APPENDIX F:
HISTORIC DATA TABLES –
2013 TO 2017 (ON CD)

Table 6
Summary of Surface Water Analytical Results
Clarington Transformer Station
Hydro One Networks Inc.

Sample Location			SW2										
Sample Date			13-Dec-13	7-May-14	14-Aug-14	2-Oct-14	13-Apr-15	6-Oct-15	14-Apr-16	25-Apr-17	25-Apr-17	18-Oct-17	18-Oct-17
Sample ID			CLARS1213TWS-160960745-20131213-JK5	SW2-13	SW2-13	WG-160900764-20141002-JK12	WS-160900764-20150413-RD102	WS-160900764-2015106-RD102	WS-160900764-20160414-AM03	WS-160900764-20170425-KR-102	WS-160900764-20170425-KR-103	WS-160900764-20171018-RD101	WS-160900764-20171018-RD102
Sampling Company			STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC
Laboratory			MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX
Laboratory Work Order			B3L6734	B475198	B4E7836	B4I4507	B565881	B5K3284	B674686	B783705	B783705	B7N2060	B7N2060
Laboratory Sample ID			UH4005	VV0988	XD5724	XV9126	ACK468	BCP436	CER846	EGX442	EGX443	FJE561	FJE562
Sample Type	Units	PWQO									Field Duplicate		Field Duplicate
General Chemistry													
Acidity	mg/L	n/v	-	10	10	45	32	57	16	20	20	12	9.2
Alkalinity, Bicarbonate (as CaCO3)	mg/L	n/v	290	250	370	440	310	440	250	210	210	270	270
Alkalinity, Carbonate (as CaCO3)	mg/L	n/v	2.1	2.6	2.4	1.9	1.1	2.2	1.8	1.8	1.8	2.7	2.9
Alkalinity, Total (as CaCO3)	mg/L	$_{s16}$[A]	290	260	380	440	310	440	250	210	210	270	270
Ammonia (as N)	mg/L	n/v	0.23	0.11	0.10	0.13	0.54	<0.050	0.13	<0.050	<0.050	<0.050	<0.050
Chloride	mg/L	n/v	14	11	8	11	21	12	21	29	29	15	15
Cyanide (Free)	µg/L	5[A]	-	<2	<2	<2	<2	<2	<2	<1	<1	<1	<1
Electrical Conductivity, Lab	µmhos/cm	n/v	650	540	770	840	680	900	600	830	830	890	890
Fluoride	mg/L	n/v	-	<0.10	<0.10	<0.10	0.11	<0.10	0.10	0.30	0.31	0.36	0.38
Hardness (as CaCO3)	mg/L	n/v	380	300	410	500	380	490	320	370	370	490	490
Langelier Index (at 20 C)	none	n/v	1.03	1.06	1.11	1.10	0.749	1.16	0.916	0.881	0.864	1.17	1.21
Langelier Index (at 4 C)	none	n/v	0.779	0.814	0.865	0.851	0.501	0.907	0.667	0.633	0.617	0.924	0.961
Nitrate (as N)	mg/L	n/v	0.41	0.41	0.55	<0.10	0.56	<0.10	1.07	1.32	1.36	0.68	0.70
Nitrate + Nitrite (as N)	mg/L	n/v	0.41	0.41	0.55	<0.10	0.633	<0.10	1.07	-	-	0.68	0.7
Nitrite (as N)	mg/L	n/v	<0.010	<0.010	<0.010	<0.010	0.073	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Orthophosphate(as P)	mg/L	n/v	<0.010	<0.010	<0.010	<0.010	<0.01	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
pH	S.U.	6.5-8.5[A]	7.88	8.04	7.83	7.67	7.58	7.73	7.89	7.96	7.97	8.02	8.07
Phosphorus, Total	mg/L	0.03$_{s4}$[C]	**9.2**[C]	0.011	**0.037**[C]	**0.19**[C]	**0.062**[C]	0.015	0.020	0.005	0.004	<0.004	0.004
Saturation pH (at 20 C)	none	n/v	6.85	6.98	6.72	6.57	6.83	6.58	6.98	7.08	7.10	6.85	6.86
Saturation pH (at 4 C)	none	n/v	7.10	7.23	6.97	6.82	7.08	6.83	7.22	7.33	7.35	7.10	7.10
Sulfate	mg/L	n/v	30	19	34	34	22	48	36	160	160	210	210
Total Dissolved Solids	mg/L	n/v	-	318	486	496	-	546	350	522	694	560	565
Total Organic Carbon	mg/L	n/v	54	3.8	4.1	7.7	11	3.8	4.1	2.7	2.7	2.7	2.9
Total Suspended Solids	mg/L	n/v	-	<10	34	150	<10	<10	13	<10	<10	<10	<10
Turbidity, Lab	NTU	n/v	27	<0.2	21	6.4	2.7	2.2	1.7	0.6	0.6	0.2	0.2
Metals, Dissolved													
Calcium	µg/L	n/v	140,000	110,000	150,000	180,000	130,000	180,000	110,000	120,000	120,000	160,000	160,000
Magnesium	µg/L	n/v	8,400	7,000	9,300	12,000	11,000	12,000	8,100	18,000	18,000	24,000	24,000
Potassium	µg/L	n/v	<1,000	<1,000	<1,000	2,000	5,000	<1,000	3,000	5,000	6,000	8,000	8,000
Sodium	µg/L	n/v	3,400	3,500	3,600	4,200	5,300	5,900	8,900	31,000	31,000	20,000	19,000
Metals, Total													
Aluminum	µg/L	75[C]	**39,000**[C]	18	**940**[C]	**1,200**[C]	13	12	**200**[C]	23	25	14	18
Antimony	µg/L	20[C]	<0.50	<0.50	<0.50	<0.50	<0.5	<0.5	<0.5	<0.50	<0.50	<0.5	<0.5
Arsenic	µg/L	100[A] 5[C]	**9.2**[C]	<1.0	<1.0	1.8	<1	<1	<1	<1.0	<1.0	<1	<1
Barium	µg/L	n/v	330	26	51	97	86	58	50	53	54	71	69
Beryllium	µg/L	1,100$_{s3}$[A]	2.2	<0.50	<0.50	<0.50	<0.5	<0.5	<0.5	<0.50	<0.50	<0.5	<0.5
Boron	µg/L	200$_{a}$[C]	35	10	19	27	30	24	24	**340**[C]	**340**[C]	**460**[C]	**460**[C]
Cadmium	µg/L	0.2[A] 0.5$_{s12}$[C]	**1.7**[AC]	<0.10	<0.10	<0.10	<0.1	<0.1	<0.1	<0.10	<0.10	<0.1	<0.1
Calcium	µg/L	n/v	170,000	110,000	160,000	180,000	130,000	170,000	110,000	120,000	120,000	140,000	150,000
Chromium	µg/L	n/v	59	<5.0	<5.0	<5.0	<5	<5.0	<5	<5.0	<5.0	<5	<5
Chromium (Hexavalent)	µg/L	1[A]	-	<0.50	<0.50	<0.50	<0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Cobalt	µg/L	0.9[A]	**20**[A]	<0.50	<0.50	**1.4**[A]	0.67	<0.5	<0.5	<0.50	<0.50	<0.5	<0.5
Copper	µg/L	5[A] 5$_{s13}$[C]	**41**[AC]	<1.0	1.9	2.0	<1	<1	1	<1.0	1.1	<1	<1
Iron	µg/L	300[A]	**51,000**[A]	<100	**1,300**[A]	**4,300**[A]	**1,200**[A]	**500**[A]	250	<100	<100	<100	<100
Lead	µg/L	25$_{s14}$[A] 5$_{s15}$[C]	**56**[AC]	<0.50	1.2	1.6	<0.5	<0.5	<0.5	<0.50	<0.50	<0.5	<0.5
Magnesium	µg/L	n/v	19,000	7,200	10,000	12,000	11,000	12,000	8,200	18,000	18,000	23,000	22,000
Manganese	µg/L	n/v	3,000	19	490	2,400	940	350	22	37	36	46	46
Mercury	µg/L	0.2[A]	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Molybdenum	µg/L	40[C]	1.1	<0.50	<0.50	<0.50	0.51	<0.5	<0.5	1.5	1.4	1.7	1.7
Nickel	µg/L	25[A]	**32**[A]	<1.0	<1.0	1.7	1.5	<1	<1	2.1	1.4	<1	1.1
Phosphorus	µg/L	30$_{s4}$[C]	-	-	-	-	**120**[C]	***<100***	***<100***	***<100***	***<100***	***<100***	***<100***
Potassium	µg/L	n/v	4,100	990	910	2,200	4,600	800	2,500	5,400	5,300	6,700	6,700
Selenium	µg/L	100[A]	3.2	<2.0	<2.0	<2.0	<2	<2	<2	<2.0	<2.0	<2	<2
Silicon	µg/L	n/v	51,000	2,300	5,100	6,700	3,800	4,700	2,400	3,100	3,100	3,800	4,000
Silver	µg/L	0.1[A]	**0.38**[A]	<0.10	<0.10	<0.10	<0.1	<0.1	<0.1	<0.10	<0.10	<0.1	<0.1
Sodium	µg/L	n/v	4,400	3,000	3,700	4,300	4,900	5,600	8,400	31,000	30,000	18,000	18,000
Strontium	µg/L	n/v	340	210	310	480	520	350	310	1,700	1,600	2,700	2,700
Thallium	µg/L	0.3$_{b}$[C]	**0.43**[C]	<0.050	<0.050	<0.050	<0.05	<0.05	<0.05	<0.050	<0.050	<0.05	<0.05
Titanium	µg/L	n/v	1,900	<5.0	51	65	<5	<5.0	10	<5.0	<5.0	<5	<5
Uranium	µg/L	5$_{a}$[C]	-	-	-	-	1.3	0.85	0.88	0.98	0.96	1.1	1.1
Vanadium	µg/L	6[C]	**89**[C]	<0.50	2.3	2.5	<0.5	<0.5	0.8	0.53	0.50	<0.5	<0.5
Zinc	µg/L	30[A] 20[C]	**280**[AC]	<5.0	11	17	<5	<5.0	<5	**31**[AC]	**31**[AC]	7	7.2
Zirconium	µg/L	4$_{a}$[C]	-	-	-	-	<1	<1	<1	<1.0	<1.0	<1	<1
BTEX and Petroleum Hydrocarbons													
Benzene	µg/L	100$_{b}$[C]	<0.20	<0.20	<0.20	<0.20	<0.2	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Toluene	µg/L	0.8[C]	<0.20	<0.20	<0.20	<0.20	**1.7**[C]	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Ethylbenzene	µg/L	8[C]	<0.20	<0.20	<0.20	<0.20	<0.2	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Xylene, m & p-	µg/L	32$_{s17}$[B]	<0.40	<0.40	<0.40	<0.40	<0.2	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Xylene, o-	µg/L	40$_{b}$[C]	<0.20	<0.20	<0.20	<0.20	<0.2	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Xylenes, Total	µg/L	72$_{s10}$[B]	<0.40	<0.40	<0.40	<0.40	<0.2	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
PHC F1 (C6-C10 range)	µg/L	n/v	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
PHC F1 (C6-C10 range) minus BTEX	µg/L	n/v	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
PHC F2 (>C10-C16 range)	µg/L	n/v	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
PHC F3 (>C16-C34 range)	µg/L	n/v	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200
PHC F4 (>C34-C50 range)	µg/L	n/v	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200
Chromatogram to baseline at C50	none	n/v	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
Polychlorinated Biphenyls													
Aroclor 1016	µg/L	$_{s7}$[A]	-	-	-	-	-	-	<0.01	-	-	-	-
Aroclor 1221	µg/L	$_{s7}$[A]	-	-	-	-	-	-	<0.01	-	-	-	-
Aroclor 1232	µg/L	$_{s7}$[A]	-	-	-	-	-	-	<0.01	-	-	-	-
Aroclor 1242	µg/L	$_{s7}$[A]	-	-	-	-	<0.05	<0.05	<0.01	<0.05	<0.05	<0.05	<0.05
Aroclor 1248	µg/L	$_{s7}$[A]	-	-	-	-	<0.05	<0.05	<0.01	<0.05	<0.05	<0.05	<0.05
Aroclor 1254	µg/L	$_{s7}$[A]	-	-	-	-	<0.05	<0.05	<0.01	<0.05	<0.05	<0.05	<0.05
Aroclor 1260	µg/L	$_{s7}$[A]	-	-	-	-	<0.05	<0.05	<0.01	<0.05	<0.05	<0.05	<0.05
Aroclor 1262	µg/L	$_{s7}$[A]	-	-	-	-	-	-	<0.01	-	-	-	-
Aroclor 1268	µg/L	$_{s7}$[A]	-	-	-	-	-	-	<0.01	-	-	-	-
Polychlorinated Biphenyls (PCBs)	µg/L	0.001$_{s7}$[A]	-	-	-	-	***<0.05***	***<0.05***	***<0.01***	***<0.05***	***<0.05***	***<0.05***	***<0.05***

See notes on last page

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Sample Date			13-Dec-13	7-May-14	14-Aug-14	2-Oct-14	13-Apr-15	6-Oct-15	14-Apr-16	25-Apr-17	25-Apr-17	18-Oct-17	18-Oct-17
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Sampling Company			STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC
Laboratory			MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX
Laboratory Work Order			B3L6734	B475198	B4E7836	B4I4507	B565881	B5K3284	B674686	B783705	B783705	B7N2060	B7N2060
Laboratory Sample ID			UH4005	VV0988	XD5724	XV9126	ACK468	BCP436	CER846	EGX442	EGX443	FJE561	FJE562
Sample Type	Units	PWQO									Field Duplicate		Field Duplicate
Semi-Volatile Organic Compounds													
Phthalates													
Bis(2-Ethylhexyl)phthalate (DEHP)	µg/L	0.6[A]	-	-	-	-	***<1***	***<1***	***<1***	***4[A]***	***3[A]***	***<1***	***<1***
Diethyl Phthalate	µg/L	n/v	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dimethyl Phthalate	µg/L	n/v	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Polycyclic Aromatic Hydrocarbons													
Acenaphthene	µg/L	n/v	-	-	-	-	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Acenaphthylene	µg/L	n/v	-	-	-	-	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Anthracene	µg/L	0.0008_a[C]	-	-	-	-	***<0.05***	***<0.05***	***<0.05***	***<0.05***	***<0.05***	***<0.05***	***<0.05***
Benzo(a)anthracene	µg/L	0.0004_a[C]	-	-	-	-	***<0.05***	***<0.05***	***<0.05***	***<0.05***	***<0.05***	***<0.05***	***<0.05***
Benzo(a)pyrene	µg/L	n/v	-	-	-	-	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Benzo(b/j)fluoranthene	µg/L	n/v	-	-	-	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(g,h,i)perylene	µg/L	0.00002_a[C]	-	-	-	-	***<0.05***	***<0.05***	***<0.05***	***<0.05***	***<0.05***	***<0.05***	***<0.05***
Benzo(k)fluoranthene	µg/L	0.0002_a[C]	-	-	-	-	***<0.05***	***<0.05***	***<0.05***	***<0.05***	***<0.05***	***<0.05***	***<0.05***
Chrysene	µg/L	0.0001_a[C]	-	-	-	-	***<0.05***	***<0.05***	***<0.05***	***<0.05***	***<0.05***	***<0.05***	***<0.05***
Dibenzo(a,h)anthracene	µg/L	0.002_a[C]	-	-	-	-	***<0.1***	***<0.1***	***<0.1***	***<0.1***	***<0.1***	***<0.1***	***<0.1***
Fluoranthene	µg/L	0.0008_a[C]	-	-	-	-	***<0.2***	***<0.2***	***<0.2***	***<0.2***	***<0.2***	***<0.2***	***<0.2***
Fluorene	µg/L	0.2_a[C]	-	-	-	-	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Indeno(1,2,3-cd)pyrene	µg/L	n/v	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Methylnaphthalene (Total)	µg/L	n/v	-	-	-	-	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28
Methylnaphthalene, 1-	µg/L	2_b[C]	-	-	-	-	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Methylnaphthalene, 2-	µg/L	2_b[C]	-	-	-	-	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Naphthalene	µg/L	7_a[C]	-	-	-	-	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Phenanthrene	µg/L	0.03_a[C]	-	-	-	-	***<0.1***	***<0.1***	***<0.1***	***<0.1***	***<0.1***	***<0.1***	***<0.1***
Pyrene	µg/L	n/v	-	-	-	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Remaining Semi-Volatile Organic Compounds													
Biphenyl, 1,1'- (Biphenyl)	µg/L	0.2_a[C]	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Bis(2-Chloroethyl)ether	µg/L	200_a[C]	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Bis(2-Chloroisopropyl)ether	µg/L	n/v	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Chloroaniline, 4-	µg/L	n/v	-	-	-	-	<1	<1	<1	<1	<1	<1	<1
Chlorophenol, 2- (ortho-Chlorophenol)	µg/L	n/v	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dichlorobenzidine, 3,3'-	µg/L	0.6_a[C]	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Dichlorophenol, 2,4-	µg/L	n/v	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dimethylphenol, 2,4-	µg/L	10_b[C]	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Dinitrophenol, 2,4-	µg/L	n/v	-	-	-	-	<2	<2	<2	<2	<2	<2	<2
Dinitrotoluene, 2,4-	µg/L	4[C]	-	-	-	-	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Dinitrotoluene, 2,6-	µg/L	6[C]	-	-	-	-	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Pentachlorophenol	µg/L	0.5[A]	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Phenol	µg/L	5_b[C]	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Trichlorobenzene, 1,2,4-	µg/L	0.5[A]	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Trichlorophenol, 2,4,5-	µg/L	n/v	-	-	-	-	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Trichlorophenol, 2,4,6-	µg/L	n/v	-	-	-	-	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Volatile Organic Compounds													
Acetone	µg/L	n/v	-	-	-	-	30	<10	<10	<10	<10	<10	<10
Bromodichloromethane	µg/L	200_a[C]	-	-	-	-	<0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Bromoform (Tribromomethane)	µg/L	60_a[C]	-	-	-	-	<1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromomethane (Methyl bromide)	µg/L	0.9_a[C]	-	-	-	-	<0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Carbon Tetrachloride (Tetrachloromethane)	µg/L	n/v	-	-	-	-	<0.2	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Chlorobenzene (Monochlorobenzene)	µg/L	15[A]	-	-	-	-	<0.2	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Chloroform (Trichloromethane)	µg/L	n/v	-	-	-	-	<0.2	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Dibromochloromethane	µg/L	40_a[C]	-	-	-	-	<0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Dichlorobenzene, 1,2-	µg/L	2.5[A]	-	-	-	-	<0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Dichlorobenzene, 1,3-	µg/L	2.5[A]	-	-	-	-	<0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Dichlorobenzene, 1,4-	µg/L	4[A]	-	-	-	-	<0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Dichlorodifluoromethane (Freon 12)	µg/L	n/v	-	-	-	-	<1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Dichloroethane, 1,1-	µg/L	200[C]	-	-	-	-	<0.2	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Dichloroethane, 1,2-	µg/L	100[C]	-	-	-	-	<0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Dichloroethene, 1,1-	µg/L	40[C]	-	-	-	-	<0.2	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Dichloroethene, cis-1,2-	µg/L	200[C]	-	-	-	-	<0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Dichloroethene, trans-1,2-	µg/L	n/v	-	-	-	-	<0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Dichloropropane, 1,2-	µg/L	0.7_a[C]	-	-	-	-	<0.2	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Dichloropropene, 1,3- (sum of isomers cis + trans)	µg/L	n/v	-	-	-	-	<0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Dichloropropene, cis-1,3-	µg/L	n/v	-	-	-	-	<0.3	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
Dichloropropene, trans-1,3-	µg/L	7_a[C]	-	-	-	-	<0.4	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40
Dichloropropene, cis-1,3-	µg/L	n/v	-	-	-	-	<0.3	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
Dichloropropene, trans-1,3-	µg/L	7_a[C]	-	-	-	-	<0.4	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40
Ethylene Dibromide (Dibromoethane, 1,2-)	µg/L	5_a[C]	-	-	-	-	<0.2	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Hexane (n-Hexane)	µg/L	n/v	-	-	-	-	<1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Methyl Ethyl Ketone (MEK) (2-Butanone)	µg/L	400_a[C]	-	-	-	-	<10	<10	<10	<10	<10	<10	<10
Methyl Isobutyl Ketone (MIBK)	µg/L	n/v	-	-	-	-	<5	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Methyl tert-butyl ether (MTBE)	µg/L	200_a[C]	-	-	-	-	<0.5	<0.50	<0.50	<0.50	<0.50	<0.50	0.62
Methylene Chloride (Dichloromethane)	µg/L	100_a[C]	-	-	-	-	<2	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Styrene	µg/L	4_b[C]	-	-	-	-	<0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Tetrachloroethane, 1,1,1,2-	µg/L	20_a[C]	-	-	-	-	<0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Tetrachloroethane, 1,1,2,2-	µg/L	70[C]	-	-	-	-	<0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Tetrachloroethene (PCE)	µg/L	50[C]	-	-	-	-	<0.2	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Trichloroethane, 1,1,1-	µg/L	10_a[C]	-	-	-	-	<0.2	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Trichloroethane, 1,1,2-	µg/L	800[C]	-	-	-	-	<0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Trichloroethene (TCE)	µg/L	20[C]	-	-	-	-	<0.2	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Trichlorofluoromethane (Freon 11)	µg/L	n/v	-	-	-	-	<0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Vinyl Chloride	µg/L	600_a[C]	-	-	-	-	<0.2	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20

See notes on last page

Table 6
Summary of Surface Water Analytical Results
Clarington Transformer Station
Hydro One Networks Inc.

Sample Location			SW3								
Sample Date			7-May-14	7-May-14	14-Aug-14	14-Aug-14	1-Oct-14	1-Oct-14	13-Apr-15	6-Oct-15	6-Oct-15
Sample ID			SW3-13	SW3-13 DUP	SW3-13	SW3-13DUP	WG-160900764-20141001-JK3	WG-160900764-20141001-JK4	WS-160900764-20150413-RD101	WS-160900764-2015106-RD100	WS-160900764-2015106-RD101
Sampling Company			STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC
Laboratory			MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX
Laboratory Work Order			B475198	B475198	B4E7836	B4E7836	B4I4507	B4I4507	B565881	B5K3284	B5K3284
Laboratory Sample ID			VV0989	VV0990	XD5723	XD5725	XV9124	XV9125	ACK467	BCP434	BCP435
Sample Type	Units	PWQO		Field Duplicate		Field Duplicate		Field Duplicate			
General Chemistry											
Acidity	mg/L	n/v	<10	<10	29	115	23	20	12	32	32
Alkalinity, Bicarbonate (as CaCO3)	mg/L	n/v	230	230	300	290	340	350	270	370	370
Alkalinity, Carbonate (as CaCO3)	mg/L	n/v	4.4	4.5	3.9	3.6	3.0	3.1	1.5	2.5	2.5
Alkalinity, Total (as CaCO3)	mg/L	$_{s16}$[A]	230	230	310	290	350	350	270	370	370
Ammonia (as N)	mg/L	n/v	0.14	0.060	<0.050	0.053	<0.050	<0.050	0.19	0.064	0.093
Chloride	mg/L	n/v	14	13	16	17	12	12	18	14	15
Cyanide (Free)	µg/L	5[A]	<2	<2	<2	<2	<2	<2	<2	<2	<2
Electrical Conductivity, Lab	µmhos/cm	n/v	520	520	680	660	700	710	600	840	840
Fluoride	mg/L	n/v	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.1	<0.10	<0.10
Hardness (as CaCO3)	mg/L	n/v	280	280	360	340	420	430	340	460	470
Langelier Index (at 20 C)	none	n/v	1.26	1.28	1.28	1.22	1.24	1.26	0.842	1.17	1.18
Langelier Index (at 4 C)	none	n/v	1.01	1.03	1.03	0.967	0.990	1.01	0.593	0.919	0.928
Nitrate (as N)	mg/L	n/v	3.11	3.10	2.39	2.33	0.98	0.94	1.94	<0.10	<0.10
Nitrate + Nitrite (as N)	mg/L	n/v	3.11	3.1	2.39	2.33	0.98	0.94	1.952	<0.10	<0.10
Nitrite (as N)	mg/L	n/v	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	0.012	<0.010	<0.010
Orthophosphate(as P)	mg/L	n/v	<0.010	<0.010	0.013	<0.010	0.013	<0.010	<0.01	<0.010	<0.010
pH	S.U.	6.5-8.5[A]	8.32	8.32	8.14	8.12	7.97	7.98	7.77	7.85	7.85
Phosphorus, Total	mg/L	0.03_{s4}[C]	0.005	0.005	0.010	0.008	0.020	0.017	0.025	0.016	0.010
Saturation pH (at 20 C)	none	n/v	7.06	7.05	6.86	6.91	6.74	6.72	6.92	6.68	6.68
Saturation pH (at 4 C)	none	n/v	7.31	7.29	7.11	7.16	6.99	6.97	7.17	6.93	6.93
Sulfate	mg/L	n/v	16	16	35	33	31	31	20	74	83
Total Dissolved Solids	mg/L	n/v	300	302	458	424	422	422	-	532	542
Total Organic Carbon	mg/L	n/v	2.5	2.6	3.2	3.2	4.4	4.4	5.2	4.2	4.2
Total Suspended Solids	mg/L	n/v	<10	<10	<10	<10	<10	<10	<10	<10	<10
Turbidity, Lab	NTU	n/v	0.4	0.5	3.5	0.7	2.4	2.5	1.2	1.2	1.1
Metals, Dissolved											
Calcium	µg/L	n/v	100,000	100,000	130,000	120,000	150,000	150,000	120,000	170,000	170,000
Magnesium	µg/L	n/v	6,700	6,800	9,800	9,400	11,000	11,000	8,900	12,000	12,000
Potassium	µg/L	n/v	1,000	1,000	1,000	1,000	2,000	2,000	3,000	2,000	2,000
Sodium	µg/L	n/v	4,900	5,000	5,500	5,400	4,900	5,000	5,300	7,700	7,800
Metals, Total											
Aluminum	µg/L	75[C]	35	32	57	45	75	75	66	24	26
Antimony	µg/L	20[C]	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.5	<0.5	<0.5
Arsenic	µg/L	100[A] 5[C]	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1	<1	<1
Barium	µg/L	n/v	27	27	44	43	53	54	41	54	52
Beryllium	µg/L	$1,100_{s3}$[A]	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.5	<0.5	<0.5
Boron	µg/L	200_{a}[C]	<10	<10	16	13	15	16	15	36	31
Cadmium	µg/L	0.2[A] 0.5_{s12}[C]	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.1	<0.1	<0.1
Calcium	µg/L	n/v	110,000	100,000	130,000	130,000	150,000	150,000	110,000	160,000	160,000
Chromium	µg/L	n/v	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5	<5.0	<5.0
Chromium (Hexavalent)	µg/L	1[A]	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.5	<0.50	<0.50
Cobalt	µg/L	0.9[A]	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.5	<0.5	<0.5
Copper	µg/L	5[A] 5_{s13}[C]	<1.0	1.0	<1.0	<1.0	<1.0	<1.0	1	<1	<1
Iron	µg/L	300[A]	<100	<100	<100	<100	<100	<100	170	<100	<100
Lead	µg/L	25_{s14}[A] 5_{s15}[C]	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.5	<0.5	<0.5
Magnesium	µg/L	n/v	7,200	7,000	11,000	11,000	11,000	11,000	8,300	12,000	11,000
Manganese	µg/L	n/v	6.4	6.3	31	25	51	52	140	120	120
Mercury	µg/L	0.2[A]	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Molybdenum	µg/L	40[C]	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.5	<0.5	<0.5
Nickel	µg/L	25[A]	<1.0	<1.0	<1.0	<1.0	<1.0	1.0	<1	<1	<1
Phosphorus	µg/L	30_{s4}[C]	-	-	-	-	-	-	***<100***	***<100***	***<100***
Potassium	µg/L	n/v	1,000	1,000	1,300	1,200	1,900	1,900	2,200	1,800	1,700
Selenium	µg/L	100[A]	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2	<2	<2
Silicon	µg/L	n/v	3,100	3,000	4,900	4,800	6,500	6,500	3,300	4,500	4,500
Silver	µg/L	0.1[A]	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.1	<0.1	<0.1
Sodium	µg/L	n/v	4,600	4,500	5,700	5,900	4,600	4,900	4,600	7,400	7,100
Strontium	µg/L	n/v	190	190	290	280	320	310	260	380	370
Thallium	µg/L	0.3_{b}[C]	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.05	<0.05	<0.05
Titanium	µg/L	n/v	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	5.2	<5.0	<5.0
Uranium	µg/L	5_{a}[C]	-	-	-	-	-	-	0.79	0.83	0.85
Vanadium	µg/L	6[C]	<0.50	<0.50	0.63	0.55	<0.50	0.55	<0.5	<0.5	<0.5
Zinc	µg/L	30[A] 20[C]	<5.0	<5.0	17	20	**24[C]**	**28[C]**	<5	19	20
Zirconium	µg/L	4_{a}[C]	-	-	-	-	-	-	<1	<1	<1
BTEX and Petroleum Hydrocarbons											
Benzene	µg/L	100_{b}[C]	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.2	<0.20	<0.20
Toluene	µg/L	0.8[C]	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.2	<0.20	<0.20
Ethylbenzene	µg/L	8[C]	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.2	<0.20	<0.20
Xylene, m & p-	µg/L	32_{s17}[B]	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.2	<0.20	<0.20
Xylene, o-	µg/L	40_{b}[C]	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.2	<0.20	<0.20
Xylenes, Total	µg/L	72_{s10}[B]	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.2	<0.20	<0.20
PHC F1 (C6-C10 range)	µg/L	n/v	<25	<25	<25	<25	<25	<25	<25	<25	<25
PHC F1 (C6-C10 range) minus BTEX	µg/L	n/v	<25	<25	<25	<25	<25	<25	<25	<25	<25
PHC F2 (>C10-C16 range)	µg/L	n/v	<100	<100	<100	<100	<100	<100	<100	<100	<100
PHC F3 (>C16-C34 range)	µg/L	n/v	<200	<200	<200	<200	<200	<200	<200	<200	<200
PHC F4 (>C34-C50 range)	µg/L	n/v	<200	<200	<200	<200	<200	<200	<200	<200	<200
Chromatogram to baseline at C50	none	n/v	YES	YES	YES	YES	YES	YES	YES	YES	YES
Polychlorinated Biphenyls											
Aroclor 1016	µg/L	$_{s7}$[A]	-	-	-	-	-	-	-	-	-
Aroclor 1221	µg/L	$_{s7}$[A]	-	-	-	-	-	-	-	-	-
Aroclor 1232	µg/L	$_{s7}$[A]	-	-	-	-	-	-	-	-	-
Aroclor 1242	µg/L	$_{s7}$[A]	-	-	-	-	-	-	<0.05	<0.05	<0.05
Aroclor 1248	µg/L	$_{s7}$[A]	-	-	-	-	-	-	<0.05	<0.05	<0.05
Aroclor 1254	µg/L	$_{s7}$[A]	-	-	-	-	-	-	<0.05	<0.05	<0.05
Aroclor 1260	µg/L	$_{s7}$[A]	-	-	-	-	-	-	<0.05	<0.05	<0.05
Aroclor 1262	µg/L	$_{s7}$[A]	-	-	-	-	-	-	-	-	-
Aroclor 1268	µg/L	$_{s7}$[A]	-	-	-	-	-	-	-	-	-
Polychlorinated Biphenyls (PCBs)	µg/L	0.001_{s7}[A]	-	-	-	-	-	-	***<0.05***	***<0.05***	***<0.05***

See notes on last page

Table 6
Summary of Surface Water Analytical Results
Clarington Transformer Station
Hydro One Networks Inc.

Sample Location			SW3								
Sample Date			7-May-14	7-May-14	14-Aug-14	14-Aug-14	1-Oct-14	1-Oct-14	13-Apr-15	6-Oct-15	6-Oct-15
Sample ID			SW3-13	SW3-13 DUP	SW3-13	SW3-13DUP	WG-160900764-20141001-JK3	WG-160900764-20141001-JK4	WS-160900764-20150413-RD101	WS-160900764-2015106-RD100	WS-160900764-2015106-RD101
Sampling Company			STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC
Laboratory			MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX
Laboratory Work Order			B475198	B475198	B4E7836	B4E7836	B4I4507	B4I4507	B565881	B5K3284	B5K3284
Laboratory Sample ID			VV0989	VV0990	XD5723	XD5725	XV9124	XV9125	ACK467	BCP434	BCP435
Sample Type	Units	PWQO		Field Duplicate		Field Duplicate		Field Duplicate			
Semi-Volatile Organic Compounds											
Phthalates											
Bis(2-Ethylhexyl)phthalate (DEHP)	µg/L	0.6[A]	-	-	-	-	-	-	***<1***	***<1***	***<1***
Diethyl Phthalate	µg/L	n/v	-	-	-	-	-	-	<0.1	<0.1	<0.1
Dimethyl Phthalate	µg/L	n/v	-	-	-	-	-	-	<0.1	<0.1	<0.1
Polycyclic Aromatic Hydrocarbons											
Acenaphthene	µg/L	n/v	-	-	-	-	-	-	<0.2	<0.2	<0.2
Acenaphthylene	µg/L	n/v	-	-	-	-	-	-	<0.2	<0.2	<0.2
Anthracene	µg/L	0.0008$_a$[C]	-	-	-	-	-	-	***<0.05***	***<0.05***	***<0.05***
Benzo(a)anthracene	µg/L	0.0004$_a$[C]	-	-	-	-	-	-	***<0.05***	***<0.05***	***<0.05***
Benzo(a)pyrene	µg/L	n/v	-	-	-	-	-	-	<0.01	<0.01	<0.01
Benzo(b/j)fluoranthene	µg/L	n/v	-	-	-	-	-	-	<0.05	<0.05	<0.05
Benzo(g,h,i)perylene	µg/L	0.00002$_a$[C]	-	-	-	-	-	-	***<0.05***	***<0.05***	***<0.05***
Benzo(k)fluoranthene	µg/L	0.0002$_a$[C]	-	-	-	-	-	-	***<0.05***	***<0.05***	***<0.05***
Chrysene	µg/L	0.0001$_a$[C]	-	-	-	-	-	-	***<0.05***	***<0.05***	***<0.05***
Dibenzo(a,h)anthracene	µg/L	0.002$_a$[C]	-	-	-	-	-	-	***<0.1***	***<0.1***	***<0.1***
Fluoranthene	µg/L	0.0008$_a$[C]	-	-	-	-	-	-	***<0.2***	***<0.2***	***<0.2***
Fluorene	µg/L	0.2$_a$[C]	-	-	-	-	-	-	<0.2	<0.2	<0.2
Indeno(1,2,3-cd)pyrene	µg/L	n/v	-	-	-	-	-	-	<0.1	<0.1	<0.1
Methylnaphthalene (Total)	µg/L	n/v	-	-	-	-	-	-	<0.28	<0.28	<0.28
Methylnaphthalene, 1-	µg/L	2$_b$[C]	-	-	-	-	-	-	<0.2	<0.2	<0.2
Methylnaphthalene, 2-	µg/L	2$_b$[C]	-	-	-	-	-	-	<0.2	<0.2	<0.2
Naphthalene	µg/L	7$_a$[C]	-	-	-	-	-	-	<0.2	<0.2	<0.2
Phenanthrene	µg/L	0.03$_a$[C]	-	-	-	-	-	-	***<0.1***	***<0.1***	***<0.1***
Pyrene	µg/L	n/v	-	-	-	-	-	-	<0.05	<0.05	<0.05
Remaining Semi-Volatile Organic Compounds											
Biphenyl, 1,1'- (Biphenyl)	µg/L	0.2$_a$[C]	-	-	-	-	-	-	<0.1	<0.1	<0.1
Bis(2-Chloroethyl)ether	µg/L	200$_a$[C]	-	-	-	-	-	-	<0.5	<0.5	<0.5
Bis(2-Chloroisopropyl)ether	µg/L	n/v	-	-	-	-	-	-	<0.5	<0.5	<0.5
Chloroaniline, 4-	µg/L	n/v	-	-	-	-	-	-	<1	<1	<1
Chlorophenol, 2- (ortho-Chlorophenol)	µg/L	n/v	-	-	-	-	-	-	<0.1	<0.1	<0.1
Dichlorobenzidine, 3,3'-	µg/L	0.6$_a$[C]	-	-	-	-	-	-	<0.5	<0.5	<0.5
Dichlorophenol, 2,4-	µg/L	n/v	-	-	-	-	-	-	<0.1	<0.1	<0.1
Dimethylphenol, 2,4-	µg/L	10$_b$[C]	-	-	-	-	-	-	<0.5	<0.5	<0.5
Dinitrophenol, 2,4-	µg/L	n/v	-	-	-	-	-	-	<2	<2	<2
Dinitrotoluene, 2,4-	µg/L	4[C]	-	-	-	-	-	-	<0.3	<0.3	<0.3
Dinitrotoluene, 2,6-	µg/L	6[C]	-	-	-	-	-	-	<0.3	<0.3	<0.3
Pentachlorophenol	µg/L	0.5[A]	-	-	-	-	-	-	<0.1	<0.1	<0.1
Phenol	µg/L	5$_b$[C]	-	-	-	-	-	-	<0.5	<0.5	<0.5
Trichlorobenzene, 1,2,4-	µg/L	0.5[A]	-	-	-	-	-	-	<0.1	<0.1	<0.1
Trichlorophenol, 2,4,5-	µg/L	n/v	-	-	-	-	-	-	<0.2	<0.2	<0.2
Trichlorophenol, 2,4,6-	µg/L	n/v	-	-	-	-	-	-	<0.2	<0.2	<0.2
Volatile Organic Compounds											
Acetone	µg/L	n/v	-	-	-	-	-	-	16	<10	<10
Bromodichloromethane	µg/L	200$_a$[C]	-	-	-	-	-	-	<0.5	<0.50	<0.50
Bromoform (Tribromomethane)	µg/L	60$_a$[C]	-	-	-	-	-	-	<1	<1.0	<1.0
Bromomethane (Methyl bromide)	µg/L	0.9$_a$[C]	-	-	-	-	-	-	<0.5	<0.50	<0.50
Carbon Tetrachloride (Tetrachloromethane)	µg/L	n/v	-	-	-	-	-	-	<0.2	<0.20	<0.20
Chlorobenzene (Monochlorobenzene)	µg/L	15[A]	-	-	-	-	-	-	<0.2	<0.20	<0.20
Chloroform (Trichloromethane)	µg/L	n/v	-	-	-	-	-	-	<0.2	<0.20	<0.20
Dibromochloromethane	µg/L	40$_a$[C]	-	-	-	-	-	-	<0.5	<0.50	<0.50
Dichlorobenzene, 1,2-	µg/L	2.5[A]	-	-	-	-	-	-	<0.5	<0.50	<0.50
Dichlorobenzene, 1,3-	µg/L	2.5[A]	-	-	-	-	-	-	<0.5	<0.50	<0.50
Dichlorobenzene, 1,4-	µg/L	4[A]	-	-	-	-	-	-	<0.5	<0.50	<0.50
Dichlorodifluoromethane (Freon 12)	µg/L	n/v	-	-	-	-	-	-	<1	<1.0	<1.0
Dichloroethane, 1,1-	µg/L	200[C]	-	-	-	-	-	-	<0.2	<0.20	<0.20
Dichloroethane, 1,2-	µg/L	100[C]	-	-	-	-	-	-	<0.5	<0.50	<0.50
Dichloroethene, 1,1-	µg/L	40[C]	-	-	-	-	-	-	<0.2	<0.20	<0.20
Dichloroethene, cis-1,2-	µg/L	200[C]	-	-	-	-	-	-	<0.5	<0.50	<0.50
Dichloroethene, trans-1,2-	µg/L	n/v	-	-	-	-	-	-	<0.5	<0.50	<0.50
Dichloropropane, 1,2-	µg/L	0.7$_a$[C]	-	-	-	-	-	-	<0.2	<0.20	<0.20
Dichloropropene, 1,3- (sum of isomers cis + trans)	µg/L	n/v	-	-	-	-	-	-	<0.5	<0.50	<0.50
Dichloropropene, cis-1,3-	µg/L	n/v	-	-	-	-	-	-	<0.3	<0.30	<0.30
Dichloropropene, trans-1,3-	µg/L	7$_a$[C]	-	-	-	-	-	-	<0.4	<0.40	<0.40
Dichloropropene, cis-1,3-	µg/L	n/v	-	-	-	-	-	-	<0.3	<0.30	<0.30
Dichloropropene, trans-1,3-	µg/L	7$_a$[C]	-	-	-	-	-	-	<0.4	<0.40	<0.40
Ethylene Dibromide (Dibromoethane, 1,2-)	µg/L	5$_a$[C]	-	-	-	-	-	-	<0.2	<0.20	<0.20
Hexane (n-Hexane)	µg/L	n/v	-	-	-	-	-	-	<1	<1.0	<1.0
Methyl Ethyl Ketone (MEK) (2-Butanone)	µg/L	400$_a$[C]	-	-	-	-	-	-	<10	<10	<10
Methyl Isobutyl Ketone (MIBK)	µg/L	n/v	-	-	-	-	-	-	<5	<5.0	<5.0
Methyl tert-butyl ether (MTBE)	µg/L	200$_a$[C]	-	-	-	-	-	-	<0.5	<0.50	<0.50
Methylene Chloride (Dichloromethane)	µg/L	100$_a$[C]	-	-	-	-	-	-	<2	<2.0	<2.0
Styrene	µg/L	4$_b$[C]	-	-	-	-	-	-	<0.5	<0.50	<0.50
Tetrachloroethane, 1,1,1,2-	µg/L	20$_a$[C]	-	-	-	-	-	-	<0.5	<0.50	<0.50
Tetrachloroethane, 1,1,2,2-	µg/L	70[C]	-	-	-	-	-	-	<0.5	<0.50	<0.50
Tetrachloroethene (PCE)	µg/L	50[C]	-	-	-	-	-	-	<0.2	<0.20	<0.20
Trichloroethane, 1,1,1-	µg/L	10$_a$[C]	-	-	-	-	-	-	<0.2	<0.20	<0.20
Trichloroethane, 1,1,2-	µg/L	800[C]	-	-	-	-	-	-	<0.5	<0.50	<0.50
Trichloroethene (TCE)	µg/L	20[C]	-	-	-	-	-	-	<0.2	<0.20	<0.20
Trichlorofluoromethane (Freon 11)	µg/L	n/v	-	-	-	-	-	-	<0.5	<0.50	<0.50
Vinyl Chloride	µg/L	600$_a$[C]	-	-	-	-	-	-	<0.2	<0.20	<0.20

See notes on last page

Table 6
Summary of Surface Water Analytical Results
Clarington Transformer Station
Hydro One Networks Inc.

Sample Location			SW3					SW4	
Sample Date			14-Apr-16	3-Nov-16	3-Nov-16	25-Apr-17	18-Oct-17	13-Apr-15	13-Apr-16
Sample ID			WS-160900764-20160414-AM02	WS-160900764-20161103-AM001	WS-160900764-20161103-AM002	WS-160900764-20170425-KR-101	WS-160900764-20171018-RD103	WS-160900764-20150413-RD100	WS-160900764-20160413-AM01
Sampling Company			STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC
Laboratory			MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX
Laboratory Work Order			B674686	B6N9272	B6N9272	B783705	B7N2060	B565881	B674089
Laboratory Sample ID			CER845	DJQ261	DJQ262	EGX441	FJE563	ACK466	CEO697
Sample Type	Units	PWQO			Field Duplicate				
General Chemistry									
Acidity	mg/L	n/v	10	10	12	11	9.0	14	15
Alkalinity, Bicarbonate (as CaCO3)	mg/L	n/v	220	120	120	220	320	230	260
Alkalinity, Carbonate (as CaCO3)	mg/L	n/v	2.3	<1.0	<1.0	2.6	4.8	<1	2.6
Alkalinity, Total (as CaCO3)	mg/L	$_{s16}$[A]	230	120	120	220	330	230	260
Ammonia (as N)	mg/L	n/v	<0.050	<0.050	<0.050	<0.050	<0.050	0.24	<0.050
Chloride	mg/L	n/v	32	46	46	21	19	48	41
Cyanide (Free)	µg/L	5[A]	<2	<1	<1	<1	<1	<2	<2
Electrical Conductivity, Lab	µmhos/cm	n/v	640	1,400	1,400	630	820	840	700
Fluoride	mg/L	n/v	0.12	0.61	0.60	0.12	0.20	0.21	<0.10
Hardness (as CaCO3)	mg/L	n/v	320	590	580	300	470	410	360
Langelier Index (at 20 C)	none	n/v	1.01	0.611	0.603	1.04	1.45	0.625	1.09
Langelier Index (at 4 C)	none	n/v	0.760	0.365	0.357	0.787	1.20	0.377	0.844
Nitrate (as N)	mg/L	n/v	4.58	2.67	2.63	1.91	3.55	1.71	0.74
Nitrate + Nitrite (as N)	mg/L	n/v	4.58	2.67	2.641	-	3.55	1.725	0.74
Nitrite (as N)	mg/L	n/v	<0.010	<0.010	0.011	<0.010	<0.010	0.015	<0.010
Orthophosphate(as P)	mg/L	n/v	<0.010	<0.010	<0.010	<0.010	<0.010	<0.01	<0.010
pH	S.U.	6.5-8.5[A]	8.04	7.79	7.80	8.11	8.20	7.60	8.02
Phosphorus, Total	mg/L	0.03$_{s4}$[C]	0.022	**0.033**[C]	**0.033**[C]	0.012	<0.004	**0.031**[C]	**0.063**[C]
Saturation pH (at 20 C)	none	n/v	7.03	7.18	7.19	7.07	6.75	6.98	6.93
Saturation pH (at 4 C)	none	n/v	7.28	7.43	7.44	7.32	6.99	7.23	7.18
Sulfate	mg/L	n/v	41	470	460	63	98	110	39
Total Dissolved Solids	mg/L	n/v	344	956	982	376	500	-	408
Total Organic Carbon	mg/L	n/v	3.4	3.8	3.8	3.1	2.9	11	3.2
Total Suspended Solids	mg/L	n/v	13	21	18	<10	<10	<10	29
Turbidity, Lab	NTU	n/v	8.6	10	5.2	0.5	0.3	2.3	13
Metals, Dissolved									
Calcium	µg/L	n/v	110,000	190,000	180,000	110,000	160,000	130,000	120,000
Magnesium	µg/L	n/v	8,800	32,000	31,000	9,500	16,000	17,000	12,000
Potassium	µg/L	n/v	2,000	12,000	12,000	2,000	4,000	8,000	2,000
Sodium	µg/L	n/v	16,000	95,000	94,000	15,000	16,000	27,000	18,000
Metals, Total									
Aluminum	µg/L	75[C]	**190**[C]	**440**[C]	**410**[C]	**110**[C]	16	**130**[C]	**680**[C]
Antimony	µg/L	20[C]	<0.5	<0.5	<0.5	<0.50	<0.5	<0.5	<0.5
Arsenic	µg/L	100[A] 5[C]	<1	<1	<1	<1.0	<1	<1	<1
Barium	µg/L	n/v	37	79	72	34	53	54	61
Beryllium	µg/L	1,100$_{s3}$[A]	<0.5	<0.5	<0.5	<0.50	<0.5	<0.5	<0.5
Boron	µg/L	200$_{a}$[C]	35	**710**[C]	**680**[C]	100	190	110	28
Cadmium	µg/L	0.2[A] 0.5$_{s12}$[C]	<0.1	<0.1	<0.1	<0.10	<0.1	<0.1	<0.1
Calcium	µg/L	n/v	110,000	170,000	170,000	100,000	140,000	120,000	120,000
Chromium	µg/L	n/v	<5	<5	<5	<5.0	<5	<5	<5
Chromium (Hexavalent)	µg/L	1[A]	0.68	<0.50	<0.50	<0.50	<0.50	<0.5	<0.50
Cobalt	µg/L	0.9[A]	<0.5	<0.5	<0.5	<0.50	<0.5	<0.5	<0.5
Copper	µg/L	5[A] 5$_{s13}$[C]	<1	<1	1	<1.0	**1.1**[C]	1.5	1.3
Iron	µg/L	300[A]	250	**490**[A]	**480**[A]	130	<100	190	**830**[A]
Lead	µg/L	25$_{s14}$[A] 5$_{s15}$[C]	<0.5	<0.5	<0.5	<0.50	<0.5	<0.5	0.92
Magnesium	µg/L	n/v	8,800	31,000	30,000	9,600	15,000	16,000	12,000
Manganese	µg/L	n/v	44	73	70	32	34	100	53
Mercury	µg/L	0.2[A]	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Molybdenum	µg/L	40[C]	0.52	3.7	3.6	0.53	0.85	1.2	<0.5
Nickel	µg/L	25[A]	<1	1.1	1.2	<1.0	<1	2	<1
Phosphorus	µg/L	30$_{s4}$[C]	***<100***	***<100***	***<100***	***<100***	***<100***	**120**[C]	***<100***
Potassium	µg/L	n/v	1,500	11,000	11,000	2,100	3,100	7,300	2,000
Selenium	µg/L	100[A]	<2	<2	<2	<2.0	<2	<2	<2
Silicon	µg/L	n/v	3,300	3,000	2,900	3,100	4,700	3,600	4,200
Silver	µg/L	0.1[A]	<0.1	<0.1	<0.1	<0.10	<0.1	<0.1	<0.1
Sodium	µg/L	n/v	15,000	86,000	83,000	15,000	14,000	24,000	16,000
Strontium	µg/L	n/v	270	3,000	2,900	530	1,100	1,100	400
Thallium	µg/L	0.3$_{b}$[C]	<0.05	<0.05	<0.05	<0.050	<0.05	<0.05	<0.05
Titanium	µg/L	n/v	9.5	18	20	5.6	<5	7.9	40
Uranium	µg/L	5$_{a}$[C]	0.64	0.75	0.72	0.58	0.85	1	0.61
Vanadium	µg/L	6[C]	0.76	1.2	1.2	0.79	<0.5	0.63	1.6
Zinc	µg/L	30[A] 20[C]	<5	11	13	8.5	6.4	<5	11
Zirconium	µg/L	4$_{a}$[C]	<1	<1	<1	<1.0	<1	<1	<1
BTEX and Petroleum Hydrocarbons									
Benzene	µg/L	100$_{b}$[C]	<0.20	<0.20	<0.20	<0.20	<0.20	<0.2	<0.20
Toluene	µg/L	0.8[C]	<0.20	<0.20	<0.20	<0.20	<0.20	<0.2	<0.20
Ethylbenzene	µg/L	8[C]	<0.20	<0.20	<0.20	<0.20	<0.20	<0.2	<0.20
Xylene, m & p-	µg/L	32$_{s17}$[B]	<0.20	<0.20	<0.20	<0.20	<0.20	<0.2	<0.20
Xylene, o-	µg/L	40$_{b}$[C]	<0.20	<0.20	<0.20	<0.20	<0.20	<0.2	<0.20
Xylenes, Total	µg/L	72$_{s10}$[B]	<0.20	<0.20	<0.20	<0.20	<0.20	<0.2	<0.20
PHC F1 (C6-C10 range)	µg/L	n/v	<25	<25	<25	<25	<25	<25	<25
PHC F1 (C6-C10 range) minus BTEX	µg/L	n/v	<25	<25	<25	<25	<25	<25	<25
PHC F2 (>C10-C16 range)	µg/L	n/v	<100	<100	<100	<100	<100	<100	<100
PHC F3 (>C16-C34 range)	µg/L	n/v	<200	<200	<200	<200	<200	<200	<200
PHC F4 (>C34-C50 range)	µg/L	n/v	<200	<200	<200	<200	<200	<200	<200
Chromatogram to baseline at C50	none	n/v	YES	YES	YES	YES	YES	YES	YES
Polychlorinated Biphenyls									
Aroclor 1016	µg/L	$_{s7}$[A]	<0.01	-	-	-	-	-	<0.01
Aroclor 1221	µg/L	$_{s7}$[A]	<0.01	-	-	-	-	-	<0.01
Aroclor 1232	µg/L	$_{s7}$[A]	<0.01	-	-	-	-	-	<0.01
Aroclor 1242	µg/L	$_{s7}$[A]	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01
Aroclor 1248	µg/L	$_{s7}$[A]	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01
Aroclor 1254	µg/L	$_{s7}$[A]	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01
Aroclor 1260	µg/L	$_{s7}$[A]	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01
Aroclor 1262	µg/L	$_{s7}$[A]	<0.01	-	-	-	-	-	<0.01
Aroclor 1268	µg/L	$_{s7}$[A]	<0.01	-	-	-	-	-	<0.01
Polychlorinated Biphenyls (PCBs)	µg/L	0.001$_{s7}$[A]	***<0.01***	***<0.05***	***<0.05***	***<0.05***	***<0.05***	***<0.05***	***<0.01***

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Clarington Transformer Station
Hydro One Networks Inc.

Sample Location			SW3					SW4	
Sample Date			14-Apr-16	3-Nov-16	3-Nov-16	25-Apr-17	18-Oct-17	13-Apr-15	13-Apr-16
Sample ID			WS-160900764-20160414-AM02	WS-160900764-20161103-AM001	WS-160900764-20161103-AM002	WS-160900764-20170425-KR-101	WS-160900764-20171018-RD103	WS-160900764-20150413-RD100	WS-160900764-20160413-AM01
Sampling Company			STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC
Laboratory			MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX
Laboratory Work Order			B674686	B6N9272	B6N9272	B783705	B7N2060	B565881	B674089
Laboratory Sample ID			CER845	DJQ261	DJQ262	EGX441	FJE563	ACK466	CEO697
Sample Type	Units	PWQO			Field Duplicate				
Semi-Volatile Organic Compounds									
Phthalates									
Bis(2-Ethylhexyl)phthalate (DEHP)	µg/L	0.6[A]	***<1***	***<1***	***<1***	**2[A]**	***<1***	***<1***	***<1***
Diethyl Phthalate	µg/L	n/v	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dimethyl Phthalate	µg/L	n/v	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Polycyclic Aromatic Hydrocarbons									
Acenaphthene	µg/L	n/v	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Acenaphthylene	µg/L	n/v	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Anthracene	µg/L	0.0008_a[C]	***<0.05***	***<0.05***	***<0.05***	***<0.05***	***<0.05***	***<0.05***	***<0.05***
Benzo(a)anthracene	µg/L	0.0004_a[C]	***<0.05***	***<0.05***	***<0.05***	***<0.05***	***<0.05***	***<0.05***	***<0.05***
Benzo(a)pyrene	µg/L	n/v	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.01
Benzo(b/j)fluoranthene	µg/L	n/v	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(g,h,i)perylene	µg/L	0.00002_a[C]	***<0.05***	***<0.05***	***<0.05***	***<0.05***	***<0.05***	***<0.05***	***<0.05***
Benzo(k)fluoranthene	µg/L	0.0002_a[C]	***<0.05***	***<0.05***	***<0.05***	***<0.05***	***<0.05***	***<0.05***	***<0.05***
Chrysene	µg/L	0.0001_a[C]	***<0.05***	***<0.05***	***<0.05***	***<0.05***	***<0.05***	***<0.05***	***<0.05***
Dibenzo(a,h)anthracene	µg/L	0.002_a[C]	***<0.1***	***<0.1***	***<0.1***	***<0.1***	***<0.1***	***<0.1***	***<0.1***
Fluoranthene	µg/L	0.0008_a[C]	***<0.2***	***<0.2***	***<0.2***	***<0.2***	***<0.2***	***<0.2***	***<0.2***
Fluorene	µg/L	0.2_a[C]	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Indeno(1,2,3-cd)pyrene	µg/L	n/v	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Methylnaphthalene (Total)	µg/L	n/v	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28
Methylnaphthalene, 1-	µg/L	2_b[C]	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Methylnaphthalene, 2-	µg/L	2_b[C]	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Naphthalene	µg/L	7_a[C]	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Phenanthrene	µg/L	0.03_a[C]	***<0.1***	***<0.1***	***<0.1***	***<0.1***	***<0.1***	***<0.1***	***<0.1***
Pyrene	µg/L	n/v	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Remaining Semi-Volatile Organic Compounds									
Biphenyl, 1,1'- (Biphenyl)	µg/L	0.2_a[C]	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Bis(2-Chloroethyl)ether	µg/L	200_a[C]	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Bis(2-Chloroisopropyl)ether	µg/L	n/v	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Chloroaniline, 4-	µg/L	n/v	<1	<1	<1	<1	<1	<1	<1
Chlorophenol, 2- (ortho-Chlorophenol)	µg/L	n/v	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dichlorobenzidine, 3,3'-	µg/L	0.6_a[C]	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Dichlorophenol, 2,4-	µg/L	n/v	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dimethylphenol, 2,4-	µg/L	10_b[C]	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Dinitrophenol, 2,4-	µg/L	n/v	<2	<2	<2	<2	<2	<2	<2
Dinitrotoluene, 2,4-	µg/L	4[C]	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Dinitrotoluene, 2,6-	µg/L	6[C]	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Pentachlorophenol	µg/L	0.5[A]	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Phenol	µg/L	5_b[C]	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Trichlorobenzene, 1,2,4-	µg/L	0.5[A]	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Trichlorophenol, 2,4,5-	µg/L	n/v	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Trichlorophenol, 2,4,6-	µg/L	n/v	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Volatile Organic Compounds									
Acetone	µg/L	n/v	<10	<10	<10	<10	<10	49	<10
Bromodichloromethane	µg/L	200_a[C]	<0.50	<0.50	<0.50	<0.50	<0.50	<0.5	<0.50
Bromoform (Tribromomethane)	µg/L	60_a[C]	<1.0	<1.0	<1.0	<1.0	<1.0	<1	<1.0
Bromomethane (Methyl bromide)	µg/L	0.9_a[C]	<0.50	<0.50	<0.50	<0.50	<0.50	<0.5	<0.50
Carbon Tetrachloride (Tetrachloromethane)	µg/L	n/v	<0.20	<0.20	<0.20	<0.20	<0.20	<0.2	<0.20
Chlorobenzene (Monochlorobenzene)	µg/L	15[A]	<0.20	<0.20	<0.20	<0.20	<0.20	<0.2	<0.20
Chloroform (Trichloromethane)	µg/L	n/v	<0.20	<0.20	<0.20	<0.20	<0.20	<0.2	<0.20
Dibromochloromethane	µg/L	40_a[C]	<0.50	<0.50	<0.50	<0.50	<0.50	<0.5	<0.50
Dichlorobenzene, 1,2-	µg/L	2.5[A]	<0.50	<0.50	<0.50	<0.50	<0.50	<0.5	<0.50
Dichlorobenzene, 1,3-	µg/L	2.5[A]	<0.50	<0.50	<0.50	<0.50	<0.50	<0.5	<0.50
Dichlorobenzene, 1,4-	µg/L	4[A]	<0.50	<0.50	<0.50	<0.50	<0.50	<0.5	<0.50
Dichlorodifluoromethane (Freon 12)	µg/L	n/v	<1.0	<1.0	<1.0	<1.0	<1.0	<1	<1.0
Dichloroethane, 1,1-	µg/L	200[C]	<0.20	<0.20	<0.20	<0.20	<0.20	<0.2	<0.20
Dichloroethane, 1,2-	µg/L	100[C]	<0.50	<0.50	<0.50	<0.50	<0.50	<0.5	<0.50
Dichloroethene, 1,1-	µg/L	40[C]	<0.20	<0.20	<0.20	<0.20	<0.20	<0.2	<0.20
Dichloroethene, cis-1,2-	µg/L	200[C]	<0.50	<0.50	<0.50	<0.50	<0.50	<0.5	<0.50
Dichloroethene, trans-1,2-	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.50	<0.5	<0.50
Dichloropropane, 1,2-	µg/L	0.7_a[C]	<0.20	<0.20	<0.20	<0.20	<0.20	<0.2	<0.20
Dichloropropene, 1,3- (sum of isomers cis + trans)	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.50	<0.5	<0.50
Dichloropropene, cis-1,3-	µg/L	n/v	<0.30	<0.30	<0.30	<0.30	<0.30	<0.3	<0.30
Dichloropropene, trans-1,3-	µg/L	7_a[C]	<0.40	<0.40	<0.40	<0.40	<0.40	<0.4	<0.40
Ethylene Dibromide (Dibromoethane, 1,2-)	µg/L	5_a[C]	<0.20	<0.20	<0.20	<0.20	<0.20	<0.2	<0.20
Hexane (n-Hexane)	µg/L	n/v	<1.0	<1.0	<1.0	<1.0	<1.0	<1	<1.0
Methyl Ethyl Ketone (MEK) (2-Butanone)	µg/L	400_a[C]	<10	<10	<10	<10	<10	<10	<10
Methyl Isobutyl Ketone (MIBK)	µg/L	n/v	<5.0	<5.0	<5.0	<5.0	<5.0	<5	<5.0
Methyl tert-butyl ether (MTBE)	µg/L	200_a[C]	<0.50	<0.50	<0.50	<0.50	<0.50	<0.5	<0.50
Methylene Chloride (Dichloromethane)	µg/L	100_a[C]	<2.0	<2.0	<2.0	<2.0	<2.0	<2	<2.0
Styrene	µg/L	4_b[C]	<0.50	<0.50	<0.50	<0.50	<0.50	<0.5	<0.50
Tetrachloroethane, 1,1,1,2-	µg/L	20_a[C]	<0.50	<0.50	<0.50	<0.50	<0.50	<0.5	<0.50
Tetrachloroethane, 1,1,2,2-	µg/L	70[C]	<0.50	<0.50	<0.50	<0.50	<0.50	<0.5	<0.50
Tetrachloroethene (PCE)	µg/L	50[C]	<0.20	<0.20	<0.20	<0.20	<0.20	<0.2	<0.20
Trichloroethane, 1,1,1-	µg/L	10_a[C]	<0.20	<0.20	<0.20	<0.20	<0.20	<0.2	<0.20
Trichloroethane, 1,1,2-	µg/L	800[C]	<0.50	<0.50	<0.50	<0.50	<0.50	<0.5	<0.50
Trichloroethene (TCE)	µg/L	20[C]	<0.20	<0.20	<0.20	<0.20	<0.20	<0.2	<0.20
Trichlorofluoromethane (Freon 11)	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.50	<0.5	<0.50
Vinyl Chloride	µg/L	600_a[C]	<0.20	<0.20	<0.20	<0.20	<0.20	<0.2	<0.20

See notes on last page

Table 6
Summary of Surface Water Analytical Results
Clarington Transformer Station
Hydro One Networks Inc.

Notes:

PWQO	Provincial Water Quality Objectives of the Ministry of Environment and Energy (MOEE, 1999)
A	PWQO Table 2
B	PWQO Table 2 - Calculated
C	PWQO Table 2 - Interim
6.5[A]	Concentration exceeds the indicated standard.
15.2	Measured concentration did not exceed the indicated standard.
<0.50	Laboratory reporting limit was greater than the applicable standard.
<0.03	Analyte was not detected at a concentration greater than the laboratory reporting limit.
n/v	No standard/guideline value.
-	Parameter not analyzed / not available.
a	This Interim PWQO was set for emergency purposes based on the best information readily available. Employ due caution when applying this value.
b	This Interim PWQO is currently under development. The value is subject to change upon publication by MOE.
s3	The PWQO for beryllium is hardness dependent. If hardness <75 mg/L than PWQO is 0.011 mg/L. For hardness > 75 mg/L, PWQO is 1.1 mg/L.
s4	Applies to Phosphorus, total. PWQO is 0.03 mg/L for rivers and streams, 0.02 mg/L for lakes, and 0.01 mg/L for lakes naturally below this value.
s7	Standard is applicable to total PCBs, and the individual Aroclors should be added for comparison.
s10	The PWQO value for Total Xylenes is 72 ug/L, which is the sum of the PWQOs for the isomers.
s12	The interim PWQO for cadmium is hardness dependent. If hardness <100 mg/L than PWQO is 0.0001 mg/L. For hardness >100 mg/L, PWQO is 0.0005 mg/L.
s13	The interim PWQO for copper is hardness dependent. If hardness <20 mg/L than PWQO is 0.001 mg/L. For hardness >20 mg/L, PWQO is 0.005 mg/L.
s14	PWQO for lead is alkalinity dependent. For alkalinity <20 mg/L, PWQO is 0.005 mg/L. For alkalinity between 20-40 mg/L, PWQO is 0.01 mg/L. For alkalinity between 40-80 mg/L, PWQO is 0.02 mg/L. For alkalinity >80 mg/L, PWQO is 0.025 mg/L.
s15	Interim PWQO for lead is hardness dependent. For hardness <30 mg/L, interim PWQO is 0.001 mg/L. For hardness between 30-80 mg/L, interim PWQO is 0.003 mg/L. For hardness >80 mg/L, interim PWQO is 0.005 mg/L.
s16	Alkalinity should not be decreased by more than 25% of the natural concentration.
s17	The laboratory is unable to distinguish the m- and p-Xylene isomers, therefore the PWQO standards for m-Xylene (2 ug/L) and p-Xylene (30 ug/L) have been summed to apply to m&p-Xylenes.

Table 7
Summary of Groundwater Analytical Results - Monitoring Wells
Clarington Transformer Station
Hydro One Networks Inc.

Sample Location				MW1-13-D															
Sample Date				13-Dec-13	19-Mar-14	7-May-14	15-Aug-14	1-Oct-14	20-Nov-14	20-Nov-14	20-Nov-14	20-Nov-14	26-Nov-14	26-Nov-14	8-Apr-15	8-Apr-15	7-Oct-15	7-Oct-15	7-Oct-15	7-Oct-15
Sample ID				CLARS1213TWG-160960745-20131213-JK2	MW1-13-D	MW1-13-D	MW1-13-D	WG-160900764-20141001-JK8	WG-160900764-20141120-CD04	WG-160900764-20141120-CD06	WG-160900764-20141120-CD04A	WG-160900764-20141120-CD06A	WG-160900764-20141126 RD03	WG-160900764-20141126 RD03A	WG-160900764-20150408-RD05	WG-160900764-20150408-RD05A	WG-160900764-20151007-RD13	WG-160900764-20151007-RD14	WG-160900764-20151007-RD13A	WG-160900764-20151007-RD14A
Sampling Company				STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC
Laboratory				MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX
Laboratory Work Order				B3L6734	B443695	B475182	B4E7727	B4I4645	B4M0745	B4M0745	B4M0745	B4M0745	B4M4069	B4M4069	B561683	B561683	B5K5143	B5K5143	B5K5143	B5K5143
Laboratory Sample ID				UH4002	VG2316	VV0843	XD5198	XV9682	YO3446	YO3564	YO3447	YO3565	YP9573	YP9574	ABP947	ABP948	BCZ965	BCZ967	BCZ966	BCZ969
Filtered				Lab Filtered SVOC	Lab Filtered SVOC	Lab Filtered SVOC	Lab Filtered SVOC	Lab Filtered SVOC	Lab Filtered SVOC	Lab Filtered SVOC	Lab Filtered SVOC	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Field Filtered Metals	Lab Filtered SVOC	Lab Filtered SVOC
Sample Type	Units	ODWS	Ontario SCS							Field Duplicate		Field Duplicate						Field Duplicate		Field Duplicate
General Chemistry																				
Acidity	mg/L	n/v	n/v	-	<10	<10	<10	<10	-	-	-	-	-	-	<10	-	<10	<10	-	-
Alkalinity, Bicarbonate (as CaCO3)	mg/L	n/v	n/v	220	200	180	180	190	-	-	-	-	180	-	180	-	180	180	-	-
Alkalinity, Carbonate (as CaCO3)	mg/L	n/v	n/v	1.5	2.2	2.9	2.5	2.6	-	-	-	-	2.6	-	2.1	-	1.5	1.7	-	-
Alkalinity, Total (as CaCO3)	mg/L	30-500[E]	n/v	220	200	190	180	190	-	-	-	-	190	-	190	-	180	180	-	-
Ammonia (as N)	mg/L	n/v	n/v	0.26	1.2	0.20	0.18	0.17	-	-	-	-	0.097	-	0.073	-	0.059	0.068	-	-
Anion Sum	meq/L	n/v	n/v	5.88	4.91	4.63	4.59	4.87	-	-	-	-	4.70	-	4.59	-	4.52	4.63	-	-
Cation Sum	meq/L	n/v	n/v	5.83	4.33	55.6	4.44	4.47	-	-	-	-	4.75	-	4.59	-	4.68	4.70	-	-
Chloride	mg/L	250[D]	790[G] 790[H]	20	14	13	14	15	-	-	-	-	15	-	13	-	13	14	-	-
Cyanide (Free)	µg/L	200[C]	52[G] 52[H]	-	<2	<2	<2	<2	-	-	-	-	-	-	<2	-	<2	<2	-	-
Dissolved Organic Carbon (DOC)	mg/L	5[D]	n/v	**7.9[D]**	0.87	1.2	0.74	1.0	-	-	-	-	0.94	-	0.68	-	0.54	0.55	-	-
Electrical Conductivity, Lab	µmhos/cm	n/v	n/a[GH]	570	420	400	420	420	-	-	-	-	430	-	420	-	420	420	-	-
Fluoride	mg/L	1.5_b[C]	n/v	-	0.29	0.32	0.28	0.27	-	-	-	-	-	-	0.32	-	0.27	0.27	-	-
Hardness (as CaCO3)	mg/L	80-100[E]	n/v	**260[E]**	**190[E]**	**2,700[E]**	**190[E]**	**200[E]**	-	-	-	-	**210[E]**	-	**200[E]**	-	**200[E]**	**200[E]**	-	-
Ion Balance	%	n/v	n/v	0.400	6.30	84.6	1.72	4.31	-	-	-	-	0.520	-	0.0400	-	1.80	0.750	-	-
Langelier Index (at 20 C)	none	n/v	n/v	0.642	0.357	2.08	0.410	0.411	-	-	-	-	0.458	-	0.373	-	0.227	0.266	-	-
Langelier Index (at 4 C)	none	n/v	n/v	0.393	0.107	1.83	0.161	0.162	-	-	-	-	0.208	-	0.123	-	-0.0230	0.0170	-	-
Nitrate (as N)	mg/L	10.0_d[C]	n/v	3.18	<0.10	<0.10	<0.10	<0.10	-	-	-	-	<0.10	-	<0.1	-	<0.10	<0.10	-	-
Nitrate + Nitrite (as N)	mg/L	10.0_d[C]	n/v	3.18	<0.10	<0.10	<0.10	<0.10	-	-	-	-	<0.10	-	<0.1	-	<0.10	<0.10	-	-
Nitrite (as N)	mg/L	1.0_d[C]	n/v	<0.010	<0.010	<0.010	<0.010	<0.010	-	-	-	-	<0.010	-	0.013	-	<0.010	<0.010	-	-
Orthophosphate(as P)	mg/L	n/v	n/v	<0.010	<0.010	<0.010	<0.010	<0.010	-	-	-	-	<0.010	-	<0.01	-	<0.010	<0.010	-	-
pH	S.U.	6.5-8.5[E]	n/v	7.87	8.07	8.22	8.17	8.15	-	-	-	-	8.17	-	8.08	-	7.96	7.99	-	-
Saturation pH (at 20 C)	none	n/v	n/v	7.23	7.71	6.14	7.76	7.74	-	-	-	-	7.71	-	7.71	-	7.74	7.72	-	-
Saturation pH (at 4 C)	none	n/v	n/v	7.48	7.96	6.39	8.01	7.99	-	-	-	-	7.96	-	7.96	-	7.99	7.97	-	-
Sulfate	mg/L	500_h[D]	n/v	35	24	26	28	28	-	-	-	-	26	-	24	-	25	26	-	-
Total Dissolved Solids	mg/L	500[D]	n/v	-	308	294	292	392	-	-	-	-	-	-	218	-	224	224	-	-
Total Dissolved Solids (Calculated)	mg/L	500[D]	n/v	-	-	-	-	-	-	-	-	-	250	-	250	-	240	250	-	-
Total Organic Carbon	mg/L	n/v	n/v	-	1.8	4.1	2.4	1.4	-	-	-	-	-	-	0.85	-	0.55	0.57	-	-
Total Suspended Solids	mg/L	n/v	n/v	-	610	5,000	1,500	820	290	210	-	-	44	-	240	-	<10	<10	-	-
Turbidity, Lab	NTU	5_j[D,E]	n/v	-	**220[D]**	**1,100[D]**	**710[D]**	**480[D]**	**37[D]**	**46[D]**	-	-	**65[D]**	-	**68[D]**	-	**7.0[D]**	**6.5[D]**	-	-
BTEX and Petroleum Hydrocarbons																				
Benzene	µg/L	1[C]	0.5[G] 5[H]	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	-	-	<0.20	-	<0.2	-	<0.20	<0.20	-	-
Toluene	µg/L	24[D]	24[G] 22[H]	1.3	<0.20	<0.20	0.21	0.32	<0.20	<0.20	-	-	<0.20	-	<0.2	-	<0.20	<0.20	-	-
Ethylbenzene	µg/L	2.4[D]	2.4[G] 2.4[H]	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	-	-	<0.20	-	<0.2	-	<0.20	<0.20	-	-
Xylene, m & p-	µg/L	300_{s1}[D]	[GH]	0.81	<0.23 IB	<0.20	0.22	<0.40	<0.20	<0.20	-	-	<0.20	-	<0.2	-	<0.20	<0.20	-	-
Xylene, o-	µg/L	300_{s1}[D]	[GH]	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	-	-	<0.20	-	<0.2	-	<0.20	<0.20	-	-
Xylenes, Total	µg/L	300[D]	72_{s1}[G] 300_{s1}[H]	0.81	<0.23	<0.20	0.22	<0.40	<0.20	<0.20	-	-	<0.20	-	<0.2	-	<0.20	<0.20	-	-
PHC F1 (C6-C10 range)	µg/L	n/v	[GH]	<25	<25	<25	<25	<25	-	-	-	-	-	-	<25	-	<25	<25	-	-
PHC F1 (C6-C10 range) minus BTEX	µg/L	n/v	420_{s7}[GH]	<25	<25	<25	<25	<25	-	-	-	-	-	-	<25	-	<25	<25	-	-
PHC F2 (>C10-C16 range)	µg/L	n/v	150_{s15}[GH]	<100	<100	<100	<100	<100	-	-	-	-	-	-	<100	-	<100	<100	-	-
PHC F3 (>C16-C34 range)	µg/L	n/v	500_{s8}[GH]	<200	<200	<200	<200	<200	-	-	-	-	-	-	<200	-	<200	<200	-	-
PHC F4 (>C34-C50 range)	µg/L	n/v	500_{s10}[GH]	<200	<200	<200	<200	<200	-	-	-	-	-	-	<200	-	<200	<200	-	-
Chromatogram to baseline at C50	none	n/v	n/v	YES	YES	YES	YES	YES	-	-	-	-	-	-	YES	-	YES	YES	-	-

See notes on last page

Table 7
Summary of Groundwater Analytical Results - Monitoring Wells
Clarington Transformer Station
Hydro One Networks Inc.

Sample Location				MW1-13-D															
Sample Date				13-Dec-13	19-Mar-14	7-May-14	15-Aug-14	1-Oct-14	20-Nov-14	20-Nov-14	20-Nov-14	20-Nov-14	26-Nov-14	26-Nov-14	8-Apr-15	8-Apr-15	7-Oct-15	7-Oct-15	7-Oct-15	7-Oct-15
Sample ID				CLARS1213TWG-160960745-20131213-JK2	MW1-13-D	MW1-13-D	MW1-13-D	WG-160900764-20141001-JK8	WG-160900764-20141120-CD04	WG-160900764-20141120-CD06	WG-160900764-20141120-CD04A	WG-160900764-20141120-CD06A	WG-160900764-20141126 RD03	WG-160900764-20141126 RD03A	WG-160900764-20150408-RD05	WG-160900764-20150408-RD05A	WG-160900764-20151007-RD13	WG-160900764-20151007-RD14	WG-160900764-20151007-RD13A	WG-160900764-20151007-RD14A
Sampling Company				STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC
Laboratory				MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX
Laboratory Work Order				B3L6734	B443695	B475182	B4E7727	B4I4645	B4M0745	B4M0745	B4M0745	B4M0745	B4M4069	B4M4069	B561683	B561683	B5K5143	B5K5143	B5K5143	B5K5143
Laboratory Sample ID				UH4002	VG2316	VV0843	XD5198	XV9682	YO3446	YO3564	YO3447	YO3565	YP9573	YP9574	ABP947	ABP948	BCZ965	BCZ967	BCZ966	BCZ969
Filtered				Lab Filtered SVOC	Lab Filtered SVOC	Lab Filtered SVOC	Lab Filtered SVOC	Lab Filtered SVOC	Lab Filtered SVOC	Lab Filtered SVOC	Lab Filtered SVOC	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Field Filtered Metals	Lab Filtered SVOC	Lab Filtered SVOC
Sample Type	Units	ODWS	Ontario SCS							Field Duplicate		Field Duplicate						Field Duplicate		Field Duplicate
Metals																				
Aluminum	µg/L	100[E]	n/v	<5.0	7.6	-	7.1	19	-	-	-	-	<5.0	<5.0	<5	-	<5.0	<5.0	-	-
Antimony	µg/L	6[B]	6[G] 6[H]	<0.50	<0.50	-	<0.50	<0.50	-	-	-	-	<0.50	<0.50	<0.5	-	<0.5	<0.5	-	-
Arsenic	µg/L	25[B]	25[G] 25[H]	<1.0	1.2	-	1.1	<1.0	-	-	-	-	1.4	1.1	1	-	1.1	<1	-	-
Barium	µg/L	1,000[C]	1,000[G] 1,000[H]	110	96	-	84	100	-	-	-	-	110	100	100	-	99	99	-	-
Beryllium	µg/L	n/v	4[G] 4[H]	<0.50	<0.50	-	<0.50	<0.50	-	-	-	-	<0.50	<0.50	<0.5	-	<0.5	<0.5	-	-
Boron	µg/L	5,000[B]	5,000[G] 5,000[H]	38	32	-	34	32	-	-	-	-	38	33	32	-	23	22	-	-
Cadmium	µg/L	5[C]	2.1[G] 2.1[H]	<0.10	<0.10	-	<0.10	<0.10	-	-	-	-	<0.10	<0.10	<0.1	-	<0.1	<0.1	-	-
Calcium	µg/L	n/v	n/v	71,000	25,000	-	25,000	26,000	-	-	-	-	26,000	26,000	26,000	-	25,000	26,000	-	-
Chromium	µg/L	50[C]	50[G] 50[H]	<5.0	<5.0	-	<5.0	<5.0	-	-	-	-	<5.0	<5.0	<5	-	<5.0	<5.0	-	-
Chromium (Hexavalent)	µg/L	n/v	25[G] 25[H]	-	<0.50	<0.50	<0.50	<0.50	-	-	-	-	-	-	<0.5	-	<0.50	<0.50	-	-
Cobalt	µg/L	n/v	3.8[G] 3.8[H]	<0.50	<0.50	-	<0.50	<0.50	-	-	-	-	<0.50	<0.50	<0.5	-	<0.5	<0.5	-	-
Copper	µg/L	1,000[D]	69[G] 69[H]	<1.0	<1.0	-	<1.0	<1.0	-	-	-	-	<1.0	<1.0	<1	-	<1	<1	-	-
Iron	µg/L	300[D]	n/v	<100	<100	-	<100	<100	-	-	-	-	250	<100	220	-	250	250	-	-
Lead	µg/L	10[C]	10[G] 10[H]	<0.50	<0.50	-	<0.50	<0.50	-	-	-	-	<0.50	<0.50	<0.5	-	<0.5	<0.5	-	-
Magnesium	µg/L	n/v	n/v	20,000	30,000	-	32,000	32,000	-	-	-	-	34,000	34,000	33,000	-	34,000	34,000	-	-
Manganese	µg/L	50[D]	n/v	5.8	4.6	-	3.5	3.2	-	-	-	-	6.6	6.1	6.5	-	5.8	5.9	-	-
Mercury	µg/L	1[C]	0.1[G] 0.29[H]	-	<0.1	<0.1	<0.10	<0.1	-	-	-	-	-	-	<0.1	-	<0.1	<0.1	-	-
Molybdenum	µg/L	n/v	70[G] 70[H]	10	2.2	-	2.0	2.1	-	-	-	-	1.8	1.7	1.9	-	2.1	1.9	-	-
Nickel	µg/L	n/v	100[G] 100[H]	<1.0	<1.0	-	<1.0	<1.0	-	-	-	-	<1.0	<1.0	<1	-	<1	<1	-	-
Phosphorus	µg/L	n/v	n/v	<100	<100	-	<100	<100	-	-	-	-	<100	<100	<100	-	<100	<100	-	-
Potassium	µg/L	n/v	n/v	6,400	2,800	-	2,700	2,500	-	-	-	-	2,700	2,700	2,700	-	2,500	2,500	-	-
Selenium	µg/L	10[C]	10[G] 10[H]	<2.0	<2.0	-	<2.0	<2.0	-	-	-	-	<2.0	<2.0	<2	-	<2	<2	-	-
Silicon	µg/L	n/v	n/v	6,200	10,000	-	10,000	11,000	-	-	-	-	11,000	11,000	11,000	-	10,000	11,000	-	-
Silver	µg/L	n/v	1.2[G] 1.2[H]	<0.10	<0.10	-	<0.10	<0.10	-	-	-	-	<0.10	<0.10	<0.1	-	<0.1	<0.1	-	-
Sodium	µg/L	200,000$_g$[D] 20,000$_g$[F]	490,000[G] 490,000[H]	9,200	11,000	-	12,000	10,000	-	-	-	-	12,000	11,000	12,000	-	12,000	12,000	-	-
Strontium	µg/L	n/v	n/v	470	570	-	580	590	-	-	-	-	640	640	600	-	600	600	-	-
Thallium	µg/L	n/v	2[G] 2[H]	<0.050	<0.050	-	<0.050	<0.050	-	-	-	-	<0.050	<0.050	<0.05	-	<0.05	<0.05	-	-
Titanium	µg/L	n/v	n/v	<5.0	<5.0	-	<5.0	<5.0	-	-	-	-	<5.0	<5.0	<5	-	<5.0	<5.0	-	-
Uranium	µg/L	20[C]	20[G] 20[H]	0.92	0.17	-	0.41	0.19	-	-	-	-	<0.10	<0.10	<0.1	-	<0.1	<0.1	-	-
Vanadium	µg/L	n/v	6.2[G] 6.2[H]	0.94	<0.50	-	0.87	0.55	-	-	-	-	<0.50	<0.50	<0.5	-	<0.5	<0.5	-	-
Zinc	µg/L	5,000[D]	890[G] 890[H]	<5.0	<5.0	-	<5.0	<5.0	-	-	-	-	<5.0	<5.0	<5	-	<5.0	<5.0	-	-
Zirconium	µg/L	n/v	n/v	<1.0	-	-	-	<1.0	-	-	-	-	<1.0	<1.0	<1	-	<1	<1	-	-
Polychlorinated Biphenyls																				
Aroclor 1242	µg/L	n/v	$_{s14}$[GH]	-	<0.05	<0.05	<0.05	<0.05	-	-	-	-	-	-	<0.05	-	<0.05	<0.05	-	-
Aroclor 1248	µg/L	n/v	$_{s14}$[GH]	-	<0.05	<0.05	<0.05	<0.05	-	-	-	-	-	-	<0.05	-	<0.05	<0.05	-	-
Aroclor 1254	µg/L	n/v	$_{s14}$[GH]	-	<0.05	<0.05	<0.05	<0.05	-	-	-	-	-	-	<0.05	-	<0.05	<0.05	-	-
Aroclor 1260	µg/L	n/v	$_{s14}$[GH]	-	<0.05	<0.05	<0.05	<0.05	-	-	-	-	-	-	<0.05	-	<0.05	<0.05	-	-
Polychlorinated Biphenyls (PCBs)	µg/L	3[B]	0.2$_{s14}$[GH]	-	<0.05	<0.05	<0.05	<0.05	-	-	-	-	-	-	<0.05	-	<0.05	<0.05	-	-

See notes on last page

Table 7
Summary of Groundwater Analytical Results - Monitoring Wells
Clarington Transformer Station
Hydro One Networks Inc.

Sample Location				MW1-13-D															
Sample Date				13-Dec-13	19-Mar-14	7-May-14	15-Aug-14	1-Oct-14	20-Nov-14	20-Nov-14	20-Nov-14	20-Nov-14	26-Nov-14	26-Nov-14	8-Apr-15	8-Apr-15	7-Oct-15	7-Oct-15	7-Oct-15	7-Oct-15
Sample ID				CLARS1213TWG-160960745-20131213-JK2	MW1-13-D	MW1-13-D	MW1-13-D	WG-160900764-20141001-JK8	WG-160900764-20141120-CD04	WG-160900764-20141120-CD06	WG-160900764-20141120-CD04A	WG-160900764-20141120-CD06A	WG-160900764-20141126 RD03	WG-160900764-20141126 RD03A	WG-160900764-20150408-RD05	WG-160900764-20150408-RD05A	WG-160900764-20151007-RD13	WG-160900764-20151007-RD14	WG-160900764-20151007-RD13A	WG-160900764-20151007-RD14A
Sampling Company				STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC
Laboratory				MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX
Laboratory Work Order				B3L6734	B443695	B475182	B4E7727	B4I4645	B4M0745	B4M0745	B4M0745	B4M0745	B4M4069	B4M4069	B561683	B561683	B5K5143	B5K5143	B5K5143	B5K5143
Laboratory Sample ID				UH4002	VG2316	VV0843	XD5198	XV9682	YO3446	YO3564	YO3447	YO3565	YP9573	YP9574	ABP947	ABP948	BCZ965	BCZ967	BCZ966	BCZ969
Filtered				Lab Filtered SVOC	Lab Filtered SVOC	Lab Filtered SVOC	Lab Filtered SVOC	Lab Filtered SVOC	Lab Filtered SVOC	Lab Filtered SVOC	Lab Filtered SVOC	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Field Filtered Metals	Lab Filtered SVOC	Lab Filtered SVOC
Sample Type	Units	ODWS	Ontario SCS							Field Duplicate		Field Duplicate						Field Duplicate		Field Duplicate
Semi-Volatile Organic Compounds																				
Phthalates																				
Bis(2-Ethylhexyl)phthalate (DEHP)	µg/L	n/v	10[G] 10[H]	-	**41[GH]**	1	4	4	2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Diethyl Phthalate	µg/L	n/v	30[G] 30[H]	-	0.1	0.1	<0.1	0.1	0.3	0.1	0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dimethyl Phthalate	µg/L	n/v	30[G] 30[H]	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Polycyclic Aromatic Hydrocarbons																				
Acenaphthene	µg/L	n/v	4.1[G] 4.1[H]	-	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Acenaphthylene	µg/L	n/v	1[G] 1[H]	-	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Anthracene	µg/L	n/v	1[G] 1[H]	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(a)anthracene	µg/L	n/v	1[G] 1[H]	-	<0.05	0.06	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(a)pyrene	µg/L	0.01[C]	0.01[G] 0.01[H]	-	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Benzo(b/j)fluoranthene	µg/L	n/v	0.1_{s2}[GH]	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(g,h,i)perylene	µg/L	n/v	0.2[G] 0.2[H]	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(k)fluoranthene	µg/L	n/v	0.1[G] 0.1[H]	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Chrysene	µg/L	n/v	0.1[G] 0.1[H]	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Dibenzo(a,h)anthracene	µg/L	n/v	0.2[G] 0.2[H]	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	µg/L	n/v	0.41[G] 0.41[H]	-	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Fluorene	µg/L	n/v	120[G] 120[H]	-	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Indeno(1,2,3-cd)pyrene	µg/L	n/v	0.2[G] 0.2[H]	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Methylnaphthalene (Total)	µg/L	n/v	3.2_{s3}[GH]	-	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28
Methylnaphthalene, 1-	µg/L	n/v	$_{s3}$[GH]	-	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Methylnaphthalene, 2-	µg/L	n/v	$_{s3}$[GH]	-	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Naphthalene	µg/L	n/v	7[G] 11[H]	-	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Phenanthrene	µg/L	n/v	1[G] 1[H]	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Pyrene	µg/L	n/v	4.1[G] 4.1[H]	-	<0.05	0.06	0.06	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Remaining Semi-Volatile Organic Compounds																				
Biphenyl, 1,1'- (Biphenyl)	µg/L	n/v	0.5[G] 0.5[H]	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Bis(2-Chloroethyl)ether	µg/L	n/v	5[G] 5[H]	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Bis(2-Chloroisopropyl)ether	µg/L	n/v	120[G] 120[H]	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Chloroaniline, 4-	µg/L	n/v	10[G] 10[H]	-	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chlorophenol, 2- (ortho-Chlorophenol)	µg/L	n/v	8.9[G] 8.9[H]	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dichlorobenzidine, 3,3'-	µg/L	n/v	0.5[G] 0.5[H]	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Dichlorophenol, 2,4-	µg/L	900[C] 0.3_t[D]	20[G] 20[H]	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dimethylphenol, 2,4-	µg/L	n/v	59[G] 59[H]	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Dinitrophenol, 2,4-	µg/L	n/v	10[G] 10[H]	-	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Dinitrotoluene, 2,4-	µg/L	n/v	5_{t13}[GH]	-	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Dinitrotoluene, 2,6-	µg/L	n/v	5_{t13}[GH]	-	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Pentachlorophenol	µg/L	60[C] 30_t[D]	30[G] 30[H]	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Phenol	µg/L	n/v	890[G] 890[H]	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Trichlorobenzene, 1,2,4-	µg/L	n/v	3[G] 70[H]	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Trichlorophenol, 2,4,5-	µg/L	n/v	8.9[G] 8.9[H]	-	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Trichlorophenol, 2,4,6-	µg/L	5[C] 2_t[D]	2[G] 2[H]	-	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2

See notes on last page

Table 7
Summary of Groundwater Analytical Results - Monitoring Wells
Clarington Transformer Station
Hydro One Networks Inc.

Sample Location				MW1-13-D															
Sample Date				13-Dec-13	19-Mar-14	7-May-14	15-Aug-14	1-Oct-14	20-Nov-14	20-Nov-14	20-Nov-14	20-Nov-14	26-Nov-14	26-Nov-14	8-Apr-15	8-Apr-15	7-Oct-15	7-Oct-15	7-Oct-15	7-Oct-15
Sample ID				CLARS1213TWG-160960745-20131213-JK2	MW1-13-D	MW1-13-D	MW1-13-D	WG-160900764-20141001-JK8	WG-160900764-20141120-CD04	WG-160900764-20141120-CD06	WG-160900764-20141120-CD04A	WG-160900764-20141120-CD06A	WG-160900764-20141126 RD03	WG-160900764-20141126 RD03A	WG-160900764-20150408-RD05	WG-160900764-20150408-RD05A	WG-160900764-20151007-RD13	WG-160900764-20151007-RD14	WG-160900764-20151007-RD13A	WG-160900764-20151007-RD14A
Sampling Company				STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC
Laboratory				MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX
Laboratory Work Order				B3L6734	B443695	B475182	B4E7727	B4I4645	B4M0745	B4M0745	B4M0745	B4M0745	B4M4069	B4M4069	B561683	B561683	B5K5143	B5K5143	B5K5143	B5K5143
Laboratory Sample ID				UH4002	VG2316	VV0843	XD5198	XV9682	YO3446	YO3564	YO3447	YO3565	YP9573	YP9574	ABP947	ABP948	BCZ965	BCZ967	BCZ966	BCZ969
Filtered				Lab Filtered SVOC	Lab Filtered SVOC	Lab Filtered SVOC	Lab Filtered SVOC	Lab Filtered SVOC	Lab Filtered SVOC	Lab Filtered SVOC	Lab Filtered SVOC	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Field Filtered Metals	Lab Filtered SVOC	Lab Filtered SVOC
Sample Type	Units	ODWS	Ontario SCS							Field Duplicate		Field Duplicate						Field Duplicate		Field Duplicate
Volatile Organic Compounds																				
Acetone	µg/L	n/v	2,700[G] 2,700[H]	-	<10	<10	<10	<10	<10	<10	-	-	<10	-	<10	-	<10	<10	-	-
Bromodichloromethane	µg/L	n/v	16[G] 16[H]	-	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-	-	<0.50	-	<0.5	-	<0.50	<0.50	-	-
Bromoform (Tribromomethane)	µg/L	n/v	5[G] 25[H]	-	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	-	-	<1.0	-	<1	-	<1.0	<1.0	-	-
Bromomethane (Methyl bromide)	µg/L	n/v	0.89[G] 0.89[H]	-	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-	-	<0.50	-	<0.5	-	<0.50	<0.50	-	-
Carbon Tetrachloride (Tetrachloromethane)	µg/L	2[C]	0.2[G] 0.79[H]	-	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	-	-	<0.20	-	<0.2	-	<0.20	<0.20	-	-
Chlorobenzene (Monochlorobenzene)	µg/L	80[C] 30$_l$[D]	30[G] 30[H]	-	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	-	-	<0.20	-	<0.2	-	<0.20	<0.20	-	-
Chloroform (Trichloromethane)	µg/L	n/v	2[G] 2.4[H]	-	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	-	-	<0.20	-	<0.2	-	<0.20	<0.20	-	-
Dibromochloromethane	µg/L	n/v	25[G] 25[H]	-	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-	-	<0.50	-	<0.5	-	<0.50	<0.50	-	-
Dichlorobenzene, 1,2-	µg/L	200[C] 3$_l$[D]	3[G] 3[H]	-	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-	-	<0.50	-	<0.5	-	<0.50	<0.50	-	-
Dichlorobenzene, 1,3-	µg/L	n/v	59[G] 59[H]	-	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-	-	<0.50	-	<0.5	-	<0.50	<0.50	-	-
Dichlorobenzene, 1,4-	µg/L	5[C] 1$_l$[D]	0.5[G] 1[H]	-	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-	-	<0.50	-	<0.5	-	<0.50	<0.50	-	-
Dichlorodifluoromethane (Freon 12)	µg/L	n/v	590[G] 590[H]	-	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	-	-	<1.0	-	<1	-	<1.0	<1.0	-	-
Dichloroethane, 1,1-	µg/L	n/v	5[G] 5[H]	-	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	-	-	<0.20	-	<0.2	-	<0.20	<0.20	-	-
Dichloroethane, 1,2-	µg/L	5[B]	0.5[G] 1.6[H]	-	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-	-	<0.50	-	<0.5	-	<0.50	<0.50	-	-
Dichloroethene, 1,1-	µg/L	14[C]	0.5[G] 1.6[H]	-	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	-	-	<0.20	-	<0.2	-	<0.20	<0.20	-	-
Dichloroethene, cis-1,2-	µg/L	n/v	1.6[G] 1.6[H]	-	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-	-	<0.50	-	<0.5	-	<0.50	<0.50	-	-
Dichloroethene, trans-1,2-	µg/L	n/v	1.6[G] 1.6[H]	-	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-	-	<0.50	-	<0.5	-	<0.50	<0.50	-	-
Dichloropropane, 1,2-	µg/L	n/v	0.58[G] 5[H]	-	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	-	-	<0.20	-	<0.2	-	<0.20	<0.20	-	-
Dichloropropene, 1,3- (sum of isomers cis + trans)	µg/L	n/v	0.5$_{s11}$[GH]	-	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-	-	<0.50	-	<0.5	-	<0.50	<0.50	-	-
Dichloropropene, cis-1,3-	µg/L	n/v	$_{s11}$[GH]	-	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	-	-	<0.30	-	<0.3	-	<0.30	<0.30	-	-
Dichloropropene, trans-1,3-	µg/L	n/v	$_{s11}$[GH]	-	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	-	-	<0.40	-	<0.4	-	<0.40	<0.40	-	-
Ethylene Dibromide (Dibromoethane, 1,2-)	µg/L	n/v	0.2[G] 0.2[H]	-	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	-	-	<0.20	-	<0.2	-	<0.20	<0.20	-	-
Hexane (n-Hexane)	µg/L	n/v	5[G] 51[H]	-	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	-	-	<1.0	-	<1	-	<1.0	<1.0	-	-
Methyl Ethyl Ketone (MEK) (2-Butanone)	µg/L	n/v	1,800[G] 1,800[H]	-	<10	<10	<10	<10	<10	<10	-	-	<10	-	<10	-	<10	<10	-	-
Methyl Isobutyl Ketone (MIBK)	µg/L	n/v	640[G] 640[H]	-	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	-	-	<5.0	-	<5	-	<5.0	<5.0	-	-
Methyl tert-butyl ether (MTBE)	µg/L	n/v	15[G] 15[H]	-	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-	-	<0.50	-	<0.5	-	<0.50	<0.50	-	-
Methylene Chloride (Dichloromethane)	µg/L	50[C]	26[G] 50[H]	-	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	-	-	<2.0	-	<2	-	<2.0	<2.0	-	-
Styrene	µg/L	n/v	5.4[G] 5.4[H]	-	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-	-	<0.50	-	<0.5	-	<0.50	<0.50	-	-
Tetrachloroethane, 1,1,1,2-	µg/L	n/v	1.1[G] 1.1[H]	-	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-	-	<0.50	-	<0.5	-	<0.50	<0.50	-	-
Tetrachloroethane, 1,1,2,2-	µg/L	n/v	0.5[G] 1[H]	-	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-	-	<0.50	-	<0.5	-	<0.50	<0.50	-	-
Tetrachloroethene (PCE)	µg/L	30[C]	0.5[G] 1.6[H]	-	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	-	-	<0.20	-	<0.2	-	<0.20	<0.20	-	-
Trichloroethane, 1,1,1-	µg/L	n/v	23[G] 200[H]	-	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	-	-	<0.20	-	<0.2	-	<0.20	<0.20	-	-
Trichloroethane, 1,1,2-	µg/L	n/v	0.5[G] 4.7[H]	-	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-	-	<0.50	-	<0.5	-	<0.50	<0.50	-	-
Trichloroethene (TCE)	µg/L	5[C]	0.5[G] 1.6[H]	-	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	-	-	<0.20	-	<0.2	-	<0.20	<0.20	-	-
Trichlorofluoromethane (Freon 11)	µg/L	n/v	150[G] 150[H]	-	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-	-	<0.50	-	<0.5	-	<0.50	<0.50	-	-
Trihalomethanes	µg/L	100$_e$[C]	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.20	<0.20	-	-
Vinyl Chloride	µg/L	1[C]	0.5[G] 0.5[H]	-	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	-	-	<0.20	-	<0.2	-	<0.20	<0.20	-	-

See notes on last page

Table 7
Summary of Groundwater Analytical Results - Monitoring Wells
Clarington Transformer Station
Hydro One Networks Inc.

Sample Location				MW1-13-D (Contd.)													
Sample Date				13-Apr-16	13-Apr-16	1-Nov-16	1-Nov-16	1-Nov-16	1-Nov-16	26-Apr-17	26-Apr-17	26-Apr-17	26-Apr-17	17-Oct-17	17-Oct-17	17-Oct-17	17-Oct-17
Sample ID				WG-160900764-20160413-AM07	WG-160900764-20160413-AM07A	WG-160900764-20161101-AM06	WG-160900764-20161101-AM07	WG-160900764-20161101-AM06A	WG-160900764-20161101-AM07A	WG-160900764-20170426-RD-11	WG-160900764-20170426-KR-13	WG-160900764-20170426-RD-11A	WG-160900764-20170426-KR-13A	WG-160900764-20171017-RD06	WG-160900764-20171017-CF7	WG-160900764-20171017-RD06A	WG-160900764-20171017-CF7A
Sampling Company				STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC
Laboratory				MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX
Laboratory Work Order				B674114	B674114	B6N7980	B6N7980	B6N7980	B6N7980	B785281	B785281	B785281	B785281	B7N0947	B7N0947	B7N0947	B7N0947
Laboratory Sample ID				CEO882	CEO883	DJK320	DJK322	DJK321	DJK323	EHF902	EHF904	EHF903	EHF905	FIY623	FIY625	FIY624	FIY626
Filtered				Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Field Filtered Metals	Lab Filtered SVOC	Lab Filtered SVOC	Field Filtered Metals	Field Filtered Metals	Lab Filtered SVOC	Lab Filtered SVOC	Field Filtered Metals	Field Filtered Metals	Lab Filtered SVOC	Lab Filtered SVOC
Sample Type	Units	ODWS	Ontario SCS				Field Duplicate		Field Duplicate		Field Duplicate		Field Duplicate		Field Duplicate		Field Duplicate
General Chemistry																	
Acidity	mg/L	n/v	n/v	<10	-	<10	<10	-	-	<10	<10	-	-	<5.0	<5.0	-	-
Alkalinity, Bicarbonate (as CaCO3)	mg/L	n/v	n/v	190	-	180	180	-	-	180	180	-	-	180	180	-	-
Alkalinity, Carbonate (as CaCO3)	mg/L	n/v	n/v	2.0	-	2.2	2.4	-	-	2.1	2.1	-	-	2.2	2.3	-	-
Alkalinity, Total (as CaCO3)	mg/L	30-500[E]	n/v	190	-	180	180	-	-	180	180	-	-	190	190	-	-
Ammonia (as N)	mg/L	n/v	n/v	0.077	-	0.074	0.069	-	-	<0.050	<0.050	-	-	0.053	<0.050	-	-
Anion Sum	meq/L	n/v	n/v	4.83	-	4.55	4.57	-	-	4.68	4.70	-	-	4.72	4.73	-	-
Cation Sum	meq/L	n/v	n/v	4.70	-	4.52	4.35	-	-	4.69	4.61	-	-	4.42	4.40	-	-
Chloride	mg/L	250[D]	790[G] 790[H]	16	-	14	14	-	-	16	16	-	-	15	16	-	-
Cyanide (Free)	µg/L	200[C]	52[G] 52[H]	<2	-	<1	<1	-	-	<1	<1	-	-	<1	<1	-	-
Dissolved Organic Carbon (DOC)	mg/L	5[D]	n/v	0.74	-	0.72	0.72	-	-	0.80	0.76	-	-	0.62	0.63	-	-
Electrical Conductivity, Lab	µmhos/cm	n/v	n/a[GH]	430	-	420	420	-	-	440	450	-	-	420	420	-	-
Fluoride	mg/L	1.5_b[C]	n/v	0.28	-	0.28	0.28	-	-	0.27	0.27	-	-	0.28	0.27	-	-
Hardness (as CaCO3)	mg/L	80-100[E]	n/v	**210[E]**	-	**200[E]**	**190[E]**	-	-	**200[E]**	**200[E]**	-	-	**190[E]**	**190[E]**	-	-
Ion Balance	%	n/v	n/v	1.41	-	0.400	2.47	-	-	0.190	0.970	-	-	3.38	3.67	-	-
Langelier Index (at 20 C)	none	n/v	n/v	0.386	-	0.370	0.379	-	-	0.380	0.386	-	-	0.377	0.410	-	-
Langelier Index (at 4 C)	none	n/v	n/v	0.136	-	0.121	0.129	-	-	0.131	0.136	-	-	0.127	0.160	-	-
Nitrate (as N)	mg/L	10.0_d[C]	n/v	<0.10	-	<0.10	<0.10	-	-	<0.10	<0.10	-	-	<0.10	<0.10	-	-
Nitrate + Nitrite (as N)	mg/L	10.0_d[C]	n/v	<0.10	-	<0.10	<0.10	-	-	<0.10	<0.10	-	-	<0.10	<0.10	-	-
Nitrite (as N)	mg/L	1.0_d[C]	n/v	<0.010	-	<0.010	<0.010	-	-	<0.010	<0.010	-	-	<0.010	<0.010	-	-
Orthophosphate(as P)	mg/L	n/v	n/v	0.010	-	<0.010	<0.010	-	-	0.010	0.012	-	-	<0.010	<0.010	-	-
pH	S.U.	6.5-8.5[E]	n/v	8.05	-	8.13	8.15	-	-	8.08	8.09	-	-	8.10	8.12	-	-
Saturation pH (at 20 C)	none	n/v	n/v	7.67	-	7.76	7.77	-	-	7.70	7.70	-	-	7.73	7.71	-	-
Saturation pH (at 4 C)	none	n/v	n/v	7.92	-	8.00	8.02	-	-	7.95	7.95	-	-	7.98	7.96	-	-
Sulfate	mg/L	500_h[D]	n/v	26	-	26	26	-	-	27	28	-	-	27	27	-	-
Total Dissolved Solids	mg/L	500[D]	n/v	188	-	250	270	-	-	260	252	-	-	225	205	-	-
Total Dissolved Solids (Calculated)	mg/L	500[D]	n/v	260	-	240	240	-	-	250	250	-	-	250	250	-	-
Total Organic Carbon	mg/L	n/v	n/v	0.77	-	1.1	1.1	-	-	0.50	0.52	-	-	0.66	0.65	-	-
Total Suspended Solids	mg/L	n/v	n/v	<10	-	<10	12	-	-	<10	<10	-	-	<10	<10	-	-
Turbidity, Lab	NTU	5_i[D,E]	n/v	4.7	-	**8.9[D]**	**8.8[D]**	-	-	1.9	2.2	-	-	2.0	1.9	-	-
BTEX and Petroleum Hydrocarbons																	
Benzene	µg/L	1[C]	0.5[G] 5[H]	<0.20	-	<0.20	<0.20	-	-	<0.20	<0.20	-	-	<0.20	<0.20	-	-
Toluene	µg/L	24[D]	24[G] 22[H]	<0.20	-	<0.20	<0.20	-	-	<0.20	<0.20	-	-	<0.20	<0.20	-	-
Ethylbenzene	µg/L	2.4[D]	2.4[G] 2.4[H]	<0.20	-	<0.20	<0.20	-	-	<0.20	<0.20	-	-	<0.20	<0.20	-	-
Xylene, m & p-	µg/L	300_{s1}[D]	$_{s1}$[GH]	<0.20	-	<0.20	<0.20	-	-	<0.20	<0.20	-	-	<0.20	<0.20	-	-
Xylene, o-	µg/L	300_{s1}[D]	$_{s1}$[GH]	<0.20	-	<0.20	<0.20	-	-	<0.20	<0.20	-	-	<0.20	<0.20	-	-
Xylenes, Total	µg/L	300[D]	72_{s1}[G] 300_{s1}[H]	<0.20	-	<0.20	<0.20	-	-	<0.20	<0.20	-	-	<0.20	<0.20	-	-
PHC F1 (C6-C10 range)	µg/L	n/v	$_{s7}$[GH]	<25	-	<25	<25	-	-	<25	<25	-	-	<25	<25	-	-
PHC F1 (C6-C10 range) minus BTEX	µg/L	n/v	420_{s7}[GH]	<25	-	<25	<25	-	-	<25	<25	-	-	<25	<25	-	-
PHC F2 (>C10-C16 range)	µg/L	n/v	150_{s15}[GH]	<100	-	<100	<100	-	-	<100	<100	-	-	<100	<100	-	-
PHC F3 (>C16-C34 range)	µg/L	n/v	500_{s8}[GH]	<200	-	<200	<200	-	-	<200	<200	-	-	<200	<200	-	-
PHC F4 (>C34-C50 range)	µg/L	n/v	500_{s10}[GH]	<200	-	<200	<200	-	-	<200	<200	-	-	<200	<200	-	-
Chromatogram to baseline at C50	none	n/v	n/v	YES	-	YES	YES	-	-	YES	YES	-	-	YES	YES	-	-

See notes on last page

Table 7
Summary of Groundwater Analytical Results - Monitoring Wells
Clarington Transformer Station
Hydro One Networks Inc.

Sample Location				MW1-13-D (Contd.)													
Sample Date				13-Apr-16	13-Apr-16	1-Nov-16	1-Nov-16	1-Nov-16	1-Nov-16	26-Apr-17	26-Apr-17	26-Apr-17	26-Apr-17	17-Oct-17	17-Oct-17	17-Oct-17	17-Oct-17
Sample ID				WG-160900764-20160413-AM07	WG-160900764-20160413-AM07A	WG-160900764-20161101-AM06	WG-160900764-20161101-AM07	WG-160900764-20161101-AM06A	WG-160900764-20161101-AM07A	WG-160900764-20170426-RD-11	WG-160900764-20170426-KR-13	WG-160900764-20170426-RD-11A	WG-160900764-20170426-KR-13A	WG-160900764-20171017-RD06	WG-160900764-20171017-CF7	WG-160900764-20171017-RD06A	WG-160900764-20171017-CF7A
Sampling Company				STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC
Laboratory				MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX
Laboratory Work Order				B674114	B674114	B6N7980	B6N7980	B6N7980	B6N7980	B785281	B785281	B785281	B785281	B7N0947	B7N0947	B7N0947	B7N0947
Laboratory Sample ID				CEO882	CEO883	DJK320	DJK322	DJK321	DJK323	EHF902	EHF904	EHF903	EHF905	FIY623	FIY625	FIY624	FIY626
Filtered				Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Field Filtered Metals	Lab Filtered SVOC	Lab Filtered SVOC	Field Filtered Metals	Field Filtered Metals	Lab Filtered SVOC	Lab Filtered SVOC	Field Filtered Metals	Field Filtered Metals	Lab Filtered SVOC	Lab Filtered SVOC
Sample Type	Units	ODWS	Ontario SCS				Field Duplicate		Field Duplicate		Field Duplicate		Field Duplicate		Field Duplicate		Field Duplicate
Metals																	
Aluminum	µg/L	100[E]	n/v	5.6	-	<5	<5	-	-	<5.0	7.8	-	-	<5	<5	-	-
Antimony	µg/L	6[B]	6[G] 6[H]	<0.5	-	<0.5	<0.5	-	-	<0.50	<0.50	-	-	<0.5	<0.5	-	-
Arsenic	µg/L	25[B]	25[G] 25[H]	1.4	-	1.2	1.2	-	-	1.3	1.3	-	-	1.3	1.5	-	-
Barium	µg/L	1,000[C]	1,000[G] 1,000[H]	110	-	100	100	-	-	110	110	-	-	110	110	-	-
Beryllium	µg/L	n/v	4[G] 4[H]	<0.5	-	<0.5	<0.5	-	-	<0.50	<0.50	-	-	<0.5	<0.5	-	-
Boron	µg/L	5,000[B]	5,000[G] 5,000[H]	36	-	29	29	-	-	32	29	-	-	31	31	-	-
Cadmium	µg/L	5[C]	2.1[G] 2.1[H]	<0.1	-	<0.1	<0.1	-	-	<0.10	<0.10	-	-	<0.1	<0.1	-	-
Calcium	µg/L	n/v	n/v	27,000	-	25,000	24,000	-	-	28,000	27,000	-	-	25,000	25,000	-	-
Chromium	µg/L	50[C]	50[G] 50[H]	<5	-	<5	<5	-	-	<5.0	<5.0	-	-	<5	<5	-	-
Chromium (Hexavalent)	µg/L	n/v	25[G] 25[H]	<0.50	-	<0.50	<0.50	-	-	<0.50	<0.50	-	-	<0.50	<0.50	-	-
Cobalt	µg/L	n/v	3.8[G] 3.8[H]	<0.5	-	<0.5	<0.5	-	-	<0.50	<0.50	-	-	<0.5	<0.5	-	-
Copper	µg/L	1,000[D]	69[G] 69[H]	<1	-	<1	<1	-	-	<1.0	<1.0	-	-	<1	<1	-	-
Iron	µg/L	300[D]	n/v	170	-	120	110	-	-	160	160	-	-	170	160	-	-
Lead	µg/L	10_c[C]	10[G] 10[H]	<0.5	-	<0.5	<0.5	-	-	<0.50	<0.50	-	-	<0.5	<0.5	-	-
Magnesium	µg/L	n/v	n/v	34,000	-	33,000	31,000	-	-	33,000	32,000	-	-	32,000	31,000	-	-
Manganese	µg/L	50[D]	n/v	6.3	-	6.5	6.1	-	-	5.9	6.2	-	-	4.7	4.7	-	-
Mercury	µg/L	1[C]	0.1[G] 0.29[H]	<0.1	-	<0.1	<0.1	-	-	<0.1	<0.1	-	-	<0.1	<0.1	-	-
Molybdenum	µg/L	n/v	70[G] 70[H]	1.9	-	1.9	1.8	-	-	1.9	1.9	-	-	1.9	1.8	-	-
Nickel	µg/L	n/v	100[G] 100[H]	<1	-	<1	<1	-	-	<1.0	<1.0	-	-	<1	<1	-	-
Phosphorus	µg/L	n/v	n/v	<100	-	<100	<100	-	-	<100	<100	-	-	<100	<100	-	-
Potassium	µg/L	n/v	n/v	2,600	-	2,500	2,500	-	-	2,600	2,600	-	-	2,400	2,400	-	-
Selenium	µg/L	10[C]	10[G] 10[H]	<2	-	<2	<2	-	-	<2.0	<2.0	-	-	<2	<2	-	-
Silicon	µg/L	n/v	n/v	10,000	-	10,000	10,000	-	-	11,000	11,000	-	-	11,000	11,000	-	-
Silver	µg/L	n/v	1.2[G] 1.2[H]	<0.1	-	<0.1	<0.1	-	-	<0.10	<0.10	-	-	<0.1	<0.1	-	-
Sodium	µg/L	$200{,}000_g$[D] $20{,}000_g$[F]	490,000[G] 490,000[H]	12,000	-	12,000	11,000	-	-	12,000	12,000	-	-	11,000	11,000	-	-
Strontium	µg/L	n/v	n/v	570	-	650	640	-	-	580	570	-	-	610	590	-	-
Thallium	µg/L	n/v	2[G] 2[H]	<0.05	-	<0.05	<0.05	-	-	<0.050	<0.050	-	-	<0.05	<0.05	-	-
Titanium	µg/L	n/v	n/v	<5	-	<5	<5	-	-	<5.0	<5.0	-	-	<5	<5	-	-
Uranium	µg/L	20[C]	20[G] 20[H]	<0.1	-	<0.1	<0.1	-	-	<0.10	<0.10	-	-	<0.1	<0.1	-	-
Vanadium	µg/L	n/v	6.2[G] 6.2[H]	0.67	-	<0.5	<0.5	-	-	<0.50	<0.50	-	-	<0.5	<0.5	-	-
Zinc	µg/L	5,000[D]	890[G] 890[H]	<5	-	<5	<5	-	-	<5.0	<5.0	-	-	<5	<5	-	-
Zirconium	µg/L	n/v	n/v	<1	-	<1	<1	-	-	<1.0	<1.0	-	-	<1	<1	-	-
Polychlorinated Biphenyls																	
Aroclor 1242	µg/L	n/v	$_{s14}$[GH]	<0.05	-	<0.05	<0.05	-	-	<0.05	<0.05	-	-	<0.05	<0.05	-	-
Aroclor 1248	µg/L	n/v	$_{s14}$[GH]	<0.05	-	<0.05	<0.05	-	-	<0.05	<0.05	-	-	<0.05	<0.05	-	-
Aroclor 1254	µg/L	n/v	$_{s14}$[GH]	<0.05	-	<0.05	<0.05	-	-	<0.05	<0.05	-	-	<0.05	<0.05	-	-
Aroclor 1260	µg/L	n/v	$_{s14}$[GH]	<0.05	-	<0.05	<0.05	-	-	<0.05	<0.05	-	-	<0.05	<0.05	-	-
Polychlorinated Biphenyls (PCBs)	µg/L	3[B]	0.2_{s14}[GH]	<0.05	-	<0.05	<0.05	-	-	<0.05	<0.05	-	-	<0.05	<0.05	-	-

See notes on last page

Table 7
Summary of Groundwater Analytical Results - Monitoring Wells
Clarington Transformer Station
Hydro One Networks Inc.

Sample Location				MW1-13-D (Contd.)													
Sample Date				13-Apr-16	13-Apr-16	1-Nov-16	1-Nov-16	1-Nov-16	1-Nov-16	26-Apr-17	26-Apr-17	26-Apr-17	26-Apr-17	17-Oct-17	17-Oct-17	17-Oct-17	17-Oct-17
Sample ID				WG-160900764-20160413-AM07	WG-160900764-20160413-AM07A	WG-160900764-20161101-AM06	WG-160900764-20161101-AM07	WG-160900764-20161101-AM06A	WG-160900764-20161101-AM07A	WG-160900764-20170426-RD-11	WG-160900764-20170426-KR-13	WG-160900764-20170426-RD-11A	WG-160900764-20170426-KR-13A	WG-160900764-20171017-RD06	WG-160900764-20171017-CF7	WG-160900764-20171017-RD06A	WG-160900764-20171017-CF7A
Sampling Company				STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC
Laboratory				MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX
Laboratory Work Order				B674114	B674114	B6N7980	B6N7980	B6N7980	B6N7980	B785281	B785281	B785281	B785281	B7N0947	B7N0947	B7N0947	B7N0947
Laboratory Sample ID				CEO882	CEO883	DJK320	DJK322	DJK321	DJK323	EHF902	EHF904	EHF903	EHF905	FIY623	FIY625	FIY624	FIY626
Filtered				Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Field Filtered Metals	Lab Filtered SVOC	Lab Filtered SVOC	Field Filtered Metals	Field Filtered Metals	Lab Filtered SVOC	Lab Filtered SVOC	Field Filtered Metals	Field Filtered Metals	Lab Filtered SVOC	Lab Filtered SVOC
Sample Type	Units	ODWS	Ontario SCS				Field Duplicate		Field Duplicate		Field Duplicate		Field Duplicate		Field Duplicate		Field Duplicate
Semi-Volatile Organic Compounds																	
Phthalates																	
Bis(2-Ethylhexyl)phthalate (DEHP)	µg/L	n/v	10[G] 10[H]	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Diethyl Phthalate	µg/L	n/v	30[G] 30[H]	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dimethyl Phthalate	µg/L	n/v	30[G] 30[H]	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Polycyclic Aromatic Hydrocarbons																	
Acenaphthene	µg/L	n/v	4.1[G] 4.1[H]	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Acenaphthylene	µg/L	n/v	1[G] 1[H]	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Anthracene	µg/L	n/v	1[G] 1[H]	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(a)anthracene	µg/L	n/v	1[G] 1[H]	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(a)pyrene	µg/L	0.01[C]	0.01[G] 0.01[H]	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Benzo(b/j)fluoranthene	µg/L	n/v	0.1_{s2}[GH]	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(g,h,i)perylene	µg/L	n/v	0.2[G] 0.2[H]	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(k)fluoranthene	µg/L	n/v	0.1[G] 0.1[H]	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Chrysene	µg/L	n/v	0.1[G] 0.1[H]	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Dibenzo(a,h)anthracene	µg/L	n/v	0.2[G] 0.2[H]	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	µg/L	n/v	0.41[G] 0.41[H]	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Fluorene	µg/L	n/v	120[G] 120[H]	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Indeno(1,2,3-cd)pyrene	µg/L	n/v	0.2[G] 0.2[H]	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Methylnaphthalene (Total)	µg/L	n/v	3.2_{s3}[GH]	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28
Methylnaphthalene, 1-	µg/L	n/v	$_{s3}$[GH]	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Methylnaphthalene, 2-	µg/L	n/v	$_{s3}$[GH]	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Naphthalene	µg/L	n/v	7[G] 11[H]	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Phenanthrene	µg/L	n/v	1[G] 1[H]	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Pyrene	µg/L	n/v	4.1[G] 4.1[H]	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Remaining Semi-Volatile Organic Compounds																	
Biphenyl, 1,1'- (Biphenyl)	µg/L	n/v	0.5[G] 0.5[H]	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Bis(2-Chloroethyl)ether	µg/L	n/v	5[G] 5[H]	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Bis(2-Chloroisopropyl)ether	µg/L	n/v	120[G] 120[H]	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Chloroaniline, 4-	µg/L	n/v	10[G] 10[H]	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chlorophenol, 2- (ortho-Chlorophenol)	µg/L	n/v	8.9[G] 8.9[H]	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dichlorobenzidine, 3,3'-	µg/L	n/v	0.5[G] 0.5[H]	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Dichlorophenol, 2,4-	µg/L	900[C] 0.3_t[D]	20[G] 20[H]	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dimethylphenol, 2,4-	µg/L	n/v	59[G] 59[H]	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Dinitrophenol, 2,4-	µg/L	n/v	10[G] 10[H]	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Dinitrotoluene, 2,4-	µg/L	n/v	5_{t13}[GH]	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Dinitrotoluene, 2,6-	µg/L	n/v	5_{t13}[GH]	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Pentachlorophenol	µg/L	60[C] 30_t[D]	30[G] 30[H]	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Phenol	µg/L	n/v	890[G] 890[H]	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Trichlorobenzene, 1,2,4-	µg/L	n/v	3[G] 70[H]	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Trichlorophenol, 2,4,5-	µg/L	n/v	8.9[G] 8.9[H]	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Trichlorophenol, 2,4,6-	µg/L	5[C] 2_t[D]	2[G] 2[H]	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2

See notes on last page

Table 7
Summary of Groundwater Analytical Results - Monitoring Wells
Clarington Transformer Station
Hydro One Networks Inc.

Sample Location				MW1-13-D (Contd.)													
Sample Date				13-Apr-16	13-Apr-16	1-Nov-16	1-Nov-16	1-Nov-16	1-Nov-16	26-Apr-17	26-Apr-17	26-Apr-17	26-Apr-17	17-Oct-17	17-Oct-17	17-Oct-17	17-Oct-17
Sample ID				WG-160900764-20160413-AM07	WG-160900764-20160413-AM07A	WG-160900764-20161101-AM06	WG-160900764-20161101-AM07	WG-160900764-20161101-AM06A	WG-160900764-20161101-AM07A	WG-160900764-20170426-RD-11	WG-160900764-20170426-KR-13	WG-160900764-20170426-RD-11A	WG-160900764-20170426-KR-13A	WG-160900764-20171017-RD06	WG-160900764-20171017-CF7	WG-160900764-20171017-RD06A	WG-160900764-20171017-CF7A
Sampling Company				STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC
Laboratory				MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX
Laboratory Work Order				B674114	B674114	B6N7980	B6N7980	B6N7980	B6N7980	B785281	B785281	B785281	B785281	B7N0947	B7N0947	B7N0947	B7N0947
Laboratory Sample ID				CEO882	CEO883	DJK320	DJK322	DJK321	DJK323	EHF902	EHF904	EHF903	EHF905	FIY623	FIY625	FIY624	FIY626
Filtered				Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Field Filtered Metals	Lab Filtered SVOC	Lab Filtered SVOC	Field Filtered Metals	Field Filtered Metals	Lab Filtered SVOC	Lab Filtered SVOC	Field Filtered Metals	Field Filtered Metals	Lab Filtered SVOC	Lab Filtered SVOC
Sample Type	Units	ODWS	Ontario SCS				Field Duplicate		Field Duplicate		Field Duplicate		Field Duplicate		Field Duplicate		Field Duplicate
Volatile Organic Compounds																	
Acetone	µg/L	n/v	2,700[G] 2,700[H]	<10	-	<10	<10	-	-	<10	<10	-	-	<10	<10	-	-
Bromodichloromethane	µg/L	n/v	16[G] 16[H]	<0.50	-	<0.50	<0.50	-	-	<0.50	<0.50	-	-	<0.50	<0.50	-	-
Bromoform (Tribromomethane)	µg/L	n/v	5[G] 25[H]	<1.0	-	<1.0	<1.0	-	-	<1.0	<1.0	-	-	<1.0	<1.0	-	-
Bromomethane (Methyl bromide)	µg/L	n/v	0.89[G] 0.89[H]	<0.50	-	<0.50	<0.50	-	-	<0.50	<0.50	-	-	<0.50	<0.50	-	-
Carbon Tetrachloride (Tetrachloromethane)	µg/L	2[C]	0.2[G] 0.79[H]	<0.20	-	<0.20	<0.20	-	-	<0.20	<0.20	-	-	<0.20	<0.20	-	-
Chlorobenzene (Monochlorobenzene)	µg/L	80[C] 30[D]	30[G] 30[H]	<0.20	-	<0.20	<0.20	-	-	<0.20	<0.20	-	-	<0.20	<0.20	-	-
Chloroform (Trichloromethane)	µg/L	n/v	2[G] 2.4[H]	<0.20	-	<0.20	<0.20	-	-	<0.20	<0.20	-	-	<0.20	<0.20	-	-
Dibromochloromethane	µg/L	n/v	25[G] 25[H]	<0.50	-	<0.50	<0.50	-	-	<0.50	<0.50	-	-	<0.50	<0.50	-	-
Dichlorobenzene, 1,2-	µg/L	200[C] 3[D]	3[G] 3[H]	<0.50	-	<0.50	<0.50	-	-	<0.50	<0.50	-	-	<0.50	<0.50	-	-
Dichlorobenzene, 1,3-	µg/L	n/v	59[G] 59[H]	<0.50	-	<0.50	<0.50	-	-	<0.50	<0.50	-	-	<0.50	<0.50	-	-
Dichlorobenzene, 1,4-	µg/L	5[C] 1[D]	0.5[G] 1[H]	<0.50	-	<0.50	<0.50	-	-	<0.50	<0.50	-	-	<0.50	<0.50	-	-
Dichlorodifluoromethane (Freon 12)	µg/L	n/v	590[G] 590[H]	<1.0	-	<1.0	<1.0	-	-	<1.0	<1.0	-	-	<1.0	<1.0	-	-
Dichloroethane, 1,1-	µg/L	n/v	5[G] 5[H]	<0.20	-	<0.20	<0.20	-	-	<0.20	<0.20	-	-	<0.20	<0.20	-	-
Dichloroethane, 1,2-	µg/L	5[B]	0.5[G] 1.6[H]	<0.50	-	<0.50	<0.50	-	-	<0.50	<0.50	-	-	<0.50	<0.50	-	-
Dichloroethene, 1,1-	µg/L	14[C]	0.5[G] 1.6[H]	<0.20	-	<0.20	<0.20	-	-	<0.20	<0.20	-	-	<0.20	<0.20	-	-
Dichloroethene, cis-1,2-	µg/L	n/v	1.6[G] 1.6[H]	<0.50	-	<0.50	<0.50	-	-	<0.50	<0.50	-	-	<0.50	<0.50	-	-
Dichloroethene, trans-1,2-	µg/L	n/v	1.6[G] 1.6[H]	<0.50	-	<0.50	<0.50	-	-	<0.50	<0.50	-	-	<0.50	<0.50	-	-
Dichloropropane, 1,2-	µg/L	n/v	0.58[G] 5[H]	<0.20	-	<0.20	<0.20	-	-	<0.20	<0.20	-	-	<0.20	<0.20	-	-
Dichloropropene, 1,3- (sum of isomers cis + trans)	µg/L	n/v	0.5[s11 GH]	<0.50	-	<0.50	<0.50	-	-	<0.50	<0.50	-	-	<0.50	<0.50	-	-
Dichloropropene, cis-1,3-	µg/L	n/v	[s11 GH]	<0.30	-	<0.30	<0.30	-	-	<0.30	<0.30	-	-	<0.30	<0.30	-	-
Dichloropropene, trans-1,3-	µg/L	n/v	[s11 GH]	<0.40	-	<0.40	<0.40	-	-	<0.40	<0.40	-	-	<0.40	<0.40	-	-
Ethylene Dibromide (Dibromoethane, 1,2-)	µg/L	n/v	0.2[G] 0.2[H]	<0.20	-	<0.20	<0.20	-	-	<0.20	<0.20	-	-	<0.20	<0.20	-	-
Hexane (n-Hexane)	µg/L	n/v	5[G] 51[H]	<1.0	-	<1.0	<1.0	-	-	<1.0	<1.0	-	-	<1.0	<1.0	-	-
Methyl Ethyl Ketone (MEK) (2-Butanone)	µg/L	n/v	1,800[G] 1,800[H]	<10	-	<10	<10	-	-	<10	<10	-	-	<10	<10	-	-
Methyl Isobutyl Ketone (MIBK)	µg/L	n/v	640[G] 640[H]	<5.0	-	<5.0	<5.0	-	-	<5.0	<5.0	-	-	<5.0	<5.0	-	-
Methyl tert-butyl ether (MTBE)	µg/L	n/v	15[G] 15[H]	<0.50	-	<0.50	<0.50	-	-	<0.50	<0.50	-	-	<0.50	<0.50	-	-
Methylene Chloride (Dichloromethane)	µg/L	50[C]	26[G] 50[H]	<2.0	-	<2.0	<2.0	-	-	<2.0	<2.0	-	-	<2.0	<2.0	-	-
Styrene	µg/L	n/v	5.4[G] 5.4[H]	<0.50	-	<0.50	<0.50	-	-	<0.50	<0.50	-	-	<0.50	<0.50	-	-
Tetrachloroethane, 1,1,1,2-	µg/L	n/v	1.1[G] 1.1[H]	<0.50	-	<0.50	<0.50	-	-	<0.50	<0.50	-	-	<0.50	<0.50	-	-
Tetrachloroethane, 1,1,2,2-	µg/L	n/v	0.5[G] 1[H]	<0.50	-	<0.50	<0.50	-	-	<0.50	<0.50	-	-	<0.50	<0.50	-	-
Tetrachloroethene (PCE)	µg/L	30[C]	0.5[G] 1.6[H]	<0.20	-	<0.20	<0.20	-	-	<0.20	<0.20	-	-	<0.20	<0.20	-	-
Trichloroethane, 1,1,1-	µg/L	n/v	23[G] 200[H]	<0.20	-	<0.20	<0.20	-	-	<0.20	<0.20	-	-	<0.20	<0.20	-	-
Trichloroethane, 1,1,2-	µg/L	n/v	0.5[G] 4.7[H]	<0.50	-	<0.50	<0.50	-	-	<0.50	<0.50	-	-	<0.50	<0.50	-	-
Trichloroethene (TCE)	µg/L	5[C]	0.5[G] 1.6[H]	<0.20	-	<0.20	<0.20	-	-	<0.20	<0.20	-	-	<0.20	<0.20	-	-
Trichlorofluoromethane (Freon 11)	µg/L	n/v	150[G] 150[H]	<0.50	-	<0.50	<0.50	-	-	<0.50	<0.50	-	-	<0.50	<0.50	-	-
Trihalomethanes	µg/L	100[e C]	n/v	-	-	-	-	-	-	-	-	-	-	<1.0	<1.0	-	-
Vinyl Chloride	µg/L	1[C]	0.5[G] 0.5[H]	<0.20	-	<0.20	<0.20	-	-	<0.20	<0.20	-	-	<0.20	<0.20	-	-

See notes on last page

Table 7
Summary of Groundwater Analytical Results - Monitoring Wells
Clarington Transformer Station
Hydro One Networks Inc.

Sample Location				MW1-13-S															
Sample Date				13-Dec-13	19-Mar-14	7-May-14	15-Aug-14	1-Oct-14	20-Nov-14	20-Nov-14	26-Nov-14	26-Nov-14	8-Apr-15	8-Apr-15	7-Oct-15	7-Oct-15	13-Apr-16	13-Apr-16	2-Nov-16	2-Nov-16
Sample ID				CLARS1213TWG-160960745-20131213-JK1	MW1-13-S	MW1-13-S	MW1-13-S	WG-160900764-20141001-JK9	WG-160900764-20141120-CD03	WG-160900764-20141120-CD03A	WG-160900764-20141126 RD04	WG-160900764-20141126 RD04A	WG-160900764-20150408-RD04	WG-160900764-20150408-RD04A	WG-160900764-20151007-RD12	WG-160900764-20151007-RD12A	WG-160900764-20160413-AM08	WG-160900764-20160413-AM08A	WG-160900764-20161102-AM13	WG-160900764-20161102-AM13A
Sampling Company				STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC
Laboratory				MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX
Laboratory Work Order				B3L6734	B443695	B475182	B4E7727	B4I4645	B4M0745	B4M0745	B4M4069	B4M4069	B561683	B561683	B5K5143	B5K5143	B674114	B674114	B6N8983	B6N8983
Laboratory Sample ID				UH4001	VG2315	VV0844	XD5197	XV9683	YO3444	YO3445	YP9575	YP9576	ABP945	ABP946	BCZ963	BCZ964	CEO884	CEO885	DJO980	DJO981
Filtered				Lab Filtered SVOC	Lab Filtered SVOC	Lab Filtered SVOC	Lab Filtered SVOC	Lab Filtered SVOC	-	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC
Sample Type	Units	ODWS	Ontario SCS																	
General Chemistry																				
Acidity	mg/L	n/v	n/v	-	26	14	15	84	-	-	-	-	11	-	13	-	18	-	20	-
Alkalinity, Bicarbonate (as CaCO3)	mg/L	n/v	n/v	180	180	190	190	200	-	-	220	-	210	-	210	-	220	-	210	-
Alkalinity, Carbonate (as CaCO3)	mg/L	n/v	n/v	1.2	1.3	1.8	1.6	1.7	-	-	1.7	-	1.3	-	1.3	-	1.8	-	1.8	-
Alkalinity, Total (as CaCO3)	mg/L	30-500[E]	n/v	180	180	190	190	200	-	-	220	-	210	-	210	-	230	-	210	-
Ammonia (as N)	mg/L	n/v	n/v	0.37	0.13	0.91	0.72	0.44	-	-	<0.050	-	<0.05	-	0.14	-	<0.050	-	<0.050	-
Anion Sum	meq/L	n/v	n/v	7.36	7.11	7.48	7.28	7.82	-	-	8.09	-	8.20	-	7.97	-	8.20	-	7.57	-
Cation Sum	meq/L	n/v	n/v	7.46	6.85	10.6	7.29	7.73	-	-	8.52	-	8.25	-	8.20	-	7.69	-	7.42	-
Chloride	mg/L	250[D]	790[G] 790[H]	37	25	25	25	25	-	-	25	-	26	-	25	-	25	-	26	-
Cyanide (Free)	µg/L	200[C]	52[G] 52[H]	-	<2	<2	<2	<2	-	-	-	-	<2	-	<2	-	<2	-	<1	-
Dissolved Organic Carbon (DOC)	mg/L	5[D]	n/v	2.8	1.2	1.4	1.2	1.1	-	-	3.2	-	0.96	-	0.85	-	1.2	-	1.0	-
Electrical Conductivity, Lab	µmhos/cm	n/v	n/a[GH]	740	700	720	710	740	-	-	780	-	790	-	770	-	780	-	720	-
Fluoride	mg/L	1.5_b[C]	n/v	-	0.16	0.14	0.17	0.15	-	-	-	-	0.13	-	0.14	-	0.10	-	0.15	-
Hardness (as CaCO3)	mg/L	80-100[E]	n/v	**330[E]**	**320[E]**	**490[E]**	**340[E]**	**370[E]**	-	-	**410[E]**	-	**400[E]**	-	**390[E]**	-	**370[E]**	-	**350[E]**	-
Ion Balance	%	n/v	n/v	0.670	1.90	17.3	0.0300	0.580	-	-	2.54	-	0.300	-	1.40	-	3.17	-	1.01	-
Langelier Index (at 20 C)	none	n/v	n/v	0.588	0.597	0.980	0.693	0.714	-	-	0.802	-	0.682	-	0.662	-	0.795	-	0.755	-
Langelier Index (at 4 C)	none	n/v	n/v	0.339	0.348	0.732	0.445	0.467	-	-	0.554	-	0.434	-	0.413	-	0.547	-	0.507	-
Nitrate (as N)	mg/L	10.0_d[C]	n/v	5.59	**12.8[C]**	**16.1[C]**	**11.0[C]**	**18.2[C]**	-	-	**17.0[C]**	-	**20.4[C]**	-	**16.7[C]**	-	**16.7[C]**	-	9.45	-
Nitrate + Nitrite (as N)	mg/L	10.0_d[C]	n/v	5.62	**12.8[C]**	**16.1[C]**	**11.5[C]**	**18.2[C]**	-	-	**17.0[C]**	-	**20.4[C]**	-	**16.8[C]**	-	**16.7[C]**	-	9.45	-
Nitrite (as N)	mg/L	1.0_d[C]	n/v	0.027	0.033	<0.010	0.511	0.108	-	-	0.030	-	<0.01	-	0.058	-	<0.010	-	<0.010	-
Orthophosphate(as P)	mg/L	n/v	n/v	<0.010	<0.010	<0.010	<0.010	<0.010	-	-	<0.010	-	<0.01	-	<0.010	-	<0.010	-	<0.010	-
pH	S.U.	6.5-8.5[E]	n/v	7.84	7.89	8.00	7.97	7.95	-	-	7.91	-	7.81	-	7.82	-	7.93	-	7.96	-
Saturation pH (at 20 C)	none	n/v	n/v	7.25	7.29	7.02	7.28	7.23	-	-	7.11	-	7.13	-	7.16	-	7.14	-	7.20	-
Saturation pH (at 4 C)	none	n/v	n/v	7.50	7.54	7.27	7.52	7.48	-	-	7.36	-	7.38	-	7.41	-	7.38	-	7.45	-
Sulfate	mg/L	500_h[D]	n/v	110	90	87	95	84	-	-	85	-	87	-	88	-	86	-	97	-
Total Dissolved Solids	mg/L	500[D]	n/v	-	416	454	**534[D]**	**616[D]**	-	-	-	-	476	-	458	-	496	-	468	-
Total Dissolved Solids (Calculated)	mg/L	500[D]	n/v	-	-	-	-	-	-	-	490	-	490	-	470	-	470	-	430	-
Total Organic Carbon	mg/L	n/v	n/v	-	1.5	2.7	2.5	2.7	-	-	-	-	0.97	-	0.98	-	1.3	-	1.4	-
Total Suspended Solids	mg/L	n/v	n/v	-	1,800	400	230	2,600	340	-	35	-	10	-	17	-	<10	-	100	-
Turbidity, Lab	NTU	$5_{i\ j}$[D E]	n/v	-	**100[D]**	**120[D]**	**76[D]**	**580[D]**	**46[D]**	-	**12[D]**	-	**6.6[D]**	-	**5.4[D]**	-	**6.3[D]**	-	**8.7[D]**	-
BTEX and Petroleum Hydrocarbons																				
Benzene	µg/L	1[C]	0.5[G] 5[H]	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	-	<0.20	-	<0.2	-	<0.20	-	<0.20	-	<0.20	-
Toluene	µg/L	24[D]	24[G] 22[H]	1.0	<0.20	<0.20	<0.20	<0.20	<0.20	-	<0.20	-	<0.2	-	<0.20	-	<0.20	-	<0.20	-
Ethylbenzene	µg/L	2.4[D]	2.4[G] 2.4[H]	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	-	<0.20	-	<0.2	-	<0.20	-	<0.20	-	<0.20	-
Xylene, m & p-	µg/L	300_{s1}[D]	[GH] $_{s1}$	1.2	<0.20	<0.20	<0.20	<0.40	<0.20	-	<0.20	-	<0.2	-	<0.20	-	<0.20	-	<0.20	-
Xylene, o-	µg/L	300_{s1}[D]	[GH] $_{s1}$	0.49	<0.20	<0.20	<0.20	<0.20	<0.20	-	<0.20	-	<0.2	-	<0.20	-	<0.20	-	<0.20	-
Xylenes, Total	µg/L	300[D]	72_{s1}[G] 300_{s1}[H]	1.7	<0.20	<0.20	<0.20	<0.40	<0.20	-	<0.20	-	<0.2	-	<0.20	-	<0.20	-	<0.20	-
PHC F1 (C6-C10 range)	µg/L	n/v	$_{s7}$[GH]	<25	<25	<25	<25	<25	-	-	-	-	<25	-	<25	-	<25	-	<25	-
PHC F1 (C6-C10 range) minus BTEX	µg/L	n/v	420_{s7}[GH]	<25	<25	<25	<25	<25	-	-	-	-	<25	-	<25	-	<25	-	<25	-
PHC F2 (>C10-C16 range)	µg/L	n/v	150_{s15}[GH]	<100	<100	<100	<100	<100	-	-	-	-	<100	-	<100	-	<100	-	<100	-
PHC F3 (>C16-C34 range)	µg/L	n/v	500_{s8}[GH]	<200	<200	<200	<200	<200	-	-	-	-	<200	-	<200	-	<200	-	<200	-
PHC F4 (>C34-C50 range)	µg/L	n/v	500_{s10}[GH]	<200	<200	<200	<200	<200	-	-	-	-	<200	-	<200	-	<200	-	<200	-
Chromatogram to baseline at C50	none	n/v	n/v	YES	YES	YES	YES	YES	-	-	-	-	YES	-	YES	-	YES	-	YES	-

See notes on last page

Table 7
Summary of Groundwater Analytical Results - Monitoring Wells
Clarington Transformer Station
Hydro One Networks Inc.

Sample Location				MW1-13-S															
Sample Date				13-Dec-13	19-Mar-14	7-May-14	15-Aug-14	1-Oct-14	20-Nov-14	20-Nov-14	26-Nov-14	26-Nov-14	8-Apr-15	8-Apr-15	7-Oct-15	7-Oct-15	13-Apr-16	13-Apr-16	2-Nov-16	2-Nov-16
Sample ID				CLARS1213TWG-160960745-20131213-JK1	MW1-13-S	MW1-13-S	MW1-13-S	WG-160900764-20141001-JK9	WG-160900764-20141120-CD03	WG-160900764-20141120-CD03A	WG-160900764-20141126 RD04	WG-160900764-20141126 RD04A	WG-160900764-20150408-RD04	WG-160900764-20150408-RD04A	WG-160900764-20151007-RD12	WG-160900764-20151007-RD12A	WG-160900764-20160413-AM08	WG-160900764-20160413-AM08A	WG-160900764-20161102-AM13	WG-160900764-20161102-AM13A
Sampling Company				STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC
Laboratory				MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX
Laboratory Work Order				B3L6734	B443695	B475182	B4E7727	B4I4645	B4M0745	B4M0745	B4M4069	B4M4069	B561683	B561683	B5K5143	B5K5143	B674114	B674114	B6N8983	B6N8983
Laboratory Sample ID				UH4001	VG2315	VV0844	XD5197	XV9683	YO3444	YO3445	YP9575	YP9576	ABP945	ABP946	BCZ963	BCZ964	CEO884	CEO885	DJO980	DJO981
Filtered				Lab Filtered SVOC	Lab Filtered SVOC	Lab Filtered SVOC	Lab Filtered SVOC	Lab Filtered SVOC	-	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC
Sample Type	Units	ODWS	Ontario SCS																	
Metals																				
Aluminum	µg/L	100[E]	n/v	<5.0	7.0	-	<5.0	5.4	-	-	<5.0	<5.0	<5	-	<5.0	-	<5	-	<5	-
Antimony	µg/L	6[B]	6[G] 6[H]	<0.50	<0.50	-	<0.50	<0.50	-	-	<0.50	<0.50	<0.5	-	<0.5	-	<0.5	-	<0.5	-
Arsenic	µg/L	25[B]	25[G] 25[H]	<1.0	<1.0	-	<1.0	<1.0	-	-	<1.0	<1.0	<1	-	<1	-	<1	-	<1	-
Barium	µg/L	1,000[C]	1,000[G] 1,000[H]	110	59	-	63	66	-	-	73	69	62	-	59	-	61	-	61	-
Beryllium	µg/L	n/v	4[G] 4[H]	<0.50	<0.50	-	<0.50	<0.50	-	-	<0.50	<0.50	<0.5	-	<0.5	-	<0.5	-	<0.5	-
Boron	µg/L	5,000[B]	5,000[G] 5,000[H]	76	38	-	59	38	-	-	23	18	12	-	12	-	11	-	23	-
Cadmium	µg/L	5[C]	2.1[G] 2.1[H]	<0.10	<0.10	-	<0.10	<0.10	-	-	<0.10	<0.10	<0.1	-	<0.1	-	<0.1	-	<0.1	-
Calcium	µg/L	n/v	n/v	87,000	80,000	-	85,000	89,000	-	-	100,000	100,000	100,000	-	94,000	-	95,000	-	88,000	-
Chromium	µg/L	50[C]	50[G] 50[H]	<5.0	<5.0	-	<5.0	<5.0	-	-	<5.0	<5.0	<5	-	<5.0	-	<5	-	<5	-
Chromium (Hexavalent)	µg/L	n/v	25[G] 25[H]	-	<0.50	<0.50	<5.0	<5.0	-	-	-	-	0.80	-	<0.50	-	0.83	-	<0.50	-
Cobalt	µg/L	n/v	3.8[G] 3.8[H]	0.85	<0.50	-	<0.50	<0.50	-	-	<0.50	<0.50	<0.5	-	<0.5	-	<0.5	-	<0.5	-
Copper	µg/L	1,000[D]	69[G] 69[H]	<1.0	<1.0	-	<1.0	<1.0	-	-	1.8	<1.0	<1	-	<1	-	<1	-	<1	-
Iron	µg/L	300[D]	n/v	<100	<100	-	<100	<100	-	-	<100	<100	<100	-	<100	-	<100	-	<100	-
Lead	µg/L	10_c[C]	10[G] 10[H]	<0.50	<0.50	-	<0.50	<0.50	-	-	<0.50	<0.50	<0.5	-	<0.5	-	<0.5	-	<0.5	-
Magnesium	µg/L	n/v	n/v	27,000	29,000	-	31,000	35,000	-	-	36,000	35,000	35,000	-	38,000	-	33,000	-	33,000	-
Manganese	µg/L	50[D]	n/v	35	16	-	14	5.8	-	-	9.3	9.3	5.7	-	11	-	3.4	-	8.2	-
Mercury	µg/L	1[C]	0.1[G] 0.29[H]	-	<0.1	<0.1	<0.10	<0.1	-	-	-	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-
Molybdenum	µg/L	n/v	70[G] 70[H]	13	9.1	-	15	11	-	-	4.6	5.1	3.2	-	5.9	-	1.7	-	5	-
Nickel	µg/L	n/v	100[G] 100[H]	<1.0	<1.0	-	<1.0	<1.0	-	-	<1.0	1.3	<1	-	<1	-	<1	-	<1	-
Phosphorus	µg/L	n/v	n/v	<100	<100	-	<100	<100	-	-	<100	<100	<100	-	<100	-	<100	-	<100	-
Potassium	µg/L	n/v	n/v	12,000	5,500	-	6,200	5,100	-	-	3,700	3,700	2,800	-	4,100	-	2,300	-	4,100	-
Selenium	µg/L	10[C]	10[G] 10[H]	<2.0	<2.0	-	<2.0	<2.0	-	-	<2.0	<2.0	<2	-	<2	-	<2	-	<2	-
Silicon	µg/L	n/v	n/v	6,900	6,000	-	6,800	7,900	-	-	9,100	8,700	7,600	-	7,800	-	6,900	-	6,900	-
Silver	µg/L	n/v	1.2[G] 1.2[H]	<0.10	<0.10	-	<0.10	<0.10	-	-	<0.10	<0.10	<0.1	-	<0.1	-	<0.1	-	<0.1	-
Sodium	µg/L	$200{,}000_g$[D] $20{,}000_g$[F]	490,000[G] 490,000[H]	13,000	6,800	-	7,100	6,300	-	-	6,300	6,000	5,400	-	6,500	-	5,000	-	5,900	-
Strontium	µg/L	n/v	n/v	420	370	-	400	400	-	-	370	370	340	-	390	-	310	-	360	-
Thallium	µg/L	n/v	2[G] 2[H]	<0.050	<0.050	-	<0.050	<0.050	-	-	<0.050	<0.050	<0.05	-	<0.05	-	<0.05	-	<0.05	-
Titanium	µg/L	n/v	n/v	<5.0	<5.0	-	<5.0	<5.0	-	-	<5.0	<5.0	<5	-	<5.0	-	<5	-	<5	-
Uranium	µg/L	20[C]	20[G] 20[H]	3.6	3.1	-	3.0	3.0	-	-	2.2	2.3	1.8	-	2.8	-	1.7	-	2.8	-
Vanadium	µg/L	n/v	6.2[G] 6.2[H]	0.75	<0.50	-	<0.50	0.63	-	-	<0.50	0.54	<0.5	-	0.54	-	0.83	-	0.56	-
Zinc	µg/L	5,000[D]	890[G] 890[H]	<5.0	<5.0	-	<5.0	<5.0	-	-	6.5	5.2	<5	-	<5.0	-	<5	-	<5	-
Zirconium	µg/L	n/v	n/v	<1.0	-	-	-	<1.0	-	-	<1.0	<1.0	<1	-	<1	-	<1	-	<1	-
Polychlorinated Biphenyls																				
Aroclor 1242	µg/L	n/v	$_{s14}$[GH]	-	<0.05	<0.05	<0.05	<0.5	-	-	-	-	<0.05	-	<0.05	-	<0.05	-	<0.05	-
Aroclor 1248	µg/L	n/v	$_{s14}$[GH]	-	<0.05	<0.05	<0.05	<0.5	-	-	-	-	<0.05	-	<0.05	-	<0.05	-	<0.05	-
Aroclor 1254	µg/L	n/v	$_{s14}$[GH]	-	<0.05	<0.05	<0.05	<0.5	-	-	-	-	<0.05	-	<0.05	-	<0.05	-	<0.05	-
Aroclor 1260	µg/L	n/v	$_{s14}$[GH]	-	<0.05	<0.05	<0.05	<0.5	-	-	-	-	<0.05	-	<0.05	-	<0.05	-	<0.05	-
Polychlorinated Biphenyls (PCBs)	µg/L	3[B]	0.2_{s14}[GH]	-	<0.05	<0.05	<0.05	***<0.5***	-	-	-	-	<0.05	-	<0.05	-	<0.05	-	<0.05	-

See notes on last page

Table 7
Summary of Groundwater Analytical Results - Monitoring Wells
Clarington Transformer Station
Hydro One Networks Inc.

Sample Location				MW1-13-S															
Sample Date				13-Dec-13	19-Mar-14	7-May-14	15-Aug-14	1-Oct-14	20-Nov-14	20-Nov-14	26-Nov-14	26-Nov-14	8-Apr-15	8-Apr-15	7-Oct-15	7-Oct-15	13-Apr-16	13-Apr-16	2-Nov-16	2-Nov-16
Sample ID				CLARS1213TWG-160960745-20131213-JK1	MW1-13-S	MW1-13-S	MW1-13-S	WG-160900764-20141001-JK9	WG-160900764-20141120-CD03	WG-160900764-20141120-CD03A	WG-160900764-20141126 RD04	WG-160900764-20141126 RD04A	WG-160900764-20150408-RD04	WG-160900764-20150408-RD04A	WG-160900764-20151007-RD12	WG-160900764-20151007-RD12A	WG-160900764-20160413-AM08	WG-160900764-20160413-AM08A	WG-160900764-20161102-AM13	WG-160900764-20161102-AM13A
Sampling Company				STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC
Laboratory				MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX
Laboratory Work Order				B3L6734	B443695	B475182	B4E7727	B4I4645	B4M0745	B4M0745	B4M4069	B4M4069	B561683	B561683	B5K5143	B5K5143	B674114	B674114	B6N8983	B6N8983
Laboratory Sample ID				UH4001	VG2315	VV0844	XD5197	XV9683	YO3444	YO3445	YP9575	YP9576	ABP945	ABP946	BCZ963	BCZ964	CEO884	CEO885	DJO980	DJO981
Filtered				Lab Filtered SVOC	Lab Filtered SVOC	Lab Filtered SVOC	Lab Filtered SVOC	Lab Filtered SVOC	-	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC
Sample Type	Units	ODWS	Ontario SCS																	
Semi-Volatile Organic Compounds																				
Phthalates																				
Bis(2-Ethylhexyl)phthalate (DEHP)	µg/L	n/v	10[G] 10[H]	-	**17[GH]**	4	2	**28[GH]**	4	1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Diethyl Phthalate	µg/L	n/v	30[G] 30[H]	-	<0.5	0.1	0.1	<2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dimethyl Phthalate	µg/L	n/v	30[G] 30[H]	-	<0.5	<0.1	<0.1	<2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Polycyclic Aromatic Hydrocarbons																				
Acenaphthene	µg/L	n/v	4.1[G] 4.1[H]	-	<1	<0.2	<0.2	<4	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Acenaphthylene	µg/L	n/v	1[G] 1[H]	-	<1	<0.2	<0.2	***<4***	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Anthracene	µg/L	n/v	1[G] 1[H]	-	<0.3	<0.05	<0.05	<1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(a)anthracene	µg/L	n/v	1[G] 1[H]	-	0.3	0.05	<0.05	<1	0.15	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(a)pyrene	µg/L	0.01[C]	0.01[G] 0.01[H]	-	**0.26[CGH]**	**0.04[CGH]**	**0.03[CGH]**	***<0.2***	**0.08[CGH]**	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Benzo(b/j)fluoranthene	µg/L	n/v	0.1[G] [GH]	-	**0.4[GH]**	0.06	<0.05	***<1***	0.10	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(g,h,i)perylene	µg/L	n/v	0.2[G] 0.2[H]	-	***<0.5***	<0.2 MI	<0.05	***<1***	0.06	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(k)fluoranthene	µg/L	n/v	0.1[G] 0.1[H]	-	***<0.3***	<0.05	<0.05	***<1***	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Chrysene	µg/L	n/v	0.1[G] 0.1[H]	-	**0.4[GH]**	0.06	<0.05	***<1***	0.10	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Dibenzo(a,h)anthracene	µg/L	n/v	0.2[G] 0.2[H]	-	***<0.5***	<0.1	<0.1	***<2***	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	µg/L	n/v	0.41[G] 0.41[H]	-	***<1***	<0.2	<0.2	***<4***	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Fluorene	µg/L	n/v	120[G] 120[H]	-	<1	<0.2	<0.2	<4	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Indeno(1,2,3-cd)pyrene	µg/L	n/v	0.2[G] 0.2[H]	-	***<0.5***	<0.1	<0.1	***<2***	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Methylnaphthalene (Total)	µg/L	n/v	3.2[s3] [GH]	-	<1.4	<0.28	<0.28	***<5.7***	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28
Methylnaphthalene, 1-	µg/L	n/v	[s3] [GH]	-	<1	<0.2	<0.2	<4	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Methylnaphthalene, 2-	µg/L	n/v	[s3] [GH]	-	<1	<0.2	<0.2	<4	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Naphthalene	µg/L	n/v	7[G] 11[H]	-	<1	<0.2	<0.2	<4	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Phenanthrene	µg/L	n/v	1[G] 1[H]	-	0.6	0.1	<0.1	***<2***	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Pyrene	µg/L	n/v	4.1[G] 4.1[H]	-	0.9	0.14	0.11	<1	0.24	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Remaining Semi-Volatile Organic Compounds																				
Biphenyl, 1,1'- (Biphenyl)	µg/L	n/v	0.5[G] 0.5[H]	-	<0.5	<0.1	<0.1	***<2***	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Bis(2-Chloroethyl)ether	µg/L	n/v	5[G] 5[H]	-	<3	<0.5	<0.5	***<10***	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Bis(2-Chloroisopropyl)ether	µg/L	n/v	120[G] 120[H]	-	<3	<0.5	<0.5	<10	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Chloroaniline, 4-	µg/L	n/v	10[G] 10[H]	-	<5	<1	<1	***<20***	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chlorophenol, 2- (ortho-Chlorophenol)	µg/L	n/v	8.9[G] 8.9[H]	-	<0.5	<0.1	<0.1	<2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dichlorobenzidine, 3,3'-	µg/L	n/v	0.5[G] 0.5[H]	-	***<3***	<0.5	<0.5	***<10***	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Dichlorophenol, 2,4-	µg/L	900[C] 0.3[D]	20[G] 20[H]	-	***<0.5***	<0.1	<0.1	***<2***	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dimethylphenol, 2,4-	µg/L	n/v	59[G] 59[H]	-	<3	<0.5	<0.5	<10	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Dinitrophenol, 2,4-	µg/L	n/v	10[G] 10[H]	-	<10	<2	<2	***<40***	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Dinitrotoluene, 2,4-	µg/L	n/v	5[s13] [GH]	-	<1	<0.3	<0.3	<5	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Dinitrotoluene, 2,6-	µg/L	n/v	5[s13] [GH]	-	<1	<0.3	<0.3	<5	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Pentachlorophenol	µg/L	60[C] 30[I][D]	30[G] 30[H]	-	<0.5	<0.1	<0.1	<2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Phenol	µg/L	n/v	890[G] 890[H]	-	<3	<0.5	<0.5	<10	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Trichlorobenzene, 1,2,4-	µg/L	n/v	3[G] 70[H]	-	<0.5	<0.1	<0.1	<2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Trichlorophenol, 2,4,5-	µg/L	n/v	8.9[G] 8.9[H]	-	<1	<0.2	<0.2	<4	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Trichlorophenol, 2,4,6-	µg/L	5[C] 2[I][D]	2[G] 2[H]	-	<1	<0.2	<0.2	***<4***	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2

See notes on last page

Table 7
Summary of Groundwater Analytical Results - Monitoring Wells
Clarington Transformer Station
Hydro One Networks Inc.

Sample Location				MW1-13-S															
Sample Date				13-Dec-13	19-Mar-14	7-May-14	15-Aug-14	1-Oct-14	20-Nov-14	20-Nov-14	26-Nov-14	26-Nov-14	8-Apr-15	8-Apr-15	7-Oct-15	7-Oct-15	13-Apr-16	13-Apr-16	2-Nov-16	2-Nov-16
Sample ID				CLARS1213TWG-160960745-20131213-JK1	MW1-13-S	MW1-13-S	MW1-13-S	WG-160900764-20141001-JK9	WG-160900764-20141120-CD03	WG-160900764-20141120-CD03A	WG-160900764-20141126 RD04	WG-160900764-20141126 RD04A	WG-160900764-20150408-RD04	WG-160900764-20150408-RD04A	WG-160900764-20151007-RD12	WG-160900764-20151007-RD12A	WG-160900764-20160413-AM08	WG-160900764-20160413-AM08A	WG-160900764-20161102-AM13	WG-160900764-20161102-AM13A
Sampling Company				STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC
Laboratory				MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX
Laboratory Work Order				B3L6734	B443695	B475182	B4E7727	B4I4645	B4M0745	B4M0745	B4M4069	B4M4069	B561683	B561683	B5K5143	B5K5143	B674114	B674114	B6N8983	B6N8983
Laboratory Sample ID				UH4001	VG2315	VV0844	XD5197	XV9683	YO3444	YO3445	YP9575	YP9576	ABP945	ABP946	BCZ963	BCZ964	CEO884	CEO885	DJO980	DJO981
Filtered				Lab Filtered SVOC	Lab Filtered SVOC	Lab Filtered SVOC	Lab Filtered SVOC	Lab Filtered SVOC	-	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC
Sample Type	Units	ODWS	Ontario SCS																	
Volatile Organic Compounds																				
Acetone	µg/L	n/v	2,700[G] 2,700[H]	-	<10	<10	<10	<10	<10	-	<10	-	<10	-	<10	-	<10	-	<10	-
Bromodichloromethane	µg/L	n/v	16[G] 16[H]	-	<0.50	<0.50	<0.50	<0.50	<0.50	-	<0.50	-	<0.5	-	<0.50	-	<0.50	-	<0.50	-
Bromoform (Tribromomethane)	µg/L	n/v	5[G] 25[H]	-	<1.0	<1.0	<1.0	<1.0	<1.0	-	<1.0	-	<1	-	<1.0	-	<1.0	-	<1.0	-
Bromomethane (Methyl bromide)	µg/L	n/v	0.89[G] 0.89[H]	-	<0.50	<0.50	<0.50	<0.50	<0.50	-	<0.50	-	<0.5	-	<0.50	-	<0.50	-	<0.50	-
Carbon Tetrachloride (Tetrachloromethane)	µg/L	2[C]	0.2[G] 0.79[H]	-	<0.20	<0.20	<0.20	<0.20	<0.20	-	<0.20	-	<0.2	-	<0.20	-	<0.20	-	<0.20	-
Chlorobenzene (Monochlorobenzene)	µg/L	80[C] 30[D]	30[G] 30[H]	-	<0.20	<0.20	<0.20	<0.20	<0.20	-	<0.20	-	<0.2	-	<0.20	-	<0.20	-	<0.20	-
Chloroform (Trichloromethane)	µg/L	n/v	2[G] 2.4[H]	-	<0.20	<0.20	<0.20	<0.20	<0.20	-	<0.20	-	<0.2	-	<0.20	-	<0.20	-	<0.20	-
Dibromochloromethane	µg/L	n/v	25[G] 25[H]	-	<0.50	<0.50	<0.50	<0.50	<0.50	-	<0.50	-	<0.5	-	<0.50	-	<0.50	-	<0.50	-
Dichlorobenzene, 1,2-	µg/L	200[C] 3[D]	3[G] 3[H]	-	<0.50	<0.50	<0.50	<0.50	<0.50	-	<0.50	-	<0.5	-	<0.50	-	<0.50	-	<0.50	-
Dichlorobenzene, 1,3-	µg/L	n/v	59[G] 59[H]	-	<0.50	<0.50	<0.50	<0.50	<0.50	-	<0.50	-	<0.5	-	<0.50	-	<0.50	-	<0.50	-
Dichlorobenzene, 1,4-	µg/L	5[C] 1[D]	0.5[G] 1[H]	-	<0.50	<0.50	<0.50	<0.50	<0.50	-	<0.50	-	<0.5	-	<0.50	-	<0.50	-	<0.50	-
Dichlorodifluoromethane (Freon 12)	µg/L	n/v	590[G] 590[H]	-	<1.0	<1.0	<1.0	<1.0	<1.0	-	<1.0	-	<1	-	<1.0	-	<1.0	-	<1.0	-
Dichloroethane, 1,1-	µg/L	n/v	5[G] 5[H]	-	<0.20	<0.20	<0.20	<0.20	<0.20	-	<0.20	-	<0.2	-	<0.20	-	<0.20	-	<0.20	-
Dichloroethane, 1,2-	µg/L	5[B]	0.5[G] 1.6[H]	-	<0.50	<0.50	<0.50	<0.50	<0.50	-	<0.50	-	<0.5	-	<0.50	-	<0.50	-	<0.50	-
Dichloroethene, 1,1-	µg/L	14[C]	0.5[G] 1.6[H]	-	<0.20	<0.20	<0.20	<0.20	<0.20	-	<0.20	-	<0.2	-	<0.20	-	<0.20	-	<0.20	-
Dichloroethene, cis-1,2-	µg/L	n/v	1.6[G] 1.6[H]	-	<0.50	<0.50	<0.50	<0.50	<0.50	-	<0.50	-	<0.5	-	<0.50	-	<0.50	-	<0.50	-
Dichloroethene, trans-1,2-	µg/L	n/v	1.6[G] 1.6[H]	-	<0.50	<0.50	<0.50	<0.50	<0.50	-	<0.50	-	<0.5	-	<0.50	-	<0.50	-	<0.50	-
Dichloropropane, 1,2-	µg/L	n/v	0.58[G] 5[H]	-	<0.20	<0.20	<0.20	<0.20	<0.20	-	<0.20	-	<0.2	-	<0.20	-	<0.20	-	<0.20	-
Dichloropropene, 1,3- (sum of isomers cis + trans)	µg/L	n/v	0.5[s11][GH]	-	<0.50	<0.50	<0.50	<0.50	<0.50	-	<0.50	-	<0.5	-	<0.50	-	<0.50	-	<0.50	-
Dichloropropene, cis-1,3-	µg/L	n/v	[s11][GH]	-	<0.30	<0.30	<0.30	<0.30	<0.30	-	<0.30	-	<0.3	-	<0.30	-	<0.30	-	<0.30	-
Dichloropropene, trans-1,3-	µg/L	n/v	[s11][GH]	-	<0.40	<0.40	<0.40	<0.40	<0.40	-	<0.40	-	<0.4	-	<0.40	-	<0.40	-	<0.40	-
Ethylene Dibromide (Dibromoethane, 1,2-)	µg/L	n/v	0.2[G] 0.2[H]	-	<0.20	<0.20	<0.20	<0.20	<0.20	-	<0.20	-	<0.2	-	<0.20	-	<0.20	-	<0.20	-
Hexane (n-Hexane)	µg/L	n/v	5[G] 51[H]	-	<1.0	<1.0	<1.0	<1.0	<1.0	-	<1.0	-	<1	-	<1.0	-	<1.0	-	<1.0	-
Methyl Ethyl Ketone (MEK) (2-Butanone)	µg/L	n/v	1,800[G] 1,800[H]	-	<10	<10	<10	<10	<10	-	<10	-	<10	-	<10	-	<10	-	<10	-
Methyl Isobutyl Ketone (MIBK)	µg/L	n/v	640[G] 640[H]	-	<5.0	<5.0	<5.0	<5.0	<5.0	-	<5.0	-	<5	-	<5.0	-	<5.0	-	<5.0	-
Methyl tert-butyl ether (MTBE)	µg/L	n/v	15[G] 15[H]	-	<0.50	<0.50	<0.50	<0.50	<0.50	-	<0.50	-	<0.5	-	<0.50	-	<0.50	-	<0.50	-
Methylene Chloride (Dichloromethane)	µg/L	50[C]	26[G] 50[H]	-	<2.0	<2.0	<2.0	<2.0	<2.0	-	<2.0	-	<2	-	<2.0	-	<2.0	-	<2.0	-
Styrene	µg/L	n/v	5.4[G] 5.4[H]	-	<0.50	<0.50	<0.50	<0.50	<0.50	-	<0.50	-	<0.5	-	<0.50	-	<0.50	-	<0.50	-
Tetrachloroethane, 1,1,1,2-	µg/L	n/v	1.1[G] 1.1[H]	-	<0.50	<0.50	<0.50	<0.50	<0.50	-	<0.50	-	<0.5	-	<0.50	-	<0.50	-	<0.50	-
Tetrachloroethane, 1,1,2,2-	µg/L	n/v	0.5[G] 1[H]	-	<0.50	<0.50	<0.50	<0.50	<0.50	-	<0.50	-	<0.5	-	<0.50	-	<0.50	-	<0.50	-
Tetrachloroethene (PCE)	µg/L	30[C]	0.5[G] 1.6[H]	-	<0.20	<0.20	<0.20	<0.20	<0.20	-	<0.20	-	<0.2	-	<0.20	-	<0.20	-	<0.20	-
Trichloroethane, 1,1,1-	µg/L	n/v	23[G] 200[H]	-	<0.20	<0.20	<0.20	<0.20	<0.20	-	<0.20	-	<0.2	-	<0.20	-	<0.20	-	<0.20	-
Trichloroethane, 1,1,2-	µg/L	n/v	0.5[G] 4.7[H]	-	<0.50	<0.50	<0.50	<0.50	<0.50	-	<0.50	-	<0.5	-	<0.50	-	<0.50	-	<0.50	-
Trichloroethene (TCE)	µg/L	5[C]	0.5[G] 1.6[H]	-	<0.20	<0.20	<0.20	<0.20	<0.20	-	<0.20	-	<0.2	-	<0.20	-	<0.20	-	<0.20	-
Trichlorofluoromethane (Freon 11)	µg/L	n/v	150[G] 150[H]	-	<0.50	<0.50	<0.50	<0.50	<0.50	-	<0.50	-	<0.5	-	<0.50	-	<0.50	-	<0.50	-
Trihalomethanes	µg/L	100[e][C]	n/v	-	-	-	-	-	-	-	-	-	-	-	<0.20	-	-	-	-	-
Vinyl Chloride	µg/L	1[C]	0.5[G] 0.5[H]	-	<0.20	<0.20	<0.20	<0.20	<0.20	-	<0.20	-	<0.2	-	<0.20	-	<0.20	-	<0.20	-

See notes on last page

Table 7
Summary of Groundwater Analytical Results - Monitoring Wells
Clarington Transformer Station
Hydro One Networks Inc.

Sample Location				MW1-13-S (Contd.)				MW2-13-D											
Sample Date				26-Apr-17	26-Apr-17	17-Oct-17	17-Oct-17	13-Dec-13	7-May-14	15-Aug-14	1-Oct-14	26-Nov-14	26-Nov-14	10-Apr-15	10-Apr-15	7-Oct-15	7-Oct-15	14-Apr-16	14-Apr-16
Sample ID				WG-160900764-20170426-RD-12	WG-160900764-20170426-RD-12A	WG-160900764-20171017-CF05	WG-160900764-20171017-CF05A	CLARS1213TWG-160960745-20131213-JK3	MW2-13-D	MW2-13-D	WG-160900764-20141002-JK11	WG-160900764-20141126 RD01	WG-160900764-20141126 RD01A	WG-160900764-20150410-RD11	WG-160900764-20150410-RD11A	WG-160900764-20151007-RD16	WG-160900764-20151007-RD16A	WG-160900764-20160414-AM15	WG-160900764-20160414-AM15A
Sampling Company				STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC
Laboratory				MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX
Laboratory Work Order				B785281	B785281	B7N0947	B7N0947	B3L6734	B475182	B4E7727	B4I4645	B4M4069	B4M4069	B563828	B563828	B5K5143	B5K5143	B674631	B674631
Laboratory Sample ID				EHF900	EHF901	FIY621	FIY622	UH4003	VV0846	XD5195	XV9685	YP9569	YP9570	ABZ562	ABZ563	BCZ972	BCZ973	CER543	CER544
Filtered				Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC	Lab Filtered SVOC	Lab Filtered SVOC	Lab Filtered SVOC	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC
Sample Type	Units	ODWS	Ontario SCS																
General Chemistry																			
Acidity	mg/L	n/v	n/v	18	-	9.4	-	-	<10	<10	<10	-	-	<10	-	<10	-	<10	-
Alkalinity, Bicarbonate (as CaCO3)	mg/L	n/v	n/v	210	-	220	-	120	88	88	89	97	-	98	-	100	-	93	-
Alkalinity, Carbonate (as CaCO3)	mg/L	n/v	n/v	1.4	-	1.5	-	1.5	1.8	1.8	1.5	2.0	-	1.3	-	1.7	-	<1.0	-
Alkalinity, Total (as CaCO3)	mg/L	30-500[E]	n/v	210	-	220	-	120	90	90	91	99	-	99	-	100	-	93	-
Ammonia (as N)	mg/L	n/v	n/v	<0.050	-	<0.050	-	0.34	<0.050	<0.050	0.27	0.063	-	0.066	-	<0.050	-	<0.050	-
Anion Sum	meq/L	n/v	n/v	7.92	-	8.18	-	3.78	2.27	2.14	2.14	2.23	-	2.41	-	2.29	-	2.10	-
Cation Sum	meq/L	n/v	n/v	7.96	-	7.15	-	4.05	64.8	2.08	2.18	2.11	-	2.01	-	2.19	-	2.16	-
Chloride	mg/L	250[D]	790[G] 790[H]	25	-	24	-	21	6	3	2	2	-	9	-	2.3	-	<1.0	-
Cyanide (Free)	µg/L	200[C]	52[G] 52[H]	<1	-	<1	-	-	<2	<2	<2	-	-	<2	-	<2	-	<2	-
Dissolved Organic Carbon (DOC)	mg/L	5[D]	n/v	0.90	-	0.91	-	**14[D]**	3.2	2.9	2.5	2.0	-	3.5	-	3.4	-	1.0	-
Electrical Conductivity, Lab	µmhos/cm	n/v	n/a[GH]	770	-	730	-	380	200	200	200	190	-	190	-	180	-	190	-
Fluoride	mg/L	1.5_b[C]	n/v	0.11	-	0.15	-	-	0.96	0.84	0.78	-	-	0.97	-	0.91	-	0.84	-
Hardness (as CaCO3)	mg/L	80-100[E]	n/v	**380[E]**	-	**340[E]**	-	**130[E]**	**3,200[E]**	**45[E]**	**49[E]**	**43[E]**	-	**39[E]**	-	**43[E]**	-	**47[E]**	-
Ion Balance	%	n/v	n/v	0.230	-	6.74	-	3.37	93.2	< 0	< 0	< 0	-	NC	-	NC	-	NC	-
Langelier Index (at 20 C)	none	n/v	n/v	0.704	-	0.641	-	0.359	2.02	-0.106	-0.175	-0.0410	-	-0.324	-	-0.121	-	-0.623	-
Langelier Index (at 4 C)	none	n/v	n/v	0.456	-	0.393	-	0.109	1.77	-0.355	-0.423	-0.292	-	-0.574	-	-0.372	-	-0.874	-
Nitrate (as N)	mg/L	10.0_d[C]	n/v	**12.6[C]**	-	**13.4[C]**	-	0.96	<0.10	<0.10	<0.10	<0.10	-	<0.1	-	<0.10	-	<0.10	-
Nitrate + Nitrite (as N)	mg/L	10.0_d[C]	n/v	**12.6[C]**	-	**13.5[C]**	-	0.99	<0.10	<0.10	<0.10	<0.10	-	<0.1	-	<0.10	-	<0.10	-
Nitrite (as N)	mg/L	1.0_d[C]	n/v	0.013	-	0.067	-	0.023	<0.010	<0.010	<0.010	<0.010	-	<0.01	-	<0.010	-	<0.010	-
Orthophosphate(as P)	mg/L	n/v	n/v	<0.010	-	<0.010	-	<0.010	<0.010	<0.010	<0.010	<0.010	-	<0.01	-	<0.010	-	<0.010	-
pH	S.U.	6.5-8.5[E]	n/v	7.87	-	7.85	-	8.15	8.35	8.33	8.27	8.35	-	8.13	-	8.26	-	7.77	-
Saturation pH (at 20 C)	none	n/v	n/v	7.16	-	7.21	-	7.79	6.33	8.44	8.44	8.39	-	8.46	-	8.38	-	8.40	-
Saturation pH (at 4 C)	none	n/v	n/v	7.41	-	7.46	-	8.04	6.58	8.69	8.69	8.64	-	8.71	-	8.63	-	8.65	-
Sulfate	mg/L	500_h[D]	n/v	100	-	100	-	38	11	11	11	10	-	6	-	4.3	-	9.2	-
Total Dissolved Solids	mg/L	500[D]	n/v	468	-	**520[D]**	-	-	170	276	346	-	-	230	-	118	-	136	-
Total Dissolved Solids (Calculated)	mg/L	500[D]	n/v	460	-	460	-	-	-	-	-	130	-	130	-	130	-	120	-
Total Organic Carbon	mg/L	n/v	n/v	1.0	-	1.2	-	-	11	3.5	2.5	-	-	4.3	-	4.2	-	1.3	-
Total Suspended Solids	mg/L	n/v	n/v	<10	-	55	-	-	18,000	12,000	7,400	40	-	250	-	42	-	<10	-
Turbidity, Lab	NTU	$5[D, E, J]$	n/v	1.3	-	2.5	-	-	**1,400[D]**	**3,100[D]**	**5,200[D]**	**110[D]**	-	**120[D]**	-	**160[D]**	-	1.0	-
BTEX and Petroleum Hydrocarbons																			
Benzene	µg/L	1[C]	0.5[G] 5[H]	<0.20	-	<0.20	-	**1.7[CG]**	**0.77[G]**	0.32	0.31	<0.20	-	0.23	-	<0.20	-	<0.20	-
Toluene	µg/L	24[D]	24[G] 22[H]	<0.20	-	<0.20	-	3.4	1.4	0.82	0.96	0.44	-	0.58	-	0.57	-	<0.20	-
Ethylbenzene	µg/L	2.4[D]	2.4[G] 2.4[H]	<0.20	-	<0.20	-	0.49	0.22	<0.20	<0.20	<0.20	-	<0.2	-	<0.20	-	<0.20	-
Xylene, m & p-	µg/L	300_{s1}[D]	$_{s1}$[GH]	<0.20	-	<0.20	-	1.7	0.82	0.52	0.74	0.29	-	0.44	-	0.41	-	<0.20	-
Xylene, o-	µg/L	300_{s1}[D]	$_{s1}$[GH]	<0.20	-	<0.20	-	0.61	0.31	<0.20	0.30	<0.20	-	<0.2	-	<0.20	-	<0.20	-
Xylenes, Total	µg/L	300[D]	72_{s1}[G] 300_{s1}[H]	<0.20	-	<0.20	-	2.3	1.1	0.52	1.0	0.29	-	0.44	-	0.41	-	<0.20	-
PHC F1 (C6-C10 range)	µg/L	n/v	$_{s7}$[GH]	<25	-	<25	-	<25	<25	<25	<25	-	-	<25	-	<25	-	<25	-
PHC F1 (C6-C10 range) minus BTEX	µg/L	n/v	420_{s7}[GH]	<25	-	<25	-	<25	<25	<25	<25	-	-	<25	-	<25	-	<25	-
PHC F2 (>C10-C16 range)	µg/L	n/v	150_{s15}[GH]	<100	-	<100	-	<100	<100	<100	<100	-	-	<100	-	<100	-	<100	-
PHC F3 (>C16-C34 range)	µg/L	n/v	500_{s8}[GH]	<200	-	<200	-	<200	<200	<200	<200	-	-	<200	-	<200	-	<200	-
PHC F4 (>C34-C50 range)	µg/L	n/v	500_{s10}[GH]	<200	-	<200	-	<200	<200	<200	<200	-	-	<200	-	<200	-	<200	-
Chromatogram to baseline at C50	none	n/v	n/v	YES	-	YES	-	YES	YES	YES	YES	-	-	YES	-	YES	-	YES	-

See notes on last page

Table 7
Summary of Groundwater Analytical Results - Monitoring Wells
Clarington Transformer Station
Hydro One Networks Inc.

Sample Location				MW1-13-S (Contd.)				MW2-13-D											
Sample Date				26-Apr-17	26-Apr-17	17-Oct-17	17-Oct-17	13-Dec-13	7-May-14	15-Aug-14	1-Oct-14	26-Nov-14	26-Nov-14	10-Apr-15	10-Apr-15	7-Oct-15	7-Oct-15	14-Apr-16	14-Apr-16
Sample ID				WG-160900764-20170426-RD-12	WG-160900764-20170426-RD-12A	WG-160900764-20171017-CF05	WG-160900764-20171017-CF05A	CLARS1213TWG-160960745-20131213-JK3	MW2-13-D	MW2-13-D	WG-160900764-20141002-JK11	WG-160900764-20141126 RD01	WG-160900764-20141126 RD01A	WG-160900764-20150410-RD11	WG-160900764-20150410-RD11A	WG-160900764-20151007-RD16	WG-160900764-20151007-RD16A	WG-160900764-20160414-AM15	WG-160900764-20160414-AM15A
Sampling Company				STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC
Laboratory				MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX
Laboratory Work Order				B785281	B785281	B7N0947	B7N0947	B3L6734	B475182	B4E7727	B4I4645	B4M4069	B4M4069	B563828	B563828	B5K5143	B5K5143	B674631	B674631
Laboratory Sample ID				EHF900	EHF901	FIY621	FIY622	UH4003	VV0846	XD5195	XV9685	YP9569	YP9570	ABZ562	ABZ563	BCZ972	BCZ973	CER543	CER544
Filtered				Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC	Lab Filtered SVOC	Lab Filtered SVOC	Lab Filtered SVOC	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC
Sample Type	**Units**	**ODWS**	**Ontario SCS**																
Metals																			
Aluminum	µg/L	100[E]	n/v	<5.0	-	<5	-	6.9	-	13	14	7.6	9.0	12	-	8.1	-	<5	-
Antimony	µg/L	6[B]	6[G] 6[H]	<0.50	-	<0.5	-	<0.50	-	<0.50	<0.50	<0.50	<0.50	0.54	-	<0.5	-	<0.5	-
Arsenic	µg/L	25[B]	25[G] 25[H]	<1.0	-	<1	-	<1.0	-	1.4	1.2	<1.0	<1.0	<1	-	<1	-	<1	-
Barium	µg/L	1,000[C]	1,000[G] 1,000[H]	60	-	70	-	100	-	33	42	28	26	19	-	19	-	20	-
Beryllium	µg/L	n/v	4[G] 4[H]	<0.50	-	<0.5	-	<0.50	-	<0.50	<0.50	<0.50	<0.50	<0.5	-	<0.5	-	<0.5	-
Boron	µg/L	5,000[B]	5,000[G] 5,000[H]	10	-	16	-	150	-	140	130	140	130	120	-	120	-	100	-
Cadmium	µg/L	5[C]	2.1[G] 2.1[H]	<0.10	-	<0.1	-	<0.10	-	<0.10	<0.10	<0.10	<0.10	<0.1	-	<0.1	-	<0.1	-
Calcium	µg/L	n/v	n/v	96,000	-	82,000	-	34,000	-	11,000	11,000	9,300	8,700	8,800	-	9,000	-	9,900	-
Chromium	µg/L	50[C]	50[G] 50[H]	<5.0	-	<5	-	<5.0	-	<5.0	<5.0	<5.0	<5.0	<5	-	<5.0	-	<5	-
Chromium (Hexavalent)	µg/L	n/v	25[G] 25[H]	0.69	-	<0.50	-	-	<0.50	<0.50	<0.50	-	-	<0.5	-	<0.50	-	<0.50	-
Cobalt	µg/L	n/v	3.8[G] 3.8[H]	<0.50	-	<0.5	-	<0.50	-	<0.50	<0.50	<0.50	<0.50	<0.5	-	<0.5	-	<0.5	-
Copper	µg/L	1,000[D]	69[G] 69[H]	<1.0	-	<1	-	<1.0	-	3.5	<1.0	<1.0	<1.0	<1	-	<1	-	<1	-
Iron	µg/L	300[D]	n/v	<100	-	<100	-	<100	-	<100	<100	<100	<100	<100	-	<100	-	<100	-
Lead	µg/L	10_c[C]	10[G] 10[H]	<0.50	-	<0.5	-	<0.50	-	<0.50	<0.50	<0.50	<0.50	<0.5	-	<0.5	-	<0.5	-
Magnesium	µg/L	n/v	n/v	34,000	-	33,000	-	11,000	-	4,600	5,300	4,800	4,600	4,100	-	5,000	-	5,400	-
Manganese	µg/L	50[D]	n/v	2.7	-	3.8	-	7.6	-	2.8	3.2	2.6	2.6	5.2	-	4	-	3.6	-
Mercury	µg/L	1[C]	0.1[G] 0.29[H]	<0.1	-	<0.1	-	-	0.00016	<0.10	<0.1	-	-	<0.1	-	<0.1	-	<0.1	-
Molybdenum	µg/L	n/v	70[G] 70[H]	2.7	-	3.7	-	22	-	8.6	5.4	3.6	3.7	7.5	-	6.8	-	3.4	-
Nickel	µg/L	n/v	100[G] 100[H]	<1.0	-	1.1	-	<1.0	-	<1.0	<1.0	<1.0	<1.0	<1	-	<1	-	<1	-
Phosphorus	µg/L	n/v	n/v	<100	-	<100	-	<100	-	<100	<100	<100	<100	<100	-	<100	-	<100	-
Potassium	µg/L	n/v	n/v	3,000	-	3,900	-	7,700	-	2,600	2,200	2,200	2,100	2,300	-	2,200	-	1,800	-
Selenium	µg/L	10[C]	10[G] 10[H]	<2.0	-	<2	-	<2.0	-	<2.0	<2.0	<2.0	<2.0	<2	-	<2	-	<2	-
Silicon	µg/L	n/v	n/v	7,200	-	7,400	-	4,900	-	4,000	4,400	4,700	4,800	4,400	-	4,900	-	4,600	-
Silver	µg/L	n/v	1.2[G] 1.2[H]	<0.10	-	<0.1	-	<0.10	-	<0.10	<0.10	<0.10	<0.10	<0.1	-	<0.1	-	<0.1	-
Sodium	µg/L	$200{,}000_g$[D] $20{,}000_g$[F]	490,000[G] 490,000[H]	5,900	-	5,900	-	**27,000[F]**	-	**25,000[F]**	**26,000[F]**	**27,000[F]**	**25,000[F]**	**27,000[F]**	-	**29,000[F]**	-	**27,000[F]**	-
Strontium	µg/L	n/v	n/v	330	-	340	-	470	-	240	290	240	240	210	-	240	-	260	-
Thallium	µg/L	n/v	2[G] 2[H]	<0.050	-	<0.05	-	<0.050	-	<0.050	<0.050	<0.050	<0.050	<0.05	-	<0.05	-	<0.05	-
Titanium	µg/L	n/v	n/v	<5.0	-	<5	-	<5.0	-	<5.0	<5.0	<5.0	<5.0	<5	-	<5.0	-	<5	-
Uranium	µg/L	20[C]	20[G] 20[H]	2.2	-	2.9	-	0.57	-	0.64	0.48	<0.10	<0.10	<0.1	-	<0.1	-	0.11	-
Vanadium	µg/L	n/v	6.2[G] 6.2[H]	<0.50	-	<0.5	-	1.0	-	1.6	2.3	<0.50	<0.50	<0.5	-	<0.5	-	<0.5	-
Zinc	µg/L	5,000[D]	890[G] 890[H]	<5.0	-	<5	-	<5.0	-	<5.0	<5.0	<5.0	<5.0	<5	-	<5.0	-	<5	-
Zirconium	µg/L	n/v	n/v	<1.0	-	<1	-	<1.0	-	-	<1.0	<1.0	<1.0	<1	-	<1	-	<1	-
Polychlorinated Biphenyls																			
Aroclor 1242	µg/L	n/v	$_{s14}$[GH]	<0.05	-	<0.05	-	-	<0.05	<0.05	<0.5	-	-	<0.05	-	<0.05	-	<0.05	-
Aroclor 1248	µg/L	n/v	$_{s14}$[GH]	<0.05	-	<0.05	-	-	<0.05	<0.05	<0.5	-	-	<0.05	-	<0.05	-	<0.05	-
Aroclor 1254	µg/L	n/v	$_{s14}$[GH]	<0.05	-	<0.05	-	-	<0.05	<0.05	<0.5	-	-	<0.05	-	<0.05	-	<0.05	-
Aroclor 1260	µg/L	n/v	$_{s14}$[GH]	<0.05	-	<0.05	-	-	<0.05	<0.05	<0.5	-	-	<0.05	-	<0.05	-	<0.05	-
Polychlorinated Biphenyls (PCBs)	µg/L	3[B]	0.2_{s14}[GH]	<0.05	-	<0.05	-	-	<0.05	<0.05	***<0.5***	-	-	<0.05	-	<0.05	-	<0.05	-

See notes on last page

Table 7
Summary of Groundwater Analytical Results - Monitoring Wells
Clarington Transformer Station
Hydro One Networks Inc.

Sample Location				MW1-13-S (Contd.)				MW2-13-D											
Sample Date				26-Apr-17	26-Apr-17	17-Oct-17	17-Oct-17	13-Dec-13	7-May-14	15-Aug-14	1-Oct-14	26-Nov-14	26-Nov-14	10-Apr-15	10-Apr-15	7-Oct-15	7-Oct-15	14-Apr-16	14-Apr-16
Sample ID				WG-160900764-20170426-RD-12	WG-160900764-20170426-RD-12A	WG-160900764-20171017-CF05	WG-160900764-20171017-CF05A	CLARS1213TWG-160960745-20131213-JK3	MW2-13-D	MW2-13-D	WG-160900764-20141002-JK11	WG-160900764-20141126 RD01	WG-160900764-20141126 RD01A	WG-160900764-20150410-RD11	WG-160900764-20150410-RD11A	WG-160900764-20151007-RD16	WG-160900764-20151007-RD16A	WG-160900764-20160414-AM15	WG-160900764-20160414-AM15A
Sampling Company				STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC
Laboratory				MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX
Laboratory Work Order				B785281	B785281	B7N0947	B7N0947	B3L6734	B475182	B4E7727	B4I4645	B4M4069	B4M4069	B563828	B563828	B5K5143	B5K5143	B674631	B674631
Laboratory Sample ID				EHF900	EHF901	FIY621	FIY622	UH4003	VV0846	XD5195	XV9685	YP9569	YP9570	ABZ562	ABZ563	BCZ972	BCZ973	CER543	CER544
Filtered				Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC	Lab Filtered SVOC	Lab Filtered SVOC	Lab Filtered SVOC	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC
Sample Type	Units	ODWS	Ontario SCS																
Semi-Volatile Organic Compounds																			
Phthalates																			
Bis(2-Ethylhexyl)phthalate (DEHP)	µg/L	n/v	10[G] 10[H]	<1	<1	<1	<1	-	4	<1	<1	1	<1	2	<1	1	<1	<1	<1
Diethyl Phthalate	µg/L	n/v	30[G] 30[H]	<0.1	<0.1	<0.1	<0.1	-	0.2	<0.1	<0.1	0.2	0.2	<0.1	0.1	<0.1	<0.1	<0.1	<0.1
Dimethyl Phthalate	µg/L	n/v	30[G] 30[H]	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Polycyclic Aromatic Hydrocarbons																			
Acenaphthene	µg/L	n/v	4.1[G] 4.1[H]	<0.2	<0.2	<0.2	<0.2	-	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Acenaphthylene	µg/L	n/v	1[G] 1[H]	<0.2	<0.2	<0.2	<0.2	-	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Anthracene	µg/L	n/v	1[G] 1[H]	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(a)anthracene	µg/L	n/v	1[G] 1[H]	<0.05	<0.05	<0.05	<0.05	-	0.06	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(a)pyrene	µg/L	0.01[C]	0.01[G] 0.01[H]	<0.01	<0.01	<0.01	<0.01	-	<0.01	<0.01	<0.01	**0.02[CGH]**	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Benzo(b/j)fluoranthene	µg/L	n/v	0.1$_{s2}$[GH]	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(g,h,i)perylene	µg/L	n/v	0.2[G] 0.2[H]	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(k)fluoranthene	µg/L	n/v	0.1[G] 0.1[H]	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Chrysene	µg/L	n/v	0.1[G] 0.1[H]	<0.05	<0.05	<0.05	<0.05	-	0.07	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Dibenzo(a,h)anthracene	µg/L	n/v	0.2[G] 0.2[H]	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	µg/L	n/v	0.41[G] 0.41[H]	<0.2	<0.2	<0.2	<0.2	-	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Fluorene	µg/L	n/v	120[G] 120[H]	<0.2	<0.2	<0.2	<0.2	-	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Indeno(1,2,3-cd)pyrene	µg/L	n/v	0.2[G] 0.2[H]	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Methylnaphthalene (Total)	µg/L	n/v	3.2$_{s3}$[GH]	<0.28	<0.28	<0.28	<0.28	-	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28
Methylnaphthalene, 1-	µg/L	n/v	$_{s3}$[GH]	<0.2	<0.2	<0.2	<0.2	-	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Methylnaphthalene, 2-	µg/L	n/v	$_{s3}$[GH]	<0.2	<0.2	<0.2	<0.2	-	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Naphthalene	µg/L	n/v	7[G] 11[H]	<0.2	<0.2	<0.2	<0.2	-	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Phenanthrene	µg/L	n/v	1[G] 1[H]	<0.1	<0.1	<0.1	<0.1	-	0.2	<0.1	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Pyrene	µg/L	n/v	4.1[G] 4.1[H]	<0.05	<0.05	<0.05	<0.05	-	0.13	<0.05	0.12	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Remaining Semi-Volatile Organic Compounds																			
Biphenyl, 1,1'- (Biphenyl)	µg/L	n/v	0.5[G] 0.5[H]	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Bis(2-Chloroethyl)ether	µg/L	n/v	5[G] 5[H]	<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Bis(2-Chloroisopropyl)ether	µg/L	n/v	120[G] 120[H]	<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Chloroaniline, 4-	µg/L	n/v	10[G] 10[H]	<1	<1	<1	<1	-	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chlorophenol, 2- (ortho-Chlorophenol)	µg/L	n/v	8.9[G] 8.9[H]	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dichlorobenzidine, 3,3'-	µg/L	n/v	0.5[G] 0.5[H]	<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Dichlorophenol, 2,4-	µg/L	900[C] 0.3$_t$[D]	20[G] 20[H]	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dimethylphenol, 2,4-	µg/L	n/v	59[G] 59[H]	<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Dinitrophenol, 2,4-	µg/L	n/v	10[G] 10[H]	<2	<2	<2	<2	-	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Dinitrotoluene, 2,4-	µg/L	n/v	5$_{t13}$[GH]	<0.3	<0.3	<0.3	<0.3	-	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Dinitrotoluene, 2,6-	µg/L	n/v	5$_{t13}$[GH]	<0.3	<0.3	<0.3	<0.3	-	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Pentachlorophenol	µg/L	60[C] 30$_t$[D]	30[G] 30[H]	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Phenol	µg/L	n/v	890[G] 890[H]	<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Trichlorobenzene, 1,2,4-	µg/L	n/v	3[G] 70[H]	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Trichlorophenol, 2,4,5-	µg/L	n/v	8.9[G] 8.9[H]	<0.2	<0.2	<0.2	<0.2	-	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Trichlorophenol, 2,4,6-	µg/L	5[C] 2$_t$[D]	2[G] 2[H]	<0.2	<0.2	<0.2	<0.2	-	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2

See notes on last page

Table 7
Summary of Groundwater Analytical Results - Monitoring Wells
Clarington Transformer Station
Hydro One Networks Inc.

Sample Location				MW1-13-S (Contd.)				MW2-13-D											
Sample Date				26-Apr-17	26-Apr-17	17-Oct-17	17-Oct-17	13-Dec-13	7-May-14	15-Aug-14	1-Oct-14	26-Nov-14	26-Nov-14	10-Apr-15	10-Apr-15	7-Oct-15	7-Oct-15	14-Apr-16	14-Apr-16
Sample ID				WG-160900764-20170426-RD-12	WG-160900764-20170426-RD-12A	WG-160900764-20171017-CF05	WG-160900764-20171017-CF05A	CLARS1213TWG-160960745-20131213-JK3	MW2-13-D	MW2-13-D	WG-160900764-20141002-JK11	WG-160900764-20141126 RD01	WG-160900764-20141126 RD01A	WG-160900764-20150410-RD11	WG-160900764-20150410-RD11A	WG-160900764-20151007-RD16	WG-160900764-20151007-RD16A	WG-160900764-20160414-AM15	WG-160900764-20160414-AM15A
Sampling Company				STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC
Laboratory				MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX
Laboratory Work Order				B785281	B785281	B7N0947	B7N0947	B3L6734	B475182	B4E7727	B4I4645	B4M4069	B4M4069	B563828	B563828	B5K5143	B5K5143	B674631	B674631
Laboratory Sample ID				EHF900	EHF901	FIY621	FIY622	UH4003	VV0846	XD5195	XV9685	YP9569	YP9570	ABZ562	ABZ563	BCZ972	BCZ973	CER543	CER544
Filtered				Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC	Lab Filtered SVOC	Lab Filtered SVOC	Lab Filtered SVOC	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC
Sample Type	Units	ODWS	Ontario SCS																
Volatile Organic Compounds																			
Acetone	µg/L	n/v	2,700[G] 2,700[H]	<10	-	<10	-	-	<10	<10	<10	<10	-	<10	-	<10	-	<10	-
Bromodichloromethane	µg/L	n/v	16[G] 16[H]	<0.50	-	<0.50	-	-	<0.50	<0.50	<0.50	<0.50	-	<0.5	-	<0.50	-	<0.50	-
Bromoform (Tribromomethane)	µg/L	n/v	5[G] 25[H]	<1.0	-	<1.0	-	-	<1.0	<1.0	<1.0	<1.0	-	<1	-	<1.0	-	<1.0	-
Bromomethane (Methyl bromide)	µg/L	n/v	0.89[G] 0.89[H]	<0.50	-	<0.50	-	-	<0.50	<0.50	<0.50	<0.50	-	<0.5	-	<0.50	-	<0.50	-
Carbon Tetrachloride (Tetrachloromethane)	µg/L	2[C]	0.2[G] 0.79[H]	<0.20	-	<0.20	-	-	<0.20	<0.20	<0.20	<0.20	-	<0.2	-	<0.20	-	<0.20	-
Chlorobenzene (Monochlorobenzene)	µg/L	80[C] 30[D]	30[G] 30[H]	<0.20	-	<0.20	-	-	<0.20	<0.20	<0.20	<0.20	-	<0.2	-	<0.20	-	<0.20	-
Chloroform (Trichloromethane)	µg/L	n/v	2[G] 2.4[H]	<0.20	-	<0.20	-	-	<0.20	<0.20	<0.20	<0.20	-	<0.2	-	<0.20	-	<0.20	-
Dibromochloromethane	µg/L	n/v	25[G] 25[H]	<0.50	-	<0.50	-	-	<0.50	<0.50	<0.50	<0.50	-	<0.5	-	<0.50	-	<0.50	-
Dichlorobenzene, 1,2-	µg/L	200[C] 3[D]	3[G] 3[H]	<0.50	-	<0.50	-	-	<0.50	<0.50	<0.50	<0.50	-	<0.5	-	<0.50	-	<0.50	-
Dichlorobenzene, 1,3-	µg/L	n/v	59[G] 59[H]	<0.50	-	<0.50	-	-	<0.50	<0.50	<0.50	<0.50	-	<0.5	-	<0.50	-	<0.50	-
Dichlorobenzene, 1,4-	µg/L	5[C] 1[D]	0.5[G] 1[H]	<0.50	-	<0.50	-	-	<0.50	<0.50	<0.50	<0.50	-	<0.5	-	<0.50	-	<0.50	-
Dichlorodifluoromethane (Freon 12)	µg/L	n/v	590[G] 590[H]	<1.0	-	<1.0	-	-	<1.0	<1.0	<1.0	<1.0	-	<1	-	<1.0	-	<1.0	-
Dichloroethane, 1,1-	µg/L	n/v	5[G] 5[H]	<0.20	-	<0.20	-	-	<0.20	<0.20	<0.20	<0.20	-	<0.2	-	<0.20	-	<0.20	-
Dichloroethane, 1,2-	µg/L	5[B]	0.5[G] 1.6[H]	<0.50	-	<0.50	-	-	<0.50	<0.50	<0.50	<0.50	-	<0.5	-	<0.50	-	<0.50	-
Dichloroethene, 1,1-	µg/L	14[C]	0.5[G] 1.6[H]	<0.20	-	<0.20	-	-	<0.20	<0.20	<0.20	<0.20	-	<0.2	-	<0.20	-	<0.20	-
Dichloroethene, cis-1,2-	µg/L	n/v	1.6[G] 1.6[H]	<0.50	-	<0.50	-	-	<0.50	<0.50	<0.50	<0.50	-	<0.5	-	<0.50	-	<0.50	-
Dichloroethene, trans-1,2-	µg/L	n/v	1.6[G] 1.6[H]	<0.50	-	<0.50	-	-	<0.50	<0.50	<0.50	<0.50	-	<0.5	-	<0.50	-	<0.50	-
Dichloropropane, 1,2-	µg/L	n/v	0.58[G] 5[H]	<0.20	-	<0.20	-	-	<0.20	<0.20	<0.20	<0.20	-	<0.2	-	<0.20	-	<0.20	-
Dichloropropene, 1,3- (sum of isomers cis + trans)	µg/L	n/v	0.5[511][GH]	<0.50	-	<0.50	-	-	<0.50	<0.50	<0.50	<0.50	-	<0.5	-	<0.50	-	<0.50	-
Dichloropropene, cis-1,3-	µg/L	n/v	[511][GH]	<0.30	-	<0.30	-	-	<0.30	<0.30	<0.30	<0.30	-	<0.3	-	<0.30	-	<0.30	-
Dichloropropene, trans-1,3-	µg/L	n/v	[511][GH]	<0.40	-	<0.40	-	-	<0.40	<0.40	<0.40	<0.40	-	<0.4	-	<0.40	-	<0.40	-
Ethylene Dibromide (Dibromoethane, 1,2-)	µg/L	n/v	0.2[G] 0.2[H]	<0.20	-	<0.20	-	-	<0.20	<0.20	<0.20	<0.20	-	<0.2	-	<0.20	-	<0.20	-
Hexane (n-Hexane)	µg/L	n/v	5[G] 51[H]	<1.0	-	<1.0	-	-	<1.0	<1.0	<1.0	<1.0	-	<1	-	<1.0	-	<1.0	-
Methyl Ethyl Ketone (MEK) (2-Butanone)	µg/L	n/v	1,800[G] 1,800[H]	<10	-	<10	-	-	<10	<10	<10	<10	-	<10	-	<10	-	<10	-
Methyl Isobutyl Ketone (MIBK)	µg/L	n/v	640[G] 640[H]	<5.0	-	<5.0	-	-	<5.0	<5.0	<5.0	<5.0	-	<5	-	<5.0	-	<5.0	-
Methyl tert-butyl ether (MTBE)	µg/L	n/v	15[G] 15[H]	<0.50	-	<0.50	-	-	<0.50	<0.50	<0.50	<0.50	-	<0.5	-	<0.50	-	<0.50	-
Methylene Chloride (Dichloromethane)	µg/L	50[C]	26[G] 50[H]	<2.0	-	<2.0	-	-	<2.0	<2.0	<2.0	<2.0	-	<2	-	<2.0	-	<2.0	-
Styrene	µg/L	n/v	5.4[G] 5.4[H]	<0.50	-	<0.50	-	-	<0.50	<0.50	<0.50	<0.50	-	<0.5	-	<0.50	-	<0.50	-
Tetrachloroethane, 1,1,1,2-	µg/L	n/v	1.1[G] 1.1[H]	<0.50	-	<0.50	-	-	<0.50	<0.50	<0.50	<0.50	-	<0.5	-	<0.50	-	<0.50	-
Tetrachloroethane, 1,1,2,2-	µg/L	n/v	0.5[G] 1[H]	<0.50	-	<0.50	-	-	<0.50	<0.50	<0.50	<0.50	-	<0.5	-	<0.50	-	<0.50	-
Tetrachloroethene (PCE)	µg/L	30[C]	0.5[G] 1.6[H]	<0.20	-	<0.20	-	-	<0.20	<0.20	<0.20	<0.20	-	<0.2	-	<0.20	-	<0.20	-
Trichloroethane, 1,1,1-	µg/L	n/v	23[G] 200[H]	<0.20	-	<0.20	-	-	<0.20	<0.20	<0.20	<0.20	-	<0.2	-	<0.20	-	<0.20	-
Trichloroethane, 1,1,2-	µg/L	n/v	0.5[G] 4.7[H]	<0.50	-	<0.50	-	-	<0.50	<0.50	<0.50	<0.50	-	<0.5	-	<0.50	-	<0.50	-
Trichloroethene (TCE)	µg/L	5[C]	0.5[G] 1.6[H]	<0.20	-	<0.20	-	-	<0.20	<0.20	<0.20	<0.20	-	<0.2	-	<0.20	-	<0.20	-
Trichlorofluoromethane (Freon 11)	µg/L	n/v	150[G] 150[H]	<0.50	-	<0.50	-	-	<0.50	<0.50	<0.50	<0.50	-	<0.5	-	<0.50	-	<0.50	-
Trihalomethanes	µg/L	100[e][C]	n/v	-	-	<1.0	-	-	-	-	-	-	-	-	-	<0.20	-	-	-
Vinyl Chloride	µg/L	1[C]	0.5[G] 0.5[H]	<0.20	-	<0.20	-	-	<0.20	<0.20	<0.20	<0.20	-	<0.2	-	<0.20	-	<0.20	-

See notes on last page

Table 7
Summary of Groundwater Analytical Results - Monitoring Wells
Clarington Transformer Station
Hydro One Networks Inc.

Sample Location				MW2-13-D (Contd.)						MW2-13-S									
Sample Date				1-Nov-16	1-Nov-16	25-Apr-17	25-Apr-17	18-Oct-17	18-Oct-17	13-Dec-13	7-May-14	15-Aug-14	1-Oct-14	20-Nov-14	20-Nov-14	26-Nov-14	26-Nov-14	14-Apr-15	14-Apr-15
Sample ID				WG-160900764-20161101-AM04	WG-160900764-20161101-AM04A	WG-160900764-20170425-KR-10	WG-160900764-20170425-KR-10A	WG-160900764-20171018-RD13	WG-160900764-20171018-RD13A	CLARS1213TWG-160960745-20131213-JK4	MW2-13-S	MW2-13-S	WG-160900764-20141002-JK10	WG-160900764-20141120-CD02	WG-160900764-20141120-CD02A	WG-160900764-20141126 RD02	WG-160900764-20141126 RD02A	WG-160900764-20150414-RD15	WG-160900764-20150414-RD15A
Sampling Company				STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC
Laboratory				MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX
Laboratory Work Order				B6N7980	B6N7980	B783695	B783695	B7N2183	B7N2183	B3L6734	B475182	B4E7727	B4I4645	B4M0745	B4M0745	B4M4069	B4M4069	B565881	B565881
Laboratory Sample ID				DJK306	DJK307	EGX374	EGX379	FJF449	FJF450	UH4004	VV0845	XD5196	XV9684	YO3442	YO3443	YP9571	YP9572	ACK475	ACK476
Filtered				Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC	Lab Filtered SVOC	Lab Filtered SVOC	Lab Filtered SVOC	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC
Sample Type	Units	ODWS	Ontario SCS																
General Chemistry																			
Acidity	mg/L	n/v	n/v	<10	-	<10	-	<5.0	-	-	<10	<10	<10	-	-	-	-	<10	-
Alkalinity, Bicarbonate (as CaCO3)	mg/L	n/v	n/v	89	-	89	-	90	-	200	190	190	190	-	-	190	-	180	-
Alkalinity, Carbonate (as CaCO3)	mg/L	n/v	n/v	1.0	-	1.5	-	1.9	-	2.0	2.5	2.4	2.2	-	-	2.3	-	<1	-
Alkalinity, Total (as CaCO3)	mg/L	30-500[E]	n/v	90	-	91	-	92	-	200	190	200	190	-	-	190	-	180	-
Ammonia (as N)	mg/L	n/v	n/v	<0.050	-	<0.050	-	<0.050	-	0.16	0.15	0.12	0.23	-	-	<0.050	-	0.052	-
Anion Sum	meq/L	n/v	n/v	2.02	-	2.00	-	2.02	-	5.12	4.51	4.63	4.49	-	-	4.46	-	4.26	-
Cation Sum	meq/L	n/v	n/v	1.91	-	1.99	-	2.07	-	5.11	52.6	4.47	4.55	-	-	4.49	-	4.27	-
Chloride	mg/L	250[D]	790[G] 790[H]	1.8	-	1.4	-	<1.0	-	9	6	5	5	-	-	5	-	5	-
Cyanide (Free)	µg/L	200[C]	52[G] 52[H]	<1	-	<1	-	<1	-	-	<2	<2	<2	-	-	-	-	<2	-
Dissolved Organic Carbon (DOC)	mg/L	5[D]	n/v	1.0	-	0.78	-	0.78	-	1.3	1.2	0.93	1.5	-	-	1.2	-	0.64	-
Electrical Conductivity, Lab	µmhos/cm	n/v	n/a[GH]	190	-	190	-	190	-	490	390	410	410	-	-	410	-	380	-
Fluoride	mg/L	1.5_b[C]	n/v	0.79	-	0.85	-	0.81	-	-	0.27	0.27	0.27	-	-	-	-	0.27	-
Hardness (as CaCO3)	mg/L	80-100[E]	n/v	**42[E]**	-	**41[E]**	-	**45[E]**	-	**210[E]**	**2,600[E]**	**190[E]**	**200[E]**	-	-	**200[E]**	-	**190[E]**	-
Ion Balance	%	n/v	n/v	NC	-	NC	-	NC	-	0.110	84.2	1.85	0.610	-	-	0.290	-	0.160	-
Langelier Index (at 20 C)	none	n/v	n/v	-0.410	-	-0.193	-	-0.0640	-	0.606	2.02	0.565	0.497	-	-	0.538	-	0.0180	-
Langelier Index (at 4 C)	none	n/v	n/v	-0.660	-	-0.444	-	-0.315	-	0.357	1.77	0.316	0.249	-	-	0.289	-	-0.232	-
Nitrate (as N)	mg/L	10.0_d[C]	n/v	<0.10	-	<0.10	-	<0.10	-	0.18	<0.10	<0.10	<0.10	-	-	<0.10	-	<0.1	-
Nitrate + Nitrite (as N)	mg/L	10.0_d[C]	n/v	<0.10	-	<0.10	-	<0.10	-	0.18	<0.10	<0.10	<0.10	-	-	<0.10	-	-	-
Nitrite (as N)	mg/L	1.0_d[C]	n/v	<0.010	-	<0.010	-	<0.010	-	<0.010	<0.010	<0.010	<0.010	-	-	<0.010	-	<0.01	-
Orthophosphate(as P)	mg/L	n/v	n/v	<0.010	-	<0.010	-	<0.010	-	<0.010	<0.010	<0.010	<0.010	-	-	<0.010	-	<0.01	-
pH	S.U.	6.5-8.5[E]	n/v	8.08	-	8.26	-	8.36	-	8.03	8.15	8.11	8.09	-	-	8.11	-	7.63	-
Saturation pH (at 20 C)	none	n/v	n/v	8.49	-	8.45	-	8.42	-	7.42	6.13	7.55	7.59	-	-	7.57	-	7.61	-
Saturation pH (at 4 C)	none	n/v	n/v	8.74	-	8.70	-	8.67	-	7.67	6.38	7.80	7.84	-	-	7.82	-	7.86	-
Sulfate	mg/L	500_h[D]	n/v	6.3	-	4.9	-	6.3	-	39	27	26	23	-	-	23	-	22	-
Total Dissolved Solids	mg/L	500[D]	n/v	166	-	128	-	115	-	-	228	300	380	-	-	-	-	-	-
Total Dissolved Solids (Calculated)	mg/L	500[D]	n/v	110	-	110	-	120	-	-	-	-	-	-	-	240	-	-	-
Total Organic Carbon	mg/L	n/v	n/v	1.2	-	0.77	-	0.83	-	-	2.7	4.2	2.1	-	-	-	-	0.88	-
Total Suspended Solids	mg/L	n/v	n/v	15	-	13	-	<10	-	-	3,200	2,100	5,900	2,800	-	45	-	15	-
Turbidity, Lab	NTU	5_j[D,E]	n/v	5.0	-	**11[D]**	-	**11[D]**	-	-	**550[D]**	**1,100[D]**	**3,800[D]**	**420[D]**	-	**34[D]**	-	**6.9[D]**	-
BTEX and Petroleum Hydrocarbons																			
Benzene	µg/L	1[C]	0.5^{G} 5[H]	<0.20	-	<0.20	-	<0.20	-	<0.20	<0.20	<0.20	<0.20	<0.20	-	<0.20	-	<0.2	-
Toluene	µg/L	24[D]	24^{G} 22^{H}	0.33	-	0.22	-	<0.20	-	0.83	<0.20	<0.20	<0.20	<0.20	-	<0.20	-	<0.2	-
Ethylbenzene	µg/L	2.4[D]	2.4^{G} 2.4^{H}	<0.20	-	<0.20	-	<0.20	-	<0.20	<0.20	<0.20	<0.20	<0.20	-	<0.20	-	<0.2	-
Xylene, m & p-	µg/L	300_{s1}[D]	$_{s1}$[GH]	0.26	-	<0.20	-	<0.20	-	0.70	0.23	0.24	<0.40	<0.20	-	<0.20	-	<0.2	-
Xylene, o-	µg/L	300_{s1}[D]	$_{s1}$[GH]	<0.20	-	<0.20	-	<0.20	-	<0.20	<0.20	<0.20	<0.20	<0.20	-	<0.20	-	<0.2	-
Xylenes, Total	µg/L	300[D]	72_{s1}[G] 300_{s1}[H]	0.26	-	<0.20	-	<0.20	-	0.70	0.23	0.24	<0.40	<0.20	-	<0.20	-	<0.2	-
PHC F1 (C6-C10 range)	µg/L	n/v	$_{s7}$[GH]	<25	-	<25	-	<25	-	<25	<25	<25	<25	-	-	-	-	<25	-
PHC F1 (C6-C10 range) minus BTEX	µg/L	n/v	420_{s7}[GH]	<25	-	<25	-	<25	-	<25	<25	<25	<25	-	-	-	-	<25	-
PHC F2 (>C10-C16 range)	µg/L	n/v	150_{s15}[GH]	<100	-	<100	-	<100	-	<100	<100	<100	<100	-	-	-	-	<100	-
PHC F3 (>C16-C34 range)	µg/L	n/v	500_{s8}[GH]	<200	-	<200	-	<200	-	<200	<200	<200	<200	-	-	-	-	<200	-
PHC F4 (>C34-C50 range)	µg/L	n/v	500_{s10}[GH]	<200	-	<200	-	<200	-	<200	<200	<200	<200	-	-	-	-	<200	-
Chromatogram to baseline at C50	none	n/v	n/v	YES	-	YES	-	YES	-	YES	YES	YES	YES	-	-	-	-	YES	-

See notes on last page

Table 7
Summary of Groundwater Analytical Results - Monitoring Wells
Clarington Transformer Station
Hydro One Networks Inc.

Sample Location				MW2-13-D (Contd.)						MW2-13-S									
Sample Date				1-Nov-16	1-Nov-16	25-Apr-17	25-Apr-17	18-Oct-17	18-Oct-17	13-Dec-13	7-May-14	15-Aug-14	1-Oct-14	20-Nov-14	20-Nov-14	26-Nov-14	26-Nov-14	14-Apr-15	14-Apr-15
Sample ID				WG-160900764-20161101-AM04	WG-160900764-20161101-AM04A	WG-160900764-20170425-KR-10	WG-160900764-20170425-KR-10A	WG-160900764-20171018-RD13	WG-160900764-20171018-RD13A	CLARS1213TWG-160960745-20131213-JK4	MW2-13-S	MW2-13-S	WG-160900764-20141002-JK10	WG-160900764-20141120-CD02	WG-160900764-20141120-CD02A	WG-160900764-20141126 RD02	WG-160900764-20141126 RD02A	WG-160900764-20150414-RD15	WG-160900764-20150414-RD15A
Sampling Company				STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC
Laboratory				MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX
Laboratory Work Order				B6N7980	B6N7980	B783695	B783695	B7N2183	B7N2183	B3L6734	B475182	B4E7727	B4I4645	B4M0745	B4M0745	B4M4069	B4M4069	B565881	B565881
Laboratory Sample ID				DJK306	DJK307	EGX374	EGX379	FJF449	FJF450	UH4004	VV0845	XD5196	XV9684	YO3442	YO3443	YP9571	YP9572	ACK475	ACK476
Filtered				Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC	Lab Filtered SVOC	Lab Filtered SVOC	Lab Filtered SVOC	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC
Sample Type	Units	ODWS	Ontario SCS																
Metals																			
Aluminum	µg/L	100[E]	n/v	5.9	-	6.9	-	6.6	-	<5.0	-	<5.0	7.3	-	-	<5.0	<5.0	<5	-
Antimony	µg/L	6[B]	6[G] 6[H]	<0.5	-	<0.50	-	<0.5	-	<0.50	-	<0.50	<0.50	-	-	<0.50	<0.50	<0.5	-
Arsenic	µg/L	25[B]	25[G] 25[H]	<1	-	<1.0	-	<1	-	<1.0	-	<1.0	<1.0	-	-	<1.0	<1.0	<1	-
Barium	µg/L	1,000[C]	1,000[G] 1,000[H]	18	-	18	-	19	-	77	-	53	58	-	-	60	58	47	-
Beryllium	µg/L	n/v	4[G] 4[H]	<0.5	-	<0.50	-	<0.5	-	<0.50	-	<0.50	<0.50	-	-	<0.50	<0.50	<0.5	-
Boron	µg/L	5,000[B]	5,000[G] 5,000[H]	110	-	130	-	130	-	49	-	53	54	-	-	52	45	23	-
Cadmium	µg/L	5[C]	2.1[G] 2.1[H]	<0.1	-	<0.10	-	<0.1	-	<0.10	-	<0.10	<0.10	-	-	<0.10	<0.10	<0.1	-
Calcium	µg/L	n/v	n/v	8,500	-	8,800	-	9,200	-	48,000	-	38,000	37,000	-	-	35,000	34,000	33,000	-
Chromium	µg/L	50[C]	50[G] 50[H]	<5	-	<5.0	-	<5	-	<5.0	-	<5.0	<5.0	-	-	<5.0	<5.0	<5	-
Chromium (Hexavalent)	µg/L	n/v	25[G] 25[H]	<0.50	-	<0.50	-	<0.50	-	-	<0.50	<0.50	<0.50	-	-	-	-	<0.5	-
Cobalt	µg/L	n/v	3.8[G] 3.8[H]	<0.5	-	<0.50	-	<0.5	-	<0.50	-	<0.50	<0.50	-	-	<0.50	<0.50	<0.5	-
Copper	µg/L	1,000[D]	69[G] 69[H]	<1	-	<1.0	-	<1	-	<1.0	-	<1.0	<1.0	-	-	1.7	<1.0	<1	-
Iron	µg/L	300[D]	n/v	<100	-	<100	-	<100	-	<100	-	<100	<100	-	-	<100	<100	<100	-
Lead	µg/L	10[C]	10[G] 10[H]	<0.5	-	<0.50	-	<0.5	-	<0.50	-	<0.50	<0.50	-	-	<0.50	<0.50	<0.5	-
Magnesium	µg/L	n/v	n/v	5,000	-	4,600	-	5,300	-	22,000	-	24,000	25,000	-	-	26,000	25,000	25,000	-
Manganese	µg/L	50[D]	n/v	3.2	-	2.6	-	3.1	-	<2.0	-	<2.0	<2.0	-	-	13	12	49	-
Mercury	µg/L	1[C]	0.1[G] 0.29[H]	<0.1	-	<0.1	-	<0.1	-	-	0.00011	<0.10	<0.1	-	-	-	-	<0.1	-
Molybdenum	µg/L	n/v	70[G] 70[H]	3.1	-	5.6	-	3.8	-	20	-	4.8	4.5	-	-	3.5	3.4	2.5	-
Nickel	µg/L	n/v	100[G] 100[H]	<1	-	<1.0	-	<1	-	<1.0	-	<1.0	<1.0	-	-	<1.0	<1.0	<1	-
Phosphorus	µg/L	n/v	n/v	<100	-	<100	-	<100	-	<100	-	<100	<100	-	-	<100	<100	<100	-
Potassium	µg/L	n/v	n/v	2,100	-	2,000	-	1,800	-	5,600	-	3,000	3,300	-	-	2,900	2,600	2,300	-
Selenium	µg/L	10[C]	10[G] 10[H]	<2	-	<2.0	-	<2	-	<2.0	-	<2.0	<2.0	-	-	<2.0	<2.0	<2	-
Silicon	µg/L	n/v	n/v	4,500	-	4,400	-	4,900	-	6,200	-	7,700	8,200	-	-	7,700	7,600	6,800	-
Silver	µg/L	n/v	1.2[G] 1.2[H]	<0.1	-	<0.10	-	<0.1	-	<0.10	-	<0.10	<0.10	-	-	<0.10	<0.10	<0.1	-
Sodium	µg/L	200,000$_g$[D] 20,000$_g$[F]	490,000[G] 490,000[H]	**23,000[F]**	-	**26,000[F]**	-	**26,000[F]**	-	17,000	-	11,000	12,000	-	-	11,000	10,000	10,000	-
Strontium	µg/L	n/v	n/v	250	-	230	-	270	-	400	-	460	500	-	-	520	510	470	-
Thallium	µg/L	n/v	2[G] 2[H]	<0.05	-	<0.050	-	<0.05	-	<0.050	-	<0.050	<0.050	-	-	<0.050	<0.050	<0.05	-
Titanium	µg/L	n/v	n/v	<5	-	<5.0	-	<5	-	<5.0	-	<5.0	<5.0	-	-	<5.0	<5.0	<5	-
Uranium	µg/L	20[C]	20[G] 20[H]	<0.1	-	<0.10	-	<0.1	-	1.4	-	1.2	1.0	-	-	0.74	0.76	0.6	-
Vanadium	µg/L	n/v	6.2[G] 6.2[H]	<0.5	-	<0.50	-	<0.5	-	1.0	-	1.5	1.6	-	-	0.73	0.77	<0.5	-
Zinc	µg/L	5,000[D]	890[G] 890[H]	<5	-	<5.0	-	<5	-	<5.0	-	<5.0	10	-	-	5.6	<5.0	<5	-
Zirconium	µg/L	n/v	n/v	<1	-	<1.0	-	<1	-	<1.0	-	-	<1.0	-	-	<1.0	<1.0	<1	-
Polychlorinated Biphenyls																			
Aroclor 1242	µg/L	n/v	$_{s14}$[GH]	<0.05	-	<0.05	-	<0.05	-	-	<0.05	<0.05	<0.05	-	-	-	-	<0.05	-
Aroclor 1248	µg/L	n/v	$_{s14}$[GH]	<0.05	-	<0.05	-	<0.05	-	-	<0.05	<0.05	<0.05	-	-	-	-	<0.05	-
Aroclor 1254	µg/L	n/v	$_{s14}$[GH]	<0.05	-	<0.05	-	<0.05	-	-	<0.05	<0.05	<0.05	-	-	-	-	<0.05	-
Aroclor 1260	µg/L	n/v	$_{s14}$[GH]	<0.05	-	<0.05	-	<0.05	-	-	<0.05	<0.05	<0.05	-	-	-	-	<0.05	-
Polychlorinated Biphenyls (PCBs)	µg/L	3[B]	0.2$_{s14}$[GH]	<0.05	-	<0.05	-	<0.05	-	-	<0.05	<0.05	<0.05	-	-	-	-	<0.05	-

See notes on last page

Table 7
Summary of Groundwater Analytical Results - Monitoring Wells
Clarington Transformer Station
Hydro One Networks Inc.

Sample Location				MW2-13-D (Contd.)										MW2-13-S					
Sample Date				1-Nov-16	1-Nov-16	25-Apr-17	25-Apr-17	18-Oct-17	18-Oct-17	13-Dec-13	7-May-14	15-Aug-14	1-Oct-14	20-Nov-14	20-Nov-14	26-Nov-14	26-Nov-14	14-Apr-15	14-Apr-15
Sample ID				WG-160900764-20161101-AM04	WG-160900764-20161101-AM04A	WG-160900764-20170425-KR-10	WG-160900764-20170425-KR-10A	WG-160900764-20171018-RD13	WG-160900764-20171018-RD13A	CLARS1213TWG-160960745-20131213-JK4	MW2-13-S	MW2-13-S	WG-160900764-20141002-JK10	WG-160900764-20141120-CD02	WG-160900764-20141120-CD02A	WG-160900764-20141126 RD02	WG-160900764-20141126 RD02A	WG-160900764-20150414-RD15	WG-160900764-20150414-RD15A
Sampling Company				STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC
Laboratory				MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX
Laboratory Work Order				B6N7980	B6N7980	B783695	B783695	B7N2183	B7N2183	B3L6734	B475182	B4E7727	B4I4645	B4M0745	B4M0745	B4M4069	B4M4069	B565881	B565881
Laboratory Sample ID				DJK306	DJK307	EGX374	EGX379	FJF449	FJF450	UH4004	VV0845	XD5196	XV9684	YO3442	YO3443	YP9571	YP9572	ACK475	ACK476
Filtered				Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC	Lab Filtered SVOC	Lab Filtered SVOC	Lab Filtered SVOC	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC
Sample Type	Units	ODWS	Ontario SCS																
Semi-Volatile Organic Compounds																			
Phthalates																			
Bis(2-Ethylhexyl)phthalate (DEHP)	µg/L	n/v	10[G] 10[H]	<1	<1	<1	<1	<1	<1	-	16[GH]	4	5	12[GH]	<1	2	<1	<1	<1
Diethyl Phthalate	µg/L	n/v	30[G] 30[H]	0.1	0.1	<0.1	<0.1	<0.1	<0.1	-	0.2	0.5	0.2	<0.1	0.3	0.3	0.1	<0.1	<0.1
Dimethyl Phthalate	µg/L	n/v	30[G] 30[H]	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Polycyclic Aromatic Hydrocarbons																			
Acenaphthene	µg/L	n/v	4.1[G] 4.1[H]	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	-	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Acenaphthylene	µg/L	n/v	1[G] 1[H]	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	-	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Anthracene	µg/L	n/v	1[G] 1[H]	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(a)anthracene	µg/L	n/v	1[G] 1[H]	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(a)pyrene	µg/L	0.01[C]	0.01[G] 0.01[H]	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	-	<0.01	<0.01	0.01	0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Benzo(b/j)fluoranthene	µg/L	n/v	0.1_{s2}[GH]	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(g,h,i)perylene	µg/L	n/v	0.2[G] 0.2[H]	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(k)fluoranthene	µg/L	n/v	0.1[G] 0.1[H]	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Chrysene	µg/L	n/v	0.1[G] 0.1[H]	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Dibenzo(a,h)anthracene	µg/L	n/v	0.2[G] 0.2[H]	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	µg/L	n/v	0.41[G] 0.41[H]	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	-	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Fluorene	µg/L	n/v	120[G] 120[H]	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	-	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Indeno(1,2,3-cd)pyrene	µg/L	n/v	0.2[G] 0.2[H]	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Methylnaphthalene (Total)	µg/L	n/v	3.2_{s3}[GH]	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	-	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28
Methylnaphthalene, 1-	µg/L	n/v	$_{s3}$[GH]	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	-	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Methylnaphthalene, 2-	µg/L	n/v	$_{s3}$[GH]	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	-	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Naphthalene	µg/L	n/v	7[G] 11[H]	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	-	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Phenanthrene	µg/L	n/v	1[G] 1[H]	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Pyrene	µg/L	n/v	4.1[G] 4.1[H]	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05	0.08	0.10	<0.05	<0.05	<0.05	<0.05	<0.05
Remaining Semi-Volatile Organic Compounds																			
Biphenyl, 1,1'- (Biphenyl)	µg/L	n/v	0.5[G] 0.5[H]	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Bis(2-Chloroethyl)ether	µg/L	n/v	5[G] 5[H]	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Bis(2-Chloroisopropyl)ether	µg/L	n/v	120[G] 120[H]	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Chloroaniline, 4-	µg/L	n/v	10[G] 10[H]	<1	<1	<1	<1	<1	<1	-	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chlorophenol, 2- (ortho-Chlorophenol)	µg/L	n/v	8.9[G] 8.9[H]	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dichlorobenzidine, 3,3'-	µg/L	n/v	0.5[G] 0.5[H]	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Dichlorophenol, 2,4-	µg/L	900[C] 0.3_t[D]	20[G] 20[H]	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dimethylphenol, 2,4-	µg/L	n/v	59[G] 59[H]	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Dinitrophenol, 2,4-	µg/L	n/v	10[G] 10[H]	<2	<2	<2	<2	<2	<2	-	<2	<2	<2	<2	<2	<2	<2	<2	<2
Dinitrotoluene, 2,4-	µg/L	n/v	5_{t13}[GH]	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	-	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Dinitrotoluene, 2,6-	µg/L	n/v	5_{t13}[GH]	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	-	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Pentachlorophenol	µg/L	60[C] 30_t[D]	30[G] 30[H]	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Phenol	µg/L	n/v	890[G] 890[H]	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Trichlorobenzene, 1,2,4-	µg/L	n/v	3[G] 70[H]	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Trichlorophenol, 2,4,5-	µg/L	n/v	8.9[G] 8.9[H]	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	-	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Trichlorophenol, 2,4,6-	µg/L	5[C] 2_t[D]	2[G] 2[H]	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	-	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2

See notes on last page

Table 7
Summary of Groundwater Analytical Results - Monitoring Wells
Clarington Transformer Station
Hydro One Networks Inc.

Sample Location				MW2-13-D (Contd.)						MW2-13-S									
Sample Date				1-Nov-16	1-Nov-16	25-Apr-17	25-Apr-17	18-Oct-17	18-Oct-17	13-Dec-13	7-May-14	15-Aug-14	1-Oct-14	20-Nov-14	20-Nov-14	26-Nov-14	26-Nov-14	14-Apr-15	14-Apr-15
Sample ID				WG-160900764-20161101-AM04	WG-160900764-20161101-AM04A	WG-160900764-20170425-KR-10	WG-160900764-20170425-KR-10A	WG-160900764-20171018-RD13	WG-160900764-20171018-RD13A	CLARS1213TWG-160960745-20131213-JK4	MW2-13-S	MW2-13-S	WG-160900764-20141002-JK10	WG-160900764-20141120-CD02	WG-160900764-20141120-CD02A	WG-160900764-20141126 RD02	WG-160900764-20141126 RD02A	WG-160900764-20150414-RD15	WG-160900764-20150414-RD15A
Sampling Company				STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC
Laboratory				MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX
Laboratory Work Order				B6N7980	B6N7980	B783695	B783695	B7N2183	B7N2183	B3L6734	B475182	B4E7727	B4I4645	B4M0745	B4M0745	B4M4069	B4M4069	B565881	B565881
Laboratory Sample ID				DJK306	DJK307	EGX374	EGX379	FJF449	FJF450	UH4004	VV0845	XD5196	XV9684	YO3442	YO3443	YP9571	YP9572	ACK475	ACK476
Filtered				Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC	Lab Filtered SVOC	Lab Filtered SVOC	Lab Filtered SVOC	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC
Sample Type	Units	ODWS	Ontario SCS																
Volatile Organic Compounds																			
Acetone	µg/L	n/v	2,700[G] 2,700[H]	<10	-	<10	-	<10	-	-	<10	<10	<10	<10	-	<10	-	<10	-
Bromodichloromethane	µg/L	n/v	16[G] 16[H]	<0.50	-	<0.50	-	<0.50	-	-	<0.50	<0.50	<0.50	<0.50	-	<0.50	-	<0.5	-
Bromoform (Tribromomethane)	µg/L	n/v	5[G] 25[H]	<1.0	-	<1.0	-	<1.0	-	-	<1.0	<1.0	<1.0	<1.0	-	<1.0	-	<1	-
Bromomethane (Methyl bromide)	µg/L	n/v	0.89[G] 0.89[H]	<0.50	-	<0.50	-	<0.50	-	-	<0.50	<0.50	<0.50	<0.50	-	<0.50	-	<0.5	-
Carbon Tetrachloride (Tetrachloromethane)	µg/L	2[C]	0.2[G] 0.79[H]	<0.20	-	<0.20	-	<0.20	-	-	<0.20	<0.20	<0.20	<0.20	-	<0.20	-	<0.2	-
Chlorobenzene (Monochlorobenzene)	µg/L	80[C] 30[D]	30[G] 30[H]	<0.20	-	<0.20	-	<0.20	-	-	<0.20	<0.20	<0.20	<0.20	-	<0.20	-	<0.2	-
Chloroform (Trichloromethane)	µg/L	n/v	2[G] 2.4[H]	<0.20	-	<0.20	-	<0.20	-	-	<0.20	<0.20	<0.20	<0.20	-	<0.20	-	<0.2	-
Dibromochloromethane	µg/L	n/v	25[G] 25[H]	<0.50	-	<0.50	-	<0.50	-	-	<0.50	<0.50	<0.50	<0.50	-	<0.50	-	<0.5	-
Dichlorobenzene, 1,2-	µg/L	200[C] 3[D]	3[G] 3[H]	<0.50	-	<0.50	-	<0.50	-	-	<0.50	<0.50	<0.50	<0.50	-	<0.50	-	<0.5	-
Dichlorobenzene, 1,3-	µg/L	n/v	59[G] 59[H]	<0.50	-	<0.50	-	<0.50	-	-	<0.50	<0.50	<0.50	<0.50	-	<0.50	-	<0.5	-
Dichlorobenzene, 1,4-	µg/L	5[C] 1[D]	0.5[G] 1[H]	<0.50	-	<0.50	-	<0.50	-	-	<0.50	<0.50	<0.50	<0.50	-	<0.50	-	<0.5	-
Dichlorodifluoromethane (Freon 12)	µg/L	n/v	590[G] 590[H]	<1.0	-	<1.0	-	<1.0	-	-	<1.0	<1.0	<1.0	<1.0	-	<1.0	-	<1	-
Dichloroethane, 1,1-	µg/L	n/v	5[G] 5[H]	<0.20	-	<0.20	-	<0.20	-	-	<0.20	<0.20	<0.20	<0.20	-	<0.20	-	<0.2	-
Dichloroethane, 1,2-	µg/L	5[B]	0.5[G] 1.6[H]	<0.50	-	<0.50	-	<0.50	-	-	<0.50	<0.50	<0.50	<0.50	-	<0.50	-	<0.5	-
Dichloroethene, 1,1-	µg/L	14[C]	0.5[G] 1.6[H]	<0.20	-	<0.20	-	<0.20	-	-	<0.20	<0.20	<0.20	<0.20	-	<0.20	-	<0.2	-
Dichloroethene, cis-1,2-	µg/L	n/v	1.6[G] 1.6[H]	<0.50	-	<0.50	-	<0.50	-	-	<0.50	<0.50	<0.50	<0.50	-	<0.50	-	<0.5	-
Dichloroethene, trans-1,2-	µg/L	n/v	1.6[G] 1.6[H]	<0.50	-	<0.50	-	<0.50	-	-	<0.50	<0.50	<0.50	<0.50	-	<0.50	-	<0.5	-
Dichloropropane, 1,2-	µg/L	n/v	0.58[G] 5[H]	<0.20	-	<0.20	-	<0.20	-	-	<0.20	<0.20	<0.20	<0.20	-	<0.20	-	<0.2	-
Dichloropropene, 1,3- (sum of isomers cis + trans)	µg/L	n/v	0.5[511][GH]	<0.50	-	<0.50	-	<0.50	-	-	<0.50	<0.50	<0.50	<0.50	-	<0.50	-	<0.5	-
Dichloropropene, cis-1,3-	µg/L	n/v	[511][GH]	<0.30	-	<0.30	-	<0.30	-	-	<0.30	<0.30	<0.30	<0.30	-	<0.30	-	<0.3	-
Dichloropropene, trans-1,3-	µg/L	n/v	[511][GH]	<0.40	-	<0.40	-	<0.40	-	-	<0.40	<0.40	<0.40	<0.40	-	<0.40	-	<0.4	-
Ethylene Dibromide (Dibromoethane, 1,2-)	µg/L	n/v	0.2[G] 0.2[H]	<0.20	-	<0.20	-	<0.20	-	-	<0.20	<0.20	<0.20	<0.20	-	<0.20	-	<0.2	-
Hexane (n-Hexane)	µg/L	n/v	5[G] 51[H]	<1.0	-	<1.0	-	<1.0	-	-	<1.0	<1.0	<1.0	<1.0	-	<1.0	-	<1	-
Methyl Ethyl Ketone (MEK) (2-Butanone)	µg/L	n/v	1,800[G] 1,800[H]	<10	-	<10	-	<10	-	-	<10	<10	<10	<10	-	<10	-	<10	-
Methyl Isobutyl Ketone (MIBK)	µg/L	n/v	640[G] 640[H]	<5.0	-	<5.0	-	<5.0	-	-	<5.0	<5.0	<5.0	<5.0	-	<5.0	-	<5	-
Methyl tert-butyl ether (MTBE)	µg/L	n/v	15[G] 15[H]	<0.50	-	<0.50	-	<0.50	-	-	<0.50	<0.50	<0.50	<0.50	-	<0.50	-	<0.5	-
Methylene Chloride (Dichloromethane)	µg/L	50[C]	26[G] 50[H]	<2.0	-	<2.0	-	<2.0	-	-	<2.0	<2.0	<2.0	<2.0	-	<2.0	-	<2	-
Styrene	µg/L	n/v	5.4[G] 5.4[H]	<0.50	-	<0.50	-	<0.50	-	-	<0.50	<0.50	<0.50	<0.50	-	<0.50	-	<0.5	-
Tetrachloroethane, 1,1,1,2-	µg/L	n/v	1.1[G] 1.1[H]	<0.50	-	<0.50	-	<0.50	-	-	<0.50	<0.50	<0.50	<0.50	-	<0.50	-	<0.5	-
Tetrachloroethane, 1,1,2,2-	µg/L	n/v	0.5[G] 1[H]	<0.50	-	<0.50	-	<0.50	-	-	<0.50	<0.50	<0.50	<0.50	-	<0.50	-	<0.5	-
Tetrachloroethene (PCE)	µg/L	30[C]	0.5[G] 1.6[H]	<0.20	-	<0.20	-	<0.20	-	-	<0.20	<0.20	<0.20	<0.20	-	<0.20	-	<0.2	-
Trichloroethane, 1,1,1-	µg/L	n/v	23[G] 200[H]	<0.20	-	<0.20	-	<0.20	-	-	<0.20	<0.20	<0.20	<0.20	-	<0.20	-	<0.2	-
Trichloroethane, 1,1,2-	µg/L	n/v	0.5[G] 4.7[H]	<0.50	-	<0.50	-	<0.50	-	-	<0.50	<0.50	<0.50	<0.50	-	<0.50	-	<0.5	-
Trichloroethene (TCE)	µg/L	5[C]	0.5[G] 1.6[H]	<0.20	-	<0.20	-	<0.20	-	-	<0.20	<0.20	<0.20	<0.20	-	<0.20	-	<0.2	-
Trichlorofluoromethane (Freon 11)	µg/L	n/v	150[G] 150[H]	<0.50	-	<0.50	-	<0.50	-	-	<0.50	<0.50	<0.50	<0.50	-	<0.50	-	<0.5	-
Trihalomethanes	µg/L	100[e][C]	n/v	-	-	-	-	<1.0	-	-	-	-	-	-	-	-	-	-	-
Vinyl Chloride	µg/L	1[C]	0.5[G] 0.5[H]	<0.20	-	<0.20	-	<0.20	-	-	<0.20	<0.20	<0.20	<0.20	-	<0.20	-	<0.2	-

See notes on last page

Table 7
Summary of Groundwater Analytical Results - Monitoring Wells
Clarington Transformer Station
Hydro One Networks Inc.

Sample Location				MW2-13-S (Contd.)												MW3-13-D				
Sample Date				7-Oct-15	7-Oct-15	14-Apr-16	14-Apr-16	14-Apr-16	14-Apr-16	1-Nov-16	1-Nov-16	25-Apr-17	25-Apr-17	18-Oct-17	18-Oct-17	8-May-14	14-Aug-14	1-Oct-14	22-Dec-14	22-Dec-14
Sample ID				WG-160900764-20151007-RD15	WG-160900764-20151007-RD15A	WG-160900764-20160414-AM14	WG-160900764-20160414-AM16	WG-160900764-20160414-AM14A	WG-160900764-20160414-AM16A	WG-160900764-20161101-AM03	WG-160900764-20161101-AM03A	WG-160900764-20170425-KR-09	WG-160900764-20170425-KR-09A	WG-160900764-20171018-CF14	WG-160900764-20171018-CF14A	MW3-13-D	MW3-13-D	WG-160900764-20141001-JK2	WG-160900764-20141222-MF03	WG-160900764-20141222-MF03A
Sampling Company				STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC
Laboratory				MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX
Laboratory Work Order				B5K5143	B5K5143	B674631	B674631	B674631	B674631	B6N7980	B6N7980	B783695	B783695	B7N2183	B7N2183	B476124	B4E7727	B4I4645	B4O2426	B4O2426
Laboratory Sample ID				BCZ970	BCZ971	CER541	CER545	CER542	CER546	DJK304	DJK305	EGX373	EGX378	FJF451	FJF452	VV5728	XD5193	XV9678	YY7643	YY7644
Filtered				Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Field Filtered Metals	Lab Filtered SVOC	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC	Lab Filtered SVOC	Lab Filtered SVOC	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC
Sample Type	Units	ODWS	Ontario SCS				Field Duplicate		Field Duplicate											
General Chemistry																				
Acidity	mg/L	n/v	n/v	<10	-	<10	<10	-	-	13	-	10	-	<5.0	-	11	11	<10	-	-
Alkalinity, Bicarbonate (as CaCO3)	mg/L	n/v	n/v	190	-	190	190	-	-	200	-	180	-	190	-	150	150	160	170	-
Alkalinity, Carbonate (as CaCO3)	mg/L	n/v	n/v	1.4	-	1.5	1.6	-	-	2.2	-	2.2	-	2.8	-	1.1	1.0	1.3	1.5	-
Alkalinity, Total (as CaCO3)	mg/L	30-500[E]	n/v	190	-	190	190	-	-	200	-	180	-	190	-	150	150	160	170	-
Ammonia (as N)	mg/L	n/v	n/v	0.10	-	<0.050	<0.050	-	-	<0.050	-	<0.050	-	0.064	-	0.29	0.34	0.45	-	-
Anion Sum	meq/L	n/v	n/v	4.47	-	4.41	4.38	-	-	4.73	-	4.26	-	4.41	-	16.3	17.2	16.3	19.6	-
Cation Sum	meq/L	n/v	n/v	4.61	-	4.30	4.17	-	-	4.57	-	4.20	-	4.05	-	18.3	17.6	17.9	20.0	-
Chloride	mg/L	250[D]	790[G] 790[H]	5.1	-	5.1	5.2	-	-	5.5	-	4.5	-	4.0	-	23	21	22	28	-
Cyanide (Free)	µg/L	200[C]	52[G] 52[H]	<2	-	<2	<2	-	-	<1	-	<1	-	<1	-	<2	<2	<2	-	-
Dissolved Organic Carbon (DOC)	mg/L	5[D]	n/v	0.81	-	0.75	0.81	-	-	2.1	-	0.74	-	0.79	-	**5.2[D]**	3.0	2.6	-	-
Electrical Conductivity, Lab	µmhos/cm	n/v	n/a[GH]	400	-	380	380	-	-	440	-	400	-	370	-	1,600	1,700	1,600	1,800	-
Fluoride	mg/L	1.5_b[C]	n/v	0.28	-	0.28	0.28	-	-	0.30	-	0.28	-	0.30	-	0.31	0.28	0.30	-	-
Hardness (as CaCO3)	mg/L	80-100[E]	n/v	**200[E]**	-	**190[E]**	**180[E]**	-	-	**200[E]**	-	**190[E]**	-	**180[E]**	-	**510[E]**	**510[E]**	**510[E]**	**580[E]**	-
Ion Balance	%	n/v	n/v	1.55	-	1.29	2.49	-	-	1.71	-	0.640	-	4.23	-	5.59	1.08	4.65	1.08	-
Langelier Index (at 20 C)	none	n/v	n/v	0.304	-	0.318	0.324	-	-	0.513	-	0.452	-	0.579	-	0.598	0.568	0.645	0.758	-
Langelier Index (at 4 C)	none	n/v	n/v	0.0540	-	0.0690	0.0740	-	-	0.264	-	0.202	-	0.328	-	0.353	0.323	0.399	0.513	-
Nitrate (as N)	mg/L	10.0_d[C]	n/v	<0.10	-	<0.10	<0.10	-	-	<0.10	-	<0.10	-	<0.10	-	<0.10	<0.10	<0.10	0.97	-
Nitrate + Nitrite (as N)	mg/L	10.0_d[C]	n/v	<0.10	-	<0.10	<0.10	-	-	<0.10	-	<0.10	-	<0.10	-	<0.10	<0.10	<0.10	0.97	-
Nitrite (as N)	mg/L	1.0_d[C]	n/v	<0.010	-	<0.010	<0.010	-	-	<0.010	-	<0.010	-	<0.010	-	<0.010	0.019	<0.010	<0.010	-
Orthophosphate(as P)	mg/L	n/v	n/v	<0.010	-	<0.010	0.010	-	-	<0.010	-	<0.010	-	<0.010	-	<0.010	<0.010	<0.010	<0.010	-
pH	S.U.	6.5-8.5[E]	n/v	7.88	-	7.93	7.96	-	-	8.06	-	8.12	-	8.21	-	7.91	7.88	7.93	7.97	-
Saturation pH (at 20 C)	none	n/v	n/v	7.58	-	7.61	7.64	-	-	7.55	-	7.67	-	7.63	-	7.31	7.31	7.29	7.21	-
Saturation pH (at 4 C)	none	n/v	n/v	7.83	-	7.86	7.89	-	-	7.80	-	7.92	-	7.88	-	7.56	7.56	7.53	7.45	-
Sulfate	mg/L	500_h[D]	n/v	21	-	23	23	-	-	24	-	25	-	23	-	**610[D]**	**660[D]**	**600[D]**	**740[D]**	-
Total Dissolved Solids	mg/L	500[D]	n/v	220	-	234	234	-	-	262	-	234	-	145	-	**1,140[D]**	**1,320[D]**	**1,270[D]**	-	-
Total Dissolved Solids (Calculated)	mg/L	500[D]	n/v	240	-	230	220	-	-	250	-	220	-	230	-	-	-	-	**1,300[D]**	-
Total Organic Carbon	mg/L	n/v	n/v	0.91	-	1.1	1.0	-	-	2.3	-	0.56	-	0.85	-	22	7.0	3.4	-	-
Total Suspended Solids	mg/L	n/v	n/v	<10	-	10	13	-	-	56	-	<10	-	<10	-	5,200	5,400	980	40	-
Turbidity, Lab	NTU	5_f[D] [E]	n/v	3.7	-	**9.9[D]**	**7.5[D]**	-	-	**14[D]**	-	1.6	-	3.0	-	**1,300[D]**	**100[D]**	**610[D]**	**22[D]**	-
BTEX and Petroleum Hydrocarbons																				
Benzene	µg/L	1[C]	0.5[G] 5[H]	<0.20	-	<0.20	<0.20	-	-	<0.20	-	<0.20	-	<0.20	-	<0.20	<0.20	<0.20	<0.20	-
Toluene	µg/L	24[D]	24[G] 22[H]	<0.20	-	<0.20	<0.20	-	-	<0.20	-	<0.20	-	<0.20	-	0.27	<0.20	<0.20	<0.20	-
Ethylbenzene	µg/L	2.4[D]	2.4[G] 2.4[H]	<0.20	-	<0.20	<0.20	-	-	<0.20	-	<0.20	-	<0.20	-	<0.20	<0.20	<0.20	<0.20	-
Xylene, m & p-	µg/L	300_{s1}[D]	$_{s1}$[GH]	<0.20	-	<0.20	<0.20	-	-	<0.20	-	<0.20	-	<0.20	-	0.20	<0.20	<0.40	<0.20	-
Xylene, o-	µg/L	300_{s1}[D]	$_{s1}$[GH]	<0.20	-	<0.20	<0.20	-	-	<0.20	-	<0.20	-	<0.20	-	<0.20	<0.20	<0.20	<0.20	-
Xylenes, Total	µg/L	300[D]	72_{s1}[G] 300_{s1}[H]	<0.20	-	<0.20	<0.20	-	-	<0.20	-	<0.20	-	<0.20	-	0.20	<0.20	<0.40	<0.20	-
PHC F1 (C6-C10 range)	µg/L	n/v	$_{s7}$[GH]	<25	-	<25	<25	-	-	<25	-	<25	-	<25	-	<25	<25	<25	-	-
PHC F1 (C6-C10 range) minus BTEX	µg/L	n/v	420_{s7}[GH]	<25	-	<25	<25	-	-	<25	-	<25	-	<25	-	<25	<25	<25	-	-
PHC F2 (>C10-C16 range)	µg/L	n/v	150_{s15}[GH]	<100	-	<100	<100	-	-	<100	-	<100	-	<100	-	<100	<100	<100	-	-
PHC F3 (>C16-C34 range)	µg/L	n/v	500_{s8}[GH]	<200	-	<200	<200	-	-	<200	-	<200	-	<200	-	<200	<200	<200	-	-
PHC F4 (>C34-C50 range)	µg/L	n/v	500_{s10}[GH]	<200	-	<200	<200	-	-	<200	-	<200	-	<200	-	<200	<200	<200	-	-
Chromatogram to baseline at C50	none	n/v	n/v	YES	-	YES	YES	-	-	YES	-	YES	-	YES	-	YES	YES	YES	-	-

See notes on last page

Table 7
Summary of Groundwater Analytical Results - Monitoring Wells
Clarington Transformer Station
Hydro One Networks Inc.

Sample Location				MW2-13-S (Contd.)												MW3-13-D				
Sample Date				7-Oct-15	7-Oct-15	14-Apr-16	14-Apr-16	14-Apr-16	14-Apr-16	1-Nov-16	1-Nov-16	25-Apr-17	25-Apr-17	18-Oct-17	18-Oct-17	8-May-14	14-Aug-14	1-Oct-14	22-Dec-14	22-Dec-14
Sample ID				WG-160900764-20151007-RD15	WG-160900764-20151007-RD15A	WG-160900764-20160414-AM14	WG-160900764-20160414-AM16	WG-160900764-20160414-AM14A	WG-160900764-20160414-AM16A	WG-160900764-20161101-AM03	WG-160900764-20161101-AM03A	WG-160900764-20170425-KR-09	WG-160900764-20170425-KR-09A	WG-160900764-20171018-CF14	WG-160900764-20171018-CF14A	MW3-13-D	MW3-13-D	WG-160900764-20141001-JK2	WG-160900764-20141222-MF03	WG-160900764-20141222-MF03A
Sampling Company				STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC
Laboratory				MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX
Laboratory Work Order				B5K5143	B5K5143	B674631	B674631	B674631	B674631	B6N7980	B6N7980	B783695	B783695	B7N2183	B7N2183	B476124	B4E7727	B4I4645	B4O2426	B4O2426
Laboratory Sample ID				BCZ970	BCZ971	CER541	CER545	CER542	CER546	DJK304	DJK305	EGX373	EGX378	FJF451	FJF452	VV5728	XD5193	XV9678	YY7643	YY7644
Filtered				Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Field Filtered Metals	Lab Filtered SVOC	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC	Lab Filtered SVOC	Lab Filtered SVOC	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC
Sample Type	Units	ODWS	Ontario SCS				Field Duplicate		Field Duplicate											
Metals																				
Aluminum	µg/L	100[E]	n/v	<5.0	-	<5	<5	-	-	<5	-	<5.0	-	<5	-	18	8.1	7.5	<5	<5
Antimony	µg/L	6[B]	6[G] 6[H]	<0.5	-	<0.5	<0.5	-	-	<0.5	-	<0.50	-	<0.5	-	<0.50	<0.50	0.58	<0.5	<0.5
Arsenic	µg/L	25[B]	25[G] 25[H]	<1	-	<1	<1	-	-	<1	-	<1.0	-	<1	-	<1.0	<1.0	<1.0	<1	<1
Barium	µg/L	1,000[C]	1,000[G] 1,000[H]	62	-	59	58	-	-	66	-	60	-	69	-	33	27	31	35	37
Beryllium	µg/L	n/v	4[G] 4[H]	<0.5	-	<0.5	<0.5	-	-	<0.5	-	<0.50	-	<0.5	-	<0.50	<0.50	<0.50	<0.5	<0.5
Boron	µg/L	5,000[B]	5,000[G] 5,000[H]	42	-	38	35	-	-	52	-	38	-	42	-	430	370	380	390	420
Cadmium	µg/L	5[C]	2.1[G] 2.1[H]	<0.1	-	<0.1	<0.1	-	-	<0.1	-	<0.10	-	<0.1	-	<0.10	<0.10	<0.10	<0.1	<0.1
Calcium	µg/L	n/v	n/v	34,000	-	32,000	31,000	-	-	36,000	-	30,000	-	29,000	-	120,000	130,000	120,000	140,000	150,000
Chromium	µg/L	50[C]	50[G] 50[H]	<5.0	-	<5	<5	-	-	<5	-	<5.0	-	<5	-	<5.0	<5.0	<5.0	<5	<5
Chromium (Hexavalent)	µg/L	n/v	25[G] 25[H]	<0.50	-	<0.50	<0.50	-	-	<0.50	-	<0.50	-	<0.50	-	<0.50	<0.50	<0.50	-	-
Cobalt	µg/L	n/v	3.8[G] 3.8[H]	<0.5	-	<0.5	<0.5	-	-	<0.5	-	<0.50	-	<0.5	-	<0.50	0.84	0.54	<0.5	<0.5
Copper	µg/L	1,000[D]	69[G] 69[H]	<1	-	<1	<1	-	-	<1	-	<1.0	-	<1	-	1.2	<1.0	<1.0	3.4	2.4
Iron	µg/L	300[D]	n/v	<100	-	<100	<100	-	-	<100	-	<100	-	<100	-	<100	<100	<100	<100	<100
Lead	µg/L	10[C]	10[G] 10[H]	<0.5	-	<0.5	<0.5	-	-	<0.5	-	<0.50	-	<0.5	-	<0.50	<0.50	<0.50	<0.5	<0.5
Magnesium	µg/L	n/v	n/v	29,000	-	27,000	26,000	-	-	28,000	-	27,000	-	26,000	-	48,000	47,000	50,000	58,000	64,000
Manganese	µg/L	50[D]	n/v	**55[D]**	-	21	20	-	-	27	-	21	-	**58[D]**	-	23	**74[D]**	37	18	19
Mercury	µg/L	1[C]	0.1[G] 0.29[H]	<0.1	-	<0.1	<0.1	-	-	<0.1	-	<0.1	-	<0.1	-	-	<0.10	<0.1	-	-
Molybdenum	µg/L	n/v	70[G] 70[H]	2.8	-	2.5	2.3	-	-	2.6	-	1.9	-	1.7	-	**81[GH]**	51	58	**74[GH]**	**78[GH]**
Nickel	µg/L	n/v	100[G] 100[H]	<1	-	<1	<1	-	-	<1	-	<1.0	-	<1	-	3.2	1.6	1.7	2.1	2.1
Phosphorus	µg/L	n/v	n/v	<100	-	<100	<100	-	-	<100	-	<100	-	<100	-	<100	<100	<100	<100	<100
Potassium	µg/L	n/v	n/v	2,600	-	2,200	2,100	-	-	2,600	-	2,100	-	2,200	-	17,000	9,500	9,400	10,000	11,000
Selenium	µg/L	10[C]	10[G] 10[H]	<2	-	<2	<2	-	-	<2	-	<2.0	-	<2	-	<2.0	<2.0	<2.0	<2	<2
Silicon	µg/L	n/v	n/v	8,600	-	6,800	6,600	-	-	7,800	-	7,100	-	8,000	-	4,700	4,500	4,500	5,000	5,300
Silver	µg/L	n/v	1.2[G] 1.2[H]	<0.1	-	<0.1	<0.1	-	-	<0.1	-	<0.10	-	<0.1	-	<0.10	<0.10	<0.10	<0.1	<0.1
Sodium	µg/L	200,000[D] 20,000[F]	490,000[G] 490,000[H]	11,000	-	10,000	9,700	-	-	10,000	-	10,000	-	9,600	-	**180,000[F]**	**160,000[F]**	**170,000[F]**	**190,000[F]**	**210,000[DF]**
Strontium	µg/L	n/v	n/v	570	-	520	520	-	-	610	-	560	-	590	-	1,500	1,600	1,900	2,200	2,400
Thallium	µg/L	n/v	2[G] 2[H]	<0.05	-	<0.05	<0.05	-	-	<0.05	-	<0.050	-	<0.05	-	0.11	<0.050	<0.050	<0.05	<0.05
Titanium	µg/L	n/v	n/v	<5.0	-	<5	<5	-	-	<5	-	<5.0	-	<5	-	<5.0	<5.0	<5.0	<5	<5
Uranium	µg/L	20[C]	20[G] 20[H]	0.57	-	0.49	0.56	-	-	0.58	-	0.33	-	0.23	-	7.5	6.1	7.0	5.8	6.4
Vanadium	µg/L	n/v	6.2[G] 6.2[H]	<0.5	-	0.73	<0.5	-	-	0.74	-	<0.50	-	<0.5	-	0.74	<0.50	<0.50	<0.5	<0.5
Zinc	µg/L	5,000[D]	890[G] 890[H]	<5.0	-	<5	<5	-	-	<5	-	<5.0	-	<5	-	<5.0	21	17	18	8.5
Zirconium	µg/L	n/v	n/v	<1	-	<1	<1	-	-	<1	-	<1.0	-	<1	-	<1.0	-	<1.0	<1	<1
Polychlorinated Biphenyls																				
Aroclor 1242	µg/L	n/v	$_{s14}$[GH]	<0.05	-	<0.05	<0.05	-	-	<0.05	-	<0.05	-	<0.05	-	<0.05	<0.05	<0.05	-	-
Aroclor 1248	µg/L	n/v	$_{s14}$[GH]	<0.05	-	<0.05	<0.05	-	-	<0.05	-	<0.05	-	<0.05	-	<0.05	<0.05	<0.05	-	-
Aroclor 1254	µg/L	n/v	$_{s14}$[GH]	<0.05	-	<0.05	<0.05	-	-	<0.05	-	<0.05	-	<0.05	-	<0.05	<0.05	<0.05	-	-
Aroclor 1260	µg/L	n/v	$_{s14}$[GH]	<0.05	-	<0.05	<0.05	-	-	<0.05	-	<0.05	-	<0.05	-	<0.05	<0.05	<0.05	-	-
Polychlorinated Biphenyls (PCBs)	µg/L	3[B]	0.2$_{s14}$[GH]	<0.05	-	<0.05	<0.05	-	-	<0.05	-	<0.05	-	<0.05	-	<0.05	<0.05	<0.05	-	-

See notes on last page

Table 7
Summary of Groundwater Analytical Results - Monitoring Wells
Clarington Transformer Station
Hydro One Networks Inc.

Sample Location				MW2-13-S (Contd.)												MW3-13-D				
Sample Date				7-Oct-15	7-Oct-15	14-Apr-16	14-Apr-16	14-Apr-16	14-Apr-16	1-Nov-16	1-Nov-16	25-Apr-17	25-Apr-17	18-Oct-17	18-Oct-17	8-May-14	14-Aug-14	1-Oct-14	22-Dec-14	22-Dec-14
Sample ID				WG-160900764-20151007-RD15	WG-160900764-20151007-RD15A	WG-160900764-20160414-AM14	WG-160900764-20160414-AM16	WG-160900764-20160414-AM14A	WG-160900764-20160414-AM16A	WG-160900764-20161101-AM03	WG-160900764-20161101-AM03A	WG-160900764-20170425-KR-09	WG-160900764-20170425-KR-09A	WG-160900764-20171018-CF14	WG-160900764-20171018-CF14A	MW3-13-D	MW3-13-D	WG-160900764-20141001-JK2	WG-160900764-20141222-MF03	WG-160900764-20141222-MF03A
Sampling Company				STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC
Laboratory				MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX
Laboratory Work Order				B5K5143	B5K5143	B674631	B674631	B674631	B674631	B6N7980	B6N7980	B783695	B783695	B7N2183	B7N2183	B476124	B4E7727	B4I4645	B4O2426	B4O2426
Laboratory Sample ID				BCZ970	BCZ971	CER541	CER545	CER542	CER546	DJK304	DJK305	EGX373	EGX378	FJF451	FJF452	VV5728	XD5193	XV9678	YY7643	YY7644
Filtered				Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Field Filtered Metals	Lab Filtered SVOC	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC	Lab Filtered SVOC	Lab Filtered SVOC	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC
Sample Type	Units	ODWS	Ontario SCS				Field Duplicate		Field Duplicate											
Semi-Volatile Organic Compounds																				
Phthalates																				
Bis(2-Ethylhexyl)phthalate (DEHP)	µg/L	n/v	10^{G} 10^{H}	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	-	**16^{GH}**	**41^{GH}**	3	<1
Diethyl Phthalate	µg/L	n/v	30^{G} 30^{H}	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.2	0.2	<0.1	<0.1	<0.1	<0.1	-	<0.5	<0.4	<0.1	<0.1
Dimethyl Phthalate	µg/L	n/v	30^{G} 30^{H}	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.5	<0.4	<0.1	<0.1
Polycyclic Aromatic Hydrocarbons																				
Acenaphthene	µg/L	n/v	4.1^{G} 4.1^{H}	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	-	<1	<0.8	<0.2	<0.2
Acenaphthylene	µg/L	n/v	1^{G} 1^{H}	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	-	<1	<0.8	<0.2	<0.2
Anthracene	µg/L	n/v	1^{G} 1^{H}	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.3	<0.2	<0.05	<0.05
Benzo(a)anthracene	µg/L	n/v	1^{G} 1^{H}	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.3	0.3	<0.05	<0.05
Benzo(a)pyrene	µg/L	0.01^{C}	0.01^{G} 0.01^{H}	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	-	**0.08^{CGH}**	**0.16^{CGH}**	<0.01	<0.01
Benzo(b/j)fluoranthene	µg/L	n/v	0.1_{s2} ^{GH}	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	***<0.3***	**0.3^{GH}**	<0.05	<0.05
Benzo(g,h,i)perylene	µg/L	n/v	0.2^{G} 0.2^{H}	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	***<0.3***	***<0.4***	<0.05	<0.05
Benzo(k)fluoranthene	µg/L	n/v	0.1^{G} 0.1^{H}	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	***<0.3***	***<0.2***	<0.05	<0.05
Chrysene	µg/L	n/v	0.1^{G} 0.1^{H}	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	***<0.3***	**0.3^{GH}**	<0.05	<0.05
Dibenzo(a,h)anthracene	µg/L	n/v	0.2^{G} 0.2^{H}	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	***<0.5***	***<0.4***	<0.1	<0.1
Fluoranthene	µg/L	n/v	0.41^{G} 0.41^{H}	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	-	***<1***	***<0.8***	<0.2	<0.2
Fluorene	µg/L	n/v	120^{G} 120^{H}	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	-	<1	<0.8	<0.2	<0.2
Indeno(1,2,3-cd)pyrene	µg/L	n/v	0.2^{G} 0.2^{H}	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	***<0.5***	***<0.4***	<0.1	<0.1
Methylnaphthalene (Total)	µg/L	n/v	3.2_{s3} ^{GH}	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	-	<1.4	<1.1	<0.28	<0.28
Methylnaphthalene, 1-	µg/L	n/v	$_{s3}$ ^{GH}	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	-	<1	<0.8	<0.2	<0.2
Methylnaphthalene, 2-	µg/L	n/v	$_{s3}$ ^{GH}	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	-	<1	<0.8	<0.2	<0.2
Naphthalene	µg/L	n/v	7^{G} 11^{H}	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	-	<1	<0.8	<0.2	<0.2
Phenanthrene	µg/L	n/v	1^{G} 1^{H}	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.5	0.4	<0.1	<0.1
Pyrene	µg/L	n/v	4.1^{G} 4.1^{H}	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	0.5	1.0	<0.05	<0.05
Remaining Semi-Volatile Organic Compounds																				
Biphenyl, 1,1'- (Biphenyl)	µg/L	n/v	0.5^{G} 0.5^{H}	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.5	<0.4	<0.1	<0.1
Bis(2-Chloroethyl)ether	µg/L	n/v	5^{G} 5^{H}	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	<3	<2	<0.5	<0.5
Bis(2-Chloroisopropyl)ether	µg/L	n/v	120^{G} 120^{H}	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	<3	<2	<0.5	<0.5
Chloroaniline, 4-	µg/L	n/v	10^{G} 10^{H}	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	-	<5	<4	<1	<1
Chlorophenol, 2- (ortho-Chlorophenol)	µg/L	n/v	8.9^{G} 8.9^{H}	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.5	<0.4	<0.1	<0.1
Dichlorobenzidine, 3,3'-	µg/L	n/v	0.5^{G} 0.5^{H}	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	***<3***	***<2***	<0.5	<0.5
Dichlorophenol, 2,4-	µg/L	900^{C} 0.3_{t}^{D}	20^{G} 20^{H}	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	***<0.5***	***<0.4***	<0.1	<0.1
Dimethylphenol, 2,4-	µg/L	n/v	59^{G} 59^{H}	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	<3	<2	<0.5	<0.5
Dinitrophenol, 2,4-	µg/L	n/v	10^{G} 10^{H}	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	-	<10	<8	<2	<2
Dinitrotoluene, 2,4-	µg/L	n/v	5_{t13} ^{GH}	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	-	<1	<1	<0.3	<0.3
Dinitrotoluene, 2,6-	µg/L	n/v	5_{t13} ^{GH}	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	-	<1	<1	<0.3	<0.3
Pentachlorophenol	µg/L	60^{C} 30_{t}^{D}	30^{G} 30^{H}	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.5	<0.4	<0.1	<0.1
Phenol	µg/L	n/v	890^{G} 890^{H}	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	<3	<2	<0.5	<0.5
Trichlorobenzene, 1,2,4-	µg/L	n/v	3^{G} 70^{H}	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.5	<0.4	<0.1	<0.1
Trichlorophenol, 2,4,5-	µg/L	n/v	8.9^{G} 8.9^{H}	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	-	<1	<0.8	<0.2	<0.2
Trichlorophenol, 2,4,6-	µg/L	5^{C} 2_{t}^{D}	2^{G} 2^{H}	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	-	<1	<0.8	<0.2	<0.2

See notes on last page

Table 7
Summary of Groundwater Analytical Results - Monitoring Wells
Clarington Transformer Station
Hydro One Networks Inc.

Sample Location				MW2-13-S (Contd.)												MW3-13-D				
Sample Date				7-Oct-15	7-Oct-15	14-Apr-16	14-Apr-16	14-Apr-16	14-Apr-16	1-Nov-16	1-Nov-16	25-Apr-17	25-Apr-17	18-Oct-17	18-Oct-17	8-May-14	14-Aug-14	1-Oct-14	22-Dec-14	22-Dec-14
Sample ID				WG-160900764-20151007-RD15	WG-160900764-20151007-RD15A	WG-160900764-20160414-AM14	WG-160900764-20160414-AM16	WG-160900764-20160414-AM14A	WG-160900764-20160414-AM16A	WG-160900764-20161101-AM03	WG-160900764-20161101-AM03A	WG-160900764-20170425-KR-09	WG-160900764-20170425-KR-09A	WG-160900764-20171018-CF14	WG-160900764-20171018-CF14A	MW3-13-D	MW3-13-D	WG-160900764-20141001-JK2	WG-160900764-20141222-MF03	WG-160900764-20141222-MF03A
Sampling Company				STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC
Laboratory				MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX
Laboratory Work Order				B5K5143	B5K5143	B674631	B674631	B674631	B674631	B6N7980	B6N7980	B783695	B783695	B7N2183	B7N2183	B476124	B4E7727	B4I4645	B4O2426	B4O2426
Laboratory Sample ID				BCZ970	BCZ971	CER541	CER545	CER542	CER546	DJK304	DJK305	EGX373	EGX378	FJF451	FJF452	VV5728	XD5193	XV9678	YY7643	YY7644
Filtered				Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Field Filtered Metals	Lab Filtered SVOC	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC	Lab Filtered SVOC	Lab Filtered SVOC	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC
Sample Type	Units	ODWS	Ontario SCS				Field Duplicate		Field Duplicate											
Volatile Organic Compounds																				
Acetone	µg/L	n/v	2,700[G] 2,700[H]	<10	-	<10	<10	-	-	<10	-	<10	-	<10	-	<10	<10	<10	<10	-
Bromodichloromethane	µg/L	n/v	16[G] 16[H]	<0.50	-	<0.50	<0.50	-	-	<0.50	-	<0.50	-	<0.50	-	<0.50	<0.50	<0.50	<0.50	-
Bromoform (Tribromomethane)	µg/L	n/v	5[G] 25[H]	<1.0	-	<1.0	<1.0	-	-	<1.0	-	<1.0	-	<1.0	-	<1.0	<1.0	<1.0	<1.0	-
Bromomethane (Methyl bromide)	µg/L	n/v	0.89[G] 0.89[H]	<0.50	-	<0.50	<0.50	-	-	<0.50	-	<0.50	-	<0.50	-	<0.50	<0.50	<0.50	<0.50	-
Carbon Tetrachloride (Tetrachloromethane)	µg/L	2[C]	0.2[G] 0.79[H]	<0.20	-	<0.20	<0.20	-	-	<0.20	-	<0.20	-	<0.20	-	<0.20	<0.20	<0.20	<0.20	-
Chlorobenzene (Monochlorobenzene)	µg/L	80[C] 30[D]	30[G] 30[H]	<0.20	-	<0.20	<0.20	-	-	<0.20	-	<0.20	-	<0.20	-	<0.20	<0.20	<0.20	<0.20	-
Chloroform (Trichloromethane)	µg/L	n/v	2[G] 2.4[H]	<0.20	-	<0.20	<0.20	-	-	<0.20	-	<0.20	-	<0.20	-	<0.20	<0.20	<0.20	<0.20	-
Dibromochloromethane	µg/L	n/v	25[G] 25[H]	<0.50	-	<0.50	<0.50	-	-	<0.50	-	<0.50	-	<0.50	-	<0.50	<0.50	<0.50	<0.50	-
Dichlorobenzene, 1,2-	µg/L	200[C] 3[D]	3[G] 3[H]	<0.50	-	<0.50	<0.50	-	-	<0.50	-	<0.50	-	<0.50	-	<0.50	<0.50	<0.50	<0.50	-
Dichlorobenzene, 1,3-	µg/L	n/v	59[G] 59[H]	<0.50	-	<0.50	<0.50	-	-	<0.50	-	<0.50	-	<0.50	-	<0.50	<0.50	<0.50	<0.50	-
Dichlorobenzene, 1,4-	µg/L	5[C] 1[D]	0.5[G] 1[H]	<0.50	-	<0.50	<0.50	-	-	<0.50	-	<0.50	-	<0.50	-	<0.50	<0.50	<0.50	<0.50	-
Dichlorodifluoromethane (Freon 12)	µg/L	n/v	590[G] 590[H]	<1.0	-	<1.0	<1.0	-	-	<1.0	-	<1.0	-	<1.0	-	<1.0	<1.0	<1.0	<1.0	-
Dichloroethane, 1,1-	µg/L	n/v	5[G] 5[H]	<0.20	-	<0.20	<0.20	-	-	<0.20	-	<0.20	-	<0.20	-	<0.20	<0.20	<0.20	<0.20	-
Dichloroethane, 1,2-	µg/L	5[B]	0.5[G] 1.6[H]	<0.50	-	<0.50	<0.50	-	-	<0.50	-	<0.50	-	<0.50	-	<0.50	<0.50	<0.50	<0.50	-
Dichloroethene, 1,1-	µg/L	14[C]	0.5[G] 1.6[H]	<0.20	-	<0.20	<0.20	-	-	<0.20	-	<0.20	-	<0.20	-	<0.20	<0.20	<0.20	<0.20	-
Dichloroethene, cis-1,2-	µg/L	n/v	1.6[G] 1.6[H]	<0.50	-	<0.50	<0.50	-	-	<0.50	-	<0.50	-	<0.50	-	<0.50	<0.50	<0.50	<0.50	-
Dichloroethene, trans-1,2-	µg/L	n/v	1.6[G] 1.6[H]	<0.50	-	<0.50	<0.50	-	-	<0.50	-	<0.50	-	<0.50	-	<0.50	<0.50	<0.50	<0.50	-
Dichloropropane, 1,2-	µg/L	n/v	0.58[G] 5[H]	<0.20	-	<0.20	<0.20	-	-	<0.20	-	<0.20	-	<0.20	-	<0.20	<0.20	<0.20	<0.20	-
Dichloropropene, 1,3- (sum of isomers cis + trans)	µg/L	n/v	0.5[s11 GH]	<0.50	-	<0.50	<0.50	-	-	<0.50	-	<0.50	-	<0.50	-	<0.50	<0.50	<0.50	<0.50	-
Dichloropropene, cis-1,3-	µg/L	n/v	[s11 GH]	<0.30	-	<0.30	<0.30	-	-	<0.30	-	<0.30	-	<0.30	-	<0.30	<0.30	<0.30	<0.30	-
Dichloropropene, trans-1,3-	µg/L	n/v	[s11 GH]	<0.40	-	<0.40	<0.40	-	-	<0.40	-	<0.40	-	<0.40	-	<0.40	<0.40	<0.40	<0.40	-
Ethylene Dibromide (Dibromoethane, 1,2-)	µg/L	n/v	0.2[G] 0.2[H]	<0.20	-	<0.20	<0.20	-	-	<0.20	-	<0.20	-	<0.20	-	<0.20	<0.20	<0.20	<0.20	-
Hexane (n-Hexane)	µg/L	n/v	5[G] 51[H]	<1.0	-	<1.0	<1.0	-	-	<1.0	-	<1.0	-	<1.0	-	<1.0	<1.0	<1.0	<1.0	-
Methyl Ethyl Ketone (MEK) (2-Butanone)	µg/L	n/v	1,800[G] 1,800[H]	<10	-	<10	<10	-	-	<10	-	<10	-	<10	-	<10	<10	<10	<10	-
Methyl Isobutyl Ketone (MIBK)	µg/L	n/v	640[G] 640[H]	<5.0	-	<5.0	<5.0	-	-	<5.0	-	<5.0	-	<5.0	-	<5.0	<5.0	<5.0	<5.0	-
Methyl tert-butyl ether (MTBE)	µg/L	n/v	15[G] 15[H]	<0.50	-	<0.50	<0.50	-	-	<0.50	-	<0.50	-	<0.50	-	<0.50	<0.50	<0.50	<0.50	-
Methylene Chloride (Dichloromethane)	µg/L	50[C]	26[G] 50[H]	<2.0	-	<2.0	<2.0	-	-	<2.0	-	<2.0	-	<2.0	-	<2.0	<2.0	<2.0	<2.0	-
Styrene	µg/L	n/v	5.4[G] 5.4[H]	<0.50	-	<0.50	<0.50	-	-	<0.50	-	<0.50	-	<0.50	-	<0.50	<0.50	<0.50	<0.50	-
Tetrachloroethane, 1,1,1,2-	µg/L	n/v	1.1[G] 1.1[H]	<0.50	-	<0.50	<0.50	-	-	<0.50	-	<0.50	-	<0.50	-	<0.50	<0.50	<0.50	<0.50	-
Tetrachloroethane, 1,1,2,2-	µg/L	n/v	0.5[G] 1[H]	<0.50	-	<0.50	<0.50	-	-	<0.50	-	<0.50	-	<0.50	-	<0.50	<0.50	<0.50	<0.50	-
Tetrachloroethene (PCE)	µg/L	30[C]	0.5[G] 1.6[H]	<0.20	-	<0.20	<0.20	-	-	<0.20	-	<0.20	-	<0.20	-	<0.20	<0.20	<0.20	<0.20	-
Trichloroethane, 1,1,1-	µg/L	n/v	23[G] 200[H]	<0.20	-	<0.20	<0.20	-	-	<0.20	-	<0.20	-	<0.20	-	<0.20	<0.20	<0.20	<0.20	-
Trichloroethane, 1,1,2-	µg/L	n/v	0.5[G] 4.7[H]	<0.50	-	<0.50	<0.50	-	-	<0.50	-	<0.50	-	<0.50	-	<0.50	<0.50	<0.50	<0.50	-
Trichloroethene (TCE)	µg/L	5[C]	0.5[G] 1.6[H]	<0.20	-	<0.20	<0.20	-	-	<0.20	-	<0.20	-	<0.20	-	<0.20	<0.20	<0.20	<0.20	-
Trichlorofluoromethane (Freon 11)	µg/L	n/v	150[G] 150[H]	<0.50	-	<0.50	<0.50	-	-	<0.50	-	<0.50	-	<0.50	-	<0.50	<0.50	<0.50	<0.50	-
Trihalomethanes	µg/L	100[e C]	n/v	<0.20	-	-	-	-	-	-	-	-	-	<1.0	-	-	-	-	-	-
Vinyl Chloride	µg/L	1[C]	0.5[G] 0.5[H]	<0.20	-	<0.20	<0.20	-	-	<0.20	-	<0.20	-	<0.20	-	<0.20	<0.20	<0.20	<0.20	-

See notes on last page

Table 7
Summary of Groundwater Analytical Results - Monitoring Wells
Clarington Transformer Station
Hydro One Networks Inc.

Sample Location				MW3-13-D (Contd.)												MW3-13-S				
Sample Date				8-Apr-15	8-Apr-15	5-Oct-15	5-Oct-15	14-Apr-16	14-Apr-16	3-Nov-16	3-Nov-16	25-Apr-17	25-Apr-17	17-Oct-17	17-Oct-17	13-Dec-13	19-Mar-14	8-May-14	14-Aug-14	1-Oct-14
Sample ID				WG-160900764-20150408-RD02	WG-160900764-20150408-RD02A	WG-160900764-20151005-RD02	WG-160900764-20151005-RD02A	WG-160900764-20160414-AM12	WG-160900764-20160414-AM12A	WG-160900764-20161103-AM15	WG-160900764-20161103-AM15A	WG-160900764-20170425-KR-07	WG-160900764-20170425-KR-07A	WG-160900764-20171017-RD09	WG-160900764-20171017-RD09A	CLARS1213TWG-160960745-20131213-JK6	MW3-13-S	MW3-13-S	MW3-13-S	WG-160900764-20141001-JK1
Sampling Company				STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC
Laboratory				MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX
Laboratory Work Order				B561683	B561683	B5K2885	B5K2885	B674631	B674631	B6N9173	B6N9173	B783695	B783695	B7N0947	B7N0947	B3L6734	B443695	B476124	B4E7727	B4I4645
Laboratory Sample ID				ABP941	ABP942	BCN649	BCN651	CER537	CER538	DJP832	DJP833	EGX371	EGX376	FIY629	FIY630	UH4006	VG2318	VV5727	XD5194	XV9677
Filtered				Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC	Lab Filtered SVOC	Lab Filtered SVOC	Lab Filtered SVOC	Lab Filtered SVOC	Lab Filtered SVOC
Sample Type	Units	ODWS	Ontario SCS																	
General Chemistry																				
Acidity	mg/L	n/v	n/v	14	-	13	-	18	-	10	-	13	-	<5.0	-	-	13	<10	14	10
Alkalinity, Bicarbonate (as CaCO3)	mg/L	n/v	n/v	170	-	170	-	170	-	160	-	160	-	160	-	210	200	220	220	230
Alkalinity, Carbonate (as CaCO3)	mg/L	n/v	n/v	<1	-	<1.0	-	<1.0	-	1.3	-	1.2	-	1.5	-	<1.0	1.7	2.5	2.3	2.4
Alkalinity, Total (as CaCO3)	mg/L	30-500[E]	n/v	170	-	170	-	170	-	160	-	160	-	160	-	210	200	220	220	230
Ammonia (as N)	mg/L	n/v	n/v	<0.05	-	<0.050	-	<0.050	-	<0.050	-	<0.050	-	<0.050	-	0.23	0.31	0.34	0.24	0.18
Anion Sum	meq/L	n/v	n/v	20.1	-	19.3	-	18.2	-	16.3	-	16.4	-	14.7	-	11.1	8.21	7.26	7.66	7.53
Cation Sum	meq/L	n/v	n/v	21.4	-	21.0	-	18.5	-	17.2	-	17.1	-	15.0	-	11.1	7.67	7.75	7.68	7.49
Chloride	mg/L	250[D]	790[G] 790[H]	28	-	24	-	24	-	22	-	21	-	20	-	32	22	19	18	16
Cyanide (Free)	µg/L	200[C]	52[G] 52[H]	<2	-	<2	-	<2	-	<1	-	<1	-	<1	-	-	<2	<2	<2	<2
Dissolved Organic Carbon (DOC)	mg/L	5[D]	n/v	2.0	-	1.6	-	2.0	-	1.6	-	1.6	-	1.3	-	4.1	2.9	1.6	1.2	1.3
Electrical Conductivity, Lab	µmhos/cm	n/v	n/a[GH]	1,900	-	1,800	-	1,700	-	1,600	-	1,600	-	1,400	-	1,100	760	700	720	710
Fluoride	mg/L	1.5$_b$[C]	n/v	0.30	-	0.29	-	0.32	-	0.32	-	0.32	-	0.38	-	-	0.29	0.30	0.29	0.30
Hardness (as CaCO3)	mg/L	80-100[E]	n/v	**640[E]**	-	**600[E]**	-	**510[E]**	-	**460[E]**	-	**440[E]**	-	**370[E]**	-	**470[E]**	**310[E]**	**330[E]**	**330[E]**	**320[E]**
Ion Balance	%	n/v	n/v	3.13	-	4.31	-	1.08	-	2.49	-	2.04	-	0.920	-	0.210	3.36	3.26	0.160	0.230
Langelier Index (at 20 C)	none	n/v	n/v	0.603	-	0.415	-	0.325	-	0.637	-	0.584	-	0.623	-	0.557	0.620	0.788	0.739	0.736
Langelier Index (at 4 C)	none	n/v	n/v	0.358	-	0.171	-	0.0800	-	0.391	-	0.339	-	0.377	-	0.310	0.372	0.540	0.492	0.488
Nitrate (as N)	mg/L	10.0$_d$[C]	n/v	0.97	-	0.65	-	0.49	-	0.35	-	0.31	-	0.19	-	5.56	1.35	3.95	2.90	4.03
Nitrate + Nitrite (as N)	mg/L	10.0$_d$[C]	n/v	0.97	-	0.70	-	0.49	-	0.35	-	0.31	-	0.19	-	5.73	2.06	4.06	3.11	4.03
Nitrite (as N)	mg/L	1.0$_d$[C]	n/v	<0.01	-	0.047	-	<0.010	-	<0.010	-	<0.010	-	<0.010	-	0.163	0.714	0.118	0.211	0.058
Orthophosphate(as P)	mg/L	n/v	n/v	<0.01	-	<0.010	-	0.019	-	0.012	-	<0.010	-	<0.010	-	<0.010	<0.010	<0.010	<0.010	<0.010
pH	S.U.	6.5-8.5[E]	n/v	7.77	-	7.61	-	7.60	-	7.96	-	7.93	-	8.02	-	7.68	7.97	8.10	8.05	8.05
Saturation pH (at 20 C)	none	n/v	n/v	7.17	-	7.19	-	7.27	-	7.32	-	7.34	-	7.40	-	7.13	7.35	7.31	7.32	7.31
Saturation pH (at 4 C)	none	n/v	n/v	7.41	-	7.44	-	7.52	-	7.56	-	7.59	-	7.65	-	7.37	7.60	7.56	7.56	7.56
Sulfate	mg/L	500$_h$[D]	n/v	**760[D]**	-	**730[D]**	-	**680[D]**	-	**600[D]**	-	**610[D]**	-	**530[D]**	-	270	170	100	120	100
Total Dissolved Solids	mg/L	500[D]	n/v	**1,490[D]**	-	**1,410[D]**	-	**1,340[D]**	-	**1,160[D]**	-	**1,180[D]**	-	**995[D]**	-	-	478	472	**502[D]**	**526[D]**
Total Dissolved Solids (Calculated)	mg/L	500[D]	n/v	**1,300[D]**	-	**1,300[D]**	-	**1,200[D]**	-	**1,100[D]**	-	**1,100[D]**	-	**950[D]**	-	-	-	-	-	-
Total Organic Carbon	mg/L	n/v	n/v	2.8	-	2.0	-	2.9	-	2.3	-	2.9	-	1.5	-	-	3.9	5.2	3.8	2.1
Total Suspended Solids	mg/L	n/v	n/v	200	-	36	-	120	-	440	-	260	-	16	-	-	2,200	690	770	640
Turbidity, Lab	NTU	5$_h$[D] [E]	n/v	**45[D]**	-	**23[D]**	-	**87[D]**	-	**290[D]**	-	**210[D]**	-	3.7	-	-	**110[D]**	**160[D]**	**310[D]**	**92[D]**
BTEX and Petroleum Hydrocarbons																				
Benzene	µg/L	1[C]	0.5[G] 5[H]	<0.2	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-	<0.20	<0.20	<0.20	<0.20	<0.20
Toluene	µg/L	24[D]	24[G] 22[H]	<0.2	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-	0.87	<0.20	<0.20	<0.20	<0.20
Ethylbenzene	µg/L	2.4[D]	2.4[G] 2.4[H]	<0.2	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-	<0.20	<0.20	<0.20	<0.20	<0.20
Xylene, m & p-	µg/L	300$_{s1}$[D]	$_{s1}$[GH]	<0.2	-	<0.40	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-	<0.40	<0.20	<0.20	<0.20	<0.40
Xylene, o-	µg/L	300$_{s1}$[D]	$_{s1}$[GH]	<0.2	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-	<0.20	<0.20	<0.20	<0.20	<0.20
Xylenes, Total	µg/L	300[D]	72$_{s1}$[G] 300$_{s1}$[H]	<0.2	-	<0.40	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-	<0.40	<0.20	<0.20	<0.20	<0.40
PHC F1 (C6-C10 range)	µg/L	n/v	$_{s7}$[GH]	<25	-	<25	-	<25	-	<25	-	<25	-	<25	-	<25	<25	<25	<25	<25
PHC F1 (C6-C10 range) minus BTEX	µg/L	n/v	420$_{s7}$[GH]	<25	-	<25	-	<25	-	<25	-	<25	-	<25	-	<25	<25	<25	<25	<25
PHC F2 (>C10-C16 range)	µg/L	n/v	150$_{s15}$[GH]	<100	-	<100	-	<100	-	<100	-	<100	-	<100	-	<100	<100	<100	<100	<100
PHC F3 (>C16-C34 range)	µg/L	n/v	500$_{s8}$[GH]	<200	-	<200	-	<200	-	<200	-	<200	-	<200	-	<200	<200	<200	<200	<200
PHC F4 (>C34-C50 range)	µg/L	n/v	500$_{s10}$[GH]	<200	-	<200	-	<200	-	<200	-	<200	-	<200	-	<200	<200	<200	<200	<200
Chromatogram to baseline at C50	none	n/v	n/v	YES	-	YES	-	YES	-	YES	-	YES	-	YES	-	YES	YES	YES	YES	YES

See notes on last page

Table 7
Summary of Groundwater Analytical Results - Monitoring Wells
Clarington Transformer Station
Hydro One Networks Inc.

Sample Location				MW3-13-D (Contd.)												MW3-13-S				
Sample Date				8-Apr-15	8-Apr-15	5-Oct-15	5-Oct-15	14-Apr-16	14-Apr-16	3-Nov-16	3-Nov-16	25-Apr-17	25-Apr-17	17-Oct-17	17-Oct-17	13-Dec-13	19-Mar-14	8-May-14	14-Aug-14	1-Oct-14
Sample ID				WG-160900764-20150408-RD02	WG-160900764-20150408-RD02A	WG-160900764-20151005-RD02	WG-160900764-20151005-RD02A	WG-160900764-20160414-AM12	WG-160900764-20160414-AM12A	WG-160900764-20161103-AM15	WG-160900764-20161103-AM15A	WG-160900764-20170425-KR-07	WG-160900764-20170425-KR-07A	WG-160900764-20171017-RD09	WG-160900764-20171017-RD09A	CLARS1213TWG-160960745-20131213-JK6	MW3-13-S	MW3-13-S	MW3-13-S	WG-160900764-20141001-JK1
Sampling Company				STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC
Laboratory				MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX
Laboratory Work Order				B561683	B561683	B5K2885	B5K2885	B674631	B674631	B6N9173	B6N9173	B783695	B783695	B7N0947	B7N0947	B3L6734	B443695	B476124	B4E7727	B4I4645
Laboratory Sample ID				ABP941	ABP942	BCN649	BCN651	CER537	CER538	DJP832	DJP833	EGX371	EGX376	FIY629	FIY630	UH4006	VG2318	VV5727	XD5194	XV9677
Filtered				Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC	Lab Filtered SVOC	Lab Filtered SVOC	Lab Filtered SVOC	Lab Filtered SVOC	Lab Filtered SVOC
Sample Type	Units	ODWS	Ontario SCS																	
Metals																				
Aluminum	µg/L	100[E]	n/v	<5	-	<5.0	-	<5	-	<5	-	<5.0	-	11	-	<5.0	7.7	5.5	6.1	7.8
Antimony	µg/L	6[B]	6[G] 6[H]	<0.5	-	<0.5	-	0.54	-	<0.5	-	<0.50	-	<0.5	-	<0.50	<0.50	<0.50	<0.50	0.91
Arsenic	µg/L	25[B]	25[G] 25[H]	<1	-	<1	-	<1	-	<1	-	<1.0	-	<1	-	<1.0	<1.0	<1.0	<1.0	<1.0
Barium	µg/L	1,000[C]	1,000[G] 1,000[H]	24	-	25	-	30	-	23	-	19	-	19	-	72	55	51	54	56
Beryllium	µg/L	n/v	4[G] 4[H]	<0.5	-	<0.5	-	<0.5	-	<0.5	-	<0.50	-	<0.5	-	<0.50	<0.50	<0.50	<0.50	<0.50
Boron	µg/L	5,000[B]	5,000[G] 5,000[H]	350	-	310	-	320	-	290	-	300	-	280	-	110	130	82	110	98
Cadmium	µg/L	5[C]	2.1[G] 2.1[H]	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.10	-	<0.1	-	<0.10	<0.10	<0.10	<0.10	<0.10
Calcium	µg/L	n/v	n/v	160,000	-	150,000	-	120,000	-	110,000	-	110,000	-	89,000	-	110,000	66,000	65,000	65,000	63,000
Chromium	µg/L	50[C]	50[G] 50[H]	<5	-	<5.0	-	<5	-	<5	-	<5.0	-	<5	-	<5.0	<5.0	<5.0	<5.0	<5.0
Chromium (Hexavalent)	µg/L	n/v	25[G] 25[H]	<0.5	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	-	<1.0	<0.50	<2.5	<0.50
Cobalt	µg/L	n/v	3.8[G] 3.8[H]	<0.5	-	<0.5	-	<0.5	-	<0.5	-	<0.50	-	<0.5	-	0.83	0.55	<0.50	<0.50	<0.50
Copper	µg/L	1,000[D]	69[G] 69[H]	1.3	-	1.1	-	3.5	-	<1	-	<1.0	-	<1	-	1.1	<1.0	<1.0	<1.0	<1.0
Iron	µg/L	300[D]	n/v	<100	-	<100	-	<100	-	<100	-	<100	-	<100	-	<100	<100	<100	<100	<100
Lead	µg/L	10[C]	10[G] 10[H]	<0.5	-	<0.5	-	<0.5	-	<0.5	-	<0.50	-	<0.5	-	<0.50	<0.50	<0.50	<0.50	<0.50
Magnesium	µg/L	n/v	n/v	59,000	-	55,000	-	47,000	-	43,000	-	41,000	-	36,000	-	45,000	36,000	41,000	40,000	40,000
Manganese	µg/L	50[D]	n/v	22	-	18	-	27	-	13	-	13	-	6.8	-	**57[D]**	30	19	14	7.6
Mercury	µg/L	1[C]	0.1[G] 0.29[H]	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	-	0.00015	<0.10	<0.10	<0.1
Molybdenum	µg/L	n/v	70[G] 70[H]	67	-	56	-	67	-	63	-	69	-	**85[GH]**	-	19	23	16	18	14
Nickel	µg/L	n/v	100[G] 100[H]	1.8	-	1.5	-	1.9	-	1.6	-	1.4	-	1	-	1.5	1.5	<1.0	<1.0	1.6
Phosphorus	µg/L	n/v	n/v	<100	-	<100	-	530	-	<100	-	<100	-	<100	-	<100	<100	<100	<100	<100
Potassium	µg/L	n/v	n/v	9,800	-	7,500	-	6,200	-	5,500	-	5,500	-	5,000	-	18,000	10,000	7,600	7,600	6,900
Selenium	µg/L	10[C]	10[G] 10[H]	<2	-	<2	-	<2	-	<2	-	<2.0	-	<2	-	<2.0	<2.0	<2.0	<2.0	<2.0
Silicon	µg/L	n/v	n/v	4,700	-	4,300	-	3,800	-	4,000	-	4,000	-	3,900	-	5,200	4,900	5,900	6,000	6,200
Silver	µg/L	n/v	1.2[G] 1.2[H]	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.10	-	<0.1	-	<0.10	<0.10	0.20	<0.10	<0.10
Sodium	µg/L	200,000$_g$[D] 20,000$_g$[F]	490,000[G] 490,000[H]	**190,000[F]**	-	**200,000[F]**	-	**190,000[F]**	-	**180,000[F]**	-	**190,000[F]**	-	**170,000[F]**	-	**28,000[F]**	**26,000[F]**	20,000	**22,000[F]**	20,000
Strontium	µg/L	n/v	n/v	2,200	-	2,200	-	1,900	-	1,700	-	1,700	-	1,600	-	900	750	810	820	850
Thallium	µg/L	n/v	2[G] 2[H]	<0.05	-	<0.05	-	<0.05	-	<0.05	-	<0.050	-	<0.05	-	0.060	<0.050	<0.050	<0.050	<0.050
Titanium	µg/L	n/v	n/v	<5	-	<5.0	-	<5	-	<5	-	<5.0	-	<5	-	<5.0	<5.0	<5.0	<5.0	<5.0
Uranium	µg/L	20[C]	20[G] 20[H]	7.3	-	6	-	6.1	-	5.4	-	5.3	-	4.8	-	6.0	6.1	4.1	4.6	4.6
Vanadium	µg/L	n/v	6.2[G] 6.2[H]	<0.5	-	<0.5	-	0.66	-	<0.5	-	<0.50	-	<0.5	-	0.82	<0.50	0.69	0.63	0.77
Zinc	µg/L	5,000[D]	890[G] 890[H]	<5	-	<5.0	-	<5	-	<5	-	18	-	<5	-	<5.0	15	<5.0	<5.0	<5.0
Zirconium	µg/L	n/v	n/v	<1	-	<1	-	<1	-	<1	-	<1.0	-	<1	-	<1.0	-	<1.0	-	<1.0
Polychlorinated Biphenyls																				
Aroclor 1242	µg/L	n/v	$_{s14}$[GH]	<0.05	-	<0.05	-	<0.05	-	<0.05	-	<0.05	-	<0.05	-	-	<0.05	<0.05	<0.05	<0.05
Aroclor 1248	µg/L	n/v	$_{s14}$[GH]	<0.05	-	<0.05	-	<0.05	-	<0.05	-	<0.05	-	<0.05	-	-	<0.05	<0.05	<0.05	<0.05
Aroclor 1254	µg/L	n/v	$_{s14}$[GH]	<0.05	-	<0.05	-	<0.05	-	<0.05	-	<0.05	-	<0.05	-	-	<0.05	<0.05	<0.05	<0.05
Aroclor 1260	µg/L	n/v	$_{s14}$[GH]	<0.05	-	<0.05	-	<0.05	-	<0.05	-	<0.05	-	<0.05	-	-	<0.05	<0.05	<0.05	<0.05
Polychlorinated Biphenyls (PCBs)	µg/L	3[B]	0.2$_{s14}$[GH]	<0.05	-	<0.05	-	<0.05	-	<0.05	-	<0.05	-	<0.05	-	-	<0.05	<0.05	<0.05	<0.05

See notes on last page

Table 7
Summary of Groundwater Analytical Results - Monitoring Wells
Clarington Transformer Station
Hydro One Networks Inc.

Sample Location				MW3-13-D (Contd.)												MW3-13-S				
Sample Date				8-Apr-15	8-Apr-15	5-Oct-15	5-Oct-15	14-Apr-16	14-Apr-16	3-Nov-16	3-Nov-16	25-Apr-17	25-Apr-17	17-Oct-17	17-Oct-17	13-Dec-13	19-Mar-14	8-May-14	14-Aug-14	1-Oct-14
Sample ID				WG-160900764-20150408-RD02	WG-160900764-20150408-RD02A	WG-160900764-20151005-RD02	WG-160900764-20151005-RD02A	WG-160900764-20160414-AM12	WG-160900764-20160414-AM12A	WG-160900764-20161103-AM15	WG-160900764-20161103-AM15A	WG-160900764-20170425-KR-07	WG-160900764-20170425-KR-07A	WG-160900764-20171017-RD09	WG-160900764-20171017-RD09A	CLARS1213TWG-160960745-20131213-JK6	MW3-13-S	MW3-13-S	MW3-13-S	WG-160900764-20141001-JK1
Sampling Company				STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC
Laboratory				MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX
Laboratory Work Order				B561683	B561683	B5K2885	B5K2885	B674631	B674631	B6N9173	B6N9173	B783695	B783695	B7N0947	B7N0947	B3L6734	B443695	B476124	B4E7727	B4I4645
Laboratory Sample ID				ABP941	ABP942	BCN649	BCN651	CER537	CER538	DJP832	DJP833	EGX371	EGX376	FIY629	FIY630	UH4006	VG2318	VV5727	XD5194	XV9677
Filtered				Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC	Lab Filtered SVOC	Lab Filtered SVOC	Lab Filtered SVOC	Lab Filtered SVOC	Lab Filtered SVOC
Sample Type	Units	ODWS	Ontario SCS																	
Semi-Volatile Organic Compounds																				
Phthalates																				
Bis(2-Ethylhexyl)phthalate (DEHP)	µg/L	n/v	10[G] 10[H]	2	<1	1	<1	<1	<1	5	<1	5	<1	4	<1	-	11[GH]	3	2	4
Diethyl Phthalate	µg/L	n/v	30[G] 30[H]	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.4	<0.1	<0.1	<0.1	<0.1	<0.1	-	0.6	<0.1	0.1	<0.1
Dimethyl Phthalate	µg/L	n/v	30[G] 30[H]	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.4	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1	<0.1	<0.1
Polycyclic Aromatic Hydrocarbons																				
Acenaphthene	µg/L	n/v	4.1[G] 4.1[H]	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.8	<0.2	<0.2	<0.2	<0.2	<0.2	-	<0.2	<0.2	<0.2	<0.2
Acenaphthylene	µg/L	n/v	1[G] 1[H]	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.8	<0.2	<0.2	<0.2	<0.2	<0.2	-	<0.2	<0.2	<0.2	<0.2
Anthracene	µg/L	n/v	1[G] 1[H]	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.05
Benzo(a)anthracene	µg/L	n/v	1[G] 1[H]	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05	<0.05	-	0.13	0.08	<0.05	0.05
Benzo(a)pyrene	µg/L	0.01[C]	0.01[G] 0.01[H]	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	**0.06**[CGH]	<0.01	**0.04**[CGH]	<0.01	**0.03**[CGH]	<0.01	-	**0.08**[CGH]	**0.05**[CGH]	<0.01	**0.04**[CGH]
Benzo(b/j)fluoranthene	µg/L	n/v	0.1[s2][GH]	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	**<0.2**	<0.05	<0.05	<0.05	<0.05	<0.05	-	**0.13**[GH]	0.07	<0.05	0.06
Benzo(g,h,i)perylene	µg/L	n/v	0.2[G] 0.2[H]	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.1	<0.05	-	<0.1	<0.1 MI	<0.05	<0.1 MI
Benzo(k)fluoranthene	µg/L	n/v	0.1[G] 0.1[H]	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	**<0.2**	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.05
Chrysene	µg/L	n/v	0.1[G] 0.1[H]	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	**<0.2**	<0.05	<0.05	<0.05	<0.05	<0.05	-	**0.12**[GH]	0.08	<0.05	0.05
Dibenzo(a,h)anthracene	µg/L	n/v	0.2[G] 0.2[H]	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	**<0.4**	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1	<0.1	<0.1
Fluoranthene	µg/L	n/v	0.41[G] 0.41[H]	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	**<0.8**	<0.2	<0.2	<0.2	<0.2	<0.2	-	<0.2	<0.2	<0.2	<0.2
Fluorene	µg/L	n/v	120[G] 120[H]	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.8	<0.2	<0.2	<0.2	<0.2	<0.2	-	<0.2	<0.2	<0.2	<0.2
Indeno(1,2,3-cd)pyrene	µg/L	n/v	0.2[G] 0.2[H]	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	**<0.4**	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1	<0.1	<0.1
Methylnaphthalene (Total)	µg/L	n/v	3.2[s3][GH]	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<1.1	<0.28	<0.28	<0.28	<0.28	<0.28	-	<0.28	<0.28	<0.28	<0.28
Methylnaphthalene, 1-	µg/L	n/v	[s3][GH]	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.8	<0.2	<0.2	<0.2	<0.2	<0.2	-	<0.2	<0.2	<0.2	<0.2
Methylnaphthalene, 2-	µg/L	n/v	[s3][GH]	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.8	<0.2	<0.2	<0.2	<0.2	<0.2	-	<0.2	<0.2	<0.2	<0.2
Naphthalene	µg/L	n/v	7[G] 11[H]	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.8	<0.2	<0.2	<0.2	<0.2	<0.2	-	<0.2	<0.2	0.2	<0.2
Phenanthrene	µg/L	n/v	1[G] 1[H]	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.4	<0.1	<0.1	<0.1	<0.1	<0.1	-	0.2	<0.1	<0.1	<0.1
Pyrene	µg/L	n/v	4.1[G] 4.1[H]	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	0.08	<0.05	0.07	<0.05	-	0.26	0.15	0.20	0.13
Remaining Semi-Volatile Organic Compounds																				
Biphenyl, 1,1'- (Biphenyl)	µg/L	n/v	0.5[G] 0.5[H]	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.4	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1	<0.1	<0.1
Bis(2-Chloroethyl)ether	µg/L	n/v	5[G] 5[H]	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5
Bis(2-Chloroisopropyl)ether	µg/L	n/v	120[G] 120[H]	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5
Chloroaniline, 4-	µg/L	n/v	10[G] 10[H]	<1	<1	<1	<1	<1	<1	<4	<1	<1	<1	<1	<1	-	<1	<1	<1	<1
Chlorophenol, 2- (ortho-Chlorophenol)	µg/L	n/v	8.9[G] 8.9[H]	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.4	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1	<0.1	<0.1
Dichlorobenzidine, 3,3'-	µg/L	n/v	0.5[G] 0.5[H]	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**<2**	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5
Dichlorophenol, 2,4-	µg/L	900[C] 0.3[t][D]	20[G] 20[H]	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	**<0.4**	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1	<0.1	<0.1
Dimethylphenol, 2,4-	µg/L	n/v	59[G] 59[H]	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5
Dinitrophenol, 2,4-	µg/L	n/v	10[G] 10[H]	<2	<2	<2	<2	<2	<2	<8	<2	<2	<2	<2	<2	-	<2	<2	<2	<2
Dinitrotoluene, 2,4-	µg/L	n/v	5[13][GH]	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<1	<0.3	<0.3	<0.3	<0.3	<0.3	-	<0.3	<0.3	<0.3	<0.3
Dinitrotoluene, 2,6-	µg/L	n/v	5[13][GH]	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<1	<0.3	<0.3	<0.3	<0.3	<0.3	-	<0.3	<0.3	<0.3	<0.3
Pentachlorophenol	µg/L	60[C] 30[t][D]	30[G] 30[H]	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.4	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1	<0.1	<0.1
Phenol	µg/L	n/v	890[G] 890[H]	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5
Trichlorobenzene, 1,2,4-	µg/L	n/v	3[G] 70[H]	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.4	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1	<0.1	<0.1
Trichlorophenol, 2,4,5-	µg/L	n/v	8.9[G] 8.9[H]	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.8	<0.2	<0.2	<0.2	<0.2	<0.2	-	<0.2	<0.2	<0.2	<0.2
Trichlorophenol, 2,4,6-	µg/L	5[C] 2[t][D]	2[G] 2[H]	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.8	<0.2	<0.2	<0.2	<0.2	<0.2	-	<0.2	<0.2	<0.2	<0.2

See notes on last page

Table 7
Summary of Groundwater Analytical Results - Monitoring Wells
Clarington Transformer Station
Hydro One Networks Inc.

Sample Location				MW3-13-D (Contd.)												MW3-13-S				
Sample Date				8-Apr-15	8-Apr-15	5-Oct-15	5-Oct-15	14-Apr-16	14-Apr-16	3-Nov-16	3-Nov-16	25-Apr-17	25-Apr-17	17-Oct-17	17-Oct-17	13-Dec-13	19-Mar-14	8-May-14	14-Aug-14	1-Oct-14
Sample ID				WG-160900764-20150408-RD02	WG-160900764-20150408-RD02A	WG-160900764-20151005-RD02	WG-160900764-20151005-RD02A	WG-160900764-20160414-AM12	WG-160900764-20160414-AM12A	WG-160900764-20161103-AM15	WG-160900764-20161103-AM15A	WG-160900764-20170425-KR-07	WG-160900764-20170425-KR-07A	WG-160900764-20171017-RD09	WG-160900764-20171017-RD09A	CLARS1213TWG-160960745-20131213-JK6	MW3-13-S	MW3-13-S	MW3-13-S	WG-160900764-20141001-JK1
Sampling Company				STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC
Laboratory				MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX
Laboratory Work Order				B561683	B561683	B5K2885	B5K2885	B674631	B674631	B6N9173	B6N9173	B783695	B783695	B7N0947	B7N0947	B3L6734	B443695	B476124	B4E7727	B4I4645
Laboratory Sample ID				ABP941	ABP942	BCN649	BCN651	CER537	CER538	DJP832	DJP833	EGX371	EGX376	FIY629	FIY630	UH4006	VG2318	VV5727	XD5194	XV9677
Filtered				Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC	Lab Filtered SVOC	Lab Filtered SVOC	Lab Filtered SVOC	Lab Filtered SVOC	Lab Filtered SVOC
Sample Type	Units	ODWS	Ontario SCS																	
Volatile Organic Compounds																				
Acetone	µg/L	n/v	2,700[G] 2,700[H]	<10	-	<10	-	<10	-	<10	-	<10	-	<10	-	-	<10	<10	<10	<10
Bromodichloromethane	µg/L	n/v	16[G] 16[H]	<0.5	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	-	<0.50	<0.50	<0.50	<0.50
Bromoform (Tribromomethane)	µg/L	n/v	5[G] 25[H]	<1	-	<1.0	-	<1.0	-	<1.0	-	<1.0	-	<1.0	-	-	<1.0	<1.0	<1.0	<1.0
Bromomethane (Methyl bromide)	µg/L	n/v	0.89[G] 0.89[H]	<0.5	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	-	<0.50	<0.50	<0.50	<0.50
Carbon Tetrachloride (Tetrachloromethane)	µg/L	2[C]	0.2[G] 0.79[H]	<0.2	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-	-	<0.20	<0.20	<0.20	<0.20
Chlorobenzene (Monochlorobenzene)	µg/L	80[C] 30[D]	30[G] 30[H]	<0.2	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-	-	<0.20	<0.20	<0.20	<0.20
Chloroform (Trichloromethane)	µg/L	n/v	2[G] 2.4[H]	<0.2	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-	-	<0.20	<0.20	<0.20	<0.20
Dibromochloromethane	µg/L	n/v	25[G] 25[H]	<0.5	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	-	<0.50	<0.50	<0.50	<0.50
Dichlorobenzene, 1,2-	µg/L	200[C] 3[D]	3[G] 3[H]	<0.5	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	-	<0.50	<0.50	<0.50	<0.50
Dichlorobenzene, 1,3-	µg/L	n/v	59[G] 59[H]	<0.5	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	-	<0.50	<0.50	<0.50	<0.50
Dichlorobenzene, 1,4-	µg/L	5[C] 1[D]	0.5[G] 1[H]	<0.5	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	-	<0.50	<0.50	<0.50	<0.50
Dichlorodifluoromethane (Freon 12)	µg/L	n/v	590[G] 590[H]	<1	-	<1.0	-	<1.0	-	<1.0	-	<1.0	-	<1.0	-	-	<1.0	<1.0	<1.0	<1.0
Dichloroethane, 1,1-	µg/L	n/v	5[G] 5[H]	<0.2	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-	-	<0.20	<0.20	<0.20	<0.20
Dichloroethane, 1,2-	µg/L	5[B]	0.5[G] 1.6[H]	<0.5	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	-	<0.50	<0.50	<0.50	<0.50
Dichloroethene, 1,1-	µg/L	14[C]	0.5[G] 1.6[H]	<0.2	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-	-	<0.20	<0.20	<0.20	<0.20
Dichloroethene, cis-1,2-	µg/L	n/v	1.6[G] 1.6[H]	<0.5	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	-	<0.50	<0.50	<0.50	<0.50
Dichloroethene, trans-1,2-	µg/L	n/v	1.6[G] 1.6[H]	<0.5	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	-	<0.50	<0.50	<0.50	<0.50
Dichloropropane, 1,2-	µg/L	n/v	0.58[G] 5[H]	<0.2	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-	-	<0.20	<0.20	<0.20	<0.20
Dichloropropene, 1,3- (sum of isomers cis + trans)	µg/L	n/v	0.5[511][GH]	<0.5	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	-	<0.50	<0.50	<0.50	<0.50
Dichloropropene, cis-1,3-	µg/L	n/v	[511][GH]	<0.3	-	<0.30	-	<0.30	-	<0.30	-	<0.30	-	<0.30	-	-	<0.30	<0.30	<0.30	<0.30
Dichloropropene, trans-1,3-	µg/L	n/v	[511][GH]	<0.4	-	<0.40	-	<0.40	-	<0.40	-	<0.40	-	<0.40	-	-	<0.40	<0.40	<0.40	<0.40
Ethylene Dibromide (Dibromoethane, 1,2-)	µg/L	n/v	0.2[G] 0.2[H]	<0.2	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-	-	<0.20	<0.20	<0.20	<0.20
Hexane (n-Hexane)	µg/L	n/v	5[G] 51[H]	<1	-	<1.0	-	<1.0	-	<1.0	-	<1.0	-	<1.0	-	-	<1.0	<1.0	<1.0	<1.0
Methyl Ethyl Ketone (MEK) (2-Butanone)	µg/L	n/v	1,800[G] 1,800[H]	<10	-	<10	-	<10	-	<10	-	<10	-	<10	-	-	<10	<10	<10	<10
Methyl Isobutyl Ketone (MIBK)	µg/L	n/v	640[G] 640[H]	<5	-	<5.0	-	<5.0	-	<5.0	-	<5.0	-	<5.0	-	-	<5.0	<5.0	<5.0	<5.0
Methyl tert-butyl ether (MTBE)	µg/L	n/v	15[G] 15[H]	<0.5	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	-	<0.50	<0.50	<0.50	<0.50
Methylene Chloride (Dichloromethane)	µg/L	50[C]	26[G] 50[H]	<2	-	<2.0	-	<2.0	-	<2.0	-	<2.0	-	<2.0	-	-	<2.0	<2.0	<2.0	<2.0
Styrene	µg/L	n/v	5.4[G] 5.4[H]	<0.5	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	-	<0.50	<0.50	<0.50	<0.50
Tetrachloroethane, 1,1,1,2-	µg/L	n/v	1.1[G] 1.1[H]	<0.5	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	-	<0.50	<0.50	<0.50	<0.50
Tetrachloroethane, 1,1,2,2-	µg/L	n/v	0.5[G] 1[H]	<0.5	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	-	<0.50	<0.50	<0.50	<0.50
Tetrachloroethene (PCE)	µg/L	30[C]	0.5[G] 1.6[H]	<0.2	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-	-	<0.20	<0.20	<0.20	<0.20
Trichloroethane, 1,1,1-	µg/L	n/v	23[G] 200[H]	<0.2	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-	-	<0.20	<0.20	<0.20	<0.20
Trichloroethane, 1,1,2-	µg/L	n/v	0.5[G] 4.7[H]	<0.5	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	-	<0.50	<0.50	<0.50	<0.50
Trichloroethene (TCE)	µg/L	5[C]	0.5[G] 1.6[H]	<0.2	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-	-	<0.20	<0.20	<0.20	<0.20
Trichlorofluoromethane (Freon 11)	µg/L	n/v	150[G] 150[H]	<0.5	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	-	<0.50	<0.50	<0.50	<0.50
Trihalomethanes	µg/L	100[e][C]	n/v	-	-	<0.20	-	-	-	-	-	-	-	<1.0	-	-	-	-	-	-
Vinyl Chloride	µg/L	1[C]	0.5[G] 0.5[H]	<0.2	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-	-	<0.20	<0.20	<0.20	<0.20

See notes on last page

Table 7
Summary of Groundwater Analytical Results - Monitoring Wells
Clarington Transformer Station
Hydro One Networks Inc.

Sample Location				MW3-13-S (Contd.)															
Sample Date				20-Nov-14	20-Nov-14	27-Nov-14	27-Nov-14	8-Apr-15	8-Apr-15	5-Oct-15	5-Oct-15	14-Apr-16	14-Apr-16	3-Nov-16	3-Nov-16	25-Apr-17	25-Apr-17	16-Oct-17	16-Oct-17
Sample ID				WG-160900764-20141120-CD01	WG-160900764-20141120-CD01A	WG-160900764-20141127-RD09	WG-160900764-20141127-RD09A	WG-160900764-20150408-RD03	WG-160900764-20150408-RD03A	WG-160900764-20151005-RD01	WG-160900764-20151005-RD01A	WG-160900764-20160414-AM13	WG-160900764-20160414-AM13A	WG-160900764-20161103-AM16	WG-160900764-20161103-AM16A	WG-160900764-20170425-KR-08	WG-160900764-20170425-KR-08A	WG-160900764-20171016-RD04	WG-160900764-20171016-RD04A
Sampling Company				STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC
Laboratory				MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX
Laboratory Work Order				B4M0745	B4M0745	B4M5208	B4M5208	B561683	B561683	B5K2885	B5K2885	B674631	B674631	B6N9173	B6N9173	B783695	B783695	B7M9492	B7M9492
Laboratory Sample ID				YO3440	YO3441	YQ4966	YQ4967	ABP943	ABP944	BCN647	BCN648	CER539	CER540	DJP834	DJP835	EGX372	EGX377	FIQ046	FIQ047
Filtered				Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC
Sample Type	Units	ODWS	Ontario SCS																
General Chemistry																			
Acidity	mg/L	n/v	n/v	-	-	-	-	14	-	16	-	15	-	12	-	15	-	<5.0	-
Alkalinity, Bicarbonate (as CaCO3)	mg/L	n/v	n/v	-	-	260	-	230	-	230	-	230	-	230	-	230	-	230	-
Alkalinity, Carbonate (as CaCO3)	mg/L	n/v	n/v	-	-	2.2	-	1.9	-	1.4	-	1.7	-	2.1	-	2.4	-	2.6	-
Alkalinity, Total (as CaCO3)	mg/L	30-500[E]	n/v	-	-	260	-	230	-	230	-	230	-	230	-	230	-	230	-
Ammonia (as N)	mg/L	n/v	n/v	-	-	<0.050	-	<0.05	-	<0.050	-	<0.050	-	<0.050	-	<0.050	-	<0.050	-
Anion Sum	meq/L	n/v	n/v	-	-	7.73	-	7.62	-	7.21	-	7.13	-	6.98	-	7.04	-	7.17	-
Cation Sum	meq/L	n/v	n/v	-	-	7.95	-	7.88	-	7.61	-	7.02	-	7.00	-	6.91	-	7.22	-
Chloride	mg/L	250[D]	790[G] 790[H]	-	-	16	-	16	-	15	-	13	-	13	-	15	-	26	-
Cyanide (Free)	µg/L	200[C]	52[G] 52[H]	-	-	-	-	<2	-	<2	-	<2	-	<1	-	<1	-	<1	-
Dissolved Organic Carbon (DOC)	mg/L	5[D]	n/v	-	-	3.6	-	1.8	-	0.89	-	1.8	-	1.1	-	0.80	-	0.80	-
Electrical Conductivity, Lab	µmhos/cm	n/v	n/a[GH]	-	-	700	-	720	-	680	-	660	-	650	-	660	-	630	-
Fluoride	mg/L	1.5_b[C]	n/v	-	-	-	-	0.29	-	0.30	-	0.31	-	0.28	-	0.28	-	0.29	-
Hardness (as CaCO3)	mg/L	80-100[E]	n/v	-	-	**360[E]**	-	**350[E]**	-	**330[E]**	-	**300[E]**	-	**290[E]**	-	**290[E]**	-	**310[E]**	-
Ion Balance	%	n/v	n/v	-	-	1.38	-	1.68	-	2.69	-	0.820	-	0.140	-	0.920	-	0.350	-
Langelier Index (at 20 C)	none	n/v	n/v	-	-	0.808	-	0.703	-	0.537	-	0.576	-	0.675	-	0.716	-	0.803	-
Langelier Index (at 4 C)	none	n/v	n/v	-	-	0.560	-	0.454	-	0.288	-	0.327	-	0.426	-	0.468	-	0.555	-
Nitrate (as N)	mg/L	10.0_d[C]	n/v	-	-	5.42	-	3.59	-	2.13	-	1.52	-	1.19	-	1.30	-	1.18	-
Nitrate + Nitrite (as N)	mg/L	10.0_d[C]	n/v	-	-	5.42	-	3.63	-	2.25	-	1.52	-	1.19	-	1.30	-	1.20	-
Nitrite (as N)	mg/L	1.0_d[C]	n/v	-	-	<0.010	-	0.035	-	0.124	-	<0.010	-	<0.010	-	<0.010	-	0.022	-
Orthophosphate(as P)	mg/L	n/v	n/v	-	-	<0.010	-	<0.01	-	<0.010	-	<0.010	-	0.013	-	<0.010	-	<0.010	-
pH	S.U.	6.5-8.5[E]	n/v	-	-	7.96	-	7.93	-	7.81	-	7.90	-	7.99	-	8.06	-	8.09	-
Saturation pH (at 20 C)	none	n/v	n/v	-	-	7.15	-	7.23	-	7.27	-	7.32	-	7.32	-	7.34	-	7.29	-
Saturation pH (at 4 C)	none	n/v	n/v	-	-	7.40	-	7.48	-	7.52	-	7.57	-	7.57	-	7.59	-	7.53	-
Sulfate	mg/L	500_h[D]	n/v	-	-	78	-	110	-	99	-	98	-	91	-	92	-	82	-
Total Dissolved Solids	mg/L	500[D]	n/v	-	-	-	-	442	-	436	-	410	-	400	-	398	-	375	-
Total Dissolved Solids (Calculated)	mg/L	500[D]	n/v	-	-	430	-	430	-	410	-	390	-	380	-	380	-	390	-
Total Organic Carbon	mg/L	n/v	n/v	-	-	-	-	2.0	-	0.87	-	1.8	-	1.2	-	0.67	-	0.81	-
Total Suspended Solids	mg/L	n/v	n/v	87	-	<10	-	<10	-	<10	-	10	-	91	-	<10	-	<10	-
Turbidity, Lab	NTU	5_j[D,E]	n/v	**82[D]**	-	1.9	-	3.4	-	2.6	-	**7.4[D]**	-	**6.0[D]**	-	0.5	-	0.6	-
BTEX and Petroleum Hydrocarbons																			
Benzene	µg/L	1[C]	0.5[G] 5[H]	<0.20	-	<0.20	-	<0.2	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-
Toluene	µg/L	24[D]	24[G] 22[H]	<0.20	-	<0.20	-	<0.2	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-
Ethylbenzene	µg/L	2.4[D]	2.4[G] 2.4[H]	<0.20	-	<0.20	-	<0.2	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-
Xylene, m & p-	µg/L	300_{s1}[D]	[GH]	<0.20	-	<0.20	-	<0.2	-	<0.40	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-
Xylene, o-	µg/L	300_{s1}[D]	[GH]	<0.20	-	<0.20	-	<0.2	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-
Xylenes, Total	µg/L	300[D]	72_{s1}[G] 300_{s1}[H]	<0.20	-	<0.20	-	<0.2	-	<0.40	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-
PHC F1 (C6-C10 range)	µg/L	n/v	[GH]	-	-	-	-	<25	-	<25	-	<25	-	<25	-	<25	-	<25	-
PHC F1 (C6-C10 range) minus BTEX	µg/L	n/v	420_{s7}[GH]	-	-	-	-	<25	-	<25	-	<25	-	<25	-	<25	-	<25	-
PHC F2 (>C10-C16 range)	µg/L	n/v	150_{s15}[GH]	-	-	-	-	<100	-	<100	-	<100	-	<100	-	<100	-	<100	-
PHC F3 (>C16-C34 range)	µg/L	n/v	500_{s8}[GH]	-	-	-	-	<200	-	<200	-	<200	-	<200	-	<200	-	<200	-
PHC F4 (>C34-C50 range)	µg/L	n/v	500_{s10}[GH]	-	-	-	-	<200	-	<200	-	<200	-	<200	-	<200	-	<200	-
Chromatogram to baseline at C50	none	n/v	n/v	-	-	-	-	YES	-	YES	-	YES	-	YES	-	YES	-	YES	-

See notes on last page

Table 7
Summary of Groundwater Analytical Results - Monitoring Wells
Clarington Transformer Station
Hydro One Networks Inc.

Sample Location				MW3-13-S (Contd.)															
Sample Date				20-Nov-14	20-Nov-14	27-Nov-14	27-Nov-14	8-Apr-15	8-Apr-15	5-Oct-15	5-Oct-15	14-Apr-16	14-Apr-16	3-Nov-16	3-Nov-16	25-Apr-17	25-Apr-17	16-Oct-17	16-Oct-17
Sample ID				WG-160900764-20141120-CD01	WG-160900764-20141120-CD01A	WG-160900764-20141127-RD09	WG-160900764-20141127-RD09A	WG-160900764-20150408-RD03	WG-160900764-20150408-RD03A	WG-160900764-20151005-RD01	WG-160900764-20151005-RD01A	WG-160900764-20160414-AM13	WG-160900764-20160414-AM13A	WG-160900764-20161103-AM16	WG-160900764-20161103-AM16A	WG-160900764-20170425-KR-08	WG-160900764-20170425-KR-08A	WG-160900764-20171016-RD04	WG-160900764-20171016-RD04A
Sampling Company				STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC
Laboratory				MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX
Laboratory Work Order				B4M0745	B4M0745	B4M5208	B4M5208	B561683	B561683	B5K2885	B5K2885	B674631	B674631	B6N9173	B6N9173	B783695	B783695	B7M9492	B7M9492
Laboratory Sample ID				YO3440	YO3441	YQ4966	YQ4967	ABP943	ABP944	BCN647	BCN648	CER539	CER540	DJP834	DJP835	EGX372	EGX377	FIQ046	FIQ047
Filtered				Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC
Sample Type	Units	ODWS	Ontario SCS																
Metals																			
Aluminum	µg/L	100[E]	n/v	-	-	<5.0	5.4	<5	-	<5.0	-	<5	-	<5	-	<5.0	-	<5	-
Antimony	µg/L	6[B]	6[G] 6[H]	-	-	<0.50	<0.50	<0.5	-	<0.5	-	<0.5	-	<0.5	-	<0.50	-	<0.5	-
Arsenic	µg/L	25[B]	25[G] 25[H]	-	-	<1.0	<1.0	<1	-	<1	-	<1	-	<1	-	<1.0	-	<1	-
Barium	µg/L	1,000[C]	1,000[G] 1,000[H]	-	-	74	89	54	-	57	-	49	-	52	-	49	-	53	-
Beryllium	µg/L	n/v	4[G] 4[H]	-	-	<0.50	<0.50	<0.5	-	<0.5	-	<0.5	-	<0.5	-	<0.50	-	<0.5	-
Boron	µg/L	5,000[B]	5,000[G] 5,000[H]	-	-	39	42	60	-	69	-	83	-	86	-	82	-	83	-
Cadmium	µg/L	5[C]	2.1[G] 2.1[H]	-	-	<0.10	<0.10	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.10	-	<0.1	-
Calcium	µg/L	n/v	n/v	-	-	77,000	78,000	72,000	-	67,000	-	58,000	-	58,000	-	55,000	-	61,000	-
Chromium	µg/L	50[C]	50[G] 50[H]	-	-	<5.0	<5.0	<5	-	<5.0	-	<5	-	<5	-	<5.0	-	<5	-
Chromium (Hexavalent)	µg/L	n/v	25[G] 25[H]	-	-	-	-	<0.5	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-
Cobalt	µg/L	n/v	3.8[G] 3.8[H]	-	-	<0.50	<0.50	<0.5	-	<0.5	-	<0.5	-	<0.5	-	<0.50	-	<0.5	-
Copper	µg/L	1,000[D]	69[G] 69[H]	-	-	1.8	<1.0	<1	-	<1	-	<1	-	<1	-	<1.0	-	<1	-
Iron	µg/L	300[D]	n/v	-	-	<100	<100	<100	-	<100	-	<100	-	<100	-	<100	-	<100	-
Lead	µg/L	10$_c$[C]	10[G] 10[H]	-	-	<0.50	<0.50	<0.5	-	<0.5	-	<0.5	-	<0.5	-	<0.50	-	<0.5	-
Magnesium	µg/L	n/v	n/v	-	-	40,000	41,000	41,000	-	39,000	-	36,000	-	36,000	-	37,000	-	37,000	-
Manganese	µg/L	50[D]	n/v	-	-	6.3	5.8	11	-	15	-	4.3	-	3.1	-	2.2	-	10	-
Mercury	µg/L	1[C]	0.1[G] 0.29[H]	-	-	-	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-
Molybdenum	µg/L	n/v	70[G] 70[H]	-	-	3.7	4.1	7.6	-	8.9	-	9.6	-	8.5	-	7.5	-	6.9	-
Nickel	µg/L	n/v	100[G] 100[H]	-	-	1.9	<1.0	<1	-	<1	-	<1	-	<1	-	<1.0	-	<1	-
Phosphorus	µg/L	n/v	n/v	-	-	<100	<100	<100	-	<100	-	<100	-	<100	-	<100	-	<100	-
Potassium	µg/L	n/v	n/v	-	-	4,700	4,900	5,700	-	5,700	-	5,400	-	5,400	-	5,100	-	5,300	-
Selenium	µg/L	10[C]	10[G] 10[H]	-	-	<2.0	<2.0	<2	-	<2	-	<2	-	<2	-	<2.0	-	<2	-
Silicon	µg/L	n/v	n/v	-	-	7,800	8,000	6,000	-	6,000	-	5,400	-	6,100	-	5,400	-	6,400	-
Silver	µg/L	n/v	1.2[G] 1.2[H]	-	-	<0.10	<0.10	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.10	-	<0.1	-
Sodium	µg/L	200,000$_g$[D] 20,000$_g$[F]	490,000[G] 490,000[H]	-	-	16,000	15,000	18,000	-	**22,000[F]**	-	**23,000[F]**	-	**23,000[F]**	-	**23,000[F]**	-	**22,000[F]**	-
Strontium	µg/L	n/v	n/v	-	-	620	650	780	-	740	-	780	-	780	-	800	-	810	-
Thallium	µg/L	n/v	2[G] 2[H]	-	-	<0.050	<0.050	<0.05	-	<0.05	-	<0.05	-	<0.05	-	<0.050	-	<0.05	-
Titanium	µg/L	n/v	n/v	-	-	<5.0	<5.0	<5	-	<5.0	-	<5	-	<5	-	<5.0	-	<5	-
Uranium	µg/L	20[C]	20[G] 20[H]	-	-	3.6	3.8	4	-	3.7	-	3.5	-	3.5	-	3.3	-	3.2	-
Vanadium	µg/L	n/v	6.2[G] 6.2[H]	-	-	0.60	0.62	0.52	-	0.67	-	0.85	-	0.8	-	0.64	-	0.69	-
Zinc	µg/L	5,000[D]	890[G] 890[H]	-	-	7.5	<5.0	<5	-	<5.0	-	<5	-	<5	-	<5.0	-	<5	-
Zirconium	µg/L	n/v	n/v	-	-	<1.0	<1.0	<1	-	<1	-	<1	-	<1	-	<1.0	-	<1	-
Polychlorinated Biphenyls																			
Aroclor 1242	µg/L	n/v	$_{s14}$[GH]	-	-	-	-	<0.05	-	<0.05	-	<0.05	-	<0.05	-	<0.05	-	<0.05	-
Aroclor 1248	µg/L	n/v	$_{s14}$[GH]	-	-	-	-	<0.05	-	<0.05	-	<0.05	-	<0.05	-	<0.05	-	<0.05	-
Aroclor 1254	µg/L	n/v	$_{s14}$[GH]	-	-	-	-	<0.05	-	<0.05	-	<0.05	-	<0.05	-	<0.05	-	<0.05	-
Aroclor 1260	µg/L	n/v	$_{s14}$[GH]	-	-	-	-	<0.05	-	<0.05	-	<0.05	-	<0.05	-	<0.05	-	<0.05	-
Polychlorinated Biphenyls (PCBs)	µg/L	3[B]	0.2$_{s14}$[GH]	-	-	-	-	<0.05	-	<0.05	-	<0.05	-	<0.05	-	<0.05	-	<0.05	-

See notes on last page

Table 7
Summary of Groundwater Analytical Results - Monitoring Wells
Clarington Transformer Station
Hydro One Networks Inc.

Sample Location				MW3-13-S (Contd.)															
Sample Date				20-Nov-14	20-Nov-14	27-Nov-14	27-Nov-14	8-Apr-15	8-Apr-15	5-Oct-15	5-Oct-15	14-Apr-16	14-Apr-16	3-Nov-16	3-Nov-16	25-Apr-17	25-Apr-17	16-Oct-17	16-Oct-17
Sample ID				WG-160900764-20141120-CD01	WG-160900764-20141120-CD01A	WG-160900764-20141127-RD09	WG-160900764-20141127-RD09A	WG-160900764-20150408-RD03	WG-160900764-20150408-RD03A	WG-160900764-20151005-RD01	WG-160900764-20151005-RD01A	WG-160900764-20160414-AM13	WG-160900764-20160414-AM13A	WG-160900764-20161103-AM16	WG-160900764-20161103-AM16A	WG-160900764-20170425-KR-08	WG-160900764-20170425-KR-08A	WG-160900764-20171016-RD04	WG-160900764-20171016-RD04A
Sampling Company				STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC
Laboratory				MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX
Laboratory Work Order				B4M0745	B4M0745	B4M5208	B4M5208	B561683	B561683	B5K2885	B5K2885	B674631	B674631	B6N9173	B6N9173	B783695	B783695	B7M9492	B7M9492
Laboratory Sample ID				YO3440	YO3441	YQ4966	YQ4967	ABP943	ABP944	BCN647	BCN648	CER539	CER540	DJP834	DJP835	EGX372	EGX377	FIQ046	FIQ047
Filtered				Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC
Sample Type	Units	ODWS	Ontario SCS																
Semi-Volatile Organic Compounds																			
Phthalates																			
Bis(2-Ethylhexyl)phthalate (DEHP)	µg/L	n/v	10[G] 10[H]	2	<1	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Diethyl Phthalate	µg/L	n/v	30[G] 30[H]	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dimethyl Phthalate	µg/L	n/v	30[G] 30[H]	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Polycyclic Aromatic Hydrocarbons																			
Acenaphthene	µg/L	n/v	4.1[G] 4.1[H]	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Acenaphthylene	µg/L	n/v	1[G] 1[H]	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Anthracene	µg/L	n/v	1[G] 1[H]	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(a)anthracene	µg/L	n/v	1[G] 1[H]	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(a)pyrene	µg/L	0.01[C]	0.01[G] 0.01[H]	**0.02[CGH]**	<0.01	**0.02[CGH]**	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Benzo(b/j)fluoranthene	µg/L	n/v	0.1_{s2}[GH]	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(g,h,i)perylene	µg/L	n/v	0.2[G] 0.2[H]	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(k)fluoranthene	µg/L	n/v	0.1[G] 0.1[H]	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Chrysene	µg/L	n/v	0.1[G] 0.1[H]	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Dibenzo(a,h)anthracene	µg/L	n/v	0.2[G] 0.2[H]	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	µg/L	n/v	0.41[G] 0.41[H]	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Fluorene	µg/L	n/v	120[G] 120[H]	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Indeno(1,2,3-cd)pyrene	µg/L	n/v	0.2[G] 0.2[H]	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Methylnaphthalene (Total)	µg/L	n/v	3.2_{s3}[GH]	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28
Methylnaphthalene, 1-	µg/L	n/v	$_{s3}$[GH]	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Methylnaphthalene, 2-	µg/L	n/v	$_{s3}$[GH]	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Naphthalene	µg/L	n/v	7[G] 11[H]	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Phenanthrene	µg/L	n/v	1[G] 1[H]	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Pyrene	µg/L	n/v	4.1[G] 4.1[H]	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Remaining Semi-Volatile Organic Compounds																			
Biphenyl, 1,1'- (Biphenyl)	µg/L	n/v	0.5[G] 0.5[H]	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Bis(2-Chloroethyl)ether	µg/L	n/v	5[G] 5[H]	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Bis(2-Chloroisopropyl)ether	µg/L	n/v	120[G] 120[H]	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Chloroaniline, 4-	µg/L	n/v	10[G] 10[H]	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chlorophenol, 2- (ortho-Chlorophenol)	µg/L	n/v	8.9[G] 8.9[H]	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dichlorobenzidine, 3,3'-	µg/L	n/v	0.5[G] 0.5[H]	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Dichlorophenol, 2,4-	µg/L	900[C] 0.3_t[D]	20[G] 20[H]	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dimethylphenol, 2,4-	µg/L	n/v	59[G] 59[H]	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Dinitrophenol, 2,4-	µg/L	n/v	10[G] 10[H]	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Dinitrotoluene, 2,4-	µg/L	n/v	5_{s13}[GH]	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Dinitrotoluene, 2,6-	µg/L	n/v	5_{s13}[GH]	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Pentachlorophenol	µg/L	60[C] 30_t[D]	30[G] 30[H]	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Phenol	µg/L	n/v	890[G] 890[H]	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Trichlorobenzene, 1,2,4-	µg/L	n/v	3[G] 70[H]	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Trichlorophenol, 2,4,5-	µg/L	n/v	8.9[G] 8.9[H]	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Trichlorophenol, 2,4,6-	µg/L	5[C] 2_t[D]	2[G] 2[H]	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2

See notes on last page

Table 7
Summary of Groundwater Analytical Results - Monitoring Wells
Clarington Transformer Station
Hydro One Networks Inc.

Sample Location				MW3-13-S (Contd.)															
Sample Date				20-Nov-14	20-Nov-14	27-Nov-14	27-Nov-14	8-Apr-15	8-Apr-15	5-Oct-15	5-Oct-15	14-Apr-16	14-Apr-16	3-Nov-16	3-Nov-16	25-Apr-17	25-Apr-17	16-Oct-17	16-Oct-17
Sample ID				WG-160900764-20141120-CD01	WG-160900764-20141120-CD01A	WG-160900764-20141127-RD09	WG-160900764-20141127-RD09A	WG-160900764-20150408-RD03	WG-160900764-20150408-RD03A	WG-160900764-20151005-RD01	WG-160900764-20151005-RD01A	WG-160900764-20160414-AM13	WG-160900764-20160414-AM13A	WG-160900764-20161103-AM16	WG-160900764-20161103-AM16A	WG-160900764-20170425-KR-08	WG-160900764-20170425-KR-08A	WG-160900764-20171016-RD04	WG-160900764-20171016-RD04A
Sampling Company				STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC
Laboratory				MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX
Laboratory Work Order				B4M0745	B4M0745	B4M5208	B4M5208	B561683	B561683	B5K2885	B5K2885	B674631	B674631	B6N9173	B6N9173	B783695	B783695	B7M9492	B7M9492
Laboratory Sample ID				YO3440	YO3441	YQ4966	YQ4967	ABP943	ABP944	BCN647	BCN648	CER539	CER540	DJP834	DJP835	EGX372	EGX377	FIQ046	FIQ047
Filtered				Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC
Sample Type	Units	ODWS	Ontario SCS																
Volatile Organic Compounds																			
Acetone	µg/L	n/v	2,700[G] 2,700[H]	<10	-	<10	-	<10	-	<10	-	<10	-	<10	-	<10	-	<10	-
Bromodichloromethane	µg/L	n/v	16[G] 16[H]	<0.50	-	<0.50	-	<0.5	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-
Bromoform (Tribromomethane)	µg/L	n/v	5[G] 25[H]	<1.0	-	<1.0	-	<1	-	<1.0	-	<1.0	-	<1.0	-	<1.0	-	<1.0	-
Bromomethane (Methyl bromide)	µg/L	n/v	0.89[G] 0.89[H]	<0.50	-	<0.50	-	<0.5	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-
Carbon Tetrachloride (Tetrachloromethane)	µg/L	2[C]	0.2[G] 0.79[H]	<0.20	-	<0.20	-	<0.2	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-
Chlorobenzene (Monochlorobenzene)	µg/L	80[C] 30[D]	30[G] 30[H]	<0.20	-	<0.20	-	<0.2	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-
Chloroform (Trichloromethane)	µg/L	n/v	2[G] 2.4[H]	<0.20	-	<0.20	-	<0.2	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-
Dibromochloromethane	µg/L	n/v	25[G] 25[H]	<0.50	-	<0.50	-	<0.5	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-
Dichlorobenzene, 1,2-	µg/L	200[C] 3[D]	3[G] 3[H]	<0.50	-	<0.50	-	<0.5	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-
Dichlorobenzene, 1,3-	µg/L	n/v	59[G] 59[H]	<0.50	-	<0.50	-	<0.5	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-
Dichlorobenzene, 1,4-	µg/L	5[C] 1[D]	0.5[G] 1[H]	<0.50	-	<0.50	-	<0.5	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-
Dichlorodifluoromethane (Freon 12)	µg/L	n/v	590[G] 590[H]	<1.0	-	<1.0	-	<1	-	<1.0	-	<1.0	-	<1.0	-	<1.0	-	<1.0	-
Dichloroethane, 1,1-	µg/L	n/v	5[G] 5[H]	<0.20	-	<0.20	-	<0.2	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-
Dichloroethane, 1,2-	µg/L	5[B]	0.5[G] 1.6[H]	<0.50	-	<0.50	-	<0.5	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-
Dichloroethene, 1,1-	µg/L	14[C]	0.5[G] 1.6[H]	<0.20	-	<0.20	-	<0.2	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-
Dichloroethene, cis-1,2-	µg/L	n/v	1.6[G] 1.6[H]	<0.50	-	<0.50	-	<0.5	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-
Dichloroethene, trans-1,2-	µg/L	n/v	1.6[G] 1.6[H]	<0.50	-	<0.50	-	<0.5	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-
Dichloropropane, 1,2-	µg/L	n/v	0.58[G] 5[H]	<0.20	-	<0.20	-	<0.2	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-
Dichloropropene, 1,3- (sum of isomers cis + trans)	µg/L	n/v	0.5[511][GH]	<0.50	-	<0.50	-	<0.5	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-
Dichloropropene, cis-1,3-	µg/L	n/v	[511][GH]	<0.30	-	<0.30	-	<0.3	-	<0.30	-	<0.30	-	<0.30	-	<0.30	-	<0.30	-
Dichloropropene, trans-1,3-	µg/L	n/v	[511][GH]	<0.40	-	<0.40	-	<0.4	-	<0.40	-	<0.40	-	<0.40	-	<0.40	-	<0.40	-
Ethylene Dibromide (Dibromoethane, 1,2-)	µg/L	n/v	0.2[G] 0.2[H]	<0.20	-	<0.20	-	<0.2	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-
Hexane (n-Hexane)	µg/L	n/v	5[G] 51[H]	<1.0	-	<1.0	-	<1	-	<1.0	-	<1.0	-	<1.0	-	<1.0	-	<1.0	-
Methyl Ethyl Ketone (MEK) (2-Butanone)	µg/L	n/v	1,800[G] 1,800[H]	<10	-	<10	-	<10	-	<10	-	<10	-	<10	-	<10	-	<10	-
Methyl Isobutyl Ketone (MIBK)	µg/L	n/v	640[G] 640[H]	<5.0	-	<5.0	-	<5	-	<5.0	-	<5.0	-	<5.0	-	<5.0	-	<5.0	-
Methyl tert-butyl ether (MTBE)	µg/L	n/v	15[G] 15[H]	<0.50	-	<0.50	-	<0.5	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-
Methylene Chloride (Dichloromethane)	µg/L	50[C]	26[G] 50[H]	<2.0	-	<2.0	-	<2	-	<2.0	-	<2.0	-	<2.0	-	<2.0	-	<2.0	-
Styrene	µg/L	n/v	5.4[G] 5.4[H]	<0.50	-	<0.50	-	<0.5	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-
Tetrachloroethane, 1,1,1,2-	µg/L	n/v	1.1[G] 1.1[H]	<0.50	-	<0.50	-	<0.5	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-
Tetrachloroethane, 1,1,2,2-	µg/L	n/v	0.5[G] 1[H]	<0.50	-	<0.50	-	<0.5	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-
Tetrachloroethene (PCE)	µg/L	30[C]	0.5[G] 1.6[H]	<0.20	-	<0.20	-	<0.2	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-
Trichloroethane, 1,1,1-	µg/L	n/v	23[G] 200[H]	<0.20	-	<0.20	-	<0.2	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-
Trichloroethane, 1,1,2-	µg/L	n/v	0.5[G] 4.7[H]	<0.50	-	<0.50	-	<0.5	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-
Trichloroethene (TCE)	µg/L	5[C]	0.5[G] 1.6[H]	<0.20	-	<0.20	-	<0.2	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-
Trichlorofluoromethane (Freon 11)	µg/L	n/v	150[G] 150[H]	<0.50	-	<0.50	-	<0.5	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-
Trihalomethanes	µg/L	100[e][C]	n/v	-	-	-	-	-	-	<0.20	-	-	-	-	-	-	-	<1.0	-
Vinyl Chloride	µg/L	1[C]	0.5[G] 0.5[H]	<0.20	-	<0.20	-	<0.2	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-

See notes on last page

Table 7
Summary of Groundwater Analytical Results - Monitoring Wells
Clarington Transformer Station
Hydro One Networks Inc.

Sample Location				MW4-13-D										MW4-13-S						
Sample Date				19-Mar-14	8-May-14	1-Oct-14	22-Dec-14	22-Dec-14	22-Dec-14	31-Oct-16	31-Oct-16	16-Oct-17	16-Oct-17	13-Dec-13	7-May-14	7-May-14	15-Aug-14	15-Aug-14	1-Oct-14	1-Oct-14
Sample ID				MW4-13-D	MW4-13-D	WG-160900764-20141001-JK5	WG-160900764-20141222-MF01	WG-160900764-20141222-MF01A	WG-160900764-20141222-MF01A	WG-160900764-20161031-AM01	WG-160900764-20161031-AM01A	WG-160900764-20171016-RD03	WG-160900764-20171016-RD03A	CLARS1213TWG-160960745-20131213-JK7	MW4-13-S	MW4-13-SDUP	MW4-13-S	MW4-13-S DUP	WG-160900764-20141001-JK6	WG-160900764-20141001-JK7
Sampling Company				STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC
Laboratory				MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX
Laboratory Work Order				B443695	B476124	B4I4645	B4O2426	B4O2426	B4O2426	B6N7980	B6N7980	B7M9492	B7M9492	B3L6734	B475182	B475182	B4E7727	B4E7727	B4I4645	B4I4645
Laboratory Sample ID				VG2317	VV5729	XV9681	YY7641	YY7641	YY7642	DJK300	DJK301	FIQ044	FIQ045	UH4007	VV0855	VV0856	XD5199	XD5200	XV9679	XV9680
Filtered				Lab Filtered SVOC	Lab Filtered SVOC	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC	Lab Filtered SVOC	Lab Filtered SVOC	Lab Filtered SVOC	Lab Filtered SVOC	Lab Filtered SVOC	Lab Filtered SVOC	Lab Filtered SVOC
Sample Type	Units	ODWS	Ontario SCS													Field Duplicate		Field Duplicate		Field Duplicate
General Chemistry																				
Acidity	mg/L	n/v	n/v	<10	<10	<20	-	-	-	<10	-	<5.0	-	-	75	86	11	131	135	146
Alkalinity, Bicarbonate (as CaCO3)	mg/L	n/v	n/v	120	110	130	150	-	-	130	-	130	-	240	230	230	340	320	350	350
Alkalinity, Carbonate (as CaCO3)	mg/L	n/v	n/v	1.2	1.1	1.1	1.9	-	-	1.4	-	1.8	-	1.1	1.8	2.0	1.7	2.2	1.7	1.7
Alkalinity, Total (as CaCO3)	mg/L	30-500[E]	n/v	130	110	130	150	-	-	130	-	130	-	240	230	240	340	320	350	350
Ammonia (as N)	mg/L	n/v	n/v	0.59	0.42	0.25	-	-	-	<0.050	-	0.12	-	0.18	0.11	0.17	0.062	<0.050	0.070	0.095
Anion Sum	meq/L	n/v	n/v	5.67	5.63	7.97	9.52	-	-	8.63	-	7.89	-	5.85	5.39	5.57	7.22	6.97	7.45	7.48
Cation Sum	meq/L	n/v	n/v	5.09	5.84	7.92	9.84	-	-	8.24	-	7.30	-	5.94	42.8	43.6	7.80	6.66	7.95	7.67
Chloride	mg/L	250[D]	790[G] 790[H]	23	23	19	16	-	-	9.7	-	8.0	-	8	6	6	3	4	4	4
Cyanide (Free)	µg/L	200[C]	52[G] 52[H]	<2	<2	<2	-	-	-	<1	-	<1	-	-	<2	<2	<2	<2	<2	<2
Dissolved Organic Carbon (DOC)	mg/L	5[D]	n/v	2.7	2.4	2.5	-	-	-	0.88	-	0.86	-	1.6	1.9	2.0	1.9	1.9	2.2	2.2
Electrical Conductivity, Lab	µmhos/cm	n/v	n/a[GH]	540	580	790	920	-	-	840	-	710	-	560	500	500	650	610	670	680
Fluoride	mg/L	1.5$_b$[C]	n/v	0.75	0.70	0.56	-	-	-	0.63	-	0.64	-	-	0.14	0.14	0.11	0.15	0.10	0.11
Hardness (as CaCO3)	mg/L	80-100[E]	n/v	**120[E]**	**130[E]**	**200[E]**	**280[E]**	-	-	**180[E]**	-	**130[E]**	-	**280[E]**	**2,000[E]**	**2,100[E]**	**380[E]**	**320[E]**	**390[E]**	**370[E]**
Ion Balance	%	n/v	n/v	5.39	1.78	0.320	1.66	-	-	2.33	-	3.89	-	0.760	77.6	77.3	3.85	2.24	3.25	1.27
Langelier Index (at 20 C)	none	n/v	n/v	0.134	0.160	0.274	0.643	-	-	0.281	-	0.209	-	0.601	1.74	1.80	0.916	0.918	0.919	0.921
Langelier Index (at 4 C)	none	n/v	n/v	-0.115	-0.0890	0.0260	0.396	-	-	0.0340	-	-0.0390	-	0.352	1.49	1.55	0.667	0.670	0.671	0.673
Nitrate (as N)	mg/L	10.0$_d$[C]	n/v	<0.10	0.28	0.34	<0.10	-	-	0.10	-	0.22	-	4.81	3.84	3.84	0.29	0.27	0.31	0.31
Nitrate + Nitrite (as N)	mg/L	10.0$_d$[C]	n/v	<0.10	0.29	0.34	<0.10	-	-	0.10	-	0.22	-	4.94	3.86	3.86	0.30	0.29	0.31	0.31
Nitrite (as N)	mg/L	1.0$_d$[C]	n/v	<0.010	0.017	<0.010	0.011	-	-	<0.010	-	<0.010	-	0.123	0.018	0.019	0.010	0.018	<0.010	<0.010
Orthophosphate(as P)	mg/L	n/v	n/v	<0.010	<0.010	<0.010	<0.010	-	-	<0.010	-	<0.010	-	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
pH	S.U.	6.5-8.5[E]	n/v	8.00	8.02	7.96	8.12	-	-	8.05	-	8.17	-	7.69	7.94	7.95	7.73	7.86	7.70	7.72
Saturation pH (at 20 C)	none	n/v	n/v	7.87	7.86	7.68	7.47	-	-	7.77	-	7.96	-	7.09	6.20	6.15	6.81	6.94	6.78	6.80
Saturation pH (at 4 C)	none	n/v	n/v	8.12	8.11	7.93	7.72	-	-	8.02	-	8.21	-	7.34	6.45	6.40	7.06	7.19	7.03	7.05
Sulfate	mg/L	500$_h$[D]	n/v	120	130	230	290	-	-	270	-	240	-	26	17	18	16	19	13	14
Total Dissolved Solids	mg/L	500[D]	n/v	370	346	**616[D]**	-	-	-	**568[D]**	-	475	-	-	368	286	416	440	472	460
Total Dissolved Solids (Calculated)	mg/L	500[D]	n/v	-	-	-	**600[D]**	-	-	**540[D]**	-	490	-	-	-	-	-	-	-	-
Total Organic Carbon	mg/L	n/v	n/v	7.1	10	34	-	-	-	1.3	-	2.3	-	-	4.5	6.3	6.1	8.6	3.1	3.1
Total Suspended Solids	mg/L	n/v	n/v	29,000	7,100	26,000	870	-	-	28	-	110	-	-	4,300	5,900	680	1,600	430	430
Turbidity, Lab	NTU	5$_i$[D,E]	n/v	**220[D]**	**1,900[D]**	**34,000[D]**	**840[D]**	-	-	**14[D]**	-	**41[D]**	-	-	**770[D]**	**670[D]**	**440[D]**	**580[D]**	**68[D]**	**90[D]**
BTEX and Petroleum Hydrocarbons																				
Benzene	µg/L	1[C]	0.5[G] 5[H]	0.22	<0.20	<0.20	-	-	-	<0.20	-	<0.20	-	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Toluene	µg/L	24[D]	24[G] 22[H]	0.45	<0.20	<0.20	-	-	-	<0.20	-	<0.20	-	0.85	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Ethylbenzene	µg/L	2.4[D]	2.4[G] 2.4[H]	0.26	<0.20	0.20	-	-	-	<0.20	-	<0.20	-	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Xylene, m & p-	µg/L	300$_{s1}$[D]	$_{s1}$[GH]	0.70	<0.20	0.68	-	-	-	<0.20	-	<0.20	-	0.77	<0.20	<0.20	<0.20	<0.20	<0.40	<0.40
Xylene, o-	µg/L	300$_{s1}$[D]	$_{s1}$[GH]	0.31	<0.20	0.27	-	-	-	<0.20	-	<0.20	-	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Xylenes, Total	µg/L	300[D]	72$_{s1}$[G] 300$_{s1}$[H]	1.0	<0.20	0.95	-	-	-	<0.20	-	<0.20	-	0.77	<0.20	<0.20	<0.20	<0.20	<0.40	<0.40
PHC F1 (C6-C10 range)	µg/L	n/v	$_{s7}$[GH]	<25	<25	<25	-	-	-	<25	-	<25	-	<25	<25	<25	<25	<25	<25	<25
PHC F1 (C6-C10 range) minus BTEX	µg/L	n/v	420$_{s7}$[GH]	<25	<25	<25	-	-	-	<25	-	<25	-	<25	<25	<25	<25	<25	<25	<25
PHC F2 (>C10-C16 range)	µg/L	n/v	150$_{s15}$[GH]	<100	<100	<100	-	-	-	<100	-	<100	-	<100	<100	<100	<100	<100	<100	<100
PHC F3 (>C16-C34 range)	µg/L	n/v	500$_{s8}$[GH]	<200	<200	<200	-	-	-	<200	-	<200	-	<200	<200	<200	<200	<200	<200	<200
PHC F4 (>C34-C50 range)	µg/L	n/v	500$_{s10}$[GH]	<200	<200	<200	-	-	-	<200	-	<200	-	<200	<200	<200	<200	<200	<200	<200
Chromatogram to baseline at C50	none	n/v	n/v	YES	YES	YES	-	-	-	YES	-	YES	-	YES	YES	YES	YES	YES	YES	YES

See notes on last page

Table 7
Summary of Groundwater Analytical Results - Monitoring Wells
Clarington Transformer Station
Hydro One Networks Inc.

Sample Location				MW4-13-D										MW4-13-S						
Sample Date				19-Mar-14	8-May-14	1-Oct-14	22-Dec-14	22-Dec-14	22-Dec-14	31-Oct-16	31-Oct-16	16-Oct-17	16-Oct-17	13-Dec-13	7-May-14	7-May-14	15-Aug-14	15-Aug-14	1-Oct-14	1-Oct-14
Sample ID				MW4-13-D	MW4-13-D	WG-160900764-20141001-JK5	WG-160900764-20141222-MF01	WG-160900764-20141222-MF01A	WG-160900764-20141222-MF01A	WG-160900764-20161031-AM01	WG-160900764-20161031-AM01A	WG-160900764-20171016-RD03	WG-160900764-20171016-RD03A	CLARS1213TWG-160960745-20131213-JK7	MW4-13-S	MW4-13-SDUP	MW4-13-S	MW4-13-S DUP	WG-160900764-20141001-JK6	WG-160900764-20141001-JK7
Sampling Company				STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC
Laboratory				MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX
Laboratory Work Order				B443695	B476124	B4I4645	B4O2426	B4O2426	B4O2426	B6N7980	B6N7980	B7M9492	B7M9492	B3L6734	B475182	B475182	B4E7727	B4E7727	B4I4645	B4I4645
Laboratory Sample ID				VG2317	VV5729	XV9681	YY7641	YY7641	YY7642	DJK300	DJK301	FIQ044	FIQ045	UH4007	VV0855	VV0856	XD5199	XD5200	XV9679	XV9680
Filtered				Lab Filtered SVOC	Lab Filtered SVOC	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC	Lab Filtered SVOC	Lab Filtered SVOC	Lab Filtered SVOC	Lab Filtered SVOC	Lab Filtered SVOC	Lab Filtered SVOC	Lab Filtered SVOC
Sample Type	Units	ODWS	Ontario SCS													Field Duplicate		Field Duplicate		Field Duplicate
Metals																				
Aluminum	µg/L	100[E]	n/v	13	15	16	-	10	-	<5	-	7.6	-	<5.0	-	-	11	5.0	7.7	<5.0
Antimony	µg/L	6[B]	6[G] 6[H]	<0.50	<0.50	0.93	-	<0.5	-	<0.5	-	<0.5	-	<0.50	-	-	<0.50	<0.50	<0.50	<0.50
Arsenic	µg/L	25[B]	25[G] 25[H]	<1.0	<1.0	<1.0	-	<1	-	<1	-	<1	-	<1.0	-	-	<1.0	<1.0	<1.0	<1.0
Barium	µg/L	1,000[C]	1,000[G] 1,000[H]	61	57	99	-	81	-	26	-	21	-	48	-	-	81	84	68	65
Beryllium	µg/L	n/v	4[G] 4[H]	<0.50	<0.50	<0.50	-	<0.5	-	<0.5	-	<0.5	-	<0.50	-	-	<0.50	<0.50	<0.50	<0.50
Boron	µg/L	5,000[B]	5,000[G] 5,000[H]	330	340	440	-	510	-	320	-	340	-	29	-	-	29	36	22	23
Cadmium	µg/L	5[C]	2.1[G] 2.1[H]	<0.10	<0.10	<0.10	-	<0.1	-	<0.1	-	<0.1	-	<0.10	-	-	<0.10	<0.10	<0.10	<0.10
Calcium	µg/L	n/v	n/v	30,000	34,000	49,000	-	67,000	-	39,000	-	24,000	-	91,000	-	-	130,000	100,000	140,000	130,000
Chromium	µg/L	50[C]	50[G] 50[H]	<5.0	<5.0	<5.0	-	<5	-	<5	-	<5	-	<5.0	-	-	<5.0	<5.0	<5.0	<5.0
Chromium (Hexavalent)	µg/L	n/v	25[G] 25[H]	<0.50	<0.50	-	-	-	-	<0.50	-	<0.50	-	-	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Cobalt	µg/L	n/v	3.8[G] 3.8[H]	<0.50	<0.50	<0.50	-	<0.5	-	<0.5	-	<0.5	-	<0.50	-	-	<0.50	<0.50	<0.50	<0.50
Copper	µg/L	1,000[D]	69[G] 69[H]	<1.0	<1.0	1.1	-	<1	-	<1	-	<1	-	<1.0	-	-	1.1	<1.0	<1.0	<1.0
Iron	µg/L	300[D]	n/v	<100	<100	<100	-	<100	-	<100	-	<100	-	<100	-	-	<100	<100	<100	<100
Lead	µg/L	10_c[C]	10[G] 10[H]	<0.50	<0.50	<0.50	-	<0.5	-	<0.5	-	<0.5	-	<0.50	-	-	<0.50	<0.50	<0.50	<0.50
Magnesium	µg/L	n/v	n/v	11,000	11,000	20,000	-	27,000	-	19,000	-	17,000	-	12,000	-	-	14,000	15,000	12,000	12,000
Manganese	µg/L	50[D]	n/v	14	12	4.2	-	5.3	-	<2	-	<2	-	<2.0	-	-	2.2	<2.0	<2.0	<2.0
Mercury	µg/L	1[C]	0.1[G] 0.29[H]	***<1.5 DB***	<0.10	-	-	-	-	<0.1	-	<0.1	-	-	0.00012	0.00013	<0.10	<0.10	<0.1	<0.1
Molybdenum	µg/L	n/v	70[G] 70[H]	**72[GH]**	**76[GH]**	**83[GH]**	-	**81[GH]**	-	**100[GH]**	-	**110[GH]**	-	1.9	-	-	<0.50	<0.50	<0.50	<0.50
Nickel	µg/L	n/v	100[G] 100[H]	1.2	1.0	1.4	-	<1	-	<1	-	<1	-	<1.0	-	-	<1.0	<1.0	<1.0	<1.0
Phosphorus	µg/L	n/v	n/v	<100	<100	<100	-	<100	-	<100	-	<100	-	<100	-	-	<100	<100	<100	<100
Potassium	µg/L	n/v	n/v	8,300	7,400	8,200	-	7,700	-	4,300	-	4,000	-	1,800	-	-	1,100	1,200	890	870
Selenium	µg/L	10[C]	10[G] 10[H]	<2.0	<2.0	<2.0	-	<2	-	<2	-	<2	-	<2.0	-	-	<2.0	<2.0	<2.0	<2.0
Silicon	µg/L	n/v	n/v	3,300	3,700	3,000	-	3,900	-	3,200	-	3,400	-	4,900	-	-	5,700	6,800	4,700	4,900
Silver	µg/L	n/v	1.2[G] 1.2[H]	<0.10	<0.10	<0.10	-	<0.1	-	<0.1	-	<0.1	-	<0.10	-	-	<0.10	<0.10	<0.10	<0.10
Sodium	µg/L	200,000[D] 20,000[F]	490,000[G] 490,000[H]	**57,000[F]**	**68,000[F]**	**83,000[F]**	-	**94,000[F]**	-	**100,000[F]**	-	**110,000[F]**	-	7,600	-	-	5,100	6,800	3,800	3,900
Strontium	µg/L	n/v	n/v	440	520	870	-	1,200	-	920	-	770	-	310	-	-	420	460	370	370
Thallium	µg/L	n/v	2[G] 2[H]	<0.050	<0.050	<0.050	-	<0.05	-	<0.05	-	<0.05	-	<0.050	-	-	<0.050	<0.050	<0.050	<0.050
Titanium	µg/L	n/v	n/v	<5.0	<5.0	<5.0	-	<5	-	<5	-	<5	-	<5.0	-	-	<5.0	<5.0	<5.0	<5.0
Uranium	µg/L	20[C]	20[G] 20[H]	2.3	1.2	4.2	-	2.6	-	2	-	2	-	1.2	-	-	0.59	0.51	0.65	0.68
Vanadium	µg/L	n/v	6.2[G] 6.2[H]	<0.50	0.55	0.76	-	0.56	-	<0.5	-	<0.5	-	0.55	-	-	<0.50	<0.50	<0.50	<0.50
Zinc	µg/L	5,000[D]	890[G] 890[H]	<5.0	<5.0	<5.0	-	<5	-	<5	-	<5	-	<5.0	-	-	<5.0	<5.0	<5.0	<5.0
Zirconium	µg/L	n/v	n/v	-	<1.0	<1.0	-	<1	-	<1	-	<1	-	<1.0	-	-	-	-	<1.0	<1.0
Polychlorinated Biphenyls																				
Aroclor 1242	µg/L	n/v	$_{s14}$[GH]	<0.05	<0.5	<0.5	-	-	-	<0.05	-	<0.05	-	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Aroclor 1248	µg/L	n/v	$_{s14}$[GH]	<0.05	<0.5	<0.5	-	-	-	<0.05	-	<0.05	-	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Aroclor 1254	µg/L	n/v	$_{s14}$[GH]	<0.05	<0.5	<0.5	-	-	-	<0.05	-	<0.05	-	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Aroclor 1260	µg/L	n/v	$_{s14}$[GH]	<0.05	<0.5	<0.5	-	-	-	<0.05	-	<0.05	-	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Polychlorinated Biphenyls (PCBs)	µg/L	3[B]	0.2_{s14}[GH]	<0.05	***<0.5***	***<0.5***	-	-	-	<0.05	-	<0.05	-	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05

See notes on last page

Table 7
Summary of Groundwater Analytical Results - Monitoring Wells
Clarington Transformer Station
Hydro One Networks Inc.

Sample Location				MW4-13-D										MW4-13-S						
Sample Date				19-Mar-14	8-May-14	1-Oct-14	22-Dec-14	22-Dec-14	22-Dec-14	31-Oct-16	31-Oct-16	16-Oct-17	16-Oct-17	13-Dec-13	7-May-14	7-May-14	15-Aug-14	15-Aug-14	1-Oct-14	1-Oct-14
Sample ID				MW4-13-D	MW4-13-D	WG-160900764-20141001-JK5	WG-160900764-20141222-MF01	WG-160900764-20141222-MF01A	WG-160900764-20141222-MF01A	WG-160900764-20161031-AM01	WG-160900764-20161031-AM01A	WG-160900764-20171016-RD03	WG-160900764-20171016-RD03A	CLARS1213TWG-160960745-20131213-JK7	MW4-13-S	MW4-13-SDUP	MW4-13-S	MW4-13-S DUP	WG-160900764-20141001-JK6	WG-160900764-20141001-JK7
Sampling Company				STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC
Laboratory				MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX
Laboratory Work Order				B443695	B476124	B4I4645	B4O2426	B4O2426	B4O2426	B6N7980	B6N7980	B7M9492	B7M9492	B3L6734	B475182	B475182	B4E7727	B4E7727	B4I4645	B4I4645
Laboratory Sample ID				VG2317	VV5729	XV9681	YY7641	YY7641	YY7642	DJK300	DJK301	FIQ044	FIQ045	UH4007	VV0855	VV0856	XD5199	XD5200	XV9679	XV9680
Filtered				Lab Filtered SVOC	Lab Filtered SVOC	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC	Lab Filtered SVOC	Lab Filtered SVOC	Lab Filtered SVOC	Lab Filtered SVOC	Lab Filtered SVOC	Lab Filtered SVOC	Lab Filtered SVOC
Sample Type	Units	ODWS	Ontario SCS													Field Duplicate		Field Duplicate		Field Duplicate
Semi-Volatile Organic Compounds																				
Phthalates																				
Bis(2-Ethylhexyl)phthalate (DEHP)	µg/L	n/v	10[G] 10[H]	**18[GH]**	**33[GH]**	**36[GH]**	9	-	<1	2	<1	5	<1	-	2	2	<1	<1	1	<1
Diethyl Phthalate	µg/L	n/v	30[G] 30[H]	0.6	0.1	<0.5	<0.1	-	<0.1	0.2	0.3	<0.1	<0.1	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dimethyl Phthalate	µg/L	n/v	30[G] 30[H]	<0.1	<0.1	<0.5	<0.1	-	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Polycyclic Aromatic Hydrocarbons																				
Acenaphthene	µg/L	n/v	4.1[G] 4.1[H]	<0.2	<0.2	<1	<0.2	-	<0.2	<0.2	<0.2	<0.2	<0.2	-	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Acenaphthylene	µg/L	n/v	1[G] 1[H]	<0.2	<0.2	<1	<0.2	-	<0.2	<0.2	<0.2	<0.2	<0.2	-	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Anthracene	µg/L	n/v	1[G] 1[H]	0.10	0.08	<0.3	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(a)anthracene	µg/L	n/v	1[G] 1[H]	0.16	0.17	<0.3	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(a)pyrene	µg/L	0.01[C]	0.01[G] 0.01[H]	**0.06[CGH]**	**0.07[CGH]**	***<0.05***	<0.01	-	<0.01	<0.01	<0.01	<0.01	<0.01	-	**0.02[CGH]**	0.01	<0.01	<0.01	<0.01	<0.01
Benzo(b/j)fluoranthene	µg/L	n/v	0.1[s2][GH]	**0.19[GH]**	**0.18[GH]**	***<0.3***	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(g,h,i)perylene	µg/L	n/v	0.2[G] 0.2[H]	<0.1 MI	<0.1	***<0.3***	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(k)fluoranthene	µg/L	n/v	0.1[G] 0.1[H]	<0.05	<0.05	***<0.3***	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Chrysene	µg/L	n/v	0.1[G] 0.1[H]	**0.22[GH]**	**0.19[GH]**	***<0.3***	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Dibenzo(a,h)anthracene	µg/L	n/v	0.2[G] 0.2[H]	<0.1	<0.1	***<0.5***	<0.1	-	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	µg/L	n/v	0.41[G] 0.41[H]	**1.4[GH]**	**1.4[GH]**	***<1***	<0.2	-	<0.2	<0.2	<0.2	<0.2	<0.2	-	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Fluorene	µg/L	n/v	120[G] 120[H]	<0.2	<0.2	<1	<0.2	-	<0.2	<0.2	<0.2	<0.2	<0.2	-	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Indeno(1,2,3-cd)pyrene	µg/L	n/v	0.2[G] 0.2[H]	<0.1	<0.1	***<0.5***	<0.1	-	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Methylnaphthalene (Total)	µg/L	n/v	3.2[s3][GH]	<0.28	<0.28	<1.4	<0.28	-	<0.28	<0.28	<0.28	<0.28	<0.28	-	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28
Methylnaphthalene, 1-	µg/L	n/v	[s3][GH]	<0.2	<0.2	<1	<0.2	-	<0.2	<0.2	<0.2	<0.2	<0.2	-	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Methylnaphthalene, 2-	µg/L	n/v	[s3][GH]	0.2	0.2	<1	<0.2	-	<0.2	<0.2	<0.2	<0.2	<0.2	-	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Naphthalene	µg/L	n/v	7[G] 11[H]	<0.2	<0.2	<1	<0.2	-	<0.2	<0.2	<0.2	<0.2	<0.2	-	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Phenanthrene	µg/L	n/v	1[G] 1[H]	**1.1[GH]**	**1.2[GH]**	<0.5	<0.1	-	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Pyrene	µg/L	n/v	4.1[G] 4.1[H]	1.8	2.0	1.0	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	-	0.09	0.08	<0.05	<0.05	<0.05	<0.05
Remaining Semi-Volatile Organic Compounds																				
Biphenyl, 1,1'- (Biphenyl)	µg/L	n/v	0.5[G] 0.5[H]	<0.1	<0.1	<0.5	<0.1	-	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Bis(2-Chloroethyl)ether	µg/L	n/v	5[G] 5[H]	<0.5	<0.5	<3	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Bis(2-Chloroisopropyl)ether	µg/L	n/v	120[G] 120[H]	<0.5	<0.5	<3	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Chloroaniline, 4-	µg/L	n/v	10[G] 10[H]	<1	<1	<5	<1	-	<1	<1	<1	<1	<1	-	<1	<1	<1	<1	<1	<1
Chlorophenol, 2- (ortho-Chlorophenol)	µg/L	n/v	8.9[G] 8.9[H]	<0.1	<0.1	<0.5	<0.1	-	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dichlorobenzidine, 3,3'-	µg/L	n/v	0.5[G] 0.5[H]	<0.5	<0.5	***<3***	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Dichlorophenol, 2,4-	µg/L	900[C] 0.3[I][D]	20[G] 20[H]	<0.1	<0.1	***<0.5***	<0.1	-	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dimethylphenol, 2,4-	µg/L	n/v	59[G] 59[H]	<0.5	<0.5	<3	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Dinitrophenol, 2,4-	µg/L	n/v	10[G] 10[H]	<2	<2	<10	<2	-	<2	<2	<2	<2	<2	-	<2	<2	<2	<2	<2	<2
Dinitrotoluene, 2,4-	µg/L	n/v	5[s13][GH]	<0.3	<0.3	<1	<0.3	-	<0.3	<0.3	<0.3	<0.3	<0.3	-	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Dinitrotoluene, 2,6-	µg/L	n/v	5[s13][GH]	<0.3	<0.3	<1	<0.3	-	<0.3	<0.3	<0.3	<0.3	<0.3	-	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Pentachlorophenol	µg/L	60[C] 30[I][D]	30[G] 30[H]	<0.1	<0.1	<0.5	<0.1	-	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Phenol	µg/L	n/v	890[G] 890[H]	<0.5	<0.5	<3	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Trichlorobenzene, 1,2,4-	µg/L	n/v	3[G] 70[H]	<0.1	<0.1	<0.5	<0.1	-	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Trichlorophenol, 2,4,5-	µg/L	n/v	8.9[G] 8.9[H]	<0.2	<0.2	<1	<0.2	-	<0.2	<0.2	<0.2	<0.2	<0.2	-	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Trichlorophenol, 2,4,6-	µg/L	5[C] 2[I][D]	2[G] 2[H]	<0.2	<0.2	<1	<0.2	-	<0.2	<0.2	<0.2	<0.2	<0.2	-	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2

See notes on last page

Table 7
Summary of Groundwater Analytical Results - Monitoring Wells
Clarington Transformer Station
Hydro One Networks Inc.

Sample Location				MW4-13-D										MW4-13-S						
Sample Date				19-Mar-14	8-May-14	1-Oct-14	22-Dec-14	22-Dec-14	22-Dec-14	31-Oct-16	31-Oct-16	16-Oct-17	16-Oct-17	13-Dec-13	7-May-14	7-May-14	15-Aug-14	15-Aug-14	1-Oct-14	1-Oct-14
Sample ID				MW4-13-D	MW4-13-D	WG-160900764-20141001-JK5	WG-160900764-20141222-MF01	WG-160900764-20141222-MF01A	WG-160900764-20141222-MF01A	WG-160900764-20161031-AM01	WG-160900764-20161031-AM01A	WG-160900764-20171016-RD03	WG-160900764-20171016-RD03A	CLARS1213TWG-160960745-20131213-JK7	MW4-13-S	MW4-13-SDUP	MW4-13-S	MW4-13-S DUP	WG-160900764-20141001-JK6	WG-160900764-20141001-JK7
Sampling Company				STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC
Laboratory				MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX
Laboratory Work Order				B443695	B476124	B4I4645	B4O2426	B4O2426	B4O2426	B6N7980	B6N7980	B7M9492	B7M9492	B3L6734	B475182	B475182	B4E7727	B4E7727	B4I4645	B4I4645
Laboratory Sample ID				VG2317	VV5729	XV9681	YY7641	YY7641	YY7642	DJK300	DJK301	FIQ044	FIQ045	UH4007	VV0855	VV0856	XD5199	XD5200	XV9679	XV9680
Filtered				Lab Filtered SVOC	Lab Filtered SVOC	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC	Lab Filtered SVOC	Lab Filtered SVOC	Lab Filtered SVOC	Lab Filtered SVOC	Lab Filtered SVOC	Lab Filtered SVOC	Lab Filtered SVOC
Sample Type	Units	ODWS	Ontario SCS													Field Duplicate		Field Duplicate		Field Duplicate
Volatile Organic Compounds																				
Acetone	µg/L	n/v	2,700[G] 2,700[H]	<10	<10	<10	-	-	-	<10	-	<10	-	-	<10	<10	<10	<10	<10	<10
Bromodichloromethane	µg/L	n/v	16[G] 16[H]	<0.50	<0.50	<0.50	-	-	-	<0.50	-	<0.50	-	-	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Bromoform (Tribromomethane)	µg/L	n/v	5[G] 25[H]	<1.0	<1.0	<1.0	-	-	-	<1.0	-	<1.0	-	-	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromomethane (Methyl bromide)	µg/L	n/v	0.89[G] 0.89[H]	<0.50	<0.50	<0.50	-	-	-	<0.50	-	<0.50	-	-	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Carbon Tetrachloride (Tetrachloromethane)	µg/L	2[C]	0.2[G] 0.79[H]	<0.20	<0.20	<0.20	-	-	-	<0.20	-	<0.20	-	-	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Chlorobenzene (Monochlorobenzene)	µg/L	80[C] 30[D]	30[G] 30[H]	<0.20	<0.20	<0.20	-	-	-	<0.20	-	<0.20	-	-	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Chloroform (Trichloromethane)	µg/L	n/v	2[G] 2.4[H]	<0.20	<0.20	<0.20	-	-	-	<0.20	-	<0.20	-	-	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Dibromochloromethane	µg/L	n/v	25[G] 25[H]	<0.50	<0.50	<0.50	-	-	-	<0.50	-	<0.50	-	-	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Dichlorobenzene, 1,2-	µg/L	200[C] 3[D]	3[G] 3[H]	<0.50	<0.50	<0.50	-	-	-	<0.50	-	<0.50	-	-	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Dichlorobenzene, 1,3-	µg/L	n/v	59[G] 59[H]	<0.50	<0.50	<0.50	-	-	-	<0.50	-	<0.50	-	-	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Dichlorobenzene, 1,4-	µg/L	5[C] 1[D]	0.5[G] 1[H]	<0.50	<0.50	<0.50	-	-	-	<0.50	-	<0.50	-	-	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Dichlorodifluoromethane (Freon 12)	µg/L	n/v	590[G] 590[H]	<1.0	<1.0	<1.0	-	-	-	<1.0	-	<1.0	-	-	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Dichloroethane, 1,1-	µg/L	n/v	5[G] 5[H]	<0.20	<0.20	<0.20	-	-	-	<0.20	-	<0.20	-	-	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Dichloroethane, 1,2-	µg/L	5[B]	0.5[G] 1.6[H]	<0.50	<0.50	<0.50	-	-	-	<0.50	-	<0.50	-	-	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Dichloroethene, 1,1-	µg/L	14[C]	0.5[G] 1.6[H]	<0.20	<0.20	<0.20	-	-	-	<0.20	-	<0.20	-	-	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Dichloroethene, cis-1,2-	µg/L	n/v	1.6[G] 1.6[H]	<0.50	<0.50	<0.50	-	-	-	<0.50	-	<0.50	-	-	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Dichloroethene, trans-1,2-	µg/L	n/v	1.6[G] 1.6[H]	<0.50	<0.50	<0.50	-	-	-	<0.50	-	<0.50	-	-	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Dichloropropane, 1,2-	µg/L	n/v	0.58[G] 5[H]	<0.20	<0.20	<0.20	-	-	-	<0.20	-	<0.20	-	-	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Dichloropropene, 1,3- (sum of isomers cis + trans)	µg/L	n/v	0.5[GH]$_{s11}$	<0.50	<0.50	<0.50	-	-	-	<0.50	-	<0.50	-	-	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Dichloropropene, cis-1,3-	µg/L	n/v	[GH]$_{s11}$	<0.30	<0.30	<0.30	-	-	-	<0.30	-	<0.30	-	-	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
Dichloropropene, trans-1,3-	µg/L	n/v	[GH]$_{s11}$	<0.40	<0.40	<0.40	-	-	-	<0.40	-	<0.40	-	-	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40
Ethylene Dibromide (Dibromoethane, 1,2-)	µg/L	n/v	0.2[G] 0.2[H]	<0.20	<0.20	<0.20	-	-	-	<0.20	-	<0.20	-	-	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Hexane (n-Hexane)	µg/L	n/v	5[G] 51[H]	<1.0	<1.0	<1.0	-	-	-	<1.0	-	<1.0	-	-	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Methyl Ethyl Ketone (MEK) (2-Butanone)	µg/L	n/v	1,800[G] 1,800[H]	<10	<10	<10	-	-	-	<10	-	<10	-	-	<10	<10	<10	<10	<10	<10
Methyl Isobutyl Ketone (MIBK)	µg/L	n/v	640[G] 640[H]	<5.0	<5.0	<5.0	-	-	-	<5.0	-	<5.0	-	-	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Methyl tert-butyl ether (MTBE)	µg/L	n/v	15[G] 15[H]	<0.50	<0.50	<0.50	-	-	-	<0.50	-	<0.50	-	-	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Methylene Chloride (Dichloromethane)	µg/L	50[C]	26[G] 50[H]	<2.0	<2.0	<2.0	-	-	-	<2.0	-	<2.0	-	-	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Styrene	µg/L	n/v	5.4[G] 5.4[H]	<0.50	<0.50	<0.50	-	-	-	<0.50	-	<0.50	-	-	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Tetrachloroethane, 1,1,1,2-	µg/L	n/v	1.1[G] 1.1[H]	<0.50	<0.50	<0.50	-	-	-	<0.50	-	<0.50	-	-	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Tetrachloroethane, 1,1,2,2-	µg/L	n/v	0.5[G] 1[H]	<0.50	<0.50	<0.50	-	-	-	<0.50	-	<0.50	-	-	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Tetrachloroethene (PCE)	µg/L	30[C]	0.5[G] 1.6[H]	<0.20	<0.20	<0.20	-	-	-	<0.20	-	<0.20	-	-	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Trichloroethane, 1,1,1-	µg/L	n/v	23[G] 200[H]	<0.20	<0.20	<0.20	-	-	-	<0.20	-	<0.20	-	-	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Trichloroethane, 1,1,2-	µg/L	n/v	0.5[G] 4.7[H]	<0.50	<0.50	<0.50	-	-	-	<0.50	-	<0.50	-	-	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Trichloroethene (TCE)	µg/L	5[C]	0.5[G] 1.6[H]	<0.20	<0.20	<0.20	-	-	-	<0.20	-	<0.20	-	-	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Trichlorofluoromethane (Freon 11)	µg/L	n/v	150[G] 150[H]	<0.50	<0.50	<0.50	-	-	-	<0.50	-	<0.50	-	-	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Trihalomethanes	µg/L	100[e][C]	n/v	-	-	-	-	-	-	-	-	<1.0	-	-	-	-	-	-	-	-
Vinyl Chloride	µg/L	1[C]	0.5[G] 0.5[H]	<0.20	<0.20	<0.20	-	-	-	<0.20	-	<0.20	-	-	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20

See notes on last page

Table 7
Summary of Groundwater Analytical Results - Monitoring Wells
Clarington Transformer Station
Hydro One Networks Inc.

Sample Location				MW4-13-S (Contd.)															
Sample Date				27-Nov-14	27-Nov-14	27-Nov-14	27-Nov-14	14-May-15	14-May-15	5-Oct-15	5-Oct-15	13-Apr-16	13-Apr-16	31-Oct-16	31-Oct-16	25-Apr-17	25-Apr-17	16-Oct-17	16-Oct-17
Sample ID				WG-160900764-20141127-RD07	WG-160900764-20141127-RD08	WG-160900764-20141127-RD07A	WG-160900764-20141127-RD08A	WG-160900764-20150514-MF01	WG-160900764-20150514-MF01A	WG-160900764-20151005-RD03	WG-160900764-20151005-RD03A	WG-160900764-20160413-AM11	WG-160900764-20160413-AM11A	WG-160900764-20161031-AM02	WG-160900764-20161031-AM02A	WG-160900764-20170425-RD-06	WG-160900764-20170425-RD-06A	WG-160900764-20171016-RD02	WG-160900764-20171016-RD02A
Sampling Company				STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC
Laboratory				MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX
Laboratory Work Order				B4M5208	B4M5208	B4M5208	B4M5208	B590648	B590648	B5K2885	B5K2885	B674114	B674114	B6N7980	B6N7980	B783695	B783695	B7M9492	B7M9492
Laboratory Sample ID				YQ4962	YQ4964	YQ4963	YQ4965	AGX650	AGX651	BCN652	BCN653	CEO890	CEO891	DJK302	DJK303	EGX370	EGX375	FIQ042	FIQ043
Filtered				Field Filtered Metals	Field Filtered Metals	Lab Filtered SVOC	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC
Sample Type	Units	ODWS	Ontario SCS		Field Duplicate		Field Duplicate												
General Chemistry																			
Acidity	mg/L	n/v	n/v	-	-	-	-	59	-	74	-	38	-	44	-	48	-	52	-
Alkalinity, Bicarbonate (as CaCO3)	mg/L	n/v	n/v	320	320	-	-	330	-	320	-	280	-	290	-	250	-	350	-
Alkalinity, Carbonate (as CaCO3)	mg/L	n/v	n/v	1.5	1.5	-	-	<1.0	-	<1.0	-	1.4	-	1.4	-	1.3	-	1.1	-
Alkalinity, Total (as CaCO3)	mg/L	30-500[E]	n/v	330	330	-	-	330	-	320	-	280	-	300	-	260	-	350	-
Ammonia (as N)	mg/L	n/v	n/v	<0.050	<0.050	-	-	0.057	-	<0.050	-	<0.050	-	<0.050	-	<0.050	-	<0.050	-
Anion Sum	meq/L	n/v	n/v	7.88	7.88	-	-	8.49	-	10.7	-	10.3	-	10.1	-	8.81	-	10.5	-
Cation Sum	meq/L	n/v	n/v	7.98	7.84	-	-	8.93	-	10.9	-	9.49	-	9.17	-	8.75	-	10.7	-
Chloride	mg/L	250[D]	790[G] 790[H]	9	9	-	-	34	-	17	-	100	-	40	-	48	-	30	-
Cyanide (Free)	µg/L	200[C]	52[G] 52[H]	-	-	-	-	<2	-	<2	-	<2	-	<1	-	<1	-	<1	-
Dissolved Organic Carbon (DOC)	mg/L	5[D]	n/v	2.8	2.6	-	-	1.7	-	2.0	-	2.3	-	1.6	-	2.0	-	2.0	-
Electrical Conductivity, Lab	µmhos/cm	n/v	n/a[GH]	720	720	-	-	790	-	950	-	1,000	-	950	-	860	-	870	-
Fluoride	mg/L	1.5_b[C]	n/v	-	-	-	-	0.11	-	0.12	-	<0.10	-	0.15	-	<0.10	-	<0.10	-
Hardness (as CaCO3)	mg/L	80-100[E]	n/v	**390[E]**	**380[E]**	-	-	**420[E]**	-	**510[E]**	-	**400[E]**	-	**390[E]**	-	**360[E]**	-	**490[E]**	-
Ion Balance	%	n/v	n/v	0.640	0.270	-	-	2.50	-	0.790	-	4.11	-	4.70	-	0.310	-	0.790	-
Langelier Index (at 20 C)	none	n/v	n/v	0.883	0.885	-	-	0.478	-	0.620	-	0.813	-	0.745	-	0.770	-	0.800	-
Langelier Index (at 4 C)	none	n/v	n/v	0.634	0.637	-	-	0.230	-	0.373	-	0.566	-	0.497	-	0.523	-	0.553	-
Nitrate (as N)	mg/L	10.0_d[C]	n/v	<0.10	<0.10	-	-	0.42	-	0.16	-	<0.10	-	0.25	-	<0.10	-	0.79	-
Nitrate + Nitrite (as N)	mg/L	10.0_d[C]	n/v	<0.10	<0.10	-	-	0.42	-	0.16	-	<0.10	-	0.25	-	<0.10	-	0.79	-
Nitrite (as N)	mg/L	1.0_d[C]	n/v	<0.010	<0.010	-	-	<0.010	-	<0.010	-	<0.010	-	<0.010	-	<0.010	-	<0.010	-
Orthophosphate(as P)	mg/L	n/v	n/v	<0.010	<0.010	-	-	<0.010	-	<0.010	-	<0.010	-	<0.010	-	<0.010	-	0.011	-
pH	S.U.	6.5-8.5[E]	n/v	7.69	7.70	-	-	7.29	-	7.36	-	7.72	-	7.69	-	7.75	-	7.52	-
Saturation pH (at 20 C)	none	n/v	n/v	6.81	6.82	-	-	6.81	-	6.74	-	6.91	-	6.95	-	6.98	-	6.72	-
Saturation pH (at 4 C)	none	n/v	n/v	7.06	7.07	-	-	7.06	-	6.99	-	7.15	-	7.19	-	7.23	-	6.97	-
Sulfate	mg/L	500_h[D]	n/v	54	53	-	-	41	-	180	-	90	-	150	-	110	-	130	-
Total Dissolved Solids	mg/L	500[D]	n/v	-	-	-	-	**526[D]**	-	**634[D]**	-	**594[D]**	-	**640[D]**	-	**558[D]**	-	**585[D]**	-
Total Dissolved Solids (Calculated)	mg/L	500[D]	n/v	420	420	-	-	460	-	**610[D]**	-	**550[D]**	-	**550[D]**	-	490	-	**590[D]**	-
Total Organic Carbon	mg/L	n/v	n/v	-	-	-	-	1.8	-	2.0	-	2.4	-	2.1	-	2.0	-	2.4	-
Total Suspended Solids	mg/L	n/v	n/v	19	11	-	-	17	-	<10	-	<10	-	16	-	<10	-	15	-
Turbidity, Lab	NTU	5_j[D,E]	n/v	4.4	**5.9[D]**	-	-	**22[D]**	-	2.7	-	3.9	-	**9.0[D]**	-	1.5	-	2.8	-
BTEX and Petroleum Hydrocarbons																			
Benzene	µg/L	1[C]	0.5[G] 5[H]	<0.20	<0.20	-	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-
Toluene	µg/L	24[D]	24[G] 22[H]	<0.20	<0.20	-	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-
Ethylbenzene	µg/L	2.4[D]	2.4[G] 2.4[H]	<0.20	<0.20	-	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-
Xylene, m & p-	µg/L	300_{s1}[D]	$_{s1}$[GH]	<0.20	<0.20	-	-	<0.20	-	<0.40	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-
Xylene, o-	µg/L	300_{s1}[D]	$_{s1}$[GH]	<0.20	<0.20	-	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-
Xylenes, Total	µg/L	300[D]	72_{s1}[G] 300_{s1}[H]	<0.20	<0.20	-	-	<0.20	-	<0.40	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-
PHC F1 (C6-C10 range)	µg/L	n/v	$_{s7}$[GH]	-	-	-	-	<25	-	<25	-	<25	-	<25	-	<25	-	<25	-
PHC F1 (C6-C10 range) minus BTEX	µg/L	n/v	420_{s7}[GH]	-	-	-	-	<25	-	<25	-	<25	-	<25	-	<25	-	<25	-
PHC F2 (>C10-C16 range)	µg/L	n/v	150_{s15}[GH]	-	-	-	-	<100	-	<100	-	<100	-	<100	-	<100	-	<100	-
PHC F3 (>C16-C34 range)	µg/L	n/v	500_{s8}[GH]	-	-	-	-	<200	-	<200	-	<200	-	<200	-	<200	-	<200	-
PHC F4 (>C34-C50 range)	µg/L	n/v	500_{s10}[GH]	-	-	-	-	<200	-	<200	-	<200	-	<200	-	<200	-	<200	-
Chromatogram to baseline at C50	none	n/v	n/v	-	-	-	-	YES	-	YES	-	YES	-	YES	-	YES	-	YES	-

See notes on last page

Table 7
Summary of Groundwater Analytical Results - Monitoring Wells
Clarington Transformer Station
Hydro One Networks Inc.

Sample Location				MW4-13-S (Contd.)															
Sample Date				27-Nov-14	27-Nov-14	27-Nov-14	27-Nov-14	14-May-15	14-May-15	5-Oct-15	5-Oct-15	13-Apr-16	13-Apr-16	31-Oct-16	31-Oct-16	25-Apr-17	25-Apr-17	16-Oct-17	16-Oct-17
Sample ID				WG-160900764-20141127-RD07	WG-160900764-20141127-RD08	WG-160900764-20141127-RD07A	WG-160900764-20141127-RD08A	WG-160900764-20150514-MF01	WG-160900764-20150514-MF01A	WG-160900764-20151005-RD03	WG-160900764-20151005-RD03A	WG-160900764-20160413-AM11	WG-160900764-20160413-AM11A	WG-160900764-20161031-AM02	WG-160900764-20161031-AM02A	WG-160900764-20170425-RD-06	WG-160900764-20170425-RD-06A	WG-160900764-20171016-RD02	WG-160900764-20171016-RD02A
Sampling Company				STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC
Laboratory				MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX
Laboratory Work Order				B4M5208	B4M5208	B4M5208	B4M5208	B590648	B590648	B5K2885	B5K2885	B674114	B674114	B6N7980	B6N7980	B783695	B783695	B7M9492	B7M9492
Laboratory Sample ID				YQ4962	YQ4964	YQ4963	YQ4965	AGX650	AGX651	BCN652	BCN653	CEO890	CEO891	DJK302	DJK303	EGX370	EGX375	FIQ042	FIQ043
Filtered				Field Filtered Metals	Field Filtered Metals	Lab Filtered SVOC	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC
Sample Type	Units	ODWS	Ontario SCS		Field Duplicate		Field Duplicate												
Metals																			
Aluminum	µg/L	100[E]	n/v	<5.0	<5.0	<5.0	<5.0	<5	-	<5.0	-	<5	-	<5	-	6.4	-	<5	-
Antimony	µg/L	6[B]	6[G] 6[H]	<0.50	<0.50	<0.50	<0.50	<0.5	-	<0.5	-	<0.5	-	<0.5	-	<0.50	-	<0.5	-
Arsenic	µg/L	25[B]	25[G] 25[H]	<1.0	<1.0	<1.0	<1.0	<1	-	<1	-	<1	-	<1	-	<1.0	-	<1	-
Barium	µg/L	1,000[C]	1,000[G] 1,000[H]	51	51	53	53	75	-	93	-	64	-	120	-	63	-	110	-
Beryllium	µg/L	n/v	4[G] 4[H]	<0.50	<0.50	<0.50	<0.50	<0.5	-	<0.5	-	<0.5	-	<0.5	-	<0.50	-	<0.5	-
Boron	µg/L	5,000[B]	5,000[G] 5,000[H]	40	32	17	17	19	-	46	-	33	-	58	-	48	-	110	-
Cadmium	µg/L	5[C]	2.1[G] 2.1[H]	<0.10	<0.10	<0.10	<0.10	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.10	-	<0.1	-
Calcium	µg/L	n/v	n/v	130,000	130,000	140,000	140,000	140,000	-	180,000	-	140,000	-	120,000	-	120,000	-	170,000	-
Chromium	µg/L	50[C]	50[G] 50[H]	<5.0	<5.0	<5.0	<5.0	<5	-	<5.0	-	<5	-	<5	-	<5.0	-	<5	-
Chromium (Hexavalent)	µg/L	n/v	25[G] 25[H]	-	-	-	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-
Cobalt	µg/L	n/v	3.8[G] 3.8[H]	<0.50	<0.50	<0.50	<0.50	<0.5	-	<0.5	-	<0.5	-	<0.5	-	<0.50	-	<0.5	-
Copper	µg/L	1,000[D]	69[G] 69[H]	<1.0	<1.0	<1.0	<1.0	<1	-	<1	-	<1	-	<1	-	<1.0	-	1.6	-
Iron	µg/L	300[D]	n/v	<100	<100	<100	<100	<100	-	<100	-	<100	-	<100	-	<100	-	<100	-
Lead	µg/L	10[C]	10[G] 10[H]	<0.50	<0.50	<0.50	<0.50	<0.5	-	<0.5	-	<0.5	-	<0.5	-	<0.50	-	<0.5	-
Magnesium	µg/L	n/v	n/v	12,000	12,000	12,000	12,000	18,000	-	17,000	-	14,000	-	23,000	-	13,000	-	17,000	-
Manganese	µg/L	50[D]	n/v	13	13	10	8.0	13	-	<2	-	2.5	-	3.7	-	2.5	-	<2	-
Mercury	µg/L	1[C]	0.1[G] 0.29[H]	-	-	-	-	<0.10	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-
Molybdenum	µg/L	n/v	70[G] 70[H]	<0.50	<0.50	<0.50	<0.50	<0.5	-	<0.5	-	<0.5	-	0.56	-	<0.50	-	<0.5	-
Nickel	µg/L	n/v	100[G] 100[H]	<1.0	<1.0	<1.0	<1.0	<1	-	<1	-	<1	-	<1	-	<1.0	-	<1	-
Phosphorus	µg/L	n/v	n/v	<100	<100	<100	<100	<100	-	<100	-	<100	-	<100	-	<100	-	<100	-
Potassium	µg/L	n/v	n/v	730	700	770	760	1,000	-	1,200	-	800	-	1,700	-	930	-	1,600	-
Selenium	µg/L	10[C]	10[G] 10[H]	<2.0	<2.0	<2.0	<2.0	<2	-	<2	-	<2	-	<2	-	<2.0	-	<2	-
Silicon	µg/L	n/v	n/v	4,200	4,200	4,500	4,500	5,700	-	5,500	-	3,400	-	7,400	-	3,300	-	6,200	-
Silver	µg/L	n/v	1.2[G] 1.2[H]	<0.10	<0.10	<0.10	<0.10	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.10	-	<0.1	-
Sodium	µg/L	200,000[D] 20,000[F]	490,000[G] 490,000[H]	5,800	5,300	4,900	4,800	12,000	-	14,000	-	**35,000[F]**	-	**29,000[F]**	-	**34,000[F]**	-	**22,000[F]**	-
Strontium	µg/L	n/v	n/v	340	330	350	350	500	-	480	-	410	-	660	-	370	-	550	-
Thallium	µg/L	n/v	2[G] 2[H]	<0.050	<0.050	<0.050	<0.050	<0.05	-	<0.05	-	<0.05	-	<0.05	-	<0.050	-	<0.05	-
Titanium	µg/L	n/v	n/v	<5.0	<5.0	<5.0	<5.0	<5	-	<5.0	-	<5	-	<5	-	<5.0	-	<5	-
Uranium	µg/L	20[C]	20[G] 20[H]	0.89	0.88	0.96	0.94	0.73	-	1.1	-	0.76	-	0.8	-	0.79	-	0.88	-
Vanadium	µg/L	n/v	6.2[G] 6.2[H]	<0.50	<0.50	<0.50	<0.50	0.63	-	<0.5	-	0.6	-	<0.5	-	<0.50	-	<0.5	-
Zinc	µg/L	5,000[D]	890[G] 890[H]	<5.0	<5.0	<5.0	<5.0	<5	-	<5.0	-	<5	-	<5	-	<5.0	-	<5	-
Zirconium	µg/L	n/v	n/v	<1.0	<1.0	<1.0	<1.0	<1	-	<1	-	<1	-	<1	-	<1.0	-	<1	-
Polychlorinated Biphenyls																			
Aroclor 1242	µg/L	n/v	$_{s14}$[GH]	-	-	-	-	<0.05	-	<0.05	-	<0.05	-	<0.05	-	<0.05	-	<0.05	-
Aroclor 1248	µg/L	n/v	$_{s14}$[GH]	-	-	-	-	<0.05	-	<0.05	-	<0.05	-	<0.05	-	<0.05	-	<0.05	-
Aroclor 1254	µg/L	n/v	$_{s14}$[GH]	-	-	-	-	<0.05	-	<0.05	-	<0.05	-	<0.05	-	<0.05	-	<0.05	-
Aroclor 1260	µg/L	n/v	$_{s14}$[GH]	-	-	-	-	<0.05	-	<0.05	-	<0.05	-	<0.05	-	<0.05	-	<0.05	-
Polychlorinated Biphenyls (PCBs)	µg/L	3[B]	0.2$_{s14}$[GH]	-	-	-	-	<0.05	-	<0.05	-	<0.05	-	<0.05	-	<0.05	-	<0.05	-

See notes on last page

Table 7
Summary of Groundwater Analytical Results - Monitoring Wells
Clarington Transformer Station
Hydro One Networks Inc.

Sample Location				MW4-13-S (Contd.)															
Sample Date				27-Nov-14	27-Nov-14	27-Nov-14	27-Nov-14	14-May-15	14-May-15	5-Oct-15	5-Oct-15	13-Apr-16	13-Apr-16	31-Oct-16	31-Oct-16	25-Apr-17	25-Apr-17	16-Oct-17	16-Oct-17
Sample ID				WG-160900764-20141127-RD07	WG-160900764-20141127-RD08	WG-160900764-20141127-RD07A	WG-160900764-20141127-RD08A	WG-160900764-20150514-MF01	WG-160900764-20150514-MF01A	WG-160900764-20151005-RD03	WG-160900764-20151005-RD03A	WG-160900764-20160413-AM11	WG-160900764-20160413-AM11A	WG-160900764-20161031-AM02	WG-160900764-20161031-AM02A	WG-160900764-20170425-RD-06	WG-160900764-20170425-RD-06A	WG-160900764-20171016-RD02	WG-160900764-20171016-RD02A
Sampling Company				STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC
Laboratory				MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX
Laboratory Work Order				B4M5208	B4M5208	B4M5208	B4M5208	B590648	B590648	B5K2885	B5K2885	B674114	B674114	B6N7980	B6N7980	B783695	B783695	B7M9492	B7M9492
Laboratory Sample ID				YQ4962	YQ4964	YQ4963	YQ4965	AGX650	AGX651	BCN652	BCN653	CEO890	CEO891	DJK302	DJK303	EGX370	EGX375	FIQ042	FIQ043
Filtered				Field Filtered Metals	Field Filtered Metals	Lab Filtered SVOC	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC
Sample Type	Units	ODWS	Ontario SCS		Field Duplicate		Field Duplicate												
Semi-Volatile Organic Compounds																			
Phthalates																			
Bis(2-Ethylhexyl)phthalate (DEHP)	µg/L	n/v	10[G] 10[H]	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Diethyl Phthalate	µg/L	n/v	30[G] 30[H]	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dimethyl Phthalate	µg/L	n/v	30[G] 30[H]	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Polycyclic Aromatic Hydrocarbons																			
Acenaphthene	µg/L	n/v	4.1[G] 4.1[H]	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Acenaphthylene	µg/L	n/v	1[G] 1[H]	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Anthracene	µg/L	n/v	1[G] 1[H]	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(a)anthracene	µg/L	n/v	1[G] 1[H]	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(a)pyrene	µg/L	0.01[C]	0.01[G] 0.01[H]	<0.01	<0.01	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Benzo(b/j)fluoranthene	µg/L	n/v	0.1[s2] [GH]	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(g,h,i)perylene	µg/L	n/v	0.2[G] 0.2[H]	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(k)fluoranthene	µg/L	n/v	0.1[G] 0.1[H]	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Chrysene	µg/L	n/v	0.1[G] 0.1[H]	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Dibenzo(a,h)anthracene	µg/L	n/v	0.2[G] 0.2[H]	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	µg/L	n/v	0.41[G] 0.41[H]	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Fluorene	µg/L	n/v	120[G] 120[H]	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Indeno(1,2,3-cd)pyrene	µg/L	n/v	0.2[G] 0.2[H]	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Methylnaphthalene (Total)	µg/L	n/v	3.2[s3] [GH]	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28
Methylnaphthalene, 1-	µg/L	n/v	[s3] [GH]	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Methylnaphthalene, 2-	µg/L	n/v	[s3] [GH]	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Naphthalene	µg/L	n/v	7[G] 11[H]	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Phenanthrene	µg/L	n/v	1[G] 1[H]	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Pyrene	µg/L	n/v	4.1[G] 4.1[H]	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Remaining Semi-Volatile Organic Compounds																			
Biphenyl, 1,1'- (Biphenyl)	µg/L	n/v	0.5[G] 0.5[H]	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Bis(2-Chloroethyl)ether	µg/L	n/v	5[G] 5[H]	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Bis(2-Chloroisopropyl)ether	µg/L	n/v	120[G] 120[H]	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Chloroaniline, 4-	µg/L	n/v	10[G] 10[H]	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chlorophenol, 2- (ortho-Chlorophenol)	µg/L	n/v	8.9[G] 8.9[H]	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dichlorobenzidine, 3,3'-	µg/L	n/v	0.5[G] 0.5[H]	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Dichlorophenol, 2,4-	µg/L	900[C] 0.3[I][D]	20[G] 20[H]	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dimethylphenol, 2,4-	µg/L	n/v	59[G] 59[H]	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Dinitrophenol, 2,4-	µg/L	n/v	10[G] 10[H]	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Dinitrotoluene, 2,4-	µg/L	n/v	5[13] [GH]	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Dinitrotoluene, 2,6-	µg/L	n/v	5[13] [GH]	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Pentachlorophenol	µg/L	60[C] 30[I][D]	30[G] 30[H]	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Phenol	µg/L	n/v	890[G] 890[H]	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Trichlorobenzene, 1,2,4-	µg/L	n/v	3[G] 70[H]	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Trichlorophenol, 2,4,5-	µg/L	n/v	8.9[G] 8.9[H]	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Trichlorophenol, 2,4,6-	µg/L	5[C] 2[I][D]	2[G] 2[H]	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2

See notes on last page

Table 7
Summary of Groundwater Analytical Results - Monitoring Wells
Clarington Transformer Station
Hydro One Networks Inc.

Sample Location				MW4-13-S (Contd.)															
Sample Date				27-Nov-14	27-Nov-14	27-Nov-14	27-Nov-14	14-May-15	14-May-15	5-Oct-15	5-Oct-15	13-Apr-16	13-Apr-16	31-Oct-16	31-Oct-16	25-Apr-17	25-Apr-17	16-Oct-17	16-Oct-17
Sample ID				WG-160900764-20141127-RD07	WG-160900764-20141127-RD08	WG-160900764-20141127-RD07A	WG-160900764-20141127-RD08A	WG-160900764-20150514-MF01	WG-160900764-20150514-MF01A	WG-160900764-20151005-RD03	WG-160900764-20151005-RD03A	WG-160900764-20160413-AM11	WG-160900764-20160413-AM11A	WG-160900764-20161031-AM02	WG-160900764-20161031-AM02A	WG-160900764-20170425-RD-06	WG-160900764-20170425-RD-06A	WG-160900764-20171016-RD02	WG-160900764-20171016-RD02A
Sampling Company				STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC
Laboratory				MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX
Laboratory Work Order				B4M5208	B4M5208	B4M5208	B4M5208	B590648	B590648	B5K2885	B5K2885	B674114	B674114	B6N7980	B6N7980	B783695	B783695	B7M9492	B7M9492
Laboratory Sample ID				YQ4962	YQ4964	YQ4963	YQ4965	AGX650	AGX651	BCN652	BCN653	CEO890	CEO891	DJK302	DJK303	EGX370	EGX375	FIQ042	FIQ043
Filtered				Field Filtered Metals	Field Filtered Metals	Lab Filtered SVOC	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC
Sample Type	Units	ODWS	Ontario SCS		Field Duplicate		Field Duplicate												
Volatile Organic Compounds																			
Acetone	µg/L	n/v	2,700[G] 2,700[H]	<10	<10	-	-	<10	-	<10	-	<10	-	<10	-	<10	-	<10	-
Bromodichloromethane	µg/L	n/v	16[G] 16[H]	<0.50	<0.50	-	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-
Bromoform (Tribromomethane)	µg/L	n/v	5[G] 25[H]	<1.0	<1.0	-	-	<1.0	-	<1.0	-	<1.0	-	<1.0	-	<1.0	-	<1.0	-
Bromomethane (Methyl bromide)	µg/L	n/v	0.89[G] 0.89[H]	<0.50	<0.50	-	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-
Carbon Tetrachloride (Tetrachloromethane)	µg/L	2[C]	0.2[G] 0.79[H]	<0.20	<0.20	-	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-
Chlorobenzene (Monochlorobenzene)	µg/L	80[C] 30[D]	30[G] 30[H]	<0.20	<0.20	-	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-
Chloroform (Trichloromethane)	µg/L	n/v	2[G] 2.4[H]	<0.20	<0.20	-	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-
Dibromochloromethane	µg/L	n/v	25[G] 25[H]	<0.50	<0.50	-	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-
Dichlorobenzene, 1,2-	µg/L	200[C] 3[D]	3[G] 3[H]	<0.50	<0.50	-	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-
Dichlorobenzene, 1,3-	µg/L	n/v	59[G] 59[H]	<0.50	<0.50	-	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-
Dichlorobenzene, 1,4-	µg/L	5[C] 1[D]	0.5[G] 1[H]	<0.50	<0.50	-	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-
Dichlorodifluoromethane (Freon 12)	µg/L	n/v	590[G] 590[H]	<1.0	<1.0	-	-	<1.0	-	<1.0	-	<1.0	-	<1.0	-	<1.0	-	<1.0	-
Dichloroethane, 1,1-	µg/L	n/v	5[G] 5[H]	<0.20	<0.20	-	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-
Dichloroethane, 1,2-	µg/L	5[B]	0.5[G] 1.6[H]	<0.50	<0.50	-	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-
Dichloroethene, 1,1-	µg/L	14[C]	0.5[G] 1.6[H]	<0.20	<0.20	-	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-
Dichloroethene, cis-1,2-	µg/L	n/v	1.6[G] 1.6[H]	<0.50	<0.50	-	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-
Dichloroethene, trans-1,2-	µg/L	n/v	1.6[G] 1.6[H]	<0.50	<0.50	-	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-
Dichloropropane, 1,2-	µg/L	n/v	0.58[G] 5[H]	<0.20	<0.20	-	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-
Dichloropropene, 1,3- (sum of isomers cis + trans)	µg/L	n/v	0.5[511][GH]	<0.50	<0.50	-	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-
Dichloropropene, cis-1,3-	µg/L	n/v	[511][GH]	<0.30	<0.30	-	-	<0.30	-	<0.30	-	<0.30	-	<0.30	-	<0.30	-	<0.30	-
Dichloropropene, trans-1,3-	µg/L	n/v	[511][GH]	<0.40	<0.40	-	-	<0.40	-	<0.40	-	<0.40	-	<0.40	-	<0.40	-	<0.40	-
Ethylene Dibromide (Dibromoethane, 1,2-)	µg/L	n/v	0.2[G] 0.2[H]	<0.20	<0.20	-	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-
Hexane (n-Hexane)	µg/L	n/v	5[G] 51[H]	<1.0	<1.0	-	-	<1.0	-	<1.0	-	<1.0	-	<1.0	-	<1.0	-	<1.0	-
Methyl Ethyl Ketone (MEK) (2-Butanone)	µg/L	n/v	1,800[G] 1,800[H]	<10	<10	-	-	<10	-	<10	-	<10	-	<10	-	<10	-	<10	-
Methyl Isobutyl Ketone (MIBK)	µg/L	n/v	640[G] 640[H]	<5.0	<5.0	-	-	<5.0	-	<5.0	-	<5.0	-	<5.0	-	<5.0	-	<5.0	-
Methyl tert-butyl ether (MTBE)	µg/L	n/v	15[G] 15[H]	<0.50	<0.50	-	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-
Methylene Chloride (Dichloromethane)	µg/L	50[C]	26[G] 50[H]	<2.0	<2.0	-	-	<2.0	-	<2.0	-	<2.0	-	<2.0	-	<2.0	-	<2.0	-
Styrene	µg/L	n/v	5.4[G] 5.4[H]	<0.50	<0.50	-	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-
Tetrachloroethane, 1,1,1,2-	µg/L	n/v	1.1[G] 1.1[H]	<0.50	<0.50	-	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-
Tetrachloroethane, 1,1,2,2-	µg/L	n/v	0.5[G] 1[H]	<0.50	<0.50	-	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-
Tetrachloroethene (PCE)	µg/L	30[C]	0.5[G] 1.6[H]	<0.20	<0.20	-	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-
Trichloroethane, 1,1,1-	µg/L	n/v	23[G] 200[H]	<0.20	<0.20	-	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-
Trichloroethane, 1,1,2-	µg/L	n/v	0.5[G] 4.7[H]	<0.50	<0.50	-	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-
Trichloroethene (TCE)	µg/L	5[C]	0.5[G] 1.6[H]	<0.20	<0.20	-	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-
Trichlorofluoromethane (Freon 11)	µg/L	n/v	150[G] 150[H]	<0.50	<0.50	-	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-
Trihalomethanes	µg/L	100[e][C]	n/v	-	-	-	-	<1.0	-	<0.20	-	-	-	-	-	-	-	<1.0	-
Vinyl Chloride	µg/L	1[C]	0.5[G] 0.5[H]	<0.20	<0.20	-	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-

See notes on last page

Table 7
Summary of Groundwater Analytical Results - Monitoring Wells
Clarington Transformer Station
Hydro One Networks Inc.

Sample Location				MW4-15D								MW5-14-D						
Sample Date				7-Apr-15	7-Apr-15	5-Oct-15	5-Oct-15	12-Apr-16	12-Apr-16	24-Apr-17	24-Apr-17	3-Feb-15	9-Apr-15	9-Apr-15	6-Oct-15	6-Oct-15	12-Apr-16	12-Apr-16
Sample ID				WG-160900764-20150407-RD01	WG-160900764-20150407-RD01A	WG-160900764-20151005-RD04	WG-160900764-20151005-RD04A	WG-160900764-20160412-AM01	WG-160900764-20160412-AM01A	WG-160900764-20170424-KR-05	WG-160900764-20170424-KR-05A	WG-160900764-20150203-RD02	WG-160900764-20150409-RD09	WG-160900764-20150409-RD09A	WG-160900764-2015106-RD06	WG-160900764-2015106-RD06A	WG-160900764-20160412-AM06	WG-160900764-20160412-AM06A
Sampling Company				STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC
Laboratory				MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX
Laboratory Work Order				B561683	B561683	B5K2885	B5K2885	B673021	B673021	B782020	B782020	B520805	B562741	B562741	B5K3284	B5K3284	B673021	B673021
Laboratory Sample ID				ABP939	ABP940	BCN654	BCN655	CEK201	CEK202	EGP554	EGP555	ZK6639	ABU949	ABU950	BCP426	BCP427	CEK211	CEK212
Filtered				Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC
Sample Type	Units	ODWS	Ontario SCS															
General Chemistry																		
Acidity	mg/L	n/v	n/v	<10	-	<10	-	<10	-	<10	-	<10	<10	-	NA	-	<10	-
Alkalinity, Bicarbonate (as CaCO3)	mg/L	n/v	n/v	150	-	190	-	140	-	380	-	240	180	-	180	-	140	-
Alkalinity, Carbonate (as CaCO3)	mg/L	n/v	n/v	1.2	-	<1.0	-	<1.0	-	6.1	-	4.8	2.1	-	<1.0	-	1.7	-
Alkalinity, Total (as CaCO3)	mg/L	30-500[E]	n/v	150	-	190	-	140	-	390	-	250	180	-	180	-	140	-
Ammonia (as N)	mg/L	n/v	n/v	<0.05	-	<0.050	-	<0.050	-	<0.050	-	0.078	<0.05	-	<0.050	-	<0.050	-
Anion Sum	meq/L	n/v	n/v	6.31	-	6.05	-	4.85	-	9.42	-	5.90	4.22	-	4.18	-	3.55	-
Cation Sum	meq/L	n/v	n/v	6.20	-	5.27	-	4.66	-	3.94	-	3.38	2.73	-	2.43	-	2.74	-
Chloride	mg/L	250[D]	790[G] 790[H]	11	-	7.5	-	6.6	-	3.4	-	7	3	-	5.0	-	4.0	-
Cyanide (Free)	µg/L	200[C]	52[G] 52[H]	<2	-	<2	-	<2	-	<1	-	<2	<2	-	<2	-	<2	-
Dissolved Organic Carbon (DOC)	mg/L	5[D]	n/v	**6.3[D]**	-	**10[D]**	-	2.8	-	1.8	-	**39[D]**	**13[D]**	-	**7.7[D]**	-	4.1	-
Electrical Conductivity, Lab	µmhos/cm	n/v	n/a[GH]	630	-	490	-	480	-	400	-	310	270	-	280	-	260	-
Fluoride	mg/L	1.5_b[C]	n/v	0.62	-	0.80	-	0.89	-	0.93	-	1.1	1.2	-	1.2	-	1.3	-
Hardness (as CaCO3)	mg/L	80-100[E]	n/v	**120[E]**	-	82	-	**69[E]**	-	**50[E]**	-	**33[E]**	**25[E]**	-	**25[E]**	-	**28[E]**	-
Ion Balance	%	n/v	n/v	0.890	-	6.85	-	2.00	-	41.1	-	27.1	21.6	-	26.5	-	12.9	-
Langelier Index (at 20 C)	none	n/v	n/v	0.102	-	-0.168	-	-0.334	-	0.457	-	0.223	-0.275	-	-0.628	-	-0.341	-
Langelier Index (at 4 C)	none	n/v	n/v	-0.147	-	-0.417	-	-0.584	-	0.208	-	-0.0250	-0.524	-	-0.877	-	-0.589	-
Nitrate (as N)	mg/L	10.0_d[C]	n/v	<0.1	-	<0.10	-	<0.10	-	0.15	-	<0.50	<0.1	-	<0.10	-	<0.10	-
Nitrate + Nitrite (as N)	mg/L	10.0_d[C]	n/v	<0.1	-	<0.10	-	<0.10	-	0.15	-	<0.50	<0.1	-	<0.10	-	<0.10	-
Nitrite (as N)	mg/L	1.0_d[C]	n/v	<0.01	-	<0.010	-	<0.010	-	<0.010	-	<0.050	<0.01	-	<0.010	-	<0.010	-
Orthophosphate(as P)	mg/L	n/v	n/v	<0.01	-	<0.010	-	0.010	-	0.024	-	0.018	0.010	-	<0.010	-	<0.10 DB	-
pH	S.U.	6.5-8.5[E]	n/v	7.94	-	7.69	-	7.72	-	8.23	-	8.32	8.10	-	7.73	-	8.12	-
Saturation pH (at 20 C)	none	n/v	n/v	7.84	-	7.86	-	8.05	-	7.78	-	8.10	8.38	-	8.36	-	8.46	-
Saturation pH (at 4 C)	none	n/v	n/v	8.09	-	8.11	-	8.30	-	8.02	-	8.34	8.63	-	8.61	-	8.71	-
Sulfate	mg/L	500_h[D]	n/v	150	-	93	-	86	-	71	-	32	24	-	20	-	31	-
Total Dissolved Solids	mg/L	500[D]	n/v	424	-	330	-	314	-	332	-	412	414	-	332	-	**532[D]**	-
Total Dissolved Solids (Calculated)	mg/L	500[D]	n/v	380	-	340	-	290	-	400	-	270	200	-	190	-	190	-
Total Organic Carbon	mg/L	n/v	n/v	6.9	-	9.4	-	4.3	-	4.5	-	37	12	-	8.5	-	6.4	-
Total Suspended Solids	mg/L	n/v	n/v	11	-	14	-	18	-	1,700	-	260	250	-	53	-	40	-
Turbidity, Lab	NTU	5_j[D E]	n/v	**31[D]**	-	**490[D]**	-	**56[D]**	-	**1,500[D]**	-	**490[D]**	**600[D]**	-	**350[D]**	-	**1,300[D]**	-
BTEX and Petroleum Hydrocarbons																		
Benzene	µg/L	1[C]	0.5[G] 5[H]	<0.2	-	<0.20	-	<0.20	-	<0.20	-	<0.20	<0.2	-	<0.20	-	<0.20	-
Toluene	µg/L	24[D]	24[G] 22[H]	<0.2	-	<0.20	-	<0.20	-	<0.20	-	0.43	0.28	-	0.20	-	<0.20	-
Ethylbenzene	µg/L	2.4[D]	2.4[G] 2.4[H]	<0.2	-	<0.20	-	<0.20	-	<0.20	-	<0.20	<0.2	-	<0.20	-	<0.20	-
Xylene, m & p-	µg/L	300_{s1}[D]	$_{s1}$[GH]	<0.2	-	<0.40	-	<0.20	-	<0.20	-	0.21	<0.2	-	<0.20	-	<0.20	-
Xylene, o-	µg/L	300_{s1}[D]	$_{s1}$[GH]	<0.2	-	<0.20	-	<0.20	-	<0.20	-	<0.20	<0.2	-	<0.20	-	<0.20	-
Xylenes, Total	µg/L	300[D]	72_{s1}[G] 300_{s1}[H]	<0.2	-	<0.40	-	<0.20	-	<0.20	-	0.21	<0.2	-	<0.20	-	<0.20	-
PHC F1 (C6-C10 range)	µg/L	n/v	$_{s7}$[GH]	<25	-	<25	-	<25	-	<25	-	<25	<25	-	<25	-	<25	-
PHC F1 (C6-C10 range) minus BTEX	µg/L	n/v	420_{s7}[GH]	<25	-	<25	-	<25	-	<25	-	<25	<25	-	<25	-	<25	-
PHC F2 (>C10-C16 range)	µg/L	n/v	150_{s15}[GH]	<100	-	<100	-	<100	-	<100	-	<100	<100	-	<100	-	<100	-
PHC F3 (>C16-C34 range)	µg/L	n/v	500_{s8}[GH]	<200	-	<200	-	<200	-	<200	-	<200	<200	-	<200	-	<200	-
PHC F4 (>C34-C50 range)	µg/L	n/v	500_{s10}[GH]	<200	-	<200	-	<200	-	<200	-	<200	<200	-	<200	-	<200	-
Chromatogram to baseline at C50	none	n/v	n/v	YES	-	YES	-	YES	-	YES	-	YES	YES	-	YES	-	YES	-

See notes on last page

Table 7
Summary of Groundwater Analytical Results - Monitoring Wells
Clarington Transformer Station
Hydro One Networks Inc.

Sample Location				MW4-15D								MW5-14-D						
Sample Date				7-Apr-15	7-Apr-15	5-Oct-15	5-Oct-15	12-Apr-16	12-Apr-16	24-Apr-17	24-Apr-17	3-Feb-15	9-Apr-15	9-Apr-15	6-Oct-15	6-Oct-15	12-Apr-16	12-Apr-16
Sample ID				WG-160900764-20150407-RD01	WG-160900764-20150407-RD01A	WG-160900764-20151005-RD04	WG-160900764-20151005-RD04A	WG-160900764-20160412-AM01	WG-160900764-20160412-AM01A	WG-160900764-20170424-KR-05	WG-160900764-20170424-KR-05A	WG-160900764-20150203-RD02	WG-160900764-20150409-RD09	WG-160900764-20150409-RD09A	WG-160900764-2015106-RD06	WG-160900764-2015106-RD06A	WG-160900764-20160412-AM06	WG-160900764-20160412-AM06A
Sampling Company				STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC
Laboratory				MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX
Laboratory Work Order				B561683	B561683	B5K2885	B5K2885	B673021	B673021	B782020	B782020	B520805	B562741	B562741	B5K3284	B5K3284	B673021	B673021
Laboratory Sample ID				ABP939	ABP940	BCN654	BCN655	CEK201	CEK202	EGP554	EGP555	ZK6639	ABU949	ABU950	BCP426	BCP427	CEK211	CEK212
Filtered				Field Filtered	Lab Filtered SVOC	Field Filtered	Lab Filtered SVOC	Field Filtered	Lab Filtered SVOC	Field Filtered	Lab Filtered SVOC	Field Filtered	Field Filtered	Lab Filtered SVOC	Field Filtered	Lab Filtered SVOC	Field Filtered	Lab Filtered SVOC
Sample Type	Units	ODWS	Ontario SCS	Metals														
Metals																		
Aluminum	µg/L	100[E]	n/v	5.1	-	56	-	10	-	22	-	70	31	-	19	-	48	-
Antimony	µg/L	6[B]	6[G] 6[H]	0.67	-	1	-	0.91	-	0.62	-	0.55	<0.5	-	<0.5	-	<0.5	-
Arsenic	µg/L	25[B]	25[G] 25[H]	1.2	-	3.5	-	2.1	-	2.2	-	1.5	1.2	-	1.9	-	2.5	-
Barium	µg/L	1,000[C]	1,000[G] 1,000[H]	70	-	54	-	37	-	35	-	13	7.2	-	7.8	-	7.9	-
Beryllium	µg/L	n/v	4[G] 4[H]	<0.5	-	<0.5	-	<0.5	-	<0.50	-	<0.5	<0.5	-	<0.5	-	<0.5	-
Boron	µg/L	5,000[B]	5,000[G] 5,000[H]	180	-	210	-	210	-	230	-	200	210	-	200	-	200	-
Cadmium	µg/L	5[C]	2.1[G] 2.1[H]	<0.1	-	<0.1	-	<0.1	-	<0.10	-	<0.1	<0.1	-	<0.1	-	<0.1	-
Calcium	µg/L	n/v	n/v	28,000	-	19,000	-	17,000	-	12,000	-	9,100	6,600	-	6,600	-	7,600	-
Chromium	µg/L	50[C]	50[G] 50[H]	<5	-	<5.0	-	<5	-	<5.0	-	<5	<5	-	<5.0	-	<5	-
Chromium (Hexavalent)	µg/L	n/v	25[G] 25[H]	<0.5	-	<0.50	-	<0.50	-	<0.50	-	-	<0.5	-	<0.50	-	<0.50	-
Cobalt	µg/L	n/v	3.8[G] 3.8[H]	<0.5	-	<0.5	-	<0.5	-	<0.50	-	<0.5	<0.5	-	<0.5	-	<0.5	-
Copper	µg/L	1,000[D]	69[G] 69[H]	<1	-	<1	-	<1	-	<1.0	-	3.3	<1	-	<1	-	<1	-
Iron	µg/L	300[D]	n/v	<100	-	<100	-	<100	-	<100	-	<100	<100	-	<100	-	<100	-
Lead	µg/L	10_c[C]	10[G] 10[H]	<0.5	-	<0.5	-	<0.5	-	<0.50	-	<0.5	<0.5	-	<0.5	-	<0.5	-
Magnesium	µg/L	n/v	n/v	11,000	-	8,200	-	6,700	-	5,100	-	2,600	2,000	-	2,200	-	2,300	-
Manganese	µg/L	50[D]	n/v	22	-	29	-	<2	-	5.4	-	6	7.1	-	7.3	-	3.7	-
Mercury	µg/L	1[C]	0.1[G] 0.29[H]	<0.1	-	<0.1	-	<0.1	-	<0.1	-	-	<0.1	-	<0.1	-	<0.1	-
Molybdenum	µg/L	n/v	70[G] 70[H]	48	-	56	-	64	-	56	-	12	7.8	-	7.5	-	7.9	-
Nickel	µg/L	n/v	100[G] 100[H]	2.4	-	1.5	-	<1	-	<1.0	-	1.3	<1	-	<1	-	<1	-
Phosphorus	µg/L	n/v	n/v	<100	-	<100	-	<100	-	<100	-	<100	<100	-	<100	-	<100	-
Potassium	µg/L	n/v	n/v	2,800	-	1,600	-	1,500	-	1,100	-	1,000	780	-	640	-	600	-
Selenium	µg/L	10[C]	10[G] 10[H]	<2	-	<2	-	<2	-	<2.0	-	<2	<2	-	<2	-	<2	-
Silicon	µg/L	n/v	n/v	3,400	-	3,600	-	3,700	-	3,300	-	3,100	3,100	-	3,300	-	3,600	-
Silver	µg/L	n/v	1.2[G] 1.2[H]	<0.1	-	<0.1	-	<0.1	-	<0.10	-	<0.1	<0.1	-	<0.1	-	<0.1	-
Sodium	µg/L	$200,000_g$[D] $20,000_g$[F]	490,000[G] 490,000[H]	**88,000[F]**	-	**83,000[F]**	-	**74,000[F]**	-	**67,000[F]**	-	**61,000[F]**	**51,000[F]**	-	**44,000[F]**	-	**50,000[F]**	-
Strontium	µg/L	n/v	n/v	540	-	460	-	440	-	350	-	120	88	-	110	-	120	-
Thallium	µg/L	n/v	2[G] 2[H]	<0.05	-	<0.05	-	<0.05	-	<0.050	-	<0.05	<0.05	-	<0.05	-	<0.05	-
Titanium	µg/L	n/v	n/v	<5	-	<5.0	-	<5	-	<5.0	-	<5	<5	-	<5.0	-	<5	-
Uranium	µg/L	20[C]	20[G] 20[H]	3.8	-	2	-	2	-	2.0	-	2.3	1.6	-	0.84	-	0.5	-
Vanadium	µg/L	n/v	6.2[G] 6.2[H]	0.51	-	0.67	-	0.93	-	2.6	-	1.2	0.81	-	1.3	-	<0.5	-
Zinc	µg/L	5,000[D]	890[G] 890[H]	<5	-	<5.0	-	<5	-	<5.0	-	7.9	<5	-	<5.0	-	38	-
Zirconium	µg/L	n/v	n/v	<1	-	<1	-	<1	-	<1.0	-	<1	<1	-	<1	-	<1	-
Polychlorinated Biphenyls																		
Aroclor 1242	µg/L	n/v	$_{s14}$[GH]	<0.05	-	<0.05	-	<0.05	-	<0.5	-	<0.05	<0.05	-	<0.05	-	<0.05	-
Aroclor 1248	µg/L	n/v	$_{s14}$[GH]	<0.05	-	<0.05	-	<0.05	-	<0.5	-	<0.05	<0.05	-	<0.05	-	<0.05	-
Aroclor 1254	µg/L	n/v	$_{s14}$[GH]	<0.05	-	<0.05	-	<0.05	-	<0.5	-	<0.05	<0.05	-	<0.05	-	<0.05	-
Aroclor 1260	µg/L	n/v	$_{s14}$[GH]	<0.05	-	<0.05	-	<0.05	-	<0.5	-	<0.05	<0.05	-	<0.05	-	<0.05	-
Polychlorinated Biphenyls (PCBs)	µg/L	3[B]	0.2_{s14}[GH]	<0.05	-	<0.05	-	<0.05	-	***<0.5***	-	<0.05	<0.05	-	<0.05	-	<0.05	-

See notes on last page

Table 7
Summary of Groundwater Analytical Results - Monitoring Wells
Clarington Transformer Station
Hydro One Networks Inc.

Sample Location				MW4-15D								MW5-14-D						
Sample Date				7-Apr-15	7-Apr-15	5-Oct-15	5-Oct-15	12-Apr-16	12-Apr-16	24-Apr-17	24-Apr-17	3-Feb-15	9-Apr-15	9-Apr-15	6-Oct-15	6-Oct-15	12-Apr-16	12-Apr-16
Sample ID				WG-160900764-20150407-RD01	WG-160900764-20150407-RD01A	WG-160900764-20151005-RD04	WG-160900764-20151005-RD04A	WG-160900764-20160412-AM01	WG-160900764-20160412-AM01A	WG-160900764-20170424-KR-05	WG-160900764-20170424-KR-05A	WG-160900764-20150203-RD02	WG-160900764-20150409-RD09	WG-160900764-20150409-RD09A	WG-160900764-2015106-RD06	WG-160900764-2015106-RD06A	WG-160900764-20160412-AM06	WG-160900764-20160412-AM06A
Sampling Company				STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC
Laboratory				MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX
Laboratory Work Order				B561683	B561683	B5K2885	B5K2885	B673021	B673021	B782020	B782020	B520805	B562741	B562741	B5K3284	B5K3284	B673021	B673021
Laboratory Sample ID				ABP939	ABP940	BCN654	BCN655	CEK201	CEK202	EGP554	EGP555	ZK6639	ABU949	ABU950	BCP426	BCP427	CEK211	CEK212
Filtered				Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC
Sample Type	Units	ODWS	Ontario SCS															
Semi-Volatile Organic Compounds																		
Phthalates																		
Bis(2-Ethylhexyl)phthalate (DEHP)	µg/L	n/v	10[G] 10[H]	4	2	2	<1	3	<1	<1	<1	-	<1	<1	<1	<1	<1	<1
Diethyl Phthalate	µg/L	n/v	30[G] 30[H]	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1	5.2	<0.1	<0.1	0.1	0.3
Dimethyl Phthalate	µg/L	n/v	30[G] 30[H]	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Polycyclic Aromatic Hydrocarbons																		
Acenaphthene	µg/L	n/v	4.1[G] 4.1[H]	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	-	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Acenaphthylene	µg/L	n/v	1[G] 1[H]	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	-	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Anthracene	µg/L	n/v	1[G] 1[H]	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(a)anthracene	µg/L	n/v	1[G] 1[H]	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(a)pyrene	µg/L	0.01[C]	0.01[G] 0.01[H]	<0.01	<0.01	<0.01	<0.01	**0.02[CGH]**	<0.01	<0.01	<0.01	-	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Benzo(b/j)fluoranthene	µg/L	n/v	0.1$_{s2}$[GH]	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(g,h,i)perylene	µg/L	n/v	0.2[G] 0.2[H]	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(k)fluoranthene	µg/L	n/v	0.1[G] 0.1[H]	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Chrysene	µg/L	n/v	0.1[G] 0.1[H]	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Dibenzo(a,h)anthracene	µg/L	n/v	0.2[G] 0.2[H]	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	µg/L	n/v	0.41[G] 0.41[H]	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	-	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Fluorene	µg/L	n/v	120[G] 120[H]	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	-	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Indeno(1,2,3-cd)pyrene	µg/L	n/v	0.2[G] 0.2[H]	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Methylnaphthalene (Total)	µg/L	n/v	3.2$_{s3}$[GH]	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	-	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28
Methylnaphthalene, 1-	µg/L	n/v	$_{s3}$[GH]	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	-	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Methylnaphthalene, 2-	µg/L	n/v	$_{s3}$[GH]	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	-	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Naphthalene	µg/L	n/v	7[G] 11[H]	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	-	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Phenanthrene	µg/L	n/v	1[G] 1[H]	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Pyrene	µg/L	n/v	4.1[G] 4.1[H]	0.08	<0.05	0.10	<0.05	0.09	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Remaining Semi-Volatile Organic Compounds																		
Biphenyl, 1,1'- (Biphenyl)	µg/L	n/v	0.5[G] 0.5[H]	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Bis(2-Chloroethyl)ether	µg/L	n/v	5[G] 5[H]	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Bis(2-Chloroisopropyl)ether	µg/L	n/v	120[G] 120[H]	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Chloroaniline, 4-	µg/L	n/v	10[G] 10[H]	<1	<1	<1	<1	<1	<1	<1	<1	-	<1	<1	<1	<1	<1	<1
Chlorophenol, 2- (ortho-Chlorophenol)	µg/L	n/v	8.9[G] 8.9[H]	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dichlorobenzidine, 3,3'-	µg/L	n/v	0.5[G] 0.5[H]	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Dichlorophenol, 2,4-	µg/L	900[C] 0.3$_t$[D]	20[G] 20[H]	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dimethylphenol, 2,4-	µg/L	n/v	59[G] 59[H]	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Dinitrophenol, 2,4-	µg/L	n/v	10[G] 10[H]	<2	<2	<2	<2	<2	<2	<2	<2	-	<2	<2	<2	<2	<2	<2
Dinitrotoluene, 2,4-	µg/L	n/v	5$_{t13}$[GH]	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	-	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Dinitrotoluene, 2,6-	µg/L	n/v	5$_{t13}$[GH]	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	-	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Pentachlorophenol	µg/L	60[C] 30$_t$[D]	30[G] 30[H]	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Phenol	µg/L	n/v	890[G] 890[H]	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Trichlorobenzene, 1,2,4-	µg/L	n/v	3[G] 70[H]	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Trichlorophenol, 2,4,5-	µg/L	n/v	8.9[G] 8.9[H]	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	-	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Trichlorophenol, 2,4,6-	µg/L	5[C] 2$_t$[D]	2[G] 2[H]	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	-	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2

See notes on last page

Table 7
Summary of Groundwater Analytical Results - Monitoring Wells
Clarington Transformer Station
Hydro One Networks Inc.

Sample Location				MW4-15D								MW5-14-D						
Sample Date				7-Apr-15	7-Apr-15	5-Oct-15	5-Oct-15	12-Apr-16	12-Apr-16	24-Apr-17	24-Apr-17	3-Feb-15	9-Apr-15	9-Apr-15	6-Oct-15	6-Oct-15	12-Apr-16	12-Apr-16
Sample ID				WG-160900764-20150407-RD01	WG-160900764-20150407-RD01A	WG-160900764-20151005-RD04	WG-160900764-20151005-RD04A	WG-160900764-20160412-AM01	WG-160900764-20160412-AM01A	WG-160900764-20170424-KR-05	WG-160900764-20170424-KR-05A	WG-160900764-20150203-RD02	WG-160900764-20150409-RD09	WG-160900764-20150409-RD09A	WG-160900764-2015106-RD06	WG-160900764-2015106-RD06A	WG-160900764-20160412-AM06	WG-160900764-20160412-AM06A
Sampling Company				STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC
Laboratory				MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX
Laboratory Work Order				B561683	B561683	B5K2885	B5K2885	B673021	B673021	B782020	B782020	B520805	B562741	B562741	B5K3284	B5K3284	B673021	B673021
Laboratory Sample ID				ABP939	ABP940	BCN654	BCN655	CEK201	CEK202	EGP554	EGP555	ZK6639	ABU949	ABU950	BCP426	BCP427	CEK211	CEK212
Filtered				Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC
Sample Type	Units	ODWS	Ontario SCS															
Volatile Organic Compounds																		
Acetone	µg/L	n/v	2,700[G] 2,700[H]	<10	-	<10	-	<10	-	<10	-	<10	<10	-	<10	-	<10	-
Bromodichloromethane	µg/L	n/v	16[G] 16[H]	<0.5	-	<0.50	-	<0.50	-	<0.50	-	<0.50	<0.5	-	<0.50	-	<0.50	-
Bromoform (Tribromomethane)	µg/L	n/v	5[G] 25[H]	<1	-	<1.0	-	<1.0	-	<1.0	-	<1.0	<1	-	<1.0	-	<1.0	-
Bromomethane (Methyl bromide)	µg/L	n/v	0.89[G] 0.89[H]	<0.5	-	<0.50	-	<0.50	-	<0.50	-	<0.50	<0.5	-	<0.50	-	<0.50	-
Carbon Tetrachloride (Tetrachloromethane)	µg/L	2[C]	0.2[G] 0.79[H]	<0.2	-	<0.20	-	<0.20	-	<0.20	-	<0.20	<0.2	-	<0.20	-	<0.20	-
Chlorobenzene (Monochlorobenzene)	µg/L	80[C] 30[D]	30[G] 30[H]	<0.2	-	<0.20	-	<0.20	-	<0.20	-	<0.20	<0.2	-	<0.20	-	<0.20	-
Chloroform (Trichloromethane)	µg/L	n/v	2[G] 2.4[H]	0.71	-	<0.20	-	<0.20	-	<0.20	-	0.20	<0.2	-	<0.20	-	<0.20	-
Dibromochloromethane	µg/L	n/v	25[G] 25[H]	<0.5	-	<0.50	-	<0.50	-	<0.50	-	<0.50	<0.5	-	<0.50	-	<0.50	-
Dichlorobenzene, 1,2-	µg/L	200[C] 3[D]	3[G] 3[H]	<0.5	-	<0.50	-	<0.50	-	<0.50	-	<0.50	<0.5	-	<0.50	-	<0.50	-
Dichlorobenzene, 1,3-	µg/L	n/v	59[G] 59[H]	<0.5	-	<0.50	-	<0.50	-	<0.50	-	<0.50	<0.5	-	<0.50	-	<0.50	-
Dichlorobenzene, 1,4-	µg/L	5[C] 1[D]	0.5[G] 1[H]	<0.5	-	<0.50	-	<0.50	-	<0.50	-	<0.50	<0.5	-	<0.50	-	<0.50	-
Dichlorodifluoromethane (Freon 12)	µg/L	n/v	590[G] 590[H]	<1	-	<1.0	-	<1.0	-	<1.0	-	<1.0	<1	-	<1.0	-	<1.0	-
Dichloroethane, 1,1-	µg/L	n/v	5[G] 5[H]	<0.2	-	<0.20	-	<0.20	-	<0.20	-	<0.20	<0.2	-	<0.20	-	<0.20	-
Dichloroethane, 1,2-	µg/L	5[B]	0.5[G] 1.6[H]	<0.5	-	<0.50	-	<0.50	-	<0.50	-	<0.50	<0.5	-	<0.50	-	<0.50	-
Dichloroethene, 1,1-	µg/L	14[C]	0.5[G] 1.6[H]	<0.2	-	<0.20	-	<0.20	-	<0.20	-	<0.20	<0.2	-	<0.20	-	<0.20	-
Dichloroethene, cis-1,2-	µg/L	n/v	1.6[G] 1.6[H]	<0.5	-	<0.50	-	<0.50	-	<0.50	-	<0.50	<0.5	-	<0.50	-	<0.50	-
Dichloroethene, trans-1,2-	µg/L	n/v	1.6[G] 1.6[H]	<0.5	-	<0.50	-	<0.50	-	<0.50	-	<0.50	<0.5	-	<0.50	-	<0.50	-
Dichloropropane, 1,2-	µg/L	n/v	0.58[G] 5[H]	<0.2	-	<0.20	-	<0.20	-	<0.20	-	<0.20	<0.2	-	<0.20	-	<0.20	-
Dichloropropene, 1,3- (sum of isomers cis + trans)	µg/L	n/v	0.5[s11 GH]	<0.5	-	<0.50	-	<0.50	-	<0.50	-	<0.50	<0.5	-	<0.50	-	<0.50	-
Dichloropropene, cis-1,3-	µg/L	n/v	[s11 GH]	<0.3	-	<0.30	-	<0.30	-	<0.30	-	<0.30	<0.3	-	<0.30	-	<0.30	-
Dichloropropene, trans-1,3-	µg/L	n/v	[s11 GH]	<0.4	-	<0.40	-	<0.40	-	<0.40	-	<0.40	<0.4	-	<0.40	-	<0.40	-
Ethylene Dibromide (Dibromoethane, 1,2-)	µg/L	n/v	0.2[G] 0.2[H]	<0.2	-	<0.20	-	<0.20	-	<0.20	-	<0.20	<0.2	-	<0.20	-	<0.20	-
Hexane (n-Hexane)	µg/L	n/v	5[G] 51[H]	<1	-	<1.0	-	<1.0	-	<1.0	-	<1.0	<1	-	<1.0	-	<1.0	-
Methyl Ethyl Ketone (MEK) (2-Butanone)	µg/L	n/v	1,800[G] 1,800[H]	<10	-	<10	-	<10	-	<10	-	<10	<10	-	<10	-	<10	-
Methyl Isobutyl Ketone (MIBK)	µg/L	n/v	640[G] 640[H]	<5	-	<5.0	-	<5.0	-	<5.0	-	<5.0	<5	-	<5.0	-	<5.0	-
Methyl tert-butyl ether (MTBE)	µg/L	n/v	15[G] 15[H]	<0.5	-	<0.50	-	<0.50	-	<0.50	-	<0.50	<0.5	-	<0.50	-	<0.50	-
Methylene Chloride (Dichloromethane)	µg/L	50[C]	26[G] 50[H]	<2	-	<2.0	-	<2.0	-	<2.0	-	<2.0	<2	-	<2.0	-	<2.0	-
Styrene	µg/L	n/v	5.4[G] 5.4[H]	<0.5	-	<0.50	-	<0.50	-	<0.50	-	<0.50	<0.5	-	<0.50	-	<0.50	-
Tetrachloroethane, 1,1,1,2-	µg/L	n/v	1.1[G] 1.1[H]	<0.5	-	<0.50	-	<0.50	-	<0.50	-	<0.50	<0.5	-	<0.50	-	<0.50	-
Tetrachloroethane, 1,1,2,2-	µg/L	n/v	0.5[G] 1[H]	<0.5	-	<0.50	-	<0.50	-	<0.50	-	<0.50	<0.5	-	<0.50	-	<0.50	-
Tetrachloroethene (PCE)	µg/L	30[C]	0.5[G] 1.6[H]	<0.2	-	<0.20	-	<0.20	-	<0.20	-	<0.20	<0.2	-	<0.20	-	<0.20	-
Trichloroethane, 1,1,1-	µg/L	n/v	23[G] 200[H]	<0.2	-	<0.20	-	<0.20	-	<0.20	-	<0.20	<0.2	-	<0.20	-	<0.20	-
Trichloroethane, 1,1,2-	µg/L	n/v	0.5[G] 4.7[H]	<0.5	-	<0.50	-	<0.50	-	<0.50	-	<0.50	<0.5	-	<0.50	-	<0.50	-
Trichloroethene (TCE)	µg/L	5[C]	0.5[G] 1.6[H]	<0.2	-	<0.20	-	<0.20	-	<0.20	-	<0.20	<0.2	-	<0.20	-	<0.20	-
Trichlorofluoromethane (Freon 11)	µg/L	n/v	150[G] 150[H]	<0.5	-	<0.50	-	<0.50	-	<0.50	-	<0.50	<0.5	-	<0.50	-	<0.50	-
Trihalomethanes	µg/L	100[e C]	n/v	-	-	<0.20	-	-	-	-	-	-	-	-	<0.20	-	-	-
Vinyl Chloride	µg/L	1[C]	0.5[G] 0.5[H]	<0.2	-	<0.20	-	<0.20	-	<0.20	-	<0.20	<0.2	-	<0.20	-	<0.20	-

See notes on last page

Table 7
Summary of Groundwater Analytical Results - Monitoring Wells
Clarington Transformer Station
Hydro One Networks Inc.

Sample Location				MW5-14-D (Contd.)						MW5-14-I									
Sample Date				2-Nov-16	2-Nov-16	27-Apr-17	27-Apr-17	18-Oct-17	18-Oct-17	28-Oct-14	4-Feb-15	4-Feb-15	10-Apr-15	10-Apr-15	6-Oct-15	6-Oct-15	12-Apr-16	12-Apr-16
Sample ID				WG-160900764-20161102-AM09	WG-160900764-20161102-AM09A	WG-160900764-20170427-KR-16	WG-160900764-20170427-KR-16A	WG-160900764-20171018-CF11	WG-160900764-20171018-CF11A	WG-160900764-20141028-HB01	WG-160900764-20150204-RD04	WG-160900764-20150204-RD04A	WG-160900764-20150410-RD08	WG-160900764-20150410-RD08A	WG-160900764-2015106-RD09	WG-160900764-2015106-RD09A	WG-160900764-20160412-AM05	WG-160900764-20160412-AM05A
Sampling Company				STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC
Laboratory				MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX
Laboratory Work Order				B6N8983	B6N8983	B785281	B785281	B7N2183	B7N2183	B4K2141	B520805	B520805	B563828	B563828	B5K3284	B5K3284	B673021	B673021
Laboratory Sample ID				DJO970	DJO971	EHF910	EHF911	FJF447	FJF448	YE8480	ZK6645	ZK6646	ABZ558	ABZ559	BCP432	BCP433	CEK209	CEK210
Filtered				Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC
Sample Type	Units	ODWS	Ontario SCS															
General Chemistry																		
Acidity	mg/L	n/v	n/v	<10	-	<10	-	<5.0	-	<10	<10	-	<10	-	NA	-	<10	-
Alkalinity, Bicarbonate (as CaCO3)	mg/L	n/v	n/v	130	-	180	-	150	-	390	150	-	240	-	130	-	100	-
Alkalinity, Carbonate (as CaCO3)	mg/L	n/v	n/v	2.6	-	5.6	-	4.8	-	10	3.4	-	3.3	-	<1.0	-	1.4	-
Alkalinity, Total (as CaCO3)	mg/L	30-500[E]	n/v	130	-	180	-	160	-	330	150	-	240	-	130	-	100	-
Ammonia (as N)	mg/L	n/v	n/v	<0.050	-	<0.050	-	<0.050	-	0.14	<0.050	-	0.053	-	<0.050	-	<0.050	-
Anion Sum	meq/L	n/v	n/v	3.50	-	4.29	-	3.72	-	7.89	3.81	-	5.48	-	3.22	-	2.69	-
Cation Sum	meq/L	n/v	n/v	2.51	-	2.53	-	2.45	-	5.10	3.28	-	3.01	-	2.72	-	2.57	-
Chloride	mg/L	250[D]	790[G] 790[H]	2.6	-	2.1	-	1.7	-	12	3	-	3	-	3.5	-	3.3	-
Cyanide (Free)	µg/L	200[C]	52[G] 52[H]	<1	-	<1	-	<1	-	<2	<2	-	<2	-	<2	-	<2	-
Dissolved Organic Carbon (DOC)	mg/L	5[D]	n/v	2.0	-	1.2	-	1.1	-	3.4	2.5	-	2.0	-	1.2	-	1.0	-
Electrical Conductivity, Lab	µmhos/cm	n/v	n/a[GH]	270	-	250	-	230	-	440	310	-	280	-	250	-	240	-
Fluoride	mg/L	1.5_b[C]	n/v	1.3	-	1.3	-	1.3	-	0.98	1.3	-	1.4	-	1.5	-	**1.6[C]**	-
Hardness (as CaCO3)	mg/L	80-100[E]	n/v	**25[E]**	-	**23[E]**	-	**21[E]**	-	**51[E]**	**22[E]**	-	**23[E]**	-	**21[E]**	-	**18[E]**	-
Ion Balance	%	n/v	n/v	16.4	-	25.8	-	20.6	-	21.5	7.58	-	29.0	-	8.38	-	NC	-
Langelier Index (at 20 C)	none	n/v	n/v	-0.210	-	0.117	-	0.0270	-	0.502	-0.0460	-	-0.0670	-	-0.687	-	-0.447	-
Langelier Index (at 4 C)	none	n/v	n/v	-0.458	-	-0.133	-	-0.222	-	0.258	-0.295	-	-0.315	-	-0.937	-	-0.697	-
Nitrate (as N)	mg/L	10.0_d[C]	n/v	<0.10	-	<0.10	-	<0.10	-	<0.10	<0.10	-	<0.5	-	<0.10	-	<0.10	-
Nitrate + Nitrite (as N)	mg/L	10.0_d[C]	n/v	<0.10	-	<0.10	-	<0.10	-	-	<0.10	-	<0.5	-	<0.10	-	<0.10	-
Nitrite (as N)	mg/L	1.0_d[C]	n/v	<0.010	-	<0.010	-	<0.010	-	0.014	0.034	-	<0.05	-	0.011	-	<0.010	-
Orthophosphate(as P)	mg/L	n/v	n/v	0.014	-	0.011	-	0.011	-	0.34	0.031	-	0.015	-	<0.010	-	0.012	-
pH	S.U.	6.5-8.5[E]	n/v	8.32	-	**8.53[E]**	-	**8.53[E]**	-	8.44	8.39	-	8.17	-	7.78	-	8.17	-
Saturation pH (at 20 C)	none	n/v	n/v	8.53	-	8.41	-	8.50	-	7.94	8.43	-	8.24	-	8.47	-	8.62	-
Saturation pH (at 4 C)	none	n/v	n/v	8.78	-	8.66	-	8.75	-	8.18	8.68	-	8.48	-	8.72	-	8.87	-
Sulfate	mg/L	500_h[D]	n/v	34	-	25	-	22	-	46	29	-	23	-	22	-	20	-
Total Dissolved Solids	mg/L	500[D]	n/v	444	-	264	-	255	-	**1,780[D]**	266	-	438	-	232	-	160	-
Total Dissolved Solids (Calculated)	mg/L	500[D]	n/v	180	-	200	-	180	-	370	200	-	240	-	170	-	150	-
Total Organic Carbon	mg/L	n/v	n/v	14	-	2.9	-	1.9	-	28	3.0	-	3.3	-	2.6	-	1.5	-
Total Suspended Solids	mg/L	n/v	n/v	890	-	74	-	90	-	1,100	19	-	430	-	43	-	<10	-
Turbidity, Lab	NTU	5_j[D,E]	n/v	**140[D]**	-	**260[D]**	-	**210[D]**	-	**2,900[D]**	**150[D]**	-	**580[D]**	-	**120[D]**	-	**29[D]**	-
BTEX and Petroleum Hydrocarbons																		
Benzene	µg/L	1[C]	0.5[G] 5[H]	<0.20	-	<0.20	-	<0.20	-	<0.20	<0.20	-	<0.2	-	<0.20	-	<0.20	-
Toluene	µg/L	24[D]	24[G] 22[H]	<0.20	-	<0.20	-	<0.20	-	<0.20	<0.20	-	<0.2	-	<0.20	-	<0.20	-
Ethylbenzene	µg/L	2.4[D]	2.4[G] 2.4[H]	<0.20	-	<0.20	-	<0.20	-	<0.20	<0.20	-	<0.2	-	<0.20	-	<0.20	-
Xylene, m & p-	µg/L	300_{s1}[D]	[GH]	<0.20	-	<0.20	-	<0.20	-	<0.20	<0.20	-	<0.2	-	<0.20	-	<0.20	-
Xylene, o-	µg/L	300_{s1}[D]	[GH]	<0.20	-	<0.20	-	<0.20	-	<0.20	<0.20	-	<0.2	-	<0.20	-	<0.20	-
Xylenes, Total	µg/L	300[D]	72_{s1}[G] 300_{s1}[H]	<0.20	-	<0.20	-	<0.20	-	<0.20	<0.20	-	<0.2	-	<0.20	-	<0.20	-
PHC F1 (C6-C10 range)	µg/L	n/v	[GH]	<25	-	<25	-	<25	-	<25	<25	-	<25	-	<25	-	<25	-
PHC F1 (C6-C10 range) minus BTEX	µg/L	n/v	420_{s7}[GH]	<25	-	<25	-	<25	-	<25	<25	-	<25	-	<25	-	<25	-
PHC F2 (>C10-C16 range)	µg/L	n/v	150_{s15}[GH]	<100	-	<100	-	<100	-	<100	<100	-	<100	-	<100	-	<100	-
PHC F3 (>C16-C34 range)	µg/L	n/v	500_{s8}[GH]	<200	-	<200	-	<200	-	<200	<200	-	<200	-	<200	-	<200	-
PHC F4 (>C34-C50 range)	µg/L	n/v	500_{s10}[GH]	<200	-	<200	-	<200	-	<200	<200	-	<200	-	<200	-	<200	-
Chromatogram to baseline at C50	none	n/v	n/v	YES	-	YES	-	YES	-	YES	YES	-	YES	-	YES	-	YES	-

See notes on last page

Table 7
Summary of Groundwater Analytical Results - Monitoring Wells
Clarington Transformer Station
Hydro One Networks Inc.

Sample Location				MW5-14-D (Contd.)						MW5-14-I									
Sample Date				2-Nov-16	2-Nov-16	27-Apr-17	27-Apr-17	18-Oct-17	18-Oct-17	28-Oct-14	4-Feb-15	4-Feb-15	10-Apr-15	10-Apr-15	6-Oct-15	6-Oct-15	12-Apr-16	12-Apr-16
Sample ID				WG-160900764-20161102-AM09	WG-160900764-20161102-AM09A	WG-160900764-20170427-KR-16	WG-160900764-20170427-KR-16A	WG-160900764-20171018-CF11	WG-160900764-20171018-CF11A	WG-160900764-20141028-HB01	WG-160900764-20150204-RD04	WG-160900764-20150204-RD04A	WG-160900764-20150410-RD08	WG-160900764-20150410-RD08A	WG-160900764-2015106-RD09	WG-160900764-2015106-RD09A	WG-160900764-20160412-AM05	WG-160900764-20160412-AM05A
Sampling Company				STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC
Laboratory				MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX
Laboratory Work Order				B6N8983	B6N8983	B785281	B785281	B7N2183	B7N2183	B4K2141	B520805	B520805	B563828	B563828	B5K3284	B5K3284	B673021	B673021
Laboratory Sample ID				DJO970	DJO971	EHF910	EHF911	FJF447	FJF448	YE8480	ZK6645	ZK6646	ABZ558	ABZ559	BCP432	BCP433	CEK209	CEK210
Filtered				Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC
Sample Type	Units	ODWS	Ontario SCS															
Metals																		
Aluminum	µg/L	100[E]	n/v	31	-	28	-	33	-	**270[E]**	**110[E]**	**110[E]**	78	-	86	-	86	-
Antimony	µg/L	6[B]	6[G] 6[H]	<0.5	-	<0.50	-	<0.5	-	1.4	1.1	1.1	1.6	-	0.7	-	<0.5	-
Arsenic	µg/L	25[B]	25[G] 25[H]	1.5	-	1.6	-	1.8	-	<1.0	2.1	2	1.8	-	1.7	-	2.2	-
Barium	µg/L	1,000[C]	1,000[G] 1,000[H]	7.6	-	5.7	-	5.2	-	30	8.6	8.1	7.8	-	8.7	-	7.4	-
Beryllium	µg/L	n/v	4[G] 4[H]	<0.5	-	<0.50	-	<0.5	-	<0.50	<0.5	<0.5	<0.5	-	<0.5	-	<0.5	-
Boron	µg/L	5,000[B]	5,000[G] 5,000[H]	210	-	220	-	230	-	180	210	190	210	-	200	-	220	-
Cadmium	µg/L	5[C]	2.1[G] 2.1[H]	<0.1	-	<0.10	-	<0.1	-	<0.10	<0.1	<0.1	<0.1	-	<0.1	-	<0.1	-
Calcium	µg/L	n/v	n/v	6,300	-	5,400	-	5,100	-	15,000	5,900	6,200	6,900	-	6,600	-	5,400	-
Chromium	µg/L	50[C]	50[G] 50[H]	<5	-	<5.0	-	<5	-	<5.0	<5	<5	<5	-	<5.0	-	<5	-
Chromium (Hexavalent)	µg/L	n/v	25[G] 25[H]	<0.50	-	<0.50	-	<0.50	-	<0.50	<0.50	-	<0.5	-	<0.50	-	<0.50	-
Cobalt	µg/L	n/v	3.8[G] 3.8[H]	<0.5	-	<0.50	-	<0.5	-	<0.50	<0.5	<0.5	<0.5	-	<0.5	-	<0.5	-
Copper	µg/L	1,000[D]	69[G] 69[H]	<1	-	<1.0	-	<1	-	3.3	2	1.9	1.1	-	<1	-	<1	-
Iron	µg/L	300[D]	n/v	<100	-	<100	-	<100	-	<100	<100	<100	<100	-	<100	-	<100	-
Lead	µg/L	10[C]	10[G] 10[H]	<0.5	-	<0.50	-	<0.5	-	<0.50	<0.5	<0.5	<0.5	-	<0.5	-	<0.5	-
Magnesium	µg/L	n/v	n/v	2,100	-	2,200	-	2,100	-	3,300	1,500	1,600	1,400	-	1,100	-	1,200	-
Manganese	µg/L	50[D]	n/v	3.8	-	2.4	-	3.5	-	5.5	<2	<2	2.3	-	3.3	-	<2	-
Mercury	µg/L	1[C]	0.1[G] 0.29[H]	<0.1	-	<0.1	-	<0.1	-	<0.1	-	-	<0.1	-	<0.1	-	<0.1	-
Molybdenum	µg/L	n/v	70[G] 70[H]	5.6	-	5.1	-	4.4	-	33	13	15	14	-	11	-	10	-
Nickel	µg/L	n/v	100[G] 100[H]	<1	-	<1.0	-	<1	-	<1.0	<1	<1	<1	-	1.4	-	<1	-
Phosphorus	µg/L	n/v	n/v	<100	-	<100	-	<100	-	<100	<100	<100	<100	-	<100	-	<100	-
Potassium	µg/L	n/v	n/v	500	-	490	-	460	-	1,900	920	960	850	-	740	-	700	-
Selenium	µg/L	10[C]	10[G] 10[H]	<2	-	<2.0	-	<2	-	<2.0	<2	<2	<2	-	<2	-	<2	-
Silicon	µg/L	n/v	n/v	3,400	-	3,400	-	3,500	-	1,300	2,200	2,200	2,200	-	2,500	-	2,800	-
Silver	µg/L	n/v	1.2[G] 1.2[H]	<0.1	-	<0.10	-	<0.1	-	<0.10	<0.1	<0.1	<0.1	-	<0.1	-	<0.1	-
Sodium	µg/L	200,000$_g$[D] 20,000$_g$[F]	490,000[G] 490,000[H]	**46,000[F]**	-	**47,000[F]**	-	**46,000[F]**	-	**92,000[F]**	**65,000[F]**	**64,000[F]**	**58,000[F]**	-	**52,000[F]**	-	**50,000[F]**	-
Strontium	µg/L	n/v	n/v	110	-	110	-	110	-	150	80	86	84	-	69	-	78	-
Thallium	µg/L	n/v	2[G] 2[H]	<0.05	-	<0.050	-	<0.05	-	<0.050	<0.05	<0.05	<0.05	-	<0.05	-	<0.05	-
Titanium	µg/L	n/v	n/v	<5	-	<5.0	-	<5	-	<5.0	<5	<5	<5	-	<5.0	-	<5	-
Uranium	µg/L	20[C]	20[G] 20[H]	0.43	-	0.44	-	0.35	-	4.0	3.8	4	3.7	-	2.6	-	1.7	-
Vanadium	µg/L	n/v	6.2[G] 6.2[H]	<0.5	-	<0.50	-	<0.5	-	2.0	1.9	2.1	1.8	-	2.1	-	1.8	-
Zinc	µg/L	5,000[D]	890[G] 890[H]	<5	-	<5.0	-	<5	-	<5.0	<5	<5	<5	-	8.2	-	<5	-
Zirconium	µg/L	n/v	n/v	<1	-	<1.0	-	<1	-	<1.0	<1	<1	<1	-	<1	-	<1	-
Polychlorinated Biphenyls																		
Aroclor 1242	µg/L	n/v	$_{s14}$[GH]	<0.05	-	<0.05	-	<0.05	-	<0.5	<0.05	-	<0.05	-	<0.05	-	<0.05	-
Aroclor 1248	µg/L	n/v	$_{s14}$[GH]	<0.05	-	<0.05	-	<0.05	-	<0.5	<0.05	-	<0.05	-	<0.05	-	<0.05	-
Aroclor 1254	µg/L	n/v	$_{s14}$[GH]	<0.05	-	<0.05	-	<0.05	-	<0.5	<0.05	-	<0.05	-	<0.05	-	<0.05	-
Aroclor 1260	µg/L	n/v	$_{s14}$[GH]	<0.05	-	<0.05	-	<0.05	-	<0.5	<0.05	-	<0.05	-	<0.05	-	<0.05	-
Polychlorinated Biphenyls (PCBs)	µg/L	3[B]	0.2$_{s14}$[GH]	<0.05	-	<0.05	-	<0.05	-	***<0.5***	<0.05	-	<0.05	-	<0.05	-	<0.05	-

See notes on last page

Table 7
Summary of Groundwater Analytical Results - Monitoring Wells
Clarington Transformer Station
Hydro One Networks Inc.

Sample Location				MW5-14-D (Contd.)						MW5-14-I								
Sample Date				2-Nov-16	2-Nov-16	27-Apr-17	27-Apr-17	18-Oct-17	18-Oct-17	28-Oct-14	4-Feb-15	4-Feb-15	10-Apr-15	10-Apr-15	6-Oct-15	6-Oct-15	12-Apr-16	12-Apr-16
Sample ID				WG-160900764-20161102-AM09	WG-160900764-20161102-AM09A	WG-160900764-20170427-KR-16	WG-160900764-20170427-KR-16A	WG-160900764-20171018-CF11	WG-160900764-20171018-CF11A	WG-160900764-20141028-HB01	WG-160900764-20150204-RD04	WG-160900764-20150204-RD04A	WG-160900764-20150410-RD08	WG-160900764-20150410-RD08A	WG-160900764-2015106-RD09	WG-160900764-2015106-RD09A	WG-160900764-20160412-AM05	WG-160900764-20160412-AM05A
Sampling Company				STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC
Laboratory				MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX
Laboratory Work Order				B6N8983	B6N8983	B785281	B785281	B7N2183	B7N2183	B4K2141	B520805	B520805	B563828	B563828	B5K3284	B5K3284	B673021	B673021
Laboratory Sample ID				DJO970	DJO971	EHF910	EHF911	FJF447	FJF448	YE8480	ZK6645	ZK6646	ABZ558	ABZ559	BCP432	BCP433	CEK209	CEK210
Filtered				Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC
Sample Type	Units	ODWS	Ontario SCS															
Semi-Volatile Organic Compounds																		
Phthalates																		
Bis(2-Ethylhexyl)phthalate (DEHP)	µg/L	n/v	10[G] 10[H]	3	<1	<1	<1	<1	<1	7	<1	<1	<1	<1	<1	<1	6	<1
Diethyl Phthalate	µg/L	n/v	30[G] 30[H]	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	2.0	<0.1	<0.1	0.4	0.5
Dimethyl Phthalate	µg/L	n/v	30[G] 30[H]	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Polycyclic Aromatic Hydrocarbons																		
Acenaphthene	µg/L	n/v	4.1[G] 4.1[H]	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Acenaphthylene	µg/L	n/v	1[G] 1[H]	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Anthracene	µg/L	n/v	1[G] 1[H]	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(a)anthracene	µg/L	n/v	1[G] 1[H]	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(a)pyrene	µg/L	0.01[C]	0.01[G] 0.01[H]	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Benzo(b/j)fluoranthene	µg/L	n/v	0.1_{s2}[GH]	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(g,h,i)perylene	µg/L	n/v	0.2[G] 0.2[H]	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(k)fluoranthene	µg/L	n/v	0.1[G] 0.1[H]	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Chrysene	µg/L	n/v	0.1[G] 0.1[H]	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Dibenzo(a,h)anthracene	µg/L	n/v	0.2[G] 0.2[H]	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	µg/L	n/v	0.41[G] 0.41[H]	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Fluorene	µg/L	n/v	120[G] 120[H]	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Indeno(1,2,3-cd)pyrene	µg/L	n/v	0.2[G] 0.2[H]	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Methylnaphthalene (Total)	µg/L	n/v	3.2_{s3}[GH]	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28
Methylnaphthalene, 1-	µg/L	n/v	$_{s3}$[GH]	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Methylnaphthalene, 2-	µg/L	n/v	$_{s3}$[GH]	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Naphthalene	µg/L	n/v	7[G] 11[H]	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Phenanthrene	µg/L	n/v	1[G] 1[H]	0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Pyrene	µg/L	n/v	4.1[G] 4.1[H]	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Remaining Semi-Volatile Organic Compounds																		
Biphenyl, 1,1'- (Biphenyl)	µg/L	n/v	0.5[G] 0.5[H]	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Bis(2-Chloroethyl)ether	µg/L	n/v	5[G] 5[H]	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Bis(2-Chloroisopropyl)ether	µg/L	n/v	120[G] 120[H]	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Chloroaniline, 4-	µg/L	n/v	10[G] 10[H]	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chlorophenol, 2- (ortho-Chlorophenol)	µg/L	n/v	8.9[G] 8.9[H]	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dichlorobenzidine, 3,3'-	µg/L	n/v	0.5[G] 0.5[H]	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Dichlorophenol, 2,4-	µg/L	900[C] 0.3_{i}[D]	20[G] 20[H]	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dimethylphenol, 2,4-	µg/L	n/v	59[G] 59[H]	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Dinitrophenol, 2,4-	µg/L	n/v	10[G] 10[H]	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Dinitrotoluene, 2,4-	µg/L	n/v	5_{i13}[GH]	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Dinitrotoluene, 2,6-	µg/L	n/v	5_{i13}[GH]	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Pentachlorophenol	µg/L	60[C] 30_{i}[D]	30[G] 30[H]	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Phenol	µg/L	n/v	890[G] 890[H]	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Trichlorobenzene, 1,2,4-	µg/L	n/v	3[G] 70[H]	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Trichlorophenol, 2,4,5-	µg/L	n/v	8.9[G] 8.9[H]	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Trichlorophenol, 2,4,6-	µg/L	5[C] 2_{i}[D]	2[G] 2[H]	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2

See notes on last page

Table 7
Summary of Groundwater Analytical Results - Monitoring Wells
Clarington Transformer Station
Hydro One Networks Inc.

Sample Location				MW5-14-D (Contd.)						MW5-14-I									
Sample Date				2-Nov-16	2-Nov-16	27-Apr-17	27-Apr-17	18-Oct-17	18-Oct-17	28-Oct-14	4-Feb-15	4-Feb-15	10-Apr-15	10-Apr-15	6-Oct-15	6-Oct-15	12-Apr-16	12-Apr-16
Sample ID				WG-160900764-20161102-AM09	WG-160900764-20161102-AM09A	WG-160900764-20170427-KR-16	WG-160900764-20170427-KR-16A	WG-160900764-20171018-CF11	WG-160900764-20171018-CF11A	WG-160900764-20141028-HB01	WG-160900764-20150204-RD04	WG-160900764-20150204-RD04A	WG-160900764-20150410-RD08	WG-160900764-20150410-RD08A	WG-160900764-2015106-RD09	WG-160900764-2015106-RD09A	WG-160900764-20160412-AM05	WG-160900764-20160412-AM05A
Sampling Company				STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC
Laboratory				MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX
Laboratory Work Order				B6N8983	B6N8983	B785281	B785281	B7N2183	B7N2183	B4K2141	B520805	B520805	B563828	B563828	B5K3284	B5K3284	B673021	B673021
Laboratory Sample ID				DJO970	DJO971	EHF910	EHF911	FJF447	FJF448	YE8480	ZK6645	ZK6646	ABZ558	ABZ559	BCP432	BCP433	CEK209	CEK210
Filtered				Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC
Sample Type	Units	ODWS	Ontario SCS															
Volatile Organic Compounds																		
Acetone	µg/L	n/v	2,700[G] 2,700[H]	<10	-	<10	-	<10	-	<10	<10	-	<10	-	<10	-	<10	-
Bromodichloromethane	µg/L	n/v	16[G] 16[H]	<0.50	-	<0.50	-	<0.50	-	<0.50	<0.50	-	<0.5	-	<0.50	-	<0.50	-
Bromoform (Tribromomethane)	µg/L	n/v	5[G] 25[H]	<1.0	-	<1.0	-	<1.0	-	<1.0	<1.0	-	<1	-	<1.0	-	<1.0	-
Bromomethane (Methyl bromide)	µg/L	n/v	0.89[G] 0.89[H]	<0.50	-	<0.50	-	<0.50	-	<0.50	<0.50	-	<0.5	-	<0.50	-	<0.50	-
Carbon Tetrachloride (Tetrachloromethane)	µg/L	2[C]	0.2[G] 0.79[H]	<0.20	-	<0.20	-	<0.20	-	<0.20	<0.20	-	<0.2	-	<0.20	-	<0.20	-
Chlorobenzene (Monochlorobenzene)	µg/L	80[C] 30$_l$[D]	30[G] 30[H]	<0.20	-	<0.20	-	<0.20	-	<0.20	<0.20	-	<0.2	-	<0.20	-	<0.20	-
Chloroform (Trichloromethane)	µg/L	n/v	2[G] 2.4[H]	<0.20	-	<0.20	-	<0.20	-	0.37	<0.20	-	<0.2	-	<0.20	-	<0.20	-
Dibromochloromethane	µg/L	n/v	25[G] 25[H]	<0.50	-	<0.50	-	<0.50	-	<0.50	<0.50	-	<0.5	-	<0.50	-	<0.50	-
Dichlorobenzene, 1,2-	µg/L	200[C] 3$_l$[D]	3[G] 3[H]	<0.50	-	<0.50	-	<0.50	-	<0.50	<0.50	-	<0.5	-	<0.50	-	<0.50	-
Dichlorobenzene, 1,3-	µg/L	n/v	59[G] 59[H]	<0.50	-	<0.50	-	<0.50	-	<0.50	<0.50	-	<0.5	-	<0.50	-	<0.50	-
Dichlorobenzene, 1,4-	µg/L	5[C] 1$_t$[D]	0.5[G] 1[H]	<0.50	-	<0.50	-	<0.50	-	<0.50	<0.50	-	<0.5	-	<0.50	-	<0.50	-
Dichlorodifluoromethane (Freon 12)	µg/L	n/v	590[G] 590[H]	<1.0	-	<1.0	-	<1.0	-	<1.0	<1.0	-	<1	-	<1.0	-	<1.0	-
Dichloroethane, 1,1-	µg/L	n/v	5[G] 5[H]	<0.20	-	<0.20	-	<0.20	-	<0.20	<0.20	-	<0.2	-	<0.20	-	<0.20	-
Dichloroethane, 1,2-	µg/L	5[B]	0.5[G] 1.6[H]	<0.50	-	<0.50	-	<0.50	-	<0.50	<0.50	-	<0.5	-	<0.50	-	<0.50	-
Dichloroethene, 1,1-	µg/L	14[C]	0.5[G] 1.6[H]	<0.20	-	<0.20	-	<0.20	-	<0.20	<0.20	-	<0.2	-	<0.20	-	<0.20	-
Dichloroethene, cis-1,2-	µg/L	n/v	1.6[G] 1.6[H]	<0.50	-	<0.50	-	<0.50	-	<0.50	<0.50	-	<0.5	-	<0.50	-	<0.50	-
Dichloroethene, trans-1,2-	µg/L	n/v	1.6[G] 1.6[H]	<0.50	-	<0.50	-	<0.50	-	<0.50	<0.50	-	<0.5	-	<0.50	-	<0.50	-
Dichloropropane, 1,2-	µg/L	n/v	0.58[G] 5[H]	<0.20	-	<0.20	-	<0.20	-	<0.20	<0.20	-	<0.2	-	<0.20	-	<0.20	-
Dichloropropene, 1,3- (sum of isomers cis + trans)	µg/L	n/v	0.5$_{t11}$[GH]	<0.50	-	<0.50	-	<0.50	-	<0.50	<0.50	-	<0.5	-	<0.50	-	<0.50	-
Dichloropropene, cis-1,3-	µg/L	n/v	$_{t11}$[GH]	<0.30	-	<0.30	-	<0.30	-	<0.30	<0.30	-	<0.3	-	<0.30	-	<0.30	-
Dichloropropene, trans-1,3-	µg/L	n/v	$_{t11}$[GH]	<0.40	-	<0.40	-	<0.40	-	<0.40	<0.40	-	<0.4	-	<0.40	-	<0.40	-
Ethylene Dibromide (Dibromoethane, 1,2-)	µg/L	n/v	0.2[G] 0.2[H]	<0.20	-	<0.20	-	<0.20	-	<0.20	<0.20	-	<0.2	-	<0.20	-	<0.20	-
Hexane (n-Hexane)	µg/L	n/v	5[G] 51[H]	<1.0	-	<1.0	-	<1.0	-	<1.0	<1.0	-	<1	-	<1.0	-	<1.0	-
Methyl Ethyl Ketone (MEK) (2-Butanone)	µg/L	n/v	1,800[G] 1,800[H]	<10	-	<10	-	<10	-	<10	<10	-	<10	-	<10	-	<10	-
Methyl Isobutyl Ketone (MIBK)	µg/L	n/v	640[G] 640[H]	<5.0	-	<5.0	-	<5.0	-	<5.0	<5.0	-	<5	-	<5.0	-	<5.0	-
Methyl tert-butyl ether (MTBE)	µg/L	n/v	15[G] 15[H]	<0.50	-	<0.50	-	<0.50	-	<0.50	<0.50	-	<0.5	-	<0.50	-	<0.50	-
Methylene Chloride (Dichloromethane)	µg/L	50[C]	26[G] 50[H]	<2.0	-	<2.0	-	<2.0	-	<2.0	<2.0	-	<2	-	<2.0	-	<2.0	-
Styrene	µg/L	n/v	5.4[G] 5.4[H]	<0.50	-	<0.50	-	<0.50	-	<0.50	<0.50	-	<0.5	-	<0.50	-	<0.50	-
Tetrachloroethane, 1,1,1,2-	µg/L	n/v	1.1[G] 1.1[H]	<0.50	-	<0.50	-	<0.50	-	<0.50	<0.50	-	<0.5	-	<0.50	-	<0.50	-
Tetrachloroethane, 1,1,2,2-	µg/L	n/v	0.5[G] 1[H]	<0.50	-	<0.50	-	<0.50	-	<0.50	<0.50	-	<0.5	-	<0.50	-	<0.50	-
Tetrachloroethene (PCE)	µg/L	30[C]	0.5[G] 1.6[H]	<0.20	-	<0.20	-	<0.20	-	<0.20	<0.20	-	<0.2	-	<0.20	-	<0.20	-
Trichloroethane, 1,1,1-	µg/L	n/v	23[G] 200[H]	<0.20	-	<0.20	-	<0.20	-	<0.20	<0.20	-	<0.2	-	<0.20	-	<0.20	-
Trichloroethane, 1,1,2-	µg/L	n/v	0.5[G] 4.7[H]	<0.50	-	<0.50	-	<0.50	-	<0.50	<0.50	-	<0.5	-	<0.50	-	<0.50	-
Trichloroethene (TCE)	µg/L	5[C]	0.5[G] 1.6[H]	<0.20	-	<0.20	-	<0.20	-	<0.20	<0.20	-	<0.2	-	<0.20	-	<0.20	-
Trichlorofluoromethane (Freon 11)	µg/L	n/v	150[G] 150[H]	<0.50	-	<0.50	-	<0.50	-	<0.50	<0.50	-	<0.5	-	<0.50	-	<0.50	-
Trihalomethanes	µg/L	100$_e$[C]	n/v	-	-	-	-	<1.0	-	-	-	-	-	-	<0.20	-	-	-
Vinyl Chloride	µg/L	1[C]	0.5[G] 0.5[H]	<0.20	-	<0.20	-	<0.20	-	<0.20	<0.20	-	<0.2	-	<0.20	-	<0.20	-

See notes on last page

Table 7
Summary of Groundwater Analytical Results - Monitoring Wells
Clarington Transformer Station
Hydro One Networks Inc.

Sample Location				MW5-14-I (Contd.)						MW5-14-S								
Sample Date				2-Nov-16	2-Nov-16	24-Apr-17	24-Apr-17	17-Oct-17	17-Oct-17	9-Oct-14	23-Dec-14	23-Dec-14	9-Apr-15	9-Apr-15	9-Apr-15	9-Apr-15	6-Oct-15	6-Oct-15
Sample ID				WG-160900764-20161102-AM12	WG-160900764-20161102-AM12A	WG-160900764-20170424-KR-01	WG-160900764-20170424-KR-01A	WG-160900764-20171017-CF10	WG-160900764-20171017-CF10A	WG-160900764-20141009-AD01	WG-160900764-20141223-MF01	WG-160900764-20141223-MF01A	WG-160900764-20150409-RD06	WG-160900764-20150409-RD07	WG-160900764-20150409-RD06A	WG-160900764-20150409-RD07A	WG-160900764-2015106-RD05	WG-160900764-2015106-RD05A
Sampling Company				STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC
Laboratory				MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX
Laboratory Work Order				B6N8983	B6N8983	B782020	B782020	B7N0947	B7N0947	B4I9252	B4O2825	B4O2825	B562741	B562741	B562741	B562741	B5K3284	B5K3284
Laboratory Sample ID				DJO976	DJO977	EGP546	EGP547	FIY631	FIY632	XY3182	YY9889	YY9890	ABU945	ABU947	ABU946	ABU948	BCP424	BCP425
Filtered				Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Field Filtered Metals	Lab Filtered SVOC	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC
Sample Type	Units	ODWS	Ontario SCS											Field Duplicate		Field Duplicate		
General Chemistry																		
Acidity	mg/L	n/v	n/v	<10	-	<10	-	<5.0	-	12	-	-	<10	13	-	-	26	-
Alkalinity, Bicarbonate (as CaCO3)	mg/L	n/v	n/v	90	-	91	-	88	-	200	230	-	230	250	-	-	240	-
Alkalinity, Carbonate (as CaCO3)	mg/L	n/v	n/v	1.3	-	1.9	-	2.9	-	1.3	1.8	-	1.5	1.6	-	-	<1.0	-
Alkalinity, Total (as CaCO3)	mg/L	30-500[E]	n/v	92	-	93	-	91	-	210	230	-	230	250	-	-	240	-
Ammonia (as N)	mg/L	n/v	n/v	<0.050	-	<0.050	-	<0.050	-	0.17	-	-	<0.05	0.051	-	-	<0.050	-
Anion Sum	meq/L	n/v	n/v	2.37	-	2.42	-	2.37	-	5.70	6.12	-	6.13	6.58	-	-	6.44	-
Cation Sum	meq/L	n/v	n/v	2.28	-	2.12	-	2.25	-	5.47	6.16	-	5.73	5.75	-	-	6.42	-
Chloride	mg/L	250[D]	790[G] 790[H]	2.5	-	2.7	-	2.3	-	8	7	-	8	7	-	-	16	-
Cyanide (Free)	µg/L	200[C]	52[G] 52[H]	<1	-	<1	-	<1	-	<2	-	-	<2	<2	-	-	<2	-
Dissolved Organic Carbon (DOC)	mg/L	5[D]	n/v	1.0	-	0.96	-	0.79	-	1.9	-	-	1.1	1.1	-	-	1.1	-
Electrical Conductivity, Lab	µmhos/cm	n/v	n/a[GH]	230	-	230	-	220	-	530	580	-	560	540	-	-	600	-
Fluoride	mg/L	1.5_b[C]	n/v	1.5	-	1.4	-	1.5	-	0.11	-	-	<0.1	<0.1	-	-	<0.10	-
Hardness (as CaCO3)	mg/L	80-100[E]	n/v	**17[E]**	-	**16[E]**	-	**16[E]**	-	**260[E]**	**300[E]**	-	**280[E]**	**280[E]**	-	-	**310[E]**	-
Ion Balance	%	n/v	n/v	NC	-	NC	-	NC	-	2.04	0.290	-	3.41	6.72	-	-	0.130	-
Langelier Index (at 20 C)	none	n/v	n/v	-0.539	-	-0.420	-	-0.216	-	0.651	0.864	-	0.743	0.769	-	-	0.444	-
Langelier Index (at 4 C)	none	n/v	n/v	-0.790	-	-0.671	-	-0.467	-	0.402	0.615	-	0.495	0.520	-	-	0.195	-
Nitrate (as N)	mg/L	10.0_d[C]	n/v	<0.10	-	<0.10	-	<0.10	-	**14.7[C]**	**11.9[C]**	-	**12.6[C]**	**12.3[C]**	-	-	8.63	-
Nitrate + Nitrite (as N)	mg/L	10.0_d[C]	n/v	<0.10	-	<0.10	-	<0.10	-	**14.8[C]**	**11.9[C]**	-	**12.6[C]**	**12.3[C]**	-	-	8.63	-
Nitrite (as N)	mg/L	1.0_d[C]	n/v	<0.010	-	<0.010	-	<0.010	-	0.018	0.014	-	<0.01	0.020	-	-	<0.010	-
Orthophosphate(as P)	mg/L	n/v	n/v	0.013	-	0.015	-	0.012	-	<0.010	<0.010	-	<0.01	<0.01	-	-	<0.010	-
pH	S.U.	6.5-8.5[E]	n/v	8.18	-	8.35	-	**8.55[E]**	-	7.85	7.92	-	7.85	7.83	-	-	7.49	-
Saturation pH (at 20 C)	none	n/v	n/v	8.72	-	8.77	-	8.77	-	7.20	7.06	-	7.11	7.06	-	-	7.04	-
Saturation pH (at 4 C)	none	n/v	n/v	8.97	-	9.02	-	9.02	-	7.44	7.31	-	7.36	7.31	-	-	7.29	-
Sulfate	mg/L	500_h[D]	n/v	18	-	19	-	20	-	15	18	-	23	25	-	-	27	-
Total Dissolved Solids	mg/L	500[D]	n/v	140	-	124	-	130	-	346	-	-	338	330	-	-	378	-
Total Dissolved Solids (Calculated)	mg/L	500[D]	n/v	130	-	130	-	130	-	-	350	-	340	360	-	-	360	-
Total Organic Carbon	mg/L	n/v	n/v	1.4	-	0.79	-	0.92	-	3.5	-	-	0.88	1.3	-	-	0.97	-
Total Suspended Solids	mg/L	n/v	n/v	23	-	<10	-	<10	-	22,000	2,200	-	130	310	-	-	41	-
Turbidity, Lab	NTU	5_j[D,E]	n/v	**22[D]**	-	1.0	-	1.9	-	**3,400[D]**	-	-	**17[D]**	**200[D]**	-	-	**39[D]**	-
BTEX and Petroleum Hydrocarbons																		
Benzene	µg/L	1[C]	0.5[G] 5[H]	<0.20	-	<0.20	-	<0.20	-	0.47	<0.20	-	<0.2	<0.2	-	-	<0.20	-
Toluene	µg/L	24[D]	24[G] 22[H]	<0.20	-	<0.20	-	<0.20	-	6.5	<0.20	-	<0.2	<0.2	-	-	<0.20	-
Ethylbenzene	µg/L	2.4[D]	2.4[G] 2.4[H]	<0.20	-	<0.20	-	<0.20	-	1.5	<0.20	-	<0.2	<0.2	-	-	<0.20	-
Xylene, m & p-	µg/L	300_{s1}[D]	$_{s1}$[GH]	<0.20	-	<0.20	-	<0.20	-	6.2	<0.20	-	<0.2	<0.2	-	-	<0.20	-
Xylene, o-	µg/L	300_{s1}[D]	$_{s1}$[GH]	<0.20	-	<0.20	-	<0.20	-	1.7	<0.20	-	<0.2	<0.2	-	-	<0.20	-
Xylenes, Total	µg/L	300[D]	72_{s1}[G] 300_{s1}[H]	<0.20	-	<0.20	-	<0.20	-	7.9	<0.20	-	<0.2	<0.2	-	-	<0.20	-
PHC F1 (C6-C10 range)	µg/L	n/v	$_{s7}$[GH]	<25	-	<25	-	<25	-	<25	-	-	<25	<25	-	-	<25	-
PHC F1 (C6-C10 range) minus BTEX	µg/L	n/v	420_{s7}[GH]	<25	-	<25	-	<25	-	<25	-	-	<25	<25	-	-	<25	-
PHC F2 (>C10-C16 range)	µg/L	n/v	150_{s15}[GH]	<100	-	<100	-	<100	-	<100	-	-	<100	<100	-	-	<100	-
PHC F3 (>C16-C34 range)	µg/L	n/v	500_{s8}[GH]	<200	-	<200	-	<200	-	<200	-	-	<200	<200	-	-	<200	-
PHC F4 (>C34-C50 range)	µg/L	n/v	500_{s10}[GH]	<200	-	<200	-	<200	-	<200	-	-	<200	<200	-	-	<200	-
Chromatogram to baseline at C50	none	n/v	n/v	YES	-	YES	-	YES	-	YES	-	-	YES	YES	-	-	YES	-

See notes on last page

Table 7
Summary of Groundwater Analytical Results - Monitoring Wells
Clarington Transformer Station
Hydro One Networks Inc.

Sample Location				MW5-14-I (Contd.)						MW5-14-S									
Sample Date				2-Nov-16	2-Nov-16	24-Apr-17	24-Apr-17	17-Oct-17	17-Oct-17	9-Oct-14	23-Dec-14	23-Dec-14	9-Apr-15	9-Apr-15	9-Apr-15	9-Apr-15	6-Oct-15	6-Oct-15
Sample ID				WG-160900764-20161102-AM12	WG-160900764-20161102-AM12A	WG-160900764-20170424-KR-01	WG-160900764-20170424-KR-01A	WG-160900764-20171017-CF10	WG-160900764-20171017-CF10A	WG-160900764-20141009-AD01	WG-160900764-20141223-MF01	WG-160900764-20141223-MF01A	WG-160900764-20150409-RD06	WG-160900764-20150409-RD07	WG-160900764-20150409-RD06A	WG-160900764-20150409-RD07A	WG-160900764-2015106-RD05	WG-160900764-2015106-RD05A
Sampling Company				STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC
Laboratory				MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX
Laboratory Work Order				B6N8983	B6N8983	B782020	B782020	B7N0947	B7N0947	B4I9252	B4O2825	B4O2825	B562741	B562741	B562741	B562741	B5K3284	B5K3284
Laboratory Sample ID				DJO976	DJO977	EGP546	EGP547	FIY631	FIY632	XY3182	YY9889	YY9890	ABU945	ABU947	ABU946	ABU948	BCP424	BCP425
Filtered				Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Field Filtered Metals	Lab Filtered SVOC	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC
Sample Type	Units	ODWS	Ontario SCS											Field Duplicate		Field Duplicate		
Metals																		
Aluminum	µg/L	100[E]	n/v	85	-	73	-	81	-	5.6	12	<5	<5	<5	-	-	<5.0	-
Antimony	µg/L	6[B]	6[G] 6[H]	<0.5	-	<0.50	-	<0.5	-	<0.50	<0.5	<0.5	<0.5	<0.5	-	-	<0.5	-
Arsenic	µg/L	25[B]	25[G] 25[H]	2.4	-	2.6	-	2.8	-	<1.0	<1	<1	<1	<1	-	-	<1	-
Barium	µg/L	1,000[C]	1,000[G] 1,000[H]	3.1	-	7.0	-	7.4	-	75	55	54	45	47	-	-	55	-
Beryllium	µg/L	n/v	4[G] 4[H]	<0.5	-	<0.50	-	<0.5	-	<0.50	<0.5	<0.5	<0.5	<0.5	-	-	<0.5	-
Boron	µg/L	5,000[B]	5,000[G] 5,000[H]	230	-	220	-	230	-	16	10	13	<10	<10	-	-	<10	-
Cadmium	µg/L	5[C]	2.1[G] 2.1[H]	<0.1	-	<0.10	-	<0.1	-	<0.10	<0.1	<0.1	<0.1	<0.1	-	-	<0.1	-
Calcium	µg/L	n/v	n/v	4,800	-	4,200	-	4,300	-	84,000	100,000	99,000	92,000	93,000	-	-	100,000	-
Chromium	µg/L	50[C]	50[G] 50[H]	<5	-	<5.0	-	<5	-	<5.0	<5	<5	<5	<5	-	-	<5.0	-
Chromium (Hexavalent)	µg/L	n/v	25[G] 25[H]	<0.50	-	<0.50	-	<0.50	-	<0.50	-	-	<0.5	<0.5	-	-	0.60	-
Cobalt	µg/L	n/v	3.8[G] 3.8[H]	<0.5	-	<0.50	-	<0.5	-	<0.50	<0.5	<0.5	<0.5	<0.5	-	-	<0.5	-
Copper	µg/L	1,000[D]	69[G] 69[H]	<1	-	<1.0	-	<1	-	1.1	1.9	<1	<1	<1	-	-	<1	-
Iron	µg/L	300[D]	n/v	<100	-	<100	-	<100	-	<100	<100	<100	<100	<100	-	-	<100	-
Lead	µg/L	10[C]	10[G] 10[H]	<0.5	-	<0.50	-	<0.5	-	<0.50	<0.5	<0.5	<0.5	<0.5	-	-	<0.5	-
Magnesium	µg/L	n/v	n/v	1,200	-	1,200	-	1,400	-	12,000	11,000	12,000	11,000	11,000	-	-	12,000	-
Manganese	µg/L	50[D]	n/v	<2	-	<2.0	-	<2	-	15	14	17	5	5	-	-	2.1	-
Mercury	µg/L	1[C]	0.1[G] 0.29[H]	<0.1	-	<0.1	-	<0.1	-	<0.1	-	-	<0.1	<0.1	-	-	<0.1	-
Molybdenum	µg/L	n/v	70[G] 70[H]	8.6	-	9.0	-	7.6	-	3.1	1.1	1.3	0.69	0.67	-	-	0.55	-
Nickel	µg/L	n/v	100[G] 100[H]	<1	-	<1.0	-	<1	-	1.3	<1	<1	<1	<1	-	-	<1	-
Phosphorus	µg/L	n/v	n/v	<100	-	<100	-	<100	-	<100	<100	<100	<100	<100	-	-	<100	-
Potassium	µg/L	n/v	n/v	630	-	540	-	610	-	3,600	2,000	1,900	1,500	1,500	-	-	1,900	-
Selenium	µg/L	10[C]	10[G] 10[H]	<2	-	<2.0	-	<2	-	<2.0	<2	<2	<2	<2	-	-	<2	-
Silicon	µg/L	n/v	n/v	2,900	-	2,700	-	3,100	-	5,500	5,200	5,200	4,500	4,600	-	-	5,800	-
Silver	µg/L	n/v	1.2[G] 1.2[H]	<0.1	-	<0.10	-	<0.1	-	<0.10	<0.1	<0.1	<0.1	<0.1	-	-	<0.1	-
Sodium	µg/L	200,000[D] 20,000[F]	490,000[G] 490,000[H]	**44,000[F]**	-	**41,000[F]**	-	**44,000[F]**	-	5,100	3,500	3,600	3,300	3,300	-	-	4,800	-
Strontium	µg/L	n/v	n/v	79	-	81	-	88	-	280	210	210	190	190	-	-	220	-
Thallium	µg/L	n/v	2[G] 2[H]	<0.05	-	<0.050	-	<0.05	-	<0.050	<0.05	<0.05	<0.05	<0.05	-	-	<0.05	-
Titanium	µg/L	n/v	n/v	<5	-	<5.0	-	<5	-	<5.0	<5	<5	<5	<5	-	-	<5.0	-
Uranium	µg/L	20[C]	20[G] 20[H]	1.1	-	0.89	-	0.71	-	2.9	0.79	0.91	0.68	0.71	-	-	0.73	-
Vanadium	µg/L	n/v	6.2[G] 6.2[H]	1.6	-	1.7	-	1.2	-	0.76	<0.5	<0.5	<0.5	<0.5	-	-	<0.5	-
Zinc	µg/L	5,000[D]	890[G] 890[H]	<5	-	<5.0	-	<5	-	<5.0	6	<5	9.5	<5	-	-	<5.0	-
Zirconium	µg/L	n/v	n/v	<1	-	<1.0	-	<1	-	<1.0	<1	<1	<1	<1	-	-	<1	-
Polychlorinated Biphenyls																		
Aroclor 1242	µg/L	n/v	$_{s14}^{GH}$	<0.05	-	<0.05	-	<0.05	-	<0.5	-	-	<0.05	<0.05	-	-	<0.05	-
Aroclor 1248	µg/L	n/v	$_{s14}^{GH}$	<0.05	-	<0.05	-	<0.05	-	<0.5	-	-	<0.05	<0.05	-	-	<0.05	-
Aroclor 1254	µg/L	n/v	$_{s14}^{GH}$	<0.05	-	<0.05	-	<0.05	-	<0.5	-	-	<0.05	<0.05	-	-	<0.05	-
Aroclor 1260	µg/L	n/v	$_{s14}^{GH}$	<0.05	-	<0.05	-	<0.05	-	<0.5	-	-	<0.05	<0.05	-	-	<0.05	-
Polychlorinated Biphenyls (PCBs)	µg/L	3[B]	0.2_{s14}^{GH}	<0.05	-	<0.05	-	<0.05	-	***<0.5***	-	-	<0.05	<0.05	-	-	<0.05	-

See notes on last page

Table 7
Summary of Groundwater Analytical Results - Monitoring Wells
Clarington Transformer Station
Hydro One Networks Inc.

Sample Location				MW5-14-I (Contd.)						MW5-14-S									
Sample Date				2-Nov-16	2-Nov-16	24-Apr-17	24-Apr-17	17-Oct-17	17-Oct-17	9-Oct-14	23-Dec-14	23-Dec-14	9-Apr-15	9-Apr-15	9-Apr-15	9-Apr-15	6-Oct-15	6-Oct-15
Sample ID				WG-160900764-20161102-AM12	WG-160900764-20161102-AM12A	WG-160900764-20170424-KR-01	WG-160900764-20170424-KR-01A	WG-160900764-20171017-CF10	WG-160900764-20171017-CF10A	WG-160900764-20141009-AD01	WG-160900764-20141223-MF01	WG-160900764-20141223-MF01A	WG-160900764-20150409-RD06	WG-160900764-20150409-RD07	WG-160900764-20150409-RD06A	WG-160900764-20150409-RD07A	WG-160900764-2015106-RD05	WG-160900764-2015106-RD05A
Sampling Company				STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC
Laboratory				MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX
Laboratory Work Order				B6N8983	B6N8983	B782020	B782020	B7N0947	B7N0947	B4I9252	B4O2825	B4O2825	B562741	B562741	B562741	B562741	B5K3284	B5K3284
Laboratory Sample ID				DJO976	DJO977	EGP546	EGP547	FIY631	FIY632	XY3182	YY9889	YY9890	ABU945	ABU947	ABU946	ABU948	BCP424	BCP425
Filtered				Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Field Filtered Metals	Lab Filtered SVOC	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC
Sample Type	Units	ODWS	Ontario SCS											Field Duplicate		Field Duplicate		
Semi-Volatile Organic Compounds																		
Phthalates																		
Bis(2-Ethylhexyl)phthalate (DEHP)	µg/L	n/v	10[G] 10[H]	<1	<1	<1	<1	<1	<1	2	<1	<1	<2	<1	<1	<1	<1	<1
Diethyl Phthalate	µg/L	n/v	30[G] 30[H]	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.1	0.1	1.9	<0.1	<0.1
Dimethyl Phthalate	µg/L	n/v	30[G] 30[H]	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1
Polycyclic Aromatic Hydrocarbons																		
Acenaphthene	µg/L	n/v	4.1[G] 4.1[H]	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.4	<0.2	<0.2	<0.2	<0.2	<0.2
Acenaphthylene	µg/L	n/v	1[G] 1[H]	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.4	<0.2	<0.2	<0.2	<0.2	<0.2
Anthracene	µg/L	n/v	1[G] 1[H]	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(a)anthracene	µg/L	n/v	1[G] 1[H]	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(a)pyrene	µg/L	0.01[C]	0.01[G] 0.01[H]	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	***<0.02***	<0.01	<0.01	<0.01	<0.01	<0.01
Benzo(b/j)fluoranthene	µg/L	n/v	0.1_{s2}[GH]	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(g,h,i)perylene	µg/L	n/v	0.2[G] 0.2[H]	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(k)fluoranthene	µg/L	n/v	0.1[G] 0.1[H]	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	<0.05	<0.05	<0.05	<0.05	<0.05
Chrysene	µg/L	n/v	0.1[G] 0.1[H]	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	<0.05	<0.05	<0.05	<0.05	<0.05
Dibenzo(a,h)anthracene	µg/L	n/v	0.2[G] 0.2[H]	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	µg/L	n/v	0.41[G] 0.41[H]	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.4	<0.2	<0.2	<0.2	<0.2	<0.2
Fluorene	µg/L	n/v	120[G] 120[H]	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.4	<0.2	<0.2	<0.2	<0.2	<0.2
Indeno(1,2,3-cd)pyrene	µg/L	n/v	0.2[G] 0.2[H]	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1
Methylnaphthalene (Total)	µg/L	n/v	3.2_{s3}[GH]	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	1.9	<0.28	<0.28	<0.57	<0.28	<0.28	<0.28	<0.28	<0.28
Methylnaphthalene, 1-	µg/L	n/v	$_{s3}$[GH]	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	0.6	<0.2	<0.2	<0.4	<0.2	<0.2	<0.2	<0.2	<0.2
Methylnaphthalene, 2-	µg/L	n/v	$_{s3}$[GH]	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	1.3	<0.2	<0.2	<0.4	<0.2	<0.2	<0.2	<0.2	<0.2
Naphthalene	µg/L	n/v	7[G] 11[H]	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	0.8	<0.2	<0.2	<0.4	<0.2	<0.2	<0.2	<0.2	<0.2
Phenanthrene	µg/L	n/v	1[G] 1[H]	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.4	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1
Pyrene	µg/L	n/v	4.1[G] 4.1[H]	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.08	<0.05	<0.05	<0.1	<0.05	<0.05	<0.05	<0.05	<0.05
Remaining Semi-Volatile Organic Compounds																		
Biphenyl, 1,1'- (Biphenyl)	µg/L	n/v	0.5[G] 0.5[H]	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.3	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1
Bis(2-Chloroethyl)ether	µg/L	n/v	5[G] 5[H]	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
Bis(2-Chloroisopropyl)ether	µg/L	n/v	120[G] 120[H]	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
Chloroaniline, 4-	µg/L	n/v	10[G] 10[H]	<1	<1	<1	<1	<1	<1	<1	<1	<1	<2	<1	<1	<1	<1	<1
Chlorophenol, 2- (ortho-Chlorophenol)	µg/L	n/v	8.9[G] 8.9[H]	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1
Dichlorobenzidine, 3,3'-	µg/L	n/v	0.5[G] 0.5[H]	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	***<1***	<0.5	<0.5	<0.5	<0.5	<0.5
Dichlorophenol, 2,4-	µg/L	900[C] 0.3_{t}[D]	20[G] 20[H]	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1
Dimethylphenol, 2,4-	µg/L	n/v	59[G] 59[H]	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
Dinitrophenol, 2,4-	µg/L	n/v	10[G] 10[H]	<2	<2	<2	<2	<2	<2	<2	<2	<2	<4	<2	<2	<2	<2	<2
Dinitrotoluene, 2,4-	µg/L	n/v	5_{t13}[GH]	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.5	<0.3	<0.3	<0.3	<0.3	<0.3
Dinitrotoluene, 2,6-	µg/L	n/v	5_{t13}[GH]	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.5	<0.3	<0.3	<0.3	<0.3	<0.3
Pentachlorophenol	µg/L	60[C] 30_{t}[D]	30[G] 30[H]	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1
Phenol	µg/L	n/v	890[G] 890[H]	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
Trichlorobenzene, 1,2,4-	µg/L	n/v	3[G] 70[H]	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1
Trichlorophenol, 2,4,5-	µg/L	n/v	8.9[G] 8.9[H]	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.4	<0.2	<0.2	<0.2	<0.2	<0.2
Trichlorophenol, 2,4,6-	µg/L	5[C] 2_{t}[D]	2[G] 2[H]	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.4	<0.2	<0.2	<0.2	<0.2	<0.2

See notes on last page

Table 7
Summary of Groundwater Analytical Results - Monitoring Wells
Clarington Transformer Station
Hydro One Networks Inc.

Sample Location				MW5-14-I (Contd.)						MW5-14-S									
Sample Date				2-Nov-16	2-Nov-16	24-Apr-17	24-Apr-17	17-Oct-17	17-Oct-17	9-Oct-14	23-Dec-14	23-Dec-14	9-Apr-15	9-Apr-15	9-Apr-15	9-Apr-15	6-Oct-15	6-Oct-15
Sample ID				WG-160900764-20161102-AM12	WG-160900764-20161102-AM12A	WG-160900764-20170424-KR-01	WG-160900764-20170424-KR-01A	WG-160900764-20171017-CF10	WG-160900764-20171017-CF10A	WG-160900764-20141009-AD01	WG-160900764-20141223-MF01	WG-160900764-20141223-MF01A	WG-160900764-20150409-RD06	WG-160900764-20150409-RD07	WG-160900764-20150409-RD06A	WG-160900764-20150409-RD07A	WG-160900764-2015106-RD05	WG-160900764-2015106-RD05A
Sampling Company				STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC
Laboratory				MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX
Laboratory Work Order				B6N8983	B6N8983	B782020	B782020	B7N0947	B7N0947	B4I9252	B4O2825	B4O2825	B562741	B562741	B562741	B562741	B5K3284	B5K3284
Laboratory Sample ID				DJO976	DJO977	EGP546	EGP547	FIY631	FIY632	XY3182	YY9889	YY9890	ABU945	ABU947	ABU946	ABU948	BCP424	BCP425
Filtered				Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Field Filtered Metals	Lab Filtered SVOC	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC
Sample Type	Units	ODWS	Ontario SCS											Field Duplicate		Field Duplicate		
Volatile Organic Compounds																		
Acetone	µg/L	n/v	2,700[G] 2,700[H]	<10	-	<10	-	<10	-	14	<10	-	<10	<10	-	-	<10	-
Bromodichloromethane	µg/L	n/v	16[G] 16[H]	<0.50	-	<0.50	-	<0.50	-	<0.50	<0.50	-	<0.5	<0.5	-	-	<0.50	-
Bromoform (Tribromomethane)	µg/L	n/v	5[G] 25[H]	<1.0	-	<1.0	-	<1.0	-	<1.0	<1.0	-	<1	<1	-	-	<1.0	-
Bromomethane (Methyl bromide)	µg/L	n/v	0.89[G] 0.89[H]	<0.50	-	<0.50	-	<0.50	-	<0.50	<0.50	-	<0.5	<0.5	-	-	<0.50	-
Carbon Tetrachloride (Tetrachloromethane)	µg/L	2[C]	0.2[G] 0.79[H]	<0.20	-	<0.20	-	<0.20	-	<0.20	<0.20	-	<0.2	<0.2	-	-	<0.20	-
Chlorobenzene (Monochlorobenzene)	µg/L	80[C] 30[D]	30[G] 30[H]	<0.20	-	<0.20	-	<0.20	-	<0.20	<0.20	-	<0.2	<0.2	-	-	<0.20	-
Chloroform (Trichloromethane)	µg/L	n/v	2[G] 2.4[H]	<0.20	-	<0.20	-	<0.20	-	<0.20	<0.20	-	<0.2	<0.2	-	-	<0.20	-
Dibromochloromethane	µg/L	n/v	25[G] 25[H]	<0.50	-	<0.50	-	<0.50	-	<0.50	<0.50	-	<0.5	<0.5	-	-	<0.50	-
Dichlorobenzene, 1,2-	µg/L	200[C] 3[D]	3[G] 3[H]	<0.50	-	<0.50	-	<0.50	-	<0.50	<0.50	-	<0.5	<0.5	-	-	<0.50	-
Dichlorobenzene, 1,3-	µg/L	n/v	59[G] 59[H]	<0.50	-	<0.50	-	<0.50	-	<0.50	<0.50	-	<0.5	<0.5	-	-	<0.50	-
Dichlorobenzene, 1,4-	µg/L	5[C] 1[D]	0.5[G] 1[H]	<0.50	-	<0.50	-	<0.50	-	<0.50	<0.50	-	<0.5	<0.5	-	-	<0.50	-
Dichlorodifluoromethane (Freon 12)	µg/L	n/v	590[G] 590[H]	<1.0	-	<1.0	-	<1.0	-	<1.0	<1.0	-	<1	<1	-	-	<1.0	-
Dichloroethane, 1,1-	µg/L	n/v	5[G] 5[H]	<0.20	-	<0.20	-	<0.20	-	<0.20	<0.20	-	<0.2	<0.2	-	-	<0.20	-
Dichloroethane, 1,2-	µg/L	5[B]	0.5[G] 1.6[H]	<0.50	-	<0.50	-	<0.50	-	<0.50	<0.50	-	<0.5	<0.5	-	-	<0.50	-
Dichloroethene, 1,1-	µg/L	14[C]	0.5[G] 1.6[H]	<0.20	-	<0.20	-	<0.20	-	<0.20	<0.20	-	<0.2	<0.2	-	-	<0.20	-
Dichloroethene, cis-1,2-	µg/L	n/v	1.6[G] 1.6[H]	<0.50	-	<0.50	-	<0.50	-	<0.50	<0.50	-	<0.5	<0.5	-	-	<0.50	-
Dichloroethene, trans-1,2-	µg/L	n/v	1.6[G] 1.6[H]	<0.50	-	<0.50	-	<0.50	-	<0.50	<0.50	-	<0.5	<0.5	-	-	<0.50	-
Dichloropropane, 1,2-	µg/L	n/v	0.58[G] 5[H]	<0.20	-	<0.20	-	<0.20	-	<0.20	<0.20	-	<0.2	<0.2	-	-	<0.20	-
Dichloropropene, 1,3- (sum of isomers cis + trans)	µg/L	n/v	0.5[511][GH]	<0.50	-	<0.50	-	<0.50	-	<0.50	<0.50	-	<0.5	<0.5	-	-	<0.50	-
Dichloropropene, cis-1,3-	µg/L	n/v	[511][GH]	<0.30	-	<0.30	-	<0.30	-	<0.30	<0.30	-	<0.3	<0.3	-	-	<0.30	-
Dichloropropene, trans-1,3-	µg/L	n/v	[511][GH]	<0.40	-	<0.40	-	<0.40	-	<0.40	<0.40	-	<0.4	<0.4	-	-	<0.40	-
Ethylene Dibromide (Dibromoethane, 1,2-)	µg/L	n/v	0.2[G] 0.2[H]	<0.20	-	<0.20	-	<0.20	-	<0.20	<0.20	-	<0.2	<0.2	-	-	<0.20	-
Hexane (n-Hexane)	µg/L	n/v	5[G] 51[H]	<1.0	-	<1.0	-	<1.0	-	<1.0	<1.0	-	<1	<1	-	-	<1.0	-
Methyl Ethyl Ketone (MEK) (2-Butanone)	µg/L	n/v	1,800[G] 1,800[H]	<10	-	<10	-	<10	-	<10	<10	-	<10	<10	-	-	<10	-
Methyl Isobutyl Ketone (MIBK)	µg/L	n/v	640[G] 640[H]	<5.0	-	<5.0	-	<5.0	-	<5.0	<5.0	-	<5	<5	-	-	<5.0	-
Methyl tert-butyl ether (MTBE)	µg/L	n/v	15[G] 15[H]	<0.50	-	<0.50	-	<0.50	-	<0.50	<0.50	-	<0.5	<0.5	-	-	<0.50	-
Methylene Chloride (Dichloromethane)	µg/L	50[C]	26[G] 50[H]	<2.0	-	<2.0	-	<2.0	-	<2.0	<2.0	-	<2	<2	-	-	<2.0	-
Styrene	µg/L	n/v	5.4[G] 5.4[H]	<0.50	-	<0.50	-	<0.50	-	<0.50	<0.50	-	<0.5	<0.5	-	-	<0.50	-
Tetrachloroethane, 1,1,1,2-	µg/L	n/v	1.1[G] 1.1[H]	<0.50	-	<0.50	-	<0.50	-	<0.50	<0.50	-	<0.5	<0.5	-	-	<0.50	-
Tetrachloroethane, 1,1,2,2-	µg/L	n/v	0.5[G] 1[H]	<0.50	-	<0.50	-	<0.50	-	<0.50	<0.50	-	<0.5	<0.5	-	-	<0.50	-
Tetrachloroethene (PCE)	µg/L	30[C]	0.5[G] 1.6[H]	<0.20	-	<0.20	-	<0.20	-	<0.20	<0.20	-	<0.2	<0.2	-	-	<0.20	-
Trichloroethane, 1,1,1-	µg/L	n/v	23[G] 200[H]	<0.20	-	<0.20	-	<0.20	-	<0.20	<0.20	-	<0.2	<0.2	-	-	<0.20	-
Trichloroethane, 1,1,2-	µg/L	n/v	0.5[G] 4.7[H]	<0.50	-	<0.50	-	<0.50	-	<0.50	<0.50	-	<0.5	<0.5	-	-	<0.50	-
Trichloroethene (TCE)	µg/L	5[C]	0.5[G] 1.6[H]	<0.20	-	<0.20	-	<0.20	-	<0.20	<0.20	-	<0.2	<0.2	-	-	<0.20	-
Trichlorofluoromethane (Freon 11)	µg/L	n/v	150[G] 150[H]	<0.50	-	<0.50	-	<0.50	-	<0.50	<0.50	-	<0.5	<0.5	-	-	<0.50	-
Trihalomethanes	µg/L	100[e][C]	n/v	-	-	-	-	<1.0	-	-	-	-	-	-	-	-	<0.20	-
Vinyl Chloride	µg/L	1[C]	0.5[G] 0.5[H]	<0.20	-	<0.20	-	<0.20	-	<0.20	<0.20	-	<0.2	<0.2	-	-	<0.20	-

See notes on last page

Table 7
Summary of Groundwater Analytical Results - Monitoring Wells
Clarington Transformer Station
Hydro One Networks Inc.

Sample Location				MW5-14-S (Contd.)													
Sample Date				12-Apr-16	12-Apr-16	12-Apr-16	12-Apr-16	2-Nov-16	2-Nov-16	2-Nov-16	2-Nov-16	24-Apr-17	24-Apr-17	24-Apr-17	24-Apr-17	16-Oct-17	16-Oct-17
Sample ID				WG-160900764-20160412-AM03	WG-160900764-20160412-AM04	WG-160900764-20160412-AM03A	WG-160900764-20160412-AM04A	WG-160900764-20161102-AM10	WG-160900764-20161102-AM10A	WG-160900764-20161102-AM11	WG-160900764-20161102-AM11A	WG-160900764-20170424-KR-03	WG-160900764-20170424-KR-04	WG-160900764-20170424-KR-03A	WG-160900764-20170424-KR-04A	WG-160900764-20171016-RD01	WG-160900764-20171016-RD01A
Sampling Company				STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC
Laboratory				MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX
Laboratory Work Order				B673021	B673021	B673021	B673021	B6N8983	B6N8983	B6N8983	B6N8983	B782020	B782020	B782020	B782020	B7M9492	B7M9492
Laboratory Sample ID				CEK205	CEK207	CEK206	CEK208	DJO972	DJO973	DJO974	DJO975	EGP550	EGP552	EGP551	EGP553	FIQ040	FIQ041
Filtered				Field Filtered Metals	Field Filtered Metals	Lab Filtered SVOC	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Field Filtered Metals	Lab Filtered SVOC	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC
Sample Type	Units	ODWS	Ontario SCS		Field Duplicate		Field Duplicate						Field Duplicate		Field Duplicate		
General Chemistry																	
Acidity	mg/L	n/v	n/v	37	42	-	-	24	-	24	-	50	50	-	-	25	-
Alkalinity, Bicarbonate (as CaCO3)	mg/L	n/v	n/v	280	280	-	-	240	-	240	-	270	260	-	-	260	-
Alkalinity, Carbonate (as CaCO3)	mg/L	n/v	n/v	1.4	1.5	-	-	1.9	-	1.7	-	1.5	1.4	-	-	1.3	-
Alkalinity, Total (as CaCO3)	mg/L	30-500[E]	n/v	290	280	-	-	240	-	240	-	270	270	-	-	260	-
Ammonia (as N)	mg/L	n/v	n/v	<0.050	<0.050	-	-	<0.050	-	<0.050	-	<0.050	<0.050	-	-	<0.050	-
Anion Sum	meq/L	n/v	n/v	7.32	7.25	-	-	6.14	-	6.18	-	9.52	9.51	-	-	9.12	-
Cation Sum	meq/L	n/v	n/v	7.63	7.57	-	-	6.09	-	6.03	-	9.55	9.18	-	-	9.60	-
Chloride	mg/L	250[D]	790[G] 790[H]	23	22	-	-	10	-	10	-	94	95	-	-	50	-
Cyanide (Free)	µg/L	200[C]	52[G] 52[H]	<2	<2	-	-	<1	-	<1	-	<1	<1	-	-	<1	-
Dissolved Organic Carbon (DOC)	mg/L	5[D]	n/v	1.1	1.0	-	-	0.90	-	0.89	-	1.1	1.1	-	-	1.2	-
Electrical Conductivity, Lab	µmhos/cm	n/v	n/a[GH]	700	700	-	-	590	-	590	-	960	960	-	-	830	-
Fluoride	mg/L	1.5_b[C]	n/v	<0.10	<0.10	-	-	<0.10	-	<0.10	-	<0.10	<0.10	-	-	<0.10	-
Hardness (as CaCO3)	mg/L	80-100[E]	n/v	**370[E]**	**360[E]**	-	-	**290[E]**	-	**290[E]**	-	**430[E]**	**420[E]**	-	-	**420[E]**	-
Ion Balance	%	n/v	n/v	2.08	2.12	-	-	0.440	-	1.25	-	0.150	1.76	-	-	2.55	-
Langelier Index (at 20 C)	none	n/v	n/v	0.822	0.850	-	-	0.832	-	0.802	-	0.884	0.837	-	-	0.841	-
Langelier Index (at 4 C)	none	n/v	n/v	0.573	0.601	-	-	0.583	-	0.553	-	0.637	0.590	-	-	0.594	-
Nitrate (as N)	mg/L	10.0_d[C]	n/v	6.41	6.56	-	-	6.83	-	6.84	-	9.78	9.76	-	-	8.48	-
Nitrate + Nitrite (as N)	mg/L	10.0_d[C]	n/v	6.41	6.56	-	-	6.83	-	6.84	-	9.78	9.76	-	-	8.48	-
Nitrite (as N)	mg/L	1.0_d[C]	n/v	<0.010	<0.010	-	-	<0.010	-	<0.010	-	<0.010	<0.010	-	-	<0.010	-
Orthophosphate(as P)	mg/L	n/v	n/v	<0.010	<0.010	-	-	<0.010	-	<0.010	-	<0.010	0.011	-	-	<0.010	-
pH	S.U.	6.5-8.5[E]	n/v	7.71	7.74	-	-	7.92	-	7.88	-	7.76	7.74	-	-	7.72	-
Saturation pH (at 20 C)	none	n/v	n/v	6.89	6.89	-	-	7.09	-	7.07	-	6.88	6.90	-	-	6.88	-
Saturation pH (at 4 C)	none	n/v	n/v	7.14	7.14	-	-	7.33	-	7.32	-	7.13	7.15	-	-	7.12	-
Sulfate	mg/L	500_h[D]	n/v	24	24	-	-	27	-	26	-	40	39	-	-	91	-
Total Dissolved Solids	mg/L	500[D]	n/v	402	396	-	-	346	-	310	-	**648[D]**	**640[D]**	-	-	**550[D]**	-
Total Dissolved Solids (Calculated)	mg/L	500[D]	n/v	400	400	-	-	340	-	340	-	**530[D]**	**530[D]**	-	-	**540[D]**	-
Total Organic Carbon	mg/L	n/v	n/v	1.1	1.1	-	-	0.81	-	0.82	-	1.1	0.95	-	-	1.5	-
Total Suspended Solids	mg/L	n/v	n/v	<10	<10	-	-	<10	-	<10	-	<10	<10	-	-	30	-
Turbidity, Lab	NTU	5_j[D,E]	n/v	2.9	3.0	-	-	4.1	-	3.3	-	1.6	1.0	-	-	1.7	-
BTEX and Petroleum Hydrocarbons																	
Benzene	µg/L	1[C]	0.5[G] 5[H]	<0.20	<0.20	-	-	<0.20	-	<0.20	-	<0.20	<0.20	-	-	<0.20	-
Toluene	µg/L	24[D]	24[G] 22[H]	<0.20	<0.20	-	-	<0.20	-	<0.20	-	<0.20	<0.20	-	-	<0.20	-
Ethylbenzene	µg/L	2.4[D]	2.4[G] 2.4[H]	<0.20	<0.20	-	-	<0.20	-	<0.20	-	<0.20	<0.20	-	-	<0.20	-
Xylene, m & p-	µg/L	300_{s1}[D]	$_{s1}$[GH]	<0.20	<0.20	-	-	<0.20	-	<0.20	-	<0.20	<0.20	-	-	<0.20	-
Xylene, o-	µg/L	300_{s1}[D]	$_{s1}$[GH]	<0.20	<0.20	-	-	<0.20	-	<0.20	-	<0.20	<0.20	-	-	<0.20	-
Xylenes, Total	µg/L	300[D]	72_{s1}[G] 300_{s1}[H]	<0.20	<0.20	-	-	<0.20	-	<0.20	-	<0.20	<0.20	-	-	<0.20	-
PHC F1 (C6-C10 range)	µg/L	n/v	$_{s7}$[GH]	<25	<25	-	-	<25	-	<25	-	<25	<25	-	-	<25	-
PHC F1 (C6-C10 range) minus BTEX	µg/L	n/v	420_{s7}[GH]	<25	<25	-	-	<25	-	<25	-	<25	<25	-	-	<25	-
PHC F2 (>C10-C16 range)	µg/L	n/v	150_{s15}[GH]	<100	<100	-	-	<100	-	<100	-	<100	<100	-	-	<100	-
PHC F3 (>C16-C34 range)	µg/L	n/v	500_{s8}[GH]	<200	<200	-	-	<200	-	<200	-	<200	<200	-	-	<200	-
PHC F4 (>C34-C50 range)	µg/L	n/v	500_{s10}[GH]	<200	<200	-	-	<200	-	<200	-	<200	<200	-	-	<200	-
Chromatogram to baseline at C50	none	n/v	n/v	YES	YES	-	-	YES	-	YES	-	YES	YES	-	-	YES	-

See notes on last page

Table 7
Summary of Groundwater Analytical Results - Monitoring Wells
Clarington Transformer Station
Hydro One Networks Inc.

Sample Location				MW5-14-S (Contd.)													
Sample Date				12-Apr-16	12-Apr-16	12-Apr-16	12-Apr-16	2-Nov-16	2-Nov-16	2-Nov-16	2-Nov-16	24-Apr-17	24-Apr-17	24-Apr-17	24-Apr-17	16-Oct-17	16-Oct-17
Sample ID				WG-160900764-20160412-AM03	WG-160900764-20160412-AM04	WG-160900764-20160412-AM03A	WG-160900764-20160412-AM04A	WG-160900764-20161102-AM10	WG-160900764-20161102-AM10A	WG-160900764-20161102-AM11	WG-160900764-20161102-AM11A	WG-160900764-20170424-KR-03	WG-160900764-20170424-KR-04	WG-160900764-20170424-KR-03A	WG-160900764-20170424-KR-04A	WG-160900764-20171016-RD01	WG-160900764-20171016-RD01A
Sampling Company				STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC
Laboratory				MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX
Laboratory Work Order				B673021	B673021	B673021	B673021	B6N8983	B6N8983	B6N8983	B6N8983	B782020	B782020	B782020	B782020	B7M9492	B7M9492
Laboratory Sample ID				CEK205	CEK207	CEK206	CEK208	DJO972	DJO973	DJO974	DJO975	EGP550	EGP552	EGP551	EGP553	FIQ040	FIQ041
Filtered				Field Filtered Metals	Field Filtered Metals	Lab Filtered SVOC	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Field Filtered Metals	Lab Filtered SVOC	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC
Sample Type	Units	ODWS	Ontario SCS		Field Duplicate		Field Duplicate						Field Duplicate		Field Duplicate		
Metals																	
Aluminum	µg/L	100[E]	n/v	<5	<5	-	-	5.6	-	6.6	-	<5.0	<5.0	-	-	5.2	-
Antimony	µg/L	6[B]	6[G] 6[H]	<0.5	<0.5	-	-	<0.5	-	<0.5	-	<0.50	<0.50	-	-	<0.5	-
Arsenic	µg/L	25[B]	25[G] 25[H]	<1	<1	-	-	<1	-	<1	-	<1.0	<1.0	-	-	<1	-
Barium	µg/L	1,000[C]	1,000[G] 1,000[H]	51	52	-	-	68	-	72	-	62	61	-	-	70	-
Beryllium	µg/L	n/v	4[G] 4[H]	<0.5	<0.5	-	-	<0.5	-	<0.5	-	<0.50	<0.50	-	-	<0.5	-
Boron	µg/L	5,000[B]	5,000[G] 5,000[H]	<10	<10	-	-	11	-	<10	-	<10.0	<10.0	-	-	53	-
Cadmium	µg/L	5[C]	2.1[G] 2.1[H]	<0.1	<0.1	-	-	<0.1	-	<0.1	-	<0.10	<0.10	-	-	<0.1	-
Calcium	µg/L	n/v	n/v	130,000	130,000	-	-	93,000	-	92,000	-	160,000	150,000	-	-	150,000	-
Chromium	µg/L	50[C]	50[G] 50[H]	<5	<5	-	-	<5	-	<5	-	<5.0	<5.0	-	-	<5	-
Chromium (Hexavalent)	µg/L	n/v	25[G] 25[H]	<0.50	<0.50	-	-	<0.50	-	<0.50	-	1.4	1.4	-	-	2.4	-
Cobalt	µg/L	n/v	3.8[G] 3.8[H]	<0.5	<0.5	-	-	<0.5	-	<0.5	-	<0.50	0.54	-	-	<0.5	-
Copper	µg/L	1,000[D]	69[G] 69[H]	<1	<1	-	-	<1	-	<1	-	<1.0	<1.0	-	-	<1	-
Iron	µg/L	300[D]	n/v	<100	<100	-	-	<100	-	<100	-	<100	<100	-	-	<100	-
Lead	µg/L	10_c[C]	10[G] 10[H]	<0.5	<0.5	-	-	<0.5	-	<0.5	-	<0.50	<0.50	-	-	<0.5	-
Magnesium	µg/L	n/v	n/v	12,000	12,000	-	-	14,000	-	14,000	-	11,000	11,000	-	-	9,900	-
Manganese	µg/L	50[D]	n/v	<2	<2	-	-	18	-	17	-	<2.0	<2.0	-	-	<2	-
Mercury	µg/L	1[C]	0.1[G] 0.29[H]	<0.1	<0.1	-	-	<0.1	-	<0.1	-	<0.1	<0.1	-	-	<0.1	-
Molybdenum	µg/L	n/v	70[G] 70[H]	<0.5	<0.5	-	-	0.9	-	0.69	-	<0.50	<0.50	-	-	<0.5	-
Nickel	µg/L	n/v	100[G] 100[H]	<1	<1	-	-	<1	-	<1	-	<1.0	<1.0	-	-	<1	-
Phosphorus	µg/L	n/v	n/v	<100	<100	-	-	<100	-	<100	-	<100	<100	-	-	<100	-
Potassium	µg/L	n/v	n/v	1,400	1,300	-	-	2,700	-	2,700	-	1,200	1,200	-	-	1,500	-
Selenium	µg/L	10[C]	10[G] 10[H]	<2	<2	-	-	<2	-	<2	-	<2.0	<2.0	-	-	<2	-
Silicon	µg/L	n/v	n/v	4,900	4,800	-	-	6,000	-	6,000	-	4,400	4,300	-	-	5,300	-
Silver	µg/L	n/v	1.2[G] 1.2[H]	<0.1	<0.1	-	-	<0.1	-	<0.1	-	<0.10	<0.10	-	-	<0.1	-
Sodium	µg/L	$200{,}000_g$[D] $20{,}000_g$[F]	490,000[G] 490,000[H]	5,900	5,800	-	-	5,000	-	5,000	-	20,000	19,000	-	-	**25,000[F]**	-
Strontium	µg/L	n/v	n/v	250	250	-	-	240	-	240	-	280	290	-	-	300	-
Thallium	µg/L	n/v	2[G] 2[H]	<0.05	<0.05	-	-	<0.05	-	<0.05	-	<0.050	<0.050	-	-	<0.05	-
Titanium	µg/L	n/v	n/v	<5	<5	-	-	<5	-	<5	-	<5.0	<5.0	-	-	<5	-
Uranium	µg/L	20[C]	20[G] 20[H]	0.46	0.45	-	-	2.2	-	2.2	-	0.51	0.50	-	-	0.58	-
Vanadium	µg/L	n/v	6.2[G] 6.2[H]	<0.5	<0.5	-	-	<0.5	-	0.59	-	<0.50	<0.50	-	-	<0.5	-
Zinc	µg/L	5,000[D]	890[G] 890[H]	<5	8.3	-	-	<5	-	<5	-	<5.0	<5.0	-	-	<5	-
Zirconium	µg/L	n/v	n/v	<1	<1	-	-	<1	-	<1	-	<1.0	<1.0	-	-	<1	-
Polychlorinated Biphenyls																	
Aroclor 1242	µg/L	n/v	$_{s14}$[GH]	<0.05	<0.05	-	-	<0.05	-	<0.05	-	<0.05	<0.05	-	-	<0.05	-
Aroclor 1248	µg/L	n/v	$_{s14}$[GH]	<0.05	<0.05	-	-	<0.05	-	<0.05	-	<0.05	<0.05	-	-	<0.05	-
Aroclor 1254	µg/L	n/v	$_{s14}$[GH]	<0.05	<0.05	-	-	<0.05	-	<0.05	-	<0.05	<0.05	-	-	<0.05	-
Aroclor 1260	µg/L	n/v	$_{s14}$[GH]	<0.05	<0.05	-	-	<0.05	-	<0.05	-	<0.05	<0.05	-	-	<0.05	-
Polychlorinated Biphenyls (PCBs)	µg/L	3[B]	0.2_{s14}[GH]	<0.05	<0.05	-	-	<0.05	-	<0.05	-	<0.05	<0.05	-	-	<0.05	-

See notes on last page

Table 7
Summary of Groundwater Analytical Results - Monitoring Wells
Clarington Transformer Station
Hydro One Networks Inc.

Sample Location				MW5-14-S (Contd.)													
Sample Date				12-Apr-16	12-Apr-16	12-Apr-16	12-Apr-16	2-Nov-16	2-Nov-16	2-Nov-16	2-Nov-16	24-Apr-17	24-Apr-17	24-Apr-17	24-Apr-17	16-Oct-17	16-Oct-17
Sample ID				WG-160900764-20160412-AM03	WG-160900764-20160412-AM04	WG-160900764-20160412-AM03A	WG-160900764-20160412-AM04A	WG-160900764-20161102-AM10	WG-160900764-20161102-AM10A	WG-160900764-20161102-AM11	WG-160900764-20161102-AM11A	WG-160900764-20170424-KR-03	WG-160900764-20170424-KR-04	WG-160900764-20170424-KR-03A	WG-160900764-20170424-KR-04A	WG-160900764-20171016-RD01	WG-160900764-20171016-RD01A
Sampling Company				STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC
Laboratory				MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX
Laboratory Work Order				B673021	B673021	B673021	B673021	B6N8983	B6N8983	B6N8983	B6N8983	B782020	B782020	B782020	B782020	B7M9492	B7M9492
Laboratory Sample ID				CEK205	CEK207	CEK206	CEK208	DJO972	DJO973	DJO974	DJO975	EGP550	EGP552	EGP551	EGP553	FIQ040	FIQ041
Filtered				Field Filtered Metals	Field Filtered Metals	Lab Filtered SVOC	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Field Filtered Metals	Lab Filtered SVOC	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC
Sample Type	Units	ODWS	Ontario SCS		Field Duplicate		Field Duplicate						Field Duplicate		Field Duplicate		
Semi-Volatile Organic Compounds																	
Phthalates																	
Bis(2-Ethylhexyl)phthalate (DEHP)	µg/L	n/v	10[G] 10[H]	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Diethyl Phthalate	µg/L	n/v	30[G] 30[H]	<0.1	<0.1	<0.1	0.7	<0.1	<0.1	<0.1	0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dimethyl Phthalate	µg/L	n/v	30[G] 30[H]	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Polycyclic Aromatic Hydrocarbons																	
Acenaphthene	µg/L	n/v	4.1[G] 4.1[H]	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Acenaphthylene	µg/L	n/v	1[G] 1[H]	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Anthracene	µg/L	n/v	1[G] 1[H]	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(a)anthracene	µg/L	n/v	1[G] 1[H]	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(a)pyrene	µg/L	0.01[C]	0.01[G] 0.01[H]	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Benzo(b/j)fluoranthene	µg/L	n/v	0.1_{s2}[GH]	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(g,h,i)perylene	µg/L	n/v	0.2[G] 0.2[H]	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(k)fluoranthene	µg/L	n/v	0.1[G] 0.1[H]	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Chrysene	µg/L	n/v	0.1[G] 0.1[H]	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Dibenzo(a,h)anthracene	µg/L	n/v	0.2[G] 0.2[H]	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	µg/L	n/v	0.41[G] 0.41[H]	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Fluorene	µg/L	n/v	120[G] 120[H]	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Indeno(1,2,3-cd)pyrene	µg/L	n/v	0.2[G] 0.2[H]	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Methylnaphthalene (Total)	µg/L	n/v	3.2_{s3}[GH]	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28
Methylnaphthalene, 1-	µg/L	n/v	$_{s3}$[GH]	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Methylnaphthalene, 2-	µg/L	n/v	$_{s3}$[GH]	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Naphthalene	µg/L	n/v	7[G] 11[H]	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Phenanthrene	µg/L	n/v	1[G] 1[H]	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Pyrene	µg/L	n/v	4.1[G] 4.1[H]	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Remaining Semi-Volatile Organic Compounds																	
Biphenyl, 1,1'- (Biphenyl)	µg/L	n/v	0.5[G] 0.5[H]	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Bis(2-Chloroethyl)ether	µg/L	n/v	5[G] 5[H]	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Bis(2-Chloroisopropyl)ether	µg/L	n/v	120[G] 120[H]	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Chloroaniline, 4-	µg/L	n/v	10[G] 10[H]	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chlorophenol, 2- (ortho-Chlorophenol)	µg/L	n/v	8.9[G] 8.9[H]	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dichlorobenzidine, 3,3'-	µg/L	n/v	0.5[G] 0.5[H]	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Dichlorophenol, 2,4-	µg/L	900[C] 0.3_t[D]	20[G] 20[H]	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dimethylphenol, 2,4-	µg/L	n/v	59[G] 59[H]	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Dinitrophenol, 2,4-	µg/L	n/v	10[G] 10[H]	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Dinitrotoluene, 2,4-	µg/L	n/v	5_{t13}[GH]	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Dinitrotoluene, 2,6-	µg/L	n/v	5_{t13}[GH]	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Pentachlorophenol	µg/L	60[C] 30_t[D]	30[G] 30[H]	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Phenol	µg/L	n/v	890[G] 890[H]	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Trichlorobenzene, 1,2,4-	µg/L	n/v	3[G] 70[H]	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Trichlorophenol, 2,4,5-	µg/L	n/v	8.9[G] 8.9[H]	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Trichlorophenol, 2,4,6-	µg/L	5[C] 2_t[D]	2[G] 2[H]	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2

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Table 7
Summary of Groundwater Analytical Results - Monitoring Wells
Clarington Transformer Station
Hydro One Networks Inc.

Sample Location				MW5-14-S (Contd.)													
Sample Date				12-Apr-16	12-Apr-16	12-Apr-16	12-Apr-16	2-Nov-16	2-Nov-16	2-Nov-16	2-Nov-16	24-Apr-17	24-Apr-17	24-Apr-17	24-Apr-17	16-Oct-17	16-Oct-17
Sample ID				WG-160900764-20160412-AM03	WG-160900764-20160412-AM04	WG-160900764-20160412-AM03A	WG-160900764-20160412-AM04A	WG-160900764-20161102-AM10	WG-160900764-20161102-AM10A	WG-160900764-20161102-AM11	WG-160900764-20161102-AM11A	WG-160900764-20170424-KR-03	WG-160900764-20170424-KR-04	WG-160900764-20170424-KR-03A	WG-160900764-20170424-KR-04A	WG-160900764-20171016-RD01	WG-160900764-20171016-RD01A
Sampling Company				STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC
Laboratory				MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX
Laboratory Work Order				B673021	B673021	B673021	B673021	B6N8983	B6N8983	B6N8983	B6N8983	B782020	B782020	B782020	B782020	B7M9492	B7M9492
Laboratory Sample ID				CEK205	CEK207	CEK206	CEK208	DJO972	DJO973	DJO974	DJO975	EGP550	EGP552	EGP551	EGP553	FIQ040	FIQ041
Filtered				Field Filtered Metals	Field Filtered Metals	Lab Filtered SVOC	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Field Filtered Metals	Lab Filtered SVOC	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC
Sample Type	Units	ODWS	Ontario SCS		Field Duplicate		Field Duplicate						Field Duplicate		Field Duplicate		
Volatile Organic Compounds																	
Acetone	µg/L	n/v	2,700[G] 2,700[H]	<10	<10	-	-	<10	-	<10	-	<10	<10	-	-	<10	-
Bromodichloromethane	µg/L	n/v	16[G] 16[H]	<0.50	<0.50	-	-	<0.50	-	<0.50	-	<0.50	<0.50	-	-	<0.50	-
Bromoform (Tribromomethane)	µg/L	n/v	5[G] 25[H]	<1.0	<1.0	-	-	<1.0	-	<1.0	-	<1.0	<1.0	-	-	<1.0	-
Bromomethane (Methyl bromide)	µg/L	n/v	0.89[G] 0.89[H]	<0.50	<0.50	-	-	<0.50	-	<0.50	-	<0.50	<0.50	-	-	<0.50	-
Carbon Tetrachloride (Tetrachloromethane)	µg/L	2[C]	0.2[G] 0.79[H]	<0.20	<0.20	-	-	<0.20	-	<0.20	-	<0.20	<0.20	-	-	<0.20	-
Chlorobenzene (Monochlorobenzene)	µg/L	80[C] 30[D]	30[G] 30[H]	<0.20	<0.20	-	-	<0.20	-	<0.20	-	<0.20	<0.20	-	-	<0.20	-
Chloroform (Trichloromethane)	µg/L	n/v	2[G] 2.4[H]	<0.20	<0.20	-	-	<0.20	-	<0.20	-	<0.20	<0.20	-	-	<0.20	-
Dibromochloromethane	µg/L	n/v	25[G] 25[H]	<0.50	<0.50	-	-	<0.50	-	<0.50	-	<0.50	<0.50	-	-	<0.50	-
Dichlorobenzene, 1,2-	µg/L	200[C] 3[D]	3[G] 3[H]	<0.50	<0.50	-	-	<0.50	-	<0.50	-	<0.50	<0.50	-	-	<0.50	-
Dichlorobenzene, 1,3-	µg/L	n/v	59[G] 59[H]	<0.50	<0.50	-	-	<0.50	-	<0.50	-	<0.50	<0.50	-	-	<0.50	-
Dichlorobenzene, 1,4-	µg/L	5[C] 1[D]	0.5[G] 1[H]	<0.50	<0.50	-	-	<0.50	-	<0.50	-	<0.50	<0.50	-	-	<0.50	-
Dichlorodifluoromethane (Freon 12)	µg/L	n/v	590[G] 590[H]	<1.0	<1.0	-	-	<1.0	-	<1.0	-	<1.0	<1.0	-	-	<1.0	-
Dichloroethane, 1,1-	µg/L	n/v	5[G] 5[H]	<0.20	<0.20	-	-	<0.20	-	<0.20	-	<0.20	<0.20	-	-	<0.20	-
Dichloroethane, 1,2-	µg/L	5[B]	0.5[G] 1.6[H]	<0.50	<0.50	-	-	<0.50	-	<0.50	-	<0.50	<0.50	-	-	<0.50	-
Dichloroethene, 1,1-	µg/L	14[C]	0.5[G] 1.6[H]	<0.20	<0.20	-	-	<0.20	-	<0.20	-	<0.20	<0.20	-	-	<0.20	-
Dichloroethene, cis-1,2-	µg/L	n/v	1.6[G] 1.6[H]	<0.50	<0.50	-	-	<0.50	-	<0.50	-	<0.50	<0.50	-	-	<0.50	-
Dichloroethene, trans-1,2-	µg/L	n/v	1.6[G] 1.6[H]	<0.50	<0.50	-	-	<0.50	-	<0.50	-	<0.50	<0.50	-	-	<0.50	-
Dichloropropane, 1,2-	µg/L	n/v	0.58[G] 5[H]	<0.20	<0.20	-	-	<0.20	-	<0.20	-	<0.20	<0.20	-	-	<0.20	-
Dichloropropene, 1,3- (sum of isomers cis + trans)	µg/L	n/v	0.5[s11 GH]	<0.50	<0.50	-	-	<0.50	-	<0.50	-	<0.50	<0.50	-	-	<0.50	-
Dichloropropene, cis-1,3-	µg/L	n/v	[s11 GH]	<0.30	<0.30	-	-	<0.30	-	<0.30	-	<0.30	<0.30	-	-	<0.30	-
Dichloropropene, trans-1,3-	µg/L	n/v	[s11 GH]	<0.40	<0.40	-	-	<0.40	-	<0.40	-	<0.40	<0.40	-	-	<0.40	-
Ethylene Dibromide (Dibromoethane, 1,2-)	µg/L	n/v	0.2[G] 0.2[H]	<0.20	<0.20	-	-	<0.20	-	<0.20	-	<0.20	<0.20	-	-	<0.20	-
Hexane (n-Hexane)	µg/L	n/v	5[G] 51[H]	<1.0	<1.0	-	-	<1.0	-	<1.0	-	<1.0	<1.0	-	-	<1.0	-
Methyl Ethyl Ketone (MEK) (2-Butanone)	µg/L	n/v	1,800[G] 1,800[H]	<10	<10	-	-	<10	-	<10	-	<10	<10	-	-	<10	-
Methyl Isobutyl Ketone (MIBK)	µg/L	n/v	640[G] 640[H]	<5.0	<5.0	-	-	<5.0	-	<5.0	-	<5.0	<5.0	-	-	<5.0	-
Methyl tert-butyl ether (MTBE)	µg/L	n/v	15[G] 15[H]	<0.50	<0.50	-	-	<0.50	-	<0.50	-	<0.50	<0.50	-	-	<0.50	-
Methylene Chloride (Dichloromethane)	µg/L	50[C]	26[G] 50[H]	<2.0	<2.0	-	-	<2.0	-	<2.0	-	<2.0	<2.0	-	-	<2.0	-
Styrene	µg/L	n/v	5.4[G] 5.4[H]	<0.50	<0.50	-	-	<0.50	-	<0.50	-	<0.50	<0.50	-	-	<0.50	-
Tetrachloroethane, 1,1,1,2-	µg/L	n/v	1.1[G] 1.1[H]	<0.50	<0.50	-	-	<0.50	-	<0.50	-	<0.50	<0.50	-	-	<0.50	-
Tetrachloroethane, 1,1,2,2-	µg/L	n/v	0.5[G] 1[H]	<0.50	<0.50	-	-	<0.50	-	<0.50	-	<0.50	<0.50	-	-	<0.50	-
Tetrachloroethene (PCE)	µg/L	30[C]	0.5[G] 1.6[H]	<0.20	<0.20	-	-	<0.20	-	<0.20	-	<0.20	<0.20	-	-	<0.20	-
Trichloroethane, 1,1,1-	µg/L	n/v	23[G] 200[H]	<0.20	<0.20	-	-	<0.20	-	<0.20	-	<0.20	<0.20	-	-	<0.20	-
Trichloroethane, 1,1,2-	µg/L	n/v	0.5[G] 4.7[H]	<0.50	<0.50	-	-	<0.50	-	<0.50	-	<0.50	<0.50	-	-	<0.50	-
Trichloroethene (TCE)	µg/L	5[C]	0.5[G] 1.6[H]	<0.20	<0.20	-	-	<0.20	-	<0.20	-	<0.20	<0.20	-	-	<0.20	-
Trichlorofluoromethane (Freon 11)	µg/L	n/v	150[G] 150[H]	<0.50	<0.50	-	-	<0.50	-	<0.50	-	<0.50	<0.50	-	-	<0.50	-
Trihalomethanes	µg/L	100[e C]	n/v	-	-	-	-	-	-	-	-	-	-	-	-	<1.0	-
Vinyl Chloride	µg/L	1[C]	0.5[G] 0.5[H]	<0.20	<0.20	-	-	<0.20	-	<0.20	-	<0.20	<0.20	-	-	<0.20	-

See notes on last page

Table 7
Summary of Groundwater Analytical Results - Monitoring Wells
Clarington Transformer Station
Hydro One Networks Inc.

Sample Location				MW5-14-S (2)													
Sample Date				3-Feb-15	3-Feb-15	10-Apr-15	10-Apr-15	6-Oct-15	6-Oct-15	6-Oct-15	6-Oct-15	12-Apr-16	12-Apr-16	2-Nov-16	2-Nov-16	24-Apr-17	24-Apr-17
Sample ID				WG-160900764-20150203-RD03	WG-160900764-20150203-RD03A	WG-160900764-20150410-RD010	WG-160900764-20150410-RD10A	WG-160900764-2015106-RD07	WG-160900764-2015106-RD08	WG-160900764-2015106-RD07A	WG-160900764-2015106-RD08A	WG-160900764-20160412-AM02	WG-160900764-20160412-AM02A	WG-160900764-20161102-AM08	WG-160900764-20161102-AM08A	WG-160900764-20170424-KR-02	WG-160900764-20170424-KR-02A
Sampling Company				STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC
Laboratory				MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX
Laboratory Work Order				B520805	B520805	B563828	B563828	B5K3284	B5K3284	B5K3284	B5K3284	B673021	B673021	B6N8983	B6N8983	B782020	B782020
Laboratory Sample ID				ZK6641	ZK6642	ABZ560	ABZ561	BCP428	BCP430	BCP429	BCP431	CEK203	CEK204	DJO968	DJO969	EGP548	EGP549
Filtered				Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Field Filtered Metals	Lab Filtered SVOC	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC
Sample Type	Units	ODWS	Ontario SCS						Field Duplicate		Field Duplicate						
General Chemistry																	
Acidity	mg/L	n/v	n/v	30	-	15	-	19	17	-	-	29	-	36	-	28	-
Alkalinity, Bicarbonate (as CaCO3)	mg/L	n/v	n/v	200	-	200	-	210	210	-	-	260	-	250	-	250	-
Alkalinity, Carbonate (as CaCO3)	mg/L	n/v	n/v	1.6	-	1.2	-	<1.0	<1.0	-	-	1.5	-	1.9	-	1.7	-
Alkalinity, Total (as CaCO3)	mg/L	30-500[E]	n/v	200	-	200	-	210	210	-	-	260	-	250	-	250	-
Ammonia (as N)	mg/L	n/v	n/v	<0.050	-	<0.05	-	<0.050	<0.050	-	-	<0.050	-	<0.050	-	<0.050	-
Anion Sum	meq/L	n/v	n/v	5.70	-	5.59	-	5.60	5.55	-	-	6.46	-	6.09	-	7.12	-
Cation Sum	meq/L	n/v	n/v	5.68	-	5.49	-	5.87	5.61	-	-	6.52	-	6.02	-	6.54	-
Chloride	mg/L	250[D]	790[G] 790[H]	8	-	8	-	7.0	6.8	-	-	15	-	9.6	-	47	-
Cyanide (Free)	µg/L	200[C]	52[G] 52[H]	<2	-	<2	-	<2	<2	-	-	<2	-	<1	-	<1	-
Dissolved Organic Carbon (DOC)	mg/L	5[D]	n/v	1.2	-	0.69	-	0.87	0.86	-	-	0.93	-	0.88	-	0.87	-
Electrical Conductivity, Lab	µmhos/cm	n/v	n/a[GH]	550	-	540	-	540	530	-	-	620	-	580	-	730	-
Fluoride	mg/L	1.5$_b$[C]	n/v	<0.10	-	<0.1	-	<0.10	<0.10	-	-	<0.10	-	<0.10	-	<0.10	-
Hardness (as CaCO3)	mg/L	80-100[E]	n/v	**280[E]**	-	**270[E]**	-	**280[E]**	**270[E]**	-	-	**280[E]**	-	**290[E]**	-	**310[E]**	-
Ion Balance	%	n/v	n/v	0.180	-	0.890	-	2.35	0.540	-	-	0.480	-	0.610	-	4.22	-
Langelier Index (at 20 C)	none	n/v	n/v	0.800	-	0.633	-	0.499	0.463	-	-	0.773	-	0.874	-	0.839	-
Langelier Index (at 4 C)	none	n/v	n/v	0.551	-	0.384	-	0.250	0.214	-	-	0.524	-	0.625	-	0.591	-
Nitrate (as N)	mg/L	10.0$_d$[C]	n/v	**14.3[C]**	-	**13.9[C]**	-	**11.1[C]**	**11.2[C]**	-	-	6.25	-	6.40	-	5.26	-
Nitrate + Nitrite (as N)	mg/L	10.0$_d$[C]	n/v	**14.3[C]**	-	**13.9[C]**	-	**11.1[C]**	**11.2[C]**	-	-	6.25	-	6.40	-	5.26	-
Nitrite (as N)	mg/L	1.0$_d$[C]	n/v	<0.010	-	<0.01	-	<0.010	<0.010	-	-	<0.010	-	<0.010	-	<0.010	-
Orthophosphate(as P)	mg/L	n/v	n/v	<0.010	-	<0.01	-	<0.010	<0.010	-	-	<0.010	-	<0.010	-	<0.010	-
pH	S.U.	6.5-8.5[E]	n/v	7.94	-	7.81	-	7.62	7.61	-	-	7.79	-	7.90	-	7.87	-
Saturation pH (at 20 C)	none	n/v	n/v	7.14	-	7.18	-	7.12	7.15	-	-	7.02	-	7.03	-	7.03	-
Saturation pH (at 4 C)	none	n/v	n/v	7.39	-	7.43	-	7.37	7.40	-	-	7.27	-	7.28	-	7.28	-
Sulfate	mg/L	500$_h$[D]	n/v	18	-	20	-	19	19	-	-	16	-	15	-	21	-
Total Dissolved Solids	mg/L	500[D]	n/v	310	-	328	-	334	334	-	-	350	-	332	-	474	-
Total Dissolved Solids (Calculated)	mg/L	500[D]	n/v	330	-	320	-	330	320	-	-	360	-	330	-	380	-
Total Organic Carbon	mg/L	n/v	n/v	1.0	-	0.71	-	0.82	0.81	-	-	1.1	-	0.78	-	0.70	-
Total Suspended Solids	mg/L	n/v	n/v	14	-	85	-	<10	<10	-	-	<10	-	29	-	<10	-
Turbidity, Lab	NTU	5$_j$[D, E]	n/v	**19[D]**	-	**6.7[D]**	-	2.1	**7.1[D]**	-	-	**11[D]**	-	**18[D]**	-	4.6	-
BTEX and Petroleum Hydrocarbons																	
Benzene	µg/L	1[C]	0.5[G] 5[H]	<0.20	-	<0.2	-	<0.20	<0.20	-	-	<0.20	-	<0.20	-	<0.20	-
Toluene	µg/L	24[D]	24[G] 22[H]	<0.20	-	<0.2	-	<0.20	<0.20	-	-	<0.20	-	<0.20	-	<0.20	-
Ethylbenzene	µg/L	2.4[D]	2.4[G] 2.4[H]	<0.20	-	<0.2	-	<0.20	<0.20	-	-	<0.20	-	<0.20	-	<0.20	-
Xylene, m & p-	µg/L	300$_{s1}$[D]	$_{s1}$[GH]	<0.20	-	<0.2	-	<0.20	<0.20	-	-	<0.20	-	<0.20	-	<0.20	-
Xylene, o-	µg/L	300$_{s1}$[D]	$_{s1}$[GH]	<0.20	-	<0.2	-	<0.20	<0.20	-	-	<0.20	-	<0.20	-	<0.20	-
Xylenes, Total	µg/L	300[D]	72$_{s1}$[G] 300$_{s1}$[H]	<0.20	-	<0.2	-	<0.20	<0.20	-	-	<0.20	-	<0.20	-	<0.20	-
PHC F1 (C6-C10 range)	µg/L	n/v	$_{s7}$[GH]	<25	-	<25	-	<25	<25	-	-	<25	-	<25	-	<25	-
PHC F1 (C6-C10 range) minus BTEX	µg/L	n/v	420$_{s7}$[GH]	<25	-	<25	-	<25	<25	-	-	<25	-	<25	-	<25	-
PHC F2 (>C10-C16 range)	µg/L	n/v	150$_{s15}$[GH]	<100	-	<100	-	<100	<100	-	-	<100	-	<100	-	<100	-
PHC F3 (>C16-C34 range)	µg/L	n/v	500$_{s8}$[GH]	<200	-	<200	-	<200	<200	-	-	<200	-	<200	-	<200	-
PHC F4 (>C34-C50 range)	µg/L	n/v	500$_{s10}$[GH]	<200	-	<200	-	<200	<200	-	-	<200	-	<200	-	<200	-
Chromatogram to baseline at C50	none	n/v	n/v	YES	-	YES	-	YES	YES	-	-	YES	-	YES	-	YES	-

See notes on last page

Table 7
Summary of Groundwater Analytical Results - Monitoring Wells
Clarington Transformer Station
Hydro One Networks Inc.

Sample Location				MW5-14-S (2)													
Sample Date				3-Feb-15	3-Feb-15	10-Apr-15	10-Apr-15	6-Oct-15	6-Oct-15	6-Oct-15	6-Oct-15	12-Apr-16	12-Apr-16	2-Nov-16	2-Nov-16	24-Apr-17	24-Apr-17
Sample ID				WG-160900764-20150203-RD03	WG-160900764-20150203-RD03A	WG-160900764-20150410-RD010	WG-160900764-20150410-RD10A	WG-160900764-2015106-RD07	WG-160900764-2015106-RD08	WG-160900764-2015106-RD07A	WG-160900764-2015106-RD08A	WG-160900764-20160412-AM02	WG-160900764-20160412-AM02A	WG-160900764-20161102-AM08	WG-160900764-20161102-AM08A	WG-160900764-20170424-KR-02	WG-160900764-20170424-KR-02A
Sampling Company				STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC
Laboratory				MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX
Laboratory Work Order				B520805	B520805	B563828	B563828	B5K3284	B5K3284	B5K3284	B5K3284	B673021	B673021	B6N8983	B6N8983	B782020	B782020
Laboratory Sample ID				ZK6641	ZK6642	ABZ560	ABZ561	BCP428	BCP430	BCP429	BCP431	CEK203	CEK204	DJO968	DJO969	EGP548	EGP549
Filtered				Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Field Filtered Metals	Lab Filtered SVOC	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC
Sample Type	Units	ODWS	Ontario SCS						Field Duplicate		Field Duplicate						
Metals																	
Aluminum	µg/L	100[E]	n/v	<5	-	<5	-	<5.0	<5.0	-	-	<5	-	<5	-	<5.0	-
Antimony	µg/L	6[B]	6[G] 6[H]	<0.5	-	<0.5	-	<0.5	<0.5	-	-	<0.5	-	<0.5	-	<0.50	-
Arsenic	µg/L	25[B]	25[G] 25[H]	<1	-	<1	-	<1	<1	-	-	<1	-	<1	-	<1.0	-
Barium	µg/L	1,000[C]	1,000[G] 1,000[H]	32	-	29	-	33	32	-	-	29	-	35	-	30	-
Beryllium	µg/L	n/v	4[G] 4[H]	<0.5	-	<0.5	-	<0.5	<0.5	-	-	<0.5	-	<0.5	-	<0.50	-
Boron	µg/L	5,000[B]	5,000[G] 5,000[H]	17	-	<10	-	<10	<10	-	-	<10	-	<10	-	<10.0	-
Cadmium	µg/L	5[C]	2.1[G] 2.1[H]	<0.1	-	<0.1	-	<0.1	<0.1	-	-	<0.1	-	<0.1	-	<0.10	-
Calcium	µg/L	n/v	n/v	95,000	-	89,000	-	96,000	92,000	-	-	100,000	-	99,000	-	110,000	-
Chromium	µg/L	50[C]	50[G] 50[H]	<5	-	<5	-	<5.0	<5.0	-	-	<5	-	<5	-	<5.0	-
Chromium (Hexavalent)	µg/L	n/v	25[G] 25[H]	<0.50	-	0.57	-	0.90	1.0	-	-	0.64	-	0.63	-	0.63	-
Cobalt	µg/L	n/v	3.8[G] 3.8[H]	<0.5	-	<0.5	-	<0.5	<0.5	-	-	<0.5	-	<0.5	-	<0.50	-
Copper	µg/L	1,000[D]	69[G] 69[H]	<1	-	5.2	-	<1	<1	-	-	<1	-	1.4	-	<1.0	-
Iron	µg/L	300[D]	n/v	<100	-	<100	-	<100	<100	-	-	<100	-	<100	-	<100	-
Lead	µg/L	10_c[C]	10[G] 10[H]	<0.5	-	<0.5	-	<0.5	<0.5	-	-	<0.5	-	<0.5	-	<0.50	-
Magnesium	µg/L	n/v	n/v	9,600	-	11,000	-	11,000	11,000	-	-	7,900	-	11,000	-	9,900	-
Manganese	µg/L	50[D]	n/v	14	-	4.7	-	<2	<2	-	-	<2	-	<2	-	<2.0	-
Mercury	µg/L	1[C]	0.1[G] 0.29[H]	<0.1	-	<0.1	-	<0.1	<0.1	-	-	<0.1	-	<0.1	-	<0.1	-
Molybdenum	µg/L	n/v	70[G] 70[H]	2.1	-	1.2	-	1.1	1	-	-	1.9	-	<0.5	-	0.93	-
Nickel	µg/L	n/v	100[G] 100[H]	<1	-	1.5	-	<1	<1	-	-	<1	-	<1	-	<1.0	-
Phosphorus	µg/L	n/v	n/v	<100	-	<100	-	<100	<100	-	-	<100	-	<100	-	<100	-
Potassium	µg/L	n/v	n/v	1,300	-	1,100	-	1,300	1,200	-	-	1,400	-	990	-	1,100	-
Selenium	µg/L	10[C]	10[G] 10[H]	<2	-	<2	-	<2	<2	-	-	<2	-	<2	-	<2.0	-
Silicon	µg/L	n/v	n/v	4,600	-	4,600	-	5,900	5,700	-	-	4,600	-	6,100	-	4,400	-
Silver	µg/L	n/v	1.2[G] 1.2[H]	<0.1	-	<0.1	-	<0.1	<0.1	-	-	<0.1	-	<0.1	-	<0.10	-
Sodium	µg/L	$200{,}000_g$[D] $20{,}000_g$[F]	490,000[G] 490,000[H]	3,200	-	2,800	-	3,300	3,100	-	-	20,000	-	3,100	-	6,200	-
Strontium	µg/L	n/v	n/v	190	-	180	-	180	180	-	-	190	-	190	-	220	-
Thallium	µg/L	n/v	2[G] 2[H]	<0.05	-	<0.05	-	<0.05	<0.05	-	-	<0.05	-	<0.05	-	<0.050	-
Titanium	µg/L	n/v	n/v	<5	-	<5	-	<5.0	<5.0	-	-	<5	-	<5	-	<5.0	-
Uranium	µg/L	20[C]	20[G] 20[H]	0.51	-	0.34	-	0.37	0.35	-	-	1.3	-	0.36	-	1.3	-
Vanadium	µg/L	n/v	6.2[G] 6.2[H]	<0.5	-	<0.5	-	<0.5	<0.5	-	-	<0.5	-	<0.5	-	<0.50	-
Zinc	µg/L	5,000[D]	890[G] 890[H]	<5	-	21	-	<5.0	<5.0	-	-	37	-	<5	-	<5.0	-
Zirconium	µg/L	n/v	n/v	<1	-	<1	-	<1	<1	-	-	<1	-	<1	-	<1.0	-
Polychlorinated Biphenyls																	
Aroclor 1242	µg/L	n/v	$_{s14}$[GH]	<0.05	-	<0.05	-	<0.05	<0.05	-	-	<0.05	-	<0.05	-	<0.05	-
Aroclor 1248	µg/L	n/v	$_{s14}$[GH]	<0.05	-	<0.05	-	<0.05	<0.05	-	-	<0.05	-	<0.05	-	<0.05	-
Aroclor 1254	µg/L	n/v	$_{s14}$[GH]	<0.05	-	<0.05	-	<0.05	<0.05	-	-	<0.05	-	<0.05	-	<0.05	-
Aroclor 1260	µg/L	n/v	$_{s14}$[GH]	<0.05	-	<0.05	-	<0.05	<0.05	-	-	<0.05	-	<0.05	-	<0.05	-
Polychlorinated Biphenyls (PCBs)	µg/L	3[B]	0.2_{s14}[GH]	<0.05	-	<0.05	-	<0.05	<0.05	-	-	<0.05	-	<0.05	-	<0.05	-

See notes on last page

Table 7
Summary of Groundwater Analytical Results - Monitoring Wells
Clarington Transformer Station
Hydro One Networks Inc.

Sample Location				MW5-14-S (2)													
Sample Date				3-Feb-15	3-Feb-15	10-Apr-15	10-Apr-15	6-Oct-15	6-Oct-15	6-Oct-15	6-Oct-15	12-Apr-16	12-Apr-16	2-Nov-16	2-Nov-16	24-Apr-17	24-Apr-17
Sample ID				WG-160900764-20150203-RD03	WG-160900764-20150203-RD03A	WG-160900764-20150410-RD010	WG-160900764-20150410-RD10A	WG-160900764-2015106-RD07	WG-160900764-2015106-RD08	WG-160900764-2015106-RD07A	WG-160900764-2015106-RD08A	WG-160900764-20160412-AM02	WG-160900764-20160412-AM02A	WG-160900764-20161102-AM08	WG-160900764-20161102-AM08A	WG-160900764-20170424-KR-02	WG-160900764-20170424-KR-02A
Sampling Company				STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC
Laboratory				MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX
Laboratory Work Order				B520805	B520805	B563828	B563828	B5K3284	B5K3284	B5K3284	B5K3284	B673021	B673021	B6N8983	B6N8983	B782020	B782020
Laboratory Sample ID				ZK6641	ZK6642	ABZ560	ABZ561	BCP428	BCP430	BCP429	BCP431	CEK203	CEK204	DJO968	DJO969	EGP548	EGP549
Filtered				Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Field Filtered Metals	Lab Filtered SVOC	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC
Sample Type	Units	ODWS	Ontario SCS						Field Duplicate		Field Duplicate						
Semi-Volatile Organic Compounds																	
Phthalates																	
Bis(2-Ethylhexyl)phthalate (DEHP)	µg/L	n/v	10[G] 10[H]	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Diethyl Phthalate	µg/L	n/v	30[G] 30[H]	<0.1	0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dimethyl Phthalate	µg/L	n/v	30[G] 30[H]	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Polycyclic Aromatic Hydrocarbons																	
Acenaphthene	µg/L	n/v	4.1[G] 4.1[H]	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Acenaphthylene	µg/L	n/v	1[G] 1[H]	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Anthracene	µg/L	n/v	1[G] 1[H]	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(a)anthracene	µg/L	n/v	1[G] 1[H]	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(a)pyrene	µg/L	0.01[C]	0.01[G] 0.01[H]	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Benzo(b/j)fluoranthene	µg/L	n/v	0.1_{s2}[GH]	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(g,h,i)perylene	µg/L	n/v	0.2[G] 0.2[H]	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(k)fluoranthene	µg/L	n/v	0.1[G] 0.1[H]	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Chrysene	µg/L	n/v	0.1[G] 0.1[H]	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Dibenzo(a,h)anthracene	µg/L	n/v	0.2[G] 0.2[H]	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	µg/L	n/v	0.41[G] 0.41[H]	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Fluorene	µg/L	n/v	120[G] 120[H]	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Indeno(1,2,3-cd)pyrene	µg/L	n/v	0.2[G] 0.2[H]	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Methylnaphthalene (Total)	µg/L	n/v	3.2_{s3}[GH]	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28
Methylnaphthalene, 1-	µg/L	n/v	$_{s3}$[GH]	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Methylnaphthalene, 2-	µg/L	n/v	$_{s3}$[GH]	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Naphthalene	µg/L	n/v	7[G] 11[H]	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Phenanthrene	µg/L	n/v	1[G] 1[H]	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Pyrene	µg/L	n/v	4.1[G] 4.1[H]	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Remaining Semi-Volatile Organic Compounds																	
Biphenyl, 1,1'- (Biphenyl)	µg/L	n/v	0.5[G] 0.5[H]	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Bis(2-Chloroethyl)ether	µg/L	n/v	5[G] 5[H]	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Bis(2-Chloroisopropyl)ether	µg/L	n/v	120[G] 120[H]	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Chloroaniline, 4-	µg/L	n/v	10[G] 10[H]	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chlorophenol, 2- (ortho-Chlorophenol)	µg/L	n/v	8.9[G] 8.9[H]	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dichlorobenzidine, 3,3'-	µg/L	n/v	0.5[G] 0.5[H]	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Dichlorophenol, 2,4-	µg/L	900[C] 0.3_t[D]	20[G] 20[H]	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dimethylphenol, 2,4-	µg/L	n/v	59[G] 59[H]	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Dinitrophenol, 2,4-	µg/L	n/v	10[G] 10[H]	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Dinitrotoluene, 2,4-	µg/L	n/v	5_{t13}[GH]	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Dinitrotoluene, 2,6-	µg/L	n/v	5_{t13}[GH]	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Pentachlorophenol	µg/L	60[C] 30_t[D]	30[G] 30[H]	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Phenol	µg/L	n/v	890[G] 890[H]	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Trichlorobenzene, 1,2,4-	µg/L	n/v	3[G] 70[H]	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Trichlorophenol, 2,4,5-	µg/L	n/v	8.9[G] 8.9[H]	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Trichlorophenol, 2,4,6-	µg/L	5[C] 2_t[D]	2[G] 2[H]	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2

See notes on last page

Table 7
Summary of Groundwater Analytical Results - Monitoring Wells
Clarington Transformer Station
Hydro One Networks Inc.

Sample Location				MW5-14-S (2)													
Sample Date				3-Feb-15	3-Feb-15	10-Apr-15	10-Apr-15	6-Oct-15	6-Oct-15	6-Oct-15	6-Oct-15	12-Apr-16	12-Apr-16	2-Nov-16	2-Nov-16	24-Apr-17	24-Apr-17
Sample ID				WG-160900764-20150203-RD03	WG-160900764-20150203-RD03A	WG-160900764-20150410-RD010	WG-160900764-20150410-RD10A	WG-160900764-2015106-RD07	WG-160900764-2015106-RD08	WG-160900764-2015106-RD07A	WG-160900764-2015106-RD08A	WG-160900764-20160412-AM02	WG-160900764-20160412-AM02A	WG-160900764-20161102-AM08	WG-160900764-20161102-AM08A	WG-160900764-20170424-KR-02	WG-160900764-20170424-KR-02A
Sampling Company				STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC
Laboratory				MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX
Laboratory Work Order				B520805	B520805	B563828	B563828	B5K3284	B5K3284	B5K3284	B5K3284	B673021	B673021	B6N8983	B6N8983	B782020	B782020
Laboratory Sample ID				ZK6641	ZK6642	ABZ560	ABZ561	BCP428	BCP430	BCP429	BCP431	CEK203	CEK204	DJO968	DJO969	EGP548	EGP549
Filtered				Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Field Filtered Metals	Lab Filtered SVOC	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC
Sample Type	Units	ODWS	Ontario SCS						Field Duplicate		Field Duplicate						
Volatile Organic Compounds																	
Acetone	µg/L	n/v	2,700[G] 2,700[H]	<10	-	<10	-	<10	<10	-	-	<10	-	<10	-	<10	-
Bromodichloromethane	µg/L	n/v	16[G] 16[H]	<0.50	-	<0.5	-	<0.50	<0.50	-	-	<0.50	-	<0.50	-	<0.50	-
Bromoform (Tribromomethane)	µg/L	n/v	5[G] 25[H]	<1.0	-	<1	-	<1.0	<1.0	-	-	<1.0	-	<1.0	-	<1.0	-
Bromomethane (Methyl bromide)	µg/L	n/v	0.89[G] 0.89[H]	<0.50	-	<0.5	-	<0.50	<0.50	-	-	<0.50	-	<0.50	-	<0.50	-
Carbon Tetrachloride (Tetrachloromethane)	µg/L	2[C]	0.2[G] 0.79[H]	<0.20	-	<0.2	-	<0.20	<0.20	-	-	<0.20	-	<0.20	-	<0.20	-
Chlorobenzene (Monochlorobenzene)	µg/L	80[C] 30[I,D]	30[G] 30[H]	<0.20	-	<0.2	-	<0.20	<0.20	-	-	<0.20	-	<0.20	-	<0.20	-
Chloroform (Trichloromethane)	µg/L	n/v	2[G] 2.4[H]	<0.20	-	<0.2	-	<0.20	<0.20	-	-	<0.20	-	<0.20	-	<0.20	-
Dibromochloromethane	µg/L	n/v	25[G] 25[H]	<0.50	-	<0.5	-	<0.50	<0.50	-	-	<0.50	-	<0.50	-	<0.50	-
Dichlorobenzene, 1,2-	µg/L	200[C] 3[I,D]	3[G] 3[H]	<0.50	-	<0.5	-	<0.50	<0.50	-	-	<0.50	-	<0.50	-	<0.50	-
Dichlorobenzene, 1,3-	µg/L	n/v	59[G] 59[H]	<0.50	-	<0.5	-	<0.50	<0.50	-	-	<0.50	-	<0.50	-	<0.50	-
Dichlorobenzene, 1,4-	µg/L	5[C] 1[I,D]	0.5[G] 1[H]	<0.50	-	<0.5	-	<0.50	<0.50	-	-	<0.50	-	<0.50	-	<0.50	-
Dichlorodifluoromethane (Freon 12)	µg/L	n/v	590[G] 590[H]	<1.0	-	<1	-	<1.0	<1.0	-	-	<1.0	-	<1.0	-	<1.0	-
Dichloroethane, 1,1-	µg/L	n/v	5[G] 5[H]	<0.20	-	<0.2	-	<0.20	<0.20	-	-	<0.20	-	<0.20	-	<0.20	-
Dichloroethane, 1,2-	µg/L	5[B]	0.5[G] 1.6[H]	<0.50	-	<0.5	-	<0.50	<0.50	-	-	<0.50	-	<0.50	-	<0.50	-
Dichloroethene, 1,1-	µg/L	14[C]	0.5[G] 1.6[H]	<0.20	-	<0.2	-	<0.20	<0.20	-	-	<0.20	-	<0.20	-	<0.20	-
Dichloroethene, cis-1,2-	µg/L	n/v	1.6[G] 1.6[H]	<0.50	-	<0.5	-	<0.50	<0.50	-	-	<0.50	-	<0.50	-	<0.50	-
Dichloroethene, trans-1,2-	µg/L	n/v	1.6[G] 1.6[H]	<0.50	-	<0.5	-	<0.50	<0.50	-	-	<0.50	-	<0.50	-	<0.50	-
Dichloropropane, 1,2-	µg/L	n/v	0.58[G] 5[H]	<0.20	-	<0.2	-	<0.20	<0.20	-	-	<0.20	-	<0.20	-	<0.20	-
Dichloropropene, 1,3- (sum of isomers cis + trans)	µg/L	n/v	0.5[s11 GH]	<0.50	-	<0.5	-	<0.50	<0.50	-	-	<0.50	-	<0.50	-	<0.50	-
Dichloropropene, cis-1,3-	µg/L	n/v	[s11 GH]	<0.30	-	<0.3	-	<0.30	<0.30	-	-	<0.30	-	<0.30	-	<0.30	-
Dichloropropene, trans-1,3-	µg/L	n/v	[s11 GH]	<0.40	-	<0.4	-	<0.40	<0.40	-	-	<0.40	-	<0.40	-	<0.40	-
Ethylene Dibromide (Dibromoethane, 1,2-)	µg/L	n/v	0.2[G] 0.2[H]	<0.20	-	<0.2	-	<0.20	<0.20	-	-	<0.20	-	<0.20	-	<0.20	-
Hexane (n-Hexane)	µg/L	n/v	5[G] 51[H]	<1.0	-	<1	-	<1.0	<1.0	-	-	<1.0	-	<1.0	-	<1.0	-
Methyl Ethyl Ketone (MEK) (2-Butanone)	µg/L	n/v	1,800[G] 1,800[H]	<10	-	<10	-	<10	<10	-	-	<10	-	<10	-	<10	-
Methyl Isobutyl Ketone (MIBK)	µg/L	n/v	640[G] 640[H]	<5.0	-	<5	-	<5.0	<5.0	-	-	<5.0	-	<5.0	-	<5.0	-
Methyl tert-butyl ether (MTBE)	µg/L	n/v	15[G] 15[H]	<0.50	-	<0.5	-	<0.50	<0.50	-	-	<0.50	-	<0.50	-	<0.50	-
Methylene Chloride (Dichloromethane)	µg/L	50[C]	26[G] 50[H]	<2.0	-	<2	-	<2.0	<2.0	-	-	<2.0	-	<2.0	-	<2.0	-
Styrene	µg/L	n/v	5.4[G] 5.4[H]	<0.50	-	<0.5	-	<0.50	<0.50	-	-	<0.50	-	<0.50	-	<0.50	-
Tetrachloroethane, 1,1,1,2-	µg/L	n/v	1.1[G] 1.1[H]	<0.50	-	<0.5	-	<0.50	<0.50	-	-	<0.50	-	<0.50	-	<0.50	-
Tetrachloroethane, 1,1,2,2-	µg/L	n/v	0.5[G] 1[H]	<0.50	-	<0.5	-	<0.50	<0.50	-	-	<0.50	-	<0.50	-	<0.50	-
Tetrachloroethene (PCE)	µg/L	30[C]	0.5[G] 1.6[H]	<0.20	-	<0.2	-	<0.20	<0.20	-	-	<0.20	-	<0.20	-	<0.20	-
Trichloroethane, 1,1,1-	µg/L	n/v	23[G] 200[H]	<0.20	-	<0.2	-	<0.20	<0.20	-	-	<0.20	-	<0.20	-	<0.20	-
Trichloroethane, 1,1,2-	µg/L	n/v	0.5[G] 4.7[H]	<0.50	-	<0.5	-	<0.50	<0.50	-	-	<0.50	-	<0.50	-	<0.50	-
Trichloroethene (TCE)	µg/L	5[C]	0.5[G] 1.6[H]	<0.20	-	<0.2	-	<0.20	<0.20	-	-	<0.20	-	<0.20	-	<0.20	-
Trichlorofluoromethane (Freon 11)	µg/L	n/v	150[G] 150[H]	<0.50	-	<0.5	-	<0.50	<0.50	-	-	<0.50	-	<0.50	-	<0.50	-
Trihalomethanes	µg/L	100[e C]	n/v	-	-	-	-	<0.20	-	-	-	-	-	-	-	-	-
Vinyl Chloride	µg/L	1[C]	0.5[G] 0.5[H]	<0.20	-	<0.2	-	<0.20	<0.20	-	-	<0.20	-	<0.20	-	<0.20	-

See notes on last page

Table 7
Summary of Groundwater Analytical Results - Monitoring Wells
Clarington Transformer Station
Hydro One Networks Inc.

Sample Location				MW5-14-S (2) (Contd.)				MW6-14									
Sample Date				18-Oct-17	18-Oct-17	18-Oct-17	18-Oct-17	9-Oct-14	26-Nov-14	26-Nov-14	13-Apr-15	13-Apr-15	7-Oct-15	7-Oct-15	13-Apr-16	13-Apr-16	1-Nov-16	1-Nov-16
Sample ID				WG-160900764-20171018-RD11	WG-160900764-20171018-RD12	WG-160900764-20171018-RD11A	WG-160900764-20171018-RD12A	WG-160900764-20141009-AD02	WG-160900764-20141126 RD05	WG-160900764-20141126 RD05A	WG-160900764-20150413-RD13	WG-160900764-20150413-RD13A	WG-160900764-20151007-RD10	WG-160900764-20151007-RD10A	WG-160900764-20160413-AM09	WG-160900764-20160413-AM09A	WG-160900764-20161101-AM05	WG-160900764-20161101-AM05A
Sampling Company				STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC
Laboratory				MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX
Laboratory Work Order				B7N2183	B7N2183	B7N2183	B7N2183	B4I9252	B4M4069	B4M4069	B565881	B565881	B5K5143	B5K5143	B674114	B674114	B6N7980	B6N7980
Laboratory Sample ID				FJF443	FJF445	FJF444	FJF446	XY3183	YP9577	YP9578	ACK471	ACK472	BCZ958	BCZ959	CEO886	CEO887	DJK308	DJK309
Filtered				Field Filtered Metals	Field Filtered Metals	Lab Filtered SVOC	Lab Filtered SVOC	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC
Sample Type	Units	ODWS	Ontario SCS		Field Duplicate		Field Duplicate											
General Chemistry																		
Acidity	mg/L	n/v	n/v	12	13	-	-	12	-	-	12	-	10	-	12	-	13	-
Alkalinity, Bicarbonate (as CaCO3)	mg/L	n/v	n/v	230	230	-	-	200	200	-	200	-	190	-	200	-	200	-
Alkalinity, Carbonate (as CaCO3)	mg/L	n/v	n/v	2.1	2.1	-	-	1.8	2.5	-	<1	-	1.3	-	1.7	-	2.0	-
Alkalinity, Total (as CaCO3)	mg/L	30-500[E]	n/v	230	240	-	-	200	200	-	200	-	190	-	200	-	200	-
Ammonia (as N)	mg/L	n/v	n/v	<0.050	<0.050	-	-	0.12	0.058	-	<0.05	-	<0.050	-	<0.050	-	<0.050	-
Anion Sum	meq/L	n/v	n/v	7.50	7.52	-	-	4.83	5.05	-	5.55	-	5.47	-	5.60	-	5.63	-
Cation Sum	meq/L	n/v	n/v	7.39	7.43	-	-	4.93	4.93	-	5.23	-	5.56	-	5.32	-	5.63	-
Chloride	mg/L	250[D]	790[G] 790[H]	59	60	-	-	10	16	-	24	-	28	-	28	-	28	-
Cyanide (Free)	µg/L	200[C]	52[G] 52[H]	<1	<1	-	-	<2	-	-	<2	-	<2	-	<2	-	<1	-
Dissolved Organic Carbon (DOC)	mg/L	5[D]	n/v	0.87	0.88	-	-	2.9	2.3	-	1.4	-	1.1	-	1.4	-	1.1	-
Electrical Conductivity, Lab	µmhos/cm	n/v	n/a[GH]	710	710	-	-	420	470	-	510	-	530	-	520	-	540	-
Fluoride	mg/L	1.5_b[C]	n/v	<0.10	<0.10	-	-	0.26	-	-	0.26	-	0.24	-	0.26	-	0.28	-
Hardness (as CaCO3)	mg/L	80-100[E]	n/v	**360[E]**	**360[E]**	-	-	**210[E]**	**210[E]**	-	**230[E]**	-	**250[E]**	-	**240[E]**	-	**260[E]**	-
Ion Balance	%	n/v	n/v	0.710	0.620	-	-	0.990	1.16	-	2.91	-	0.840	-	2.55	-	0.00	-
Langelier Index (at 20 C)	none	n/v	n/v	0.967	0.986	-	-	0.469	0.591	-	-0.0400	-	0.329	-	0.444	-	0.527	-
Langelier Index (at 4 C)	none	n/v	n/v	0.719	0.737	-	-	0.220	0.341	-	-0.289	-	0.0800	-	0.195	-	0.278	-
Nitrate (as N)	mg/L	10.0_d[C]	n/v	8.21	8.19	-	-	<0.10	<0.10	-	<0.1	-	<0.10	-	<0.10	-	<0.10	-
Nitrate + Nitrite (as N)	mg/L	10.0_d[C]	n/v	8.21	8.19	-	-	<0.10	<0.10	-	-	-	<0.10	-	<0.10	-	<0.10	-
Nitrite (as N)	mg/L	1.0_d[C]	n/v	<0.010	<0.010	-	-	<0.010	<0.010	-	<0.01	-	0.016	-	<0.010	-	<0.010	-
Orthophosphate(as P)	mg/L	n/v	n/v	<0.010	<0.010	-	-	<0.010	<0.010	-	<0.01	-	<0.010	-	<0.010	-	<0.010	-
pH	S.U.	6.5-8.5[E]	n/v	7.97	7.98	-	-	7.98	8.13	-	7.47	-	7.84	-	7.97	-	8.04	-
Saturation pH (at 20 C)	none	n/v	n/v	7.01	6.99	-	-	7.51	7.54	-	7.51	-	7.51	-	7.52	-	7.51	-
Saturation pH (at 4 C)	none	n/v	n/v	7.25	7.24	-	-	7.76	7.79	-	7.76	-	7.76	-	7.77	-	7.76	-
Sulfate	mg/L	500_h[D]	n/v	27	26	-	-	24	27	-	39	-	38	-	40	-	40	-
Total Dissolved Solids	mg/L	500[D]	n/v	480	445	-	-	262	-	-	-	-	296	-	316	-	356	-
Total Dissolved Solids (Calculated)	mg/L	500[D]	n/v	420	420	-	-	-	270	-	-	-	290	-	290	-	300	-
Total Organic Carbon	mg/L	n/v	n/v	0.90	0.90	-	-	3.1	-	-	1.5	-	1.4	-	1.7	-	1.6	-
Total Suspended Solids	mg/L	n/v	n/v	<10	<10	-	-	310	120	-	21	-	45	-	<10	-	91	-
Turbidity, Lab	NTU	5_j[D,E]	n/v	1.0	1.1	-	-	**96[D]**	**150[D]**	-	**7.2[D]**	-	**70[D]**	-	**18[D]**	-	**110[D]**	-
BTEX and Petroleum Hydrocarbons																		
Benzene	µg/L	1[C]	0.5[G] 5[H]	<0.20	<0.20	-	-	0.24	<0.20	-	<0.2	-	<0.20	-	<0.20	-	<0.20	-
Toluene	µg/L	24[D]	24[G] 22[H]	<0.20	<0.20	-	-	2.5	<0.20	-	<0.2	-	<0.20	-	<0.20	-	<0.20	-
Ethylbenzene	µg/L	2.4[D]	2.4[G] 2.4[H]	<0.20	<0.20	-	-	0.50	<0.20	-	<0.2	-	<0.20	-	<0.20	-	<0.20	-
Xylene, m & p-	µg/L	300_{s1}[D]	$_{s1}$[GH]	<0.20	<0.20	-	-	2.1	<0.20	-	<0.2	-	<0.20	-	<0.20	-	<0.20	-
Xylene, o-	µg/L	300_{s1}[D]	$_{s1}$[GH]	<0.20	<0.20	-	-	0.67	<0.20	-	<0.2	-	<0.20	-	<0.20	-	<0.20	-
Xylenes, Total	µg/L	300[D]	72_{s1}[G] 300_{s1}[H]	<0.20	<0.20	-	-	2.8	<0.20	-	<0.2	-	<0.20	-	<0.20	-	<0.20	-
PHC F1 (C6-C10 range)	µg/L	n/v	$_{s7}$[GH]	<25	<25	-	-	<25	-	-	<25	-	<25	-	<25	-	<25	-
PHC F1 (C6-C10 range) minus BTEX	µg/L	n/v	420_{s7}[GH]	<25	<25	-	-	<25	-	-	<25	-	<25	-	<25	-	<25	-
PHC F2 (>C10-C16 range)	µg/L	n/v	150_{s15}[GH]	<100	<100	-	-	<100	-	-	<100	-	<100	-	<100	-	<100	-
PHC F3 (>C16-C34 range)	µg/L	n/v	500_{s8}[GH]	<200	<200	-	-	<200	-	-	<200	-	<200	-	<200	-	<200	-
PHC F4 (>C34-C50 range)	µg/L	n/v	500_{s10}[GH]	<200	<200	-	-	<200	-	-	<200	-	<200	-	<200	-	<200	-
Chromatogram to baseline at C50	none	n/v	n/v	YES	YES	-	-	YES	-	-	YES	-	YES	-	YES	-	YES	-

See notes on last page

Table 7
Summary of Groundwater Analytical Results - Monitoring Wells
Clarington Transformer Station
Hydro One Networks Inc.

Sample Location				MW5-14-S (2) (Contd.)				MW6-14											
Sample Date				18-Oct-17	18-Oct-17	18-Oct-17	18-Oct-17	9-Oct-14	26-Nov-14	26-Nov-14	13-Apr-15	13-Apr-15	7-Oct-15	7-Oct-15	13-Apr-16	13-Apr-16	1-Nov-16	1-Nov-16
Sample ID				WG-160900764-20171018-RD11	WG-160900764-20171018-RD12	WG-160900764-20171018-RD11A	WG-160900764-20171018-RD12A	WG-160900764-20141009-AD02	WG-160900764-20141126 RD05	WG-160900764-20141126 RD05A	WG-160900764-20150413-RD13	WG-160900764-20150413-RD13A	WG-160900764-20151007-RD10	WG-160900764-20151007-RD10A	WG-160900764-20160413-AM09	WG-160900764-20160413-AM09A	WG-160900764-20161101-AM05	WG-160900764-20161101-AM05A
Sampling Company				STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC
Laboratory				MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX
Laboratory Work Order				B7N2183	B7N2183	B7N2183	B7N2183	B4I9252	B4M4069	B4M4069	B565881	B565881	B5K5143	B5K5143	B674114	B674114	B6N7980	B6N7980
Laboratory Sample ID				FJF443	FJF445	FJF444	FJF446	XY3183	YP9577	YP9578	ACK471	ACK472	BCZ958	BCZ959	CEO886	CEO887	DJK308	DJK309
Filtered				Field Filtered Metals	Field Filtered Metals	Lab Filtered SVOC	Lab Filtered SVOC	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC
Sample Type	Units	ODWS	Ontario SCS		Field Duplicate		Field Duplicate											
Metals																		
Aluminum	µg/L	100[E]	n/v	<5	<5	-	-	27	20	26	12	-	9.9	-	8	-	8.4	-
Antimony	µg/L	6[B]	6[G] 6[H]	<0.5	<0.5	-	-	<0.50	<0.50	<0.50	<0.5	-	<0.5	-	<0.5	-	<0.5	-
Arsenic	µg/L	25[B]	25[G] 25[H]	<1	<1	-	-	<1.0	<1.0	<1.0	<1	-	<1	-	<1	-	<1	-
Barium	µg/L	1,000[C]	1,000[G] 1,000[H]	34	35	-	-	97	86	86	70	-	80	-	76	-	85	-
Beryllium	µg/L	n/v	4[G] 4[H]	<0.5	<0.5	-	-	<0.50	<0.50	<0.50	<0.5	-	<0.5	-	<0.5	-	<0.5	-
Boron	µg/L	5,000[B]	5,000[G] 5,000[H]	<10	<10	-	-	47	49	44	23	-	21	-	29	-	27	-
Cadmium	µg/L	5[C]	2.1[G] 2.1[H]	<0.1	<0.1	-	-	<0.10	<0.10	<0.10	<0.1	-	<0.1	-	<0.1	-	<0.1	-
Calcium	µg/L	n/v	n/v	120,000	120,000	-	-	39,000	36,000	41,000	40,000	-	41,000	-	40,000	-	42,000	-
Chromium	µg/L	50[C]	50[G] 50[H]	<5	<5	-	-	<5.0	<5.0	<5.0	<5	-	<5.0	-	<5	-	<5	-
Chromium (Hexavalent)	µg/L	n/v	25[G] 25[H]	0.81	0.87	-	-	<0.50	-	-	<0.5	-	<0.50	-	<0.50	-	<0.50	-
Cobalt	µg/L	n/v	3.8[G] 3.8[H]	<0.5	<0.5	-	-	<0.50	0.73	0.81	<0.5	-	0.68	-	<0.5	-	<0.5	-
Copper	µg/L	1,000[D]	69[G] 69[H]	<1	<1	-	-	1.8	1.6	<1.0	<1	-	<1	-	<1	-	<1	-
Iron	µg/L	300[D]	n/v	<100	<100	-	-	<100	<100	<100	<100	-	<100	-	<100	-	<100	-
Lead	µg/L	10_c[C]	10[G] 10[H]	<0.5	<0.5	-	-	<0.50	<0.50	<0.50	<0.5	-	<0.5	-	<0.5	-	<0.5	-
Magnesium	µg/L	n/v	n/v	13,000	13,000	-	-	26,000	29,000	29,000	32,000	-	36,000	-	34,000	-	36,000	-
Manganese	µg/L	50[D]	n/v	<2	<2	-	-	38	**79[D]**	**92[D]**	**120[D]**	-	**100[D]**	-	35	-	44	-
Mercury	µg/L	1[C]	0.1[G] 0.29[H]	<0.1	<0.1	-	-	<0.1	-	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-
Molybdenum	µg/L	n/v	70[G] 70[H]	<0.5	<0.5	-	-	5.9	5.2	6.5	4.7	-	4.3	-	4.2	-	4.5	-
Nickel	µg/L	n/v	100[G] 100[H]	<1	<1	-	-	1.6	<1.0	<1.0	<1	-	<1	-	<1	-	<1	-
Phosphorus	µg/L	n/v	n/v	<100	<100	-	-	<100	<100	<100	<100	-	<100	-	<100	-	<100	-
Potassium	µg/L	n/v	n/v	1,000	1,000	-	-	6,200	4,700	5,000	4,000	-	3,800	-	3,300	-	3,600	-
Selenium	µg/L	10[C]	10[G] 10[H]	<2	<2	-	-	<2.0	<2.0	<2.0	<2	-	<2	-	<2	-	<2	-
Silicon	µg/L	n/v	n/v	6,000	5,900	-	-	7,900	9,200	8,700	8,500	-	8,900	-	8,300	-	8,600	-
Silver	µg/L	n/v	1.2[G] 1.2[H]	<0.1	<0.1	-	-	<0.10	<0.10	<0.10	<0.1	-	<0.1	-	<0.1	-	<0.1	-
Sodium	µg/L	$200,000_g$[D] $20,000_g$[F]	490,000[G] 490,000[H]	4,300	4,300	-	-	15,000	13,000	12,000	12,000	-	10,000	-	9,500	-	10,000	-
Strontium	µg/L	n/v	n/v	230	230	-	-	450	520	490	500	-	570	-	510	-	590	-
Thallium	µg/L	n/v	2[G] 2[H]	<0.05	<0.05	-	-	<0.050	<0.050	<0.050	<0.05	-	<0.05	-	<0.05	-	<0.05	-
Titanium	µg/L	n/v	n/v	<5	<5	-	-	<5.0	<5.0	<5.0	<5	-	<5.0	-	<5	-	<5	-
Uranium	µg/L	20[C]	20[G] 20[H]	0.63	0.65	-	-	2.8	2.4	3.3	2.4	-	2.8	-	2.1	-	2.1	-
Vanadium	µg/L	n/v	6.2[G] 6.2[H]	<0.5	<0.5	-	-	0.57	<0.50	<0.50	<0.5	-	0.6	-	0.97	-	0.63	-
Zinc	µg/L	5,000[D]	890[G] 890[H]	<5	<5	-	-	<5.0	<5.0	<5.0	<5	-	<5.0	-	<5	-	<5	-
Zirconium	µg/L	n/v	n/v	<1	<1	-	-	<1.0	<1.0	<1.0	<1	-	<1	-	<1	-	<1	-
Polychlorinated Biphenyls																		
Aroclor 1242	µg/L	n/v	$_{s14}$[GH]	<0.05	<0.05	-	-	<0.05	-	-	<0.05	-	<0.05	-	<0.05	-	<0.05	-
Aroclor 1248	µg/L	n/v	$_{s14}$[GH]	<0.05	<0.05	-	-	<0.05	-	-	<0.05	-	<0.05	-	<0.05	-	<0.05	-
Aroclor 1254	µg/L	n/v	$_{s14}$[GH]	<0.05	<0.05	-	-	<0.05	-	-	<0.05	-	<0.05	-	<0.05	-	<0.05	-
Aroclor 1260	µg/L	n/v	$_{s14}$[GH]	<0.05	<0.05	-	-	<0.05	-	-	<0.05	-	<0.05	-	<0.05	-	<0.05	-
Polychlorinated Biphenyls (PCBs)	µg/L	3[B]	0.2_{s14}[GH]	<0.05	<0.05	-	-	<0.05	-	-	<0.05	-	<0.05	-	<0.05	-	<0.05	-

See notes on last page

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Clarington Transformer Station
Hydro One Networks Inc.

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Sampling Company				STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC
Laboratory				MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX
Laboratory Work Order				B7N2183	B7N2183	B7N2183	B7N2183	B4I9252	B4M4069	B4M4069	B565881	B565881	B5K5143	B5K5143	B674114	B674114	B6N7980	B6N7980
Laboratory Sample ID				FJF443	FJF445	FJF444	FJF446	XY3183	YP9577	YP9578	ACK471	ACK472	BCZ958	BCZ959	CEO886	CEO887	DJK308	DJK309
Filtered				Field Filtered Metals	Field Filtered Metals	Lab Filtered SVOC	Lab Filtered SVOC	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC
Sample Type	Units	ODWS	Ontario SCS		Field Duplicate		Field Duplicate											
Semi-Volatile Organic Compounds																		
Phthalates																		
Bis(2-Ethylhexyl)phthalate (DEHP)	µg/L	n/v	10[G] 10[H]	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Diethyl Phthalate	µg/L	n/v	30[G] 30[H]	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.1
Dimethyl Phthalate	µg/L	n/v	30[G] 30[H]	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Polycyclic Aromatic Hydrocarbons																		
Acenaphthene	µg/L	n/v	4.1[G] 4.1[H]	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Acenaphthylene	µg/L	n/v	1[G] 1[H]	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Anthracene	µg/L	n/v	1[G] 1[H]	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(a)anthracene	µg/L	n/v	1[G] 1[H]	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(a)pyrene	µg/L	0.01[C]	0.01[G] 0.01[H]	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Benzo(b/j)fluoranthene	µg/L	n/v	0.1_{s2}[GH]	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(g,h,i)perylene	µg/L	n/v	0.2[G] 0.2[H]	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(k)fluoranthene	µg/L	n/v	0.1[G] 0.1[H]	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Chrysene	µg/L	n/v	0.1[G] 0.1[H]	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Dibenzo(a,h)anthracene	µg/L	n/v	0.2[G] 0.2[H]	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	µg/L	n/v	0.41[G] 0.41[H]	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Fluorene	µg/L	n/v	120[G] 120[H]	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Indeno(1,2,3-cd)pyrene	µg/L	n/v	0.2[G] 0.2[H]	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Methylnaphthalene (Total)	µg/L	n/v	3.2_{s3}[GH]	<0.28	<0.28	<0.28	<0.28	1.2	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28
Methylnaphthalene, 1-	µg/L	n/v	$_{s3}$[GH]	<0.2	<0.2	<0.2	<0.2	0.3	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Methylnaphthalene, 2-	µg/L	n/v	$_{s3}$[GH]	<0.2	<0.2	<0.2	<0.2	0.8	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Naphthalene	µg/L	n/v	7[G] 11[H]	<0.2	<0.2	<0.2	<0.2	0.5	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Phenanthrene	µg/L	n/v	1[G] 1[H]	<0.1	<0.1	<0.1	<0.1	0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Pyrene	µg/L	n/v	4.1[G] 4.1[H]	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Remaining Semi-Volatile Organic Compounds																		
Biphenyl, 1,1'- (Biphenyl)	µg/L	n/v	0.5[G] 0.5[H]	<0.1	<0.1	<0.1	<0.1	0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Bis(2-Chloroethyl)ether	µg/L	n/v	5[G] 5[H]	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Bis(2-Chloroisopropyl)ether	µg/L	n/v	120[G] 120[H]	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Chloroaniline, 4-	µg/L	n/v	10[G] 10[H]	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chlorophenol, 2- (ortho-Chlorophenol)	µg/L	n/v	8.9[G] 8.9[H]	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dichlorobenzidine, 3,3'-	µg/L	n/v	0.5[G] 0.5[H]	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Dichlorophenol, 2,4-	µg/L	900[C] 0.3_t[D]	20[G] 20[H]	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dimethylphenol, 2,4-	µg/L	n/v	59[G] 59[H]	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Dinitrophenol, 2,4-	µg/L	n/v	10[G] 10[H]	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Dinitrotoluene, 2,4-	µg/L	n/v	5_{t13}[GH]	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Dinitrotoluene, 2,6-	µg/L	n/v	5_{t13}[GH]	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Pentachlorophenol	µg/L	60[C] 30_t[D]	30[G] 30[H]	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Phenol	µg/L	n/v	890[G] 890[H]	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Trichlorobenzene, 1,2,4-	µg/L	n/v	3[G] 70[H]	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Trichlorophenol, 2,4,5-	µg/L	n/v	8.9[G] 8.9[H]	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Trichlorophenol, 2,4,6-	µg/L	5[C] 2_t[D]	2[G] 2[H]	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2

See notes on last page

Table 7
Summary of Groundwater Analytical Results - Monitoring Wells
Clarington Transformer Station
Hydro One Networks Inc.

Sample Location				MW5-14-S (2) (Contd.)				MW6-14									
Sample Date				18-Oct-17	18-Oct-17	18-Oct-17	18-Oct-17	9-Oct-14	26-Nov-14	26-Nov-14	13-Apr-15	13-Apr-15	7-Oct-15	7-Oct-15	13-Apr-16	13-Apr-16	1-Nov-16	1-Nov-16
Sample ID				WG-160900764-20171018-RD11	WG-160900764-20171018-RD12	WG-160900764-20171018-RD11A	WG-160900764-20171018-RD12A	WG-160900764-20141009-AD02	WG-160900764-20141126 RD05	WG-160900764-20141126 RD05A	WG-160900764-20150413-RD13	WG-160900764-20150413-RD13A	WG-160900764-20151007-RD10	WG-160900764-20151007-RD10A	WG-160900764-20160413-AM09	WG-160900764-20160413-AM09A	WG-160900764-20161101-AM05	WG-160900764-20161101-AM05A
Sampling Company				STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC
Laboratory				MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX
Laboratory Work Order				B7N2183	B7N2183	B7N2183	B7N2183	B4I9252	B4M4069	B4M4069	B565881	B565881	B5K5143	B5K5143	B674114	B674114	B6N7980	B6N7980
Laboratory Sample ID				FJF443	FJF445	FJF444	FJF446	XY3183	YP9577	YP9578	ACK471	ACK472	BCZ958	BCZ959	CEO886	CEO887	DJK308	DJK309
Filtered				Field Filtered Metals	Field Filtered Metals	Lab Filtered SVOC	Lab Filtered SVOC	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC
Sample Type	Units	ODWS	Ontario SCS		Field Duplicate		Field Duplicate											
Volatile Organic Compounds																		
Acetone	µg/L	n/v	2,700[G] 2,700[H]	<10	<10	-	-	16	<10	-	<10	-	<10	-	<10	-	<10	-
Bromodichloromethane	µg/L	n/v	16[G] 16[H]	<0.50	<0.50	-	-	<0.50	<0.50	-	<0.5	-	<0.50	-	<0.50	-	<0.50	-
Bromoform (Tribromomethane)	µg/L	n/v	5[G] 25[H]	<1.0	<1.0	-	-	<1.0	<1.0	-	<1	-	<1.0	-	<1.0	-	<1.0	-
Bromomethane (Methyl bromide)	µg/L	n/v	0.89[G] 0.89[H]	<0.50	<0.50	-	-	<0.50	<0.50	-	<0.5	-	<0.50	-	<0.50	-	<0.50	-
Carbon Tetrachloride (Tetrachloromethane)	µg/L	2[C]	0.2[G] 0.79[H]	<0.20	<0.20	-	-	<0.20	<0.20	-	<0.2	-	<0.20	-	<0.20	-	<0.20	-
Chlorobenzene (Monochlorobenzene)	µg/L	80[C] 30[D]	30[G] 30[H]	<0.20	<0.20	-	-	<0.20	<0.20	-	<0.2	-	<0.20	-	<0.20	-	<0.20	-
Chloroform (Trichloromethane)	µg/L	n/v	2[G] 2.4[H]	<0.20	<0.20	-	-	<0.20	<0.20	-	<0.2	-	<0.20	-	<0.20	-	<0.20	-
Dibromochloromethane	µg/L	n/v	25[G] 25[H]	<0.50	<0.50	-	-	<0.50	<0.50	-	<0.5	-	<0.50	-	<0.50	-	<0.50	-
Dichlorobenzene, 1,2-	µg/L	200[C] 3[D]	3[G] 3[H]	<0.50	<0.50	-	-	<0.50	<0.50	-	<0.5	-	<0.50	-	<0.50	-	<0.50	-
Dichlorobenzene, 1,3-	µg/L	n/v	59[G] 59[H]	<0.50	<0.50	-	-	<0.50	<0.50	-	<0.5	-	<0.50	-	<0.50	-	<0.50	-
Dichlorobenzene, 1,4-	µg/L	5[C] 1[D]	0.5[G] 1[H]	<0.50	<0.50	-	-	<0.50	<0.50	-	<0.5	-	<0.50	-	<0.50	-	<0.50	-
Dichlorodifluoromethane (Freon 12)	µg/L	n/v	590[G] 590[H]	<1.0	<1.0	-	-	<1.0	<1.0	-	<1	-	<1.0	-	<1.0	-	<1.0	-
Dichloroethane, 1,1-	µg/L	n/v	5[G] 5[H]	<0.20	<0.20	-	-	<0.20	<0.20	-	<0.2	-	<0.20	-	<0.20	-	<0.20	-
Dichloroethane, 1,2-	µg/L	5[B]	0.5[G] 1.6[H]	<0.50	<0.50	-	-	<0.50	<0.50	-	<0.5	-	<0.50	-	<0.50	-	<0.50	-
Dichloroethene, 1,1-	µg/L	14[C]	0.5[G] 1.6[H]	<0.20	<0.20	-	-	<0.20	<0.20	-	<0.2	-	<0.20	-	<0.20	-	<0.20	-
Dichloroethene, cis-1,2-	µg/L	n/v	1.6[G] 1.6[H]	<0.50	<0.50	-	-	<0.50	<0.50	-	<0.5	-	<0.50	-	<0.50	-	<0.50	-
Dichloroethene, trans-1,2-	µg/L	n/v	1.6[G] 1.6[H]	<0.50	<0.50	-	-	<0.50	<0.50	-	<0.5	-	<0.50	-	<0.50	-	<0.50	-
Dichloropropane, 1,2-	µg/L	n/v	0.58[G] 5[H]	<0.20	<0.20	-	-	<0.20	<0.20	-	<0.2	-	<0.20	-	<0.20	-	<0.20	-
Dichloropropene, 1,3- (sum of isomers cis + trans)	µg/L	n/v	0.5[511][GH]	<0.50	<0.50	-	-	<0.50	<0.50	-	<0.5	-	<0.50	-	<0.50	-	<0.50	-
Dichloropropene, cis-1,3-	µg/L	n/v	[511][GH]	<0.30	<0.30	-	-	<0.30	<0.30	-	<0.3	-	<0.30	-	<0.30	-	<0.30	-
Dichloropropene, trans-1,3-	µg/L	n/v	[511][GH]	<0.40	<0.40	-	-	<0.40	<0.40	-	<0.4	-	<0.40	-	<0.40	-	<0.40	-
Ethylene Dibromide (Dibromoethane, 1,2-)	µg/L	n/v	0.2[G] 0.2[H]	<0.20	<0.20	-	-	<0.20	<0.20	-	<0.2	-	<0.20	-	<0.20	-	<0.20	-
Hexane (n-Hexane)	µg/L	n/v	5[G] 51[H]	<1.0	<1.0	-	-	<1.0	<1.0	-	<1	-	<1.0	-	<1.0	-	<1.0	-
Methyl Ethyl Ketone (MEK) (2-Butanone)	µg/L	n/v	1,800[G] 1,800[H]	<10	<10	-	-	<10	<10	-	<10	-	<10	-	<10	-	<10	-
Methyl Isobutyl Ketone (MIBK)	µg/L	n/v	640[G] 640[H]	<5.0	<5.0	-	-	<5.0	<5.0	-	<5	-	<5.0	-	<5.0	-	<5.0	-
Methyl tert-butyl ether (MTBE)	µg/L	n/v	15[G] 15[H]	<0.50	<0.50	-	-	<0.50	<0.50	-	<0.5	-	<0.50	-	<0.50	-	<0.50	-
Methylene Chloride (Dichloromethane)	µg/L	50[C]	26[G] 50[H]	<2.0	<2.0	-	-	<2.0	<2.0	-	<2	-	<2.0	-	<2.0	-	<2.0	-
Styrene	µg/L	n/v	5.4[G] 5.4[H]	<0.50	<0.50	-	-	<0.50	<0.50	-	<0.5	-	<0.50	-	<0.50	-	<0.50	-
Tetrachloroethane, 1,1,1,2-	µg/L	n/v	1.1[G] 1.1[H]	<0.50	<0.50	-	-	<0.50	<0.50	-	<0.5	-	<0.50	-	<0.50	-	<0.50	-
Tetrachloroethane, 1,1,2,2-	µg/L	n/v	0.5[G] 1[H]	<0.50	<0.50	-	-	<0.50	<0.50	-	<0.5	-	<0.50	-	<0.50	-	<0.50	-
Tetrachloroethene (PCE)	µg/L	30[C]	0.5[G] 1.6[H]	<0.20	<0.20	-	-	<0.20	<0.20	-	<0.2	-	<0.20	-	<0.20	-	<0.20	-
Trichloroethane, 1,1,1-	µg/L	n/v	23[G] 200[H]	<0.20	<0.20	-	-	<0.20	<0.20	-	<0.2	-	<0.20	-	<0.20	-	<0.20	-
Trichloroethane, 1,1,2-	µg/L	n/v	0.5[G] 4.7[H]	<0.50	<0.50	-	-	<0.50	<0.50	-	<0.5	-	<0.50	-	<0.50	-	<0.50	-
Trichloroethene (TCE)	µg/L	5[C]	0.5[G] 1.6[H]	<0.20	<0.20	-	-	<0.20	<0.20	-	<0.2	-	<0.20	-	<0.20	-	<0.20	-
Trichlorofluoromethane (Freon 11)	µg/L	n/v	150[G] 150[H]	<0.50	<0.50	-	-	<0.50	<0.50	-	<0.5	-	<0.50	-	<0.50	-	<0.50	-
Trihalomethanes	µg/L	100[e][C]	n/v	<1.0	<1.0	-	-	-	-	-	-	-	<0.20	-	-	-	-	-
Vinyl Chloride	µg/L	1[C]	0.5[G] 0.5[H]	<0.20	<0.20	-	-	<0.20	<0.20	-	<0.2	-	<0.20	-	<0.20	-	<0.20	-

See notes on last page

Table 7
Summary of Groundwater Analytical Results - Monitoring Wells
Clarington Transformer Station
Hydro One Networks Inc.

Sample Location				MW6-14 (Contd.)				MW7-14									
Sample Date				26-Apr-17	26-Apr-17	19-Oct-17	19-Oct-17	9-Oct-14	27-Nov-14	27-Nov-14	13-Apr-15	13-Apr-15	7-Oct-15	7-Oct-15	13-Apr-16	13-Apr-16	2-Nov-16	2-Nov-16
Sample ID				WG-160900764-20170426-KR-14	WG-160900764-20170426-KR-14A	WG-160900764-20171019-RD15	WG-160900764-20171019-RD15A	WG-160900764-20141009-AD03	WG-160900764-20141127-RD10	WG-160900764-20141127-RD10A	WG-160900764-20150413-RD12	WG-160900764-20150413-RD12A	WG-160900764-20151007-RD11	WG-160900764-20151007-RD11A	WG-160900764-20160413-AM10	WG-160900764-20160413-AM10A	WG-160900764-20161102-AM14	WG-160900764-20161102-AM14A
Sampling Company				STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC
Laboratory				MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX
Laboratory Work Order				B785281	B785281	B7N2183	B7N2183	B4I9252	B4M5208	B4M5208	B565881	B565881	B5K5143	B5K5143	B674114	B674114	B6N8983	B6N8983
Laboratory Sample ID				EHF906	EHF907	FJF453	FJF454	XY3184	YQ4968	YQ4969	ACK469	ACK470	BCZ960	BCZ962	CEO888	CEO889	DJO982	DJO983
Filtered				Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC
Sample Type	Units	ODWS	Ontario SCS															
General Chemistry																		
Acidity	mg/L	n/v	n/v	10	-	<5.0	-	13	-	-	10	-	<10	-	<10	-	10	-
Alkalinity, Bicarbonate (as CaCO3)	mg/L	n/v	n/v	190	-	190	-	210	180	-	180	-	180	-	180	-	190	-
Alkalinity, Carbonate (as CaCO3)	mg/L	n/v	n/v	2.0	-	2.8	-	1.7	1.8	-	<1	-	1.3	-	1.7	-	1.8	-
Alkalinity, Total (as CaCO3)	mg/L	30-500[E]	n/v	190	-	190	-	210	190	-	180	-	180	-	190	-	190	-
Ammonia (as N)	mg/L	n/v	n/v	<0.050	-	<0.050	-	0.10	0.060	-	<0.05	-	0.085	-	<0.050	-	<0.050	-
Anion Sum	meq/L	n/v	n/v	5.30	-	4.96	-	5.88	5.37	-	5.35	-	5.44	-	5.47	-	5.33	-
Cation Sum	meq/L	n/v	n/v	5.12	-	4.78	-	5.98	5.39	-	5.44	-	6.09	-	5.26	-	5.28	-
Chloride	mg/L	250[D]	790[G] 790[H]	23	-	19	-	27	29	-	29	-	29	-	29	-	26	-
Cyanide (Free)	µg/L	200[C]	52[G] 52[H]	<1	-	<1	-	<2	-	-	<2	-	<2	-	<2	-	<1	-
Dissolved Organic Carbon (DOC)	mg/L	5[D]	n/v	0.94	-	0.89	-	2.1	1.4	-	0.86	-	0.80	-	0.92	-	0.91	-
Electrical Conductivity, Lab	µmhos/cm	n/v	n/a[GH]	510	-	450	-	530	520	-	520	-	530	-	520	-	510	-
Fluoride	mg/L	1.5_b[C]	n/v	0.27	-	0.30	-	0.17	-	-	0.20	-	0.21	-	0.21	-	0.20	-
Hardness (as CaCO3)	mg/L	80-100[E]	n/v	**230[E]**	-	**210[E]**	-	**270[E]**	**250[E]**	-	**250[E]**	-	**280[E]**	-	**240[E]**	-	**240[E]**	-
Ion Balance	%	n/v	n/v	1.76	-	1.85	-	0.830	0.190	-	0.830	-	5.66	-	1.97	-	0.450	-
Langelier Index (at 20 C)	none	n/v	n/v	0.458	-	0.582	-	0.600	0.525	-	-0.0500	-	0.404	-	0.487	-	0.502	-
Langelier Index (at 4 C)	none	n/v	n/v	0.209	-	0.332	-	0.351	0.276	-	-0.299	-	0.155	-	0.238	-	0.253	-
Nitrate (as N)	mg/L	10.0_d[C]	n/v	<0.10	-	<0.10	-	0.11	<0.10	-	<0.1	-	0.28	-	0.20	-	<0.10	-
Nitrate + Nitrite (as N)	mg/L	10.0_d[C]	n/v	<0.10	-	<0.10	-	0.11	<0.10	-	-	-	0.29	-	0.20	-	<0.10	-
Nitrite (as N)	mg/L	1.0_d[C]	n/v	<0.010	-	<0.010	-	<0.010	<0.010	-	<0.01	-	0.018	-	<0.010	-	<0.010	-
Orthophosphate(as P)	mg/L	n/v	n/v	<0.010	-	<0.010	-	<0.010	<0.010	-	<0.01	-	<0.010	-	0.010	-	0.010	-
pH	S.U.	6.5-8.5[E]	n/v	8.04	-	8.20	-	7.94	8.02	-	7.47	-	7.87	-	8.00	-	8.02	-
Saturation pH (at 20 C)	none	n/v	n/v	7.58	-	7.62	-	7.34	7.50	-	7.52	-	7.47	-	7.51	-	7.52	-
Saturation pH (at 4 C)	none	n/v	n/v	7.83	-	7.87	-	7.59	7.75	-	7.77	-	7.72	-	7.76	-	7.76	-
Sulfate	mg/L	500_h[D]	n/v	38	-	31	-	40	40	-	44	-	46	-	44	-	40	-
Total Dissolved Solids	mg/L	500[D]	n/v	290	-	205	-	326	-	-	-	-	298	-	318	-	296	-
Total Dissolved Solids (Calculated)	mg/L	500[D]	n/v	280	-	260	-	-	290	-	-	-	310	-	290	-	290	-
Total Organic Carbon	mg/L	n/v	n/v	1.1	-	0.91	-	2.2	-	-	0.97	-	0.84	-	0.99	-	0.87	-
Total Suspended Solids	mg/L	n/v	n/v	10	-	26	-	560	59	-	19	-	<10	-	<10	-	<10	-
Turbidity, Lab	NTU	5_j[D E]	n/v	3.2	-	2.2	-	**360[D]**	**57[D]**	-	**6.8[D]**	-	1.2	-	2.2	-	4.5	-
BTEX and Petroleum Hydrocarbons																		
Benzene	µg/L	1[C]	0.5[G] 5[H]	<0.20	-	<0.20	-	<0.20	<0.20	-	<0.2	-	<0.20	-	<0.20	-	<0.20	-
Toluene	µg/L	24[D]	24[G] 22[H]	<0.20	-	<0.20	-	1.0	<0.20	-	<0.2	-	<0.20	-	<0.20	-	<0.20	-
Ethylbenzene	µg/L	2.4[D]	2.4[G] 2.4[H]	<0.20	-	<0.20	-	0.21	<0.20	-	<0.2	-	<0.20	-	<0.20	-	<0.20	-
Xylene, m & p-	µg/L	300_{s1}[D]	$_{s1}$[GH]	<0.20	-	<0.20	-	1.4	<0.20	-	<0.2	-	<0.20	-	<0.20	-	<0.20	-
Xylene, o-	µg/L	300_{s1}[D]	$_{s1}$[GH]	<0.20	-	<0.20	-	0.44	<0.20	-	<0.2	-	<0.20	-	<0.20	-	<0.20	-
Xylenes, Total	µg/L	300[D]	72_{s1}[G] 300_{s1}[H]	<0.20	-	<0.20	-	1.8	<0.20	-	<0.2	-	<0.20	-	<0.20	-	<0.20	-
PHC F1 (C6-C10 range)	µg/L	n/v	$_{s7}$[GH]	<25	-	<25	-	<25	-	-	<25	-	<25	-	<25	-	<25	-
PHC F1 (C6-C10 range) minus BTEX	µg/L	n/v	420_{s7}[GH]	<25	-	<25	-	<25	-	-	<25	-	<25	-	<25	-	<25	-
PHC F2 (>C10-C16 range)	µg/L	n/v	150_{s15}[GH]	<100	-	<100	-	<100	-	-	<100	-	<100	-	<100	-	<100	-
PHC F3 (>C16-C34 range)	µg/L	n/v	500_{s8}[GH]	<200	-	<200	-	<200	-	-	<200	-	<200	-	<200	-	<200	-
PHC F4 (>C34-C50 range)	µg/L	n/v	500_{s10}[GH]	<200	-	<200	-	<200	-	-	<200	-	<200	-	<200	-	<200	-
Chromatogram to baseline at C50	none	n/v	n/v	YES	-	YES	-	YES	-	-	YES	-	YES	-	YES	-	YES	-

See notes on last page

Table 7
Summary of Groundwater Analytical Results - Monitoring Wells
Clarington Transformer Station
Hydro One Networks Inc.

Sample Location				MW6-14 (Contd.)				MW7-14											
Sample Date				26-Apr-17	26-Apr-17	19-Oct-17	19-Oct-17	9-Oct-14	27-Nov-14	27-Nov-14	13-Apr-15	13-Apr-15	7-Oct-15	7-Oct-15	13-Apr-16	13-Apr-16	2-Nov-16	2-Nov-16
Sample ID				WG-160900764-20170426-KR-14	WG-160900764-20170426-KR-14A	WG-160900764-20171019-RD15	WG-160900764-20171019-RD15A	WG-160900764-20141009-AD03	WG-160900764-20141127-RD10	WG-160900764-20141127-RD10A	WG-160900764-20150413-RD12	WG-160900764-20150413-RD12A	WG-160900764-20151007-RD11	WG-160900764-20151007-RD11A	WG-160900764-20160413-AM10	WG-160900764-20160413-AM10A	WG-160900764-20161102-AM14	WG-160900764-20161102-AM14A
Sampling Company				STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC
Laboratory				MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX
Laboratory Work Order				B785281	B785281	B7N2183	B7N2183	B4I9252	B4M5208	B4M5208	B565881	B565881	B5K5143	B5K5143	B674114	B674114	B6N8983	B6N8983
Laboratory Sample ID				EHF906	EHF907	FJF453	FJF454	XY3184	YQ4968	YQ4969	ACK469	ACK470	BCZ960	BCZ962	CEO888	CEO889	DJO982	DJO983
Filtered				Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC
Sample Type	Units	ODWS	Ontario SCS															
Metals																		
Aluminum	µg/L	100[E]	n/v	11	-	13	-	16	16	10	11	-	13	-	11	-	11	-
Antimony	µg/L	6[B]	6[G] 6[H]	<0.50	-	<0.5	-	<0.50	<0.50	<0.50	<0.5	-	<0.5	-	<0.5	-	<0.5	-
Arsenic	µg/L	25[B]	25[G] 25[H]	<1.0	-	<1	-	<1.0	<1.0	<1.0	<1	-	<1	-	<1	-	<1	-
Barium	µg/L	1,000[C]	1,000[G] 1,000[H]	72	-	71	-	100	92	100	78	-	100	-	87	-	110	-
Beryllium	µg/L	n/v	4[G] 4[H]	<0.50	-	<0.5	-	<0.50	<0.50	<0.50	<0.5	-	<0.5	-	<0.5	-	<0.5	-
Boron	µg/L	5,000[B]	5,000[G] 5,000[H]	30	-	34	-	21	32	21	<10	-	11	-	17	-	23	-
Cadmium	µg/L	5[C]	2.1[G] 2.1[H]	<0.10	-	<0.1	-	<0.10	<0.10	<0.10	<0.1	-	<0.1	-	<0.1	-	<0.1	-
Calcium	µg/L	n/v	n/v	36,000	-	31,000	-	57,000	45,000	48,000	44,000	-	49,000	-	44,000	-	42,000	-
Chromium	µg/L	50[C]	50[G] 50[H]	<5.0	-	<5	-	<5.0	<5.0	<5.0	<5	-	<5.0	-	<5	-	<5	-
Chromium (Hexavalent)	µg/L	n/v	25[G] 25[H]	<0.50	-	<0.50	-	<0.50	-	-	<0.5	-	<0.50	-	<0.50	-	<0.50	-
Cobalt	µg/L	n/v	3.8[G] 3.8[H]	<0.50	-	<0.5	-	<0.50	1.0	1.1	<0.5	-	0.53	-	<0.5	-	<0.5	-
Copper	µg/L	1,000[D]	69[G] 69[H]	<1.0	-	<1	-	1.6	1.5	<1.0	<1	-	<1	-	<1	-	<1	-
Iron	µg/L	300[D]	n/v	<100	-	<100	-	<100	<100	<100	<100	-	<100	-	<100	-	<100	-
Lead	µg/L	10[C]	10[G] 10[H]	<0.50	-	<0.5	-	<0.50	<0.50	<0.50	<0.5	-	<0.5	-	<0.5	-	<0.5	-
Magnesium	µg/L	n/v	n/v	34,000	-	32,000	-	31,000	33,000	36,000	34,000	-	38,000	-	32,000	-	32,000	-
Manganese	µg/L	50[D]	n/v	13	-	23	-	31	**79[D]**	**86[D]**	28	-	42	-	16	-	24	-
Mercury	µg/L	1[C]	0.1[G] 0.29[H]	<0.1	-	<0.1	-	<0.1	-	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-
Molybdenum	µg/L	n/v	70[G] 70[H]	3.7	-	2.8	-	4.1	2.8	2.8	2.3	-	2.6	-	2.3	-	2.3	-
Nickel	µg/L	n/v	100[G] 100[H]	<1.0	-	<1	-	<1.0	<1.0	<1.0	<1	-	<1	-	<1	-	<1	-
Phosphorus	µg/L	n/v	n/v	<100	-	100	-	<100	<100	<100	<100	-	<100	-	<100	-	<100	-
Potassium	µg/L	n/v	n/v	3,300	-	3,100	-	3,700	2,800	3,300	2,700	-	2,900	-	2,700	-	3,000	-
Selenium	µg/L	10[C]	10[G] 10[H]	<2.0	-	<2	-	<2.0	<2.0	<2.0	<2	-	<2	-	<2	-	<2	-
Silicon	µg/L	n/v	n/v	9,000	-	9,600	-	10,000	10,000	11,000	9,700	-	11,000	-	10,000	-	10,000	-
Silver	µg/L	n/v	1.2[G] 1.2[H]	<0.10	-	<0.1	-	<0.10	<0.10	<0.10	<0.1	-	<0.1	-	<0.1	-	<0.1	-
Sodium	µg/L	$200{,}000_g$[D] $20{,}000_g$[F]	490,000[G] 490,000[H]	11,000	-	12,000	-	11,000	8,700	8,900	8,600	-	10,000	-	8,500	-	10,000	-
Strontium	µg/L	n/v	n/v	560	-	580	-	420	420	480	410	-	480	-	400	-	440	-
Thallium	µg/L	n/v	2[G] 2[H]	<0.050	-	<0.05	-	<0.050	<0.050	<0.050	<0.05	-	<0.05	-	<0.05	-	<0.05	-
Titanium	µg/L	n/v	n/v	<5.0	-	<5	-	<5.0	<5.0	<5.0	<5	-	<5.0	-	<5	-	<5	-
Uranium	µg/L	20[C]	20[G] 20[H]	1.4	-	0.98	-	3.5	1.5	1.6	1.1	-	1.1	-	0.97	-	0.93	-
Vanadium	µg/L	n/v	6.2[G] 6.2[H]	<0.50	-	<0.5	-	0.53	<0.50	<0.50	<0.5	-	<0.5	-	0.76	-	<0.5	-
Zinc	µg/L	5,000[D]	890[G] 890[H]	<5.0	-	<5	-	<5.0	5.3	<5.0	<5	-	<5.0	-	<5	-	<5	-
Zirconium	µg/L	n/v	n/v	<1.0	-	<1	-	<1.0	<1.0	<1.0	<1	-	<1	-	<1	-	<1	-
Polychlorinated Biphenyls																		
Aroclor 1242	µg/L	n/v	$_{s14}$[GH]	<0.05	-	<0.05	-	<0.05	-	-	<0.05	-	<0.05	-	<0.05	-	<0.05	-
Aroclor 1248	µg/L	n/v	$_{s14}$[GH]	<0.05	-	<0.05	-	<0.05	-	-	<0.05	-	<0.05	-	<0.05	-	<0.05	-
Aroclor 1254	µg/L	n/v	$_{s14}$[GH]	<0.05	-	<0.05	-	<0.05	-	-	<0.05	-	<0.05	-	<0.05	-	<0.05	-
Aroclor 1260	µg/L	n/v	$_{s14}$[GH]	<0.05	-	<0.05	-	<0.05	-	-	<0.05	-	<0.05	-	<0.05	-	<0.05	-
Polychlorinated Biphenyls (PCBs)	µg/L	3[B]	0.2_{s14}[GH]	<0.05	-	<0.05	-	<0.05	-	-	<0.05	-	<0.05	-	<0.05	-	<0.05	-

See notes on last page

Table 7
Summary of Groundwater Analytical Results - Monitoring Wells
Clarington Transformer Station
Hydro One Networks Inc.

Sample Location				MW6-14 (Contd.)									MW7-14					
Sample Date				26-Apr-17	26-Apr-17	19-Oct-17	19-Oct-17	9-Oct-14	27-Nov-14	27-Nov-14	13-Apr-15	13-Apr-15	7-Oct-15	7-Oct-15	13-Apr-16	13-Apr-16	2-Nov-16	2-Nov-16
Sample ID				WG-160900764-20170426-KR-14	WG-160900764-20170426-KR-14A	WG-160900764-20171019-RD15	WG-160900764-20171019-RD15A	WG-160900764-20141009-AD03	WG-160900764-20141127-RD10	WG-160900764-20141127-RD10A	WG-160900764-20150413-RD12	WG-160900764-20150413-RD12A	WG-160900764-20151007-RD11	WG-160900764-20151007-RD11A	WG-160900764-20160413-AM10	WG-160900764-20160413-AM10A	WG-160900764-20161102-AM14	WG-160900764-20161102-AM14A
Sampling Company				STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC
Laboratory				MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX
Laboratory Work Order				B785281	B785281	B7N2183	B7N2183	B4I9252	B4M5208	B4M5208	B565881	B565881	B5K5143	B5K5143	B674114	B674114	B6N8983	B6N8983
Laboratory Sample ID				EHF906	EHF907	FJF453	FJF454	XY3184	YQ4968	YQ4969	ACK469	ACK470	BCZ960	BCZ962	CEO888	CEO889	DJO982	DJO983
Filtered				Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC
Sample Type	Units	ODWS	Ontario SCS															
Semi-Volatile Organic Compounds																		
Phthalates																		
Bis(2-Ethylhexyl)phthalate (DEHP)	µg/L	n/v	10[G] 10[H]	<1	<1	<1	<1	1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Diethyl Phthalate	µg/L	n/v	30[G] 30[H]	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dimethyl Phthalate	µg/L	n/v	30[G] 30[H]	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Polycyclic Aromatic Hydrocarbons																		
Acenaphthene	µg/L	n/v	4.1[G] 4.1[H]	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Acenaphthylene	µg/L	n/v	1[G] 1[H]	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Anthracene	µg/L	n/v	1[G] 1[H]	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(a)anthracene	µg/L	n/v	1[G] 1[H]	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(a)pyrene	µg/L	0.01[C]	0.01[G] 0.01[H]	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Benzo(b/j)fluoranthene	µg/L	n/v	0.1_{s2}[GH]	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(g,h,i)perylene	µg/L	n/v	0.2[G] 0.2[H]	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(k)fluoranthene	µg/L	n/v	0.1[G] 0.1[H]	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Chrysene	µg/L	n/v	0.1[G] 0.1[H]	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Dibenzo(a,h)anthracene	µg/L	n/v	0.2[G] 0.2[H]	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	µg/L	n/v	0.41[G] 0.41[H]	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Fluorene	µg/L	n/v	120[G] 120[H]	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Indeno(1,2,3-cd)pyrene	µg/L	n/v	0.2[G] 0.2[H]	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Methylnaphthalene (Total)	µg/L	n/v	3.2_{s3}[GH]	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28
Methylnaphthalene, 1-	µg/L	n/v	$_{s3}$[GH]	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Methylnaphthalene, 2-	µg/L	n/v	$_{s3}$[GH]	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Naphthalene	µg/L	n/v	7[G] 11[H]	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Phenanthrene	µg/L	n/v	1[G] 1[H]	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Pyrene	µg/L	n/v	4.1[G] 4.1[H]	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Remaining Semi-Volatile Organic Compounds																		
Biphenyl, 1,1'- (Biphenyl)	µg/L	n/v	0.5[G] 0.5[H]	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Bis(2-Chloroethyl)ether	µg/L	n/v	5[G] 5[H]	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Bis(2-Chloroisopropyl)ether	µg/L	n/v	120[G] 120[H]	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Chloroaniline, 4-	µg/L	n/v	10[G] 10[H]	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chlorophenol, 2- (ortho-Chlorophenol)	µg/L	n/v	8.9[G] 8.9[H]	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dichlorobenzidine, 3,3'-	µg/L	n/v	0.5[G] 0.5[H]	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Dichlorophenol, 2,4-	µg/L	900[C] 0.3_t[D]	20[G] 20[H]	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dimethylphenol, 2,4-	µg/L	n/v	59[G] 59[H]	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Dinitrophenol, 2,4-	µg/L	n/v	10[G] 10[H]	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Dinitrotoluene, 2,4-	µg/L	n/v	5_{t13}[GH]	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Dinitrotoluene, 2,6-	µg/L	n/v	5_{t13}[GH]	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Pentachlorophenol	µg/L	60[C] 30_t[D]	30[G] 30[H]	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Phenol	µg/L	n/v	890[G] 890[H]	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Trichlorobenzene, 1,2,4-	µg/L	n/v	3[G] 70[H]	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Trichlorophenol, 2,4,5-	µg/L	n/v	8.9[G] 8.9[H]	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Trichlorophenol, 2,4,6-	µg/L	5[C] 2_t[D]	2[G] 2[H]	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2

See notes on last page

Table 7
Summary of Groundwater Analytical Results - Monitoring Wells
Clarington Transformer Station
Hydro One Networks Inc.

Sample Location				MW6-14 (Contd.)				MW7-14									
Sample Date				26-Apr-17	26-Apr-17	19-Oct-17	19-Oct-17	9-Oct-14	27-Nov-14	27-Nov-14	13-Apr-15	13-Apr-15	7-Oct-15	7-Oct-15	13-Apr-16	13-Apr-16	2-Nov-16	2-Nov-16
Sample ID				WG-160900764-20170426-KR-14	WG-160900764-20170426-KR-14A	WG-160900764-20171019-RD15	WG-160900764-20171019-RD15A	WG-160900764-20141009-AD03	WG-160900764-20141127-RD10	WG-160900764-20141127-RD10A	WG-160900764-20150413-RD12	WG-160900764-20150413-RD12A	WG-160900764-20151007-RD11	WG-160900764-20151007-RD11A	WG-160900764-20160413-AM10	WG-160900764-20160413-AM10A	WG-160900764-20161102-AM14	WG-160900764-20161102-AM14A
Sampling Company				STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC
Laboratory				MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX
Laboratory Work Order				B785281	B785281	B7N2183	B7N2183	B4I9252	B4M5208	B4M5208	B565881	B565881	B5K5143	B5K5143	B674114	B674114	B6N8983	B6N8983
Laboratory Sample ID				EHF906	EHF907	FJF453	FJF454	XY3184	YQ4968	YQ4969	ACK469	ACK470	BCZ960	BCZ962	CEO888	CEO889	DJO982	DJO983
Filtered				Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC
Sample Type	Units	ODWS	Ontario SCS															
Volatile Organic Compounds																		
Acetone	µg/L	n/v	2,700[G] 2,700[H]	<10	-	<10	-	10	<10	-	<10	-	<10	-	<10	-	<10	-
Bromodichloromethane	µg/L	n/v	16[G] 16[H]	<0.50	-	<0.50	-	<0.50	<0.50	-	<0.5	-	<0.50	-	<0.50	-	<0.50	-
Bromoform (Tribromomethane)	µg/L	n/v	5[G] 25[H]	<1.0	-	<1.0	-	<1.0	<1.0	-	<1	-	<1.0	-	<1.0	-	<1.0	-
Bromomethane (Methyl bromide)	µg/L	n/v	0.89[G] 0.89[H]	<0.50	-	<0.50	-	<0.50	<0.50	-	<0.5	-	<0.50	-	<0.50	-	<0.50	-
Carbon Tetrachloride (Tetrachloromethane)	µg/L	2[C]	0.2[G] 0.79[H]	<0.20	-	<0.20	-	<0.20	<0.20	-	<0.2	-	<0.20	-	<0.20	-	<0.20	-
Chlorobenzene (Monochlorobenzene)	µg/L	80[C] 30$_I$[D]	30[G] 30[H]	<0.20	-	<0.20	-	<0.20	<0.20	-	<0.2	-	<0.20	-	<0.20	-	<0.20	-
Chloroform (Trichloromethane)	µg/L	n/v	2[G] 2.4[H]	<0.20	-	<0.20	-	<0.20	<0.20	-	<0.2	-	<0.20	-	<0.20	-	<0.20	-
Dibromochloromethane	µg/L	n/v	25[G] 25[H]	<0.50	-	<0.50	-	<0.50	<0.50	-	<0.5	-	<0.50	-	<0.50	-	<0.50	-
Dichlorobenzene, 1,2-	µg/L	200[C] 3$_I$[D]	3[G] 3[H]	<0.50	-	<0.50	-	<0.50	<0.50	-	<0.5	-	<0.50	-	<0.50	-	<0.50	-
Dichlorobenzene, 1,3-	µg/L	n/v	59[G] 59[H]	<0.50	-	<0.50	-	<0.50	<0.50	-	<0.5	-	<0.50	-	<0.50	-	<0.50	-
Dichlorobenzene, 1,4-	µg/L	5[C] 1$_I$[D]	0.5[G] 1[H]	<0.50	-	<0.50	-	<0.50	<0.50	-	<0.5	-	<0.50	-	<0.50	-	<0.50	-
Dichlorodifluoromethane (Freon 12)	µg/L	n/v	590[G] 590[H]	<1.0	-	<1.0	-	<1.0	<1.0	-	<1	-	<1.0	-	<1.0	-	<1.0	-
Dichloroethane, 1,1-	µg/L	n/v	5[G] 5[H]	<0.20	-	<0.20	-	<0.20	<0.20	-	<0.2	-	<0.20	-	<0.20	-	<0.20	-
Dichloroethane, 1,2-	µg/L	5[B]	0.5[G] 1.6[H]	<0.50	-	<0.50	-	<0.50	<0.50	-	<0.5	-	<0.50	-	<0.50	-	<0.50	-
Dichloroethene, 1,1-	µg/L	14[C]	0.5[G] 1.6[H]	<0.20	-	<0.20	-	<0.20	<0.20	-	<0.2	-	<0.20	-	<0.20	-	<0.20	-
Dichloroethene, cis-1,2-	µg/L	n/v	1.6[G] 1.6[H]	<0.50	-	<0.50	-	<0.50	<0.50	-	<0.5	-	<0.50	-	<0.50	-	<0.50	-
Dichloroethene, trans-1,2-	µg/L	n/v	1.6[G] 1.6[H]	<0.50	-	<0.50	-	<0.50	<0.50	-	<0.5	-	<0.50	-	<0.50	-	<0.50	-
Dichloropropane, 1,2-	µg/L	n/v	0.58[G] 5[H]	<0.20	-	<0.20	-	<0.20	<0.20	-	<0.2	-	<0.20	-	<0.20	-	<0.20	-
Dichloropropene, 1,3- (sum of isomers cis + trans)	µg/L	n/v	0.5$_{s11}$[GH]	<0.50	-	<0.50	-	<0.50	<0.50	-	<0.5	-	<0.50	-	<0.50	-	<0.50	-
Dichloropropene, cis-1,3-	µg/L	n/v	$_{s11}$[GH]	<0.30	-	<0.30	-	<0.30	<0.30	-	<0.3	-	<0.30	-	<0.30	-	<0.30	-
Dichloropropene, trans-1,3-	µg/L	n/v	$_{s11}$[GH]	<0.40	-	<0.40	-	<0.40	<0.40	-	<0.4	-	<0.40	-	<0.40	-	<0.40	-
Ethylene Dibromide (Dibromoethane, 1,2-)	µg/L	n/v	0.2[G] 0.2[H]	<0.20	-	<0.20	-	<0.20	<0.20	-	<0.2	-	<0.20	-	<0.20	-	<0.20	-
Hexane (n-Hexane)	µg/L	n/v	5[G] 51[H]	<1.0	-	<1.0	-	<1.0	<1.0	-	<1	-	<1.0	-	<1.0	-	<1.0	-
Methyl Ethyl Ketone (MEK) (2-Butanone)	µg/L	n/v	1,800[G] 1,800[H]	<10	-	<10	-	<10	<10	-	<10	-	<10	-	<10	-	<10	-
Methyl Isobutyl Ketone (MIBK)	µg/L	n/v	640[G] 640[H]	<5.0	-	<5.0	-	<5.0	<5.0	-	<5	-	<5.0	-	<5.0	-	<5.0	-
Methyl tert-butyl ether (MTBE)	µg/L	n/v	15[G] 15[H]	<0.50	-	<0.50	-	<0.50	<0.50	-	<0.5	-	<0.50	-	<0.50	-	<0.50	-
Methylene Chloride (Dichloromethane)	µg/L	50[C]	26[G] 50[H]	<2.0	-	<2.0	-	<2.0	<2.0	-	<2	-	<2.0	-	<2.0	-	<2.0	-
Styrene	µg/L	n/v	5.4[G] 5.4[H]	<0.50	-	<0.50	-	<0.50	<0.50	-	<0.5	-	<0.50	-	<0.50	-	<0.50	-
Tetrachloroethane, 1,1,1,2-	µg/L	n/v	1.1[G] 1.1[H]	<0.50	-	<0.50	-	<0.50	<0.50	-	<0.5	-	<0.50	-	<0.50	-	<0.50	-
Tetrachloroethane, 1,1,2,2-	µg/L	n/v	0.5[G] 1[H]	<0.50	-	<0.50	-	<0.50	<0.50	-	<0.5	-	<0.50	-	<0.50	-	<0.50	-
Tetrachloroethene (PCE)	µg/L	30[C]	0.5[G] 1.6[H]	<0.20	-	<0.20	-	<0.20	<0.20	-	<0.2	-	<0.20	-	<0.20	-	<0.20	-
Trichloroethane, 1,1,1-	µg/L	n/v	23[G] 200[H]	<0.20	-	<0.20	-	<0.20	<0.20	-	<0.2	-	<0.20	-	<0.20	-	<0.20	-
Trichloroethane, 1,1,2-	µg/L	n/v	0.5[G] 4.7[H]	<0.50	-	<0.50	-	<0.50	<0.50	-	<0.5	-	<0.50	-	<0.50	-	<0.50	-
Trichloroethene (TCE)	µg/L	5[C]	0.5[G] 1.6[H]	<0.20	-	<0.20	-	<0.20	<0.20	-	<0.2	-	<0.20	-	<0.20	-	<0.20	-
Trichlorofluoromethane (Freon 11)	µg/L	n/v	150[G] 150[H]	<0.50	-	<0.50	-	<0.50	<0.50	-	<0.5	-	<0.50	-	<0.50	-	<0.50	-
Trihalomethanes	µg/L	100$_e$[C]	n/v	-	-	<1.0	-	-	-	-	-	-	<0.20	-	-	-	-	-
Vinyl Chloride	µg/L	1[C]	0.5[G] 0.5[H]	<0.20	-	<0.20	-	<0.20	<0.20	-	<0.2	-	<0.20	-	<0.20	-	<0.20	-

See notes on last page

Table 7
Summary of Groundwater Analytical Results - Monitoring Wells
Clarington Transformer Station
Hydro One Networks Inc.

Sample Location				MW7-14 (Contd.)				MW8-15							
Sample Date				26-Apr-17	26-Apr-17	17-Oct-17	17-Oct-17	4-Feb-15	4-Feb-15	4-Feb-15	4-Feb-15	14-Apr-15	14-Apr-15	14-Apr-15	14-Apr-15
Sample ID				WG-160900764-20170426-RD-15	WG-160900764-20170426-RD-15A	WG-160900764-20171017-RD08	WG-160900764-20171017-RD08A	WG-160900764-20150204-RD05	WG-160900764-20150204-RD06	WG-160900764-20150204-RD05A	WG-160900764-20150204-RD06A	WG-160900764-20150414-RD14	WG-160900764-20150414-RD16	WG-160900764-20150414-RD14A	WG-160900764-20150414-RD16A
Sampling Company				STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC
Laboratory				MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX
Laboratory Work Order				B785281	B785281	B7N0947	B7N0947	B520805	B520805	B520805	B520805	B565881	B565881	B565881	B565881
Laboratory Sample ID				EHF908	EHF909	FIY627	FIY628	ZK6647	ZK6649	ZK6648	ZL1119	ACK473	ACK477	ACK474	ACK478
Filtered				Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Field Filtered Metals	Lab Filtered SVOC	Lab Filtered SVOC	Field Filtered Metals	Field Filtered Metals	Lab Filtered SVOC	Lab Filtered SVOC
Sample Type	Units	ODWS	Ontario SCS						Field Duplicate		Field Duplicate		Field Duplicate		Field Duplicate
General Chemistry															
Acidity	mg/L	n/v	n/v	10	-	<5.0	-	15	10	-	-	13	17	-	-
Alkalinity, Bicarbonate (as CaCO3)	mg/L	n/v	n/v	170	-	180	-	210	210	-	-	220	210	-	-
Alkalinity, Carbonate (as CaCO3)	mg/L	n/v	n/v	1.6	-	2.0	-	1.8	1.6	-	-	<1	<1	-	-
Alkalinity, Total (as CaCO3)	mg/L	30-500[E]	n/v	180	-	190	-	210	210	-	-	220	210	-	-
Ammonia (as N)	mg/L	n/v	n/v	<0.050	-	<0.050	-	<0.050	0.065	-	-	0.35	<0.05	-	-
Anion Sum	meq/L	n/v	n/v	5.45	-	5.60	-	6.92	6.93	-	-	6.58	6.52	-	-
Cation Sum	meq/L	n/v	n/v	5.43	-	5.41	-	7.10	6.94	-	-	6.79	6.91	-	-
Chloride	mg/L	250[D]	790[G] 790[H]	29	-	29	-	16	16	-	-	15	15	-	-
Cyanide (Free)	µg/L	200[C]	52[G] 52[H]	<1	-	<1	-	<2	<2	-	-	<2	<2	-	-
Dissolved Organic Carbon (DOC)	mg/L	5[D]	n/v	0.81	-	0.77	-	4.1	4.1	-	-	1.1	1.1	-	-
Electrical Conductivity, Lab	µmhos/cm	n/v	n/a[GH]	540	-	510	-	640	640	-	-	610	610	-	-
Fluoride	mg/L	1.5_b[C]	n/v	0.19	-	0.20	-	0.13	0.13	-	-	0.11	0.11	-	-
Hardness (as CaCO3)	mg/L	80-100[E]	n/v	**250[E]**	-	**250[E]**	-	**320[E]**	**310[E]**	-	-	**320[E]**	**320[E]**	-	-
Ion Balance	%	n/v	n/v	0.180	-	1.70	-	1.25	0.0600	-	-	1.51	2.90	-	-
Langelier Index (at 20 C)	none	n/v	n/v	0.459	-	0.545	-	0.717	0.670	-	-	0.290	0.317	-	-
Langelier Index (at 4 C)	none	n/v	n/v	0.211	-	0.296	-	0.468	0.422	-	-	0.0410	0.0690	-	-
Nitrate (as N)	mg/L	10.0_d[C]	n/v	0.48	-	0.51	-	<0.10	<0.10	-	-	<0.1	<0.1	-	-
Nitrate + Nitrite (as N)	mg/L	10.0_d[C]	n/v	0.48	-	0.53	-	<0.10	<0.10	-	-	-	-	-	-
Nitrite (as N)	mg/L	1.0_d[C]	n/v	<0.010	-	0.019	-	<0.010	<0.010	-	-	<0.01	<0.01	-	-
Orthophosphate(as P)	mg/L	n/v	n/v	0.011	-	<0.010	-	<0.010	<0.010	-	-	<0.01	<0.01	-	-
pH	S.U.	6.5-8.5[E]	n/v	7.99	-	8.06	-	7.95	7.90	-	-	7.51	7.54	-	-
Saturation pH (at 20 C)	none	n/v	n/v	7.53	-	7.51	-	7.23	7.23	-	-	7.22	7.22	-	-
Saturation pH (at 4 C)	none	n/v	n/v	7.78	-	7.76	-	7.48	7.48	-	-	7.47	7.47	-	-
Sulfate	mg/L	500_h[D]	n/v	52	-	48	-	110	110	-	-	88	88	-	-
Total Dissolved Solids	mg/L	500[D]	n/v	334	-	310	-	404	394	-	-	-	-	-	-
Total Dissolved Solids (Calculated)	mg/L	500[D]	n/v	300	-	310	-	400	390	-	-	-	-	-	-
Total Organic Carbon	mg/L	n/v	n/v	0.66	-	0.89	-	3.6	3.4	-	-	1.2	1.2	-	-
Total Suspended Solids	mg/L	n/v	n/v	<10	-	43	-	19	14	-	-	<10	<10	-	-
Turbidity, Lab	NTU	5_j[D,E]	n/v	0.4	-	**6.3[D]**	-	**15[D]**	**13[D]**	-	-	2.2	2.3	-	-
BTEX and Petroleum Hydrocarbons															
Benzene	µg/L	1[C]	0.5[G] 5[H]	<0.20	-	<0.20	-	<0.20	<0.20	-	-	<0.2	<0.2	-	-
Toluene	µg/L	24[D]	24[G] 22[H]	<0.20	-	<0.20	-	<0.20	<0.20	-	-	<0.2	<0.2	-	-
Ethylbenzene	µg/L	2.4[D]	2.4[G] 2.4[H]	<0.20	-	<0.20	-	<0.20	<0.20	-	-	<0.2	<0.2	-	-
Xylene, m & p-	µg/L	300_{s1}[D]	[GH]	<0.20	-	<0.20	-	<0.20	<0.20	-	-	<0.2	<0.2	-	-
Xylene, o-	µg/L	300_{s1}[D]	[GH]	<0.20	-	<0.20	-	<0.20	<0.20	-	-	<0.2	<0.2	-	-
Xylenes, Total	µg/L	300[D]	72_{s1}[G] 300_{s1}[H]	<0.20	-	<0.20	-	<0.20	<0.20	-	-	<0.2	<0.2	-	-
PHC F1 (C6-C10 range)	µg/L	n/v	[GH]	<25	-	<25	-	<25	<25	-	-	<25	<25	-	-
PHC F1 (C6-C10 range) minus BTEX	µg/L	n/v	420_{s7}[GH]	<25	-	<25	-	<25	<25	-	-	<25	<25	-	-
PHC F2 (>C10-C16 range)	µg/L	n/v	150_{s15}[GH]	<100	-	<100	-	<100	<100	-	-	<100	<100	-	-
PHC F3 (>C16-C34 range)	µg/L	n/v	500_{s8}[GH]	<200	-	<200	-	<200	<200	-	-	<200	<200	-	-
PHC F4 (>C34-C50 range)	µg/L	n/v	500_{s10}[GH]	<200	-	<200	-	<200	<200	-	-	<200	<200	-	-
Chromatogram to baseline at C50	none	n/v	n/v	YES	-	YES	-	YES	YES	-	-	YES	YES	-	-

See notes on last page

Table 7
Summary of Groundwater Analytical Results - Monitoring Wells
Clarington Transformer Station
Hydro One Networks Inc.

Sample Location				MW7-14 (Contd.)				MW8-15							
Sample Date				26-Apr-17	26-Apr-17	17-Oct-17	17-Oct-17	4-Feb-15	4-Feb-15	4-Feb-15	4-Feb-15	14-Apr-15	14-Apr-15	14-Apr-15	14-Apr-15
Sample ID				WG-160900764-20170426-RD-15	WG-160900764-20170426-RD-15A	WG-160900764-20171017-RD08	WG-160900764-20171017-RD08A	WG-160900764-20150204-RD05	WG-160900764-20150204-RD06	WG-160900764-20150204-RD05A	WG-160900764-20150204-RD06A	WG-160900764-20150414-RD14	WG-160900764-20150414-RD16	WG-160900764-20150414-RD14A	WG-160900764-20150414-RD16A
Sampling Company				STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC
Laboratory				MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX
Laboratory Work Order				B785281	B785281	B7N0947	B7N0947	B520805	B520805	B520805	B520805	B565881	B565881	B565881	B565881
Laboratory Sample ID				EHF908	EHF909	FIY627	FIY628	ZK6647	ZK6649	ZK6648	ZL1119	ACK473	ACK477	ACK474	ACK478
Filtered				Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Field Filtered Metals	Lab Filtered SVOC	Lab Filtered SVOC	Field Filtered Metals	Field Filtered Metals	Lab Filtered SVOC	Lab Filtered SVOC
Sample Type	Units	ODWS	Ontario SCS						Field Duplicate		Field Duplicate		Field Duplicate		Field Duplicate
Metals															
Aluminum	µg/L	100[E]	n/v	15	-	13	-	<5	<5	-	-	<5	5.9	-	-
Antimony	µg/L	6[B]	6[G] 6[H]	<0.50	-	<0.5	-	<0.5	<0.5	-	-	<0.5	<0.5	-	-
Arsenic	µg/L	25[B]	25[G] 25[H]	<1.0	-	1.4	-	1.4	1.3	-	-	1.6	1.7	-	-
Barium	µg/L	1,000[C]	1,000[G] 1,000[H]	94	-	110	-	72	73	-	-	65	64	-	-
Beryllium	µg/L	n/v	4[G] 4[H]	<0.50	-	<0.5	-	<0.5	<0.5	-	-	<0.5	<0.5	-	-
Boron	µg/L	5,000[B]	5,000[G] 5,000[H]	15	-	18	-	17	17	-	-	<10	<10	-	-
Cadmium	µg/L	5[C]	2.1[G] 2.1[H]	<0.10	-	<0.1	-	<0.1	<0.1	-	-	<0.1	<0.1	-	-
Calcium	µg/L	n/v	n/v	45,000	-	44,000	-	77,000	76,000	-	-	77,000	78,000	-	-
Chromium	µg/L	50[C]	50[G] 50[H]	<5.0	-	<5	-	<5	<5	-	-	<5	<5	-	-
Chromium (Hexavalent)	µg/L	n/v	25[G] 25[H]	<0.50	-	<0.50	-	<0.50	<0.50	-	-	<0.5	<0.5	-	-
Cobalt	µg/L	n/v	3.8[G] 3.8[H]	<0.50	-	<0.5	-	<0.5	<0.5	-	-	<0.5	<0.5	-	-
Copper	µg/L	1,000[D]	69[G] 69[H]	<1.0	-	<1	-	<1	<1	-	-	<1	<1	-	-
Iron	µg/L	300[D]	n/v	<100	-	<100	-	270	280	-	-	**530[D]**	**540[D]**	-	-
Lead	µg/L	10_c[C]	10[G] 10[H]	<0.50	-	<0.5	-	<0.5	<0.5	-	-	<0.5	<0.5	-	-
Magnesium	µg/L	n/v	n/v	33,000	-	33,000	-	30,000	29,000	-	-	30,000	31,000	-	-
Manganese	µg/L	50[D]	n/v	13	-	14	-	21	20	-	-	20	20	-	-
Mercury	µg/L	1[C]	0.1[G] 0.29[H]	<0.1	-	<0.1	-	<0.1	<0.1	-	-	<0.1	<0.1	-	-
Molybdenum	µg/L	n/v	70[G] 70[H]	2.2	-	2	-	1.9	2	-	-	1.2	1.1	-	-
Nickel	µg/L	n/v	100[G] 100[H]	<1.0	-	<1	-	<1	<1	-	-	<1	<1	-	-
Phosphorus	µg/L	n/v	n/v	<100	-	<100	-	<100	<100	-	-	<100	<100	-	-
Potassium	µg/L	n/v	n/v	2,700	-	2,800	-	2,500	2,500	-	-	2,300	2,300	-	-
Selenium	µg/L	10[C]	10[G] 10[H]	<2.0	-	<2	-	<2	<2	-	-	<2	<2	-	-
Silicon	µg/L	n/v	n/v	9,700	-	11,000	-	10,000	10,000	-	-	10,000	10,000	-	-
Silver	µg/L	n/v	1.2[G] 1.2[H]	<0.10	-	<0.1	-	<0.1	<0.1	-	-	<0.1	<0.1	-	-
Sodium	µg/L	$200{,}000_g$[D] $20{,}000_g$[F]	490,000[G] 490,000[H]	9,600	-	9,700	-	16,000	15,000	-	-	8,300	8,500	-	-
Strontium	µg/L	n/v	n/v	400	-	440	-	330	330	-	-	290	300	-	-
Thallium	µg/L	n/v	2[G] 2[H]	<0.050	-	<0.05	-	<0.05	<0.05	-	-	<0.05	<0.05	-	-
Titanium	µg/L	n/v	n/v	<5.0	-	<5	-	<5	<5	-	-	<5	<5	-	-
Uranium	µg/L	20[C]	20[G] 20[H]	1.2	-	0.89	-	0.69	0.69	-	-	0.25	0.26	-	-
Vanadium	µg/L	n/v	6.2[G] 6.2[H]	<0.50	-	<0.5	-	<0.5	<0.5	-	-	<0.5	<0.5	-	-
Zinc	µg/L	5,000[D]	890[G] 890[H]	<5.0	-	<5	-	<5	<5	-	-	<5	<5	-	-
Zirconium	µg/L	n/v	n/v	<1.0	-	<1	-	<1	<1	-	-	<1	<1	-	-
Polychlorinated Biphenyls															
Aroclor 1242	µg/L	n/v	$_{s14}$[GH]	<0.05	-	<0.05	-	<0.05	<0.05	-	-	<0.05	<0.05	-	-
Aroclor 1248	µg/L	n/v	$_{s14}$[GH]	<0.05	-	<0.05	-	<0.05	<0.05	-	-	<0.05	<0.05	-	-
Aroclor 1254	µg/L	n/v	$_{s14}$[GH]	<0.05	-	<0.05	-	<0.05	<0.05	-	-	<0.05	<0.05	-	-
Aroclor 1260	µg/L	n/v	$_{s14}$[GH]	<0.05	-	<0.05	-	<0.05	<0.05	-	-	<0.05	<0.05	-	-
Polychlorinated Biphenyls (PCBs)	µg/L	3[B]	0.2_{s14}[GH]	<0.05	-	<0.05	-	<0.05	<0.05	-	-	<0.05	<0.05	-	-

See notes on last page

Table 7
Summary of Groundwater Analytical Results - Monitoring Wells
Clarington Transformer Station
Hydro One Networks Inc.

Sample Location				MW7-14 (Contd.)				MW8-15							
Sample Date				26-Apr-17	26-Apr-17	17-Oct-17	17-Oct-17	4-Feb-15	4-Feb-15	4-Feb-15	4-Feb-15	14-Apr-15	14-Apr-15	14-Apr-15	14-Apr-15
Sample ID				WG-160900764-20170426-RD-15	WG-160900764-20170426-RD-15A	WG-160900764-20171017-RD08	WG-160900764-20171017-RD08A	WG-160900764-20150204-RD05	WG-160900764-20150204-RD06	WG-160900764-20150204-RD05A	WG-160900764-20150204-RD06A	WG-160900764-20150414-RD14	WG-160900764-20150414-RD16	WG-160900764-20150414-RD14A	WG-160900764-20150414-RD16A
Sampling Company				STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC
Laboratory				MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX
Laboratory Work Order				B785281	B785281	B7N0947	B7N0947	B520805	B520805	B520805	B520805	B565881	B565881	B565881	B565881
Laboratory Sample ID				EHF908	EHF909	FIY627	FIY628	ZK6647	ZK6649	ZK6648	ZL1119	ACK473	ACK477	ACK474	ACK478
Filtered				Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Field Filtered Metals	Lab Filtered SVOC	Lab Filtered SVOC	Field Filtered Metals	Field Filtered Metals	Lab Filtered SVOC	Lab Filtered SVOC
Sample Type	Units	ODWS	Ontario SCS						Field Duplicate		Field Duplicate		Field Duplicate		Field Duplicate
Semi-Volatile Organic Compounds															
Phthalates															
Bis(2-Ethylhexyl)phthalate (DEHP)	µg/L	n/v	10[G] 10[H]	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Diethyl Phthalate	µg/L	n/v	30[G] 30[H]	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.2
Dimethyl Phthalate	µg/L	n/v	30[G] 30[H]	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.1
Polycyclic Aromatic Hydrocarbons															
Acenaphthene	µg/L	n/v	4.1[G] 4.1[H]	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Acenaphthylene	µg/L	n/v	1[G] 1[H]	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Anthracene	µg/L	n/v	1[G] 1[H]	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(a)anthracene	µg/L	n/v	1[G] 1[H]	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(a)pyrene	µg/L	0.01[C]	0.01[G] 0.01[H]	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Benzo(b/j)fluoranthene	µg/L	n/v	0.1_{s2}[GH]	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(g,h,i)perylene	µg/L	n/v	0.2[G] 0.2[H]	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(k)fluoranthene	µg/L	n/v	0.1[G] 0.1[H]	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Chrysene	µg/L	n/v	0.1[G] 0.1[H]	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Dibenzo(a,h)anthracene	µg/L	n/v	0.2[G] 0.2[H]	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	µg/L	n/v	0.41[G] 0.41[H]	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Fluorene	µg/L	n/v	120[G] 120[H]	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Indeno(1,2,3-cd)pyrene	µg/L	n/v	0.2[G] 0.2[H]	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Methylnaphthalene (Total)	µg/L	n/v	3.2_{s3}[GH]	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28
Methylnaphthalene, 1-	µg/L	n/v	$_{s3}$[GH]	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Methylnaphthalene, 2-	µg/L	n/v	$_{s3}$[GH]	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Naphthalene	µg/L	n/v	7[G] 11[H]	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Phenanthrene	µg/L	n/v	1[G] 1[H]	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Pyrene	µg/L	n/v	4.1[G] 4.1[H]	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Remaining Semi-Volatile Organic Compounds															
Biphenyl, 1,1'- (Biphenyl)	µg/L	n/v	0.5[G] 0.5[H]	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Bis(2-Chloroethyl)ether	µg/L	n/v	5[G] 5[H]	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Bis(2-Chloroisopropyl)ether	µg/L	n/v	120[G] 120[H]	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Chloroaniline, 4-	µg/L	n/v	10[G] 10[H]	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chlorophenol, 2- (ortho-Chlorophenol)	µg/L	n/v	8.9[G] 8.9[H]	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dichlorobenzidine, 3,3'-	µg/L	n/v	0.5[G] 0.5[H]	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Dichlorophenol, 2,4-	µg/L	900[C] 0.3_t[D]	20[G] 20[H]	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dimethylphenol, 2,4-	µg/L	n/v	59[G] 59[H]	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Dinitrophenol, 2,4-	µg/L	n/v	10[G] 10[H]	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Dinitrotoluene, 2,4-	µg/L	n/v	5_{t13}[GH]	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Dinitrotoluene, 2,6-	µg/L	n/v	5_{t13}[GH]	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Pentachlorophenol	µg/L	60[C] 30_t[D]	30[G] 30[H]	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Phenol	µg/L	n/v	890[G] 890[H]	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Trichlorobenzene, 1,2,4-	µg/L	n/v	3[G] 70[H]	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Trichlorophenol, 2,4,5-	µg/L	n/v	8.9[G] 8.9[H]	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Trichlorophenol, 2,4,6-	µg/L	5[C] 2_t[D]	2[G] 2[H]	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2

See notes on last page

Table 7
Summary of Groundwater Analytical Results - Monitoring Wells
Clarington Transformer Station
Hydro One Networks Inc.

Sample Location				MW7-14 (Contd.)				MW8-15							
Sample Date				26-Apr-17	26-Apr-17	17-Oct-17	17-Oct-17	4-Feb-15	4-Feb-15	4-Feb-15	4-Feb-15	14-Apr-15	14-Apr-15	14-Apr-15	14-Apr-15
Sample ID				WG-160900764-20170426-RD-15	WG-160900764-20170426-RD-15A	WG-160900764-20171017-RD08	WG-160900764-20171017-RD08A	WG-160900764-20150204-RD05	WG-160900764-20150204-RD06	WG-160900764-20150204-RD05A	WG-160900764-20150204-RD06A	WG-160900764-20150414-RD14	WG-160900764-20150414-RD16	WG-160900764-20150414-RD14A	WG-160900764-20150414-RD16A
Sampling Company				STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC
Laboratory				MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX
Laboratory Work Order				B785281	B785281	B7N0947	B7N0947	B520805	B520805	B520805	B520805	B565881	B565881	B565881	B565881
Laboratory Sample ID				EHF908	EHF909	FIY627	FIY628	ZK6647	ZK6649	ZK6648	ZL1119	ACK473	ACK477	ACK474	ACK478
Filtered				Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Field Filtered Metals	Lab Filtered SVOC	Lab Filtered SVOC	Field Filtered Metals	Field Filtered Metals	Lab Filtered SVOC	Lab Filtered SVOC
Sample Type	Units	ODWS	Ontario SCS						Field Duplicate		Field Duplicate		Field Duplicate		Field Duplicate
Volatile Organic Compounds															
Acetone	µg/L	n/v	2,700[G] 2,700[H]	<10	-	<10	-	<10	<10	-	-	<10	<10	-	-
Bromodichloromethane	µg/L	n/v	16[G] 16[H]	<0.50	-	<0.50	-	<0.50	<0.50	-	-	<0.5	<0.5	-	-
Bromoform (Tribromomethane)	µg/L	n/v	5[G] 25[H]	<1.0	-	<1.0	-	<1.0	<1.0	-	-	<1	<1	-	-
Bromomethane (Methyl bromide)	µg/L	n/v	0.89[G] 0.89[H]	<0.50	-	<0.50	-	<0.50	<0.50	-	-	<0.5	<0.5	-	-
Carbon Tetrachloride (Tetrachloromethane)	µg/L	2[C]	0.2[G] 0.79[H]	<0.20	-	<0.20	-	<0.20	<0.20	-	-	<0.2	<0.2	-	-
Chlorobenzene (Monochlorobenzene)	µg/L	80[C] 30$_t$[D]	30[G] 30[H]	<0.20	-	<0.20	-	<0.20	<0.20	-	-	<0.2	<0.2	-	-
Chloroform (Trichloromethane)	µg/L	n/v	2[G] 2.4[H]	<0.20	-	<0.20	-	<0.20	<0.20	-	-	<0.2	<0.2	-	-
Dibromochloromethane	µg/L	n/v	25[G] 25[H]	<0.50	-	<0.50	-	<0.50	<0.50	-	-	<0.5	<0.5	-	-
Dichlorobenzene, 1,2-	µg/L	200[C] 3$_t$[D]	3[G] 3[H]	<0.50	-	<0.50	-	<0.50	<0.50	-	-	<0.5	<0.5	-	-
Dichlorobenzene, 1,3-	µg/L	n/v	59[G] 59[H]	<0.50	-	<0.50	-	<0.50	<0.50	-	-	<0.5	<0.5	-	-
Dichlorobenzene, 1,4-	µg/L	5[C] 1$_t$[D]	0.5[G] 1[H]	<0.50	-	<0.50	-	<0.50	<0.50	-	-	<0.5	<0.5	-	-
Dichlorodifluoromethane (Freon 12)	µg/L	n/v	590[G] 590[H]	<1.0	-	<1.0	-	<1.0	<1.0	-	-	<1	<1	-	-
Dichloroethane, 1,1-	µg/L	n/v	5[G] 5[H]	<0.20	-	<0.20	-	<0.20	<0.20	-	-	<0.2	<0.2	-	-
Dichloroethane, 1,2-	µg/L	5[B]	0.5[G] 1.6[H]	<0.50	-	<0.50	-	<0.50	<0.50	-	-	<0.5	<0.5	-	-
Dichloroethene, 1,1-	µg/L	14[C]	0.5[G] 1.6[H]	<0.20	-	<0.20	-	<0.20	<0.20	-	-	<0.2	<0.2	-	-
Dichloroethene, cis-1,2-	µg/L	n/v	1.6[G] 1.6[H]	<0.50	-	<0.50	-	<0.50	<0.50	-	-	<0.5	<0.5	-	-
Dichloroethene, trans-1,2-	µg/L	n/v	1.6[G] 1.6[H]	<0.50	-	<0.50	-	<0.50	<0.50	-	-	<0.5	<0.5	-	-
Dichloropropane, 1,2-	µg/L	n/v	0.58[G] 5[H]	<0.20	-	<0.20	-	<0.20	<0.20	-	-	<0.2	<0.2	-	-
Dichloropropene, 1,3- (sum of isomers cis + trans)	µg/L	n/v	0.5$_{s11}$[GH]	<0.50	-	<0.50	-	<0.50	<0.50	-	-	<0.5	<0.5	-	-
Dichloropropene, cis-1,3-	µg/L	n/v	$_{s11}$[GH]	<0.30	-	<0.30	-	<0.30	<0.30	-	-	<0.3	<0.3	-	-
Dichloropropene, trans-1,3-	µg/L	n/v	$_{s11}$[GH]	<0.40	-	<0.40	-	<0.40	<0.40	-	-	<0.4	<0.4	-	-
Ethylene Dibromide (Dibromoethane, 1,2-)	µg/L	n/v	0.2[G] 0.2[H]	<0.20	-	<0.20	-	<0.20	<0.20	-	-	<0.2	<0.2	-	-
Hexane (n-Hexane)	µg/L	n/v	5[G] 51[H]	<1.0	-	<1.0	-	<1.0	<1.0	-	-	<1	<1	-	-
Methyl Ethyl Ketone (MEK) (2-Butanone)	µg/L	n/v	1,800[G] 1,800[H]	<10	-	<10	-	<10	<10	-	-	<10	<10	-	-
Methyl Isobutyl Ketone (MIBK)	µg/L	n/v	640[G] 640[H]	<5.0	-	<5.0	-	<5.0	<5.0	-	-	<5	<5	-	-
Methyl tert-butyl ether (MTBE)	µg/L	n/v	15[G] 15[H]	<0.50	-	<0.50	-	<0.50	<0.50	-	-	<0.5	<0.5	-	-
Methylene Chloride (Dichloromethane)	µg/L	50[C]	26[G] 50[H]	<2.0	-	<2.0	-	<2.0	<2.0	-	-	<2	<2	-	-
Styrene	µg/L	n/v	5.4[G] 5.4[H]	<0.50	-	<0.50	-	<0.50	<0.50	-	-	<0.5	<0.5	-	-
Tetrachloroethane, 1,1,1,2-	µg/L	n/v	1.1[G] 1.1[H]	<0.50	-	<0.50	-	<0.50	<0.50	-	-	<0.5	<0.5	-	-
Tetrachloroethane, 1,1,2,2-	µg/L	n/v	0.5[G] 1[H]	<0.50	-	<0.50	-	<0.50	<0.50	-	-	<0.5	<0.5	-	-
Tetrachloroethene (PCE)	µg/L	30[C]	0.5[G] 1.6[H]	<0.20	-	<0.20	-	<0.20	<0.20	-	-	<0.2	<0.2	-	-
Trichloroethane, 1,1,1-	µg/L	n/v	23[G] 200[H]	<0.20	-	<0.20	-	<0.20	<0.20	-	-	<0.2	<0.2	-	-
Trichloroethane, 1,1,2-	µg/L	n/v	0.5[G] 4.7[H]	<0.50	-	<0.50	-	<0.50	<0.50	-	-	<0.5	<0.5	-	-
Trichloroethene (TCE)	µg/L	5[C]	0.5[G] 1.6[H]	<0.20	-	<0.20	-	<0.20	<0.20	-	-	<0.2	<0.2	-	-
Trichlorofluoromethane (Freon 11)	µg/L	n/v	150[G] 150[H]	<0.50	-	<0.50	-	<0.50	<0.50	-	-	<0.5	<0.5	-	-
Trihalomethanes	µg/L	100$_e$[C]	n/v	-	-	<1.0	-	-	-	-	-	-	-	-	-
Vinyl Chloride	µg/L	1[C]	0.5[G] 0.5[H]	<0.20	-	<0.20	-	<0.20	<0.20	-	-	<0.2	<0.2	-	-

See notes on last page

Table 7
Summary of Groundwater Analytical Results - Monitoring Wells
Clarington Transformer Station
Hydro One Networks Inc.

Sample Location				FIELD BLANK											TRIP BLANK							
Sample Date				20-Nov-14	26-Nov-14	26-Nov-14	27-Nov-14	27-Nov-14	22-Dec-14	22-Dec-14	14-Apr-16	2-Nov-16	27-Apr-17	17-Oct-17	20-Nov-14	27-Nov-14	27-Nov-14	7-Oct-15	14-Apr-16	3-Nov-16	27-Apr-17	19-Oct-17
Sample ID				WG-160900764-20141120-CD05	WG-160900764-20141126 RD06	WG-160900764-20141126 RD06A	WG-160900764-20141127-RD11	WG-160900764-20141127-RD11A	WG-160900764-20141222-MF04	WG-160900764-20141222-MF04A	FIELD BLANK-1	FIELD BALNK-1	FIELD BLANK	FIELD BLANK	TRIP BLANK	TBLK-ABNSIM-W-14-2700	TRIP BLANK LOT 3316	TBLK-F1BB-15-3020	TRIP BLANK	TRIP BLANK	TRIP BLANK	TRIP BLANK
Sampling Company				STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC
Laboratory				MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX
Laboratory Work Order				B4M0745	B4M4069	B4M4069	B4M5208	B4M5208	B4O2426	B4O2426	B674631	B6N8983	B785281	B7N0947	B4M0745	B4M5208	B4M5208	B5K5143	B674631	B6N9173	B785281	B7N2183
Laboratory Sample ID				YO3448	YP9579	YP9580	YQ4970	YQ4971	YY7645	YY7646	CER550	DJO984	EHF913	FIY633	YO3566	YQ4972	YQ4973	BCZ976	CER551	DJP836	EHF912	FJF455
Filtered				-	-	-	-	-	-	-					-	-	-					
Sample Type	Units	ODWS	Ontario SCS	Field Blank	Field Blank	Field Blank	Field Blank	Field Blank	Field Blank	Field Blank	Field Blank	Field Blank	Field Blank	Field Blank	Trip Blank	Trip Blank	Trip Blank	Trip Blank	Trip Blank	Trip Blank	Trip Blank	Trip Blank
General Chemistry																						
Acidity	mg/L	n/v	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Alkalinity, Bicarbonate (as CaCO3)	mg/L	n/v	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Alkalinity, Carbonate (as CaCO3)	mg/L	n/v	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Alkalinity, Total (as CaCO3)	mg/L	30-500[E]	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ammonia (as N)	mg/L	n/v	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Anion Sum	meq/L	n/v	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cation Sum	meq/L	n/v	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chloride	mg/L	250[D]	790[G] 790[H]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cyanide (Free)	µg/L	200[C]	52[G] 52[H]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dissolved Organic Carbon (DOC)	mg/L	5[D]	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Electrical Conductivity, Lab	µmhos/cm	n/v	n/a[GH]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fluoride	mg/L	1.5_b[C]	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hardness (as CaCO3)	mg/L	80-100[E]	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ion Balance	%	n/v	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Langelier Index (at 20 C)	none	n/v	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Langelier Index (at 4 C)	none	n/v	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nitrate (as N)	mg/L	10.0_d[C]	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nitrate + Nitrite (as N)	mg/L	10.0_d[C]	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nitrite (as N)	mg/L	1.0_d[C]	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Orthophosphate(as P)	mg/L	n/v	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
pH	S.U.	6.5-8.5[E]	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Saturation pH (at 20 C)	none	n/v	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Saturation pH (at 4 C)	none	n/v	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sulfate	mg/L	500_h[D]	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Dissolved Solids	mg/L	500[D]	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Dissolved Solids (Calculated)	mg/L	500[D]	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Organic Carbon	mg/L	n/v	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Suspended Solids	mg/L	n/v	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Turbidity, Lab	NTU	5_j[D,E]	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BTEX and Petroleum Hydrocarbons																						
Benzene	µg/L	1[C]	0.5[G] 5[H]	<0.20	-	-	<0.20	-	-	-	<0.20	<0.20	<0.20	<0.20	<0.20	-	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Toluene	µg/L	24[D]	24[G] 22[H]	<0.20	-	-	<0.20	-	-	-	<0.20	<0.20	<0.20	<0.20	<0.20	-	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Ethylbenzene	µg/L	2.4[D]	2.4[G] 2.4[H]	<0.20	-	-	<0.20	-	-	-	<0.20	<0.20	<0.20	<0.20	<0.20	-	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Xylene, m & p-	µg/L	300_{s1}[D]	$_{s1}$[GH]	<0.20	-	-	<0.20	-	-	-	<0.20	<0.20	<0.20	<0.20	<0.20	-	<0.20	<0.40	<0.20	<0.20	<0.20	<0.20
Xylene, o-	µg/L	300_{s1}[D]	$_{s1}$[GH]	<0.20	-	-	<0.20	-	-	-	<0.20	<0.20	<0.20	<0.20	<0.20	-	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Xylenes, Total	µg/L	300[D]	72_{s1}[G] 300_{s1}[H]	<0.20	-	-	<0.20	-	-	-	<0.20	<0.20	<0.20	<0.20	<0.20	-	<0.20	<0.40	<0.20	<0.20	<0.20	<0.20
PHC F1 (C6-C10 range)	µg/L	n/v	$_{s7}$[GH]	-	-	-	-	-	-	-	<25	<25	-	<25	-	-	-	<25	<25	<25	-	<25
PHC F1 (C6-C10 range) minus BTEX	µg/L	n/v	420_{s7}[GH]	-	-	-	-	-	-	-	<25	<25	-	<25	-	-	-	<25	<25	<25	-	<25
PHC F2 (>C10-C16 range)	µg/L	n/v	150_{s15}[GH]	-	-	-	-	-	-	-	<100	<100	-	-	-	-	-	-	-	-	-	-
PHC F3 (>C16-C34 range)	µg/L	n/v	500_{s8}[GH]	-	-	-	-	-	-	-	<200	<200	-	-	-	-	-	-	-	-	-	-
PHC F4 (>C34-C50 range)	µg/L	n/v	500_{s10}[GH]	-	-	-	-	-	-	-	<200	<200	-	-	-	-	-	-	-	-	-	-
Chromatogram to baseline at C50	none	n/v	n/v	-	-	-	-	-	-	-	YES	YES	-	-	-	-	-	-	-	-	-	-

See notes on last page

Table 7
Summary of Groundwater Analytical Results - Monitoring Wells
Clarington Transformer Station
Hydro One Networks Inc.

Sample Location				FIELD BLANK											TRIP BLANK							
Sample Date				20-Nov-14	26-Nov-14	26-Nov-14	27-Nov-14	27-Nov-14	22-Dec-14	22-Dec-14	14-Apr-16	2-Nov-16	27-Apr-17	17-Oct-17	20-Nov-14	27-Nov-14	27-Nov-14	7-Oct-15	14-Apr-16	3-Nov-16	27-Apr-17	19-Oct-17
Sample ID				WG-160900764-20141120-CD05	WG-160900764-20141126 RD06	WG-160900764-20141126 RD06A	WG-160900764-20141127-RD11	WG-160900764-20141127-RD11A	WG-160900764-20141222-MF04	WG-160900764-20141222-MF04A	FIELD BLANK-1	FIELD BALNK-1	FIELD BLANK	FIELD BLANK	TRIP BLANK	TBLK-ABNSIM-W-14-2700	TRIP BLANK LOT 3316	TBLK-F1BB-15-3020	TRIP BLANK	TRIP BLANK	TRIP BLANK	TRIP BLANK
Sampling Company				STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC
Laboratory				MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX
Laboratory Work Order				B4M0745	B4M4069	B4M4069	B4M5208	B4M5208	B4O2426	B4O2426	B674631	B6N8983	B785281	B7N0947	B4M0745	B4M5208	B4M5208	B5K5143	B674631	B6N9173	B785281	B7N2183
Laboratory Sample ID				YO3448	YP9579	YP9580	YQ4970	YQ4971	YY7645	YY7646	CER550	DJO984	EHF913	FIY633	YO3566	YQ4972	YQ4973	BCZ976	CER551	DJP836	EHF912	FJF455
Filtered				-	-	-	-	-	-	-					-	-	-					
Sample Type	Units	ODWS	Ontario SCS	Field Blank	Field Blank	Field Blank	Field Blank	Field Blank	Field Blank	Field Blank	Field Blank	Field Blank	Field Blank	Field Blank	Trip Blank	Trip Blank	Trip Blank	Trip Blank	Trip Blank	Trip Blank	Trip Blank	Trip Blank
Metals																						
Aluminum	µg/L	100[E]	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Antimony	µg/L	6[B]	6[G] 6[H]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Arsenic	µg/L	25[B]	25[G] 25[H]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Barium	µg/L	1,000[C]	1,000[G] 1,000[H]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Beryllium	µg/L	n/v	4[G] 4[H]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Boron	µg/L	5,000[B]	5,000[G] 5,000[H]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cadmium	µg/L	5[C]	2.1[G] 2.1[H]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Calcium	µg/L	n/v	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chromium	µg/L	50[C]	50[G] 50[H]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chromium (Hexavalent)	µg/L	n/v	25[G] 25[H]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cobalt	µg/L	n/v	3.8[G] 3.8[H]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Copper	µg/L	1,000[D]	69[G] 69[H]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Iron	µg/L	300[D]	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lead	µg/L	10$_c$[C]	10[G] 10[H]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Magnesium	µg/L	n/v	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Manganese	µg/L	50[D]	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mercury	µg/L	1[C]	0.1[G] 0.29[H]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Molybdenum	µg/L	n/v	70[G] 70[H]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nickel	µg/L	n/v	100[G] 100[H]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Phosphorus	µg/L	n/v	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Potassium	µg/L	n/v	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Selenium	µg/L	10[C]	10[G] 10[H]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Silicon	µg/L	n/v	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Silver	µg/L	n/v	1.2[G] 1.2[H]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sodium	µg/L	200,000$_g$[D] 20,000$_g$[F]	490,000[G] 490,000[H]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Strontium	µg/L	n/v	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Thallium	µg/L	n/v	2[G] 2[H]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Titanium	µg/L	n/v	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Uranium	µg/L	20[C]	20[G] 20[H]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vanadium	µg/L	n/v	6.2[G] 6.2[H]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Zinc	µg/L	5,000[D]	890[G] 890[H]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Zirconium	µg/L	n/v	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Polychlorinated Biphenyls																						
Aroclor 1242	µg/L	n/v	$_{s14}$[GH]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aroclor 1248	µg/L	n/v	$_{s14}$[GH]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aroclor 1254	µg/L	n/v	$_{s14}$[GH]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aroclor 1260	µg/L	n/v	$_{s14}$[GH]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Polychlorinated Biphenyls (PCBs)	µg/L	3[B]	0.2$_{s14}$[GH]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

See notes on last page

Table 7
Summary of Groundwater Analytical Results - Monitoring Wells
Clarington Transformer Station
Hydro One Networks Inc.

Sample Location				FIELD BLANK											TRIP BLANK							
Sample Date				20-Nov-14	26-Nov-14	26-Nov-14	27-Nov-14	27-Nov-14	22-Dec-14	22-Dec-14	14-Apr-16	2-Nov-16	27-Apr-17	17-Oct-17	20-Nov-14	27-Nov-14	27-Nov-14	7-Oct-15	14-Apr-16	3-Nov-16	27-Apr-17	19-Oct-17
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Sampling Company				STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC
Laboratory				MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX
Laboratory Work Order				B4M0745	B4M4069	B4M4069	B4M5208	B4M5208	B4O2426	B4O2426	B674631	B6N8983	B785281	B7N0947	B4M0745	B4M5208	B4M5208	B5K5143	B674631	B6N9173	B785281	B7N2183
Laboratory Sample ID				YO3448	YP9579	YP9580	YQ4970	YQ4971	YY7645	YY7646	CER550	DJO984	EHF913	FIY633	YO3566	YQ4972	YQ4973	BCZ976	CER551	DJP836	EHF912	FJF455
Filtered				-	-	-	-	-	-	-					-	-	-					
Sample Type	Units	ODWS	Ontario SCS	Field Blank	Field Blank	Field Blank	Field Blank	Field Blank	Field Blank	Field Blank	Field Blank	Field Blank	Field Blank	Field Blank	Trip Blank	Trip Blank	Trip Blank	Trip Blank	Trip Blank	Trip Blank	Trip Blank	Trip Blank
Semi-Volatile Organic Compounds																						
Phthalates																						
Bis(2-Ethylhexyl)phthalate (DEHP)	µg/L	n/v	10[G] 10[H]	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	-	<1	-	-	-	<1	<1	<1
Diethyl Phthalate	µg/L	n/v	30[G] 30[H]	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1	-	-	-	<0.1	<0.1	<0.1
Dimethyl Phthalate	µg/L	n/v	30[G] 30[H]	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1	-	-	-	<0.1	<0.1	<0.1
Polycyclic Aromatic Hydrocarbons																						
Acenaphthene	µg/L	n/v	4.1[G] 4.1[H]	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	-	<0.2	-	-	-	<0.2	<0.2	<0.2
Acenaphthylene	µg/L	n/v	1[G] 1[H]	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	-	<0.2	-	-	-	<0.2	<0.2	<0.2
Anthracene	µg/L	n/v	1[G] 1[H]	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	-	-	-	<0.05	<0.05	<0.05
Benzo(a)anthracene	µg/L	n/v	1[G] 1[H]	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	-	-	-	<0.05	<0.05	<0.05
Benzo(a)pyrene	µg/L	0.01[C]	0.01[G] 0.01[H]	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	-	<0.01	-	-	-	<0.01	<0.01	<0.01
Benzo(b/j)fluoranthene	µg/L	n/v	0.1_{s2}[GH]	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	-	-	-	<0.05	<0.05	<0.05
Benzo(g,h,i)perylene	µg/L	n/v	0.2[G] 0.2[H]	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	-	-	-	<0.05	<0.05	<0.05
Benzo(k)fluoranthene	µg/L	n/v	0.1[G] 0.1[H]	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	-	-	-	<0.05	<0.05	<0.05
Chrysene	µg/L	n/v	0.1[G] 0.1[H]	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	-	-	-	<0.05	<0.05	<0.05
Dibenzo(a,h)anthracene	µg/L	n/v	0.2[G] 0.2[H]	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1	-	-	-	<0.1	<0.1	<0.1
Fluoranthene	µg/L	n/v	0.41[G] 0.41[H]	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	-	<0.2	-	-	-	<0.2	<0.2	<0.2
Fluorene	µg/L	n/v	120[G] 120[H]	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	-	<0.2	-	-	-	<0.2	<0.2	<0.2
Indeno(1,2,3-cd)pyrene	µg/L	n/v	0.2[G] 0.2[H]	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1	-	-	-	<0.1	<0.1	<0.1
Methylnaphthalene (Total)	µg/L	n/v	3.2_{s3}[GH]	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	-	<0.28	-	-	-	<0.28	<0.28	<0.28
Methylnaphthalene, 1-	µg/L	n/v	$_{s3}$[GH]	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	-	<0.2	-	-	-	<0.2	<0.2	<0.2
Methylnaphthalene, 2-	µg/L	n/v	$_{s3}$[GH]	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	-	<0.2	-	-	-	<0.2	<0.2	<0.2
Naphthalene	µg/L	n/v	7[G] 11[H]	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	-	<0.2	-	-	-	<0.2	<0.2	<0.2
Phenanthrene	µg/L	n/v	1[G] 1[H]	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1	-	-	-	<0.1	<0.1	<0.1
Pyrene	µg/L	n/v	4.1[G] 4.1[H]	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	-	-	-	<0.05	<0.05	<0.05
Remaining Semi-Volatile Organic Compounds																						
Biphenyl, 1,1'- (Biphenyl)	µg/L	n/v	0.5[G] 0.5[H]	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1	-	-	-	<0.1	<0.1	<0.1
Bis(2-Chloroethyl)ether	µg/L	n/v	5[G] 5[H]	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	-	-	-	<0.5	<0.5	<0.5
Bis(2-Chloroisopropyl)ether	µg/L	n/v	120[G] 120[H]	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	-	-	-	<0.5	<0.5	<0.5
Chloroaniline, 4-	µg/L	n/v	10[G] 10[H]	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	-	<1	-	-	-	<1	<1	<1
Chlorophenol, 2- (ortho-Chlorophenol)	µg/L	n/v	8.9[G] 8.9[H]	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1	-	-	-	<0.1	<0.1	<0.1
Dichlorobenzidine, 3,3'-	µg/L	n/v	0.5[G] 0.5[H]	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	-	-	-	<0.5	<0.5	<0.5
Dichlorophenol, 2,4-	µg/L	900[C] 0.3_t[D]	20[G] 20[H]	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1	-	-	-	<0.1	<0.1	<0.1
Dimethylphenol, 2,4-	µg/L	n/v	59[G] 59[H]	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	-	-	-	<0.5	<0.5	<0.5
Dinitrophenol, 2,4-	µg/L	n/v	10[G] 10[H]	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	-	<2	-	-	-	<2	<2	<2
Dinitrotoluene, 2,4-	µg/L	n/v	5_{t13}[GH]	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	-	<0.3	-	-	-	<0.3	<0.3	<0.3
Dinitrotoluene, 2,6-	µg/L	n/v	5_{t13}[GH]	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	-	<0.3	-	-	-	<0.3	<0.3	<0.3
Pentachlorophenol	µg/L	60[C] 30_t[D]	30[G] 30[H]	<0.1	<0.1	<0.1	<0.1	<0.1	1.2	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1	-	-	-	<0.1	<0.1	<0.1
Phenol	µg/L	n/v	890[G] 890[H]	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	-	-	-	<0.5	<0.5	<0.5
Trichlorobenzene, 1,2,4-	µg/L	n/v	3[G] 70[H]	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1	-	-	-	<0.1	<0.1	<0.1
Trichlorophenol, 2,4,5-	µg/L	n/v	8.9[G] 8.9[H]	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	-	<0.2	-	-	-	<0.2	<0.2	<0.2
Trichlorophenol, 2,4,6-	µg/L	5[C] 2_t[D]	2[G] 2[H]	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	-	<0.2	-	-	-	<0.2	<0.2	<0.2

See notes on last page

Table 7
Summary of Groundwater Analytical Results - Monitoring Wells
Clarington Transformer Station
Hydro One Networks Inc.

Sample Location				FIELD BLANK										TRIP BLANK							
Sample Date				20-Nov-14	26-Nov-14	26-Nov-14	27-Nov-14	27-Nov-14	22-Dec-14	22-Dec-14	14-Apr-16	2-Nov-16	27-Apr-17	17-Oct-17	20-Nov-14	27-Nov-14	27-Nov-14	7-Oct-15	14-Apr-16	3-Nov-16	27-Apr-17	19-Oct-17
Sample ID				WG-160900764-20141120-CD05	WG-160900764-20141126 RD06	WG-160900764-20141126 RD06A	WG-160900764-20141127-RD11	WG-160900764-20141127-RD11A	WG-160900764-20141222-MF04	WG-160900764-20141222-MF04A	FIELD BLANK-1	FIELD BALNK-1	FIELD BLANK	FIELD BLANK	TRIP BLANK	TBLK-ABNSIM-W-14-2700	TRIP BLANK LOT 3316	TBLK-F1BB-15-3020	TRIP BLANK	TRIP BLANK	TRIP BLANK	TRIP BLANK
Sampling Company				STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC
Laboratory				MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX
Laboratory Work Order				B4M0745	B4M4069	B4M4069	B4M5208	B4M5208	B4O2426	B4O2426	B674631	B6N8983	B785281	B7N0947	B4M0745	B4M5208	B4M5208	B5K5143	B674631	B6N9173	B785281	B7N2183
Laboratory Sample ID				YO3448	YP9579	YP9580	YQ4970	YQ4971	YY7645	YY7646	CER550	DJO984	EHF913	FIY633	YO3566	YQ4972	YQ4973	BCZ976	CER551	DJP836	EHF912	FJF455
Filtered				-	-	-	-	-	-	-					-	-	-					
Sample Type	Units	ODWS	Ontario SCS	Field Blank	Field Blank	Field Blank	Field Blank	Field Blank	Field Blank	Field Blank	Field Blank	Field Blank	Field Blank	Field Blank	Trip Blank	Trip Blank	Trip Blank	Trip Blank	Trip Blank	Trip Blank	Trip Blank	Trip Blank
Volatile Organic Compounds																						
Acetone	µg/L	n/v	2,700[G] 2,700[H]	<10	-	-	<10	-	-	-	<10	<10	<10	<10	<10	-	<10	-	<10	<10	<10	<10
Bromodichloromethane	µg/L	n/v	16[G] 16[H]	<0.50	-	-	<0.50	-	-	-	<0.50	<0.50	<0.50	<0.50	<0.50	-	<0.50	-	<0.50	<0.50	<0.50	<0.50
Bromoform (Tribromomethane)	µg/L	n/v	5[G] 25[H]	<1.0	-	-	<1.0	-	-	-	<1.0	<1.0	<1.0	<1.0	<1.0	-	<1.0	-	<1.0	<1.0	<1.0	<1.0
Bromomethane (Methyl bromide)	µg/L	n/v	0.89[G] 0.89[H]	<0.50	-	-	<0.50	-	-	-	<0.50	<0.50	<0.50	<0.50	<0.50	-	<0.50	-	<0.50	<0.50	<0.50	<0.50
Carbon Tetrachloride (Tetrachloromethane)	µg/L	2[C]	0.2[G] 0.79[H]	<0.20	-	-	<0.20	-	-	-	<0.20	<0.20	<0.20	<0.20	<0.20	-	<0.20	-	<0.20	<0.20	<0.20	<0.20
Chlorobenzene (Monochlorobenzene)	µg/L	80[C] 30[D]	30[G] 30[H]	<0.20	-	-	<0.20	-	-	-	<0.20	<0.20	<0.20	<0.20	<0.20	-	<0.20	-	<0.20	<0.20	<0.20	<0.20
Chloroform (Trichloromethane)	µg/L	n/v	2[G] 2.4[H]	<0.20	-	-	<0.20	-	-	-	<0.20	<0.20	<0.20	<0.20	<0.20	-	<0.20	-	<0.20	<0.20	<0.20	<0.20
Dibromochloromethane	µg/L	n/v	25[G] 25[H]	<0.50	-	-	<0.50	-	-	-	<0.50	<0.50	<0.50	<0.50	<0.50	-	<0.50	-	<0.50	<0.50	<0.50	<0.50
Dichlorobenzene, 1,2-	µg/L	200[C] 3[D]	3[G] 3[H]	<0.50	-	-	<0.50	-	-	-	<0.50	<0.50	<0.50	<0.50	<0.50	-	<0.50	-	<0.50	<0.50	<0.50	<0.50
Dichlorobenzene, 1,3-	µg/L	n/v	59[G] 59[H]	<0.50	-	-	<0.50	-	-	-	<0.50	<0.50	<0.50	<0.50	<0.50	-	<0.50	-	<0.50	<0.50	<0.50	<0.50
Dichlorobenzene, 1,4-	µg/L	5[C] 1[D]	0.5[G] 1[H]	<0.50	-	-	<0.50	-	-	-	<0.50	<0.50	<0.50	<0.50	<0.50	-	<0.50	-	<0.50	<0.50	<0.50	<0.50
Dichlorodifluoromethane (Freon 12)	µg/L	n/v	590[G] 590[H]	<1.0	-	-	<1.0	-	-	-	<1.0	<1.0	<1.0	<1.0	<1.0	-	<1.0	-	<1.0	<1.0	<1.0	<1.0
Dichloroethane, 1,1-	µg/L	n/v	5[G] 5[H]	<0.20	-	-	<0.20	-	-	-	<0.20	<0.20	<0.20	<0.20	<0.20	-	<0.20	-	<0.20	<0.20	<0.20	<0.20
Dichloroethane, 1,2-	µg/L	5[B]	0.5[G] 1.6[H]	<0.50	-	-	<0.50	-	-	-	<0.50	<0.50	<0.50	<0.50	<0.50	-	<0.50	-	<0.50	<0.50	<0.50	<0.50
Dichloroethene, 1,1-	µg/L	14[C]	0.5[G] 1.6[H]	<0.20	-	-	<0.20	-	-	-	<0.20	<0.20	<0.20	<0.20	<0.20	-	<0.20	-	<0.20	<0.20	<0.20	<0.20
Dichloroethene, cis-1,2-	µg/L	n/v	1.6[G] 1.6[H]	<0.50	-	-	<0.50	-	-	-	<0.50	<0.50	<0.50	<0.50	<0.50	-	<0.50	-	<0.50	<0.50	<0.50	<0.50
Dichloroethene, trans-1,2-	µg/L	n/v	1.6[G] 1.6[H]	<0.50	-	-	<0.50	-	-	-	<0.50	<0.50	<0.50	<0.50	<0.50	-	<0.50	-	<0.50	<0.50	<0.50	<0.50
Dichloropropane, 1,2-	µg/L	n/v	0.58[G] 5[H]	<0.20	-	-	<0.20	-	-	-	<0.20	<0.20	<0.20	<0.20	<0.20	-	<0.20	-	<0.20	<0.20	<0.20	<0.20
Dichloropropene, 1,3- (sum of isomers cis + trans)	µg/L	n/v	0.5[511][GH]	<0.50	-	-	<0.50	-	-	-	<0.50	<0.50	<0.50	<0.50	<0.50	-	<0.50	-	<0.50	<0.50	<0.50	<0.50
Dichloropropene, cis-1,3-	µg/L	n/v	[511][GH]	<0.30	-	-	<0.30	-	-	-	<0.30	<0.30	<0.30	<0.30	<0.30	-	<0.30	-	<0.30	<0.30	<0.30	<0.30
Dichloropropene, trans-1,3-	µg/L	n/v	[511][GH]	<0.40	-	-	<0.40	-	-	-	<0.40	<0.40	<0.40	<0.40	<0.40	-	<0.40	-	<0.40	<0.40	<0.40	<0.40
Ethylene Dibromide (Dibromoethane, 1,2-)	µg/L	n/v	0.2[G] 0.2[H]	<0.20	-	-	<0.20	-	-	-	<0.20	<0.20	<0.20	<0.20	<0.20	-	<0.20	-	<0.20	<0.20	<0.20	<0.20
Hexane (n-Hexane)	µg/L	n/v	5[G] 51[H]	<1.0	-	-	<1.0	-	-	-	<1.0	<1.0	<1.0	<1.0	<1.0	-	<1.0	-	<1.0	<1.0	<1.0	<1.0
Methyl Ethyl Ketone (MEK) (2-Butanone)	µg/L	n/v	1,800[G] 1,800[H]	<10	-	-	<10	-	-	-	<10	<10	<10	<10	<10	-	<10	-	<10	<10	<10	<10
Methyl Isobutyl Ketone (MIBK)	µg/L	n/v	640[G] 640[H]	<5.0	-	-	<5.0	-	-	-	<5.0	<5.0	<5.0	<5.0	<5.0	-	<5.0	-	<5.0	<5.0	<5.0	<5.0
Methyl tert-butyl ether (MTBE)	µg/L	n/v	15[G] 15[H]	<0.50	-	-	<0.50	-	-	-	<0.50	<0.50	<0.50	<0.50	<0.50	-	<0.50	-	<0.50	<0.50	<0.50	<0.50
Methylene Chloride (Dichloromethane)	µg/L	50[C]	26[G] 50[H]	<2.0	-	-	<2.0	-	-	-	<2.0	<2.0	<2.0	<2.0	<2.0	-	<2.0	-	<2.0	<2.0	<2.0	<2.0
Styrene	µg/L	n/v	5.4[G] 5.4[H]	<0.50	-	-	<0.50	-	-	-	<0.50	<0.50	<0.50	<0.50	<0.50	-	<0.50	-	<0.50	<0.50	<0.50	<0.50
Tetrachloroethane, 1,1,1,2-	µg/L	n/v	1.1[G] 1.1[H]	<0.50	-	-	<0.50	-	-	-	<0.50	<0.50	<0.50	<0.50	<0.50	-	<0.50	-	<0.50	<0.50	<0.50	<0.50
Tetrachloroethane, 1,1,2,2-	µg/L	n/v	0.5[G] 1[H]	<0.50	-	-	<0.50	-	-	-	<0.50	<0.50	<0.50	<0.50	<0.50	-	<0.50	-	<0.50	<0.50	<0.50	<0.50
Tetrachloroethene (PCE)	µg/L	30[C]	0.5[G] 1.6[H]	<0.20	-	-	<0.20	-	-	-	<0.20	<0.20	<0.20	<0.20	<0.20	-	<0.20	-	<0.20	<0.20	<0.20	<0.20
Trichloroethane, 1,1,1-	µg/L	n/v	23[G] 200[H]	<0.20	-	-	<0.20	-	-	-	<0.20	<0.20	<0.20	<0.20	<0.20	-	<0.20	-	<0.20	<0.20	<0.20	<0.20
Trichloroethane, 1,1,2-	µg/L	n/v	0.5[G] 4.7[H]	<0.50	-	-	<0.50	-	-	-	<0.50	<0.50	<0.50	<0.50	<0.50	-	<0.50	-	<0.50	<0.50	<0.50	<0.50
Trichloroethene (TCE)	µg/L	5[C]	0.5[G] 1.6[H]	<0.20	-	-	<0.20	-	-	-	<0.20	<0.20	<0.20	<0.20	<0.20	-	<0.20	-	<0.20	<0.20	<0.20	<0.20
Trichlorofluoromethane (Freon 11)	µg/L	n/v	150[G] 150[H]	<0.50	-	-	<0.50	-	-	-	<0.50	<0.50	<0.50	<0.50	<0.50	-	<0.50	-	<0.50	<0.50	<0.50	<0.50
Trihalomethanes	µg/L	100[e][C]	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vinyl Chloride	µg/L	1[C]	0.5[G] 0.5[H]	<0.20	-	-	<0.20	-	-	-	<0.20	<0.20	<0.20	<0.20	<0.20	-	<0.20	-	<0.20	<0.20	<0.20	<0.20

See notes on last page

Table 7
Summary of Groundwater Analytical Results - Monitoring Wells
Clarington Transformer Station
Hydro One Networks Inc.

Notes:

ODWS	Technical Support Document for Ontario Drinking Water Standards, Objectives and Guidelines (MOE, 2006, revised January 2017)
A	ODWS Table 1 - Microbiological Standards, Maximum Acceptable Concentration
B	ODWS Table 2 - Chemical Standards, Interim Maximum Acceptable Concentration
C	ODWS Table 2 - Chemical Standards, Maximum Acceptable Concentration
D	ODWS Table 4 - Chemical/Physical Objectives and Guidelines, Aesthetic Objectives
E	ODWS Table 4 - Chemical/Physical Objectives and Guidelines, Operational Guidelines
F	ODWS Table 4 - Medical Officer of Health Reporting Limit
Ontario SCS	Soil, Ground Water and Sediment Standards for Use under Part XV.I of the Environmental Protection Act (MOE, 2011)
G	Table 6 - All Types of Property Use - Coarse Textured Soils
H	Table 8 - All Types of Property Use
6.5^{A}	Concentration exceeds the indicated standard.
15.2	Measured concentration did not exceed the indicated standard.
<0.50	Laboratory reporting limit was greater than the applicable standard.
<0.03	Analyte was not detected at a concentration greater than the laboratory reporting limit.
n/v	No standard/guideline value.
-	Parameter not analyzed / not available.
b	Where fluoride is added to drinking water, it is recommended that the concentration be adjusted to 0.5 - 0.8 mg/L the optimum level for control of tooth decay. Where supplies contain naturally occurring fluoride at levels higher than 1.5 mg/L but lower than 2.4 mg/L the Ministry of Health and Long Term Care recommends an approach through local boards of health to raise public and professional awareness to control excessive exposure to fluoride from other sources.
c	This standard applies to water at the point of consumption. Since lead is a component in some plumbing systems, first flush water may contain higher concentrations of lead than water that has been flushed for five minutes.
d	Where both nitrate and nitrite are present, the total of the two should not exceed 10 mg/L (as nitrogen).
e	The standard is expressed as a running annual average of quarterly samples measured at a point reflecting the maximum residence time in the distribution system.
f	Refer to ODWS Table 2 for health related standard
g^{DF}	The aesthetic objective for sodium in drinking water is 200 mg/L. The local Medical Officer of Health should be notified when the sodium concentration exceeds 20 mg/L so that this information may be communicated to local physicians for their use with patients on sodium restricted diets.
h	When sulfate levels exceed 500 mg/L, water may have a laxative effect on some people.
i	Applicable for all waters at the point of consumption.
j	The operational guidelines for filtration processes are provided as performance criteria in the Procedure for Disinfection of Drinking Water in Ontario.
n/a^{GH}	Not applicable.
s1^{DGH}	Standard is applicable to total xylenes, and m & p-xylenes and o-xylenes should be summed for comparison.
s2^{GH}	Standard is for benzo(b)fluoranthene; however, the analytical laboratory can not distinguish between benzo(b)fluoranthene and benzo(j)fluoranthene, and therefore, the result is a combination of the two isomers, against which the standard has been compared.
s3^{GH}	Standard is applicable to both 1-methylnaphthalene and 2-methylnaphthalene, with the provision that if both are detected the sum of the two must not exceed the standard.
s7^{GH}	Standard is applicable to PHC in the F1 range minus BTEX.
s8^{GH}	Standard is applicable to PHC in the F3 range, minus PAHs (other than naphthalene). If PAHs were not analyzed, the standard is applied to F3.
s10^{GH}	If baseline is not reached during F4 analysis, then gravimetric analysis is to be performed, and the standard is applied to the higher of the two results.
s11^{GH}	Standard is applicable to 1,3-Dichloropropene, and the individual isomers (cis + trans) should be added for comparison.
s13^{GH}	The criterion is applicable to the total sum of 2,4 & 2,6-Dinitrotoluene, and the individual isomers (2,4 & 2,6) should be added for comparison.
s14^{GH}	Standard is applicable to total PCBs, and the individual Aroclors should be added for comparison.
s15^{GH}	Standard is applicable to PHC in the F2 range minus naphthalene. If naphthalene was not analyzed, the standard is applied to F2.
DB	Due to the sample matrix, sample required dilution. Detection limit was adjusted accordingly.
IB	The detection limit was raised due to instrument background.
MI	Detection limit was raised due to matrix interferences.

Table 8
Summary of Groundwater Analytical Results - Private Wells
Clarington Tranformer Station
Hydro One Networks Inc.

Aquifer Unit			Shallow Overburden									
Sample Date			31-Jul-14	8-Oct-14	12-Nov-14	12-Nov-14	15-Apr-15	5-Oct-15	18-Apr-16	1-Nov-16	24-Apr-17	18-Oct-17
Sample ID			WG-160900764-20140731-JK1	WG-160900764-20141008-AD15	WG-160900764-20141112-AD09	WG-160900764-20141112-AD09 FILTERED	WG-160900764-20150415-JK1	WG-160900764-20151005-JK7	WG-160900764-20160418-JK22	WG-160900764-20161101-JK7	WG-160900764-20170424-JK8	WG-160900764-20171018-JK21
Water Type			Raw	Raw	Raw	Raw	Raw	Raw	Raw	Raw	Raw	Raw
Sample Tap			Outside (Back house)	Outside (Back house)	Outside (Back house)	Outside (Back house)	Outside (Back house)	Outside (Back house)	Outside (Back house)	Outside (Back house)	Outside (Back house)	Outside (Back House)
Treatment Type			None	None	None	None	None	None	None	None	None	None
Sampling Company			STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC
Laboratory			MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX
Laboratory Work Order			B4D8040	B4I8196	B4L3740	B4L3740	B567144	B5K2703	B676726	B6N7539	B781996	B7N2030
Laboratory Sample ID			WY7355	XX8286	YK9092	YK9156	ACQ219	BCM872	CFC036	DJI433	EGP450	FJE418
Filtered	Units	ODWS	Lab Filtered Metals	Total Metals	Total Metals	Lab Filtered SVOC	Total Metals	Total Metals	Total Metals	Total Metals	Total Metals	Total Metals
General Chemistry												
Acidity	mg/L	n/v	21	12	29	-	25	40	28	38	48	27
Alkalinity, Bicarbonate (as CaCO3)	mg/L	n/v	300	300	290	-	310	300	300	330	310	310
Alkalinity, Carbonate (as CaCO3)	mg/L	n/v	2.5	1.9	2.6	-	1.2	1.1	2.4	2.1	2.0	2.3
Alkalinity, Total (as CaCO3)	mg/L	30-500[E]	300	300	290	-	310	300	310	330	310	320
Ammonia (as N)	mg/L	n/v	<0.050	<0.050	<0.050	-	<0.05	<0.050	<0.050	<0.050	<0.050	<0.050
Anion Sum	me/L	n/v	6.78	6.85	6.86	-	7.15	7.16	7.17	7.82	7.12	7.22
Cation Sum	me/L	n/v	6.97	6.64	7.11	-	6.72	7.30	7.30	7.47	7.03	6.95
Chloride	mg/L	250[D]	11	10	13	-	11	14	14	20	12	11
Cyanide (Free)	µg/L	200[B]	<2	<2	<20 MI	-	<2	<2	<2	<1	<1	<1
Dissolved Organic Carbon (DOC)	mg/L	5[D]	0.95	1.0	0.94	-	0.78	0.98	1.0	1.4	0.89	0.95
Electrical Conductivity, Lab	µmhos/cm	n/v	630	610	640	-	640	660	680	720	670	650
Fluoride	mg/L	1.5$_b$[B]	<0.10	<0.10	<0.10	-	<0.1	<0.10	<0.10	<0.10	<0.10	<0.10
Hardness (as CaCO3)	mg/L	80-100[E]	**330[E]**	**320[E]**	**340[E]**	-	**320[E]**	**350[E]**	**350[E]**	**350[E]**	**340[E]**	**330[E]**
Ion Balance	%	n/v	1.40	1.57	1.75	-	3.15	0.980	0.930	2.33	0.680	1.93
Langelier Index (at 20 C)	none	n/v	1.06	0.930	1.08	-	0.734	0.698	1.05	0.983	0.958	1.02
Langelier Index (at 4 C)	none	n/v	0.813	0.681	0.828	-	0.485	0.450	0.801	0.734	0.710	0.774
Nitrate (as N)	mg/L	10.0$_d$[B]	3.16	3.44	3.85	-	3.23	4.29	3.59	4.40	3.59	4.00
Nitrate + Nitrite (as N)	mg/L	10.0$_d$[B]	3.16	3.44	3.85	-	3.23	4.29	3.59	2.49	3.59	4
Nitrite (as N)	mg/L	1.0$_d$[B]	<0.010	<0.010	<0.010	-	<0.01	<0.010	<0.010	<0.010	<0.010	<0.010
Orthophosphate(as P)	mg/L	n/v	<0.010	<0.010	<0.010	-	<0.01	<0.010	<0.010	0.010	<0.010	<0.010
pH	S.U.	6.5-8.5[E]	7.95	7.83	7.97	-	7.62	7.57	7.92	7.83	7.84	7.89
Saturation pH (at 20 C)	none	n/v	6.89	6.90	6.89	-	6.89	6.88	6.87	6.84	6.88	6.87
Saturation pH (at 4 C)	none	n/v	7.14	7.15	7.14	-	7.13	7.12	7.12	7.09	7.13	7.12
Sulfate	mg/L	500$_n$[D]	14	15	16	-	17	19	18	19	16	15
Total Dissolved Solids	mg/L	500[D]	356	318	356	-	346	386	374	390	372	355
Total Organic Carbon	mg/L	n/v	0.95	0.94	1.2	-	0.87	0.98	0.97	1.4	0.77	0.99
Total Suspended Solids	mg/L	n/v	<10	<10	<10	-	<10	<10	<10	<10	<10	<10
Turbidity, Lab	NTU	5$_{ij}$[D, E]	<0.2	<0.2	0.3	-	<0.2	<0.2	0.4	<0.1	<0.1	<0.1
Metals												
Aluminum	µg/L	100[E]	<5.0	6.5	7.6	-	5.4	<5.0	5.7	<5	<5.0	<5
Antimony	µg/L	6[C]	<0.50	<0.50	<0.50	-	<0.5	<0.5	<0.5	<0.5	<0.50	<0.5
Arsenic	µg/L	25[C]	<1.0	<1.0	<1.0	-	<1	<1	<1	<1	<1.0	<1
Barium	µg/L	1,000[B]	39	39	42	-	40	44	42	44	42	43
Beryllium	µg/L	n/v	<0.50	<0.50	<0.50	-	<0.5	<0.5	<0.5	<0.5	<0.50	<0.5
Boron	µg/L	5,000[C]	10	11	11	-	<10	11	14	19	<10	10
Cadmium	µg/L	5[B]	0.14	<0.10	<0.10	-	<0.1	<0.1	<0.1	<0.1	<0.10	<0.1
Calcium	µg/L	n/v	120,000	110,000	120,000	-	110,000	120,000	120,000	120,000	120,000	120,000
Chromium	µg/L	50[B]	<5.0	<5.0	<5.0	-	<5	<5.0	<5	<5	<5.0	<5
Chromium (Hexavalent)	µg/L	n/v	<0.50	<0.50	<0.50	-	<0.5	0.50	<0.50	<0.50	0.51	<0.50
Cobalt	µg/L	n/v	<0.50	<0.50	<0.50	-	<0.5	<0.5	<0.5	<0.5	<0.50	<0.5
Copper	µg/L	1,000[D]	20	9.6	17	-	5.1	9.5	3.6	11	6.7	7.2
Iron	µg/L	300[D]	<100	<100	<100	-	<100	<100	<100	<100	<100	<100
Lead	µg/L	10$_c$[B]	<0.50	0.54	<0.50	-	<0.5	<0.5	<0.5	<0.5	<0.50	<0.5
Magnesium	µg/L	n/v	9,600	10,000	11,000	-	10,000	11,000	11,000	11,000	11,000	10,000
Manganese	µg/L	50[D]	<2.0	<2.0	<2.0	-	<2	<2	<2	<2	<2.0	<2
Mercury	µg/L	1[B]	<0.10	<0.10	<0.1	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Molybdenum	µg/L	n/v	<0.50	<0.50	<0.50	-	<0.5	<0.5	<0.5	<0.5	<0.50	<0.5
Nickel	µg/L	n/v	<1.0	<1.0	<1.0	-	<1	<1	<1	1	<1.0	<1
Phosphorus	µg/L	n/v	<100	<100	<100	-	<100	<100	<100	<100	<100	<100
Potassium	µg/L	n/v	1,000	970	880	-	780	1,000	840	1,200	930	1,000
Selenium	µg/L	50[B]	<2.0	<2.0	<2.0	-	<2	<2	<2	<2	<2.0	<2
Silicon	µg/L	n/v	6,300	5,700	5,900	-	5,200	6,100	6,200	5,700	5,600	5,900
Silver	µg/L	n/v	<0.10	<0.10	<0.10	-	<0.1	<0.1	<0.1	<0.1	<0.10	<0.1
Sodium	µg/L	200,000$_g$[D] 20,000$_g$[F]	6,300	5,800	7,400	-	5,700	7,200	7,200	12,000	6,100	6,600
Strontium	µg/L	n/v	200	200	210	-	200	220	210	220	200	210
Thallium	µg/L	n/v	0.055	<0.050	<0.050	-	<0.05	<0.05	<0.05	<0.05	<0.050	<0.05
Titanium	µg/L	n/v	<5.0	<5.0	<5.0	-	<5	<5.0	<5	<5	<5.0	<5
Uranium	µg/L	20[B]	0.76	0.51	0.54	-	0.55	0.56	0.63	0.63	0.61	0.58
Vanadium	µg/L	n/v	<0.50	<0.50	<0.50	-	<0.5	<0.5	<0.5	<0.5	<0.50	<0.5
Zinc	µg/L	5,000[D]	9.8	12	<5.0	-	<5	<5.0	<5	<5	<5.0	<5
Zirconium	µg/L	n/v	<1.0	<1.0	<1.0	-	<1	<1	-	<1	<1.0	<1
Microbiological Analysis												
Escherichia coli (E.Coli)	cfu/100mL	0[A]	-	0	0	-	0	0	0	0	0	0
Total Coliform Background	cfu/100mL	n/v	-	930	0	-	69	500	13	0	39	9
Total Coliforms	cfu/100mL	0[A]	-	**16[A]**	0	-	**9[A]**	**9[A]**	**8[A]**	0	0	0
BTEX and Petroleum Hydrocarbons												
Benzene	µg/L	1[B]	<0.20	<0.20	<0.20	-	<0.2	<0.20	<0.20	<0.20	<0.20	<0.20
Toluene	µg/L	60[B] 24[D]	<0.20	<0.20	<0.20	-	<0.2	<0.20	<0.20	<0.20	<0.20	<0.20
Ethylbenzene	µg/L	140[B] 1.6[D]	<0.20	<0.20	<0.20	-	<0.2	<0.20	<0.20	<0.20	<0.20	<0.20
Xylene, m & p-	µg/L	300$_{s1}$[D]	<0.20	<0.20	<0.20	-	<0.2	<0.20	<0.20	<0.40	<0.20	<0.20
Xylene, o-	µg/L	300$_{s1}$[D]	<0.20	<0.20	<0.20	-	<0.2	<0.20	<0.20	<0.20	<0.20	<0.20
Xylenes, Total	µg/L	90[B] 20[D]	<0.20	<0.20	<0.20	-	<0.2	<0.20	<0.20	<0.40	<0.20	<0.20
PHC F1 (C6-C10 range)	µg/L	n/v	<25	<25	<25	-	<25	<25	<25	<25	<25	<25
PHC F1 (C6-C10 range) minus BTEX	µg/L	n/v	<25	<25	<25	-	<25	<25	<25	<25	<25	<25
PHC F2 (>C10-C16 range)	µg/L	n/v	<100	<100	<100	-	<100	<100	<100	<100	<100	<100
PHC F3 (>C16-C34 range)	µg/L	n/v	<200	<200	<200	-	<200	<200	<200	<200	<200	<200
PHC F4 (>C34-C50 range)	µg/L	n/v	<200	<200	<200	-	<200	<200	<200	<200	<200	<200
Chromatogram to baseline at C50	none	n/v	YES	YES	YES	-	YES	YES	YES	YES	YES	YES
Polychlorinated Biphenyls												
Aroclor 1242	µg/L	n/v	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Aroclor 1248	µg/L	n/v	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Aroclor 1254	µg/L	n/v	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Aroclor 1260	µg/L	n/v	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Polychlorinated Biphenyls (PCBs)	µg/L	3[C]	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05

See notes on last page

Table 8
Summary of Groundwater Analytical Results - Private Wells
Clarington Tranformer Station
Hydro One Networks Inc.

Aquifer Unit			Shallow Overburden									
Sample Date			31-Jul-14	8-Oct-14	12-Nov-14	12-Nov-14	15-Apr-15	5-Oct-15	18-Apr-16	1-Nov-16	24-Apr-17	18-Oct-17
Sample ID			WG-160900764-20140731-JK1	WG-160900764-20141008-AD15	WG-160900764-20141112-AD09	WG-160900764-20141112-AD09 FILTERED	WG-160900764-20150415-JK1	WG-160900764-20151005-JK7	WG-160900764-20160418-JK22	WG-160900764-20161101-JK7	WG-160900764-20170424-JK8	WG-160900764-20171018-JK21
Water Type			Raw	Raw	Raw	Raw	Raw	Raw	Raw	Raw	Raw	Raw
Sample Tap			Outside (Back house)	Outside (Back house)	Outside (Back house)	Outside (Back house)	Outside (Back house)	Outside (Back house)	Outside (Back house)	Outside (Back house)	Outside (Back house)	Outside (Back House)
Treatment Type			None	None	None	None	None	None	None	None	None	None
Sampling Company			STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC
Laboratory			MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX
Laboratory Work Order			B4D8040	B4I8196	B4L3740	B4L3740	B567144	B5K2703	B676726	B6N7539	B781996	B7N2030
Laboratory Sample ID			WY7355	XX8286	YK9092	YK9156	ACQ219	BCM872	CFC036	DJI433	EGP450	FJE418
Filtered	Units	ODWS	Lab Filtered Metals	Total Metals	Total Metals	Lab Filtered SVOC	Total Metals	Total Metals	Total Metals	Total Metals	Total Metals	Total Metals
Semi-Volatile Organic Compounds												
Acenaphthene	µg/L	n/v	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Acenaphthylene	µg/L	n/v	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Anthracene	µg/L	n/v	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(a)anthracene	µg/L	n/v	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(a)pyrene	µg/L	0.01[B]	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Benzo(b/j)fluoranthene	µg/L	n/v	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(g,h,i)perylene	µg/L	n/v	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(k)fluoranthene	µg/L	n/v	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Biphenyl, 1,1'- (Biphenyl)	µg/L	n/v	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Bis(2-Chloroethyl)ether	µg/L	n/v	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Bis(2-Chloroisopropyl)ether	µg/L	n/v	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Bis(2-Ethylhexyl)phthalate (DEHP)	µg/L	n/v	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroaniline, 4-	µg/L	n/v	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chlorophenol, 2- (ortho-Chlorophenol)	µg/L	n/v	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Chrysene	µg/L	n/v	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Dibenzo(a,h)anthracene	µg/L	n/v	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dichlorobenzidine, 3,3'-	µg/L	n/v	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Dichlorophenol, 2,4-	µg/L	900[B] 0.3$_f$[D]	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Diethyl Phthalate	µg/L	n/v	<0.1	<0.1	0.3	0.3	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dimethyl Phthalate	µg/L	n/v	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dimethylphenol, 2,4-	µg/L	n/v	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Dinitrophenol, 2,4-	µg/L	n/v	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Dinitrotoluene, 2,4-	µg/L	n/v	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Dinitrotoluene, 2,6-	µg/L	n/v	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Fluoranthene	µg/L	n/v	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Fluorene	µg/L	n/v	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Indeno(1,2,3-cd)pyrene	µg/L	n/v	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Methylnaphthalene (Total)	µg/L	n/v	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28
Methylnaphthalene, 1-	µg/L	n/v	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Methylnaphthalene, 2-	µg/L	n/v	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Naphthalene	µg/L	n/v	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Pentachlorophenol	µg/L	60[B] 30$_f$[D]	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	µg/L	n/v	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Phenol	µg/L	n/v	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Pyrene	µg/L	n/v	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Trichlorobenzene, 1,2,4-	µg/L	n/v	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Trichlorophenol, 2,4,5-	µg/L	n/v	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Trichlorophenol, 2,4,6-	µg/L	5[B] 2$_f$[D]	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Volatile Organic Compounds												
Acetone	µg/L	n/v	<10	<10	<10	-	<10	<10	<10	<10	<10	<10
Bromodichloromethane	µg/L	n/v	<0.50	<0.50	2.5	-	<0.5	<0.50	<0.50	5.3	<0.50	<0.50
Bromoform (Tribromomethane)	µg/L	n/v	<1.0	<1.0	<1.0	-	<1	<1.0	<1.0	<1.0	<1.0	<1.0
Bromomethane (Methyl bromide)	µg/L	n/v	<0.50	<0.50	<0.50	-	<0.5	<0.50	<0.50	<0.50	<0.50	<0.50
Carbon Tetrachloride (Tetrachloromethane)	µg/L	2[B]	<0.20	<0.20	<0.20	-	<0.2	<0.20	<0.20	<0.20	<0.20	<0.20
Chlorobenzene (Monochlorobenzene)	µg/L	80[B] 30$_f$[D]	<0.20	<0.20	<0.20	-	<0.2	<0.20	<0.20	<0.20	<0.20	<0.20
Chloroform (Trichloromethane)	µg/L	n/v	<0.20	2.4	6.4	-	0.28	0.30	<0.20	15	<0.20	0.91
Dibromochloromethane	µg/L	n/v	<0.50	<0.50	1.1	-	<0.5	<0.50	<0.50	2.5	<0.50	<0.50
Dichlorobenzene, 1,2-	µg/L	200[B] 3$_f$[D]	<0.50	<0.50	<0.50	-	<0.5	<0.50	<0.50	<0.50	<0.50	<0.50
Dichlorobenzene, 1,3-	µg/L	n/v	<0.50	<0.50	<0.50	-	<0.5	<0.50	<0.50	<0.50	<0.50	<0.50
Dichlorobenzene, 1,4-	µg/L	5[B] 1$_f$[D]	<0.50	<0.50	<0.50	-	<0.5	<0.50	<0.50	<0.50	<0.50	<0.50
Dichlorodifluoromethane (Freon 12)	µg/L	n/v	<1.0	<1.0	<1.0	-	<1	<1.0	<1.0	<1.0	<1.0	<1.0
Dichloroethane, 1,1-	µg/L	n/v	<0.20	<0.20	<0.20	-	<0.2	<0.20	<0.20	<0.20	<0.20	<0.20
Dichloroethane, 1,2-	µg/L	5[C]	<0.50	<0.50	<0.50	-	<0.5	<0.50	<0.50	<0.50	<0.50	<0.50
Dichloroethene, 1,1-	µg/L	14[B]	<0.20	<0.20	<0.20	-	<0.2	<0.20	<0.20	<0.20	<0.20	<0.20
Dichloroethene, cis-1,2-	µg/L	n/v	<0.50	<0.50	<0.50	-	<0.5	<0.50	<0.50	<0.50	<0.50	<0.50
Dichloroethene, trans-1,2-	µg/L	n/v	<0.50	<0.50	<0.50	-	<0.5	<0.50	<0.50	<0.50	<0.50	<0.50
Dichloropropane, 1,2-	µg/L	n/v	<0.20	<0.20	<0.20	-	<0.2	<0.20	<0.20	<0.20	<0.20	<0.20
Dichloropropene, 1,3- (sum of isomers cis + trans)	µg/L	n/v	<0.50	<0.50	<0.50	-	<0.5	<0.50	<0.50	<0.50	<0.50	<0.50
Dichloropropene, cis-1,3-	µg/L	n/v	<0.30	<0.30	<0.30	-	<0.3	<0.30	<0.30	<0.30	<0.30	<0.30
Dichloropropene, trans-1,3-	µg/L	n/v	<0.40	<0.40	<0.40	-	<0.4	<0.40	<0.40	<0.40	<0.40	<0.40
Ethylene Dibromide (Dibromoethane, 1,2-)	µg/L	n/v	<0.20	<0.20	<0.20	-	<0.2	<0.20	<0.20	<0.20	<0.20	<0.20
Hexane (n-Hexane)	µg/L	n/v	<1.0	<1.0	<1.0	-	<1	<1.0	<1.0	<1.0	<1.0	<1.0
Methyl Ethyl Ketone (MEK) (2-Butanone)	µg/L	n/v	<10	<10	<10	-	<10	<10	<10	<10	<10	<10
Methyl Isobutyl Ketone (MIBK)	µg/L	n/v	<5.0	<5.0	<5.0	-	<5	<5.0	<5.0	<5.0	<5.0	<5.0
Methyl tert-butyl ether (MTBE)	µg/L	15[D]	<0.50	<0.50	<0.50	-	<0.5	<0.50	<0.50	<0.50	<0.50	<0.50
Methylene Chloride (Dichloromethane)	µg/L	50[B]	<2.0	<2.0	<2.0	-	<2	<2.0	<2.0	<2.0	<2.0	<2.0
Styrene	µg/L	n/v	<0.50	<0.50	<0.50	-	<0.5	<0.50	<0.50	<0.50	<0.50	<0.50
Tetrachloroethane, 1,1,1,2-	µg/L	n/v	<0.50	<0.50	<0.50	-	<0.5	<0.50	<0.50	<0.50	<0.50	<0.50
Tetrachloroethane, 1,1,2,2-	µg/L	n/v	<0.50	<0.50	<0.50	-	<0.5	<0.50	<0.50	<0.50	<0.50	<0.50
Tetrachloroethene (PCE)	µg/L	10[B]	<0.20	<0.20	<0.20	-	<0.2	<0.20	<0.20	<0.20	<0.20	<0.20
Trichloroethane, 1,1,1-	µg/L	n/v	<0.20	<0.20	<0.20	-	<0.2	<0.20	<0.20	<0.20	<0.20	<0.20
Trichloroethane, 1,1,2-	µg/L	n/v	<0.50	<0.50	<0.50	-	<0.5	<0.50	<0.50	<0.50	<0.50	<0.50
Trichloroethene (TCE)	µg/L	5[B]	<0.20	<0.20	<0.20	-	<0.2	<0.20	<0.20	<0.20	<0.20	<0.20
Trichlorofluoromethane (Freon 11)	µg/L	n/v	<0.50	<0.50	<0.50	-	<0.5	<0.50	<0.50	<0.50	<0.50	<0.50
Trihalomethanes	µg/L	100$_e$[B]	<0.20	2.4	10	-	<1	<0.50	<1.0	22.8	<0.20	0.91
Vinyl Chloride	µg/L	1[B]	<0.20	<0.20	<0.20	-	<0.2	<0.20	<0.20	<0.20	<0.20	<0.20

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Table 8
Summary of Groundwater Analytical Results - Private Wells
Clarington Tranformer Station
Hydro One Networks Inc.

Aquifer Unit			Shallow Overburden								
Sample Date			31-Jul-14	6-Oct-14	15-Apr-15	8-Oct-15	29-Oct-15	13-Apr-16	3-Nov-16	26-Apr-17	18-Oct-17
Sample ID			WG-160900764-20140731-JK3	WG-160900764-20141006-AD03	WG-160900764-20150415-JK8	WG-160900764-20151008-JK23	WG-160900764-20151029-JK3	WG-160900764-20160413-JK19	WG-160900764-20161103-JK20	WG-160900764-20170426-JK23	WG-160900764-20171018-JK22
Water Type			Raw	Raw	Raw	Raw	Raw	Raw	Raw	Raw	Raw
Sample Tap			Outside (Barn)	Outside (Barn)	Outside (Barn)	Outside (Barn)	Outside (Barn)	Outside (Barn)	Outside (Barn)	Outside (Barn)	Outside (Barn)
Treatment Type			None	None	None	None	None	None	None	None	None
Sampling Company			STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC
Laboratory			MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX
Laboratory Work Order			B4D8040	B4I6091	B567144	B5K5292	B5M1891	B674120	B6N8820	B782997	B7N2030
Laboratory Sample ID			WY7357	XW7257	ACQ226	BDB100	BGI096	CEO962	DJO311	EGU146	FJE419
Filtered	Units	ODWS	Lab Filtered Metals	Total Metals	Total Metals	Total Metals	Total Metals	Total Metals	Total Metals	Total Metals	Total Metals
General Chemistry											
Acidity	mg/L	n/v	32	42	23	51	-	44	44	46	19
Alkalinity, Bicarbonate (as CaCO3)	mg/L	n/v	310	320	330	330	-	330	350	340	330
Alkalinity, Carbonate (as CaCO3)	mg/L	n/v	2.1	1.6	2.0	1.1	-	2.1	2.2	1.9	2.4
Alkalinity, Total (as CaCO3)	mg/L	30-500[E]	310	320	330	330	-	330	350	340	340
Ammonia (as N)	mg/L	n/v	<0.050	<0.050	<0.05	<0.050	-	<0.050	<0.050	<0.050	<0.050
Anion Sum	me/L	n/v	8.07	8.34	8.52	9.60	-	9.37	10.3	9.17	8.77
Cation Sum	me/L	n/v	8.02	8.19	8.24	10.5	-	9.69	10.4	9.12	8.70
Chloride	mg/L	250[D]	38	45	47	79	-	64	95	63	44
Cyanide (Free)	µg/L	200[B]	<2	<2	<2	<2	-	<2	<1	<1	<1
Dissolved Organic Carbon (DOC)	mg/L	5[D]	1.0	1.2	1.1	1.3	-	2.2	1.2	1.2	1.4
Electrical Conductivity, Lab	µmhos/cm	n/v	790	810	810	900	-	890	990	890	810
Fluoride	mg/L	1.5_b[B]	<0.10	<0.10	<0.1	<0.10	-	<0.10	<0.10	<0.10	<0.10
Hardness (as CaCO3)	mg/L	80-100[E]	**350[E]**	**360[E]**	**360[E]**	**450[E]**	-	**400[E]**	**410[E]**	**390[E]**	**380[E]**
Ion Balance	%	n/v	0.270	0.910	1.69	4.56	-	1.67	0.650	0.290	0.430
Langelier Index (at 20 C)	none	n/v	0.982	0.855	0.965	0.804	-	1.02	1.05	0.954	1.09
Langelier Index (at 4 C)	none	n/v	0.733	0.607	0.717	0.557	-	0.772	0.800	0.706	0.837
Nitrate (as N)	mg/L	10.0_d[B]	5.31	3.61	2.44	2.77	-	3.99	2.56	2.92	3.53
Nitrate + Nitrite (as N)	mg/L	10.0_d[B]	5.31	3.61	2.44	2.77	-	3.99	2.56	2.92	3.53
Nitrite (as N)	mg/L	1.0_d[B]	<0.010	<0.010	<0.01	<0.010	-	<0.010	<0.010	<0.010	<0.010
Orthophosphate(as P)	mg/L	n/v	<0.010	<0.010	<0.01	<0.010	-	<0.010	<0.010	<0.010	<0.010
pH	S.U.	6.5-8.5[E]	7.86	7.72	7.81	7.56	-	7.83	7.83	7.77	7.89
Saturation pH (at 20 C)	none	n/v	6.88	6.86	6.84	6.76	-	6.81	6.79	6.82	6.80
Saturation pH (at 4 C)	none	n/v	7.12	7.11	7.09	7.00	-	7.05	7.03	7.06	7.05
Sulfate	mg/L	500_n[D]	20	22	21	23	-	30	20	21	27
Total Dissolved Solids	mg/L	500[D]	442	440	442	**526[D]**	-	**502[D]**	**552[D]**	**516[D]**	440
Total Organic Carbon	mg/L	n/v	1.1	1.2	1.2	1.5	-	1.7	1.4	1.1	1.5
Total Suspended Solids	mg/L	n/v	<10	<10	<10	<10	-	<10	<10	<10	<10
Turbidity, Lab	NTU	5_i[D,E]	<0.2	0.3	0.4	2.5	-	2.5	2.4	1.0	2.6
Metals											
Aluminum	µg/L	100[E]	<5.0	9.8	8.1	**120[E]**	-	16	**370[E]**	18	35
Antimony	µg/L	6[C]	<0.50	<0.50	<0.5	<0.5	-	<0.50	<0.5	<0.50	<0.5
Arsenic	µg/L	25[C]	<1.0	<1.0	<1	<1	-	<1.0	<1	<1.0	<1
Barium	µg/L	1,000[B]	47	55	46	64	-	56	68	52	52
Beryllium	µg/L	n/v	<0.50	<0.50	<0.5	<0.5	-	<0.50	<0.5	<0.50	<0.5
Boron	µg/L	5,000[C]	15	11	13	14	-	20	17	13	16
Cadmium	µg/L	5[B]	<0.10	<0.10	0.1	<0.1	-	<0.10	<0.1	<0.10	<0.1
Calcium	µg/L	n/v	120,000	120,000	120,000	160,000	-	140,000	140,000	130,000	130,000
Chromium	µg/L	50[B]	<5.0	<5.0	<5	<5.0	-	<5.0	<5	<5.0	<5
Chromium (Hexavalent)	µg/L	n/v	<0.50	<0.50	<0.5	<0.50	-	<0.50	<0.50	<0.50	<0.50
Cobalt	µg/L	n/v	<0.50	<0.50	<0.5	<0.5	-	<0.50	<0.5	<0.50	<0.5
Copper	µg/L	1,000[D]	4.2	3.0	<1	1	-	<1.0	2.3	<1.0	<1
Iron	µg/L	300[D]	<100	<100	<100	120	-	<100	**340[D]**	<100	<100
Lead	µg/L	10_c[B]	<0.50	<0.50	1.7	<0.5	-	<0.50	0.57	<0.50	<0.5
Magnesium	µg/L	n/v	10,000	12,000	12,000	15,000	-	13,000	13,000	13,000	12,000
Manganese	µg/L	50[D]	<2.0	6.0	3.3	27	-	<2.0	23	4.6	**59[D]**
Mercury	µg/L	1[B]	<0.10	<0.10	<0.1	<0.1	-	<0.10	<0.1	<0.1	<0.1
Molybdenum	µg/L	n/v	<0.50	<0.50	<0.5	<0.5	-	<0.50	<0.5	<0.50	<0.5
Nickel	µg/L	n/v	<1.0	<1.0	<1	<1	-	<1.0	<1	<1.0	<1
Phosphorus	µg/L	n/v	<100	<100	<100	<100	-	<100	<100	<100	<100
Potassium	µg/L	n/v	1,100	1,200	1,000	1,500	-	1,500	1,600	1,100	1,300
Selenium	µg/L	50[B]	<2.0	<2.0	<2	<2	-	<2.0	<2	<2.0	<2
Silicon	µg/L	n/v	6,300	6,300	4,800	6,800	-	5,800	6,400	5,300	5,900
Silver	µg/L	n/v	<0.10	<0.10	<0.1	<0.1	-	<0.10	<0.1	<0.10	<0.1
Sodium	µg/L	200,000$_g$[D] 20,000$_g$[F]	**23,000[F]**	**24,000[F]**	**23,000[F]**	**34,000[F]**	-	**38,000[F]**	**52,000[F]**	**31,000[F]**	**23,000[F]**
Strontium	µg/L	n/v	210	250	240	300	-	290	280	230	250
Thallium	µg/L	n/v	<0.050	<0.050	<0.05	<0.05	-	<0.05	<0.05	<0.050	<0.05
Titanium	µg/L	n/v	<5.0	<5.0	<5	7.5	-	<5.0	21	<5.0	<5
Uranium	µg/L	20[B]	1.0	1.1	0.93	1.2	-	0.98	1	0.98	0.99
Vanadium	µg/L	n/v	<0.50	<0.50	<0.5	<0.5	-	<0.50	0.82	<0.50	<0.5
Zinc	µg/L	5,000[D]	21	27	<5	<5.0	-	<5.0	9.9	<5.0	<5
Zirconium	µg/L	n/v	<1.0	<1.0	<1	<1	-	<1.0	1.5	<1.0	<1
Microbiological Analysis											
Escherichia coli (E.Coli)	cfu/100mL	0[A]	-	0	0	**NDOGT[A]**	**NDOGT[A]**	**3[A]**	**NDOGT[A]**	0	**1[A]**
Total Coliform Background	cfu/100mL	n/v	-	96	12	**NDOGT[A]**	**NDOGT[A]**	64	**NDOGT[A]**	38	670
Total Coliforms	cfu/100mL	0[A]	-	**6[A]**	**10[A]**	**NDOGT[A]**	**NDOGT[A]**	**12[A]**	**NDOGT[A]**	**1[A]**	**66[A]**
BTEX and Petroleum Hydrocarbons											
Benzene	µg/L	1[B]	<0.20	<0.20	<0.2	<0.20	-	<0.20	<0.20	<0.20	<0.20
Toluene	µg/L	60[B] 24[D]	<0.20	<0.20	<0.2	<0.20	-	<0.20	<0.20	<0.20	<0.20
Ethylbenzene	µg/L	140[B] 1.6[D]	<0.20	<0.20	<0.2	<0.20	-	<0.20	<0.20	<0.20	<0.20
Xylene, m & p-	µg/L	300_{s1}[D]	<0.20	<0.20	<0.2	<0.20	-	<0.20	<0.20	<0.20	<0.20
Xylene, o-	µg/L	300_{s1}[D]	<0.20	<0.20	<0.2	<0.20	-	<0.20	<0.20	<0.20	<0.20
Xylenes, Total	µg/L	90[B] 20[D]	<0.20	<0.20	<0.2	<0.20	-	<0.20	<0.20	<0.20	<0.20
PHC F1 (C6-C10 range)	µg/L	n/v	<25	<25	<25	<25	-	<25	<25	<25	<25
PHC F1 (C6-C10 range) minus BTEX	µg/L	n/v	<25	<25	<25	<25	-	<25	<25	<25	<25
PHC F2 (>C10-C16 range)	µg/L	n/v	<100	<100	<100	<100	-	<100	<100	<100	<100
PHC F3 (>C16-C34 range)	µg/L	n/v	<200	<200	<200	<200	-	<200	<200	<200	<200
PHC F4 (>C34-C50 range)	µg/L	n/v	<200	<200	<200	<200	-	<200	<200	<200	<200
Chromatogram to baseline at C50	none	n/v	YES	YES	YES	YES	-	YES	YES	YES	YES
Polychlorinated Biphenyls											
Aroclor 1242	µg/L	n/v	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.05
Aroclor 1248	µg/L	n/v	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.05
Aroclor 1254	µg/L	n/v	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.05
Aroclor 1260	µg/L	n/v	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.05
Polychlorinated Biphenyls (PCBs)	µg/L	3[C]	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.05

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Table 8
Summary of Groundwater Analytical Results - Private Wells
Clarington Tranformer Station
Hydro One Networks Inc.

Aquifer Unit			Shallow Overburden								
Sample Date			31-Jul-14	6-Oct-14	15-Apr-15	8-Oct-15	29-Oct-15	13-Apr-16	3-Nov-16	26-Apr-17	18-Oct-17
Sample ID			WG-160900764-20140731-JK3	WG-160900764-20141006-AD03	WG-160900764-20150415-JK8	WG-160900764-20151008-JK23	WG-160900764-20151029-JK3	WG-160900764-20160413-JK19	WG-160900764-20161103-JK20	WG-160900764-20170426-JK23	WG-160900764-20171018-JK22
Water Type			Raw	Raw	Raw	Raw	Raw	Raw	Raw	Raw	Raw
Sample Tap			Outside (Barn)	Outside (Barn)	Outside (Barn)	Outside (Barn)	Outside (Barn)	Outside (Barn)	Outside (Barn)	Outside (Barn)	Outside (Barn)
Treatment Type			None	None	None	None	None	None	None	None	None
Sampling Company			STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC
Laboratory			MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX
Laboratory Work Order			B4D8040	B4I6091	B567144	B5K5292	B5M1891	B674120	B6N8820	B782997	B7N2030
Laboratory Sample ID			WY7357	XW7257	ACQ226	BDB100	BGI096	CEO962	DJO311	EGU146	FJE419
Filtered	Units	ODWS	Lab Filtered Metals	Total Metals	Total Metals	Total Metals	Total Metals	Total Metals	Total Metals	Total Metals	Total Metals
Semi-Volatile Organic Compounds											
Acenaphthene	µg/L	n/v	<0.2	<0.2	<0.2	<0.2	-	<0.2	<0.2	<0.2	<0.2
Acenaphthylene	µg/L	n/v	<0.2	<0.2	<0.2	<0.2	-	<0.2	<0.2	<0.2	<0.2
Anthracene	µg/L	n/v	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.05
Benzo(a)anthracene	µg/L	n/v	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.05
Benzo(a)pyrene	µg/L	0.01[B]	<0.01	<0.01	<0.01	<0.01	-	<0.01	<0.01	<0.01	<0.01
Benzo(b/j)fluoranthene	µg/L	n/v	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.05
Benzo(g,h,i)perylene	µg/L	n/v	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.05
Benzo(k)fluoranthene	µg/L	n/v	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.05
Biphenyl, 1,1'- (Biphenyl)	µg/L	n/v	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1	<0.1	<0.1
Bis(2-Chloroethyl)ether	µg/L	n/v	<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5
Bis(2-Chloroisopropyl)ether	µg/L	n/v	<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5
Bis(2-Ethylhexyl)phthalate (DEHP)	µg/L	n/v	<1	<1	<1	<1	-	<1	<1	<1	<1
Chloroaniline, 4-	µg/L	n/v	<1	<1	<1	<1	-	<1	<1	<1	<1
Chlorophenol, 2- (ortho-Chlorophenol)	µg/L	n/v	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1	<0.1	<0.1
Chrysene	µg/L	n/v	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.05
Dibenzo(a,h)anthracene	µg/L	n/v	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1	<0.1	<0.1
Dichlorobenzidine, 3,3'-	µg/L	n/v	<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5
Dichlorophenol, 2,4-	µg/L	900[B] 0.3$_f$[D]	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1	<0.1	<0.1
Diethyl Phthalate	µg/L	n/v	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1	<0.1	<0.1
Dimethyl Phthalate	µg/L	n/v	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1	<0.1	<0.1
Dimethylphenol, 2,4-	µg/L	n/v	<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5
Dinitrophenol, 2,4-	µg/L	n/v	<2	<2	<2	<2	-	<2	<2	<2	<2
Dinitrotoluene, 2,4-	µg/L	n/v	<0.3	<0.3	<0.3	<0.3	-	<0.3	<0.3	<0.3	<0.3
Dinitrotoluene, 2,6-	µg/L	n/v	<0.3	<0.3	<0.3	<0.3	-	<0.3	<0.3	<0.3	<0.3
Fluoranthene	µg/L	n/v	<0.2	<0.2	<0.2	<0.2	-	<0.2	<0.2	<0.2	<0.2
Fluorene	µg/L	n/v	<0.2	<0.2	<0.2	<0.2	-	<0.2	<0.2	<0.2	<0.2
Indeno(1,2,3-cd)pyrene	µg/L	n/v	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1	<0.1	<0.1
Methylnaphthalene (Total)	µg/L	n/v	<0.28	<0.28	<0.28	<0.28	-	<0.28	<0.28	<0.28	<0.28
Methylnaphthalene, 1-	µg/L	n/v	<0.2	<0.2	<0.2	<0.2	-	<0.2	<0.2	<0.2	<0.2
Methylnaphthalene, 2-	µg/L	n/v	<0.2	<0.2	<0.2	<0.2	-	<0.2	<0.2	<0.2	<0.2
Naphthalene	µg/L	n/v	<0.2	<0.2	<0.2	<0.2	-	<0.2	<0.2	<0.2	<0.2
Pentachlorophenol	µg/L	60[B] 30$_f$[D]	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1	<0.1	<0.1
Phenanthrene	µg/L	n/v	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1	<0.1	<0.1
Phenol	µg/L	n/v	<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5
Pyrene	µg/L	n/v	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.05
Trichlorobenzene, 1,2,4-	µg/L	n/v	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1	<0.1	<0.1
Trichlorophenol, 2,4,5-	µg/L	n/v	<0.2	<0.2	<0.2	<0.2	-	<0.2	<0.2	<0.2	<0.2
Trichlorophenol, 2,4,6-	µg/L	5[B] 2$_f$[D]	<0.2	<0.2	<0.2	<0.2	-	<0.2	<0.2	<0.2	<0.2
Volatile Organic Compounds											
Acetone	µg/L	n/v	<10	<10	<10	<10	-	<10	<10	<10	<10
Bromodichloromethane	µg/L	n/v	<0.50	<0.50	<0.5	<0.50	-	<0.50	<0.50	<0.50	<0.50
Bromoform (Tribromomethane)	µg/L	n/v	<1.0	<1.0	<1	<1.0	-	<1.0	<1.0	<1.0	<1.0
Bromomethane (Methyl bromide)	µg/L	n/v	<0.50	<0.50	<0.5	<0.50	-	<0.50	<0.50	<0.50	<0.50
Carbon Tetrachloride (Tetrachloromethane)	µg/L	2[B]	<0.20	<0.20	<0.2	<0.20	-	<0.20	<0.20	<0.20	<0.20
Chlorobenzene (Monochlorobenzene)	µg/L	80[B] 30$_f$[D]	<0.20	<0.20	<0.2	<0.20	-	<0.20	<0.20	<0.20	<0.20
Chloroform (Trichloromethane)	µg/L	n/v	<0.20	<0.20	<0.2	<0.20	-	<0.20	<0.20	<0.20	<0.20
Dibromochloromethane	µg/L	n/v	<0.50	<0.50	<0.5	<0.50	-	<0.50	<0.50	<0.50	<0.50
Dichlorobenzene, 1,2-	µg/L	200[B] 3$_f$[D]	<0.50	<0.50	<0.5	<0.50	-	<0.50	<0.50	<0.50	<0.50
Dichlorobenzene, 1,3-	µg/L	n/v	<0.50	<0.50	<0.5	<0.50	-	<0.50	<0.50	<0.50	<0.50
Dichlorobenzene, 1,4-	µg/L	5[B] 1$_f$[D]	<0.50	<0.50	<0.5	<0.50	-	<0.50	<0.50	<0.50	<0.50
Dichlorodifluoromethane (Freon 12)	µg/L	n/v	<1.0	<1.0	<1	<1.0	-	<1.0	<1.0	<1.0	<1.0
Dichloroethane, 1,1-	µg/L	n/v	<0.20	<0.20	<0.2	<0.20	-	<0.20	<0.20	<0.20	<0.20
Dichloroethane, 1,2-	µg/L	5[C]	<0.50	<0.50	<0.5	<0.50	-	<0.50	<0.50	<0.50	<0.50
Dichloroethene, 1,1-	µg/L	14[B]	<0.20	<0.20	<0.2	<0.20	-	<0.20	<0.20	<0.20	<0.20
Dichloroethene, cis-1,2-	µg/L	n/v	<0.50	<0.50	<0.5	<0.50	-	<0.50	<0.50	<0.50	<0.50
Dichloroethene, trans-1,2-	µg/L	n/v	<0.50	<0.50	<0.5	<0.50	-	<0.50	<0.50	<0.50	<0.50
Dichloropropane, 1,2-	µg/L	n/v	<0.20	<0.20	<0.2	<0.20	-	<0.20	<0.20	<0.20	<0.20
Dichloropropene, 1,3- (sum of isomers cis + trans)	µg/L	n/v	<0.50	<0.50	<0.5	<0.50	-	<0.50	<0.50	<0.50	<0.50
Dichloropropene, cis-1,3-	µg/L	n/v	<0.30	<0.30	<0.3	<0.30	-	<0.30	<0.30	<0.30	<0.30
Dichloropropene, trans-1,3-	µg/L	n/v	<0.40	<0.40	<0.4	<0.40	-	<0.40	<0.40	<0.40	<0.40
Ethylene Dibromide (Dibromoethane, 1,2-)	µg/L	n/v	<0.20	<0.20	<0.2	<0.20	-	<0.20	<0.20	<0.20	<0.20
Hexane (n-Hexane)	µg/L	n/v	<1.0	<1.0	<1	<1.0	-	<1.0	<1.0	<1.0	<1.0
Methyl Ethyl Ketone (MEK) (2-Butanone)	µg/L	n/v	<10	<10	<10	<10	-	<10	<10	<10	<10
Methyl Isobutyl Ketone (MIBK)	µg/L	n/v	<5.0	<5.0	<5	<5.0	-	<5.0	<5.0	<5.0	<5.0
Methyl tert-butyl ether (MTBE)	µg/L	15[D]	<0.50	<0.50	<0.5	<0.50	-	<0.50	<0.50	<0.50	<0.50
Methylene Chloride (Dichloromethane)	µg/L	50[B]	<2.0	<2.0	<2	<2.0	-	<2.0	<2.0	<2.0	<2.0
Styrene	µg/L	n/v	<0.50	<0.50	<0.5	<0.50	-	<0.50	<0.50	<0.50	<0.50
Tetrachloroethane, 1,1,1,2-	µg/L	n/v	<0.50	<0.50	<0.5	<0.50	-	<0.50	<0.50	<0.50	<0.50
Tetrachloroethane, 1,1,2,2-	µg/L	n/v	<0.50	<0.50	<0.5	<0.50	-	<0.50	<0.50	<0.50	<0.50
Tetrachloroethene (PCE)	µg/L	10[B]	<0.20	<0.20	<0.2	<0.20	-	<0.20	<0.20	<0.20	<0.20
Trichloroethane, 1,1,1-	µg/L	n/v	<0.20	<0.20	<0.2	<0.20	-	<0.20	<0.20	<0.20	<0.20
Trichloroethane, 1,1,2-	µg/L	n/v	<0.50	<0.50	<0.5	<0.50	-	<0.50	<0.50	<0.50	<0.50
Trichloroethene (TCE)	µg/L	5[B]	<0.20	<0.20	<0.2	<0.20	-	<0.20	<0.20	<0.20	<0.20
Trichlorofluoromethane (Freon 11)	µg/L	n/v	<0.50	<0.50	<0.5	<0.50	-	<0.50	<0.50	<0.50	<0.50
Trihalomethanes	µg/L	100$_e$[B]	<0.20	<0.20	<1	<0.20	-	<0.20	<1.0	<0.20	<1.0
Vinyl Chloride	µg/L	1[B]	<0.20	<0.20	<0.2	<0.20	-	<0.20	<0.20	<0.20	<0.20

See notes on last page

Table 8
Summary of Groundwater Analytical Results - Private Wells
Clarington Tranformer Station
Hydro One Networks Inc.

Aquifer Unit			Shallow Overburden								
Sample Date			1-Aug-14	6-Oct-14	20-Nov-14	30-Apr-15	7-Oct-15	12-Apr-16	2-Nov-16	25-Apr-17	16-Oct-17
Sample ID			WG-160900764-20140801-JK8	WG-160900764-20141006-AD06	W6-160900764-20141120-AD16	WG-160900764-20150430-JK18	WG-160900764-20151007-JK22	WG-160900764-20160412-JK8	WG-160900764-20161102-JK17	WG-160900764-20170425-JK12	WG-160900764-20171016-JK8
Water Type			Treated	Treated	Treated	Treated	Treated	Treated	Treated	Treated	Treated
Sample Tap			Inside (kitchen)	Inside (kitchen)	Inside (Kitchen)	Inside (Kitchen)	Inside (Kitchen)	Inside (Kitchen)	Inside (Kitchen)	Inside (Kitchen)	Inside (Kitchen)
Treatment Type			Softener	Softener	Softener	Softener	Softener	Softener	Softener	Softener	Softener
Sampling Company			STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC
Laboratory			MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX
Laboratory Work Order			B4D8040	B4I6091	B4L9371	B579325	B5K5099	B673025	B6N8820	B783174	B7M9357
Laboratory Sample ID			WY7362	XW7260	YN6862	AEW419	BCZ445	CEK231	DJO307	EGU898	FIP278
Filtered	Units	ODWS	Lab Filtered Metals	Total Metals	Total Metals	Total Metals	Total Metals	Total Metals	Total Metals	Total Metals	Total Metals
General Chemistry											
Acidity	mg/L	n/v	18	22	-	36	26	23	29	22	24
Alkalinity, Bicarbonate (as CaCO3)	mg/L	n/v	270	260	260	260	270	250	270	220	270
Alkalinity, Carbonate (as CaCO3)	mg/L	n/v	1.9	1.5	1.5	1.6	<1.0	1.4	1.8	1.6	1.9
Alkalinity, Total (as CaCO3)	mg/L	30-500[E]	270	260	260	260	270	260	280	230	270
Ammonia (as N)	mg/L	n/v	0.19	0.057	<0.050	0.23	0.051	0.16	0.13	<0.050	0.11
Anion Sum	me/L	n/v	16.0	16.0	15.8	16.7	17.1	16.1	18.1	13.0	18.7
Cation Sum	me/L	n/v	16.1	15.8	16.2	17.3	17.8	16.5	19.7	14.0	17.9
Chloride	mg/L	250[D]	**350[D]**	**350[D]**	**350[D]**	**380[D]**	**380[D]**	**360[D]**	**420[D]**	**270[D]**	**450[D]**
Cyanide (Free)	µg/L	200[B]	<2	<2	-	<2	<2	<2	<1	<1	<1
Dissolved Organic Carbon (DOC)	mg/L	5[D]	0.83	0.99	0.90	0.72	0.86	0.84	1.4	1.0	0.93
Electrical Conductivity, Lab	µmhos/cm	n/v	1,800	1,800	1,800	1,800	1,900	1,700	2,100	1,500	1,900
Fluoride	mg/L	1.5$_b$[B]	<0.10	<0.10	0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Hardness (as CaCO3)	mg/L	80-100[E]	**260[E]**	95	**140[E]**	**250[E]**	84	**340[E]**	**340[E]**	**43[E]**	**370[E]**
Ion Balance	%	n/v	0.160	0.490	1.45	1.95	2.19	1.27	4.07	3.97	2.22
Langelier Index (at 20 C)	none	n/v	0.575	-0.0350	0.133	0.443	-0.474	0.544	0.620	-0.525	0.708
Langelier Index (at 4 C)	none	n/v	0.329	-0.282	-0.113	0.197	-0.720	0.298	0.374	-0.772	0.462
Nitrate (as N)	mg/L	10.0$_d$[B]	0.19	0.25	0.33	0.17	<0.10	0.46	<0.10	1.06	<0.10
Nitrate + Nitrite (as N)	mg/L	10.0$_d$[B]	0.19	0.25	0.33	0.17	<0.10	0.46	<0.10	1.06	<0.10
Nitrite (as N)	mg/L	1.0$_d$[B]	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Orthophosphate(as P)	mg/L	n/v	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
pH	S.U.	6.5-8.5[E]	7.88	7.80	7.77	7.80	7.44	7.76	7.83	7.87	7.87
Saturation pH (at 20 C)	none	n/v	7.30	7.83	7.64	7.36	7.92	7.21	7.21	8.39	7.16
Saturation pH (at 4 C)	none	n/v	7.55	8.08	7.88	7.60	8.16	7.46	7.46	8.64	7.41
Sulfate	mg/L	500$_n$[D]	34	35	34	37	39	35	40	30	36
Total Dissolved Solids	mg/L	500[D]	**904[D]**	**882[D]**	**814[D]**	**916[D]**	**956[D]**	**910[D]**	**1,070[D]**	**810[D]**	**980[D]**
Total Organic Carbon	mg/L	n/v	0.73	0.92	0.85	0.89	0.77	0.84	1.4	0.91	0.98
Total Suspended Solids	mg/L	n/v	<10	<10	<10	<10	<10	<10	<10	<10	<10
Turbidity, Lab	NTU	5$_i$[D,E,I]	3.3	0.3	0.3	1.8	0.9	<0.2	0.2	0.1	<0.1
Metals											
Aluminum	µg/L	100[E]	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5	<5.0	<5
Antimony	µg/L	6[C]	<0.50	<0.50	<0.50	<0.50	<0.5	<0.50	<0.5	<0.50	<0.5
Arsenic	µg/L	25[C]	<1.0	<1.0	<1.0	<1.0	<1	<1.0	<1	<1.0	<1
Barium	µg/L	1,000[B]	70	23	22	70	25	93	75	15	120
Beryllium	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.5	<0.50	<0.5	<0.50	<0.5
Boron	µg/L	5,000[C]	24	15	23	23	18	22	19	28	21
Cadmium	µg/L	5[B]	<0.10	<0.10	<0.10	<0.10	<0.1	<0.10	<0.1	<0.10	<0.1
Calcium	µg/L	n/v	64,000	19,000	29,000	58,000	16,000	82,000	81,000	6,000	90,000
Chromium	µg/L	50[B]	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5	<5.0	<5
Chromium (Hexavalent)	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Cobalt	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.5	<0.50	<0.5	<0.50	<0.5
Copper	µg/L	1,000[D]	8.9	23	32	10	22	42	23	29	30
Iron	µg/L	300[D]	<100	<100	<100	240	<100	<100	<100	<100	<100
Lead	µg/L	10$_c$[B]	<0.50	<0.50	<0.50	<0.50	<0.5	1.7	<0.5	<0.50	<0.5
Magnesium	µg/L	n/v	25,000	12,000	16,000	27,000	11,000	33,000	35,000	6,800	36,000
Manganese	µg/L	50[D]	27	10	16	21	7.1	30	31	3.0	30
Mercury	µg/L	1[B]	<0.10	<0.10	<0.1	<0.10	<0.1	<0.10	<0.1	<0.1	<0.1
Molybdenum	µg/L	n/v	0.51	0.53	0.53	0.61	<0.5	0.66	0.54	0.61	0.51
Nickel	µg/L	n/v	<1.0	<1.0	<1.0	<1.0	<1	<1.0	<1	<1.0	1.2
Phosphorus	µg/L	n/v	<100	<100	<100	<100	<100	<100	<100	<100	<100
Potassium	µg/L	n/v	2,900	980	1,300	3,500	830	2,500	3,000	520	2,800
Selenium	µg/L	50[B]	<2.0	<2.0	<2.0	<2.0	<2	<2.0	<2	<2.0	<2
Silicon	µg/L	n/v	8,800	8,900	8,500	8,900	8,700	8,000	8,600	6,600	8,000
Silver	µg/L	n/v	<0.10	<0.10	<0.10	<0.10	<0.1	<0.10	<0.1	<0.10	<0.1
Sodium	µg/L	200,000$_g$[D] 20,000$_g$[F]	**250,000[DF]**	**320,000[DF]**	**310,000[DF]**	**280,000[DF]**	**370,000[DF]**	**220,000[DF]**	**290,000[DF]**	**300,000[DF]**	**240,000[DF]**
Strontium	µg/L	n/v	260	79	120	240	60	360	330	29	430
Thallium	µg/L	n/v	<0.050	<0.050	<0.050	<0.050	<0.05	<0.05	<0.05	<0.050	<0.05
Titanium	µg/L	n/v	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5	<5.0	<5
Uranium	µg/L	20[B]	0.16	0.17	0.17	0.18	<0.1	0.21	0.1	0.34	0.18
Vanadium	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.5	<0.50	<0.5	<0.50	<0.5
Zinc	µg/L	5,000[D]	50	34	40	39	25	46	35	10	390
Zirconium	µg/L	n/v	<1.0	<1.0	<1.0	<1.0	<1	<1.0	<1	<1.0	<1
Microbiological Analysis											
Escherichia coli (E.Coli)	cfu/100mL	0[A]	-	0	0	0	0	0	0	0	0
Total Coliform Background	cfu/100mL	n/v	-	86	12	10	58	0	16	4	21
Total Coliforms	cfu/100mL	0[A]	-	**46[A]**	**10[A]**	0	**52[A]**	**2[A]**	0	**1[A]**	**2[A]**
BTEX and Petroleum Hydrocarbons											
Benzene	µg/L	1[B]	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Toluene	µg/L	60[B] 24[D]	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Ethylbenzene	µg/L	140[B] 1.6[D]	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Xylene, m & p-	µg/L	300$_{s1}$[D]	<0.20	<0.20	<0.20	<0.20	<0.40	<0.40	<0.20	<0.20	<0.20
Xylene, o-	µg/L	300$_{s1}$[D]	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Xylenes, Total	µg/L	90[B] 20[D]	<0.20	<0.20	<0.20	<0.20	<0.40	<0.40	<0.20	<0.20	<0.20
PHC F1 (C6-C10 range)	µg/L	n/v	<25	<25	<25	<25	<25	<25	<25	<25	<25
PHC F1 (C6-C10 range) minus BTEX	µg/L	n/v	<25	<25	<25	<25	<25	<25	<25	<25	<25
PHC F2 (>C10-C16 range)	µg/L	n/v	<100	<100	<100	<100	<100	<100	<100	<100	<100
PHC F3 (>C16-C34 range)	µg/L	n/v	<200	<200	<200	<200	<200	<200	<200	<200	<200
PHC F4 (>C34-C50 range)	µg/L	n/v	<200	<200	<200	<200	<200	<200	<200	<200	<200
Chromatogram to baseline at C50	none	n/v	YES	YES	YES	YES	YES	YES	YES	YES	YES
Polychlorinated Biphenyls											
Aroclor 1242	µg/L	n/v	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Aroclor 1248	µg/L	n/v	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Aroclor 1254	µg/L	n/v	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Aroclor 1260	µg/L	n/v	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Polychlorinated Biphenyls (PCBs)	µg/L	3[C]	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05

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Table 8
Summary of Groundwater Analytical Results - Private Wells
Clarington Tranformer Station
Hydro One Networks Inc.

Aquifer Unit			Shallow Overburden								
Sample Date			1-Aug-14	6-Oct-14	20-Nov-14	30-Apr-15	7-Oct-15	12-Apr-16	2-Nov-16	25-Apr-17	16-Oct-17
Sample ID			WG-160900764-20140801-JK8	WG-160900764-20141006-AD06	W6-160900764-20141120-AD16	WG-160900764-20150430-JK18	WG-160900764-20151007-JK22	WG-160900764-20160412-JK8	WG-160900764-20161102-JK17	WG-160900764-20170425-JK12	WG-160900764-20171016-JK8
Water Type			Treated	Treated	Treated	Treated	Treated	Treated	Treated	Treated	Treated
Sample Tap			Inside (kitchen)	Inside (kitchen)	Inside (Kitchen)	Inside (Kitchen)	Inside (Kitchen)	Inside (Kitchen)	Inside (Kitchen)	Inside (Kitchen)	Inside (Kitchen)
Treatment Type			Softener	Softener	Softener	Softener	Softener	Softener	Softener	Softener	Softener
Sampling Company			STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC
Laboratory			MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX
Laboratory Work Order			B4D8040	B4I6091	B4L9371	B579325	B5K5099	B673025	B6N8820	B783174	B7M9357
Laboratory Sample ID			WY7362	XW7260	YN6862	AEW419	BCZ445	CEK231	DJO307	EGU898	FIP278
Filtered	Units	ODWS	Lab Filtered Metals	Total Metals	Total Metals	Total Metals	Total Metals	Total Metals	Total Metals	Total Metals	Total Metals
Semi-Volatile Organic Compounds											
Acenaphthene	µg/L	n/v	<0.2	<0.2	-	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Acenaphthylene	µg/L	n/v	<0.2	<0.2	-	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Anthracene	µg/L	n/v	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(a)anthracene	µg/L	n/v	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(a)pyrene	µg/L	0.01[B]	<0.01	<0.01	-	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Benzo(b/j)fluoranthene	µg/L	n/v	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(g,h,i)perylene	µg/L	n/v	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(k)fluoranthene	µg/L	n/v	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Biphenyl, 1,1'- (Biphenyl)	µg/L	n/v	<0.1	<0.1	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Bis(2-Chloroethyl)ether	µg/L	n/v	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Bis(2-Chloroisopropyl)ether	µg/L	n/v	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Bis(2-Ethylhexyl)phthalate (DEHP)	µg/L	n/v	<1	<1	-	<1	<1	<1	<1	2	<1
Chloroaniline, 4-	µg/L	n/v	<1	<1	-	<1	<1	<1	<1	<1	<1
Chlorophenol, 2- (ortho-Chlorophenol)	µg/L	n/v	<0.1	<0.1	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Chrysene	µg/L	n/v	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Dibenzo(a,h)anthracene	µg/L	n/v	<0.1	<0.1	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dichlorobenzidine, 3,3'-	µg/L	n/v	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Dichlorophenol, 2,4-	µg/L	900[B] 0.3_f[D]	<0.1	<0.1	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Diethyl Phthalate	µg/L	n/v	<0.1	<0.1	-	<0.1	<0.1	<0.1	<0.1	0.1	<0.1
Dimethyl Phthalate	µg/L	n/v	<0.1	<0.1	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dimethylphenol, 2,4-	µg/L	n/v	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Dinitrophenol, 2,4-	µg/L	n/v	<2	<2	-	<2	<2	<2	<2	<2	<2
Dinitrotoluene, 2,4-	µg/L	n/v	<0.3	<0.3	-	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Dinitrotoluene, 2,6-	µg/L	n/v	<0.3	<0.3	-	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Fluoranthene	µg/L	n/v	<0.2	<0.2	-	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Fluorene	µg/L	n/v	<0.2	<0.2	-	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Indeno(1,2,3-cd)pyrene	µg/L	n/v	<0.1	<0.1	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Methylnaphthalene (Total)	µg/L	n/v	<0.28	<0.28	-	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28
Methylnaphthalene, 1-	µg/L	n/v	<0.2	<0.2	-	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Methylnaphthalene, 2-	µg/L	n/v	<0.2	<0.2	-	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Naphthalene	µg/L	n/v	<0.2	<0.2	-	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Pentachlorophenol	µg/L	60[B] 30_f[D]	<0.1	<0.1	-	<0.1	<0.1	<0.1	<0.3 MI	<0.1	<0.1
Phenanthrene	µg/L	n/v	<0.1	<0.1	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Phenol	µg/L	n/v	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Pyrene	µg/L	n/v	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Trichlorobenzene, 1,2,4-	µg/L	n/v	<0.1	<0.1	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Trichlorophenol, 2,4,5-	µg/L	n/v	<0.2	<0.2	-	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Trichlorophenol, 2,4,6-	µg/L	5[B] 2_f[D]	<0.2	<0.2	-	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Volatile Organic Compounds											
Acetone	µg/L	n/v	<10	<10	<10	<10	<10	<10	<10	<10	<10
Bromodichloromethane	µg/L	n/v	0.67	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	3.1
Bromoform (Tribromomethane)	µg/L	n/v	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromomethane (Methyl bromide)	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Carbon Tetrachloride (Tetrachloromethane)	µg/L	2[B]	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Chlorobenzene (Monochlorobenzene)	µg/L	80[B] 30_f[D]	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Chloroform (Trichloromethane)	µg/L	n/v	3.0	0.47	0.58	1.4	0.30	2.6	<0.20	2.0	3.8
Dibromochloromethane	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	2.9
Dichlorobenzene, 1,2-	µg/L	200[B] 3_f[D]	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Dichlorobenzene, 1,3-	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Dichlorobenzene, 1,4-	µg/L	5[B] 1_f[D]	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Dichlorodifluoromethane (Freon 12)	µg/L	n/v	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Dichloroethane, 1,1-	µg/L	n/v	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Dichloroethane, 1,2-	µg/L	5[C]	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Dichloroethene, 1,1-	µg/L	14[B]	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Dichloroethene, cis-1,2-	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Dichloroethene, trans-1,2-	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Dichloropropane, 1,2-	µg/L	n/v	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Dichloropropene, 1,3- (sum of isomers cis + trans)	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Dichloropropene, cis-1,3-	µg/L	n/v	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
Dichloropropene, trans-1,3-	µg/L	n/v	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40
Ethylene Dibromide (Dibromoethane, 1,2-)	µg/L	n/v	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Hexane (n-Hexane)	µg/L	n/v	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Methyl Ethyl Ketone (MEK) (2-Butanone)	µg/L	n/v	<10	<10	<10	<10	<10	<10	<10	<10	<10
Methyl Isobutyl Ketone (MIBK)	µg/L	n/v	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Methyl tert-butyl ether (MTBE)	µg/L	15[D]	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Methylene Chloride (Dichloromethane)	µg/L	50[B]	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Styrene	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Tetrachloroethane, 1,1,1,2-	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Tetrachloroethane, 1,1,2,2-	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Tetrachloroethene (PCE)	µg/L	10[B]	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Trichloroethane, 1,1,1-	µg/L	n/v	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Trichloroethane, 1,1,2-	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Trichloroethene (TCE)	µg/L	5[B]	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Trichlorofluoromethane (Freon 11)	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Trihalomethanes	µg/L	100_e[B]	3.67	0.47	0.58	1.4	<0.50	2.6	<1.0	2.0	9.8
Vinyl Chloride	µg/L	1[B]	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20

See notes on last page

Table 8
Summary of Groundwater Analytical Results - Private Wells
Clarington Tranformer Station
Hydro One Networks Inc.

Aquifer Unit			Shallow Overburden									
Sample Date			1-Aug-14	7-Oct-14	30-Apr-15	7-Oct-15	28-Oct-16	10-May-17	19-Oct-17	1-Aug-14	7-Oct-14	11-Nov-14
Sample ID			WG-160900764-20140801-JK9	WG-160900764-20141007-AD11	WG-160900764-20150430-JK19	WG-160900764-20151007-JK20	WG-160900764-20161028-AW1	WG-160900764-20170510-JK25	WG-160900764-20171019-JK26	WG-160900764-20140801-JK7	WG-160900764-20141007-AD09	WG-160900764-20141111-AD01
Water Type			Raw	Raw	Raw	Raw	Raw	Raw	Raw	Raw	Raw	Raw
Sample Tap			Outside (Back house)	Outside (Back house)	Outside (Back house)	Outside (Back house)	Outside (Back house)	Outside (Back house)	Outside (Back house)	Outside (Back house)	Outside (Back house)	Outside (Back house)
Treatment Type			None	None	None	None	None	None	None	None	None	None
Sampling Company			STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC
Laboratory			MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX
Laboratory Work Order			B4D8040	B4I7101	B579325	B5K5099	B6N3868	B795344	B7N2030	B4D8040	B4I7101	B4L2726
Laboratory Sample ID			WY7363	XX2938	AEW420	BCZ443	DIO842	EIZ337	FJE423	WY7361	XX2936	YK4121
Filtered	Units	ODWS	Lab Filtered Metals	Total Metals	Total Metals	Total Metals	Total Metals	Total Metals	Total Metals	Lab Filtered Metals	Total Metals	Total Metals
General Chemistry												
Acidity	mg/L	n/v	19	18	29	25	36	37	15	18	16	27
Alkalinity, Bicarbonate (as CaCO3)	mg/L	n/v	280	290	280	280	290	270	300	250	270	260
Alkalinity, Carbonate (as CaCO3)	mg/L	n/v	2.4	2.2	2.3	1.1	2.7	2.2	2.8	1.9	1.9	1.9
Alkalinity, Total (as CaCO3)	mg/L	30-500[E]	280	290	280	280	290	270	300	250	270	270
Ammonia (as N)	mg/L	n/v	<0.050	<0.050	0.061	<0.050	<0.050	<0.050	0.067	<0.050	<0.050	<0.050
Anion Sum	me/L	n/v	9.10	7.54	8.62	7.72	7.95	7.01	7.92	6.52	6.18	6.33
Cation Sum	me/L	n/v	9.35	7.84	8.87	7.88	7.92	7.09	8.00	6.68	6.14	6.52
Chloride	mg/L	250[D]	92	31	73	45	48	33	42	19	18	24
Cyanide (Free)	µg/L	200[B]	<2	<2	<2	<2	<1	<1	<1	<2	<2	<2
Dissolved Organic Carbon (DOC)	mg/L	5[D]	1.2	1.4	1.0	1.1	1.1	1.8	1.3	1.1	0.99	0.94
Electrical Conductivity, Lab	µmhos/cm	n/v	920	740	830	760	790	690	740	640	590	620
Fluoride	mg/L	1.5$_b$[B]	<0.10	<0.10	<0.10	<0.10	0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Hardness (as CaCO3)	mg/L	80-100[E]	**390[E]**	**330[E]**	**380[E]**	**340[E]**	**340[E]**	**300[E]**	**330[E]**	**310[E]**	**290[E]**	**300[E]**
Ion Balance	%	n/v	1.36	2.00	1.40	0.980	0.160	0.600	0.530	1.27	0.330	1.53
Langelier Index (at 20 C)	none	n/v	1.05	0.983	1.05	0.689	1.08	0.955	1.10	0.917	0.904	0.916
Langelier Index (at 4 C)	none	n/v	0.804	0.735	0.806	0.441	0.827	0.706	0.850	0.668	0.655	0.667
Nitrate (as N)	mg/L	10.0$_d$[B]	8.51	8.00	6.84	5.96	5.45	5.03	6.13	**10.5[B]**	2.69	2.96
Nitrate + Nitrite (as N)	mg/L	10.0$_d$[B]	8.51	8.00	6.84	5.96	5.45	-	6.13	**10.5[B]**	2.69	2.96
Nitrite (as N)	mg/L	1.0$_d$[B]	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Orthophosphate(as P)	mg/L	n/v	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
pH	S.U.	6.5-8.5[E]	7.96	7.90	7.94	7.62	8.00	7.94	8.01	7.90	7.87	7.89
Saturation pH (at 20 C)	none	n/v	6.91	6.92	6.89	6.93	6.92	6.98	6.91	6.99	6.97	6.97
Saturation pH (at 4 C)	none	n/v	7.16	7.17	7.14	7.18	7.17	7.23	7.16	7.24	7.22	7.22
Sulfate	mg/L	500$_n$[D]	16	15	18	17	17	17	15	8	5	5
Total Dissolved Solids	mg/L	500[D]	**604[D]**	418	482	426	456	362	425	390	294	358
Total Organic Carbon	mg/L	n/v	1.0	1.4	1.1	1.1	1.1	1.9	1.4	0.99	1.0	0.90
Total Suspended Solids	mg/L	n/v	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Turbidity, Lab	NTU	5$_{ij}$[D, E]	<0.2	<0.2	<0.2	<0.2	0.5	0.2	0.2	0.5	0.3	<0.2
Metals												
Aluminum	µg/L	100[E]	<5.0	<5.0	<5.0	<5.0	<5	<5	<5	<5.0	<5.0	<5.0
Antimony	µg/L	6[C]	<0.50	<0.50	<0.50	<0.5	<0.5	<0.5	<0.5	<0.50	<0.50	<0.50
Arsenic	µg/L	25[C]	<1.0	<1.0	<1.0	<1	<1	<1	<1	<1.0	<1.0	<1.0
Barium	µg/L	1,000[B]	65	71	60	58	58	57	62	32	33	35
Beryllium	µg/L	n/v	<0.50	<0.50	<0.50	<0.5	<0.5	<0.5	<0.5	<0.50	<0.50	<0.50
Boron	µg/L	5,000[C]	12	26	15	<10	<10	27	24	24	29	29
Cadmium	µg/L	5[B]	<0.10	<0.10	<0.10	<0.1	<0.1	<0.1	<0.1	<0.10	<0.10	<0.10
Calcium	µg/L	n/v	140,000	120,000	130,000	120,000	120,000	110,000	120,000	110,000	100,000	110,000
Chromium	µg/L	50[B]	<5.0	<5.0	<5.0	<5.0	<5	<5	<5	<5.0	<5.0	<5.0
Chromium (Hexavalent)	µg/L	n/v	<0.50	0.53	<0.50	<0.50	<0.50	0.58	0.51	<0.50	<0.50	<0.50
Cobalt	µg/L	n/v	<0.50	<0.50	<0.50	<0.5	<0.5	<0.5	<0.5	<0.50	<0.50	<0.50
Copper	µg/L	1,000[D]	4.0	7.2	4.5	6.2	8	5.2	4.8	17	15	12
Iron	µg/L	300[D]	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
Lead	µg/L	10$_c$[B]	<0.50	0.70	<0.50	<0.5	<0.5	<0.5	<0.5	<0.50	<0.50	<0.50
Magnesium	µg/L	n/v	11,000	8,800	11,000	11,000	11,000	9,500	10,000	7,200	6,400	6,900
Manganese	µg/L	50[D]	<2.0	<2.0	<2.0	<2	<2	<2	<2	<2.0	<2.0	<2.0
Mercury	µg/L	1[B]	<0.10	<0.10	<0.10	<0.1	<0.1	<0.1	<0.1	<0.10	<0.10	<0.10
Molybdenum	µg/L	n/v	<0.50	<0.50	<0.50	<0.5	<0.5	<0.5	<0.5	<0.50	<0.50	<0.50
Nickel	µg/L	n/v	<1.0	<1.0	<1.0	<1	<1	<1	<1	<1.0	<1.0	<1.0
Phosphorus	µg/L	n/v	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
Potassium	µg/L	n/v	2,700	7,400	2,400	2,100	2,000	4,300	4,200	880	880	880
Selenium	µg/L	50[B]	<2.0	<2.0	<2.0	<2	<2	<2	<2	<2.0	<2.0	<2.0
Silicon	µg/L	n/v	6,100	5,500	5,500	5,600	5,800	4,600	5,600	5,200	5,000	4,800
Silver	µg/L	n/v	<0.10	<0.10	<0.10	<0.1	<0.1	<0.1	<0.1	<0.10	<0.10	<0.10
Sodium	µg/L	200,000$_g$[D] 20,000$_g$[F]	**35,000[F]**	**24,000[F]**	**30,000[F]**	**26,000[F]**	**26,000[F]**	**21,000[F]**	**28,000[F]**	9,600	8,800	11,000
Strontium	µg/L	n/v	250	240	250	220	240	210	230	190	190	200
Thallium	µg/L	n/v	<0.050	<0.050	<0.050	<0.05	<0.05	<0.05	<0.05	<0.050	<0.050	<0.050
Titanium	µg/L	n/v	<5.0	<5.0	<5.0	<5.0	<5	<5	<5	<5.0	<5.0	<5.0
Uranium	µg/L	20[B]	0.29	0.26	0.26	0.27	0.27	0.27	0.31	0.20	0.15	0.16
Vanadium	µg/L	n/v	<0.50	<0.50	<0.50	<0.5	0.57	<0.5	<0.5	<0.50	<0.50	<0.50
Zinc	µg/L	5,000[D]	5.4	16	8.8	6.9	9.8	11	5.4	5.9	5.1	7.0
Zirconium	µg/L	n/v	<1.0	<1.0	<1.0	<1	<1	<1	<1	<1.0	<1.0	<1.0
Microbiological Analysis												
Escherichia coli (E.Coli)	cfu/100mL	0[A]	-	0	0	**NDOGN[A]**	0	0	0	-	0	0
Total Coliform Background	cfu/100mL	n/v	-	96	7	**NDOGN[A]**	20	650	86	-	110	46
Total Coliforms	cfu/100mL	0[A]	-	**2[A]**	0	**NDOGN[A]**	0	0	**7[A]**	-	**38[A]**	**120[A]**
BTEX and Petroleum Hydrocarbons												
Benzene	µg/L	1[B]	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Toluene	µg/L	60[B] 24[D]	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Ethylbenzene	µg/L	140[B] 1.6[D]	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Xylene, m & p-	µg/L	300$_{sl}$[D]	<0.20	<0.20	<0.20	<0.40	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Xylene, o-	µg/L	300$_{sl}$[D]	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Xylenes, Total	µg/L	90[B] 20[D]	<0.20	<0.20	<0.20	<0.40	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
PHC F1 (C6-C10 range)	µg/L	n/v	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
PHC F1 (C6-C10 range) minus BTEX	µg/L	n/v	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
PHC F2 (>C10-C16 range)	µg/L	n/v	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
PHC F3 (>C16-C34 range)	µg/L	n/v	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200
PHC F4 (>C34-C50 range)	µg/L	n/v	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200
Chromatogram to baseline at C50	none	n/v	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
Polychlorinated Biphenyls												
Aroclor 1242	µg/L	n/v	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Aroclor 1248	µg/L	n/v	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Aroclor 1254	µg/L	n/v	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Aroclor 1260	µg/L	n/v	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Polychlorinated Biphenyls (PCBs)	µg/L	3[C]	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05

See notes on last page

Table 8
Summary of Groundwater Analytical Results - Private Wells
Clarington Tranformer Station
Hydro One Networks Inc.

Aquifer Unit			Shallow Overburden									
Sample Date			1-Aug-14	7-Oct-14	30-Apr-15	7-Oct-15	28-Oct-16	10-May-17	19-Oct-17	1-Aug-14	7-Oct-14	11-Nov-14
Sample ID			WG-160900764-20140801-JK9	WG-160900764-20141007-AD11	WG-160900764-20150430-JK19	WG-160900764-20151007-JK20	WG-160900764-20161028-AW1	WG-160900764-20170510-JK25	WG-160900764-20171019-JK26	WG-160900764-20140801-JK7	WG-160900764-20141007-AD09	WG-160900764-20141111-AD01
Water Type			Raw	Raw	Raw	Raw	Raw	Raw	Raw	Raw	Raw	Raw
Sample Tap			Outside (Back house)	Outside (Back house)	Outside (Back house)	Outside (Back house)	Outside (Back house)	Outside (Back house)	Outside (Back house)	Outside (Back house)	Outside (Back house)	Outside (Back house)
Treatment Type			None	None	None	None	None	None	None	None	None	None
Sampling Company			STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC
Laboratory			MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX
Laboratory Work Order			B4D8040	B4I7101	B579325	B5K5099	B6N3868	B795344	B7N2030	B4D8040	B4I7101	B4L2726
Laboratory Sample ID			WY7363	XX2938	AEW420	BCZ443	DIO842	EIZ337	FJE423	WY7361	XX2936	YK4121
Filtered	Units	ODWS	Lab Filtered Metals	Total Metals	Total Metals	Total Metals	Total Metals	Total Metals	Total Metals	Lab Filtered Metals	Total Metals	Total Metals
Semi-Volatile Organic Compounds												
Acenaphthene	µg/L	n/v	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Acenaphthylene	µg/L	n/v	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Anthracene	µg/L	n/v	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(a)anthracene	µg/L	n/v	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(a)pyrene	µg/L	0.01[B]	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Benzo(b/j)fluoranthene	µg/L	n/v	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(g,h,i)perylene	µg/L	n/v	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(k)fluoranthene	µg/L	n/v	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Biphenyl, 1,1'- (Biphenyl)	µg/L	n/v	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Bis(2-Chloroethyl)ether	µg/L	n/v	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Bis(2-Chloroisopropyl)ether	µg/L	n/v	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Bis(2-Ethylhexyl)phthalate (DEHP)	µg/L	n/v	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroaniline, 4-	µg/L	n/v	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chlorophenol, 2- (ortho-Chlorophenol)	µg/L	n/v	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Chrysene	µg/L	n/v	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Dibenzo(a,h)anthracene	µg/L	n/v	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dichlorobenzidine, 3,3'-	µg/L	n/v	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Dichlorophenol, 2,4-	µg/L	900[B] 0.3$_f$[D]	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Diethyl Phthalate	µg/L	n/v	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dimethyl Phthalate	µg/L	n/v	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dimethylphenol, 2,4-	µg/L	n/v	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Dinitrophenol, 2,4-	µg/L	n/v	<2	<2	<2	<2	<5 MI	<2	<2	<2	<2	<2
Dinitrotoluene, 2,4-	µg/L	n/v	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Dinitrotoluene, 2,6-	µg/L	n/v	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Fluoranthene	µg/L	n/v	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Fluorene	µg/L	n/v	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Indeno(1,2,3-cd)pyrene	µg/L	n/v	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Methylnaphthalene (Total)	µg/L	n/v	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28
Methylnaphthalene, 1-	µg/L	n/v	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Methylnaphthalene, 2-	µg/L	n/v	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Naphthalene	µg/L	n/v	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Pentachlorophenol	µg/L	60[B] 30$_f$[D]	<0.1	<0.1	<0.1	<0.1	<1 MI	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	µg/L	n/v	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Phenol	µg/L	n/v	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Pyrene	µg/L	n/v	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Trichlorobenzene, 1,2,4-	µg/L	n/v	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Trichlorophenol, 2,4,5-	µg/L	n/v	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Trichlorophenol, 2,4,6-	µg/L	5[B] 2$_f$[D]	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Volatile Organic Compounds												
Acetone	µg/L	n/v	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Bromodichloromethane	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Bromoform (Tribromomethane)	µg/L	n/v	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromomethane (Methyl bromide)	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Carbon Tetrachloride (Tetrachloromethane)	µg/L	2[B]	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Chlorobenzene (Monochlorobenzene)	µg/L	80[B] 30$_f$[D]	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Chloroform (Trichloromethane)	µg/L	n/v	<0.20	0.81	<0.20	<0.20	<0.20	<0.20	<0.20	0.33	0.27	<0.20
Dibromochloromethane	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Dichlorobenzene, 1,2-	µg/L	200[B] 3$_f$[D]	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Dichlorobenzene, 1,3-	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Dichlorobenzene, 1,4-	µg/L	5[B] 1$_f$[D]	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Dichlorodifluoromethane (Freon 12)	µg/L	n/v	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Dichloroethane, 1,1-	µg/L	n/v	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Dichloroethane, 1,2-	µg/L	5[C]	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Dichloroethene, 1,1-	µg/L	14[B]	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Dichloroethene, cis-1,2-	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Dichloroethene, trans-1,2-	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Dichloropropane, 1,2-	µg/L	n/v	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Dichloropropene, 1,3- (sum of isomers cis + trans)	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Dichloropropene, cis-1,3-	µg/L	n/v	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
Dichloropropene, trans-1,3-	µg/L	n/v	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40
Ethylene Dibromide (Dibromoethane, 1,2-)	µg/L	n/v	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Hexane (n-Hexane)	µg/L	n/v	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Methyl Ethyl Ketone (MEK) (2-Butanone)	µg/L	n/v	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Methyl Isobutyl Ketone (MIBK)	µg/L	n/v	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Methyl tert-butyl ether (MTBE)	µg/L	15[D]	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Methylene Chloride (Dichloromethane)	µg/L	50[B]	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Styrene	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Tetrachloroethane, 1,1,1,2-	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Tetrachloroethane, 1,1,2,2-	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Tetrachloroethene (PCE)	µg/L	10[B]	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Trichloroethane, 1,1,1-	µg/L	n/v	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Trichloroethane, 1,1,2-	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Trichloroethene (TCE)	µg/L	5[B]	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Trichlorofluoromethane (Freon 11)	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Trihalomethanes	µg/L	100$_e$[B]	<0.20	0.81	<1.0	<0.20	<1.0	-	<1.0	0.33	0.27	<0.20
Vinyl Chloride	µg/L	1[B]	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20

See notes on last page

Table 8
Summary of Groundwater Analytical Results - Private Wells
Clarington Tranformer Station
Hydro One Networks Inc.

Aquifer Unit			Shallow Overburden										
Sample Date			10-Apr-15	1-Aug-14	8-Oct-14	12-Nov-14	12-Nov-14	21-Apr-15	5-Oct-15	16-Nov-15	12-Apr-16	3-Nov-16	25-Apr-17
Sample ID			WG-160900764-20150410-AD05	WG-160900764-20140801-JK11	WG-160900764-20141008-AD18	WG-160900764-20141112-AD10	WG-160900764-20141112-AD10 FILTERED	WG-160900764-20150421-JK14	WG-160900764-20151005-JK8	WG-160900764-20151116-JK	WG-160900764-20160412-JK12	WG-160900764-20161103-JK19	WG-160900764-20170425-JK21
Water Type			Raw	Raw	Treated	Treated	Treated	Raw	Raw	Raw	Raw	Raw	Raw
Sample Tap			Outside (Back house)	Outside (Driveway)	Outside (Driveway)	Outside (Driveway)	Outside (Driveway)	Outside (Driveway)	Outside (Driveway)	Outside (Back Deck)	Outside (Back Deck)	Outside (Back Deck)	Outside (Back Deck)
Treatment Type			None	Softener (not operational)	Softener	Softener (not operational)	Softener (not operational)	None	None	None	None	None	None
Sampling Company			STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC
Laboratory			MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX
Laboratory Work Order			B563627	B4D8040	B4I8196	B4L3740	B4L3740	B571211	B5K2703	B5N4851	B673025	B6N8820	B783174
Laboratory Sample ID			ABY873	WY7365	XX8289	YK9093	YK9157	ADJ096	BCM873	BIZ104	CEK236	DJO310	EGU907
Filtered	Units	ODWS	Total Metals	ab Filtered Metal	Total Metals	Total Metals	Total Metals	Total Metals	Total Metals	Total Metals	Total Metals	Total Metals	Total Metals
General Chemistry													
Acidity	mg/L	n/v	19	<10	<10	36	-	15	50	42	26	50	23
Alkalinity, Bicarbonate (as CaCO3)	mg/L	n/v	240	320	320	330	-	230	340	330	270	340	230
Alkalinity, Carbonate (as CaCO3)	mg/L	n/v	<1	2.3	2.0	2.4	-	2.1	1.2	1.4	1.5	2.1	1.9
Alkalinity, Total (as CaCO3)	mg/L	30-500[E]	240	320	330	340	-	230	340	330	270	350	230
Ammonia (as N)	mg/L	n/v	<0.05	<0.050	<0.050	0.12	-	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Anion Sum	me/L	n/v	5.62	8.24	8.26	7.97	-	5.45	9.41	8.58	5.96	10.3	5.11
Cation Sum	me/L	n/v	5.76	8.15	8.15	8.03	-	5.57	9.78	8.84	6.26	9.94	4.88
Chloride	mg/L	250[D]	14	39	38	24	-	11	64	48	9.3	92	8.3
Cyanide (Free)	µg/L	200[B]	<2	<2	<2	<2	-	<2	<2	<2	<2	<1	<1
Dissolved Organic Carbon (DOC)	mg/L	5[D]	0.79	0.85	0.87	0.90	-	3.0	0.84	0.84	1.1	0.79	1.1
Electrical Conductivity, Lab	µmhos/cm	n/v	540	780	790	730	-	510	870	840	560	970	480
Fluoride	mg/L	1.5_b[B]	<0.1	<0.10	<0.10	<0.10	-	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Hardness (as CaCO3)	mg/L	80-100[E]	**270[E]**	**320[E]**	**1.8[E]**	**250[E]**	-	**2.6[E]**	**430[E]**	**390[E]**	**300[E]**	**410[E]**	**230[E]**
Ion Balance	%	n/v	1.22	0.520	0.710	0.330	-	1.07	1.92	1.51	2.47	1.58	2.26
Langelier Index (at 20 C)	none	n/v	0.439	0.927	-1.38	0.827	-	-1.12	0.796	0.818	0.812	1.01	0.816
Langelier Index (at 4 C)	none	n/v	0.190	0.679	-1.63	0.578	-	-1.37	0.548	0.570	0.563	0.766	0.567
Nitrate (as N)	mg/L	10.0_a[B]	4.10	3.49	3.43	2.69	-	4.55	4.06	2.99	0.83	3.87	1.10
Nitrate + Nitrite (as N)	mg/L	10.0_a[B]	4.10	3.49	3.43	2.69	-	4.57	4.06	2.99	0.83	3.87	1.1
Nitrite (as N)	mg/L	1.0_a[B]	<0.01	<0.010	<0.010	<0.010	-	0.015	<0.010	<0.010	<0.010	<0.010	<0.010
Orthophosphate(as P)	mg/L	n/v	<0.01	<0.010	<0.010	<0.010	-	0.026	<0.010	<0.010	<0.010	<0.010	<0.010
pH	S.U.	6.5-8.5[E]	7.49	7.89	7.81	7.88	-	7.98	7.57	7.65	7.77	7.82	7.94
Saturation pH (at 20 C)	none	n/v	7.05	6.96	9.19	7.05	-	9.10	6.78	6.84	6.96	6.81	7.12
Saturation pH (at 4 C)	none	n/v	7.30	7.21	9.44	7.30	-	9.35	7.02	7.08	7.21	7.05	7.37
Sulfate	mg/L	500_n[D]	5	20	21	18	-	7	23	22	9.2	21	8.6
Total Dissolved Solids	mg/L	500[D]	310	440	430	402	-	270	472	436	322	**558[D]**	266
Total Organic Carbon	mg/L	n/v	0.78	0.87	0.81	0.86	-	2.5	0.85	0.80	1.0	1.7	1.0
Total Suspended Solids	mg/L	n/v	<10	<10	<10	<10	-	<10	<10	<10	<10	<10	<10
Turbidity, Lab	NTU	$5_{[}$[D, E]	<0.2	<0.2	<0.2	0.3	-	0.3	<0.2	<0.2	<0.2	0.8	<0.1
Metals													
Aluminum	µg/L	100[E]	<5	<5.0	5.4	5.1	-	9.3	<5.0	<5	5.2	<5	<5.0
Antimony	µg/L	6[C]	<0.5	<0.50	<0.50	<0.50	-	<0.50	<0.5	<0.5	<0.50	<0.5	<0.50
Arsenic	µg/L	25[C]	<1	<1.0	<1.0	<1.0	-	<1.0	<1	<1	<1.0	<1	<1.0
Barium	µg/L	1,000[B]	26	31	<2.0	25	-	<2.0	71	73	32	73	24
Beryllium	µg/L	n/v	<0.5	<0.50	<0.50	<0.50	-	<0.50	<0.5	<0.5	<0.50	<0.5	<0.50
Boron	µg/L	5,000[C]	21	15	13	13	-	<10	15	17	<10	22	<10
Cadmium	µg/L	5[B]	<0.1	<0.10	<0.10	<0.10	-	<0.10	<0.1	<0.1	<0.10	<0.1	<0.10
Calcium	µg/L	n/v	97,000	96,000	570	74,000	-	880	140,000	130,000	110,000	140,000	84,000
Chromium	µg/L	50[B]	<5	<5.0	<5.0	<5.0	-	<5.0	<5.0	<5	<5.0	<5	<5.0
Chromium (Hexavalent)	µg/L	n/v	<0.5	0.58	0.51	<0.50	-	<0.50	0.58	0.66	<0.50	0.58	<0.50
Cobalt	µg/L	n/v	<0.5	<0.50	<0.50	<0.50	-	<0.50	<0.5	<0.5	<0.50	<0.5	<0.50
Copper	µg/L	1,000[D]	5.7	39	6.1	22	-	24	44	11	8.9	13	7.7
Iron	µg/L	300[D]	<100	<100	<100	<100	-	<100	<100	<100	<100	<100	<100
Lead	µg/L	10_c[B]	<0.5	1.3	<0.50	<0.50	-	0.60	1.4	<0.5	<0.50	0.52	<0.50
Magnesium	µg/L	n/v	6,700	19,000	83	15,000	-	110	18,000	17,000	7,200	18,000	5,300
Manganese	µg/L	50[D]	<2	<2.0	<2.0	<2.0	-	<2.0	<2	<2	<2.0	<2	<2.0
Mercury	µg/L	1[B]	<0.1	<0.10	<0.10	<0.1	-	<0.1	<0.1	<0.1	<0.10	<0.1	<0.1
Molybdenum	µg/L	n/v	<0.5	<0.50	<0.50	<0.50	-	<0.50	<0.5	<0.5	<0.50	<0.5	<0.50
Nickel	µg/L	n/v	<1	<1.0	<1.0	<1.0	-	<1.0	<1	<1	<1.0	<1	<1.0
Phosphorus	µg/L	n/v	<100	<100	<100	<100	-	<100	<100	<100	<100	<100	<100
Potassium	µg/L	n/v	640	1,100	<200	1,500	-	<200	960	910	530	930	480
Selenium	µg/L	50[B]	<2	<2.0	<2.0	<2.0	-	<2.0	<2	<2	<2.0	<2	<2.0
Silicon	µg/L	n/v	4,300	7,000	6,800	7,500	-	3,100	7,800	7,600	4,900	7,300	3,900
Silver	µg/L	n/v	<0.1	<0.10	<0.10	<0.10	-	<0.10	<0.1	<0.1	<0.10	<0.1	<0.10
Sodium	µg/L	$200,000_g$[D] $20,000_g$[F]	7,900	**40,000[F]**	**190,000[F]**	**70,000[F]**	-	**130,000[F]**	**27,000[F]**	**25,000[F]**	6,800	**38,000[F]**	5,800
Strontium	µg/L	n/v	170	170	1.3	130	-	1.9	290	280	190	290	150
Thallium	µg/L	n/v	<0.05	<0.050	<0.050	<0.050	-	<0.050	<0.05	<0.05	<0.05	<0.05	<0.050
Titanium	µg/L	n/v	<5	<5.0	<5.0	<5.0	-	<5.0	<5.0	<5	<5.0	<5	<5.0
Uranium	µg/L	20[B]	0.16	0.51	0.42	0.44	-	0.21	0.57	0.47	0.23	0.47	0.20
Vanadium	µg/L	n/v	<0.5	<0.50	<0.50	<0.50	-	<0.50	<0.5	0.52	<0.50	<0.5	<0.50
Zinc	µg/L	5,000[D]	<5	30	9.9	9.5	-	17	30	6.6	7.9	14	7.2
Zirconium	µg/L	n/v	<1	<1.0	<1.0	<1.0	-	<1.0	<1	<1	<1.0	<1	<1.0
Microbiological Analysis													
Escherichia coli (E.Coli)	cfu/100mL	0[A]	**1[A]**	-	**22[A]**	0	-	0	0	0	0	0	**1[A]**
Total Coliform Background	cfu/100mL	n/v	90	-	110	44	-	0	0	46	50	1,300	53
Total Coliforms	cfu/100mL	0[A]	**2[A]**	-	**24[A]**	**32[A]**	-	0	0	**2[A]**	**30[A]**	0	**1[A]**
BTEX and Petroleum Hydrocarbons													
Benzene	µg/L	1[B]	<0.2	<0.20	<0.20	<0.20	-	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Toluene	µg/L	60[B] 24[D]	<0.2	<0.20	<0.20	<0.20	-	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Ethylbenzene	µg/L	140[B] 1.6[D]	<0.2	<0.20	<0.20	<0.20	-	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Xylene, m & p-	µg/L	300_{s1}[D]	<0.2	<0.20	<0.20	<0.20	-	<0.20	<0.20	<0.40	<0.40	<0.20	<0.20
Xylene, o-	µg/L	300_{s1}[D]	<0.2	<0.20	<0.20	<0.20	-	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Xylenes, Total	µg/L	90[B] 20[D]	<0.2	<0.20	<0.20	<0.20	-	<0.20	<0.20	<0.40	<0.40	<0.20	<0.20
PHC F1 (C6-C10 range)	µg/L	n/v	<25	<25	<25	<25	-	<25	<25	<25	<25	<25	<25
PHC F1 (C6-C10 range) minus BTEX	µg/L	n/v	<25	<25	<25	<25	-	<25	<25	<25	<25	<25	<25
PHC F2 (>C10-C16 range)	µg/L	n/v	<100	<100	<100	<100	-	<100	<100	<100	<100	<100	<100
PHC F3 (>C16-C34 range)	µg/L	n/v	<200	<200	<200	<200	-	<200	<200	<200	<200	<200	<200
PHC F4 (>C34-C50 range)	µg/L	n/v	<200	<200	<200	<200	-	<200	<200	<200	<200	<200	<200
Chromatogram to baseline at C50	none	n/v	YES	YES	YES	YES	-	YES	YES	YES	YES	YES	YES
Polychlorinated Biphenyls													
Aroclor 1242	µg/L	n/v	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Aroclor 1248	µg/L	n/v	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Aroclor 1254	µg/L	n/v	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Aroclor 1260	µg/L	n/v	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Polychlorinated Biphenyls (PCBs)	µg/L	3[C]	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05

See notes on last page

Table 8
Summary of Groundwater Analytical Results - Private Wells
Clarington Tranformer Station
Hydro One Networks Inc.

Aquifer Unit			Shallow Overburden										
Sample Date			10-Apr-15	1-Aug-14	8-Oct-14	12-Nov-14	12-Nov-14	21-Apr-15	5-Oct-15	16-Nov-15	12-Apr-16	3-Nov-16	25-Apr-17
Sample ID			WG-160900764-20150410-AD05	WG-160900764-20140801-JK11	WG-160900764-20141008-AD18	WG-160900764-20141112-AD10	WG-160900764-20141112-AD10 FILTERED	WG-160900764-20150421-JK14	WG-160900764-20151005-JK8	WG-160900764-20151116-JK	WG-160900764-20160412-JK12	WG-160900764-20161103-JK19	WG-160900764-20170425-JK21
Water Type			Raw	Raw	Treated	Treated	Treated	Raw	Raw	Raw	Raw	Raw	Raw
Sample Tap			Outside (Back house)	Outside (Driveway)	Outside (Driveway)	Outside (Driveway)	Outside (Driveway)	Outside (Driveway)	Outside (Driveway)	Outside (Back Deck)	Outside (Back Deck)	Outside (Back Deck)	Outside (Back Deck)
Treatment Type			None	Softener (not operational)	Softener	Softener (not operational)	Softener (not operational)	None	None	None	None	None	None
Sampling Company			STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC
Laboratory			MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX
Laboratory Work Order			B563627	B4D8040	B4I8196	B4L3740	B4L3740	B571211	B5K2703	B5N4851	B673025	B6N8820	B783174
Laboratory Sample ID			ABY873	WY7365	XX8289	YK9093	YK9157	ADJ096	BCM873	BIZ104	CEK236	DJO310	EGU907
Filtered	Units	ODWS	Total Metals	ab Filtered Metal	Total Metals	Total Metals	Total Metals	Total Metals	Total Metals	Total Metals	Total Metals	Total Metals	Total Metals
Semi-Volatile Organic Compounds													
Acenaphthene	µg/L	n/v	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Acenaphthylene	µg/L	n/v	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Anthracene	µg/L	n/v	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(a)anthracene	µg/L	n/v	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(a)pyrene	µg/L	0.01[B]	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Benzo(b/j)fluoranthene	µg/L	n/v	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(g,h,i)perylene	µg/L	n/v	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(k)fluoranthene	µg/L	n/v	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Biphenyl, 1,1'- (Biphenyl)	µg/L	n/v	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Bis(2-Chloroethyl)ether	µg/L	n/v	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Bis(2-Chloroisopropyl)ether	µg/L	n/v	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Bis(2-Ethylhexyl)phthalate (DEHP)	µg/L	n/v	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroaniline, 4-	µg/L	n/v	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chlorophenol, 2- (ortho-Chlorophenol)	µg/L	n/v	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Chrysene	µg/L	n/v	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Dibenzo(a,h)anthracene	µg/L	n/v	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dichlorobenzidine, 3,3'-	µg/L	n/v	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Dichlorophenol, 2,4-	µg/L	900[B] 0.3_f[D]	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Diethyl Phthalate	µg/L	n/v	<0.1	<0.1	<0.1	0.2	1.0	<0.1	<0.1	<0.1	<0.1	<0.1	0.1
Dimethyl Phthalate	µg/L	n/v	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dimethylphenol, 2,4-	µg/L	n/v	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Dinitrophenol, 2,4-	µg/L	n/v	<2	<2	<2	<2	<2	<5	<2	<2	<2	<2	<2
Dinitrotoluene, 2,4-	µg/L	n/v	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Dinitrotoluene, 2,6-	µg/L	n/v	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Fluoranthene	µg/L	n/v	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Fluorene	µg/L	n/v	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Indeno(1,2,3-cd)pyrene	µg/L	n/v	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Methylnaphthalene (Total)	µg/L	n/v	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28
Methylnaphthalene, 1-	µg/L	n/v	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Methylnaphthalene, 2-	µg/L	n/v	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Naphthalene	µg/L	n/v	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Pentachlorophenol	µg/L	60[B] 30_f[D]	<0.1	<0.1	<0.1	<0.1	<0.1	<0.5	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	µg/L	n/v	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Phenol	µg/L	n/v	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Pyrene	µg/L	n/v	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Trichlorobenzene, 1,2,4-	µg/L	n/v	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Trichlorophenol, 2,4,5-	µg/L	n/v	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Trichlorophenol, 2,4,6-	µg/L	5[B] 2_f[D]	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Volatile Organic Compounds													
Acetone	µg/L	n/v	<10	<10	<10	<10	-	<10	<10	<10	<10	<10	<10
Bromodichloromethane	µg/L	n/v	<0.5	<0.50	<0.50	<0.50	-	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Bromoform (Tribromomethane)	µg/L	n/v	<1	<1.0	<1.0	<1.0	-	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromomethane (Methyl bromide)	µg/L	n/v	<0.5	<0.50	<0.50	<0.50	-	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Carbon Tetrachloride (Tetrachloromethane)	µg/L	2[B]	<0.2	<0.20	<0.20	<0.20	-	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Chlorobenzene (Monochlorobenzene)	µg/L	80[B] 30_f[D]	<0.2	<0.20	<0.20	<0.20	-	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Chloroform (Trichloromethane)	µg/L	n/v	0.28	<0.20	<0.20	1.9	-	<0.20	0.23	<0.20	<0.20	<0.20	<0.20
Dibromochloromethane	µg/L	n/v	<0.5	<0.50	<0.50	<0.50	-	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Dichlorobenzene, 1,2-	µg/L	200[B] 3_f[D]	<0.5	<0.50	<0.50	<0.50	-	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Dichlorobenzene, 1,3-	µg/L	n/v	<0.5	<0.50	<0.50	<0.50	-	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Dichlorobenzene, 1,4-	µg/L	5[B] 1_f[D]	<0.5	<0.50	<0.50	<0.50	-	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Dichlorodifluoromethane (Freon 12)	µg/L	n/v	<1	<1.0	<1.0	<1.0	-	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Dichloroethane, 1,1-	µg/L	n/v	<0.2	<0.20	<0.20	<0.20	-	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Dichloroethane, 1,2-	µg/L	5[C]	<0.5	<0.50	<0.50	<0.50	-	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Dichloroethene, 1,1-	µg/L	14[B]	<0.2	<0.20	<0.20	<0.20	-	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Dichloroethene, cis-1,2-	µg/L	n/v	<0.5	<0.50	<0.50	<0.50	-	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Dichloroethene, trans-1,2-	µg/L	n/v	<0.5	<0.50	<0.50	<0.50	-	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Dichloropropane, 1,2-	µg/L	n/v	<0.2	<0.20	<0.20	<0.20	-	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Dichloropropene, 1,3- (sum of isomers cis + trans)	µg/L	n/v	<0.5	<0.50	<0.50	<0.50	-	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Dichloropropene, cis-1,3-	µg/L	n/v	<0.3	<0.30	<0.30	<0.30	-	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
Dichloropropene, trans-1,3-	µg/L	n/v	<0.4	<0.40	<0.40	<0.40	-	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40
Ethylene Dibromide (Dibromoethane, 1,2-)	µg/L	n/v	<0.2	<0.20	<0.20	<0.20	-	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Hexane (n-Hexane)	µg/L	n/v	<1	<1.0	<1.0	<1.0	-	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Methyl Ethyl Ketone (MEK) (2-Butanone)	µg/L	n/v	<10	<10	<10	<10	-	<10	<10	<10	<10	<10	<10
Methyl Isobutyl Ketone (MIBK)	µg/L	n/v	<5	<5.0	<5.0	<5.0	-	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Methyl tert-butyl ether (MTBE)	µg/L	15[D]	<0.5	<0.50	<0.50	<0.50	-	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Methylene Chloride (Dichloromethane)	µg/L	50[B]	<2	<2.0	<2.0	<2.0	-	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Styrene	µg/L	n/v	<0.5	<0.50	<0.50	<0.50	-	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Tetrachloroethane, 1,1,1,2-	µg/L	n/v	<0.5	<0.50	<0.50	<0.50	-	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Tetrachloroethane, 1,1,2,2-	µg/L	n/v	<0.5	<0.50	<0.50	<0.50	-	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Tetrachloroethene (PCE)	µg/L	10[B]	<0.2	<0.20	<0.20	<0.20	-	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Trichloroethane, 1,1,1-	µg/L	n/v	<0.2	<0.20	<0.20	<0.20	-	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Trichloroethane, 1,1,2-	µg/L	n/v	<0.5	<0.50	<0.50	<0.50	-	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Trichloroethene (TCE)	µg/L	5[B]	<0.2	<0.20	<0.20	<0.20	-	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Trichlorofluoromethane (Freon 11)	µg/L	n/v	<0.5	<0.50	<0.50	<0.50	-	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Trihalomethanes	µg/L	100_e[B]	<1	<0.20	<0.20	1.9	-	<1.0	<0.50	-	<0.20	<1.0	<0.20
Vinyl Chloride	µg/L	1[B]	<0.2	<0.20	<0.20	<0.20	-	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20

See notes on last page

Table 8
Summary of Groundwater Analytical Results - Private Wells
Clarington Tranformer Station
Hydro One Networks Inc.

Aquifer Unit			Shallow Overburden									
Sample Date			16-Oct-17	5-Aug-14	6-Oct-14	11-Nov-14	11-Nov-14	16-Apr-15	6-Oct-15	12-Apr-16	1-Nov-16	25-Apr-17
Sample ID			WG-160900764-20171016-JK5	WG-160900764-20140805-JK12	WG-160900764-20141006-AD02	WG-160900764-20141111-AD05	WG-160900764-20141111-AD06	WG-160900764-20150416-JK9	WG-160900764-2015106-JK11	WG-160900764-20160412-JK14	WG-160900764-20161101-JK8	WG-160900764-20170425-JK16
Water Type			Raw	Treated	Treated	Treated	Raw	Treated	Raw	Raw	Raw	Raw
Sample Tap			Outside (Back Deck)	Outside (Right house)	Outside (Right house)	Outside (Right house)	Outside (Right house)	Outside (Right house)	Outside (Right house)	Outside (Right house)	Outside (Right house)	Outside (Right house)
Treatment Type			None	Softener	Softener	Softener	None	Softener	Softener	Softener	Softener	Softener
Sampling Company			STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC
Laboratory			MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX
Laboratory Work Order			B7M9357	B4D9335	B4I6091	B4L2726	B4L2726	B567840	B5K3284	B673025	B6N7539	B783174
Laboratory Sample ID			FIP275	WZ3801	XW7256	YK4125	YK4126	ACT454	BCP439	CEK239	DJI434	EGU902
Filtered	Units	ODWS	Total Metals	Lab Filtered Metals	Total Metals	Total Metals	Total Metals	Total Metals	Total Metals	Total Metals	Total Metals	Total Metals
General Chemistry												
Acidity	mg/L	n/v	36	25	15	36	42	17	38	27	29	20
Alkalinity, Bicarbonate (as CaCO3)	mg/L	n/v	320	300	310	320	320	320	300	280	310	250
Alkalinity, Carbonate (as CaCO3)	mg/L	n/v	1.8	2.0	2.3	2.1	2.1	2.2	1.1	1.7	2.3	2.5
Alkalinity, Total (as CaCO3)	mg/L	30-500[E]	320	300	310	320	320	320	300	280	320	250
Ammonia (as N)	mg/L	n/v	<0.050	<0.050	0.067	<0.050	0.17	0.052	<0.050	<0.050	<0.050	<0.050
Anion Sum	me/L	n/v	8.39	8.03	8.17	7.87	7.86	7.87	8.69	6.37	9.00	5.52
Cation Sum	me/L	n/v	8.30	8.14	8.26	8.42	8.34	7.81	9.65	6.74	8.88	5.30
Chloride	mg/L	250[D]	45	40	36	26	24	25	59	12	63	7.8
Cyanide (Free)	µg/L	200[B]	<1	<2	<2	<2	<2	<2	<2	<2	<1	<1
Dissolved Organic Carbon (DOC)	mg/L	5[D]	0.88	0.93	1.1	1.2	1.2	1.3	1.0	1.9	1.0	2.0
Electrical Conductivity, Lab	µmhos/cm	n/v	750	800	800	750	740	740	830	600	870	520
Fluoride	mg/L	1.5_b[B]	<0.10	<0.10	<0.10	<0.10	<0.10	<0.1	<0.10	<0.10	<0.10	<0.10
Hardness (as CaCO3)	mg/L	80-100[E]	**360[E]**	**1.5[E]**	**2.6[E]**	**220[E]**	**390[E]**	**<1.0[E]**	**420[E]**	**330[E]**	**180[E]**	**1.1[E]**
Ion Balance	%	n/v	0.540	0.720	0.580	3.38	2.95	0.340	5.24	2.84	0.670	2.07
Langelier Index (at 20 C)	none	n/v	0.898	-1.44	-1.34	0.654	1.00	-1.63	0.721	0.894	0.354	-1.36
Langelier Index (at 4 C)	none	n/v	0.650	-1.69	-1.58	0.406	0.754	-1.87	0.473	0.645	0.107	-1.61
Nitrate (as N)	mg/L	10.0_d[B]	2.95	1.81	1.69	1.60	1.65	1.31	1.45	0.95	1.16	1.04
Nitrate + Nitrite (as N)	mg/L	10.0_d[B]	2.95	1.81	1.69	1.60	1.65	1.31	1.45	0.95	1.16	1.04
Nitrite (as N)	mg/L	1.0_d[B]	<0.010	<0.010	<0.010	<0.010	<0.010	<0.01	<0.010	<0.010	<0.010	<0.010
Orthophosphate(as P)	mg/L	n/v	<0.010	<0.010	<0.010	0.010	<0.010	<0.01	<0.010	<0.010	<0.010	<0.010
pH	S.U.	6.5-8.5[E]	7.78	7.85	7.89	7.85	7.83	7.86	7.58	7.81	7.89	8.03
Saturation pH (at 20 C)	none	n/v	6.88	9.29	9.23	7.20	6.83	9.48	6.86	6.91	7.53	9.39
Saturation pH (at 4 C)	none	n/v	7.13	9.54	9.48	7.45	7.08	9.73	7.11	7.16	7.78	9.64
Sulfate	mg/L	500_n[D]	21	34	39	29	29	30	41	15	39	12
Total Dissolved Solids	mg/L	500[D]	470	448	440	428	440	396	472	330	**536[D]**	342
Total Organic Carbon	mg/L	n/v	0.92	1.0	1.0	1.2	1.2	1.2	0.93	1.9	0.97	1.9
Total Suspended Solids	mg/L	n/v	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Turbidity, Lab	NTU	5_{ij}[D, E]	0.2	<0.2	<0.2	0.2	0.3	<0.2	<0.2	0.2	<0.1	0.1
Metals												
Aluminum	µg/L	100[E]	<5	<5.0	<5.0	<5.0	5.1	<5	5	6.3	<5	<5.0
Antimony	µg/L	6[C]	<0.5	<0.50	<0.50	<0.50	<0.50	<0.5	<0.5	<0.50	<0.5	<0.50
Arsenic	µg/L	25[C]	<1	<1.0	<1.0	<1.0	<1.0	<1	<1	<1.0	<1	<1.0
Barium	µg/L	1,000[B]	72	<2.0	<2.0	18	59	<2	74	29	11	<2.0
Beryllium	µg/L	n/v	<0.5	<0.50	<0.50	<0.50	<0.50	<0.5	<0.5	<0.50	<0.5	<0.50
Boron	µg/L	5,000[C]	15	15	20	17	17	15	<10	<10	15	<10
Cadmium	µg/L	5[B]	<0.1	<0.10	<0.10	<0.10	<0.10	<0.1	<0.1	<0.10	<0.1	<0.10
Calcium	µg/L	n/v	120,000	480	540	56,000	130,000	280	130,000	120,000	28,000	440
Chromium	µg/L	50[B]	<5	<5.0	<5.0	<5.0	<5.0	<5	<5.0	<5.0	<5	<5.0
Chromium (Hexavalent)	µg/L	n/v	0.69	<0.50	<0.50	<0.50	<0.50	<0.5	<0.50	<0.50	<0.50	<0.50
Cobalt	µg/L	n/v	<0.5	<0.50	<0.50	<0.50	<0.50	<0.5	<0.5	<0.50	<0.5	<0.50
Copper	µg/L	1,000[D]	14	12	14	28	8.5	13	16	37	44	19
Iron	µg/L	300[D]	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
Lead	µg/L	10_c[B]	0.55	<0.50	<0.50	0.63	0.55	<0.5	0.79	0.91	0.86	<0.50
Magnesium	µg/L	n/v	16,000	80	300	20,000	16,000	<50	23,000	9,000	28,000	<50
Manganese	µg/L	50[D]	<2	<2.0	<2.0	2.5	<2.0	<2	<2	<2.0	<2	<2.0
Mercury	µg/L	1[B]	<0.1	<0.10	<0.10	<0.10	<0.10	<0.1	<0.1	<0.10	<0.1	<0.1
Molybdenum	µg/L	n/v	<0.5	<0.50	<0.50	<0.50	<0.50	<0.5	<0.5	<0.50	<0.5	<0.50
Nickel	µg/L	n/v	<1	<1.0	<1.0	<1.0	<1.0	<1	<1	<1.0	<1	<1.0
Phosphorus	µg/L	n/v	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
Potassium	µg/L	n/v	990	230	320	3,500	1,100	210	1,800	380	4,700	<200
Selenium	µg/L	50[B]	<2	<2.0	<2.0	<2.0	<2.0	<2	<2	<2.0	<2	<2.0
Silicon	µg/L	n/v	6,900	6,200	7,100	7,100	7,100	5,000	7,100	3,600	6,200	3,100
Silver	µg/L	n/v	<0.1	<0.10	<0.10	<0.10	<0.10	<0.1	<0.1	<0.10	<0.1	<0.10
Sodium	µg/L	$200,000_g$[D] $20,000_g$[F]	**24,000[F]**	**190,000[F]**	**190,000[F]**	**89,000[F]**	11,000	**180,000[F]**	**26,000[F]**	4,100	**120,000[F]**	**120,000[F]**
Strontium	µg/L	n/v	260	<1.0	1.8	89	250	<1	270	180	45	<1.0
Thallium	µg/L	n/v	<0.05	<0.050	<0.050	<0.050	<0.050	<0.05	<0.05	<0.05	<0.05	<0.050
Titanium	µg/L	n/v	<5	<5.0	<5.0	<5.0	<5.0	<5	<5.0	<5.0	<5	<5.0
Uranium	µg/L	20[B]	0.49	3.7	3.8	2.7	2.2	2.2	5.2	1.1	5.6	0.89
Vanadium	µg/L	n/v	<0.5	<0.50	<0.50	<0.50	<0.50	<0.5	<0.5	<0.50	<0.5	<0.50
Zinc	µg/L	5,000[D]	11	<5.0	<5.0	6.9	6.5	<5	<5.0	7.6	5.2	<5.0
Zirconium	µg/L	n/v	<1	<1.0	<1.0	<1.0	<1.0	<1	<1	<1.0	<1	<1.0
Microbiological Analysis												
Escherichia coli (E.Coli)	cfu/100mL	0[A]	0	-	**8[A]**	0	0	0	**NDOGT[A]**	**NDOGT[A]**	0	0
Total Coliform Background	cfu/100mL	n/v	1,300	-	120	12	0	600	**NDOGT[A]**	**NDOGT[A]**	870	740
Total Coliforms	cfu/100mL	0[A]	**68[A]**	-	**32[A]**	0	0	**4[A]**	**NDOGT[A]**	**NDOGT[A]**	**75[A]**	**3[A]**
BTEX and Petroleum Hydrocarbons												
Benzene	µg/L	1[B]	<0.20	<0.20	<0.20	<0.20	<0.20	<0.2	<0.20	<0.20	<0.20	<0.20
Toluene	µg/L	60[B] 24[D]	<0.20	<0.20	<0.20	<0.20	<0.20	<0.2	<0.20	<0.20	<0.20	<0.20
Ethylbenzene	µg/L	140[B] 1.6[D]	<0.20	<0.20	<0.20	<0.20	<0.20	<0.2	<0.20	<0.20	<0.20	<0.20
Xylene, m & p-	µg/L	300_{s1}[D]	<0.20	<0.20	<0.20	<0.20	<0.20	<0.2	<0.20	<0.40	<0.40	<0.20
Xylene, o-	µg/L	300_{s1}[D]	<0.20	<0.20	<0.20	<0.20	<0.20	<0.2	<0.20	<0.20	<0.20	<0.20
Xylenes, Total	µg/L	90[B] 20[D]	<0.20	<0.20	<0.20	<0.20	<0.20	<0.2	<0.20	<0.40	<0.40	<0.20
PHC F1 (C6-C10 range)	µg/L	n/v	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
PHC F1 (C6-C10 range) minus BTEX	µg/L	n/v	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
PHC F2 (>C10-C16 range)	µg/L	n/v	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
PHC F3 (>C16-C34 range)	µg/L	n/v	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200
PHC F4 (>C34-C50 range)	µg/L	n/v	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200
Chromatogram to baseline at C50	none	n/v	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
Polychlorinated Biphenyls												
Aroclor 1242	µg/L	n/v	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Aroclor 1248	µg/L	n/v	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Aroclor 1254	µg/L	n/v	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Aroclor 1260	µg/L	n/v	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Polychlorinated Biphenyls (PCBs)	µg/L	3[C]	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05

See notes on last page

Table 8
Summary of Groundwater Analytical Results - Private Wells
Clarington Tranformer Station
Hydro One Networks Inc.

Aquifer Unit			Shallow Overburden									
Sample Date			16-Oct-17	5-Aug-14	6-Oct-14	11-Nov-14	11-Nov-14	16-Apr-15	6-Oct-15	12-Apr-16	1-Nov-16	25-Apr-17
Sample ID			WG-160900764-20171016-JK5	WG-160900764-20140805-JK12	WG-160900764-20141006-AD02	WG-160900764-20141111-AD05	WG-160900764-20141111-AD06	WG-160900764-20150416-JK9	WG-160900764-2015106-JK11	WG-160900764-20160412-JK14	WG-160900764-20161101-JK8	WG-160900764-20170425-JK16
Water Type			Raw	Treated	Treated	Treated	Raw	Treated	Raw	Raw	Raw	Raw
Sample Tap			Outside (Back Deck)	Outside (Right house)	Outside (Right house)	Outside (Right house)	Outside (Right house)	Outside (Right house)	Outside (Right house)	Outside (Right house)	Outside (Right house)	Outside (Right house)
Treatment Type			None	Softener	Softener	Softener	None	Softener	Softener	Softener	Softener	Softener
Sampling Company			STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC
Laboratory			MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX
Laboratory Work Order			B7M9357	B4D9335	B4I6091	B4L2726	B4L2726	B567840	B5K3284	B673025	B6N7539	B783174
Laboratory Sample ID			FIP275	WZ3801	XW7256	YK4125	YK4126	ACT454	BCP439	CEK239	DJI434	EGU902
Filtered	Units	ODWS	Total Metals	Lab Filtered Metals	Total Metals	Total Metals	Total Metals	Total Metals	Total Metals	Total Metals	Total Metals	Total Metals
Semi-Volatile Organic Compounds												
Acenaphthene	µg/L	n/v	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Acenaphthylene	µg/L	n/v	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Anthracene	µg/L	n/v	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(a)anthracene	µg/L	n/v	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(a)pyrene	µg/L	0.01[B]	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Benzo(b/j)fluoranthene	µg/L	n/v	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(g,h,i)perylene	µg/L	n/v	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(k)fluoranthene	µg/L	n/v	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Biphenyl, 1,1'- (Biphenyl)	µg/L	n/v	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Bis(2-Chloroethyl)ether	µg/L	n/v	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Bis(2-Chloroisopropyl)ether	µg/L	n/v	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Bis(2-Ethylhexyl)phthalate (DEHP)	µg/L	n/v	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroaniline, 4-	µg/L	n/v	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chlorophenol, 2- (ortho-Chlorophenol)	µg/L	n/v	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Chrysene	µg/L	n/v	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Dibenzo(a,h)anthracene	µg/L	n/v	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dichlorobenzidine, 3,3'-	µg/L	n/v	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Dichlorophenol, 2,4-	µg/L	900[B] 0.3$_f$[D]	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Diethyl Phthalate	µg/L	n/v	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.1
Dimethyl Phthalate	µg/L	n/v	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dimethylphenol, 2,4-	µg/L	n/v	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Dinitrophenol, 2,4-	µg/L	n/v	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Dinitrotoluene, 2,4-	µg/L	n/v	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Dinitrotoluene, 2,6-	µg/L	n/v	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Fluoranthene	µg/L	n/v	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Fluorene	µg/L	n/v	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Indeno(1,2,3-cd)pyrene	µg/L	n/v	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Methylnaphthalene (Total)	µg/L	n/v	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28
Methylnaphthalene, 1-	µg/L	n/v	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Methylnaphthalene, 2-	µg/L	n/v	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Naphthalene	µg/L	n/v	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Pentachlorophenol	µg/L	60[B] 30$_f$[D]	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	µg/L	n/v	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Phenol	µg/L	n/v	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Pyrene	µg/L	n/v	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Trichlorobenzene, 1,2,4-	µg/L	n/v	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Trichlorophenol, 2,4,5-	µg/L	n/v	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Trichlorophenol, 2,4,6-	µg/L	5[B] 2$_f$[D]	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Volatile Organic Compounds												
Acetone	µg/L	n/v	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Bromodichloromethane	µg/L	n/v	<0.50	<0.50	<0.50	3.4	3.6	1.1	<0.50	<0.50	2.4	<0.50
Bromoform (Tribromomethane)	µg/L	n/v	<1.0	<1.0	<1.0	1.4	1.3	1.2	<1.0	<1.0	3.9	<1.0
Bromomethane (Methyl bromide)	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.50	<0.5	<0.50	<0.50	<0.50	<0.50
Carbon Tetrachloride (Tetrachloromethane)	µg/L	2[B]	<0.20	<0.20	<0.20	<0.20	<0.20	<0.2	<0.20	<0.20	<0.20	<0.20
Chlorobenzene (Monochlorobenzene)	µg/L	80[B] 30$_f$[D]	<0.20	<0.20	<0.20	<0.20	<0.20	<0.2	<0.20	<0.20	<0.20	<0.20
Chloroform (Trichloromethane)	µg/L	n/v	<0.20	0.45	<0.20	7.4	8.3	1.1	<0.20	0.29	2.3	<0.20
Dibromochloromethane	µg/L	n/v	<0.50	<0.50	<0.50	2.6	2.6	1.8	<0.50	<0.50	4.3	<0.50
Dichlorobenzene, 1,2-	µg/L	200[B] 3$_f$[D]	<0.50	<0.50	<0.50	<0.50	<0.50	<0.5	<0.50	<0.50	<0.50	<0.50
Dichlorobenzene, 1,3-	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.50	<0.5	<0.50	<0.50	<0.50	<0.50
Dichlorobenzene, 1,4-	µg/L	5[B] 1$_f$[D]	<0.50	<0.50	<0.50	<0.50	<0.50	<0.5	<0.50	<0.50	<0.50	<0.50
Dichlorodifluoromethane (Freon 12)	µg/L	n/v	<1.0	<1.0	<1.0	<1.0	<1.0	<1	<1.0	<1.0	<1.0	<1.0
Dichloroethane, 1,1-	µg/L	n/v	<0.20	<0.20	<0.20	<0.20	<0.20	<0.2	<0.20	<0.20	<0.20	<0.20
Dichloroethane, 1,2-	µg/L	5[C]	<0.50	<0.50	<0.50	<0.50	<0.50	<0.5	<0.50	<0.50	<0.50	<0.50
Dichloroethene, 1,1-	µg/L	14[B]	<0.20	<0.20	<0.20	<0.20	<0.20	<0.2	<0.20	<0.20	<0.20	<0.20
Dichloroethene, cis-1,2-	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.50	<0.5	<0.50	<0.50	<0.50	<0.50
Dichloroethene, trans-1,2-	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.50	<0.5	<0.50	<0.50	<0.50	<0.50
Dichloropropane, 1,2-	µg/L	n/v	<0.20	<0.20	<0.20	<0.20	<0.20	<0.2	<0.20	<0.20	<0.20	<0.20
Dichloropropene, 1,3- (sum of isomers cis + trans)	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.50	<0.5	<0.50	<0.50	<0.50	<0.50
Dichloropropene, cis-1,3-	µg/L	n/v	<0.30	<0.30	<0.30	<0.30	<0.30	<0.3	<0.30	<0.30	<0.30	<0.30
Dichloropropene, trans-1,3-	µg/L	n/v	<0.40	<0.40	<0.40	<0.40	<0.40	<0.4	<0.40	<0.40	<0.40	<0.40
Ethylene Dibromide (Dibromoethane, 1,2-)	µg/L	n/v	<0.20	<0.20	<0.20	<0.20	<0.20	<0.2	<0.20	<0.20	<0.20	<0.20
Hexane (n-Hexane)	µg/L	n/v	<1.0	<1.0	<1.0	<1.0	<1.0	<1	<1.0	<1.0	<1.0	<1.0
Methyl Ethyl Ketone (MEK) (2-Butanone)	µg/L	n/v	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Methyl Isobutyl Ketone (MIBK)	µg/L	n/v	<5.0	<5.0	<5.0	<5.0	<5.0	<5	<5.0	<5.0	<5.0	<5.0
Methyl tert-butyl ether (MTBE)	µg/L	15[D]	<0.50	<0.50	<0.50	<0.50	<0.50	<0.5	<0.50	<0.50	<0.50	<0.50
Methylene Chloride (Dichloromethane)	µg/L	50[B]	<2.0	<2.0	<2.0	<2.0	<2.0	<2	<2.0	<2.0	<2.0	<2.0
Styrene	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.50	<0.5	<0.50	<0.50	<0.50	<0.50
Tetrachloroethane, 1,1,1,2-	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.50	<0.5	<0.50	<0.50	<0.50	<0.50
Tetrachloroethane, 1,1,2,2-	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.50	<0.5	<0.50	<0.50	<0.50	<0.50
Tetrachloroethene (PCE)	µg/L	10[B]	<0.20	<0.20	<0.20	<0.20	<0.20	<0.2	<0.20	<0.20	<0.20	<0.20
Trichloroethane, 1,1,1-	µg/L	n/v	<0.20	<0.20	<0.20	<0.20	<0.20	<0.2	<0.20	<0.20	<0.20	<0.20
Trichloroethane, 1,1,2-	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.50	<0.5	<0.50	<0.50	<0.50	<0.50
Trichloroethene (TCE)	µg/L	5[B]	<0.20	<0.20	<0.20	<0.20	<0.20	<0.2	<0.20	<0.20	<0.20	<0.20
Trichlorofluoromethane (Freon 11)	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.50	<0.5	<0.50	<0.50	<0.50	<0.50
Trihalomethanes	µg/L	100$_e$[B]	<1.0	0.45	<0.20	14.8	15.8	5.3	<0.20	0.29	12.9	<0.20
Vinyl Chloride	µg/L	1[B]	<0.20	<0.20	<0.20	<0.20	<0.20	<0.2	<0.20	<0.20	<0.20	<0.20

See notes on last page

Table 8
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Clarington Tranformer Station
Hydro One Networks Inc.

Aquifer Unit			Shallow Overburden									
Sample Date			17-Oct-17	5-Aug-14	8-Oct-14	20-Nov-14	21-Apr-15	6-Oct-15	7-Oct-15	12-Apr-16	1-Nov-16	24-Apr-17
Sample ID			WG-160900764-20171017-JK14	WG-160900764-20140805-JK14	WG-160900764-20141008-AD19	W6-160900764-20141120-AD17	WG-160900764-20150421-JK12	WG-160900764-2015106-JK14	WG-160900764-20151007-JK14	WG-160900764-20160412-JK10	WG-160900764-20161101-JK2	WG-160900764-20170424-JK2
Water Type			Raw	Raw	Raw	Raw	Raw	Raw	Raw	Raw	Raw	Raw
Sample Tap			Outside (Right house)	Inside (kitchen)	Outside (Back house)	Outside (Back house)	Inside (Kitchen)	Inside (Kitchen)	Inside (Kitchen)	Inside (Kitchen)	Inside (Kitchen)	Inside (Kitchen)
Treatment Type			Softener	None	None	None	None	None	None	None	None	None
Sampling Company			STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC
Laboratory			MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX
Laboratory Work Order			B7N0778	B4D9335	B4I8196	B4L9371	B571211	B5K3284	B5K5099	B673025	B6N7539	B781996
Laboratory Sample ID			FIX854	WZ3803	XX8290	YN6864	ADJ094	BCP442	BCZ446	CEK233	DJI428	EGP444
Filtered	Units	ODWS	Total Metals	Lab Filtered Metals	Total Metals	Total Metals	Total Metals	Total Metals	Total Metals	Total Metals	Total Metals	Total Metals
General Chemistry												
Acidity	mg/L	n/v	24	29	10	-	33	51	-	47	29	52
Alkalinity, Bicarbonate (as CaCO3)	mg/L	n/v	320	320	330	320	320	310	-	340	310	340
Alkalinity, Carbonate (as CaCO3)	mg/L	n/v	2.0	1.9	1.7	1.4	2.3	1.1	-	1.6	2.7	2.1
Alkalinity, Total (as CaCO3)	mg/L	30-500[E]	320	320	330	330	320	310	-	340	310	340
Ammonia (as N)	mg/L	n/v	<0.050	<0.050	<0.050	<0.050	0.064	<0.050	-	<0.050	<0.050	<0.050
Anion Sum	me/L	n/v	8.38	9.71	9.96	10.4	10.3	9.50	-	13.0	8.74	12.5
Cation Sum	me/L	n/v	8.32	9.72	9.62	10.6	9.97	9.97	-	13.3	8.84	12.5
Chloride	mg/L	250[D]	38	75	81	100	99	78	-	190	50	180
Cyanide (Free)	µg/L	200[B]	<1	<2	<2	-	<2	<2	-	<2	<1	<1
Dissolved Organic Carbon (DOC)	mg/L	5[D]	1.2	0.88	1.1	1.9	1.2	1.0	-	1.5	1.2	1.6
Electrical Conductivity, Lab	µmhos/cm	n/v	760	930	940	1,000	940	920	-	1,400	860	1,300
Fluoride	mg/L	1.5_b[B]	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	-	<0.10	<0.10	<0.10
Hardness (as CaCO3)	mg/L	80-100[E]	**280[E]**	**390[E]**	**390[E]**	**410[E]**	**390[E]**	**400[E]**	-	**490[E]**	**350[E]**	**450[E]**
Ion Balance	%	n/v	0.360	0.0800	1.77	0.840	1.48	2.45	-	1.14	0.590	0.160
Langelier Index (at 20 C)	none	n/v	0.782	0.935	0.880	0.833	1.03	0.719	-	0.953	1.04	1.02
Langelier Index (at 4 C)	none	n/v	0.534	0.687	0.632	0.586	0.784	0.471	-	0.706	0.794	0.775
Nitrate (as N)	mg/L	10.0_d[B]	0.93	4.89	4.68	4.29	4.16	4.37	-	1.11	4.46	0.39
Nitrate + Nitrite (as N)	mg/L	10.0_d[B]	0.93	4.90	4.68	4.29	4.16	4.37	-	1.11	4.46	0.39
Nitrite (as N)	mg/L	1.0_d[B]	<0.010	0.011	<0.010	0.068	<0.010	<0.010	-	<0.010	<0.010	<0.010
Orthophosphate(as P)	mg/L	n/v	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	-	<0.010	<0.010	<0.010
pH	S.U.	6.5-8.5[E]	7.82	7.79	7.74	7.67	7.88	7.59	-	7.70	7.96	7.81
Saturation pH (at 20 C)	none	n/v	7.04	6.86	6.86	6.83	6.85	6.87	-	6.75	6.92	6.79
Saturation pH (at 4 C)	none	n/v	7.29	7.11	7.11	7.08	7.10	7.12	-	7.00	7.17	7.04
Sulfate	mg/L	500_n[D]	36	40	39	36	34	36	-	33	36	37
Total Dissolved Solids	mg/L	500[D]	410	**526[D]**	**532[D]**	**558[D]**	**514[D]**	**530[D]**	-	**840[D]**	486	**774[D]**
Total Organic Carbon	mg/L	n/v	1.2	0.93	1.1	1.9	1.3	0.95	-	1.5	1.2	1.6
Total Suspended Solids	mg/L	n/v	<10	<10	<10	<10	<10	<10	-	<10	<10	<10
Turbidity, Lab	NTU	5_{ij}[D, E]	<0.1	<0.2	<0.2	0.9	<0.2	<0.2	-	<0.2	<0.1	<0.1
Metals												
Aluminum	µg/L	100[E]	7.2	<5.0	<5.0	<5.0	<5.0	5.3	-	5.5	<5	<5.0
Antimony	µg/L	6[C]	<0.5	<0.50	<0.50	<0.50	<0.50	<0.5	-	<0.50	<0.5	<0.50
Arsenic	µg/L	25[C]	<1	<1.0	<1.0	<1.0	<1.0	<1	-	<1.0	<1	<1.0
Barium	µg/L	1,000[B]	26	58	62	62	59	65	-	59	<2	63
Beryllium	µg/L	n/v	<0.5	<0.50	<0.50	<0.50	<0.50	<0.5	-	<0.50	<0.5	<0.50
Boron	µg/L	5,000[C]	16	25	23	23	22	16	-	10	18	<10
Cadmium	µg/L	5[B]	<0.1	<0.10	<0.10	<0.10	<0.10	<0.1	-	<0.10	<0.1	<0.10
Calcium	µg/L	n/v	79,000	130,000	130,000	140,000	130,000	130,000	-	180,000	110,000	160,000
Chromium	µg/L	50[B]	<5	<5.0	<5.0	<5.0	<5.0	<5.0	-	<5.0	<5	<5.0
Chromium (Hexavalent)	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-	<0.50	<0.50	<0.50
Cobalt	µg/L	n/v	<0.5	<0.50	<0.50	<0.50	<0.50	<0.5	-	<0.50	<0.5	<0.50
Copper	µg/L	1,000[D]	32	4.5	6.2	7.4	6.7	29	-	31	20	21
Iron	µg/L	300[D]	<100	<100	<100	210	<100	<100	-	<100	<100	<100
Lead	µg/L	10_c[B]	0.98	<0.50	0.50	<0.50	<0.50	<0.5	-	<0.50	<0.5	<0.50
Magnesium	µg/L	n/v	20,000	17,000	18,000	18,000	18,000	19,000	-	13,000	18,000	14,000
Manganese	µg/L	50[D]	14	5.3	4.6	21	5.0	4.7	-	4	7.2	<2.0
Mercury	µg/L	1[B]	<0.1	<0.10	<0.10	<0.1	<0.1	<0.1	-	<0.10	<0.1	<0.1
Molybdenum	µg/L	n/v	<0.5	<0.50	<0.50	<0.50	<0.50	<0.5	-	<0.50	<0.5	<0.50
Nickel	µg/L	n/v	1.4	<1.0	<1.0	<1.0	<1.0	<1	-	<1.0	2.7	<1.0
Phosphorus	µg/L	n/v	<100	<100	<100	<100	<100	<100	-	<100	<100	<100
Potassium	µg/L	n/v	2,200	1,100	1,100	1,300	1,000	1,200	-	470	1,400	440
Selenium	µg/L	50[B]	<2	<2.0	<2.0	<2.0	<2.0	<2	-	<2.0	<2	<2.0
Silicon	µg/L	n/v	6,700	6,400	6,100	6,500	6,000	6,500	-	5,600	6,100	5,000
Silver	µg/L	n/v	<0.1	<0.10	<0.10	<0.10	<0.10	<0.1	-	<0.10	<0.1	<0.10
Sodium	µg/L	200,000[D] $20{,}000_g$[F]	**62,000[F]**	**42,000[F]**	**43,000[F]**	**53,000[F]**	**48,000[F]**	**44,000[F]**	-	**79,000[F]**	**41,000[F]**	**79,000[F]**
Strontium	µg/L	n/v	120	260	270	270	280	270	-	430	180	340
Thallium	µg/L	n/v	<0.05	<0.050	<0.050	<0.050	<0.050	<0.05	-	<0.05	<0.05	<0.050
Titanium	µg/L	n/v	<5	<5.0	<5.0	<5.0	<5.0	<5.0	-	<5.0	<5	<5.0
Uranium	µg/L	20[B]	3.6	1.2	1.4	1.4	1.4	1.5	-	0.65	1.4	0.59
Vanadium	µg/L	n/v	<0.5	<0.50	<0.50	<0.50	<0.50	<0.5	-	<0.50	<0.5	<0.50
Zinc	µg/L	5,000[D]	19	<5.0	7.7	<5.0	<5.0	<5.0	-	9.5	110	66
Zirconium	µg/L	n/v	<1	<1.0	<1.0	<1.0	<1.0	<1	-	<1.0	<1	<1.0
Microbiological Analysis												
Escherichia coli (E.Coli)	cfu/100mL	0[A]	0	-	0	0	0	-	0	0	**NDOGT[A]**	0
Total Coliform Background	cfu/100mL	n/v	860	-	530	990	0	-	0	11	**NDOGT[A]**	0
Total Coliforms	cfu/100mL	0[A]	**400[A]**	-	**28[A]**	**18[A]**	0	-	0	0	**NDOGT[A]**	0
BTEX and Petroleum Hydrocarbons												
Benzene	µg/L	1[B]	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	-	<0.20	<0.20	<0.20
Toluene	µg/L	60[B] 24[D]	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	-	<0.20	<0.20	<0.20
Ethylbenzene	µg/L	140[B] 1.6[D]	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	-	<0.20	<0.20	<0.20
Xylene, m & p-	µg/L	300_{s1}[D]	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	-	<0.40	<0.40	<0.20
Xylene, o-	µg/L	300_{s1}[D]	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	-	<0.20	<0.20	<0.20
Xylenes, Total	µg/L	90[B] 20[D]	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	-	<0.40	<0.40	<0.20
PHC F1 (C6-C10 range)	µg/L	n/v	<25	<25	<25	<25	<25	<25	-	<25	<25	<25
PHC F1 (C6-C10 range) minus BTEX	µg/L	n/v	<25	<25	<25	<25	<25	<25	-	<25	<25	<25
PHC F2 (>C10-C16 range)	µg/L	n/v	<100	<100	<100	<100	<100	<100	-	<100	<100	<100
PHC F3 (>C16-C34 range)	µg/L	n/v	<200	<200	<200	<200	<200	<200	-	<200	<200	<200
PHC F4 (>C34-C50 range)	µg/L	n/v	<200	<200	<200	<200	<200	<200	-	<200	<200	<200
Chromatogram to baseline at C50	none	n/v	YES	YES	YES	YES	YES	YES	-	YES	YES	YES
Polychlorinated Biphenyls												
Aroclor 1242	µg/L	n/v	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05
Aroclor 1248	µg/L	n/v	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05
Aroclor 1254	µg/L	n/v	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05
Aroclor 1260	µg/L	n/v	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05
Polychlorinated Biphenyls (PCBs)	µg/L	3[C]	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05

See notes on last page

Table 8
Summary of Groundwater Analytical Results - Private Wells
Clarington Tranformer Station
Hydro One Networks Inc.

Aquifer Unit			Shallow Overburden									
Sample Date			17-Oct-17	5-Aug-14	8-Oct-14	20-Nov-14	21-Apr-15	6-Oct-15	7-Oct-15	12-Apr-16	1-Nov-16	24-Apr-17
Sample ID			WG-160900764-20171017-JK14	WG-160900764-20140805-JK14	WG-160900764-20141008-AD19	W6-160900764-20141120-AD17	WG-160900764-20150421-JK12	WG-160900764-2015106-JK14	WG-160900764-20151007-JK14	WG-160900764-20160412-JK10	WG-160900764-20161101-JK2	WG-160900764-20170424-JK2
Water Type			Raw	Raw	Raw	Raw	Raw	Raw	Raw	Raw	Raw	Raw
Sample Tap			Outside (Right house)	Inside (kitchen)	Outside (Back house)	Outside (Back house)	Inside (Kitchen)	Inside (Kitchen)	Inside (Kitchen)	Inside (Kitchen)	Inside (Kitchen)	Inside (Kitchen)
Treatment Type			Softener	None	None	None	None	None	None	None	None	None
Sampling Company			STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC
Laboratory			MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX
Laboratory Work Order			B7N0778	B4D9335	B4I8196	B4L9371	B571211	B5K3284	B5K5099	B673025	B6N7539	B781996
Laboratory Sample ID			FIX854	WZ3803	XX8290	YN6864	ADJ094	BCP442	BCZ446	CEK233	DJI428	EGP444
Filtered	Units	ODWS	Total Metals	Lab Filtered Metals	Total Metals	Total Metals	Total Metals	Total Metals	Total Metals	Total Metals	Total Metals	Total Metals
Semi-Volatile Organic Compounds												
Acenaphthene	µg/L	n/v	<0.2	<0.2	<0.2	-	<0.2	<0.2	-	<0.2	<0.2	<0.2
Acenaphthylene	µg/L	n/v	<0.2	<0.2	<0.2	-	<0.2	<0.2	-	<0.2	<0.2	<0.2
Anthracene	µg/L	n/v	<0.05	<0.05	<0.05	-	<0.05	<0.05	-	<0.05	<0.05	<0.05
Benzo(a)anthracene	µg/L	n/v	<0.05	<0.05	<0.05	-	<0.05	<0.05	-	<0.05	<0.05	<0.05
Benzo(a)pyrene	µg/L	0.01[B]	<0.01	<0.01	<0.01	-	<0.01	<0.01	-	<0.01	<0.01	<0.01
Benzo(b/j)fluoranthene	µg/L	n/v	<0.05	<0.05	<0.05	-	<0.05	<0.05	-	<0.05	<0.05	<0.05
Benzo(g,h,i)perylene	µg/L	n/v	<0.05	<0.05	<0.05	-	<0.05	<0.05	-	<0.05	<0.05	<0.05
Benzo(k)fluoranthene	µg/L	n/v	<0.05	<0.05	<0.05	-	<0.05	<0.05	-	<0.05	<0.05	<0.05
Biphenyl, 1,1'- (Biphenyl)	µg/L	n/v	<0.1	<0.1	<0.1	-	<0.1	<0.1	-	<0.1	<0.1	<0.1
Bis(2-Chloroethyl)ether	µg/L	n/v	<0.5	<0.5	<0.5	-	<0.5	<0.5	-	<0.5	<0.5	<0.5
Bis(2-Chloroisopropyl)ether	µg/L	n/v	<0.5	<0.5	<0.5	-	<0.5	<0.5	-	<0.5	<0.5	<0.5
Bis(2-Ethylhexyl)phthalate (DEHP)	µg/L	n/v	<1	<1	2	-	<1	<1	-	<1	<1	<1
Chloroaniline, 4-	µg/L	n/v	<1	<1	<1	-	<1	<1	-	<1	<1	<1
Chlorophenol, 2- (ortho-Chlorophenol)	µg/L	n/v	<0.1	<0.1	<0.1	-	<0.1	<0.1	-	<0.1	<0.1	<0.1
Chrysene	µg/L	n/v	<0.05	<0.05	<0.05	-	<0.05	<0.05	-	<0.05	<0.05	<0.05
Dibenzo(a,h)anthracene	µg/L	n/v	<0.1	<0.1	<0.1	-	<0.1	<0.1	-	<0.1	<0.1	<0.1
Dichlorobenzidine, 3,3'-	µg/L	n/v	<0.5	<0.5	<0.5	-	<0.5	<0.5	-	<0.5	<0.5	<0.5
Dichlorophenol, 2,4-	µg/L	900[B] 0.3$_f$[D]	<0.1	<0.1	<0.1	-	<0.1	<0.1	-	<0.1	<0.1	<0.1
Diethyl Phthalate	µg/L	n/v	<0.1	<0.1	<0.1	-	<0.1	<0.1	-	<0.1	<0.1	<0.1
Dimethyl Phthalate	µg/L	n/v	<0.1	<0.1	<0.1	-	<0.1	<0.1	-	<0.1	<0.1	<0.1
Dimethylphenol, 2,4-	µg/L	n/v	<0.5	<0.5	<0.5	-	<0.5	<0.5	-	<0.5	<0.5	<0.5
Dinitrophenol, 2,4-	µg/L	n/v	<2	<2	<2	-	<5	<2	-	<2	<2	<2
Dinitrotoluene, 2,4-	µg/L	n/v	<0.3	<0.3	<0.3	-	<0.3	<0.3	-	<0.3	<0.3	<0.3
Dinitrotoluene, 2,6-	µg/L	n/v	<0.3	<0.3	<0.3	-	<0.3	<0.3	-	<0.3	<0.3	<0.3
Fluoranthene	µg/L	n/v	<0.2	<0.2	<0.2	-	<0.2	<0.2	-	<0.2	<0.2	<0.2
Fluorene	µg/L	n/v	<0.2	<0.2	<0.2	-	<0.2	<0.2	-	<0.2	<0.2	<0.2
Indeno(1,2,3-cd)pyrene	µg/L	n/v	<0.1	<0.1	<0.1	-	<0.1	<0.1	-	<0.1	<0.1	<0.1
Methylnaphthalene (Total)	µg/L	n/v	<0.28	<0.28	<0.28	-	<0.28	<0.28	-	<0.28	<0.28	<0.28
Methylnaphthalene, 1-	µg/L	n/v	<0.2	<0.2	<0.2	-	<0.2	<0.2	-	<0.2	<0.2	<0.2
Methylnaphthalene, 2-	µg/L	n/v	<0.2	<0.2	<0.2	-	<0.2	<0.2	-	<0.2	<0.2	<0.2
Naphthalene	µg/L	n/v	<0.2	<0.2	<0.2	-	<0.2	<0.2	-	<0.2	<0.2	<0.2
Pentachlorophenol	µg/L	60[B] 30$_f$[D]	<0.1	<0.1	<0.1	-	<0.5	<0.1	-	<0.1	<0.1	<0.1
Phenanthrene	µg/L	n/v	<0.1	<0.1	<0.1	-	<0.1	<0.1	-	<0.1	<0.1	<0.1
Phenol	µg/L	n/v	<0.5	<0.5	<0.5	-	<0.5	<0.5	-	<0.5	<0.5	<0.5
Pyrene	µg/L	n/v	<0.05	<0.05	<0.05	-	<0.05	<0.05	-	<0.05	<0.05	<0.05
Trichlorobenzene, 1,2,4-	µg/L	n/v	<0.1	<0.1	<0.1	-	<0.1	<0.1	-	<0.1	<0.1	<0.1
Trichlorophenol, 2,4,5-	µg/L	n/v	<0.2	<0.2	<0.2	-	<0.2	<0.2	-	<0.2	<0.2	<0.2
Trichlorophenol, 2,4,6-	µg/L	5[B] 2$_f$[D]	<0.2	<0.2	<0.2	-	<0.2	<0.2	-	<0.2	<0.2	<0.2
Volatile Organic Compounds												
Acetone	µg/L	n/v	<10	<10	<10	<10	<10	<10	-	<10	<10	<10
Bromodichloromethane	µg/L	n/v	<0.50	<0.50	<0.50	9.5	<0.50	<0.50	-	<0.50	<0.50	<0.50
Bromoform (Tribromomethane)	µg/L	n/v	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	-	<1.0	<1.0	<1.0
Bromomethane (Methyl bromide)	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-	<0.50	<0.50	<0.50
Carbon Tetrachloride (Tetrachloromethane)	µg/L	2[B]	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	-	<0.20	<0.20	<0.20
Chlorobenzene (Monochlorobenzene)	µg/L	80[B] 30$_f$[D]	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	-	<0.20	<0.20	<0.20
Chloroform (Trichloromethane)	µg/L	n/v	0.63	<0.20	<0.20	92	0.27	<0.20	-	<0.20	<0.20	<0.20
Dibromochloromethane	µg/L	n/v	<0.50	<0.50	<0.50	2.0	<0.50	<0.50	-	<0.50	<0.50	<0.50
Dichlorobenzene, 1,2-	µg/L	200[B] 3$_f$[D]	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-	<0.50	<0.50	<0.50
Dichlorobenzene, 1,3-	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-	<0.50	<0.50	<0.50
Dichlorobenzene, 1,4-	µg/L	5[B] 1$_f$[D]	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-	<0.50	<0.50	<0.50
Dichlorodifluoromethane (Freon 12)	µg/L	n/v	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	-	<1.0	<1.0	<1.0
Dichloroethane, 1,1-	µg/L	n/v	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	-	<0.20	<0.20	<0.20
Dichloroethane, 1,2-	µg/L	5[C]	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-	<0.50	<0.50	<0.50
Dichloroethene, 1,1-	µg/L	14[B]	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	-	<0.20	<0.20	<0.20
Dichloroethene, cis-1,2-	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-	<0.50	<0.50	<0.50
Dichloroethene, trans-1,2-	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-	<0.50	<0.50	<0.50
Dichloropropane, 1,2-	µg/L	n/v	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	-	<0.20	<0.20	<0.20
Dichloropropene, 1,3- (sum of isomers cis + trans)	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-	<0.50	<0.50	<0.50
Dichloropropene, cis-1,3-	µg/L	n/v	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	-	<0.30	<0.30	<0.30
Dichloropropene, trans-1,3-	µg/L	n/v	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	-	<0.40	<0.40	<0.40
Ethylene Dibromide (Dibromoethane, 1,2-)	µg/L	n/v	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	-	<0.20	<0.20	<0.20
Hexane (n-Hexane)	µg/L	n/v	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	-	<1.0	<1.0	<1.0
Methyl Ethyl Ketone (MEK) (2-Butanone)	µg/L	n/v	<10	<10	<10	<10	<10	<10	-	<10	<10	<10
Methyl Isobutyl Ketone (MIBK)	µg/L	n/v	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	-	<5.0	<5.0	<5.0
Methyl tert-butyl ether (MTBE)	µg/L	15[D]	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-	<0.50	<0.50	<0.50
Methylene Chloride (Dichloromethane)	µg/L	50[B]	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	-	<2.0	<2.0	<2.0
Styrene	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-	<0.50	<0.50	<0.50
Tetrachloroethane, 1,1,1,2-	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-	<0.50	<0.50	<0.50
Tetrachloroethane, 1,1,2,2-	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-	<0.50	<0.50	<0.50
Tetrachloroethene (PCE)	µg/L	10[B]	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	-	<0.20	<0.20	<0.20
Trichloroethane, 1,1,1-	µg/L	n/v	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	-	<0.20	<0.20	<0.20
Trichloroethane, 1,1,2-	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-	<0.50	<0.50	<0.50
Trichloroethene (TCE)	µg/L	5[B]	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	-	<0.20	<0.20	<0.20
Trichlorofluoromethane (Freon 11)	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-	<0.50	<0.50	<0.50
Trihalomethanes	µg/L	100$_e$[B]	0.63	<0.20	<0.20	**103.5**[B]	<1.0	<0.20	-	<0.20	<1.0	<0.20
Vinyl Chloride	µg/L	1[B]	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	-	<0.20	<0.20	<0.20

See notes on last page

Table 8
Summary of Groundwater Analytical Results - Private Wells
Clarington Tranformer Station
Hydro One Networks Inc.

Aquifer Unit			Shallow Overburden									
Sample Date			16-Oct-17	21-Aug-14	7-Oct-14	10-Apr-15	5-Oct-15	28-Oct-15	12-Apr-16	1-Nov-16	24-Apr-17	17-Oct-17
Sample ID			WG-160900764-20171016-JK1	WG-160900764-20140821-HB-03	WG-160900764-20141007-AD10	WG-160900764-20150410-AD06	WG-160900764-20151005-JK1	WG-160900764-20151028-JK1	WG-160900764-20160412-JK9	WG-160900764-20161101-JK4	WG-160900764-20170424-JK4	WG-160900764-20171017-JK11
Water Type			Raw	Raw	Raw	Raw	Raw	Raw	Raw	Raw	Raw	Raw
Sample Tap			Inside (Kitchen)	Inside (Basement)	Inside (Basement)	Inside (Basement)	Inside (Basement)	Inside (Basement)	Inside (Basement)	Inside (Basement)	Inside (Basement)	Inside (Basement)
Treatment Type			None	None	None	None	None	None	None	None	None	None
Sampling Company			STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC
Laboratory			MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX
Laboratory Work Order			B7M9357	B4F2239	B4I7101	B563627	B5K2703	B5M1891	B673025	B6N7539	B781996	B7N0778
Laboratory Sample ID			FIP271	XF8148	XX2937	ABY874	BCM866	BGI094	CEK232	DJI430	EGP446	FIX851
Filtered	Units	ODWS	Total Metals	Total Metals	Total Metals	Total Metals	Total Metals	Total Metals	Total Metals	Total Metals	Total Metals	Total Metals
General Chemistry												
Acidity	mg/L	n/v	39	38	19	17	28	-	24	17	28	31
Alkalinity, Bicarbonate (as CaCO3)	mg/L	n/v	330	330	340	310	300	-	270	230	240	340
Alkalinity, Carbonate (as CaCO3)	mg/L	n/v	1.5	3.2	2.4	2.2	1.0	-	1.5	2.3	1.7	2.2
Alkalinity, Total (as CaCO3)	mg/L	30-500[E]	330	340	340	310	310	-	270	230	240	340
Ammonia (as N)	mg/L	n/v	0.099	0.060	<0.050	<0.05	0.28	-	<0.050	<0.050	<0.050	<0.050
Anion Sum	me/L	n/v	9.51	17.5	18.4	16.9	19.0	-	16.5	14.5	15.7	17.4
Cation Sum	me/L	n/v	9.33	18.2	18.2	17.4	19.5	-	16.7	14.7	16.0	17.1
Chloride	mg/L	250[D]	67	**360[D]**	**380[D]**	**350[D]**	**420[D]**	-	**370[D]**	**320[D]**	**360[D]**	**350[D]**
Cyanide (Free)	µg/L	200[B]	<1	<2	<2	<2	<2	-	<2	<1	<1	<1
Dissolved Organic Carbon (DOC)	mg/L	5[D]	1.0	1.1	1.3	2.8	1.1	-	3.8	0.81	5.0	1.5
Electrical Conductivity, Lab	µmhos/cm	n/v	860	1,900	1,900	1,900	2,000	-	1,800	1,600	1,700	1,700
Fluoride	mg/L	1.5_b[B]	<0.10	<0.10	<0.10	<0.1	<0.10	-	<0.10	<0.10	<0.10	<0.10
Hardness (as CaCO3)	mg/L	80-100[E]	**380[E]**	**390[E]**	**400[E]**	**390[E]**	**410[E]**	-	**400[E]**	**440[E]**	**380[E]**	**420[E]**
Ion Balance	%	n/v	0.970	1.73	0.400	1.51	1.51	-	0.650	0.960	1.00	0.910
Langelier Index (at 20 C)	none	n/v	0.818	1.10	0.954	0.963	0.579	-	0.799	0.866	0.858	0.949
Langelier Index (at 4 C)	none	n/v	0.570	0.849	0.708	0.717	0.333	-	0.554	0.620	0.612	0.703
Nitrate (as N)	mg/L	10.0_d[B]	4.23	1.85	2.09	2.12	3.31	-	1.89	1.95	2.26	1.99
Nitrate + Nitrite (as N)	mg/L	10.0_d[B]	4.242	1.85	2.09	2.12	3.31	-	1.89	1.95	2.26	1.99
Nitrite (as N)	mg/L	1.0_d[B]	0.012	<0.010	<0.010	<0.01	<0.010	-	<0.010	<0.010	<0.010	<0.010
Orthophosphate(as P)	mg/L	n/v	<0.010	<0.010	<0.010	<0.01	<0.010	-	0.012	<0.010	<0.010	<0.010
pH	S.U.	6.5-8.5[E]	7.68	8.01	7.88	7.89	7.55	-	7.76	8.03	7.89	7.83
Saturation pH (at 20 C)	none	n/v	6.86	6.91	6.93	6.93	6.97	-	6.97	7.17	7.03	6.88
Saturation pH (at 4 C)	none	n/v	7.11	7.16	7.18	7.17	7.21	-	7.21	7.41	7.28	7.12
Sulfate	mg/L	500_n[D]	37	30	32	25	32	-	31	32	31	25
Total Dissolved Solids	mg/L	500[D]	480	**984[D]**	**1,010[D]**	**980[D]**	**1,080[D]**	-	**1,020[D]**	**1,010[D]**	**1,020[D]**	**965[D]**
Total Organic Carbon	mg/L	n/v	1.4	1.5	1.4	2.9	1.2	-	3.8	0.76	5.1	1.5
Total Suspended Solids	mg/L	n/v	<10	<10	<10	<10	<10	-	<10	<10	<10	<10
Turbidity, Lab	NTU	5_{ij}[D, E]	<0.1	<0.2	1.2	0.2	<0.2	-	<0.2	0.3	<0.1	<0.1
Metals												
Aluminum	µg/L	100[E]	<5	<5.0	7.7	<5	<5.0	-	<5.0	7	6.3	<5
Antimony	µg/L	6[C]	<0.5	<0.50	<0.50	<0.5	<0.5	-	<0.50	<0.5	<0.50	<0.5
Arsenic	µg/L	25[C]	<1	<1.0	<1.0	<1	<1	-	<1.0	1	<1.0	<1
Barium	µg/L	1,000[B]	50	110	170	97	150	-	79	220	71	130
Beryllium	µg/L	n/v	<0.5	<0.50	<0.50	<0.5	<0.5	-	<0.50	<0.5	<0.50	<0.5
Boron	µg/L	5,000[C]	22	15	10	10	<10	-	<10	11	<10	<10
Cadmium	µg/L	5[B]	<0.1	<0.10	<0.10	<0.1	<0.1	-	<0.10	<0.1	<0.10	<0.1
Calcium	µg/L	n/v	120,000	130,000	120,000	130,000	130,000	-	150,000	100,000	140,000	140,000
Chromium	µg/L	50[B]	<5	<5.0	<5.0	<5	<5.0	-	<5.0	<5	<5.0	<5
Chromium (Hexavalent)	µg/L	n/v	<0.50	<0.50	<0.50	<0.5	<0.50	-	<0.50	<0.50	<0.50	<0.50
Cobalt	µg/L	n/v	<0.5	<0.50	<0.50	<0.5	<0.5	-	<0.50	<0.5	<0.50	<0.5
Copper	µg/L	1,000[D]	16	43	25	11	17	-	12	8.3	7.9	4.5
Iron	µg/L	300[D]	<100	<100	<100	<100	<100	-	<100	<100	<100	<100
Lead	µg/L	10_c[B]	<0.5	**16[B]**	5.5	<0.5	1.3	-	0.99	1.5	0.51	1.4
Magnesium	µg/L	n/v	17,000	16,000	22,000	14,000	22,000	-	8,800	44,000	8,200	19,000
Manganese	µg/L	50[D]	<2	<2.0	2.3	<2	<2	-	<2.0	2	<2.0	<2
Mercury	µg/L	1[B]	<0.1	<0.10	<0.10	<0.1	<0.1	-	<0.10	<0.1	<0.1	<0.1
Molybdenum	µg/L	n/v	<0.5	<0.50	<0.50	<0.5	<0.5	-	<0.50	0.51	<0.50	<0.5
Nickel	µg/L	n/v	1.1	<1.0	<1.0	<1	<1	-	<1.0	1.4	<1.0	<1
Phosphorus	µg/L	n/v	<100	<100	<100	<100	<100	-	<100	<100	<100	<100
Potassium	µg/L	n/v	1,000	1,400	2,100	2,300	2,100	-	730	2,900	910	1,700
Selenium	µg/L	50[B]	<2	<2.0	<2.0	<2	<2	-	<2.0	<2	<2.0	<2
Silicon	µg/L	n/v	6,100	6,500	7,600	4,400	7,600	-	3,100	9,100	2,800	6,700
Silver	µg/L	n/v	<0.1	<0.10	<0.10	<0.1	<0.1	-	<0.10	<0.1	<0.10	<0.1
Sodium	µg/L	$200,000_g$[D] $20,000_g$[F]	**39,000[F]**	**240,000[DF]**	**240,000[DF]**	**220,000[DF]**	**260,000[DF]**	-	**200,000[F]**	**130,000[F]**	**190,000[F]**	**200,000[F]**
Strontium	µg/L	n/v	270	310	380	320	350	-	310	560	270	360
Thallium	µg/L	n/v	<0.05	<0.050	<0.050	<0.05	<0.05	-	<0.05	<0.05	<0.050	<0.05
Titanium	µg/L	n/v	<5	<5.0	<5.0	<5	<5.0	-	<5.0	<5	<5.0	<5
Uranium	µg/L	20[B]	1.5	0.45	0.70	0.44	0.65	-	0.51	0.8	0.51	0.54
Vanadium	µg/L	n/v	<0.5	<0.50	0.53	<0.5	0.53	-	<0.50	<0.5	<0.50	<0.5
Zinc	µg/L	5,000[D]	43	13	5.3	5.1	<5.0	-	5	<5	<5.0	<5
Zirconium	µg/L	n/v	<1	<1.0	<1.0	<1	<1	-	<1.0	<1	<1.0	<1
Microbiological Analysis												
Escherichia coli (E.Coli)	cfu/100mL	0[A]	0	0	0	**1[A]**	0	-	0	**NDOGT[A]**	0	**3[A]**
Total Coliform Background	cfu/100mL	n/v	0	240	0	56	53	-	200	**NDOGT[A]**	0	460
Total Coliforms	cfu/100mL	0[A]	0	**76[A]**	0	**17[A]**	**11[A]**	-	**43[A]**	**NDOGT[A]**	0	**46[A]**
BTEX and Petroleum Hydrocarbons												
Benzene	µg/L	1[B]	<0.20	<0.20	<0.20	<0.2	<0.20	-	<0.20	<0.20	<0.20	<0.20
Toluene	µg/L	60[B] 24[D]	<0.20	<0.20	<0.20	<0.2	<0.20	-	<0.20	<0.20	<0.20	<0.20
Ethylbenzene	µg/L	140[B] 1.6[D]	<0.20	<0.20	<0.20	<0.2	<0.20	-	<0.20	<0.20	<0.20	<0.20
Xylene, m & p-	µg/L	300_{s1}[D]	<0.20	<0.20	<0.20	<0.2	<0.20	-	<0.40	<0.40	<0.20	<0.20
Xylene, o-	µg/L	300_{s1}[D]	<0.20	<0.20	<0.20	<0.2	<0.20	-	<0.20	<0.20	<0.20	<0.20
Xylenes, Total	µg/L	90[B] 20[D]	<0.20	<0.20	<0.20	<0.2	<0.20	-	<0.40	<0.40	<0.20	<0.20
PHC F1 (C6-C10 range)	µg/L	n/v	<25	<25	<25	<25	<25	-	<25	<25	<25	<25
PHC F1 (C6-C10 range) minus BTEX	µg/L	n/v	<25	<25	<25	<25	<25	-	<25	<25	<25	<25
PHC F2 (>C10-C16 range)	µg/L	n/v	<100	<100	<100	<100	<100	-	<100	<100	<100	<100
PHC F3 (>C16-C34 range)	µg/L	n/v	<200	<200	<200	<200	<200	-	<200	<200	<200	<200
PHC F4 (>C34-C50 range)	µg/L	n/v	<200	<200	<200	<200	<200	-	<200	<200	<200	<200
Chromatogram to baseline at C50	none	n/v	YES	YES	YES	YES	YES	-	YES	YES	YES	YES
Polychlorinated Biphenyls												
Aroclor 1242	µg/L	n/v	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.05
Aroclor 1248	µg/L	n/v	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.05
Aroclor 1254	µg/L	n/v	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.05
Aroclor 1260	µg/L	n/v	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.05
Polychlorinated Biphenyls (PCBs)	µg/L	3[C]	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.05

See notes on last page

Table 8
Summary of Groundwater Analytical Results - Private Wells
Clarington Tranformer Station
Hydro One Networks Inc.

Aquifer Unit			Shallow Overburden									
Sample Date			16-Oct-17	21-Aug-14	7-Oct-14	10-Apr-15	5-Oct-15	28-Oct-15	12-Apr-16	1-Nov-16	24-Apr-17	17-Oct-17
Sample ID			WG-160900764-20171016-JK1	WG-160900764-20140821-HB-03	WG-160900764-20141007-AD10	WG-160900764-20150410-AD06	WG-160900764-20151005-JK1	WG-160900764-20151028-JK1	WG-160900764-20160412-JK9	WG-160900764-20161101-JK4	WG-160900764-20170424-JK4	WG-160900764-20171017-JK11
Water Type			Raw	Raw	Raw	Raw	Raw	Raw	Raw	Raw	Raw	Raw
Sample Tap			Inside (Kitchen)	Inside (Basement)	Inside (Basement)	Inside (Basement)	Inside (Basement)	Inside (Basement)	Inside (Basement)	Inside (Basement)	Inside (Basement)	Inside (Basement)
Treatment Type			None	None	None	None	None	None	None	None	None	None
Sampling Company			STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC
Laboratory			MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX
Laboratory Work Order			B7M9357	B4F2239	B4I7101	B563627	B5K2703	B5M1891	B673025	B6N7539	B781996	B7N0778
Laboratory Sample ID			FIP271	XF8148	XX2937	ABY874	BCM866	BGI094	CEK232	DJI430	EGP446	FIX851
Filtered	Units	ODWS	Total Metals	Total Metals	Total Metals	Total Metals	Total Metals	Total Metals	Total Metals	Total Metals	Total Metals	Total Metals
Semi-Volatile Organic Compounds												
Acenaphthene	µg/L	n/v	<0.2	<0.2	<0.2	<0.2	<0.4	<0.2	<0.2	<0.2	<0.2	<0.2
Acenaphthylene	µg/L	n/v	<0.2	<0.2	<0.2	<0.2	<0.4	<0.2	<0.2	<0.2	<0.2	<0.2
Anthracene	µg/L	n/v	<0.05	<0.05	<0.05	<0.05	<0.1	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(a)anthracene	µg/L	n/v	<0.05	<0.05	<0.05	<0.05	<0.1	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(a)pyrene	µg/L	0.01[B]	<0.01	<0.01	<0.01	<0.01	***<0.02***	<0.01	<0.01	<0.01	<0.01	<0.01
Benzo(b/j)fluoranthene	µg/L	n/v	<0.05	<0.05	<0.05	<0.05	<0.1	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(g,h,i)perylene	µg/L	n/v	<0.05	<0.05	<0.05	<0.05	<0.1	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(k)fluoranthene	µg/L	n/v	<0.05	<0.05	<0.05	<0.05	<0.1	<0.05	<0.05	<0.05	<0.05	<0.05
Biphenyl, 1,1'- (Biphenyl)	µg/L	n/v	<0.1	<0.1	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1
Bis(2-Chloroethyl)ether	µg/L	n/v	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
Bis(2-Chloroisopropyl)ether	µg/L	n/v	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
Bis(2-Ethylhexyl)phthalate (DEHP)	µg/L	n/v	<1	<1	<1	<1	<2	<1	<1	<1	<1	<1
Chloroaniline, 4-	µg/L	n/v	<1	<1	<1	<1	<2	<1	<1	<1	<1	<1
Chlorophenol, 2- (ortho-Chlorophenol)	µg/L	n/v	<0.1	<0.1	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1
Chrysene	µg/L	n/v	<0.05	<0.05	<0.05	<0.05	<0.1	<0.05	<0.05	<0.05	<0.05	<0.05
Dibenzo(a,h)anthracene	µg/L	n/v	<0.1	<0.1	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1
Dichlorobenzidine, 3,3'-	µg/L	n/v	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
Dichlorophenol, 2,4-	µg/L	900[B] 0.3$_f$[D]	<0.1	<0.1	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1
Diethyl Phthalate	µg/L	n/v	<0.1	<0.1	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1
Dimethyl Phthalate	µg/L	n/v	<0.1	<0.1	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1
Dimethylphenol, 2,4-	µg/L	n/v	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
Dinitrophenol, 2,4-	µg/L	n/v	<2	<2	<2	<2	<4	<2	<2	<2	<2	<2
Dinitrotoluene, 2,4-	µg/L	n/v	<0.3	<0.3	<0.3	<0.3	<0.5	<0.3	<0.3	<0.3	<0.3	<0.3
Dinitrotoluene, 2,6-	µg/L	n/v	<0.3	<0.3	<0.3	<0.3	<0.5	<0.3	<0.3	<0.3	<0.3	<0.3
Fluoranthene	µg/L	n/v	<0.2	<0.2	<0.2	<0.2	<0.4	<0.2	<0.2	<0.2	<0.2	<0.2
Fluorene	µg/L	n/v	<0.2	<0.2	<0.2	<0.2	<0.4	<0.2	<0.2	<0.2	<0.2	<0.2
Indeno(1,2,3-cd)pyrene	µg/L	n/v	<0.1	<0.1	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1
Methylnaphthalene (Total)	µg/L	n/v	<0.28	<0.28	<0.28	<0.28	<0.57	<0.28	<0.28	<0.28	<0.28	<0.28
Methylnaphthalene, 1-	µg/L	n/v	<0.2	<0.2	<0.2	<0.2	<0.4	<0.2	<0.2	<0.2	<0.2	<0.2
Methylnaphthalene, 2-	µg/L	n/v	<0.2	<0.2	<0.2	<0.2	<0.4	<0.2	<0.2	<0.2	<0.2	<0.2
Naphthalene	µg/L	n/v	<0.2	<0.2	<0.2	<0.2	<0.4	<0.2	<0.2	<0.2	<0.2	<0.2
Pentachlorophenol	µg/L	60[B] 30$_f$[D]	<0.1	<0.1	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	µg/L	n/v	<0.1	<0.1	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1
Phenol	µg/L	n/v	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
Pyrene	µg/L	n/v	<0.05	<0.05	<0.05	<0.05	<0.1	<0.05	<0.05	<0.05	<0.05	<0.05
Trichlorobenzene, 1,2,4-	µg/L	n/v	<0.1	<0.1	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1
Trichlorophenol, 2,4,5-	µg/L	n/v	<0.2	<0.2	<0.2	<0.2	<0.4	<0.2	<0.2	<0.2	<0.2	<0.2
Trichlorophenol, 2,4,6-	µg/L	5[B] 2$_f$[D]	<0.2	<0.2	<0.2	<0.2	<0.4	<0.2	<0.2	<0.2	<0.2	<0.2
Volatile Organic Compounds												
Acetone	µg/L	n/v	<10	<10	<10	<10	<10	-	<10	<10	<10	<10
Bromodichloromethane	µg/L	n/v	<0.50	<0.50	3.6	<0.5	<0.50	-	<0.50	<0.50	12	<0.50
Bromoform (Tribromomethane)	µg/L	n/v	<1.0	<1.0	2.1	<1	<1.0	-	<1.0	<1.0	<1.0	<1.0
Bromomethane (Methyl bromide)	µg/L	n/v	<0.50	<0.50	<0.50	<0.5	<0.50	-	<0.50	<0.50	<0.50	<0.50
Carbon Tetrachloride (Tetrachloromethane)	µg/L	2[B]	<0.20	<0.20	<0.20	<0.2	<0.20	-	<0.20	<0.20	<0.20	<0.20
Chlorobenzene (Monochlorobenzene)	µg/L	80[B] 30$_f$[D]	<0.20	<0.20	<0.20	<0.2	<0.20	-	<0.20	<0.20	<0.20	<0.20
Chloroform (Trichloromethane)	µg/L	n/v	<0.20	<0.20	4.2	<0.2	<0.20	-	<0.20	0.21	62	0.42
Dibromochloromethane	µg/L	n/v	<0.50	<0.50	4.8	<0.5	<0.50	-	<0.50	<0.50	1.5	<0.50
Dichlorobenzene, 1,2-	µg/L	200[B] 3$_f$[D]	<0.50	<0.50	<0.50	<0.5	<0.50	-	<0.50	<0.50	<0.50	<0.50
Dichlorobenzene, 1,3-	µg/L	n/v	<0.50	<0.50	<0.50	<0.5	<0.50	-	<0.50	<0.50	<0.50	<0.50
Dichlorobenzene, 1,4-	µg/L	5[B] 1$_f$[D]	<0.50	<0.50	<0.50	<0.5	<0.50	-	<0.50	<0.50	<0.50	<0.50
Dichlorodifluoromethane (Freon 12)	µg/L	n/v	<1.0	<1.0	<1.0	<1	<1.0	-	<1.0	<1.0	<1.0	<1.0
Dichloroethane, 1,1-	µg/L	n/v	<0.20	<0.20	<0.20	<0.2	<0.20	-	<0.20	<0.20	<0.20	<0.20
Dichloroethane, 1,2-	µg/L	5[C]	<0.50	<0.50	<0.50	<0.5	<0.50	-	<0.50	<0.50	<0.50	<0.50
Dichloroethene, 1,1-	µg/L	14[B]	<0.20	<0.20	<0.20	<0.2	<0.20	-	<0.20	<0.20	<0.20	<0.20
Dichloroethene, cis-1,2-	µg/L	n/v	<0.50	<0.50	<0.50	<0.5	<0.50	-	<0.50	<0.50	<0.50	<0.50
Dichloroethene, trans-1,2-	µg/L	n/v	<0.50	<0.50	<0.50	<0.5	<0.50	-	<0.50	<0.50	<0.50	<0.50
Dichloropropane, 1,2-	µg/L	n/v	<0.20	<0.20	<0.20	<0.2	<0.20	-	<0.20	<0.20	<0.20	<0.20
Dichloropropene, 1,3- (sum of isomers cis + trans)	µg/L	n/v	<0.50	<0.50	<0.50	<0.5	<0.50	-	<0.50	<0.50	<0.50	<0.50
Dichloropropene, cis-1,3-	µg/L	n/v	<0.30	<0.30	<0.30	<0.3	<0.30	-	<0.30	<0.30	<0.30	<0.30
Dichloropropene, trans-1,3-	µg/L	n/v	<0.40	<0.40	<0.40	<0.4	<0.40	-	<0.40	<0.40	<0.40	<0.40
Ethylene Dibromide (Dibromoethane, 1,2-)	µg/L	n/v	<0.20	<0.20	<0.20	<0.2	<0.20	-	<0.20	<0.20	<0.20	<0.20
Hexane (n-Hexane)	µg/L	n/v	<1.0	<1.0	<1.0	<1	<1.0	-	<1.0	<1.0	<1.0	<1.0
Methyl Ethyl Ketone (MEK) (2-Butanone)	µg/L	n/v	<10	<10	<10	<10	<10	-	<10	<10	<10	<10
Methyl Isobutyl Ketone (MIBK)	µg/L	n/v	<5.0	<5.0	<5.0	<5	<5.0	-	<5.0	<5.0	<5.0	<5.0
Methyl tert-butyl ether (MTBE)	µg/L	15[D]	<0.50	<0.50	<0.50	<0.5	<0.50	-	<0.50	<0.50	<0.50	<0.50
Methylene Chloride (Dichloromethane)	µg/L	50[B]	<2.0	<2.0	<2.0	<2	<2.0	-	<2.0	<2.0	<2.0	<2.0
Styrene	µg/L	n/v	<0.50	<0.50	<0.50	<0.5	<0.50	-	<0.50	<0.50	<0.50	<0.50
Tetrachloroethane, 1,1,1,2-	µg/L	n/v	<0.50	<0.50	<0.50	<0.5	<0.50	-	<0.50	<0.50	<0.50	<0.50
Tetrachloroethane, 1,1,2,2-	µg/L	n/v	<0.50	<0.50	<0.50	<0.5	<0.50	-	<0.50	<0.50	<0.50	<0.50
Tetrachloroethene (PCE)	µg/L	10[B]	<0.20	<0.20	<0.20	<0.2	<0.20	-	<0.20	<0.20	<0.20	<0.20
Trichloroethane, 1,1,1-	µg/L	n/v	<0.20	<0.20	<0.20	<0.2	<0.20	-	<0.20	<0.20	<0.20	<0.20
Trichloroethane, 1,1,2-	µg/L	n/v	<0.50	<0.50	<0.50	<0.5	<0.50	-	<0.50	<0.50	<0.50	<0.50
Trichloroethene (TCE)	µg/L	5[B]	<0.20	<0.20	<0.20	<0.2	<0.20	-	<0.20	<0.20	<0.20	<0.20
Trichlorofluoromethane (Freon 11)	µg/L	n/v	<0.50	<0.50	<0.50	<0.5	<0.50	-	<0.50	<0.50	<0.50	<0.50
Trihalomethanes	µg/L	100$_e$[B]	<1.0	<0.20	14.7	<1	<0.20	-	<0.20	<1.0	75.5	0.42
Vinyl Chloride	µg/L	1[B]	<0.20	<0.20	<0.20	<0.2	<0.20	-	<0.20	<0.20	<0.20	<0.20

See notes on last page

Table 8
Summary of Groundwater Analytical Results - Private Wells
Clarington Tranformer Station
Hydro One Networks Inc.

Aquifer Unit			Shallow Overburden										
Sample Date			21-Aug-14	6-Oct-14	21-Apr-15	6-Oct-15	13-Apr-16	2-Nov-16	26-Apr-17	17-Oct-17	22-Sep-14	8-Oct-14	12-Nov-14
Sample ID			WG-160900764-20140821-HB-05	WG-160900764-20141006-AD05	WG-160900764-20150421-JK13	WG-160900764-2015106JK12	WG-160900764-20160413-JK18	WG-160900764-20161102-JK16	WG-160900764-20170426-JK22	WG-160900764-20171017-JK15	WG-160900764-20140922-JK01	WG-160900764-20141008-AD16	WG-160900764-20141112-AD15
Water Type			Raw	Raw	Raw	Raw	Raw	Raw	Raw	Raw	Treated	Raw	Treated
Sample Tap			Outside (Back house)	Outside (Back house)	Outside (Back house)	Outside (Back house)	Basement Laundry Tub Tap	Outside (Back house)	Outside (Back house)	Outside (Back house)	Inside (Garage)	Inside (Garage)	Inside (Garage)
Treatment Type			None	None	None	None	None	None	None	None	Softener / UV	Softener	Softener / UV / Filter
Sampling Company			STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC
Laboratory			MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX
Laboratory Work Order			B4F2239	B4I6091	B571211	B5K3284	B674120	B6N8820	B782997	B7N0778	B4H5247	B4I8196	B4L3740
Laboratory Sample ID			XF8149	XW7259	ADJ095	BCP440	CEO961	DJO306	EGU145	FIX855	XR1306	XX8287	YK9098
Filtered	Units	ODWS	Total Metals	Total Metals	Total Metals	Total Metals	Total Metals	Total Metals	Total Metals	Total Metals	Total Metals	Total Metals	Total Metals
General Chemistry													
Acidity	mg/L	n/v	57	46	36	51	31	46	31	55	19	15	31
Alkalinity, Bicarbonate (as CaCO3)	mg/L	n/v	370	390	360	390	350	390	330	390	310	350	350
Alkalinity, Carbonate (as CaCO3)	mg/L	n/v	3.3	1.9	1.9	1.6	2.4	2.5	2.8	2.1	1.8	1.7	2.5
Alkalinity, Total (as CaCO3)	mg/L	30-500[E]	370	390	360	390	350	390	330	390	320	350	350
Ammonia (as N)	mg/L	n/v	0.068	<0.050	0.18	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Anion Sum	me/L	n/v	12.1	12.2	11.7	11.7	10.2	12.6	9.75	11.6	9.22	10.2	9.56
Cation Sum	me/L	n/v	12.3	11.8	11.6	12.4	10.2	12.4	9.15	11.1	9.43	9.99	9.90
Chloride	mg/L	250[D]	130	130	130	110	89	130	79	110	74	86	67
Cyanide (Free)	µg/L	200[B]	<2	<2	<2	<2	<2	<1	<1	<1	<2	<2	<2
Dissolved Organic Carbon (DOC)	mg/L	5[D]	1.7	1.9	1.9	1.7	1.8	1.8	2.0	1.1	1.8	1.9	1.9
Electrical Conductivity, Lab	µmhos/cm	n/v	1,200	1,200	1,100	1,100	960	1,200	920	1,000	870	960	930
Fluoride	mg/L	1.5_b[B]	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Hardness (as CaCO3)	mg/L	80-100[E]	**460[E]**	**430[E]**	**430[E]**	**450[E]**	**390[E]**	**450[E]**	**360[E]**	**430[E]**	**<1.0[E]**	**430[E]**	**<1.0[E]**
Ion Balance	%	n/v	0.690	1.83	0.550	2.77	0.0500	0.780	3.20	2.19	1.13	1.15	1.73
Langelier Index (at 20 C)	none	n/v	1.20	0.954	0.963	0.875	1.04	1.01	1.05	0.983	-1.82	0.930	-1.64
Langelier Index (at 4 C)	none	n/v	0.951	0.706	0.716	0.627	0.791	0.765	0.797	0.735	-2.07	0.682	-1.89
Nitrate (as N)	mg/L	10.0_d[B]	1.92	1.92	2.28	1.40	1.37	1.31	1.52	1.48	4.88	4.38	3.89
Nitrate + Nitrite (as N)	mg/L	10.0_d[B]	1.92	1.92	2.28	1.40	1.37	1.31	1.52	1.48	4.88	4.46	3.89
Nitrite (as N)	mg/L	1.0_d[B]	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	0.074	<0.010
Orthophosphate(as P)	mg/L	n/v	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	0.014	<0.010	<0.010	<0.010	0.010
pH	S.U.	6.5-8.5[E]	7.98	7.72	7.76	7.65	7.87	7.83	7.95	7.75	7.79	7.70	7.89
Saturation pH (at 20 C)	none	n/v	6.78	6.76	6.80	6.78	6.83	6.82	6.90	6.77	9.62	6.78	9.53
Saturation pH (at 4 C)	none	n/v	7.03	7.01	7.04	7.02	7.08	7.06	7.15	7.02	9.87	7.02	9.77
Sulfate	mg/L	500_n[D]	38	35	36	38	28	40	37	33	22	25	20
Total Dissolved Solids	mg/L	500[D]	**652[D]**	**610[D]**	**576[D]**	**614[D]**	**528[D]**	**678[D]**	**512[D]**	**580[D]**	478	**588[D]**	**522[D]**
Total Organic Carbon	mg/L	n/v	1.8	1.7	1.9	1.7	1.7	1.7	1.8	1.8	1.8	1.8	1.8
Total Suspended Solids	mg/L	n/v	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Turbidity, Lab	NTU	$5_{[}$[D, E]	0.3	<0.2	<0.2	<0.2	<0.2	0.2	0.2	0.1	<0.2	<0.2	<0.2
Metals													
Aluminum	µg/L	100[E]	15	<5.0	<5.0	<5.0	<5.0	<5	<5.0	<5	51	8.4	<5.0
Antimony	µg/L	6[C]	<0.50	<0.50	<0.50	<0.5	<0.50	<0.5	<0.50	<0.5	<0.50	<0.50	<0.50
Arsenic	µg/L	25[C]	<1.0	<1.0	<1.0	<1	<1.0	<1	<1.0	<1	<1.0	<1.0	<1.0
Barium	µg/L	1,000[B]	93	91	79	92	68	110	67	86	<2.0	66	<2.0
Beryllium	µg/L	n/v	<0.50	<0.50	<0.50	<0.5	<0.50	<0.5	<0.50	<0.5	<0.50	<0.50	<0.50
Boron	µg/L	5,000[C]	26	17	16	19	13	26	15	28	24	36	38
Cadmium	µg/L	5[B]	<0.10	<0.10	<0.10	<0.1	<0.10	<0.1	<0.10	<0.1	<0.10	<0.10	<0.10
Calcium	µg/L	n/v	140,000	140,000	130,000	130,000	130,000	120,000	110,000	130,000	220	150,000	250
Chromium	µg/L	50[B]	<5.0	<5.0	<5.0	<5.0	<5.0	<5	<5.0	<5	<5.0	<5.0	<5.0
Chromium (Hexavalent)	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Cobalt	µg/L	n/v	<0.50	<0.50	<0.50	<0.5	<0.50	<0.5	<0.50	<0.5	<0.50	<0.50	<0.50
Copper	µg/L	1,000[D]	45	8.2	7.5	9.1	11	6	8.2	11	10	22	11
Iron	µg/L	300[D]	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
Lead	µg/L	10_c[B]	1.5	<0.50	0.53	<0.5	<0.50	<0.5	<0.50	<0.5	<0.50	1.0	<0.50
Magnesium	µg/L	n/v	27,000	22,000	24,000	28,000	20,000	33,000	20,000	22,000	<50	15,000	<50
Manganese	µg/L	50[D]	<2.0	<2.0	<2.0	<2	<2.0	<2	<2.0	<2	3.0	3.7	<2.0
Mercury	µg/L	1[B]	<0.10	<0.10	<0.1	<0.1	<0.10	<0.1	<0.1	<0.1	<0.10	<0.10	<0.1
Molybdenum	µg/L	n/v	<0.50	<0.50	<0.50	<0.5	<0.50	<0.5	<0.50	<0.5	<0.50	<0.50	<0.50
Nickel	µg/L	n/v	1.1	<1.0	<1.0	<1	<1.0	<1	<1.0	<1	<1.0	<1.0	<1.0
Phosphorus	µg/L	n/v	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
Potassium	µg/L	n/v	1,700	1,600	1,500	2,100	1,400	2,800	1,500	1,800	220	2,700	650
Selenium	µg/L	50[B]	<2.0	<2.0	<2.0	<2	<2.0	<2	<2.0	<2	<2.0	<2.0	<2.0
Silicon	µg/L	n/v	7,400	7,600	5,800	8,200	5,900	8,600	5,700	7,400	6,200	6,500	6,600
Silver	µg/L	n/v	<0.10	<0.10	<0.10	<0.1	<0.10	<0.1	<0.10	<0.1	<0.10	<0.10	<0.10
Sodium	µg/L	$200,000_g$[D] $20,000_g$[F]	**70,000[F]**	**71,000[F]**	**65,000[F]**	**76,000[F]**	**52,000[F]**	**78,000[F]**	**44,000[F]**	**58,000[F]**	**220,000[DF]**	**30,000[F]**	**230,000[DF]**
Strontium	µg/L	n/v	350	350	340	340	310	370	260	350	<1.0	310	<1.0
Thallium	µg/L	n/v	<0.050	<0.050	<0.050	<0.05	<0.05	<0.05	<0.050	<0.05	<0.050	<0.050	<0.050
Titanium	µg/L	n/v	<5.0	<5.0	<5.0	<5.0	<5.0	<5	<5.0	<5	<5.0	<5.0	<5.0
Uranium	µg/L	20[B]	1.0	1.0	1.1	1.4	0.89	1.8	1.2	1.1	0.27	0.57	0.45
Vanadium	µg/L	n/v	<0.50	<0.50	<0.50	<0.5	<0.50	<0.5	<0.50	<0.5	<0.50	<0.50	<0.50
Zinc	µg/L	5,000[D]	31	5.7	13	5.8	13	14	7.7	8.5	<5.0	17	<5.0
Zirconium	µg/L	n/v	<1.0	<1.0	<1.0	<1	<1.0	<1	<1.0	<1	<1.0	<1.0	<1.0
Microbiological Analysis													
Escherichia coli (E.Coli)	cfu/100mL	0[A]	0	0	0	0	0	0	0	**17[A]**	0	0	0
Total Coliform Background	cfu/100mL	n/v	190	0	160	180	47	150	25	77	0	200	0
Total Coliforms	cfu/100mL	0[A]	**46[A]**	0	**26[A]**	**6[A]**	**2[A]**	**7[A]**	**1[A]**	**32[A]**	0	**320[A]**	0
BTEX and Petroleum Hydrocarbons													
Benzene	µg/L	1[B]	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Toluene	µg/L	60[B] 24[D]	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Ethylbenzene	µg/L	140[B] 1.6[D]	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Xylene, m & p-	µg/L	300_{s1}[D]	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Xylene, o-	µg/L	300_{s1}[D]	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Xylenes, Total	µg/L	90[B] 20[D]	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
PHC F1 (C6-C10 range)	µg/L	n/v	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
PHC F1 (C6-C10 range) minus BTEX	µg/L	n/v	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
PHC F2 (>C10-C16 range)	µg/L	n/v	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
PHC F3 (>C16-C34 range)	µg/L	n/v	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200
PHC F4 (>C34-C50 range)	µg/L	n/v	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200
Chromatogram to baseline at C50	none	n/v	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
Polychlorinated Biphenyls													
Aroclor 1242	µg/L	n/v	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Aroclor 1248	µg/L	n/v	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Aroclor 1254	µg/L	n/v	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Aroclor 1260	µg/L	n/v	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Polychlorinated Biphenyls (PCBs)	µg/L	3[C]	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05

See notes on last page

Table 8
Summary of Groundwater Analytical Results - Private Wells
Clarington Tranformer Station
Hydro One Networks Inc.

Aquifer Unit			Shallow Overburden										
Sample Date			21-Aug-14	6-Oct-14	21-Apr-15	6-Oct-15	13-Apr-16	2-Nov-16	26-Apr-17	17-Oct-17	22-Sep-14	8-Oct-14	12-Nov-14
Sample ID			WG-160900764-20140821-HB-05	WG-160900764-20141006-AD05	WG-160900764-20150421-JK13	WG-160900764-2015106JK12	WG-160900764-20160413-JK18	WG-160900764-20161102-JK16	WG-160900764-20170426-JK22	WG-160900764-20171017-JK15	WG-160900764-20140922-JK01	WG-160900764-20141008-AD16	WG-160900764-20141112-AD15
Water Type			Raw	Raw	Raw	Raw	Raw	Raw	Raw	Raw	Treated	Raw	Treated
Sample Tap			Outside (Back house)	Outside (Back house)	Outside (Back house)	Outside (Back house)	Basement Laundry Tub Tap	Outside (Back house)	Outside (Back house)	Outside (Back house)	Inside (Garage)	Inside (Garage)	Inside (Garage)
Treatment Type			None	None	None	None	None	None	None	None	Softener / UV	Softener	Softener / UV / Filter
Sampling Company			STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC
Laboratory			MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX
Laboratory Work Order			B4F2239	B4I6091	B571211	B5K3284	B674120	B6N8820	B782997	B7N0778	B4H5247	B4I8196	B4L3740
Laboratory Sample ID			XF8149	XW7259	ADJ095	BCP440	CEO961	DJO306	EGU145	FIX855	XR1306	XX8287	YK9098
Filtered	Units	ODWS	Total Metals	Total Metals	Total Metals	Total Metals	Total Metals	Total Metals	Total Metals	Total Metals	Total Metals	Total Metals	Total Metals
Semi-Volatile Organic Compounds													
Acenaphthene	µg/L	n/v	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Acenaphthylene	µg/L	n/v	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Anthracene	µg/L	n/v	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(a)anthracene	µg/L	n/v	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(a)pyrene	µg/L	0.01[B]	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Benzo(b/j)fluoranthene	µg/L	n/v	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(g,h,i)perylene	µg/L	n/v	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(k)fluoranthene	µg/L	n/v	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Biphenyl, 1,1'- (Biphenyl)	µg/L	n/v	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Bis(2-Chloroethyl)ether	µg/L	n/v	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Bis(2-Chloroisopropyl)ether	µg/L	n/v	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Bis(2-Ethylhexyl)phthalate (DEHP)	µg/L	n/v	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroaniline, 4-	µg/L	n/v	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chlorophenol, 2- (ortho-Chlorophenol)	µg/L	n/v	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Chrysene	µg/L	n/v	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Dibenzo(a,h)anthracene	µg/L	n/v	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dichlorobenzidine, 3,3'-	µg/L	n/v	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Dichlorophenol, 2,4-	µg/L	900[B] 0.3_f[D]	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Diethyl Phthalate	µg/L	n/v	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.3
Dimethyl Phthalate	µg/L	n/v	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dimethylphenol, 2,4-	µg/L	n/v	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Dinitrophenol, 2,4-	µg/L	n/v	<2	<2	<5	<2	<2	<2	<2	<2	<2	<2	<2
Dinitrotoluene, 2,4-	µg/L	n/v	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Dinitrotoluene, 2,6-	µg/L	n/v	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Fluoranthene	µg/L	n/v	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Fluorene	µg/L	n/v	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Indeno(1,2,3-cd)pyrene	µg/L	n/v	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Methylnaphthalene (Total)	µg/L	n/v	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28
Methylnaphthalene, 1-	µg/L	n/v	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Methylnaphthalene, 2-	µg/L	n/v	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Naphthalene	µg/L	n/v	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Pentachlorophenol	µg/L	60[B] 30_f[D]	<0.1	<0.1	<0.5	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	µg/L	n/v	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Phenol	µg/L	n/v	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Pyrene	µg/L	n/v	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Trichlorobenzene, 1,2,4-	µg/L	n/v	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Trichlorophenol, 2,4,5-	µg/L	n/v	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Trichlorophenol, 2,4,6-	µg/L	5[B] 2_f[D]	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Volatile Organic Compounds													
Acetone	µg/L	n/v	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Bromodichloromethane	µg/L	n/v	<0.50	1.5	<0.50	<0.50	<0.50	<0.50	1.4	<0.50	<0.50	<0.50	<0.50
Bromoform (Tribromomethane)	µg/L	n/v	<1.0	15	<1.0	<1.0	<1.0	<1.0	1.5	<1.0	<1.0	<1.0	<1.0
Bromomethane (Methyl bromide)	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Carbon Tetrachloride (Tetrachloromethane)	µg/L	2[B]	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Chlorobenzene (Monochlorobenzene)	µg/L	80[B] 30_f[D]	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Chloroform (Trichloromethane)	µg/L	n/v	<0.20	0.54	<0.20	<0.20	<0.20	<0.20	0.90	<0.20	<0.20	<0.20	<0.20
Dibromochloromethane	µg/L	n/v	<0.50	5.1	<0.50	<0.50	<0.50	<0.50	2.2	<0.50	<0.50	<0.50	<0.50
Dichlorobenzene, 1,2-	µg/L	200[B] 3_f[D]	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Dichlorobenzene, 1,3-	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Dichlorobenzene, 1,4-	µg/L	5[B] 1_f[D]	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Dichlorodifluoromethane (Freon 12)	µg/L	n/v	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Dichloroethane, 1,1-	µg/L	n/v	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Dichloroethane, 1,2-	µg/L	5[C]	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Dichloroethene, 1,1-	µg/L	14[B]	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Dichloroethene, cis-1,2-	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Dichloroethene, trans-1,2-	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Dichloropropane, 1,2-	µg/L	n/v	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Dichloropropene, 1,3- (sum of isomers cis + trans)	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Dichloropropene, cis-1,3-	µg/L	n/v	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
Dichloropropene, trans-1,3-	µg/L	n/v	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40
Ethylene Dibromide (Dibromoethane, 1,2-)	µg/L	n/v	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Hexane (n-Hexane)	µg/L	n/v	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Methyl Ethyl Ketone (MEK) (2-Butanone)	µg/L	n/v	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Methyl Isobutyl Ketone (MIBK)	µg/L	n/v	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Methyl tert-butyl ether (MTBE)	µg/L	15[D]	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Methylene Chloride (Dichloromethane)	µg/L	50[B]	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Styrene	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Tetrachloroethane, 1,1,1,2-	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Tetrachloroethane, 1,1,2,2-	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Tetrachloroethene (PCE)	µg/L	10[B]	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Trichloroethane, 1,1,1-	µg/L	n/v	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Trichloroethane, 1,1,2-	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Trichloroethene (TCE)	µg/L	5[B]	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Trichlorofluoromethane (Freon 11)	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Trihalomethanes	µg/L	100_e[B]	<0.20	22.14	<1.0	<0.20	<0.20	<1.0	6.0	<1.0	<0.20	<0.20	<0.20
Vinyl Chloride	µg/L	1[B]	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20

See notes on last page

Table 8
Summary of Groundwater Analytical Results - Private Wells
Clarington Tranformer Station
Hydro One Networks Inc.

Aquifer Unit			Shallow Overburden									
Sample Date			12-Nov-14	21-Apr-15	7-Oct-15	14-Apr-16	25-Apr-17	16-Oct-17	16-Apr-15	5-Oct-15	11-Apr-16	2-Nov-16
Sample ID			WG-160900764-20141112-AD15 FILTERED	WG-160900764-20150421-JK16	WG-160900764-20151007-JK18	WG-160900764-20160414-JK21	WG-160900764-20170425-JK20	WG-160900764-20171016-JK7	WG-160900764-20150416-JK11	WG-160900764-20151005-JK3	WG-160900764-20160411-JK1	WG-160900764-20161102-JK14
Water Type			Treated	Treated	Treated	Treated	Treated	Treated	Raw	Raw	Raw	Raw
Sample Tap			Inside (Garage)	Inside (Garage)	Inside (Garage)	Inside (Garage)	Inside (Garage)	Inside (Garage)	Outside (Front house)	Outside (Front house)	Outside (Front house)	Outside (Front house)
Treatment Type			Softener / UV / Filter	Softener / UV / Filter	Softener / UV / Filter	Softener / UV / Filter	Softener / UV / Filter	Softener / UV / Filter	None	None	None	None
Sampling Company			STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC
Laboratory			MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX
Laboratory Work Order			B4L3740	B571211	B5K5099	B674120	B783174	B7M9357	B567840	B5K2703	B671945	B6N8820
Laboratory Sample ID			YK9162	ADJ098	BCZ441	CEO964	EGU906	FIP277	ACT456	BCM868	CEE706	DJO304
Filtered	Units	ODWS	etals Lab Filtered	Total Metals	Total Metals	Total Metals	Total Metals	Total Metals	Total Metals	Total Metals	Total Metals	Total Metals
General Chemistry												
Acidity	mg/L	n/v	-	26	38	38	46	43	29	57	26	52
Alkalinity, Bicarbonate (as CaCO3)	mg/L	n/v	-	310	330	310	300	370	390	370	360	350
Alkalinity, Carbonate (as CaCO3)	mg/L	n/v	-	2.0	1.4	2.7	1.8	2.2	2.9	<1.0	1.4	1.8
Alkalinity, Total (as CaCO3)	mg/L	30-500[E]	-	310	330	310	300	370	390	370	360	350
Ammonia (as N)	mg/L	n/v	-	0.068	0.12	<0.050	<0.050	<0.050	<0.05	<0.050	<0.050	<0.050
Anion Sum	me/L	n/v	-	8.99	9.15	7.81	7.76	8.68	9.22	8.55	8.80	8.43
Cation Sum	me/L	n/v	-	9.05	9.43	8.17	7.49	8.17	9.19	8.67	8.85	8.20
Chloride	mg/L	250[D]	-	61	64	30	30	24	19	11	29	14
Cyanide (Free)	µg/L	200[B]	-	<2	<2	<2	<1	<1	<2	<2	<2	<1
Dissolved Organic Carbon (DOC)	mg/L	5[D]	-	2.3	1.9	1.9	2.5	2.5	1.2	1.3	1.4	1.1
Electrical Conductivity, Lab	µmhos/cm	n/v	-	850	880	720	740	770	850	790	820	770
Fluoride	mg/L	1.5_b[B]	-	<0.10	<0.10	<0.10	<0.10	<0.10	<0.1	<0.10	<0.10	<0.10
Hardness (as CaCO3)	mg/L	80-100[E]	-	**2.7[E]**	**400[E]**	**360[E]**	**310[E]**	**330[E]**	**6.1[E]**	**410[E]**	**7.4[E]**	**340[E]**
Ion Balance	%	n/v	-	0.350	1.53	2.25	1.74	3.05	0.150	0.690	0.290	1.35
Langelier Index (at 20 C)	none	n/v	-	-1.26	0.848	1.11	0.832	0.981	-0.686	0.542	-0.903	0.791
Langelier Index (at 4 C)	none	n/v	-	-1.51	0.600	0.856	0.584	0.733	-0.934	0.294	-1.15	0.542
Nitrate (as N)	mg/L	10.0_d[B]	-	5.80	4.23	5.09	4.21	1.66	5.57	6.59	6.07	6.11
Nitrate + Nitrite (as N)	mg/L	10.0_d[B]	-	5.80	4.273	5.09	4.238	1.66	5.57	6.59	6.07	6.11
Nitrite (as N)	mg/L	1.0_d[B]	-	<0.010	0.043	<0.010	0.028	<0.010	<0.01	<0.010	<0.010	<0.010
Orthophosphate(as P)	mg/L	n/v	-	<0.010	0.011	<0.010	<0.010	0.012	0.015	<0.010	<0.010	<0.010
pH	S.U.	6.5-8.5[E]	-	7.83	7.66	7.97	7.79	7.81	7.90	7.34	7.63	7.74
Saturation pH (at 20 C)	none	n/v	-	9.09	6.82	6.87	6.96	6.83	8.58	6.80	8.54	6.95
Saturation pH (at 4 C)	none	n/v	-	9.34	7.06	7.12	7.21	7.08	8.83	7.05	8.78	7.20
Sulfate	mg/L	500_n[D]	-	27	22	18	26	22	19	20	19	24
Total Dissolved Solids	mg/L	500[D]	-	478	484	414	426	440	488	474	**508[D]**	458
Total Organic Carbon	mg/L	n/v	-	2.3	1.8	1.9	2.5	2.7	1.1	1.3	1.2	1.8
Total Suspended Solids	mg/L	n/v	-	<10	<10	<10	<10	<10	<10	<10	<10	<10
Turbidity, Lab	NTU	$5_{[D,E]}$	-	0.3	0.3	<0.2	<0.1	0.3	<0.2	<0.2	<0.2	0.8
Metals												
Aluminum	µg/L	100[E]	-	8.5	<5.0	<5.0	<5.0	21	7.7	13	6.3	11
Antimony	µg/L	6[C]	-	<0.50	<0.5	<0.50	<0.50	<0.5	<0.5	<0.5	<0.50	<0.5
Arsenic	µg/L	25[C]	-	<1.0	<1	<1.0	<1.0	<1	<1	<1	<1.0	<1
Barium	µg/L	1,000[B]	-	<2.0	29	27	44	52	<2	67	<2.0	58
Beryllium	µg/L	n/v	-	<0.50	<0.5	<0.50	<0.50	<0.5	<0.5	<0.5	<0.50	<0.5
Boron	µg/L	5,000[C]	-	29	30	25	32	44	16	<10	31	<10
Cadmium	µg/L	5[B]	-	<0.10	<0.1	<0.10	<0.10	<0.1	<0.1	<0.1	<0.10	<0.1
Calcium	µg/L	n/v	-	740	140,000	120,000	100,000	110,000	1,900	120,000	2,400	91,000
Chromium	µg/L	50[B]	-	<5.0	<5.0	<5.0	<5.0	<5	<5	<5.0	<5.0	<5
Chromium (Hexavalent)	µg/L	n/v	-	<0.50	<0.50	<0.50	<0.50	<0.50	<5	0.83	0.85	0.75
Cobalt	µg/L	n/v	-	<0.50	<0.5	<0.50	<0.50	<0.5	<0.5	<0.5	<0.50	<0.5
Copper	µg/L	1,000[D]	-	52	66	72	99	36	65	20	20	12
Iron	µg/L	300[D]	-	<100	<100	<100	<100	170	<100	<100	<100	<100
Lead	µg/L	10_c[B]	-	0.60	<0.5	<0.50	<0.50	0.81	<0.5	<0.5	<0.50	0.59
Magnesium	µg/L	n/v	-	200	15,000	13,000	12,000	11,000	290	24,000	340	28,000
Manganese	µg/L	50[D]	-	<2.0	7.6	9.2	<2.0	**60[D]**	<2	<2	<2.0	<2
Mercury	µg/L	1[B]	-	<0.1	<0.1	<0.10	<0.1	<0.1	<0.1	<0.1	<0.10	-
Molybdenum	µg/L	n/v	-	<0.50	<0.5	<0.50	<0.50	<0.5	0.73	<0.5	<0.50	<0.5
Nickel	µg/L	n/v	-	<1.0	2.4	<1.0	<1.0	<1	<1	<1	<1.0	<1
Phosphorus	µg/L	n/v	-	<100	<100	<100	<100	<100	<100	<100	<100	<100
Potassium	µg/L	n/v	-	3,400	2,500	2,300	2,300	3,100	540	1,900	<200	4,500
Selenium	µg/L	50[B]	-	<2.0	<2	<2.0	<2.0	<2	<2	<2	<2.0	<2
Silicon	µg/L	n/v	-	5,200	6,400	5,800	5,100	5,900	8,300	9,700	8,600	9,100
Silver	µg/L	n/v	-	<0.10	<0.1	<0.10	<0.10	<0.1	0.22	<0.1	<0.10	<0.1
Sodium	µg/L	$200,000_g$[D] $20,000_g$[F]	-	**200,000[F]**	**32,000[F]**	**22,000[F]**	**30,000[F]**	**34,000[F]**	**210,000[DF]**	11,000	**200,000[F]**	**28,000[F]**
Strontium	µg/L	n/v	-	1.3	190	230	220	250	4.2	270	6	190
Thallium	µg/L	n/v	-	<0.050	<0.05	<0.05	<0.050	<0.05	<0.05	<0.05	<0.05	<0.05
Titanium	µg/L	n/v	-	<5.0	<5.0	<5.0	<5.0	<5	<5	<5.0	<5.0	<5
Uranium	µg/L	20[B]	-	0.39	0.37	0.34	0.37	0.38	0.56	0.65	0.58	1.7
Vanadium	µg/L	n/v	-	<0.50	<0.5	<0.50	<0.50	<0.5	0.71	<0.5	0.66	<0.5
Zinc	µg/L	5,000[D]	-	11	49	81	43	41	19	6.7	<5.0	9.8
Zirconium	µg/L	n/v	-	<1.0	<1	<1.0	<1.0	<1	<1	<1	<1.0	<1
Microbiological Analysis												
Escherichia coli (E.Coli)	cfu/100mL	0[A]	-	0	0	0	0	**NDOGT[A]**	0	0	0	0
Total Coliform Background	cfu/100mL	n/v	-	0	0	100	89	**NDOGT[A]**	0	380	5	29
Total Coliforms	cfu/100mL	0[A]	-	0	0	**3[A]**	**10[A]**	**NDOGT[A]**	0	**7[A]**	**1[A]**	**1[A]**
BTEX and Petroleum Hydrocarbons												
Benzene	µg/L	1[B]	-	<0.20	<0.20	<0.20	<0.20	<0.20	<0.2	<0.20	<0.20	<0.20
Toluene	µg/L	60[B] 24[D]	-	<0.20	<0.20	<0.20	<0.20	<0.20	<0.2	<0.20	<0.20	<0.20
Ethylbenzene	µg/L	140[B] 1.6[D]	-	<0.20	<0.20	<0.20	<0.20	<0.20	<0.2	<0.20	<0.20	<0.20
Xylene, m & p-	µg/L	300_{s1}[D]	-	<0.20	<0.40	<0.20	<0.20	<0.20	<0.2	<0.20	<0.40	<0.20
Xylene, o-	µg/L	300_{s1}[D]	-	<0.20	<0.20	<0.20	<0.20	<0.20	<0.2	<0.20	<0.20	<0.20
Xylenes, Total	µg/L	90[B] 20[D]	-	<0.20	<0.40	<0.20	<0.20	<0.20	<0.2	<0.20	<0.40	<0.20
PHC F1 (C6-C10 range)	µg/L	n/v	-	<25	<25	<25	<25	<25	<25	<25	<25	<25
PHC F1 (C6-C10 range) minus BTEX	µg/L	n/v	-	<25	<25	<25	<25	<25	<25	<25	<25	<25
PHC F2 (>C10-C16 range)	µg/L	n/v	-	<100	<100	<100	<100	<100	<100	<100	<100	<100
PHC F3 (>C16-C34 range)	µg/L	n/v	-	<200	<200	<200	<200	<200	<200	<200	<200	<200
PHC F4 (>C34-C50 range)	µg/L	n/v	-	<200	<200	<200	<200	<200	<200	<200	<200	<200
Chromatogram to baseline at C50	none	n/v	-	YES	YES	YES	YES	YES	YES	YES	YES	YES
Polychlorinated Biphenyls												
Aroclor 1242	µg/L	n/v	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Aroclor 1248	µg/L	n/v	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Aroclor 1254	µg/L	n/v	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Aroclor 1260	µg/L	n/v	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Polychlorinated Biphenyls (PCBs)	µg/L	3[C]	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05

See notes on last page

Table 8
Summary of Groundwater Analytical Results - Private Wells
Clarington Tranformer Station
Hydro One Networks Inc.

Aquifer Unit			Shallow Overburden									
Sample Date			12-Nov-14	21-Apr-15	7-Oct-15	14-Apr-16	25-Apr-17	16-Oct-17	16-Apr-15	5-Oct-15	11-Apr-16	2-Nov-16
Sample ID			WG-160900764-20141112-AD15 FILTERED	WG-160900764-20150421-JK16	WG-160900764-20151007-JK18	WG-160900764-20160414-JK21	WG-160900764-20170425-JK20	WG-160900764-20171016-JK7	WG-160900764-20150416-JK11	WG-160900764-20151005-JK3	WG-160900764-20160411-JK1	WG-160900764-20161102-JK14
Water Type			Treated	Treated	Treated	Treated	Treated	Treated	Raw	Raw	Raw	Raw
Sample Tap			Inside (Garage)	Inside (Garage)	Inside (Garage)	Inside (Garage)	Inside (Garage)	Inside (Garage)	Outside (Front house)	Outside (Front house)	Outside (Front house)	Outside (Front house)
Treatment Type			Softener / UV / Filter	Softener / UV / Filter	Softener / UV / Filter	Softener / UV / Filter	Softener / UV / Filter	Softener / UV / Filter	None	None	None	None
Sampling Company			STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC
Laboratory			MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX
Laboratory Work Order			B4L3740	B571211	B5K5099	B674120	B783174	B7M9357	B567840	B5K2703	B671945	B6N8820
Laboratory Sample ID			YK9162	ADJ098	BCZ441	CEO964	EGU906	FIP277	ACT456	BCM868	CEE706	DJO304
Filtered	Units	ODWS	etals Lab Filtered	Total Metals	Total Metals	Total Metals	Total Metals	Total Metals	Total Metals	Total Metals	Total Metals	Total Metals
Semi-Volatile Organic Compounds												
Acenaphthene	µg/L	n/v	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Acenaphthylene	µg/L	n/v	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Anthracene	µg/L	n/v	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(a)anthracene	µg/L	n/v	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(a)pyrene	µg/L	0.01[B]	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Benzo(b/j)fluoranthene	µg/L	n/v	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(g,h,i)perylene	µg/L	n/v	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(k)fluoranthene	µg/L	n/v	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Biphenyl, 1,1'- (Biphenyl)	µg/L	n/v	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Bis(2-Chloroethyl)ether	µg/L	n/v	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Bis(2-Chloroisopropyl)ether	µg/L	n/v	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Bis(2-Ethylhexyl)phthalate (DEHP)	µg/L	n/v	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroaniline, 4-	µg/L	n/v	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chlorophenol, 2- (ortho-Chlorophenol)	µg/L	n/v	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Chrysene	µg/L	n/v	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Dibenzo(a,h)anthracene	µg/L	n/v	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dichlorobenzidine, 3,3'-	µg/L	n/v	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Dichlorophenol, 2,4-	µg/L	900[B] 0.3$_f$[D]	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Diethyl Phthalate	µg/L	n/v	0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dimethyl Phthalate	µg/L	n/v	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dimethylphenol, 2,4-	µg/L	n/v	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Dinitrophenol, 2,4-	µg/L	n/v	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Dinitrotoluene, 2,4-	µg/L	n/v	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Dinitrotoluene, 2,6-	µg/L	n/v	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Fluoranthene	µg/L	n/v	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Fluorene	µg/L	n/v	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Indeno(1,2,3-cd)pyrene	µg/L	n/v	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Methylnaphthalene (Total)	µg/L	n/v	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28
Methylnaphthalene, 1-	µg/L	n/v	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Methylnaphthalene, 2-	µg/L	n/v	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Naphthalene	µg/L	n/v	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Pentachlorophenol	µg/L	60[B] 30$_f$[D]	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	µg/L	n/v	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Phenol	µg/L	n/v	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Pyrene	µg/L	n/v	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Trichlorobenzene, 1,2,4-	µg/L	n/v	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Trichlorophenol, 2,4,5-	µg/L	n/v	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Trichlorophenol, 2,4,6-	µg/L	5[B] 2$_f$[D]	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Volatile Organic Compounds												
Acetone	µg/L	n/v	-	<10	<10	<10	<10	<10	<10	<10	<10	<10
Bromodichloromethane	µg/L	n/v	-	1.6	<0.50	<0.50	<0.50	<0.50	4.6	<0.50	<0.50	<0.50
Bromoform (Tribromomethane)	µg/L	n/v	-	<1.0	<1.0	<1.0	<1.0	<1.0	<1	<1.0	<1.0	<1.0
Bromomethane (Methyl bromide)	µg/L	n/v	-	<0.50	<0.50	<0.50	<0.50	<0.50	<0.5	<0.50	<0.50	<0.50
Carbon Tetrachloride (Tetrachloromethane)	µg/L	2[B]	-	<0.20	<0.20	<0.20	<0.20	<0.20	<0.2	<0.20	<0.20	<0.20
Chlorobenzene (Monochlorobenzene)	µg/L	80[B] 30$_f$[D]	-	<0.20	<0.20	<0.20	<0.20	<0.20	<0.2	<0.20	<0.20	<0.20
Chloroform (Trichloromethane)	µg/L	n/v	-	35	2.5	<0.20	<0.20	<0.20	22	0.86	0.25	1.4
Dibromochloromethane	µg/L	n/v	-	<0.50	<0.50	<0.50	<0.50	<0.50	1.7	<0.50	<0.50	<0.50
Dichlorobenzene, 1,2-	µg/L	200[B] 3$_f$[D]	-	<0.50	<0.50	<0.50	<0.50	<0.50	<0.5	<0.50	<0.50	<0.50
Dichlorobenzene, 1,3-	µg/L	n/v	-	<0.50	<0.50	<0.50	<0.50	<0.50	<0.5	<0.50	<0.50	<0.50
Dichlorobenzene, 1,4-	µg/L	5[B] 1$_f$[D]	-	<0.50	<0.50	<0.50	<0.50	<0.50	<0.5	<0.50	<0.50	<0.50
Dichlorodifluoromethane (Freon 12)	µg/L	n/v	-	<1.0	<1.0	<1.0	<1.0	<1.0	<1	<1.0	<1.0	<1.0
Dichloroethane, 1,1-	µg/L	n/v	-	<0.20	<0.20	<0.20	<0.20	<0.20	<0.2	<0.20	<0.20	<0.20
Dichloroethane, 1,2-	µg/L	5[C]	-	<0.50	<0.50	<0.50	<0.50	<0.50	<0.5	<0.50	<0.50	<0.50
Dichloroethene, 1,1-	µg/L	14[B]	-	<0.20	<0.20	<0.20	<0.20	<0.20	<0.2	<0.20	<0.20	<0.20
Dichloroethene, cis-1,2-	µg/L	n/v	-	<0.50	<0.50	<0.50	<0.50	<0.50	<0.5	<0.50	<0.50	<0.50
Dichloroethene, trans-1,2-	µg/L	n/v	-	<0.50	<0.50	<0.50	<0.50	<0.50	<0.5	<0.50	<0.50	<0.50
Dichloropropane, 1,2-	µg/L	n/v	-	<0.20	<0.20	<0.20	<0.20	<0.20	<0.2	<0.20	<0.20	<0.20
Dichloropropene, 1,3- (sum of isomers cis + trans)	µg/L	n/v	-	<0.50	<0.50	<0.50	<0.50	<0.50	<0.5	<0.50	<0.50	<0.50
Dichloropropene, cis-1,3-	µg/L	n/v	-	<0.30	<0.30	<0.30	<0.30	<0.30	<0.3	<0.30	<0.30	<0.30
Dichloropropene, trans-1,3-	µg/L	n/v	-	<0.40	<0.40	<0.40	<0.40	<0.40	<0.4	<0.40	<0.40	<0.40
Ethylene Dibromide (Dibromoethane, 1,2-)	µg/L	n/v	-	<0.20	<0.20	<0.20	<0.20	<0.20	<0.2	<0.20	<0.20	<0.20
Hexane (n-Hexane)	µg/L	n/v	-	<1.0	<1.0	<1.0	<1.0	<1.0	<1	<1.0	<1.0	<1.0
Methyl Ethyl Ketone (MEK) (2-Butanone)	µg/L	n/v	-	<10	<10	<10	<10	<10	<10	<10	<10	<10
Methyl Isobutyl Ketone (MIBK)	µg/L	n/v	-	<5.0	<5.0	<5.0	<5.0	<5.0	<5	<5.0	<5.0	<5.0
Methyl tert-butyl ether (MTBE)	µg/L	15[D]	-	<0.50	<0.50	<0.50	<0.50	<0.50	<0.5	<0.50	<0.50	<0.50
Methylene Chloride (Dichloromethane)	µg/L	50[B]	-	<2.0	<2.0	<2.0	<2.0	<2.0	<2	<2.0	<2.0	<2.0
Styrene	µg/L	n/v	-	<0.50	<0.50	<0.50	<0.50	<0.50	<0.5	<0.50	<0.50	<0.50
Tetrachloroethane, 1,1,1,2-	µg/L	n/v	-	<0.50	<0.50	<0.50	<0.50	<0.50	<0.5	<0.50	<0.50	<0.50
Tetrachloroethane, 1,1,2,2-	µg/L	n/v	-	<0.50	<0.50	<0.50	<0.50	<0.50	<0.5	<0.50	<0.50	<0.50
Tetrachloroethene (PCE)	µg/L	10[B]	-	<0.20	<0.20	<0.20	<0.20	<0.20	<0.2	<0.20	<0.20	<0.20
Trichloroethane, 1,1,1-	µg/L	n/v	-	<0.20	<0.20	<0.20	<0.20	<0.20	<0.2	<0.20	<0.20	<0.20
Trichloroethane, 1,1,2-	µg/L	n/v	-	<0.50	<0.50	<0.50	<0.50	<0.50	<0.5	<0.50	<0.50	<0.50
Trichloroethene (TCE)	µg/L	5[B]	-	0.79	<0.20	<0.20	<0.20	<0.20	<0.2	<0.20	<0.20	<0.20
Trichlorofluoromethane (Freon 11)	µg/L	n/v	-	<0.50	<0.50	<0.50	<0.50	<0.50	<0.5	<0.50	<0.50	<0.50
Trihalomethanes	µg/L	100$_e$[B]	-	37	<0.50	<0.20	<0.20	<1.0	28	<0.50	0.25	1.4
Vinyl Chloride	µg/L	1[B]	-	<0.20	<0.20	<0.20	<0.20	<0.20	<0.2	<0.20	<0.20	<0.20

See notes on last page

Table 8
Summary of Groundwater Analytical Results - Private Wells
Clarington Tranformer Station
Hydro One Networks Inc.

Aquifer Unit			Shallow Overburden									
Sample Date			25-Apr-17	18-May-17	18-Oct-17	21-Apr-15	6-Oct-15	12-Apr-16	24-Apr-17	16-Oct-17	24-Apr-17	17-Oct-17
Sample ID			WG-160900764-20170425-JK19	WG-160900764-20170518-JK1	WG-160900764-20171018-JK20	WG-160900764-20150421-JK15	WG-160900764-2015106-JK13	WG-160900764-20160412-JK13	WG-160900764-20170424-JK9	WG-160900764-20171016-JK6	WG-160900764-20170424-JK1	WG-160900764-20171017-JK10
Water Type			Raw	Raw	Raw	Treated	Treated	Treated	Treated	Treated	Raw	Raw
Sample Tap			Outside (Front house)	Outside (Front house)	Outside (Front house)	Outside (Side house)	Outside (Side house)	Outside (Side house)	Outside (Side house)	Outside (Side house)	Outside Tap	Outside Tap
Treatment Type			None	None	None	Softener/UV	Softener/UV	Softener/UV	Softener/UV	Softener/UV	None	None
Sampling Company			STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC
Laboratory			MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX
Laboratory Work Order			B783174	B7A3600	B7N2030	B571211	B5K3284	B673025	B781996	B7M9357	B781996	B7N0778
Laboratory Sample ID			EGU905	EKM286	FJE417	ADJ097	BCP441	CEK238	EGP451	FIP276	EGP443	FIX850
Filtered	Units	ODWS	Total Metals	Total Metals	Total Metals	Total Metals	Total Metals	Total Metals	Total Metals	Total Metals	Total Metals	Total Metals
General Chemistry												
Acidity	mg/L	n/v	56	-	38	25	35	27	24	34	61	79
Alkalinity, Bicarbonate (as CaCO3)	mg/L	n/v	360	-	350	290	310	300	270	320	350	410
Alkalinity, Carbonate (as CaCO3)	mg/L	n/v	1.9	-	2.3	1.9	1.3	1.9	1.9	2.0	1.8	1.5
Alkalinity, Total (as CaCO3)	mg/L	30-500[E]	360	-	350	290	310	300	270	320	350	410
Ammonia (as N)	mg/L	n/v	<0.050	-	<0.050	0.086	<0.050	<0.050	<0.050	0.40	<0.050	<0.050
Anion Sum	me/L	n/v	8.84	-	8.41	8.71	7.15	9.91	10.1	7.47	12.2	14.2
Cation Sum	me/L	n/v	8.98	-	7.83	8.64	7.42	10.4	10.1	6.99	12.1	14.3
Chloride	mg/L	250[D]	24	-	17	88	11	130	160	14	96	150
Cyanide (Free)	µg/L	200[B]	1	-	<1	<2	<2	<2	<1	<1	<1	<1
Dissolved Organic Carbon (DOC)	mg/L	5[D]	2.1	-	1.2	1.3	1.0	1.4	1.5	1.1	2.3	2.2
Electrical Conductivity, Lab	µmhos/cm	n/v	840	-	780	820	650	970	1,100	630	1,200	1,300
Fluoride	mg/L	1.5$_b$[B]	<0.10	-	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Hardness (as CaCO3)	mg/L	80-100[E]	**7.0[E]**	-	**9.2[E]**	**330[E]**	**350[E]**	**370[E]**	**330[E]**	**320[E]**	**460[E]**	**570[E]**
Ion Balance	%	n/v	0.790	-	3.59	0.390	1.80	2.30	0.0900	3.33	0.480	0.260
Langelier Index (at 20 C)	none	n/v	-0.779	-	-0.584	0.910	0.774	0.965	0.907	0.918	1.01	0.977
Langelier Index (at 4 C)	none	n/v	-1.03	-	-0.832	0.662	0.526	0.718	0.660	0.669	0.762	0.730
Nitrate (as N)	mg/L	10.0$_d$[B]	6.20	-	6.81	0.94	3.29	0.24	0.26	2.44	8.82	2.95
Nitrate + Nitrite (as N)	mg/L	10.0$_d$[B]	6.2	-	6.81	0.94	3.29	0.24	0.26	2.44	8.82	2.96
Nitrite (as N)	mg/L	1.0$_d$[B]	<0.010	-	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	0.010
Orthophosphate(as P)	mg/L	n/v	<0.010	-	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
pH	S.U.	6.5-8.5[E]	7.76	-	7.84	7.83	7.66	7.83	7.89	7.82	7.73	7.60
Saturation pH (at 20 C)	none	n/v	8.54	-	8.43	6.92	6.89	6.87	6.98	6.90	6.72	6.62
Saturation pH (at 4 C)	none	n/v	8.78	-	8.68	7.17	7.14	7.11	7.23	7.15	6.97	6.87
Sulfate	mg/L	500$_n$[D]	22	-	20	14	22	14	13	19	85	81
Total Dissolved Solids	mg/L	500[D]	464	-	440	464	380	**548[D]**	**632[D]**	365	**518[D]**	**855[D]**
Total Organic Carbon	mg/L	n/v	2.1	-	1.2	1.3	1.0	1.4	1.4	1.1	2.5	2.2
Total Suspended Solids	mg/L	n/v	<10	-	<10	<10	<10	<10	<10	<10	19	<10
Turbidity, Lab	NTU	5$_{ij}$[D, E]	<0.1	-	0.2	<0.2	<0.2	<0.2	0.3	0.4	<0.1	<0.1
Metals												
Aluminum	µg/L	100[E]	6.2	-	7.7	<5.0	<5.0	<5.0	<5.0	11	7.7	<5
Antimony	µg/L	6[C]	<0.50	-	<0.5	<0.50	<0.5	<0.50	<0.50	<0.5	<0.50	<0.5
Arsenic	µg/L	25[C]	<1.0	-	<1	<1.0	<1	<1.0	<1.0	<1	<1.0	<1
Barium	µg/L	1,000[B]	<2.0	-	<2	29	47	32	33	47	83	110
Beryllium	µg/L	n/v	<0.50	-	<0.5	<0.50	<0.5	<0.50	<0.50	<0.5	<0.50	<0.5
Boron	µg/L	5,000[C]	11	-	10	12	<10	11	12	<10	18	21
Cadmium	µg/L	5[B]	<0.10	-	<0.1	<0.10	<0.1	<0.10	<0.10	<0.1	<0.10	<0.1
Calcium	µg/L	n/v	2,300	-	3,000	120,000	120,000	140,000	120,000	110,000	160,000	200,000
Chromium	µg/L	50[B]	<5.0	-	<5	<5.0	<5.0	<5.0	<5.0	<5	<5.0	<5
Chromium (Hexavalent)	µg/L	n/v	<2.5	-	0.92	<0.50	0.71	<0.50	<0.50	0.56	<0.50	<0.50
Cobalt	µg/L	n/v	<0.50	-	<0.5	<0.50	<0.5	<0.50	<0.50	<0.5	<0.50	<0.5
Copper	µg/L	1,000[D]	55	-	11	3.3	5.1	7.3	28	19	35	13
Iron	µg/L	300[D]	<100	-	<100	<100	<100	<100	<100	<100	<100	<100
Lead	µg/L	10$_c$[B]	<0.50	-	<0.5	<0.50	<0.5	<0.50	1.3	<0.5	<0.50	<0.5
Magnesium	µg/L	n/v	300	-	390	8,300	16,000	7,600	7,200	13,000	15,000	18,000
Manganese	µg/L	50[D]	<2.0	-	<2	<2.0	<2	<2.0	<2.0	3.6	<2.0	<2
Mercury	µg/L	1[B]	<0.1	-	<0.1	<0.1	<0.1	<0.10	<0.1	<0.1	<0.1	<0.1
Molybdenum	µg/L	n/v	<0.50	-	<0.5	<0.50	<0.5	<0.50	<0.50	<0.5	<0.50	<0.5
Nickel	µg/L	n/v	<1.0	-	<1	<1.0	<1	<1.0	<1.0	<1	<1.0	<1
Phosphorus	µg/L	n/v	<100	-	<100	<100	<100	<100	<100	<100	<100	<100
Potassium	µg/L	n/v	<200	-	370	330	750	250	270	540	1,100	1,400
Selenium	µg/L	50[B]	<2.0	-	<2	<2.0	<2	<2.0	<2.0	<2	<2.0	<2
Silicon	µg/L	n/v	8,300	-	8,800	3,900	6,800	3,800	3,400	6,400	3,900	5,000
Silver	µg/L	n/v	0.96	-	<0.1	<0.10	<0.1	<0.10	<0.10	<0.1	<0.10	<0.1
Sodium	µg/L	200,000$_g$[D] 20,000$_g$[F]	**200,000[F]**	-	**180,000[F]**	**47,000[F]**	8,200	**69,000[F]**	**79,000[F]**	12,000	**65,000[F]**	**66,000[F]**
Strontium	µg/L	n/v	5.2	-	7.3	230	210	260	250	230	300	360
Thallium	µg/L	n/v	<0.050	-	<0.05	<0.050	<0.05	<0.05	<0.050	<0.05	<0.050	<0.05
Titanium	µg/L	n/v	<5.0	-	<5	<5.0	<5.0	<5.0	<5.0	<5	<5.0	<5
Uranium	µg/L	20[B]	0.38	-	0.58	0.27	0.38	0.29	0.26	0.32	0.81	0.92
Vanadium	µg/L	n/v	<0.50	-	<0.5	<0.50	<0.5	<0.50	<0.50	<0.5	<0.50	<0.5
Zinc	µg/L	5,000[D]	16	-	<5	<5.0	10	6.8	25	30	21	<5
Zirconium	µg/L	n/v	<1.0	-	<1	<1.0	<1	<1.0	<1.0	<1	<1.0	<1
Microbiological Analysis												
Escherichia coli (E.Coli)	cfu/100mL	0[A]	0	-	**NDOGT[A]**	0	0	0	0	**NDOGT[A]**	0	**1[A]**
Total Coliform Background	cfu/100mL	n/v	0	-	**NDOGT[A]**	41	460	92	35	**NDOGT[A]**	82	300
Total Coliforms	cfu/100mL	0[A]	0	-	**NDOGT[A]**	**1[A]**	**21[A]**	**5[A]**	0	**NDOGT[A]**	**59[A]**	**95[A]**
BTEX and Petroleum Hydrocarbons												
Benzene	µg/L	1[B]	<0.20	-	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Toluene	µg/L	60[B] 24[D]	<0.20	-	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Ethylbenzene	µg/L	140[B] 1.6[D]	<0.20	-	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Xylene, m & p-	µg/L	300$_{s1}$[D]	<0.20	-	<0.20	<0.20	<0.20	<0.40	<0.20	<0.20	<0.20	<0.20
Xylene, o-	µg/L	300$_{s1}$[D]	<0.20	-	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Xylenes, Total	µg/L	90[B] 20[D]	<0.20	-	<0.20	<0.20	<0.20	<0.40	<0.20	<0.20	<0.20	<0.20
PHC F1 (C6-C10 range)	µg/L	n/v	40 VX	-	<25	<25	<25	<25	<25	<25	<25	<25
PHC F1 (C6-C10 range) minus BTEX	µg/L	n/v	40	-	<25	<25	<25	<25	<25	<25	<25	<25
PHC F2 (>C10-C16 range)	µg/L	n/v	<100	-	<100	<100	<100	<100	<100	<100	<100	<100
PHC F3 (>C16-C34 range)	µg/L	n/v	<200	-	<200	<200	<200	<200	<200	<200	<200	<200
PHC F4 (>C34-C50 range)	µg/L	n/v	<200	-	<200	<200	<200	<200	<200	<200	<200	<200
Chromatogram to baseline at C50	none	n/v	YES	-	YES	YES	YES	YES	YES	YES	YES	YES
Polychlorinated Biphenyls												
Aroclor 1242	µg/L	n/v	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Aroclor 1248	µg/L	n/v	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Aroclor 1254	µg/L	n/v	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Aroclor 1260	µg/L	n/v	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Polychlorinated Biphenyls (PCBs)	µg/L	3[C]	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05

See notes on last page

Table 8
Summary of Groundwater Analytical Results - Private Wells
Clarington Tranformer Station
Hydro One Networks Inc.

Aquifer Unit			Shallow Overburden									
Sample Date			25-Apr-17	18-May-17	18-Oct-17	21-Apr-15	6-Oct-15	12-Apr-16	24-Apr-17	16-Oct-17	24-Apr-17	17-Oct-17
Sample ID			WG-160900764-20170425-JK19	WG-160900764-20170518-JK1	WG-160900764-20171018-JK20	WG-160900764-20150421-JK15	WG-160900764-2015106-JK13	WG-160900764-20160412-JK13	WG-160900764-20170424-JK9	WG-160900764-20171016-JK6	WG-160900764-20170424-JK1	WG-160900764-20171017-JK10
Water Type			Raw	Raw	Raw	Treated	Treated	Treated	Treated	Treated	Raw	Raw
Sample Tap			Outside (Front house)	Outside (Front house)	Outside (Front house)	Outside (Side house)	Outside (Side house)	Outside (Side house)	Outside (Side house)	Outside (Side house)	Outside Tap	Outside Tap
Treatment Type			None	None	None	Softener/UV	Softener/UV	Softener/UV	Softener/UV	Softener/UV	None	None
Sampling Company			STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC
Laboratory			MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX
Laboratory Work Order			B783174	B7A3600	B7N2030	B571211	B5K3284	B673025	B781996	B7M9357	B781996	B7N0778
Laboratory Sample ID			EGU905	EKM286	FJE417	ADJ097	BCP441	CEK238	EGP451	FIP276	EGP443	FIX850
Filtered	Units	ODWS	Total Metals	Total Metals	Total Metals	Total Metals	Total Metals	Total Metals	Total Metals	Total Metals	Total Metals	Total Metals
Semi-Volatile Organic Compounds												
Acenaphthene	µg/L	n/v	<0.2	-	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Acenaphthylene	µg/L	n/v	<0.2	-	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Anthracene	µg/L	n/v	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(a)anthracene	µg/L	n/v	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(a)pyrene	µg/L	0.01[B]	<0.01	-	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Benzo(b/j)fluoranthene	µg/L	n/v	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(g,h,i)perylene	µg/L	n/v	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(k)fluoranthene	µg/L	n/v	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Biphenyl, 1,1'- (Biphenyl)	µg/L	n/v	<0.1	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Bis(2-Chloroethyl)ether	µg/L	n/v	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Bis(2-Chloroisopropyl)ether	µg/L	n/v	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Bis(2-Ethylhexyl)phthalate (DEHP)	µg/L	n/v	<1	-	<1	<1	<1	<1	<1	<1	<1	<1
Chloroaniline, 4-	µg/L	n/v	<1	-	<1	<1	<1	<1	<1	<1	<1	<1
Chlorophenol, 2- (ortho-Chlorophenol)	µg/L	n/v	<0.1	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Chrysene	µg/L	n/v	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Dibenzo(a,h)anthracene	µg/L	n/v	<0.1	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dichlorobenzidine, 3,3'-	µg/L	n/v	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Dichlorophenol, 2,4-	µg/L	900[B] 0.3$_f$[D]	<0.1	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Diethyl Phthalate	µg/L	n/v	<0.1	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dimethyl Phthalate	µg/L	n/v	<0.1	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dimethylphenol, 2,4-	µg/L	n/v	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Dinitrophenol, 2,4-	µg/L	n/v	<2	-	<2	<5	<2	<2	<2	<2	<2	<2
Dinitrotoluene, 2,4-	µg/L	n/v	<0.3	-	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Dinitrotoluene, 2,6-	µg/L	n/v	<0.3	-	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Fluoranthene	µg/L	n/v	<0.2	-	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Fluorene	µg/L	n/v	<0.2	-	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Indeno(1,2,3-cd)pyrene	µg/L	n/v	<0.1	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Methylnaphthalene (Total)	µg/L	n/v	<0.28	-	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28
Methylnaphthalene, 1-	µg/L	n/v	<0.2	-	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Methylnaphthalene, 2-	µg/L	n/v	<0.2	-	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Naphthalene	µg/L	n/v	<0.2	-	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Pentachlorophenol	µg/L	60[B] 30$_f$[D]	<0.1	-	<0.1	<0.5	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	µg/L	n/v	<0.1	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Phenol	µg/L	n/v	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Pyrene	µg/L	n/v	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Trichlorobenzene, 1,2,4-	µg/L	n/v	<0.1	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Trichlorophenol, 2,4,5-	µg/L	n/v	<0.2	-	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Trichlorophenol, 2,4,6-	µg/L	5[B] 2$_f$[D]	<0.2	-	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Volatile Organic Compounds												
Acetone	µg/L	n/v	<10	-	<10	<10	<10	<10	<10	<10	<10	<10
Bromodichloromethane	µg/L	n/v	5.0	-	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Bromoform (Tribromomethane)	µg/L	n/v	<1.0	-	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromomethane (Methyl bromide)	µg/L	n/v	<0.50	-	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Carbon Tetrachloride (Tetrachloromethane)	µg/L	2[B]	**4.9[B]**	0.62	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Chlorobenzene (Monochlorobenzene)	µg/L	80[B] 30$_f$[D]	<0.20	-	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Chloroform (Trichloromethane)	µg/L	n/v	18	-	0.51	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Dibromochloromethane	µg/L	n/v	2.0	-	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Dichlorobenzene, 1,2-	µg/L	200[B] 3$_f$[D]	<0.50	-	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Dichlorobenzene, 1,3-	µg/L	n/v	<0.50	-	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Dichlorobenzene, 1,4-	µg/L	5[B] 1$_f$[D]	<0.50	-	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Dichlorodifluoromethane (Freon 12)	µg/L	n/v	<1.0	-	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Dichloroethane, 1,1-	µg/L	n/v	<0.20	-	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Dichloroethane, 1,2-	µg/L	5[C]	<0.50	-	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Dichloroethene, 1,1-	µg/L	14[B]	<0.20	-	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Dichloroethene, cis-1,2-	µg/L	n/v	<0.50	-	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Dichloroethene, trans-1,2-	µg/L	n/v	<0.50	-	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Dichloropropane, 1,2-	µg/L	n/v	<0.20	-	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Dichloropropene, 1,3- (sum of isomers cis + trans)	µg/L	n/v	<0.50	-	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Dichloropropene, cis-1,3-	µg/L	n/v	<0.30	-	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
Dichloropropene, trans-1,3-	µg/L	n/v	<0.40	-	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40
Ethylene Dibromide (Dibromoethane, 1,2-)	µg/L	n/v	<0.20	-	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Hexane (n-Hexane)	µg/L	n/v	<1.0	-	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Methyl Ethyl Ketone (MEK) (2-Butanone)	µg/L	n/v	<10	-	<10	<10	<10	<10	<10	<10	<10	<10
Methyl Isobutyl Ketone (MIBK)	µg/L	n/v	<5.0	-	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Methyl tert-butyl ether (MTBE)	µg/L	15[D]	<0.50	-	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Methylene Chloride (Dichloromethane)	µg/L	50[B]	<2.0	-	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Styrene	µg/L	n/v	<0.50	-	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Tetrachloroethane, 1,1,1,2-	µg/L	n/v	<0.50	-	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Tetrachloroethane, 1,1,2,2-	µg/L	n/v	<0.50	-	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Tetrachloroethene (PCE)	µg/L	10[B]	<0.20	-	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Trichloroethane, 1,1,1-	µg/L	n/v	<0.20	-	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Trichloroethane, 1,1,2-	µg/L	n/v	<0.50	-	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Trichloroethene (TCE)	µg/L	5[B]	<0.20	-	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Trichlorofluoromethane (Freon 11)	µg/L	n/v	<0.50	-	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Trihalomethanes	µg/L	100$_e$[B]	25	-	0.51	<1.0	<0.20	<0.20	<0.20	<1.0	<0.20	<1.0
Vinyl Chloride	µg/L	1[B]	<0.20	-	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20

See notes on last page

Table 8
Summary of Groundwater Analytical Results - Private Wells
Clarington Tranformer Station
Hydro One Networks Inc.

Aquifer Unit			Shallow Overburden								
Sample Date			5-Aug-14	8-Oct-14	11-Nov-14	15-Apr-15	6-Oct-15	12-Apr-16	1-Nov-16	24-Apr-17	17-Oct-17
Sample ID			WG-160900764-20140805-JK16	WG-160900764-20141008-AD22	WG-160900764-20141111-AD03	WG-160900764-20150415-JK5	WG-160900764-2015106-JK9	WG-160900764-20160412-JK11	WG-160900764-20161101-JK5	WG-160900764-20170424-JK5	WG-160900764-20171017-JK12
Water Type			Raw	Raw	Raw	Raw	Raw	Raw	Raw	Raw	Raw
Sample Tap			Outside (Back house)	Outside (Back house)	Outside (Back house)	Outside (Back house)	Outside (Back house)	Outside (Back house)	Outside (Back house)	Outside (Back house)	Outside (Back house)
Treatment Type			None	None	None	None	None	None	None	None	None
Sampling Company			STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC
Laboratory			MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX
Laboratory Work Order			B4D9335	B4I8196	B4L2726	B567144	B5K3284	B673025	B6N7539	B781996	B7N0778
Laboratory Sample ID			WZ3805	XX8293	YK4123	ACQ223	BCP437	CEK235	DJI431	EGP447	FIX852
Filtered	Units	ODWS	Lab Filtered Metals	Total Metals	Total Metals	Total Metals	Total Metals	Total Metals	Total Metals	Total Metals	Total Metals
General Chemistry											
Acidity	mg/L	n/v	24	<10	22	24	29	30	26	36	17
Alkalinity, Bicarbonate (as CaCO3)	mg/L	n/v	260	270	250	300	270	280	270	260	280
Alkalinity, Carbonate (as CaCO3)	mg/L	n/v	1.9	1.7	2.1	1.3	1.0	1.4	2.1	2.0	1.8
Alkalinity, Total (as CaCO3)	mg/L	30-500[E]	260	270	260	300	270	290	270	270	280
Ammonia (as N)	mg/L	n/v	<0.050	<0.050	<0.050	4.6	<0.050	<0.050	<0.050	<0.050	<0.050
Anion Sum	me/L	n/v	6.67	6.76	6.59	7.51	6.74	7.06	6.78	6.62	6.95
Cation Sum	me/L	n/v	6.60	6.63	6.95	7.48	7.10	7.14	6.51	6.57	6.45
Chloride	mg/L	250[D]	13	12	14	21	16	16	18	14	14
Cyanide (Free)	µg/L	200[B]	<2	<2	<2	4	<2	<2	<1	<1	<1
Dissolved Organic Carbon (DOC)	mg/L	5[D]	0.74	0.97	0.98	**5.4[D]**	0.98	1.2	1.0	1.3	1.2
Electrical Conductivity, Lab	µmhos/cm	n/v	600	630	640	700	630	670	650	640	620
Fluoride	mg/L	1.5$_b$[B]	<0.10	<0.10	<0.10	<0.1	<0.10	<0.10	<0.10	<0.10	<0.10
Hardness (as CaCO3)	mg/L	80-100[E]	**320[E]**	**320[E]**	**330[E]**	**340[E]**	**340[E]**	**340[E]**	**310[E]**	**320[E]**	**310[E]**
Ion Balance	%	n/v	0.530	0.970	2.68	0.160	2.60	0.610	2.01	0.330	3.71
Langelier Index (at 20 C)	none	n/v	0.910	0.868	0.961	0.751	0.658	0.802	0.927	0.920	0.872
Langelier Index (at 4 C)	none	n/v	0.661	0.619	0.712	0.503	0.409	0.554	0.678	0.671	0.623
Nitrate (as N)	mg/L	10.0$_d$[B]	8.06	8.69	8.67	6.54	6.64	6.22	6.18	6.38	8.11
Nitrate + Nitrite (as N)	mg/L	10.0$_d$[B]	8.06	8.69	8.67	6.565	6.64	6.22	6.18	6.38	8.11
Nitrite (as N)	mg/L	1.0$_d$[B]	<0.010	<0.010	<0.010	0.025	<0.010	<0.010	<0.010	<0.010	<0.010
Orthophosphate(as P)	mg/L	n/v	<0.010	<0.010	<0.010	0.014	<0.010	<0.010	<0.010	<0.010	<0.010
pH	S.U.	6.5-8.5[E]	7.89	7.83	7.94	7.66	7.62	7.72	7.92	7.90	7.84
Saturation pH (at 20 C)	none	n/v	6.98	6.96	6.98	6.91	6.96	6.92	6.99	6.98	6.97
Saturation pH (at 4 C)	none	n/v	7.23	7.21	7.23	7.16	7.21	7.17	7.24	7.23	7.22
Sulfate	mg/L	500$_n$[D]	22	21	22	23	23	21	23	21	19
Total Dissolved Solids	mg/L	500[D]	358	324	376	402	386	370	352	372	375
Total Organic Carbon	mg/L	n/v	0.80	0.92	0.94	5.7	0.91	1.2	0.95	0.98	1.2
Total Suspended Solids	mg/L	n/v	<10	<10	<10	<10	<10	<10	<10	<10	<10
Turbidity, Lab	NTU	5$_i$[D, E]	<0.2	<0.2	<0.2	3.8	<0.2	<0.2	1.9	<0.1	0.2
Metals											
Aluminum	µg/L	100[E]	<5.0	<5.0	<5.0	22	<5.0	<5.0	5.6	<5.0	5.9
Antimony	µg/L	6[C]	<0.50	<0.50	<0.50	<0.5	<0.5	<0.50	<0.5	<0.50	<0.5
Arsenic	µg/L	25[C]	<1.0	<1.0	<1.0	<1	<1	<1.0	<1	<1.0	<1
Barium	µg/L	1,000[B]	41	45	48	46	45	46	44	40	47
Beryllium	µg/L	n/v	<0.50	<0.50	<0.50	<0.5	<0.5	<0.50	<0.5	<0.50	<0.5
Boron	µg/L	5,000[C]	<10	<10	<10	<10	<10	<10	<10	<10	<10
Cadmium	µg/L	5[B]	<0.10	<0.10	<0.10	<0.1	<0.1	<0.10	<0.1	<0.10	<0.1
Calcium	µg/L	n/v	110,000	110,000	110,000	110,000	110,000	120,000	100,000	110,000	110,000
Chromium	µg/L	50[B]	<5.0	<5.0	<5.0	<5	<5.0	<5.0	<5	<5.0	<5
Chromium (Hexavalent)	µg/L	n/v	0.56	0.56	0.56	<0.5	0.68	0.53	0.61	0.58	0.56
Cobalt	µg/L	n/v	<0.50	<0.50	<0.50	<0.5	<0.5	<0.50	<0.5	<0.50	<0.5
Copper	µg/L	1,000[D]	14	7.2	5.4	5.8	5.1	7.4	4.7	6.1	6.2
Iron	µg/L	300[D]	<100	<100	<100	<100	<100	<100	<100	<100	<100
Lead	µg/L	10$_c$[B]	<0.50	<0.50	<0.50	<0.5	<0.5	<0.50	<0.5	<0.50	<0.5
Magnesium	µg/L	n/v	11,000	12,000	13,000	12,000	13,000	13,000	12,000	12,000	11,000
Manganese	µg/L	50[D]	<2.0	<2.0	<2.0	16	<2	<2.0	<2	<2.0	<2
Mercury	µg/L	1[B]	<0.10	<0.10	<0.10	<0.1	<0.1	<0.10	<0.1	<0.1	<0.1
Molybdenum	µg/L	n/v	<0.50	<0.50	<0.50	<0.5	<0.5	<0.50	<0.5	<0.50	<0.5
Nickel	µg/L	n/v	<1.0	<1.0	<1.0	<1	<1	<1.0	<1	<1.0	<1
Phosphorus	µg/L	n/v	<100	<100	<100	<100	<100	<100	<100	<100	<100
Potassium	µg/L	n/v	870	910	940	2,300	990	960	990	810	970
Selenium	µg/L	50[B]	<2.0	<2.0	<2.0	<2	<2	<2.0	<2	<2.0	<2
Silicon	µg/L	n/v	6,300	6,000	6,600	5,300	6,500	6,000	6,000	5,700	6,100
Silver	µg/L	n/v	<0.10	<0.10	<0.10	<0.1	<0.1	<0.10	<0.1	<0.10	<0.1
Sodium	µg/L	200,000$_g$[D] 20,000$_g$[F]	6,200	5,700	6,300	8,900	6,900	7,100	7,100	5,500	5,200
Strontium	µg/L	n/v	190	200	210	210	210	220	190	180	200
Thallium	µg/L	n/v	<0.050	<0.050	<0.050	<0.05	<0.05	<0.05	<0.05	<0.050	<0.05
Titanium	µg/L	n/v	<5.0	<5.0	<5.0	<5	<5.0	<5.0	<5	<5.0	<5
Uranium	µg/L	20[B]	0.52	0.49	0.57	0.61	0.64	0.65	0.61	0.55	0.54
Vanadium	µg/L	n/v	<0.50	<0.50	<0.50	<0.5	<0.5	<0.50	<0.5	<0.50	<0.5
Zinc	µg/L	5,000[D]	11	9.0	11	9.5	9.1	8.5	15	14	7.1
Zirconium	µg/L	n/v	<1.0	<1.0	<1.0	<1	<1	<1.0	<1	<1.0	<1
Microbiological Analysis											
Escherichia coli (E.Coli)	cfu/100mL	0[A]	-	**16[A]**	**1[A]**	0	0	0	0	0	0
Total Coliform Background	cfu/100mL	n/v	-	96	8	250	0	0	0	0	2
Total Coliforms	cfu/100mL	0[A]	-	**24[A]**	**6[A]**	0	0	0	0	0	**1[A]**
BTEX and Petroleum Hydrocarbons											
Benzene	µg/L	1[B]	<0.20	<0.20	<0.20	<0.2	<0.20	<0.20	<0.20	<0.20	<0.20
Toluene	µg/L	60[B] 24[D]	<0.20	<0.20	<0.20	<0.2	<0.20	<0.20	<0.20	<0.20	<0.20
Ethylbenzene	µg/L	140[B] 1.6[D]	<0.20	<0.20	<0.20	<0.2	<0.20	<0.20	<0.20	<0.20	<0.20
Xylene, m & p-	µg/L	300$_{s1}$[D]	<0.20	<0.20	<0.20	<0.2	<0.20	<0.40	<0.40	<0.20	<0.20
Xylene, o-	µg/L	300$_{s1}$[D]	<0.20	<0.20	<0.20	<0.2	<0.20	<0.20	<0.20	<0.20	<0.20
Xylenes, Total	µg/L	90[B] 20[D]	<0.20	<0.20	<0.20	<0.2	<0.20	<0.40	<0.40	<0.20	<0.20
PHC F1 (C6-C10 range)	µg/L	n/v	<25	<25	<25	<25	<25	<25	<25	<25	<25
PHC F1 (C6-C10 range) minus BTEX	µg/L	n/v	<25	<25	<25	<25	<25	<25	<25	<25	<25
PHC F2 (>C10-C16 range)	µg/L	n/v	<100	<100	<100	<100	<100	<100	<100	<100	<100
PHC F3 (>C16-C34 range)	µg/L	n/v	<200	<200	<200	<200	<200	<200	<200	<200	<200
PHC F4 (>C34-C50 range)	µg/L	n/v	<200	<200	<200	<200	<200	<200	<200	<200	<200
Chromatogram to baseline at C50	none	n/v	YES	YES	YES	YES	YES	YES	YES	YES	YES
Polychlorinated Biphenyls											
Aroclor 1242	µg/L	n/v	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Aroclor 1248	µg/L	n/v	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Aroclor 1254	µg/L	n/v	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Aroclor 1260	µg/L	n/v	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Polychlorinated Biphenyls (PCBs)	µg/L	3[C]	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05

See notes on last page

Table 8
Summary of Groundwater Analytical Results - Private Wells
Clarington Tranformer Station
Hydro One Networks Inc.

Aquifer Unit			Shallow Overburden								
Sample Date			5-Aug-14	8-Oct-14	11-Nov-14	15-Apr-15	6-Oct-15	12-Apr-16	1-Nov-16	24-Apr-17	17-Oct-17
Sample ID			WG-160900764-20140805-JK16	WG-160900764-20141008-AD22	WG-160900764-20141111-AD03	WG-160900764-20150415-JK5	WG-160900764-2015106-JK9	WG-160900764-20160412-JK11	WG-160900764-20161101-JK5	WG-160900764-20170424-JK5	WG-160900764-20171017-JK12
Water Type			Raw	Raw	Raw	Raw	Raw	Raw	Raw	Raw	Raw
Sample Tap			Outside (Back house)	Outside (Back house)	Outside (Back house)	Outside (Back house)	Outside (Back house)	Outside (Back house)	Outside (Back house)	Outside (Back house)	Outside (Back house)
Treatment Type			None	None	None	None	None	None	None	None	None
Sampling Company			STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC
Laboratory			MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX
Laboratory Work Order			B4D9335	B4I8196	B4L2726	B567144	B5K3284	B673025	B6N7539	B781996	B7N0778
Laboratory Sample ID			WZ3805	XX8293	YK4123	ACQ223	BCP437	CEK235	DJI431	EGP447	FIX852
Filtered	Units	ODWS	Lab Filtered Metals	Total Metals	Total Metals	Total Metals	Total Metals	Total Metals	Total Metals	Total Metals	Total Metals
Semi-Volatile Organic Compounds											
Acenaphthene	µg/L	n/v	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Acenaphthylene	µg/L	n/v	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Anthracene	µg/L	n/v	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(a)anthracene	µg/L	n/v	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(a)pyrene	µg/L	0.01[B]	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Benzo(b/j)fluoranthene	µg/L	n/v	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(g,h,i)perylene	µg/L	n/v	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(k)fluoranthene	µg/L	n/v	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Biphenyl, 1,1'- (Biphenyl)	µg/L	n/v	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Bis(2-Chloroethyl)ether	µg/L	n/v	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Bis(2-Chloroisopropyl)ether	µg/L	n/v	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Bis(2-Ethylhexyl)phthalate (DEHP)	µg/L	n/v	<1	<1	<1	<1	<1	<1	<1	4	<1
Chloroaniline, 4-	µg/L	n/v	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chlorophenol, 2- (ortho-Chlorophenol)	µg/L	n/v	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Chrysene	µg/L	n/v	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Dibenzo(a,h)anthracene	µg/L	n/v	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dichlorobenzidine, 3,3'-	µg/L	n/v	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Dichlorophenol, 2,4-	µg/L	900[B] 0.3$_f$[D]	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Diethyl Phthalate	µg/L	n/v	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dimethyl Phthalate	µg/L	n/v	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dimethylphenol, 2,4-	µg/L	n/v	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Dinitrophenol, 2,4-	µg/L	n/v	<2	<2	<2	<2	<2	<2	<2	<2	<2
Dinitrotoluene, 2,4-	µg/L	n/v	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Dinitrotoluene, 2,6-	µg/L	n/v	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Fluoranthene	µg/L	n/v	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Fluorene	µg/L	n/v	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Indeno(1,2,3-cd)pyrene	µg/L	n/v	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Methylnaphthalene (Total)	µg/L	n/v	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28
Methylnaphthalene, 1-	µg/L	n/v	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Methylnaphthalene, 2-	µg/L	n/v	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Naphthalene	µg/L	n/v	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Pentachlorophenol	µg/L	60[B] 30$_f$[D]	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	µg/L	n/v	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Phenol	µg/L	n/v	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Pyrene	µg/L	n/v	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Trichlorobenzene, 1,2,4-	µg/L	n/v	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Trichlorophenol, 2,4,5-	µg/L	n/v	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Trichlorophenol, 2,4,6-	µg/L	5[B] 2$_f$[D]	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Volatile Organic Compounds											
Acetone	µg/L	n/v	<10	<10	<10	<10	<10	<10	<10	<10	<10
Bromodichloromethane	µg/L	n/v	<0.50	<0.50	0.61	<0.5	<0.50	<0.50	1.9	<0.50	<0.50
Bromoform (Tribromomethane)	µg/L	n/v	<1.0	<1.0	<1.0	<1	<1.0	<1.0	<1.0	<1.0	<1.0
Bromomethane (Methyl bromide)	µg/L	n/v	<0.50	<0.50	<0.50	<0.5	<0.50	<0.50	<0.50	<0.50	<0.50
Carbon Tetrachloride (Tetrachloromethane)	µg/L	2[B]	<0.20	<0.20	<0.20	<0.2	<0.20	<0.20	<0.20	<0.20	<0.20
Chlorobenzene (Monochlorobenzene)	µg/L	80[B] 30$_f$[D]	<0.20	<0.20	<0.20	<0.2	<0.20	<0.20	<0.20	<0.20	<0.20
Chloroform (Trichloromethane)	µg/L	n/v	<0.20	<0.20	1.4	5.2	<0.20	<0.20	3.1	<0.20	<0.20
Dibromochloromethane	µg/L	n/v	<0.50	<0.50	<0.50	<0.5	<0.50	<0.50	1.1	<0.50	<0.50
Dichlorobenzene, 1,2-	µg/L	200[B] 3$_f$[D]	<0.50	<0.50	<0.50	<0.5	<0.50	<0.50	<0.50	<0.50	<0.50
Dichlorobenzene, 1,3-	µg/L	n/v	<0.50	<0.50	<0.50	<0.5	<0.50	<0.50	<0.50	<0.50	<0.50
Dichlorobenzene, 1,4-	µg/L	5[B] 1$_f$[D]	<0.50	<0.50	<0.50	<0.5	<0.50	<0.50	<0.50	<0.50	<0.50
Dichlorodifluoromethane (Freon 12)	µg/L	n/v	<1.0	<1.0	<1.0	<1	<1.0	<1.0	<1.0	<1.0	<1.0
Dichloroethane, 1,1-	µg/L	n/v	<0.20	<0.20	<0.20	<0.2	<0.20	<0.20	<0.20	<0.20	<0.20
Dichloroethane, 1,2-	µg/L	5[C]	<0.50	<0.50	<0.50	<0.5	<0.50	<0.50	<0.50	<0.50	<0.50
Dichloroethene, 1,1-	µg/L	14[B]	<0.20	<0.20	<0.20	<0.2	<0.20	<0.20	<0.20	<0.20	<0.20
Dichloroethene, cis-1,2-	µg/L	n/v	<0.50	<0.50	<0.50	<0.5	<0.50	<0.50	<0.50	<0.50	<0.50
Dichloroethene, trans-1,2-	µg/L	n/v	<0.50	<0.50	<0.50	<0.5	<0.50	<0.50	<0.50	<0.50	<0.50
Dichloropropane, 1,2-	µg/L	n/v	<0.20	<0.20	<0.20	<0.2	<0.20	<0.20	<0.20	<0.20	<0.20
Dichloropropene, 1,3- (sum of isomers cis + trans)	µg/L	n/v	<0.50	<0.50	<0.50	<0.5	<0.50	<0.50	<0.50	<0.50	<0.50
Dichloropropene, cis-1,3-	µg/L	n/v	<0.30	<0.30	<0.30	<0.3	<0.30	<0.30	<0.30	<0.30	<0.30
Dichloropropene, trans-1,3-	µg/L	n/v	<0.40	<0.40	<0.40	<0.4	<0.40	<0.40	<0.40	<0.40	<0.40
Ethylene Dibromide (Dibromoethane, 1,2-)	µg/L	n/v	<0.20	<0.20	<0.20	<0.2	<0.20	<0.20	<0.20	<0.20	<0.20
Hexane (n-Hexane)	µg/L	n/v	<1.0	<1.0	<1.0	<1	<1.0	<1.0	<1.0	<1.0	<1.0
Methyl Ethyl Ketone (MEK) (2-Butanone)	µg/L	n/v	<10	<10	<10	<10	<10	<10	<10	<10	<10
Methyl Isobutyl Ketone (MIBK)	µg/L	n/v	<5.0	<5.0	<5.0	<5	<5.0	<5.0	<5.0	<5.0	<5.0
Methyl tert-butyl ether (MTBE)	µg/L	15[D]	<0.50	<0.50	<0.50	<0.5	<0.50	<0.50	<0.50	<0.50	<0.50
Methylene Chloride (Dichloromethane)	µg/L	50[B]	<2.0	<2.0	<2.0	<2	<2.0	<2.0	<2.0	<2.0	<2.0
Styrene	µg/L	n/v	<0.50	<0.50	<0.50	<0.5	<0.50	<0.50	<0.50	<0.50	<0.50
Tetrachloroethane, 1,1,1,2-	µg/L	n/v	<0.50	<0.50	<0.50	<0.5	<0.50	<0.50	<0.50	<0.50	<0.50
Tetrachloroethane, 1,1,2,2-	µg/L	n/v	<0.50	<0.50	<0.50	<0.5	<0.50	<0.50	<0.50	<0.50	<0.50
Tetrachloroethene (PCE)	µg/L	10[B]	<0.20	<0.20	<0.20	<0.2	<0.20	<0.20	<0.20	<0.20	<0.20
Trichloroethane, 1,1,1-	µg/L	n/v	<0.20	<0.20	<0.20	<0.2	<0.20	<0.20	<0.20	<0.20	<0.20
Trichloroethane, 1,1,2-	µg/L	n/v	<0.50	<0.50	<0.50	<0.5	<0.50	<0.50	<0.50	<0.50	<0.50
Trichloroethene (TCE)	µg/L	5[B]	<0.20	<0.20	<0.20	<0.2	<0.20	<0.20	<0.20	<0.20	<0.20
Trichlorofluoromethane (Freon 11)	µg/L	n/v	<0.50	<0.50	<0.50	<0.5	<0.50	<0.50	<0.50	<0.50	<0.50
Trihalomethanes	µg/L	100$_e$[B]	<0.20	<0.20	2.01	5.2	<0.20	<0.20	6.1	<0.20	<1.0
Vinyl Chloride	µg/L	1[B]	<0.20	<0.20	<0.20	<0.2	<0.20	<0.20	<0.20	<0.20	<0.20

See notes on last page

Table 8
Summary of Groundwater Analytical Results - Private Wells
Clarington Tranformer Station
Hydro One Networks Inc.

Aquifer Unit			Thorncliffe Formation									
Sample Date			31-Jul-14	8-Oct-14	15-Apr-15	5-Oct-15	18-Apr-16	3-Nov-16	25-Apr-17	18-Oct-17	31-Jul-14	6-Oct-14
Sample ID			WG-160900764-20140731-JK5	WG-160900764-20141008-AD20	WG-160900764-20150415-JK2	WG-160900764-20151005-JK5	WG-160900764-20160418-JK23	WG-160900764-20161103-JK18	WG-160900764-20170425-JK14	WG-160900764-20171018-JK19	WG-160900764-20140731-JK6	WG-160900764-20141006-AD01
Water Type			Raw	Raw	Raw	Raw	Raw	Raw	Raw	Raw	Treated	Treated
Sample Tap			Outside (Driveway)	Outside (Driveway)	Outside (Driveway)	Outside (Driveway)	Outside (Driveway)	Outside (Driveway)	Outside (Driveway)	Outside (Driveway)	Inside (Kitchen)	Inside (Kitchen)
Treatment Type			None	None	None	None	None	None	None	None	Sediment Filter	Carbon Filter
Sampling Company			STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC
Laboratory			MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX
Laboratory Work Order			B4D8040	B4I8196	B567144	B5K2703	B676726	B6N8820	B783174	B7N2030	B4D8040	B4I6091
Laboratory Sample ID			WY7359	XX8291	ACQ220	BCM870	CFC037	DJO309	EGU900	FJE416	WY7360	XW7255
Filtered	Units	ODWS	Lab Filtered Metals	Total Metals	Total Metals	Total Metals	Total Metals	Total Metals	Total Metals	Total Metals	Lab Filtered Metals	Lab Filtered Metals
General Chemistry												
Acidity	mg/L	n/v	<10	<10	<10	<10	12	10	12	<5.0	<10	<10
Alkalinity, Bicarbonate (as CaCO3)	mg/L	n/v	180	190	200	180	180	180	180	180	140	150
Alkalinity, Carbonate (as CaCO3)	mg/L	n/v	2.0	1.7	<1	<1.0	1.9	2.0	1.8	2.1	1.9	2.1
Alkalinity, Total (as CaCO3)	mg/L	30-500[E]	180	190	200	180	190	190	190	190	140	150
Ammonia (as N)	mg/L	n/v	0.11	0.11	0.41	0.12	0.079	0.093	0.079	0.083	0.25	0.29
Anion Sum	me/L	n/v	3.96	4.02	4.29	3.97	4.01	4.00	3.98	4.02	3.13	3.50
Cation Sum	me/L	n/v	4.23	3.97	3.91	4.18	4.09	3.94	3.92	3.80	3.03	3.39
Chloride	mg/L	250[D]	2	2	2	1.9	1.9	1.8	1.7	1.6	2	3
Cyanide (Free)	µg/L	200[B]	<2	<2	<2	<2	<2	<1	<1	<1	<2	<2
Dissolved Organic Carbon (DOC)	mg/L	5[D]	0.69	0.75	0.58	0.72	0.84	0.85	0.71	0.80	0.69	0.74
Electrical Conductivity, Lab	µmhos/cm	n/v	370	370	370	360	360	370	370	350	290	320
Fluoride	mg/L	1.5$_b$[B]	0.15	0.14	0.16	0.15	0.16	0.16	0.15	0.15	0.21	0.20
Hardness (as CaCO3)	mg/L	80-100[E]	**190[E]**	**180[E]**	**180[E]**	**190[E]**	**190[E]**	**180[E]**	**180[E]**	**170[E]**	**120[E]**	**140[E]**
Ion Balance	%	n/v	3.25	0.650	4.55	2.58	1.05	0.720	0.820	2.81	1.56	1.65
Langelier Index (at 20 C)	none	n/v	0.652	0.537	0.259	0.317	0.595	0.590	0.554	0.616	0.280	0.427
Langelier Index (at 4 C)	none	n/v	0.403	0.287	0.00800	0.0670	0.345	0.340	0.304	0.366	0.0300	0.177
Nitrate (as N)	mg/L	10.0$_d$[B]	<0.10	<0.10	<0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Nitrate + Nitrite (as N)	mg/L	10.0$_d$[B]	<0.10	<0.10	<0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.010
Nitrite (as N)	mg/L	1.0$_d$[B]	<0.010	<0.010	<0.01	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Orthophosphate(as P)	mg/L	n/v	<0.010	<0.010	<0.01	<0.010	<0.010	<0.010	<0.010	<0.010	0.012	0.014
pH	S.U.	6.5-8.5[E]	8.07	7.99	7.68	7.75	8.03	8.05	8.02	8.09	8.15	8.18
Saturation pH (at 20 C)	none	n/v	7.42	7.45	7.43	7.43	7.43	7.46	7.47	7.48	7.87	7.75
Saturation pH (at 4 C)	none	n/v	7.66	7.70	7.68	7.68	7.68	7.71	7.72	7.73	8.12	8.00
Sulfate	mg/L	500$_n$[D]	11	10	12	11	11	11	11	11	10	18
Total Dissolved Solids	mg/L	500[D]	224	212	210	216	204	222	226	195	162	144
Total Organic Carbon	mg/L	n/v	0.85	0.79	0.77	0.69	0.76	1.1	0.58	0.79	0.73	0.67
Total Suspended Solids	mg/L	n/v	72	<10	<10	<10	<10	<10	<10	<10	<10	<10
Turbidity, Lab	NTU	5$_{ij}$[D, E]	**31[D]**	**11[D]**	4.0	**8.1[D]**	3.5	**8.3[D]**	**9.3[D]**	**6.3[D]**	1.2	1.3
Metals												
Aluminum	µg/L	100[E]	23	18	<5	5.2	<5	<5	<5.0	<5	<5.0	<5.0
Antimony	µg/L	6[C]	<0.50	<0.50	<0.5	<0.5	<0.5	<0.5	<0.50	<0.5	<0.50	<0.50
Arsenic	µg/L	25[C]	<1.0	<1.0	<1	<1	<1	<1	<1.0	<1	<1.0	<1.0
Barium	µg/L	1,000[B]	170	180	180	180	180	170	160	160	95	120
Beryllium	µg/L	n/v	<0.50	<0.50	<0.5	<0.5	<0.5	<0.5	<0.50	<0.5	<0.50	<0.50
Boron	µg/L	5,000[C]	21	19	20	19	23	18	19	18	48	36
Cadmium	µg/L	5[B]	<0.10	<0.10	<0.1	<0.1	<0.1	<0.1	<0.10	<0.1	<0.10	<0.10
Calcium	µg/L	n/v	52,000	47,000	46,000	50,000	48,000	46,000	46,000	43,000	22,000	27,000
Chromium	µg/L	50[B]	<5.0	<5.0	<5	<5.0	<5	<5	<5.0	<5	<5.0	<5.0
Chromium (Hexavalent)	µg/L	n/v	<0.50	<0.50	<0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Cobalt	µg/L	n/v	<0.50	<0.50	<0.5	<0.5	<0.5	<0.5	<0.50	<0.5	<0.50	<0.50
Copper	µg/L	1,000[D]	1.9	<1.0	17	<1	5.4	3.3	1.3	4.1	1.1	<1.0
Iron	µg/L	300[D]	<100	**1,200[D]**	**880[D]**	**1,600[D]**	**790[D]**	**1,200[D]**	**1,300[D]**	**1,100[D]**	<100	300
Lead	µg/L	10$_c$[B]	<0.50	<0.50	<0.5	<0.5	<0.5	<0.5	<0.50	<0.5	<0.50	<0.50
Magnesium	µg/L	n/v	16,000	16,000	15,000	16,000	16,000	16,000	15,000	16,000	15,000	17,000
Manganese	µg/L	50[D]	21	18	15	24	16	18	20	16	7.1	8.0
Mercury	µg/L	1[B]	<0.10	<0.10	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.10	<0.10
Molybdenum	µg/L	n/v	0.71	0.79	0.8	0.7	0.75	0.82	0.72	0.73	0.72	0.81
Nickel	µg/L	n/v	<1.0	<1.0	<1	<1	<1	<1	<1.0	<1	<1.0	<1.0
Phosphorus	µg/L	n/v	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
Potassium	µg/L	n/v	1,100	1,000	1,000	1,100	1,000	1,100	1,000	970	520	540
Selenium	µg/L	50[B]	<2.0	<2.0	<2	<2	<2	<2	<2.0	<2	<2.0	<2.0
Silicon	µg/L	n/v	12,000	12,000	11,000	12,000	12,000	11,000	12,000	11,000	8,600	8,000
Silver	µg/L	n/v	<0.10	<0.10	<0.1	<0.1	<0.1	<0.1	<0.10	<0.1	<0.10	<0.10
Sodium	µg/L	200,000$_g$[D] 20,000$_g$[F]	7,100	6,300	6,400	6,700	7,400	6,700	6,800	6,700	14,000	14,000
Strontium	µg/L	n/v	260	250	250	260	250	250	230	240	330	380
Thallium	µg/L	n/v	<0.050	<0.050	<0.05	<0.05	<0.05	<0.05	<0.050	<0.05	<0.050	<0.050
Titanium	µg/L	n/v	<5.0	<5.0	<5	<5.0	<5	<5	<5.0	<5	<5.0	<5.0
Uranium	µg/L	20[B]	<0.10	<0.10	<0.1	<0.1	<0.1	<0.1	<0.10	<0.1	<0.10	<0.10
Vanadium	µg/L	n/v	<0.50	<0.50	<0.5	<0.5	<0.5	<0.5	<0.50	<0.5	<0.50	<0.50
Zinc	µg/L	5,000[D]	<5.0	<5.0	5.6	<5.0	<5	7	<5.0	<5	<5.0	<5.0
Zirconium	µg/L	n/v	4.1	<1.0	<1	<1	-	<1	<1.0	<1	<1.0	<1.0
Microbiological Analysis												
Escherichia coli (E.Coli)	cfu/100mL	0[A]	-	0	0	0	0	0	0	0	-	0
Total Coliform Background	cfu/100mL	n/v	-	0	0	0	4	5	76	8	-	0
Total Coliforms	cfu/100mL	0[A]	-	0	0	0	0	**1[A]**	**36[A]**	**1[A]**	-	0
BTEX and Petroleum Hydrocarbons												
Benzene	µg/L	1[B]	<0.20	<0.20	<0.2	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Toluene	µg/L	60[B] 24[D]	<0.20	<0.20	<0.2	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Ethylbenzene	µg/L	140[B] 1.6[D]	<0.20	<0.20	<0.2	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Xylene, m & p-	µg/L	300$_{s1}$[D]	<0.20	<0.20	<0.2	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Xylene, o-	µg/L	300$_{s1}$[D]	<0.20	<0.20	<0.2	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Xylenes, Total	µg/L	90[B] 20[D]	<0.20	<0.20	<0.2	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
PHC F1 (C6-C10 range)	µg/L	n/v	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
PHC F1 (C6-C10 range) minus BTEX	µg/L	n/v	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
PHC F2 (>C10-C16 range)	µg/L	n/v	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
PHC F3 (>C16-C34 range)	µg/L	n/v	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200
PHC F4 (>C34-C50 range)	µg/L	n/v	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200
Chromatogram to baseline at C50	none	n/v	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
Polychlorinated Biphenyls												
Aroclor 1242	µg/L	n/v	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Aroclor 1248	µg/L	n/v	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Aroclor 1254	µg/L	n/v	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Aroclor 1260	µg/L	n/v	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Polychlorinated Biphenyls (PCBs)	µg/L	3[C]	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05

See notes on last page

Table 8
Summary of Groundwater Analytical Results - Private Wells
Clarington Tranformer Station
Hydro One Networks Inc.

Aquifer Unit			Thorncliffe Formation									
Sample Date			31-Jul-14	8-Oct-14	15-Apr-15	5-Oct-15	18-Apr-16	3-Nov-16	25-Apr-17	18-Oct-17	31-Jul-14	6-Oct-14
Sample ID			WG-160900764-20140731-JK5	WG-160900764-20141008-AD20	WG-160900764-20150415-JK2	WG-160900764-20151005-JK5	WG-160900764-20160418-JK23	WG-160900764-20161103-JK18	WG-160900764-20170425-JK14	WG-160900764-20171018-JK19	WG-160900764-20140731-JK6	WG-160900764-20141006-AD01
Water Type			Raw	Raw	Raw	Raw	Raw	Raw	Raw	Raw	Treated	Treated
Sample Tap			Outside (Driveway)	Outside (Driveway)	Outside (Driveway)	Outside (Driveway)	Outside (Driveway)	Outside (Driveway)	Outside (Driveway)	Outside (Driveway)	Inside (Kitchen)	Inside (Kitchen)
Treatment Type			None	None	None	None	None	None	None	None	Sediment Filter	Carbon Filter
Sampling Company			STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC
Laboratory			MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX
Laboratory Work Order			B4D8040	B4I8196	B567144	B5K2703	B676726	B6N8820	B783174	B7N2030	B4D8040	B4I6091
Laboratory Sample ID			WY7359	XX8291	ACQ220	BCM870	CFC037	DJO309	EGU900	FJE416	WY7360	XW7255
Filtered	Units	ODWS	Lab Filtered Metals	Total Metals	Total Metals	Total Metals	Total Metals	Total Metals	Total Metals	Total Metals	Lab Filtered Metals	Lab Filtered Metals
Semi-Volatile Organic Compounds												
Acenaphthene	µg/L	n/v	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Acenaphthylene	µg/L	n/v	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Anthracene	µg/L	n/v	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(a)anthracene	µg/L	n/v	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(a)pyrene	µg/L	0.01[B]	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	**0.03[B]**	<0.01
Benzo(b/j)fluoranthene	µg/L	n/v	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.10	<0.05
Benzo(g,h,i)perylene	µg/L	n/v	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(k)fluoranthene	µg/L	n/v	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.06	<0.05
Biphenyl, 1,1'- (Biphenyl)	µg/L	n/v	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Bis(2-Chloroethyl)ether	µg/L	n/v	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Bis(2-Chloroisopropyl)ether	µg/L	n/v	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Bis(2-Ethylhexyl)phthalate (DEHP)	µg/L	n/v	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroaniline, 4-	µg/L	n/v	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chlorophenol, 2- (ortho-Chlorophenol)	µg/L	n/v	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Chrysene	µg/L	n/v	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Dibenzo(a,h)anthracene	µg/L	n/v	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dichlorobenzidine, 3,3'-	µg/L	n/v	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Dichlorophenol, 2,4-	µg/L	900[B] 0.3$_f$[D]	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Diethyl Phthalate	µg/L	n/v	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dimethyl Phthalate	µg/L	n/v	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dimethylphenol, 2,4-	µg/L	n/v	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Dinitrophenol, 2,4-	µg/L	n/v	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Dinitrotoluene, 2,4-	µg/L	n/v	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Dinitrotoluene, 2,6-	µg/L	n/v	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Fluoranthene	µg/L	n/v	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Fluorene	µg/L	n/v	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Indeno(1,2,3-cd)pyrene	µg/L	n/v	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Methylnaphthalene (Total)	µg/L	n/v	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28
Methylnaphthalene, 1-	µg/L	n/v	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Methylnaphthalene, 2-	µg/L	n/v	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Naphthalene	µg/L	n/v	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Pentachlorophenol	µg/L	60[B] 30$_f$[D]	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	µg/L	n/v	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Phenol	µg/L	n/v	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Pyrene	µg/L	n/v	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.06	<0.05
Trichlorobenzene, 1,2,4-	µg/L	n/v	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Trichlorophenol, 2,4,5-	µg/L	n/v	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Trichlorophenol, 2,4,6-	µg/L	5[B] 2$_f$[D]	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Volatile Organic Compounds												
Acetone	µg/L	n/v	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Bromodichloromethane	µg/L	n/v	<0.50	<0.50	<0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Bromoform (Tribromomethane)	µg/L	n/v	<1.0	<1.0	<1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromomethane (Methyl bromide)	µg/L	n/v	<0.50	<0.50	<0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Carbon Tetrachloride (Tetrachloromethane)	µg/L	2[B]	<0.20	<0.20	<0.2	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Chlorobenzene (Monochlorobenzene)	µg/L	80[B] 30$_f$[D]	<0.20	<0.20	<0.2	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Chloroform (Trichloromethane)	µg/L	n/v	<0.20	<0.20	<0.2	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Dibromochloromethane	µg/L	n/v	<0.50	<0.50	<0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Dichlorobenzene, 1,2-	µg/L	200[B] 3$_f$[D]	<0.50	<0.50	<0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Dichlorobenzene, 1,3-	µg/L	n/v	<0.50	<0.50	<0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Dichlorobenzene, 1,4-	µg/L	5[B] 1$_f$[D]	<0.50	<0.50	<0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Dichlorodifluoromethane (Freon 12)	µg/L	n/v	<1.0	<1.0	<1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Dichloroethane, 1,1-	µg/L	n/v	<0.20	<0.20	<0.2	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Dichloroethane, 1,2-	µg/L	5[C]	<0.50	<0.50	<0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Dichloroethene, 1,1-	µg/L	14[B]	<0.20	<0.20	<0.2	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Dichloroethene, cis-1,2-	µg/L	n/v	<0.50	<0.50	<0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Dichloroethene, trans-1,2-	µg/L	n/v	<0.50	<0.50	<0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Dichloropropane, 1,2-	µg/L	n/v	<0.20	<0.20	<0.2	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Dichloropropene, 1,3- (sum of isomers cis + trans)	µg/L	n/v	<0.50	<0.50	<0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Dichloropropene, cis-1,3-	µg/L	n/v	<0.30	<0.30	<0.3	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
Dichloropropene, trans-1,3-	µg/L	n/v	<0.40	<0.40	<0.4	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40
Ethylene Dibromide (Dibromoethane, 1,2-)	µg/L	n/v	<0.20	<0.20	<0.2	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Hexane (n-Hexane)	µg/L	n/v	<1.0	<1.0	<1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Methyl Ethyl Ketone (MEK) (2-Butanone)	µg/L	n/v	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Methyl Isobutyl Ketone (MIBK)	µg/L	n/v	<5.0	<5.0	<5	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Methyl tert-butyl ether (MTBE)	µg/L	15[D]	<0.50	<0.50	<0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Methylene Chloride (Dichloromethane)	µg/L	50[B]	<2.0	<2.0	<2	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Styrene	µg/L	n/v	<0.50	<0.50	<0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Tetrachloroethane, 1,1,1,2-	µg/L	n/v	<0.50	<0.50	<0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Tetrachloroethane, 1,1,2,2-	µg/L	n/v	<0.50	<0.50	<0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Tetrachloroethene (PCE)	µg/L	10[B]	<0.20	<0.20	<0.2	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Trichloroethane, 1,1,1-	µg/L	n/v	<0.20	<0.20	<0.2	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Trichloroethane, 1,1,2-	µg/L	n/v	<0.50	<0.50	<0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Trichloroethene (TCE)	µg/L	5[B]	<0.20	<0.20	<0.2	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Trichlorofluoromethane (Freon 11)	µg/L	n/v	<0.50	<0.50	<0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Trihalomethanes	µg/L	100$_e$[B]	<0.20	<0.20	<1	<0.20	<1.0	<1.0	<0.20	<1.0	<0.20	<0.20
Vinyl Chloride	µg/L	1[B]	<0.20	<0.20	<0.2	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20

See notes on last page

Table 8
Summary of Groundwater Analytical Results - Private Wells
Clarington Tranformer Station
Hydro One Networks Inc.

Aquifer Unit			Thorncliffe Formation (Contd.)										
Sample Date			12-Nov-14	12-Nov-14	10-Feb-15	24-Feb-15	10-Mar-15	8-Apr-15	6-Oct-15	11-Apr-16	2-Nov-16	24-Apr-17	17-Oct-17
Sample ID			WG-160900764-20141112-AD11	WG-160900764-20141112-AD11 FILTERED	WG-160900764-20150210-AD01	WG-160900764-20150224-AD01	WG-160900764-20150310-AD01	WG-160900764-20150408-AD04	WG-160900764-2015106-JK15	WG-160900764-20160411-JK4	WG-160900764-20161102-JK12	WG-160900764-20170424-JK3	WG-160900764-20171017-JK17
Water Type			Treated	Treated	Treated	Raw	Raw	Raw	Raw	Raw	Raw	Raw	Raw
Sample Tap			Inside (Kitchen)	Inside (Kitchen)	Inside (Kitchen)	Inside (Kitchen)	Inside (Kitchen)	Inside (Kitchen)	Inside (Kitchen)	Inside (Kitchen)	Inside (Kitchen)	Inside (Kitchen)	Inside (Kitchen)
Treatment Type			Sediment Filter	Sediment Filter	Sediment Filter	None	None	None	None	None	None	None	None
Sampling Company			STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC
Laboratory			MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX
Laboratory Work Order			B4L3740	B4L3740	B523926	B532599	B541661	B561586	B5K3284	B671945	B6N8820	B781996	B7N0778
Laboratory Sample ID			YK9094	YK9158	ZM1389	ZQ1897	ZU7235	ABP511	BCP443	CEE709	DJO302	EGP445	FIX857
Filtered	Units	ODWS	Total Metals	Lab Filtered SVOC	Total Metals	Total Metals	Total Metals	Total Metals	Total Metals	Total Metals	Total Metals	Total Metals	Total Metals
General Chemistry													
Acidity	mg/L	n/v	<10	-	-	-	-	<10	<10	<10	<10	<10	<5.0
Alkalinity, Bicarbonate (as CaCO3)	mg/L	n/v	140	-	-	-	-	140	140	150	140	140	150
Alkalinity, Carbonate (as CaCO3)	mg/L	n/v	2.0	-	-	-	-	1.5	<1.0	<1.0	1.8	2.0	2.2
Alkalinity, Total (as CaCO3)	mg/L	30-500[E]	140	-	140	140	140	140	140	150	150	140	150
Ammonia (as N)	mg/L	n/v	0.35	-	-	-	-	0.24	0.27	0.22	0.24	0.21	0.22
Anion Sum	me/L	n/v	3.15	-	-	-	-	3.19	3.21	3.27	3.26	3.12	3.26
Cation Sum	me/L	n/v	3.16	-	-	-	-	3.12	3.33	3.20	3.13	3.01	3.10
Chloride	mg/L	250[D]	2	-	2	2	2	2	2.5	2.0	2.4	1.8	2.0
Cyanide (Free)	µg/L	200[B]	<2	-	-	-	-	<2	<2	<2	<1	<1	<1
Dissolved Organic Carbon (DOC)	mg/L	5[D]	0.86	-	-	-	-	0.63	0.74	0.75	0.80	0.58	0.69
Electrical Conductivity, Lab	µmhos/cm	n/v	300	-	300	300	290	300	290	280	300	280	280
Fluoride	mg/L	1.5$_b$[B]	0.22	-	-	-	-	0.24	0.21	0.23	0.22	0.21	0.21
Hardness (as CaCO3)	mg/L	80-100[E]	**120[E]**	-	-	-	-	**120[E]**	**130[E]**	**120[E]**	**120[E]**	**120[E]**	**120[E]**
Ion Balance	%	n/v	0.0300	-	-	-	-	1.13	1.77	1.13	1.93	1.75	2.66
Langelier Index (at 20 C)	none	n/v	0.299	-	-	-	-	0.193	0.00400	-0.128	0.269	0.280	0.343
Langelier Index (at 4 C)	none	n/v	0.0490	-	-	-	-	-0.0580	-0.246	-0.378	0.0190	0.0300	0.0930
Nitrate (as N)	mg/L	10.0$_d$[B]	<0.10	-	-	-	-	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Nitrate + Nitrite (as N)	mg/L	10.0$_d$[B]	<0.010	-	-	-	-	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Nitrite (as N)	mg/L	1.0$_d$[B]	<0.010	-	-	-	-	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Orthophosphate(as P)	mg/L	n/v	0.012	-	0.015	0.015	0.015	0.016	0.011	0.012	0.014	0.016	0.014
pH	S.U.	6.5-8.5[E]	8.17	-	8.10	8.14	8.11	8.05	7.85	7.73	8.13	8.17	8.20
Saturation pH (at 20 C)	none	n/v	7.87	-	-	-	-	7.86	7.84	7.86	7.86	7.89	7.85
Saturation pH (at 4 C)	none	n/v	8.12	-	-	-	-	8.11	8.09	8.11	8.11	8.14	8.10
Sulfate	mg/L	500$_n$[D]	11	-	13	13	12	12	12	10	12	8.2	10
Total Dissolved Solids	mg/L	500[D]	156	-	-	-	-	140	154	190	166	144	155
Total Organic Carbon	mg/L	n/v	0.82	-	-	-	-	0.58	0.65	0.87	0.63	0.56	0.75
Total Suspended Solids	mg/L	n/v	<10	-	<10	<10	<10	<10	<10	<10	<10	<10	<10
Turbidity, Lab	NTU	5$_{ij}$[D, E]	1.1	-	**5.6[D]**	1.2	1.2	1.6	1.7	**11[D]**	1.2	1.4	0.7
Metals													
Aluminum	µg/L	100[E]	<5.0	-	-	-	-	<5	<5.0	8.1	<5	<5.0	<5
Antimony	µg/L	6[C]	<0.50	-	-	-	-	<0.5	<0.5	<0.50	<0.5	<0.50	<0.5
Arsenic	µg/L	25[C]	<1.0	-	-	-	-	<1	<1	<1.0	<1	<1.0	<1
Barium	µg/L	1,000[B]	94	-	-	-	-	100	96	100	100	96	100
Beryllium	µg/L	n/v	<0.50	-	-	-	-	<0.5	<0.5	<0.50	<0.5	<0.50	<0.5
Boron	µg/L	5,000[C]	43	-	-	-	-	45	36	48	44	47	45
Cadmium	µg/L	5[B]	<0.10	-	-	-	-	<0.1	<0.1	<0.10	<0.1	<0.10	<0.1
Calcium	µg/L	n/v	22,000	-	-	-	-	22,000	23,000	22,000	23,000	21,000	22,000
Chromium	µg/L	50[B]	<5.0	-	-	-	-	<5	<5.0	<5.0	<5	<5.0	<5
Chromium (Hexavalent)	µg/L	n/v	<0.50	-	-	-	-	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Cobalt	µg/L	n/v	<0.50	-	-	-	-	<0.5	<0.5	<0.50	<0.5	<0.50	<0.5
Copper	µg/L	1,000[D]	<1.0	-	-	-	-	1.9	3	10	<1	1.7	<1
Iron	µg/L	300[D]	290	-	-	-	-	**550[D]**	**440[D]**	**1,500[D]**	**400[D]**	**430[D]**	**350[D]**
Lead	µg/L	10$_c$[B]	<0.50	-	-	-	-	<0.5	<0.5	3.5	<0.5	<0.50	<0.5
Magnesium	µg/L	n/v	17,000	-	-	-	-	16,000	18,000	17,000	16,000	16,000	16,000
Manganese	µg/L	50[D]	8.4	-	-	-	-	8.3	9	15	9.3	9.3	8.2
Mercury	µg/L	1[B]	<0.1	-	-	-	-	<0.1	<0.1	<0.10	<0.1	<0.1	<0.1
Molybdenum	µg/L	n/v	1.1	-	-	-	-	0.7	0.72	0.52	0.94	0.73	0.75
Nickel	µg/L	n/v	<1.0	-	-	-	-	<1	<1	<1.0	<1	<1.0	<1
Phosphorus	µg/L	n/v	<100	-	-	-	-	<100	<100	<100	<100	<100	<100
Potassium	µg/L	n/v	510	-	-	-	-	540	560	430	600	560	540
Selenium	µg/L	50[B]	<2.0	-	-	-	-	<2	<2	<2.0	<2	<2.0	<2
Silicon	µg/L	n/v	7,800	-	-	-	-	7,700	8,300	7,900	7,800	7,700	8,000
Silver	µg/L	n/v	<0.10	-	-	-	-	<0.1	<0.1	<0.10	<0.1	<0.10	<0.1
Sodium	µg/L	200,000$_g$[D] 20,000$_g$[F]	14,000	-	-	-	-	14,000	15,000	15,000	14,000	15,000	14,000
Strontium	µg/L	n/v	350	-	-	-	-	360	360	380	370	350	370
Thallium	µg/L	n/v	<0.050	-	-	-	-	<0.05	<0.05	<0.05	<0.05	<0.050	<0.05
Titanium	µg/L	n/v	<5.0	-	-	-	-	<5	<5.0	<5.0	<5	<5.0	<5
Uranium	µg/L	20[B]	<0.10	-	-	-	-	<0.1	<0.1	<0.10	<0.1	<0.10	<0.1
Vanadium	µg/L	n/v	0.88	-	-	-	-	<0.5	<0.5	<0.50	<0.5	<0.50	<0.5
Zinc	µg/L	5,000[D]	<5.0	-	-	-	-	<5	6.4	130	<5	<5.0	<5
Zirconium	µg/L	n/v	<1.0	-	-	-	-	<1	<1	<1.0	<1	<1.0	<1
Microbiological Analysis													
Escherichia coli (E.Coli)	cfu/100mL	0[A]	0	-	-	-	-	0	0	0	0	0	0
Total Coliform Background	cfu/100mL	n/v	0	-	-	-	-	0	31	5	0	0	4
Total Coliforms	cfu/100mL	0[A]	0	-	-	-	-	0	0	0	0	0	0
BTEX and Petroleum Hydrocarbons													
Benzene	µg/L	1[B]	<0.20	-	-	-	-	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Toluene	µg/L	60[B] 24[D]	<0.20	-	-	-	-	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Ethylbenzene	µg/L	140[B] 1.6[D]	<0.20	-	-	-	-	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Xylene, m & p-	µg/L	300$_{s1}$[D]	<0.20	-	-	-	-	<0.20	<0.20	<0.40	<0.20	<0.20	<0.20
Xylene, o-	µg/L	300$_{s1}$[D]	<0.20	-	-	-	-	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Xylenes, Total	µg/L	90[B] 20[D]	<0.20	-	-	-	-	<0.20	<0.20	<0.40	<0.20	<0.20	<0.20
PHC F1 (C6-C10 range)	µg/L	n/v	<25	-	-	-	-	<25	<25	<25	<25	<25	<25
PHC F1 (C6-C10 range) minus BTEX	µg/L	n/v	<25	-	-	-	-	<25	<25	<25	<25	<25	<25
PHC F2 (>C10-C16 range)	µg/L	n/v	<100	-	-	-	-	<100	<100	<100	<100	<100	<100
PHC F3 (>C16-C34 range)	µg/L	n/v	<200	-	-	-	-	<200	<200	<200	<200	<200	<200
PHC F4 (>C34-C50 range)	µg/L	n/v	<200	-	-	-	-	<200	<200	<200	<200	<200	<200
Chromatogram to baseline at C50	none	n/v	YES	-	-	-	-	YES	YES	YES	YES	YES	YES
Polychlorinated Biphenyls													
Aroclor 1242	µg/L	n/v	<0.05	-	-	-	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Aroclor 1248	µg/L	n/v	<0.05	-	-	-	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Aroclor 1254	µg/L	n/v	<0.05	-	-	-	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Aroclor 1260	µg/L	n/v	<0.05	-	-	-	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Polychlorinated Biphenyls (PCBs)	µg/L	3[C]	<0.05	-	-	-	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05

See notes on last page

Table 8
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Clarington Tranformer Station
Hydro One Networks Inc.

Aquifer Unit			Thorncliffe Formation (Contd.)										
Sample Date			12-Nov-14	12-Nov-14	10-Feb-15	24-Feb-15	10-Mar-15	8-Apr-15	6-Oct-15	11-Apr-16	2-Nov-16	24-Apr-17	17-Oct-17
Sample ID			WG-160900764-20141112-AD11	WG-160900764-20141112-AD11 FILTERED	WG-160900764-20150210-AD01	WG-160900764-20150224-AD01	WG-160900764-20150310-AD01	WG-160900764-20150408-AD04	WG-160900764-2015106-JK15	WG-160900764-20160411-JK4	WG-160900764-20161102-JK12	WG-160900764-20170424-JK3	WG-160900764-20171017-JK17
Water Type			Treated	Treated	Treated	Raw	Raw	Raw	Raw	Raw	Raw	Raw	Raw
Sample Tap			Inside (Kitchen)	Inside (Kitchen)	Inside (Kitchen)	Inside (Kitchen)	Inside (Kitchen)	Inside (Kitchen)	Inside (Kitchen)	Inside (Kitchen)	Inside (Kitchen)	Inside (Kitchen)	Inside (Kitchen)
Treatment Type			Sediment Filter	Sediment Filter	Sediment Filter	None	None	None	None	None	None	None	None
Sampling Company			STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC
Laboratory			MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX
Laboratory Work Order			B4L3740	B4L3740	B523926	B532599	B541661	B561586	B5K3284	B671945	B6N8820	B781996	B7N0778
Laboratory Sample ID			YK9094	YK9158	ZM1389	ZQ1897	ZU7235	ABP511	BCP443	CEE709	DJO302	EGP445	FIX857
Filtered	Units	ODWS	Total Metals	Lab Filtered SVOC	Total Metals	Total Metals	Total Metals	Total Metals	Total Metals	Total Metals	Total Metals	Total Metals	Total Metals
Semi-Volatile Organic Compounds													
Acenaphthene	µg/L	n/v	<0.2	<0.2	-	-	-	<0.2	<0.2	<0.2	<0.2	<0.2	<1
Acenaphthylene	µg/L	n/v	<0.2	<0.2	-	-	-	<0.2	<0.2	<0.2	<0.2	<0.2	<1
Anthracene	µg/L	n/v	<0.05	<0.05	<0.050	<0.050	<0.050	<0.05	<0.05	<0.05	<0.05	<0.05	<0.3
Benzo(a)anthracene	µg/L	n/v	<0.05	<0.05	<0.050	<0.050	<0.050	<0.05	<0.05	<0.05	<0.05	<0.05	<0.3
Benzo(a)pyrene	µg/L	0.01[B]	<0.01	<0.01	-	-	-	<0.01	<0.01	<0.01	<0.01	<0.01	***<0.05***
Benzo(b/j)fluoranthene	µg/L	n/v	<0.05	<0.05	-	-	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.3
Benzo(g,h,i)perylene	µg/L	n/v	<0.05	<0.05	-	-	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.3
Benzo(k)fluoranthene	µg/L	n/v	<0.05	<0.05	<0.050	<0.050	<0.050	<0.05	<0.05	<0.05	<0.05	<0.05	<0.3
Biphenyl, 1,1'- (Biphenyl)	µg/L	n/v	<0.1	<0.1	-	-	<0.050	<0.1	<0.1	<0.1	<0.1	<0.1	<0.5
Bis(2-Chloroethyl)ether	µg/L	n/v	<0.5	<0.5	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<3
Bis(2-Chloroisopropyl)ether	µg/L	n/v	<0.5	<0.5	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<3
Bis(2-Ethylhexyl)phthalate (DEHP)	µg/L	n/v	<1	<1	-	-	-	<1	<1	1	<1	<1	<5
Chloroaniline, 4-	µg/L	n/v	<1	<1	-	-	-	<1	<1	<1	<1	<1	<5
Chlorophenol, 2- (ortho-Chlorophenol)	µg/L	n/v	<0.1	<0.1	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.5
Chrysene	µg/L	n/v	<0.05	<0.05	-	-	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.3
Dibenzo(a,h)anthracene	µg/L	n/v	<0.1	<0.1	<0.050	<0.050	<0.050	<0.1	<0.1	<0.1	<0.1	<0.1	<0.5
Dichlorobenzidine, 3,3'-	µg/L	n/v	<0.5	<0.5	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<3
Dichlorophenol, 2,4-	µg/L	900[B] 0.3$_f$[D]	<0.1	<0.1	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	***<0.5***
Diethyl Phthalate	µg/L	n/v	0.3	0.3	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.5
Dimethyl Phthalate	µg/L	n/v	<0.1	<0.1	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.5
Dimethylphenol, 2,4-	µg/L	n/v	<0.5	<0.5	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<3
Dinitrophenol, 2,4-	µg/L	n/v	<2	<2	-	-	-	<2	<2	<2	<2	<2	<10
Dinitrotoluene, 2,4-	µg/L	n/v	<0.3	<0.3	-	-	-	<0.3	<0.3	<0.3	<0.3	<0.3	<1
Dinitrotoluene, 2,6-	µg/L	n/v	<0.3	<0.3	-	-	-	<0.3	<0.3	<0.3	<0.3	<0.3	<1
Fluoranthene	µg/L	n/v	<0.2	<0.2	-	-	-	<0.2	<0.2	<0.2	<0.2	<0.2	<1
Fluorene	µg/L	n/v	<0.2	<0.2	-	-	-	<0.2	<0.2	<0.2	<0.2	<0.2	<1
Indeno(1,2,3-cd)pyrene	µg/L	n/v	<0.1	<0.1	<0.050	<0.050	<0.050	<0.1	<0.1	<0.1	<0.1	<0.1	<0.5
Methylnaphthalene (Total)	µg/L	n/v	<0.28	<0.28	<0.071	<0.071	<0.071	<0.28	<0.28	<0.28	<0.28	<0.28	<1.4
Methylnaphthalene, 1-	µg/L	n/v	<0.2	<0.2	<0.050	<0.050	<0.050	<0.2	<0.2	<0.2	<0.2	<0.2	<1
Methylnaphthalene, 2-	µg/L	n/v	<0.2	<0.2	<0.050	<0.050	<0.050	<0.2	<0.2	<0.2	<0.2	<0.2	<1
Naphthalene	µg/L	n/v	<0.2	<0.2	-	-	-	<0.2	<0.2	<0.2	<0.2	<0.2	<1
Pentachlorophenol	µg/L	60[B] 30$_f$[D]	<0.1	<0.1	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.5
Phenanthrene	µg/L	n/v	<0.1	<0.1	<0.030	<0.030	<0.030	<0.1	<0.1	<0.1	<0.1	<0.1	<0.5
Phenol	µg/L	n/v	<0.5	<0.5	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<3
Pyrene	µg/L	n/v	<0.05	<0.05	-	-	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.3
Trichlorobenzene, 1,2,4-	µg/L	n/v	<0.1	<0.1	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.5
Trichlorophenol, 2,4,5-	µg/L	n/v	<0.2	<0.2	-	-	-	<0.2	<0.2	<0.2	<0.2	<0.2	<1
Trichlorophenol, 2,4,6-	µg/L	5[B] 2$_f$[D]	<0.2	<0.2	-	-	-	<0.2	<0.2	<0.2	<0.2	<0.2	<1
Volatile Organic Compounds													
Acetone	µg/L	n/v	<10	-	-	-	-	<10	<10	<10	<10	<10	<10
Bromodichloromethane	µg/L	n/v	<0.50	-	-	-	-	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Bromoform (Tribromomethane)	µg/L	n/v	<1.0	-	-	-	-	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromomethane (Methyl bromide)	µg/L	n/v	<0.50	-	-	-	-	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Carbon Tetrachloride (Tetrachloromethane)	µg/L	2[B]	<0.20	-	-	-	-	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Chlorobenzene (Monochlorobenzene)	µg/L	80[B] 30$_f$[D]	<0.20	-	-	-	-	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Chloroform (Trichloromethane)	µg/L	n/v	<0.20	-	-	-	-	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Dibromochloromethane	µg/L	n/v	<0.50	-	-	-	-	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Dichlorobenzene, 1,2-	µg/L	200[B] 3$_f$[D]	<0.50	-	-	-	-	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Dichlorobenzene, 1,3-	µg/L	n/v	<0.50	-	-	-	-	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Dichlorobenzene, 1,4-	µg/L	5[B] 1$_f$[D]	<0.50	-	-	-	-	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Dichlorodifluoromethane (Freon 12)	µg/L	n/v	<1.0	-	-	-	-	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Dichloroethane, 1,1-	µg/L	n/v	<0.20	-	-	-	-	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Dichloroethane, 1,2-	µg/L	5[C]	<0.50	-	-	-	-	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Dichloroethene, 1,1-	µg/L	14[B]	<0.20	-	-	-	-	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Dichloroethene, cis-1,2-	µg/L	n/v	<0.50	-	-	-	-	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Dichloroethene, trans-1,2-	µg/L	n/v	<0.50	-	-	-	-	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Dichloropropane, 1,2-	µg/L	n/v	<0.20	-	-	-	-	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Dichloropropene, 1,3- (sum of isomers cis + trans)	µg/L	n/v	<0.50	-	-	-	-	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Dichloropropene, cis-1,3-	µg/L	n/v	<0.30	-	-	-	-	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
Dichloropropene, trans-1,3-	µg/L	n/v	<0.40	-	-	-	-	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40
Ethylene Dibromide (Dibromoethane, 1,2-)	µg/L	n/v	<0.20	-	-	-	-	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Hexane (n-Hexane)	µg/L	n/v	<1.0	-	-	-	-	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Methyl Ethyl Ketone (MEK) (2-Butanone)	µg/L	n/v	<10	-	-	-	-	<10	<10	<10	<10	<10	<10
Methyl Isobutyl Ketone (MIBK)	µg/L	n/v	<5.0	-	-	-	-	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Methyl tert-butyl ether (MTBE)	µg/L	15[D]	<0.50	-	-	-	-	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Methylene Chloride (Dichloromethane)	µg/L	50[B]	<2.0	-	-	-	-	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Styrene	µg/L	n/v	<0.50	-	-	-	-	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Tetrachloroethane, 1,1,1,2-	µg/L	n/v	<0.50	-	-	-	-	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Tetrachloroethane, 1,1,2,2-	µg/L	n/v	<0.50	-	-	-	-	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Tetrachloroethene (PCE)	µg/L	10[B]	<0.20	-	-	-	-	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Trichloroethane, 1,1,1-	µg/L	n/v	<0.20	-	-	-	-	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Trichloroethane, 1,1,2-	µg/L	n/v	<0.50	-	-	-	-	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Trichloroethene (TCE)	µg/L	5[B]	<0.20	-	-	-	-	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Trichlorofluoromethane (Freon 11)	µg/L	n/v	<0.50	-	-	-	-	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Trihalomethanes	µg/L	100$_e$[B]	<0.20	-	-	-	-	<1	<0.20	<0.20	<1.0	<0.20	<1.0
Vinyl Chloride	µg/L	1[B]	<0.20	-	-	-	-	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20

See notes on last page

Table 8
Summary of Groundwater Analytical Results - Private Wells
Clarington Tranformer Station
Hydro One Networks Inc.

Aquifer Unit			Thorncliffe Formation									
Sample Date			1-Aug-14	7-Oct-14	11-Nov-14	11-Nov-14	15-Apr-15	7-Oct-15	11-Apr-16	2-Nov-16	24-Apr-17	16-Oct-17
Sample ID			WG-160900764-20140801-JK10	WG-160900764-20141007-AD13	WG-160900764-20141111-AD07	WG-160900764-20141111-AD08	WG-160900764-20150415-JK6	WG-160900764-20151007-JK19	WG-160900764-20160411-JK5	WG-160900764-20161102-JK11	WG-160900764-20170424-JK6	WG-160900764-20171016-JK2
Water Type			Treated	Raw	Treated	Raw	Treated	Raw	Raw	Raw	Raw	Raw
Sample Tap			Outside (Back house)	Inside (Basement Pressure Tank)	Outside (Back house)	Inside (Basement Pressure Tank)	Outside (Back house)	Outside (Back house)	Outside (Back house)	Outside (Back house)	Outside (Back house)	Outside (Back house)
Treatment Type			Softener	None	Softener	None	None	None	None	None	None	None
Sampling Company			STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC
Laboratory			MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX
Laboratory Work Order			B4D8040	B4I7101	B4L2726	B4L2726	B567144	B5K5099	B671945	B6N8820	B781996	B7M9357
Laboratory Sample ID			WY7364	XX2940	YK4127	YK4128	ACQ224	BCZ442	CEE710	DJO301	EGP448	FIP272
Filtered	Units	ODWS	Lab Filtered Metals	Total Metals	Total Metals	Total Metals	Total Metals	Total Metals	Total Metals	Total Metals	Total Metals	Total Metals
General Chemistry												
Acidity	mg/L	n/v	<10	<10	<10	13	<10	<10	16	15	18	8.6
Alkalinity, Bicarbonate (as CaCO3)	mg/L	n/v	200	200	200	200	200	200	210	200	210	210
Alkalinity, Carbonate (as CaCO3)	mg/L	n/v	3.5	2.2	2.9	2.1	2.3	1.4	1.2	1.9	2.0	2.2
Alkalinity, Total (as CaCO3)	mg/L	30-500[E]	200	210	200	200	200	200	210	210	210	210
Ammonia (as N)	mg/L	n/v	<0.050	<0.050	0.052	0.11	<0.05	<0.050	<0.050	<0.050	<0.050	<0.050
Anion Sum	me/L	n/v	5.41	5.71	5.58	5.80	5.37	5.47	5.67	5.64	5.59	5.64
Cation Sum	me/L	n/v	5.18	5.74	5.89	5.86	5.08	5.75	5.74	5.59	5.70	5.61
Chloride	mg/L	250[D]	12	12	13	13	12	13	13	12	12	12
Cyanide (Free)	µg/L	200[B]	<2	<2	<2	<2	<2	<2	<2	<1	<1	<1
Dissolved Organic Carbon (DOC)	mg/L	5[D]	0.60	0.65	0.62	0.63	0.48	0.63	0.61	0.77	0.58	0.62
Electrical Conductivity, Lab	µmhos/cm	n/v	560	530	560	530	530	520	530	530	540	510
Fluoride	mg/L	1.5_b[B]	<0.10	<0.10	<0.10	<0.10	<0.1	<0.10	<0.10	<0.10	<0.10	0.12
Hardness (as CaCO3)	mg/L	80-100[E]	**<1.0[E]**	**270[E]**	**<1.0[E]**	**280[E]**	**<1.0[E]**	**260[E]**	**270[E]**	**260[E]**	**270[E]**	**260[E]**
Ion Balance	%	n/v	2.23	0.250	2.71	0.510	2.81	2.50	0.670	0.480	0.910	0.240
Langelier Index (at 20 C)	none	n/v	<0	0.835	<0	0.807	NC	0.626	0.551	0.739	0.797	0.814
Langelier Index (at 4 C)	none	n/v	<0	0.586	<0	0.558	NC	0.377	0.302	0.490	0.548	0.565
Nitrate (as N)	mg/L	10.0_d[B]	<0.10	<0.10	<0.10	<0.10	<0.1	<0.10	<0.10	<0.10	<0.10	<0.10
Nitrate + Nitrite (as N)	mg/L	10.0_d[B]	<0.10	<0.10	<0.010	<0.010	<0.1	<0.10	<0.10	<0.10	<0.10	<0.10
Nitrite (as N)	mg/L	1.0_d[B]	<0.010	<0.010	<0.010	<0.010	<0.01	<0.010	<0.010	<0.010	<0.010	<0.010
Orthophosphate(as P)	mg/L	n/v	<0.010	<0.010	<0.010	<0.010	<0.01	<0.010	<0.010	<0.010	<0.010	<0.010
pH	S.U.	6.5-8.5[E]	8.28	8.07	8.20	8.05	8.09	7.88	7.77	7.99	8.01	8.05
Saturation pH (at 20 C)	none	n/v	<0	7.23	<0	7.24	NC	7.25	7.22	7.25	7.22	7.23
Saturation pH (at 4 C)	none	n/v	<0	7.48	<0	7.49	NC	7.50	7.47	7.50	7.47	7.48
Sulfate	mg/L	500_n[D]	52	59	58	69	48	55	54	56	51	53
Total Dissolved Solids	mg/L	500[D]	320	332	346	336	308	298	302	322	300	305
Total Organic Carbon	mg/L	n/v	0.46	0.65	0.58	0.59	0.57	0.61	0.69	0.54	0.41	0.89
Total Suspended Solids	mg/L	n/v	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Turbidity, Lab	NTU	5_{ij}[D, E]	0.2	**15[D]**	<0.2	0.8	2.7	**32[D]**	**21[D]**	**19[D]**	**18[D]**	**13[D]**
Metals												
Aluminum	µg/L	100[E]	<5.0	<5.0	<5.0	<5.0	<5	<5.0	<5.0	<5	<5.0	<5
Antimony	µg/L	6[C]	<0.50	<0.50	<0.50	<0.50	<0.5	<0.5	<0.50	<0.5	<0.50	<0.5
Arsenic	µg/L	25[C]	<1.0	<1.0	<1.0	<1.0	<1	<1	<1.0	<1	<1.0	<1
Barium	µg/L	1,000[B]	<2.0	85	<2.0	85	<2	82	90	83	82	80
Beryllium	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.5	<0.5	<0.50	<0.5	<0.50	<0.5
Boron	µg/L	5,000[C]	<10	<10	10	<10	<10	<10	12	<10	<10	<10
Cadmium	µg/L	5[B]	<0.10	<0.10	<0.10	<0.10	<0.1	<0.1	<0.10	<0.1	<0.10	<0.1
Calcium	µg/L	n/v	<200	76,000	<200	77,000	<200	74,000	76,000	73,000	76,000	73,000
Chromium	µg/L	50[B]	<5.0	<5.0	<5.0	<5.0	<5	<5.0	<5.0	<5	<5.0	<5
Chromium (Hexavalent)	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.5	<0.50	<0.50	<0.50	<0.50	<0.50
Cobalt	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.5	<0.5	<0.50	<0.5	<0.50	<0.5
Copper	µg/L	1,000[D]	11	8.7	3.6	<1.0	160	2.8	19	<1	2.9	1.2
Iron	µg/L	300[D]	<100	**2,200[D]**	<100	**1,800[D]**	150	**2,600[D]**	**2,200[D]**	**1,800[D]**	**1,700[D]**	**2,300[D]**
Lead	µg/L	10_c[B]	<0.50	0.53	<0.50	<0.50	<0.5	<0.5	0.99	<0.5	<0.50	<0.5
Magnesium	µg/L	n/v	<50	20,000	<50	21,000	<50	19,000	20,000	20,000	19,000	20,000
Manganese	µg/L	50[D]	<2.0	35	<2.0	43	<2	**63[D]**	44	29	28	49
Mercury	µg/L	1[B]	<0.10	<0.10	<0.10	<0.10	<0.1	<0.1	<0.10	<0.1	<0.1	<0.1
Molybdenum	µg/L	n/v	1.3	1.1	0.99	1.1	0.99	1	1.3	1	1.1	1
Nickel	µg/L	n/v	<1.0	<1.0	<1.0	2.8	<1	<1	<1.0	<1	<1.0	<1
Phosphorus	µg/L	n/v	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
Potassium	µg/L	n/v	2,400	1,100	<200	1,200	<200	1,100	1,100	1,200	1,100	1,100
Selenium	µg/L	50[B]	<2.0	<2.0	<2.0	<2.0	<2	<2	<2.0	<2	<2.0	<2
Silicon	µg/L	n/v	4,800	5,300	4,900	5,000	3,800	4,700	5,000	4,800	5,000	4,800
Silver	µg/L	n/v	<0.10	<0.10	<0.10	<0.10	<0.1	<0.1	<0.10	<0.1	<0.10	<0.1
Sodium	µg/L	$200,000_g$[D] $20,000_g$[F]	**120,000[F]**	4,700	**140,000[F]**	5,000	**120,000[F]**	7,900	5,000	4,800	4,900	4,800
Strontium	µg/L	n/v	<1.0	240	<1.0	230	<1	220	250	230	220	230
Thallium	µg/L	n/v	<0.050	<0.050	<0.050	<0.050	<0.05	<0.05	<0.05	<0.05	<0.050	<0.05
Titanium	µg/L	n/v	<5.0	<5.0	<5.0	<5.0	<5	<5.0	<5.0	<5	<5.0	<5
Uranium	µg/L	20[B]	<0.10	<0.10	<0.10	<0.10	<0.1	<0.1	<0.10	<0.1	<0.10	<0.1
Vanadium	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.5	<0.5	<0.50	<0.5	<0.50	<0.5
Zinc	µg/L	5,000[D]	24	7.7	7.7	<5.0	<5	6.6	13	6.3	13	5.5
Zirconium	µg/L	n/v	<1.0	<1.0	<1.0	<1.0	<1	<1	<1.0	<1	<1.0	<1
Microbiological Analysis												
Escherichia coli (E.Coli)	cfu/100mL	0[A]	-	0	0	0	0	0	0	0	0	0
Total Coliform Background	cfu/100mL	n/v	-	0	0	0	1	0	0	0	0	0
Total Coliforms	cfu/100mL	0[A]	-	0	0	0	0	0	0	0	0	0
BTEX and Petroleum Hydrocarbons												
Benzene	µg/L	1[B]	<0.20	<0.20	<0.20	<0.20	<0.2	<0.20	<0.20	<0.20	<0.20	<0.20
Toluene	µg/L	60[B] 24[D]	<0.20	<0.20	<0.20	<0.20	<0.2	<0.20	<0.20	<0.20	<0.20	<0.20
Ethylbenzene	µg/L	140[B] 1.6[D]	<0.20	<0.20	<0.20	<0.20	<0.2	<0.20	<0.20	<0.20	<0.20	<0.20
Xylene, m & p-	µg/L	300_{sl}[D]	<0.20	<0.20	<0.20	<0.20	<0.2	<0.40	<0.40	<0.20	<0.20	<0.20
Xylene, o-	µg/L	300_{sl}[D]	<0.20	<0.20	<0.20	<0.20	<0.2	<0.20	<0.20	<0.20	<0.20	<0.20
Xylenes, Total	µg/L	90[B] 20[D]	<0.20	<0.20	<0.20	<0.20	<0.2	<0.40	<0.40	<0.20	<0.20	<0.20
PHC F1 (C6-C10 range)	µg/L	n/v	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
PHC F1 (C6-C10 range) minus BTEX	µg/L	n/v	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
PHC F2 (>C10-C16 range)	µg/L	n/v	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
PHC F3 (>C16-C34 range)	µg/L	n/v	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200
PHC F4 (>C34-C50 range)	µg/L	n/v	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200
Chromatogram to baseline at C50	none	n/v	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
Polychlorinated Biphenyls												
Aroclor 1242	µg/L	n/v	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Aroclor 1248	µg/L	n/v	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Aroclor 1254	µg/L	n/v	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Aroclor 1260	µg/L	n/v	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Polychlorinated Biphenyls (PCBs)	µg/L	3[C]	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05

See notes on last page

Table 8
Summary of Groundwater Analytical Results - Private Wells
Clarington Tranformer Station
Hydro One Networks Inc.

Aquifer Unit			Thorncliffe Formation									
Sample Date			1-Aug-14	7-Oct-14	11-Nov-14	11-Nov-14	15-Apr-15	7-Oct-15	11-Apr-16	2-Nov-16	24-Apr-17	16-Oct-17
Sample ID			WG-160900764-20140801-JK10	WG-160900764-20141007-AD13	WG-160900764-20141111-AD07	WG-160900764-20141111-AD08	WG-160900764-20150415-JK6	WG-160900764-20151007-JK19	WG-160900764-20160411-JK5	WG-160900764-20161102-JK11	WG-160900764-20170424-JK6	WG-160900764-20171016-JK2
Water Type			Treated	Raw	Treated	Raw	Treated	Raw	Raw	Raw	Raw	Raw
Sample Tap			Outside (Back house)	Inside (Basement Pressure Tank)	Outside (Back house)	Inside (Basement Pressure Tank)	Outside (Back house)	Outside (Back house)	Outside (Back house)	Outside (Back house)	Outside (Back house)	Outside (Back house)
Treatment Type			Softener	None	Softener	None	None	None	None	None	None	None
Sampling Company			STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC
Laboratory			MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX
Laboratory Work Order			B4D8040	B4I7101	B4L2726	B4L2726	B567144	B5K5099	B671945	B6N8820	B781996	B7M9357
Laboratory Sample ID			WY7364	XX2940	YK4127	YK4128	ACQ224	BCZ442	CEE710	DJO301	EGP448	FIP272
Filtered	Units	ODWS	Lab Filtered Metals	Total Metals	Total Metals	Total Metals	Total Metals	Total Metals	Total Metals	Total Metals	Total Metals	Total Metals
Semi-Volatile Organic Compounds												
Acenaphthene	µg/L	n/v	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Acenaphthylene	µg/L	n/v	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Anthracene	µg/L	n/v	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(a)anthracene	µg/L	n/v	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(a)pyrene	µg/L	0.01[B]	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Benzo(b/j)fluoranthene	µg/L	n/v	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(g,h,i)perylene	µg/L	n/v	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(k)fluoranthene	µg/L	n/v	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Biphenyl, 1,1'- (Biphenyl)	µg/L	n/v	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Bis(2-Chloroethyl)ether	µg/L	n/v	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Bis(2-Chloroisopropyl)ether	µg/L	n/v	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Bis(2-Ethylhexyl)phthalate (DEHP)	µg/L	n/v	<1	<1	1	<1	<1	<1	<1	<1	2	<1
Chloroaniline, 4-	µg/L	n/v	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chlorophenol, 2- (ortho-Chlorophenol)	µg/L	n/v	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Chrysene	µg/L	n/v	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Dibenzo(a,h)anthracene	µg/L	n/v	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dichlorobenzidine, 3,3'-	µg/L	n/v	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Dichlorophenol, 2,4-	µg/L	900[B] 0.3_f[D]	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Diethyl Phthalate	µg/L	n/v	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dimethyl Phthalate	µg/L	n/v	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dimethylphenol, 2,4-	µg/L	n/v	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Dinitrophenol, 2,4-	µg/L	n/v	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Dinitrotoluene, 2,4-	µg/L	n/v	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Dinitrotoluene, 2,6-	µg/L	n/v	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Fluoranthene	µg/L	n/v	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Fluorene	µg/L	n/v	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Indeno(1,2,3-cd)pyrene	µg/L	n/v	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Methylnaphthalene (Total)	µg/L	n/v	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28
Methylnaphthalene, 1-	µg/L	n/v	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Methylnaphthalene, 2-	µg/L	n/v	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Naphthalene	µg/L	n/v	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Pentachlorophenol	µg/L	60[B] 30_f[D]	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	µg/L	n/v	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Phenol	µg/L	n/v	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Pyrene	µg/L	n/v	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Trichlorobenzene, 1,2,4-	µg/L	n/v	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Trichlorophenol, 2,4,5-	µg/L	n/v	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Trichlorophenol, 2,4,6-	µg/L	5[B] 2_f[D]	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Volatile Organic Compounds												
Acetone	µg/L	n/v	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Bromodichloromethane	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.5	<0.50	<0.50	<0.50	<0.50	<0.50
Bromoform (Tribromomethane)	µg/L	n/v	<1.0	<1.0	<1.0	<1.0	<1	<1.0	<1.0	<1.0	<1.0	<1.0
Bromomethane (Methyl bromide)	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.5	<0.50	<0.50	<0.50	<0.50	<0.50
Carbon Tetrachloride (Tetrachloromethane)	µg/L	2[B]	<0.20	<0.20	<0.20	<0.20	<0.2	<0.20	<0.20	<0.20	<0.20	<0.20
Chlorobenzene (Monochlorobenzene)	µg/L	80[B] 30_f[D]	<0.20	<0.20	<0.20	<0.20	<0.2	<0.20	<0.20	<0.20	<0.20	<0.20
Chloroform (Trichloromethane)	µg/L	n/v	<0.20	<0.20	<0.20	<0.20	<0.2	0.21	<0.20	<0.20	<0.20	<0.20
Dibromochloromethane	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.5	<0.50	<0.50	<0.50	<0.50	<0.50
Dichlorobenzene, 1,2-	µg/L	200[B] 3_f[D]	<0.50	<0.50	<0.50	<0.50	<0.5	<0.50	<0.50	<0.50	<0.50	<0.50
Dichlorobenzene, 1,3-	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.5	<0.50	<0.50	<0.50	<0.50	<0.50
Dichlorobenzene, 1,4-	µg/L	5[B] 1_f[D]	<0.50	<0.50	<0.50	<0.50	<0.5	<0.50	<0.50	<0.50	<0.50	<0.50
Dichlorodifluoromethane (Freon 12)	µg/L	n/v	<1.0	<1.0	<1.0	<1.0	<1	<1.0	<1.0	<1.0	<1.0	<1.0
Dichloroethane, 1,1-	µg/L	n/v	<0.20	<0.20	<0.20	<0.20	<0.2	<0.20	<0.20	<0.20	<0.20	<0.20
Dichloroethane, 1,2-	µg/L	5[C]	<0.50	<0.50	<0.50	<0.50	<0.5	<0.50	<0.50	<0.50	<0.50	<0.50
Dichloroethene, 1,1-	µg/L	14[B]	<0.20	<0.20	<0.20	<0.20	<0.2	<0.20	<0.20	<0.20	<0.20	<0.20
Dichloroethene, cis-1,2-	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.5	<0.50	<0.50	<0.50	<0.50	<0.50
Dichloroethene, trans-1,2-	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.5	<0.50	<0.50	<0.50	<0.50	<0.50
Dichloropropane, 1,2-	µg/L	n/v	<0.20	<0.20	<0.20	<0.20	<0.2	<0.20	<0.20	<0.20	<0.20	<0.20
Dichloropropene, 1,3- (sum of isomers cis + trans)	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.5	<0.50	<0.50	<0.50	<0.50	<0.50
Dichloropropene, cis-1,3-	µg/L	n/v	<0.30	<0.30	<0.30	<0.30	<0.3	<0.30	<0.30	<0.30	<0.30	<0.30
Dichloropropene, trans-1,3-	µg/L	n/v	<0.40	<0.40	<0.40	<0.40	<0.4	<0.40	<0.40	<0.40	<0.40	<0.40
Ethylene Dibromide (Dibromoethane, 1,2-)	µg/L	n/v	<0.20	<0.20	<0.20	<0.20	<0.2	<0.20	<0.20	<0.20	<0.20	<0.20
Hexane (n-Hexane)	µg/L	n/v	<1.0	<1.0	<1.0	<1.0	<1	<1.0	<1.0	<1.0	<1.0	<1.0
Methyl Ethyl Ketone (MEK) (2-Butanone)	µg/L	n/v	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Methyl Isobutyl Ketone (MIBK)	µg/L	n/v	<5.0	<5.0	<5.0	<5.0	<5	<5.0	<5.0	<5.0	<5.0	<5.0
Methyl tert-butyl ether (MTBE)	µg/L	15[D]	<0.50	<0.50	<0.50	<0.50	<0.5	<0.50	<0.50	<0.50	<0.50	<0.50
Methylene Chloride (Dichloromethane)	µg/L	50[B]	<2.0	<2.0	<2.0	<2.0	<2	<2.0	<2.0	<2.0	<2.0	<2.0
Styrene	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.5	<0.50	<0.50	<0.50	<0.50	<0.50
Tetrachloroethane, 1,1,1,2-	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.5	<0.50	<0.50	<0.50	<0.50	<0.50
Tetrachloroethane, 1,1,2,2-	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.5	<0.50	<0.50	<0.50	<0.50	<0.50
Tetrachloroethene (PCE)	µg/L	10[B]	<0.20	<0.20	<0.20	<0.20	<0.2	<0.20	<0.20	<0.20	<0.20	<0.20
Trichloroethane, 1,1,1-	µg/L	n/v	<0.20	<0.20	<0.20	<0.20	<0.2	<0.20	<0.20	<0.20	<0.20	<0.20
Trichloroethane, 1,1,2-	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.5	<0.50	<0.50	<0.50	<0.50	<0.50
Trichloroethene (TCE)	µg/L	5[B]	<0.20	<0.20	<0.20	<0.20	<0.2	<0.20	<0.20	<0.20	<0.20	<0.20
Trichlorofluoromethane (Freon 11)	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.5	<0.50	<0.50	<0.50	<0.50	<0.50
Trihalomethanes	µg/L	100_e[B]	<0.20	<0.20	<0.20	<0.20	<1	<0.50	<0.20	<1.0	<0.20	<1.0
Vinyl Chloride	µg/L	1[B]	<0.20	<0.20	<0.20	<0.20	<0.2	<0.20	<0.20	<0.20	<0.20	<0.20

See notes on last page

Table 8
Summary of Groundwater Analytical Results - Private Wells
Clarington Tranformer Station
Hydro One Networks Inc.

Aquifer Unit			Thorncliffe Formation										
Sample Date			5-Aug-14	6-Oct-14	12-Nov-14	12-Nov-14	15-Apr-15	5-Oct-15	28-Oct-15	11-Apr-16	1-Nov-16	25-Apr-17	17-Oct-17
Sample ID			WG-160900764-20140805-JK13	WG-160900764-20141006-AD07	WG-160900764-20141112-AD14	WG-160900764-20141112-AD14 FILTERED	WG-160900764-20150415-JK3	WG-160900764-20151005-JK2	WG-160900764-20151028-JK2	WG-160900764-20160411-JK6	WG-160900764-20161101-JK3	WG-160900764-20170425-JK11	WG-160900764-20171017-JK9
Water Type			Treated	Treated	Treated	Treated	Treated	Treated	Treated	Treated	Treated	Treated	Treated
Sample Tap			Outside (Back house)	Outside (Back house)	Outside (Back house)	Outside (Back house)	Outside (Back house)	Outside (Back house)	Outside (Back house)	Outside (Back house)	Outside (Back house)	Outside (Back house)	Outside (Back house)
Treatment Type			Softener	Softener	Softener	Softener	Softener	Softener	Softener	Softener	Softener	Softener	Softener
Sampling Company			STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC
Laboratory			MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX
Laboratory Work Order			B4D9335	B4I6091	B4L3740	B4L3740	B567144	B5K2703	B5M1891	B671945	B6N7539	B783174	B7N0778
Laboratory Sample ID			WZ3802	XW7261	YK9097	YK9161	ACQ221	BCM867	BGI095	CEE711	DJI429	EGU897	FIX849
Filtered	Units	ODWS	ab Filtered Meta	Total Metals	Total Metals	Lab Filtered SVOC	Total Metals	Total Metals	Total Metals	Total Metals	Total Metals	Total Metals	Total Metals
General Chemistry													
Acidity	mg/L	n/v	<10	<10	<10	-	<10	<10	-	<10	<10	<10	<5.0
Alkalinity, Bicarbonate (as CaCO3)	mg/L	n/v	120	120	120	-	130	130	-	130	120	120	130
Alkalinity, Carbonate (as CaCO3)	mg/L	n/v	1.4	1.9	1.8	-	<1	<1.0	-	<1.0	1.8	1.6	2.0
Alkalinity, Total (as CaCO3)	mg/L	30-500[E]	120	120	130	-	130	130	-	130	120	120	130
Ammonia (as N)	mg/L	n/v	0.12	0.11	0.095	-	0.13	0.30	-	0.099	0.11	0.080	0.12
Anion Sum	me/L	n/v	3.17	3.25	3.24	-	3.30	3.35	-	3.43	3.30	3.21	3.36
Cation Sum	me/L	n/v	3.16	3.10	3.30	-	3.23	3.25	-	3.09	3.16	3.15	3.00
Chloride	mg/L	250[D]	2	2	2	-	1	1.6	-	1.9	2.7	2.1	1.6
Cyanide (Free)	µg/L	200[B]	<2	<2	<2	-	<2	<2	-	<2	<1	<1	<1
Dissolved Organic Carbon (DOC)	mg/L	5[D]	0.48	0.70	0.62	-	0.48	0.65	-	0.64	0.66	0.62	0.66
Electrical Conductivity, Lab	µmhos/cm	n/v	300	310	310	-	300	300	-	300	310	300	300
Fluoride	mg/L	1.5$_b$[B]	0.35	0.36	0.37	-	0.39	0.38	-	0.39	0.39	0.36	0.40
Hardness (as CaCO3)	mg/L	80-100[E]	87	88	92	-	89	89	-	87	88	86	85
Ion Balance	%	n/v	0.170	2.30	0.920	-	1.06	1.54	-	5.18	2.23	0.930	5.58
Langelier Index (at 20 C)	none	n/v	0.0200	0.157	0.154	-	-0.514	-0.374	-	-0.347	0.126	0.0810	0.175
Langelier Index (at 4 C)	none	n/v	-0.230	-0.0930	-0.0960	-	-0.764	-0.624	-	-0.597	-0.124	-0.169	-0.0750
Nitrate (as N)	mg/L	10.0$_d$[B]	<0.10	<0.10	<0.10	-	<0.1	<0.10	-	<0.10	<0.10	<0.10	<0.10
Nitrate + Nitrite (as N)	mg/L	10.0$_d$[B]	<0.10	<0.010	<0.010	-	<0.1	<0.10	-	<0.10	<0.10	<0.10	<0.10
Nitrite (as N)	mg/L	1.0$_d$[B]	<0.010	<0.010	<0.010	-	<0.01	<0.010	-	<0.010	<0.010	<0.010	<0.010
Orthophosphate(as P)	mg/L	n/v	<0.010	<0.010	<0.010	-	<0.01	<0.010	-	<0.010	<0.010	<0.010	0.016
pH	S.U.	6.5-8.5[E]	8.08	8.21	8.18	-	7.54	7.68	-	7.66	8.19	8.14	8.22
Saturation pH (at 20 C)	none	n/v	8.06	8.05	8.03	-	8.05	8.05	-	8.01	8.07	8.06	8.05
Saturation pH (at 4 C)	none	n/v	8.31	8.30	8.28	-	8.30	8.30	-	8.26	8.32	8.31	8.30
Sulfate	mg/L	500$_n$[D]	32	33	32	-	33	34	-	34	34	32	34
Total Dissolved Solids	mg/L	500[D]	166	160	160	-	166	176	-	176	182	138	165
Total Organic Carbon	mg/L	n/v	0.55	0.61	1.0	-	0.62	0.64	-	0.69	0.55	0.68	0.66
Total Suspended Solids	mg/L	n/v	<10	<10	<10	-	<10	<10	-	<10	<10	<10	<10
Turbidity, Lab	NTU	5$_{ij}$[D,E]	1.5	1.0	0.5	-	<0.2	<0.2	-	0.3	0.2	0.2	0.3
Metals													
Aluminum	µg/L	100[E]	<5.0	5.2	<5.0	-	<5	6.9	-	<5.0	<5	<5.0	<5
Antimony	µg/L	6[C]	<0.50	<0.50	<0.50	-	<0.5	<0.5	-	<0.50	<0.5	<0.50	<0.5
Arsenic	µg/L	25[C]	2.8	2.9	2.9	-	3.1	2.7	-	2.7	2.7	2.8	3
Barium	µg/L	1,000[B]	34	34	33	-	33	32	-	35	33	33	35
Beryllium	µg/L	n/v	<0.50	<0.50	<0.50	-	<0.5	<0.5	-	<0.50	<0.5	<0.50	<0.5
Boron	µg/L	5,000[C]	78	70	76	-	74	75	-	76	66	81	66
Cadmium	µg/L	5[B]	<0.10	<0.10	<0.10	-	<0.1	<0.1	-	<0.10	<0.1	<0.10	<0.1
Calcium	µg/L	n/v	17,000	17,000	18,000	-	16,000	17,000	-	17,000	16,000	16,000	16,000
Chromium	µg/L	50[B]	<5.0	<5.0	<5.0	-	<5	<5.0	-	<5.0	<5	<5.0	<5
Chromium (Hexavalent)	µg/L	n/v	<0.50	<0.50	<0.50	-	<0.5	<0.50	-	<0.50	<0.50	<0.50	<0.50
Cobalt	µg/L	n/v	<0.50	<0.50	<0.50	-	<0.5	<0.5	-	<0.50	<0.5	<0.50	<0.5
Copper	µg/L	1,000[D]	3.0	<1.0	<1.0	-	<1	13	-	<1.0	<1	<1.0	<1
Iron	µg/L	300[D]	<100	<100	140	-	<100	<100	-	<100	<100	<100	<100
Lead	µg/L	10$_c$[B]	<0.50	<0.50	<0.50	-	<0.5	<0.5	-	<0.50	<0.5	<0.50	<0.5
Magnesium	µg/L	n/v	11,000	11,000	12,000	-	12,000	12,000	-	11,000	11,000	11,000	11,000
Manganese	µg/L	50[D]	9.6	9.1	11	-	9.4	12	-	9.1	7.5	9.8	7.3
Mercury	µg/L	1[B]	<0.10	<0.10	<0.1	-	<0.1	<0.1	-	<0.10	<0.1	<0.1	<0.1
Molybdenum	µg/L	n/v	5.2	5.1	5.2	-	5.2	5.7	-	5.4	5.2	5.4	5.1
Nickel	µg/L	n/v	1.6	<1.0	<1.0	-	<1	<1	-	<1.0	<1	<1.0	<1
Phosphorus	µg/L	n/v	<100	<100	<100	-	<100	<100	-	<100	<100	<100	<100
Potassium	µg/L	n/v	870	800	800	-	850	820	-	710	850	860	800
Selenium	µg/L	50[B]	<2.0	<2.0	<2.0	-	<2	<2	-	<2.0	<2	<2.0	<2
Silicon	µg/L	n/v	6,700	6,700	6,300	-	5,700	6,600	-	6,200	6,000	6,200	6,200
Silver	µg/L	n/v	<0.10	<0.10	<0.10	-	<0.1	<0.1	-	<0.10	<0.1	<0.10	<0.1
Sodium	µg/L	200,000$_g$[D] 20,000$_g$[F]	**32,000[F]**	**30,000[F]**	**33,000[F]**	-	**33,000[F]**	**33,000[F]**	-	**30,000[F]**	**31,000[F]**	**32,000[F]**	**29,000[F]**
Strontium	µg/L	n/v	360	380	370	-	390	360	-	390	350	360	370
Thallium	µg/L	n/v	<0.050	<0.050	<0.050	-	<0.05	<0.05	-	<0.05	<0.05	<0.050	<0.05
Titanium	µg/L	n/v	<5.0	<5.0	<5.0	-	<5	<5.0	-	<5.0	<5	<5.0	<5
Uranium	µg/L	20[B]	0.41	0.44	0.48	-	0.48	0.33	-	0.45	0.48	0.43	0.47
Vanadium	µg/L	n/v	<0.50	<0.50	<0.50	-	<0.5	<0.5	-	<0.50	<0.5	<0.50	<0.5
Zinc	µg/L	5,000[D]	<5.0	<5.0	<5.0	-	<5	14	-	<5.0	<5	<5.0	<5
Zirconium	µg/L	n/v	<1.0	<1.0	<1.0	-	<1	<1	-	<1.0	<1	<1.0	<1
Microbiological Analysis													
Escherichia coli (E.Coli)	cfu/100mL	0[A]	-	0	0	-	0	0	-	0	0	0	0
Total Coliform Background	cfu/100mL	n/v	-	0	0	-	0	0	-	0	0	0	0
Total Coliforms	cfu/100mL	0[A]	-	0	0	-	0	0	-	0	0	0	0
BTEX and Petroleum Hydrocarbons													
Benzene	µg/L	1[B]	<0.20	<0.20	<0.20	-	<0.2	<0.20	-	<0.20	<0.20	<0.20	<0.20
Toluene	µg/L	60[B] 24[D]	<0.20	<0.20	<0.20	-	<0.2	<0.20	-	<0.20	<0.20	<0.20	<0.20
Ethylbenzene	µg/L	140[B] 1.6[D]	<0.20	<0.20	<0.20	-	<0.2	<0.20	-	<0.20	<0.20	<0.20	<0.20
Xylene, m & p-	µg/L	300$_{s1}$[D]	<0.20	<0.20	<0.20	-	<0.2	<0.20	-	<0.40	<0.40	<0.20	<0.20
Xylene, o-	µg/L	300$_{s1}$[D]	<0.20	<0.20	<0.20	-	<0.2	<0.20	-	<0.20	<0.20	<0.20	<0.20
Xylenes, Total	µg/L	90[B] 20[D]	<0.20	<0.20	<0.20	-	<0.2	<0.20	-	<0.40	<0.40	<0.20	<0.20
PHC F1 (C6-C10 range)	µg/L	n/v	<25	<25	<25	-	<25	<25	-	<25	<25	<25	<25
PHC F1 (C6-C10 range) minus BTEX	µg/L	n/v	<25	<25	<25	-	<25	<25	-	<25	<25	<25	<25
PHC F2 (>C10-C16 range)	µg/L	n/v	<100	<100	<100	-	<100	<100	-	<100	<100	<100	<100
PHC F3 (>C16-C34 range)	µg/L	n/v	990	<200	<200	-	<200	440	-	<200	<200	<200	<200
PHC F4 (>C34-C50 range)	µg/L	n/v	460	<200	<200	-	<200	<200	-	<200	<200	<200	<200
Chromatogram to baseline at C50	none	n/v	YES	YES	YES	-	YES	YES	-	YES	YES	YES	YES
Polychlorinated Biphenyls													
Aroclor 1242	µg/L	n/v	<0.05	<0.05	<0.05	-	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.05
Aroclor 1248	µg/L	n/v	<0.05	<0.05	<0.05	-	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.05
Aroclor 1254	µg/L	n/v	<0.05	<0.05	<0.05	-	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.05
Aroclor 1260	µg/L	n/v	<0.05	<0.05	<0.05	-	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.05
Polychlorinated Biphenyls (PCBs)	µg/L	3[C]	<0.05	<0.05	<0.05	-	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.05

See notes on last page

Table 8
Summary of Groundwater Analytical Results - Private Wells
Clarington Tranformer Station
Hydro One Networks Inc.

Aquifer Unit			Thorncliffe Formation										
Sample Date			5-Aug-14	6-Oct-14	12-Nov-14	12-Nov-14	15-Apr-15	5-Oct-15	28-Oct-15	11-Apr-16	1-Nov-16	25-Apr-17	17-Oct-17
Sample ID			WG-160900764-20140805-JK13	WG-160900764-20141006-AD07	WG-160900764-20141112-AD14	WG-160900764-20141112-AD14 FILTERED	WG-160900764-20150415-JK3	WG-160900764-20151005-JK2	WG-160900764-20151028-JK2	WG-160900764-20160411-JK6	WG-160900764-20161101-JK3	WG-160900764-20170425-JK11	WG-160900764-20171017-JK9
Water Type			Treated	Treated	Treated	Treated	Treated	Treated	Treated	Treated	Treated	Treated	Treated
Sample Tap			Outside (Back house)	Outside (Back house)	Outside (Back house)	Outside (Back house)	Outside (Back house)	Outside (Back house)	Outside (Back house)	Outside (Back house)	Outside (Back house)	Outside (Back house)	Outside (Back house)
Treatment Type			Softener	Softener	Softener	Softener	Softener	Softener	Softener	Softener	Softener	Softener	Softener
Sampling Company			STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC
Laboratory			MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX
Laboratory Work Order			B4D9335	B4I6091	B4L3740	B4L3740	B567144	B5K2703	B5M1891	B671945	B6N7539	B783174	B7N0778
Laboratory Sample ID			WZ3802	XW7261	YK9097	YK9161	ACQ221	BCM867	BGI095	CEE711	DJI429	EGU897	FIX849
Filtered	Units	ODWS	ab Filtered Meta	Total Metals	Total Metals	Lab Filtered SVOC	Total Metals	Total Metals	Total Metals	Total Metals	Total Metals	Total Metals	Total Metals
Semi-Volatile Organic Compounds													
Acenaphthene	µg/L	n/v	<0.2	<0.2	<0.2	<0.2	<0.2	<0.6	<0.2	<0.2	<0.2	<0.2	<0.2
Acenaphthylene	µg/L	n/v	<0.2	<0.2	<0.2	<0.2	<0.2	<0.6	<0.2	<0.2	<0.2	<0.2	<0.2
Anthracene	µg/L	n/v	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(a)anthracene	µg/L	n/v	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(a)pyrene	µg/L	0.01[B]	<0.01	<0.01	<0.01	<0.01	0.01	***<0.03***	<0.01	<0.01	<0.01	<0.01	<0.01
Benzo(b/j)fluoranthene	µg/L	n/v	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(g,h,i)perylene	µg/L	n/v	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(k)fluoranthene	µg/L	n/v	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05	<0.05
Biphenyl, 1,1'- (Biphenyl)	µg/L	n/v	<0.1	<0.1	<0.1	<0.1	<0.1	<0.3	<0.1	<0.1	<0.1	<0.1	<0.1
Bis(2-Chloroethyl)ether	µg/L	n/v	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5
Bis(2-Chloroisopropyl)ether	µg/L	n/v	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5
Bis(2-Ethylhexyl)phthalate (DEHP)	µg/L	n/v	<1	<1	<1	<1	<1	<3	<1	<1	<1	<1	<1
Chloroaniline, 4-	µg/L	n/v	<1	<1	<1	<1	<1	<3	<1	<1	<1	<1	<1
Chlorophenol, 2- (ortho-Chlorophenol)	µg/L	n/v	<0.1	<0.1	<0.1	<0.1	<0.1	<0.3	<0.1	<0.1	<0.1	<0.1	<0.1
Chrysene	µg/L	n/v	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05	<0.05
Dibenzo(a,h)anthracene	µg/L	n/v	<0.1	<0.1	<0.1	<0.1	<0.1	<0.3	<0.1	<0.1	<0.1	<0.1	<0.1
Dichlorobenzidine, 3,3'-	µg/L	n/v	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5
Dichlorophenol, 2,4-	µg/L	900[B] 0.3$_f$[D]	<0.1	<0.1	<0.1	<0.1	<0.1	<0.3	<0.1	<0.1	<0.1	<0.1	<0.1
Diethyl Phthalate	µg/L	n/v	<0.1	<0.1	0.3	0.3	<0.1	<0.3	<0.1	<0.1	<0.1	0.2	<0.1
Dimethyl Phthalate	µg/L	n/v	<0.1	<0.1	<0.1	<0.1	<0.1	<0.3	<0.1	<0.1	<0.1	<0.1	<0.1
Dimethylphenol, 2,4-	µg/L	n/v	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5
Dinitrophenol, 2,4-	µg/L	n/v	<2	<2	<2	<2	<2	<6	<2	<2	<2	<2	<2
Dinitrotoluene, 2,4-	µg/L	n/v	<0.3	<0.3	<0.3	<0.3	<0.3	<0.8	<0.3	<0.3	<0.3	<0.3	<0.3
Dinitrotoluene, 2,6-	µg/L	n/v	<0.3	<0.3	<0.3	<0.3	<0.3	<0.8	<0.3	<0.3	<0.3	<0.3	<0.3
Fluoranthene	µg/L	n/v	<0.2	<0.2	<0.2	<0.2	<0.2	<0.6	<0.2	<0.2	<0.2	<0.2	<0.2
Fluorene	µg/L	n/v	<0.2	<0.2	<0.2	<0.2	<0.2	<0.6	<0.2	<0.2	<0.2	<0.2	<0.2
Indeno(1,2,3-cd)pyrene	µg/L	n/v	<0.1	<0.1	<0.1	<0.1	<0.1	<0.3	<0.1	<0.1	<0.1	<0.1	<0.1
Methylnaphthalene (Total)	µg/L	n/v	<0.28	<0.28	<0.28	<0.28	<0.28	<0.85	<0.28	<0.28	<0.28	<0.28	<0.28
Methylnaphthalene, 1-	µg/L	n/v	<0.2	<0.2	<0.2	<0.2	<0.2	<0.6	<0.2	<0.2	<0.2	<0.2	<0.2
Methylnaphthalene, 2-	µg/L	n/v	<0.2	<0.2	<0.2	<0.2	<0.2	<0.6	<0.2	<0.2	<0.2	<0.2	<0.2
Naphthalene	µg/L	n/v	<0.2	<0.2	<0.2	<0.2	<0.2	<0.6	<0.2	<0.2	<0.2	<0.2	<0.2
Pentachlorophenol	µg/L	60[B] 30$_f$[D]	<0.1	<0.1	<0.1	<0.1	<0.1	<0.3	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	µg/L	n/v	<0.1	<0.1	<0.1	<0.1	<0.1	<0.3	<0.1	<0.1	<0.1	<0.1	<0.1
Phenol	µg/L	n/v	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5
Pyrene	µg/L	n/v	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05	<0.05
Trichlorobenzene, 1,2,4-	µg/L	n/v	<0.1	<0.1	<0.1	<0.1	<0.1	<0.3	<0.1	<0.1	<0.1	<0.1	<0.1
Trichlorophenol, 2,4,5-	µg/L	n/v	<0.2	<0.2	<0.2	<0.2	<0.2	<0.6	<0.2	<0.2	<0.2	<0.2	<0.2
Trichlorophenol, 2,4,6-	µg/L	5[B] 2$_f$[D]	<0.2	<0.2	<0.2	<0.2	<0.2	<0.6	<0.2	<0.2	<0.2	<0.2	<0.2
Volatile Organic Compounds													
Acetone	µg/L	n/v	<10	<10	<10	-	<10	<10	-	<10	<10	<10	<10
Bromodichloromethane	µg/L	n/v	<0.50	<0.50	<0.50	-	<0.5	<0.50	-	<0.50	<0.50	<0.50	<0.50
Bromoform (Tribromomethane)	µg/L	n/v	<1.0	<1.0	<1.0	-	<1	<1.0	-	<1.0	<1.0	<1.0	<1.0
Bromomethane (Methyl bromide)	µg/L	n/v	<0.50	<0.50	<0.50	-	<0.5	<0.50	-	<0.50	<0.50	<0.50	<0.50
Carbon Tetrachloride (Tetrachloromethane)	µg/L	2[B]	<0.20	<0.20	<0.20	-	<0.2	<0.20	-	<0.20	<0.20	<0.20	<0.20
Chlorobenzene (Monochlorobenzene)	µg/L	80[B] 30$_f$[D]	<0.20	<0.20	<0.20	-	<0.2	<0.20	-	<0.20	<0.20	<0.20	<0.20
Chloroform (Trichloromethane)	µg/L	n/v	<0.20	<0.20	<0.20	-	<0.2	<0.20	-	<0.20	<0.20	<0.20	<0.20
Dibromochloromethane	µg/L	n/v	<0.50	<0.50	<0.50	-	<0.5	<0.50	-	<0.50	<0.50	<0.50	<0.50
Dichlorobenzene, 1,2-	µg/L	200[B] 3$_f$[D]	<0.50	<0.50	<0.50	-	<0.5	<0.50	-	<0.50	<0.50	<0.50	<0.50
Dichlorobenzene, 1,3-	µg/L	n/v	<0.50	<0.50	<0.50	-	<0.5	<0.50	-	<0.50	<0.50	<0.50	<0.50
Dichlorobenzene, 1,4-	µg/L	5[B] 1$_f$[D]	<0.50	<0.50	<0.50	-	<0.5	<0.50	-	<0.50	<0.50	<0.50	<0.50
Dichlorodifluoromethane (Freon 12)	µg/L	n/v	<1.0	<1.0	<1.0	-	<1	<1.0	-	<1.0	<1.0	<1.0	<1.0
Dichloroethane, 1,1-	µg/L	n/v	<0.20	<0.20	<0.20	-	<0.2	<0.20	-	<0.20	<0.20	<0.20	<0.20
Dichloroethane, 1,2-	µg/L	5[C]	<0.50	<0.50	<0.50	-	<0.5	<0.50	-	<0.50	<0.50	<0.50	<0.50
Dichloroethene, 1,1-	µg/L	14[B]	<0.20	<0.20	<0.20	-	<0.2	<0.20	-	<0.20	<0.20	<0.20	<0.20
Dichloroethene, cis-1,2-	µg/L	n/v	<0.50	<0.50	<0.50	-	<0.5	<0.50	-	<0.50	<0.50	<0.50	<0.50
Dichloroethene, trans-1,2-	µg/L	n/v	<0.50	<0.50	<0.50	-	<0.5	<0.50	-	<0.50	<0.50	<0.50	<0.50
Dichloropropane, 1,2-	µg/L	n/v	<0.20	<0.20	<0.20	-	<0.2	<0.20	-	<0.20	<0.20	<0.20	<0.20
Dichloropropene, 1,3- (sum of isomers cis + trans)	µg/L	n/v	<0.50	<0.50	<0.50	-	<0.5	<0.50	-	<0.50	<0.50	<0.50	<0.50
Dichloropropene, cis-1,3-	µg/L	n/v	<0.30	<0.30	<0.30	-	<0.3	<0.30	-	<0.30	<0.30	<0.30	<0.30
Dichloropropene, trans-1,3-	µg/L	n/v	<0.40	<0.40	<0.40	-	<0.4	<0.40	-	<0.40	<0.40	<0.40	<0.40
Ethylene Dibromide (Dibromoethane, 1,2-)	µg/L	n/v	<0.20	<0.20	<0.20	-	<0.2	<0.20	-	<0.20	<0.20	<0.20	<0.20
Hexane (n-Hexane)	µg/L	n/v	<1.0	<1.0	<1.0	-	<1	<1.0	-	<1.0	<1.0	<1.0	<1.0
Methyl Ethyl Ketone (MEK) (2-Butanone)	µg/L	n/v	<10	<10	<10	-	<10	<10	-	<10	<10	<10	<10
Methyl Isobutyl Ketone (MIBK)	µg/L	n/v	<5.0	<5.0	<5.0	-	<5	<5.0	-	<5.0	<5.0	<5.0	<5.0
Methyl tert-butyl ether (MTBE)	µg/L	15[D]	<0.50	<0.50	<0.50	-	<0.5	<0.50	-	<0.50	<0.50	<0.50	<0.50
Methylene Chloride (Dichloromethane)	µg/L	50[B]	<2.0	<2.0	<2.0	-	<2	<2.0	-	<2.0	<2.0	<2.0	<2.0
Styrene	µg/L	n/v	<0.50	<0.50	<0.50	-	<0.5	<0.50	-	<0.50	<0.50	<0.50	<0.50
Tetrachloroethane, 1,1,1,2-	µg/L	n/v	<0.50	<0.50	<0.50	-	<0.5	<0.50	-	<0.50	<0.50	<0.50	<0.50
Tetrachloroethane, 1,1,2,2-	µg/L	n/v	<0.50	<0.50	<0.50	-	<0.5	<0.50	-	<0.50	<0.50	<0.50	<0.50
Tetrachloroethene (PCE)	µg/L	10[B]	<0.20	<0.20	<0.20	-	<0.2	<0.20	-	<0.20	<0.20	<0.20	<0.20
Trichloroethane, 1,1,1-	µg/L	n/v	<0.20	<0.20	<0.20	-	<0.2	<0.20	-	<0.20	<0.20	<0.20	<0.20
Trichloroethane, 1,1,2-	µg/L	n/v	<0.50	<0.50	<0.50	-	<0.5	<0.50	-	<0.50	<0.50	<0.50	<0.50
Trichloroethene (TCE)	µg/L	5[B]	<0.20	<0.20	<0.20	-	<0.2	<0.20	-	<0.20	<0.20	<0.20	<0.20
Trichlorofluoromethane (Freon 11)	µg/L	n/v	<0.50	<0.50	<0.50	-	<0.5	<0.50	-	<0.50	<0.50	<0.50	<0.50
Trihalomethanes	µg/L	100$_e$[B]	<0.20	<0.20	<0.20	-	<1	<0.20	-	<0.20	<1.0	<0.20	<1.0
Vinyl Chloride	µg/L	1[B]	<0.20	<0.20	<0.20	-	<0.2	<0.20	-	<0.20	<0.20	<0.20	<0.20

See notes on last page

Table 8
Summary of Groundwater Analytical Results - Private Wells
Clarington Tranformer Station
Hydro One Networks Inc.

Aquifer Unit			Thorncliffe Formation									
Sample Date			5-Aug-14	7-Oct-14	11-Nov-14	15-Apr-15	7-Oct-15	13-Apr-16	31-Oct-16	25-Apr-17	18-Oct-17	20-Aug-14
Sample ID			WG-160900764-20140805-JK15	WG-160900764-20141007-AD14	WG-160900764-20141111-AD04	WG-160900764-20150415-JK4	WG-160900764-20151007-JK21	WG-160900764-20160413-JK17	WG-160900764-2016111031-JK1	WG-160900764-20170425-JK10	WG-160900764-20171018-JK25	WG-160900764-20140820-HB02
Water Type			Raw	Raw	Raw	Raw	Raw	Raw	Raw	Raw	Raw	Raw
Sample Tap			Outside (Back house)	Outside (Back house)	Outside (Back house)	Outside (Back house)	Outside (Back house)	Outside (Back house)	Outside (Back house)	Outside (Back house)	Outside (Back house)	Outside (Back house)
Treatment Type			Softener	Softener / UV	Softener / UV	None	None	None	None	None	None	None
Sampling Company			STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC
Laboratory			MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX
Laboratory Work Order			B4D9335	B4I7101	B4L2726	B567144	B5K5099	B674120	B6N7539	B783174	B7N2030	B4F1595
Laboratory Sample ID			WZ3804	XX2941	YK4124	ACQ222	BCZ444	CEO960	DJI427	EGU896	FJE422	XF4726
Filtered	Units	ODWS	Lab Filtered Metals	Total Metals	Total Metals	Total Metals	Total Metals	Total Metals	Total Metals	Total Metals	Total Metals	Lab Filtered Metals
General Chemistry												
Acidity	mg/L	n/v	12	<10	16	13	12	27	12	17	5.4	14
Alkalinity, Bicarbonate (as CaCO3)	mg/L	n/v	220	210	220	230	210	360	220	230	220	210
Alkalinity, Carbonate (as CaCO3)	mg/L	n/v	2.0	2.1	2.2	<1	1.3	2.5	2.4	2.3	2.8	2.7
Alkalinity, Total (as CaCO3)	mg/L	30-500[E]	220	210	220	230	210	360	220	230	220	210
Ammonia (as N)	mg/L	n/v	<0.050	<0.050	<0.050	<0.05	<0.050	<0.050	<0.050	<0.050	<0.050	0.086
Anion Sum	me/L	n/v	6.15	5.86	6.18	6.37	5.98	7.56	6.04	6.06	6.15	5.70
Cation Sum	me/L	n/v	6.13	5.62	6.39	5.79	6.20	7.77	5.87	6.13	5.60	5.84
Chloride	mg/L	250[D]	16	13	16	16	15	2.1	15	14	15	13
Cyanide (Free)	µg/L	200[B]	<2	<2	<2	<2	<2	<2	<1	<1	<1	<2
Dissolved Organic Carbon (DOC)	mg/L	5[D]	0.46	0.69	0.65	0.58	0.71	1.3	0.74	0.86	0.67	0.46
Electrical Conductivity, Lab	µmhos/cm	n/v	580	550	590	580	570	680	600	600	620	540
Fluoride	mg/L	1.5$_b$[B]	<0.10	<0.10	<0.10	<0.1	<0.10	<0.10	<0.10	0.14	<0.10	<0.10
Hardness (as CaCO3)	mg/L	80-100[E]	**300[E]**	**260[E]**	**300[E]**	**260[E]**	**290[E]**	**2.0[E]**	**<1.0[E]**	**<1.0[E]**	**<1.0[E]**	**280[E]**
Ion Balance	%	n/v	0.180	2.09	1.70	4.78	1.81	1.42	1.49	0.570	4.68	1.24
Langelier Index (at 20 C)	none	n/v	0.848	0.817	0.886	0.481	0.660	-1.27	NC	-1.58	-1.62	0.931
Langelier Index (at 4 C)	none	n/v	0.599	0.568	0.637	0.232	0.411	-1.52	NC	-1.83	-1.87	0.682
Nitrate (as N)	mg/L	10.0$_d$[B]	8.93	6.06	9.35	9.62	8.23	0.10	6.59	6.23	8.02	<0.10
Nitrate + Nitrite (as N)	mg/L	10.0$_d$[B]	8.93	6.06	9.35	9.62	8.23	0.10	6.59	6.23	8.02	<0.10
Nitrite (as N)	mg/L	1.0$_d$[B]	<0.010	<0.010	<0.010	<0.01	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Orthophosphate(as P)	mg/L	n/v	<0.010	<0.010	<0.010	<0.01	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
pH	S.U.	6.5-8.5[E]	7.99	8.03	8.03	7.66	7.82	7.87	8.07	8.03	8.13	8.14
Saturation pH (at 20 C)	none	n/v	7.14	7.21	7.14	7.18	7.16	9.14	NC	9.61	9.75	7.21
Saturation pH (at 4 C)	none	n/v	7.39	7.46	7.39	7.42	7.41	9.39	NC	9.86	10.0	7.46
Sulfate	mg/L	500$_n$[D]	34	37	33	34	34	10	36	30	34	53
Total Dissolved Solids	mg/L	500[D]	340	322	352	334	316	394	416	348	365	324
Total Organic Carbon	mg/L	n/v	0.60	0.68	0.72	0.65	0.64	1.3	0.79	0.81	0.69	0.81
Total Suspended Solids	mg/L	n/v	12	<10	<10	<10	<10	<10	<10	<10	<10	30
Turbidity, Lab	NTU	5$_{ii}$[D, E]	1.5	<0.2	0.6	<0.2	0.7	0.3	0.4	0.2	<0.1	**18[D]**
Metals												
Aluminum	µg/L	100[E]	<5.0	<5.0	<5.0	<5	<5.0	<5.0	<5	<5.0	<5	<5.0
Antimony	µg/L	6[C]	<0.50	<0.50	<0.50	<0.5	<0.5	<0.50	<0.5	<0.50	<0.5	<0.50
Arsenic	µg/L	25[C]	<1.0	<1.0	<1.0	<1	<1	<1.0	<1	<1.0	<1	<1.0
Barium	µg/L	1,000[B]	52	47	54	47	54	<2.0	<2	<2.0	<2	40
Beryllium	µg/L	n/v	<0.50	<0.50	<0.50	<0.5	<0.5	<0.50	<0.5	<0.50	<0.5	<0.50
Boron	µg/L	5,000[C]	<10	11	<10	<10	<10	<10	<10	<10	<10	<10
Cadmium	µg/L	5[B]	<0.10	<0.10	<0.10	<0.1	<0.1	<0.10	<0.1	<0.10	<0.1	<0.10
Calcium	µg/L	n/v	90,000	76,000	89,000	79,000	86,000	550	<200	290	220	78,000
Chromium	µg/L	50[B]	<5.0	<5.0	<5.0	<5	<5.0	<5.0	<5	<5.0	<5	<5.0
Chromium (Hexavalent)	µg/L	n/v	<0.50	<0.50	<0.50	<0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Cobalt	µg/L	n/v	<0.50	<0.50	<0.50	<0.5	<0.5	<0.50	<0.5	<0.50	<0.5	<0.50
Copper	µg/L	1,000[D]	6.4	6.9	6.4	8.1	11	20	14	11	9	<1.0
Iron	µg/L	300[D]	<100	<100	270	<100	**660[D]**	<100	<100	<100	<100	<100
Lead	µg/L	10$_c$[B]	<0.50	<0.50	<0.50	<0.5	<0.5	<0.50	<0.5	0.50	<0.5	<0.50
Magnesium	µg/L	n/v	17,000	17,000	18,000	16,000	18,000	150	<50	<50	<50	21,000
Manganese	µg/L	50[D]	<2.0	<2.0	4.0	<2	26	<2.0	<2	<2.0	<2	24
Mercury	µg/L	1[B]	<0.10	<0.10	<0.10	<0.1	<0.1	<0.10	<0.1	<0.1	<0.1	<0.10
Molybdenum	µg/L	n/v	<0.50	0.51	<0.50	<0.5	<0.5	<0.50	<0.5	<0.50	<0.5	3.4
Nickel	µg/L	n/v	<1.0	<1.0	<1.0	<1	<1	<1.0	<1	<1.0	<1	<1.0
Phosphorus	µg/L	n/v	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
Potassium	µg/L	n/v	970	860	920	830	890	<200	<200	<200	54,000	1,100
Selenium	µg/L	50[B]	<2.0	<2.0	<2.0	<2	<2	<2.0	<2	<2.0	<2	<2.0
Silicon	µg/L	n/v	6,900	6,600	7,500	6,000	6,700	4,700	6,100	5,900	6,000	5,800
Silver	µg/L	n/v	<0.10	<0.10	<0.10	<0.1	<0.1	<0.10	<0.1	<0.10	<0.1	<0.10
Sodium	µg/L	200,000$_g$[D] 20,000$_g$[F]	4,300	9,700	9,600	12,000	9,000	**180,000[F]**	**130,000[F]**	**140,000[F]**	**97,000[F]**	4,300
Strontium	µg/L	n/v	220	210	220	210	220	<1.0	<1	<1.0	<1	270
Thallium	µg/L	n/v	<0.050	<0.050	<0.050	<0.05	<0.05	<0.05	<0.05	<0.050	<0.05	<0.050
Titanium	µg/L	n/v	<5.0	<5.0	<5.0	<5	<5.0	<5.0	<5	<5.0	<5	<5.0
Uranium	µg/L	20[B]	0.77	0.67	0.80	0.79	0.78	0.25	0.8	0.63	0.75	0.76
Vanadium	µg/L	n/v	<0.50	<0.50	<0.50	<0.5	<0.5	<0.50	<0.5	<0.50	<0.5	<0.50
Zinc	µg/L	5,000[D]	5.7	5.9	6.6	5.9	11	<5.0	<5	<5.0	<5	<5.0
Zirconium	µg/L	n/v	<1.0	<1.0	<1.0	<1	<1	<1.0	<1	<1.0	<1	<1.0
Microbiological Analysis												
Escherichia coli (E.Coli)	cfu/100mL	0[A]	-	0	0	0	0	0	0	0	0	0
Total Coliform Background	cfu/100mL	n/v	-	620	42	2	16	0	860	0	0	92
Total Coliforms	cfu/100mL	0[A]	-	0	0	0	0	0	0	0	0	**3[A]**
BTEX and Petroleum Hydrocarbons												
Benzene	µg/L	1[B]	<0.20	<0.20	<0.20	<0.2	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Toluene	µg/L	60[B] 24[D]	<0.20	<0.20	<0.20	<0.2	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Ethylbenzene	µg/L	140[B] 1.6[D]	<0.20	<0.20	<0.20	<0.2	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Xylene, m & p-	µg/L	300$_{sl}$[D]	<0.20	<0.20	<0.20	<0.2	<0.40	<0.20	<0.40	<0.20	<0.20	<0.20
Xylene, o-	µg/L	300$_{sl}$[D]	<0.20	<0.20	<0.20	<0.2	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Xylenes, Total	µg/L	90[B] 20[D]	<0.20	<0.20	<0.20	<0.2	<0.40	<0.20	<0.40	<0.20	<0.20	<0.20
PHC F1 (C6-C10 range)	µg/L	n/v	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
PHC F1 (C6-C10 range) minus BTEX	µg/L	n/v	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
PHC F2 (>C10-C16 range)	µg/L	n/v	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
PHC F3 (>C16-C34 range)	µg/L	n/v	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200
PHC F4 (>C34-C50 range)	µg/L	n/v	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200
Chromatogram to baseline at C50	none	n/v	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
Polychlorinated Biphenyls												
Aroclor 1242	µg/L	n/v	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Aroclor 1248	µg/L	n/v	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Aroclor 1254	µg/L	n/v	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Aroclor 1260	µg/L	n/v	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Polychlorinated Biphenyls (PCBs)	µg/L	3[C]	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05

See notes on last page

Table 8
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Clarington Tranformer Station
Hydro One Networks Inc.

Aquifer Unit			Thorncliffe Formation									
Sample Date			5-Aug-14	7-Oct-14	11-Nov-14	15-Apr-15	7-Oct-15	13-Apr-16	31-Oct-16	25-Apr-17	18-Oct-17	20-Aug-14
Sample ID			WG-160900764-20140805-JK15	WG-160900764-20141007-AD14	WG-160900764-20141111-AD04	WG-160900764-20150415-JK4	WG-160900764-20151007-JK21	WG-160900764-20160413-JK17	WG-160900764-2016111031-JK1	WG-160900764-20170425-JK10	WG-160900764-20171018-JK25	WG-160900764-20140820-HB02
Water Type			Raw	Raw	Raw	Raw	Raw	Raw	Raw	Raw	Raw	Raw
Sample Tap			Outside (Back house)	Outside (Back house)	Outside (Back house)	Outside (Back house)	Outside (Back house)	Outside (Back house)	Outside (Back house)	Outside (Back house)	Outside (Back house)	Outside (Back house)
Treatment Type			Softener	Softener / UV	Softener / UV	None	None	None	None	None	None	None
Sampling Company			STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC
Laboratory			MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX
Laboratory Work Order			B4D9335	B4I7101	B4L2726	B567144	B5K5099	B674120	B6N7539	B783174	B7N2030	B4F1595
Laboratory Sample ID			WZ3804	XX2941	YK4124	ACQ222	BCZ444	CEO960	DJI427	EGU896	FJE422	XF4726
Filtered	Units	ODWS	Lab Filtered Metals	Total Metals	Total Metals	Total Metals	Total Metals	Total Metals	Total Metals	Total Metals	Total Metals	Lab Filtered Metals
Semi-Volatile Organic Compounds												
Acenaphthene	µg/L	n/v	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Acenaphthylene	µg/L	n/v	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Anthracene	µg/L	n/v	<0.05	<0.05	<0.05	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(a)anthracene	µg/L	n/v	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(a)pyrene	µg/L	0.01[B]	<0.01	<0.01	<0.01	**0.03[B]**	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Benzo(b/j)fluoranthene	µg/L	n/v	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(g,h,i)perylene	µg/L	n/v	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(k)fluoranthene	µg/L	n/v	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Biphenyl, 1,1'- (Biphenyl)	µg/L	n/v	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Bis(2-Chloroethyl)ether	µg/L	n/v	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Bis(2-Chloroisopropyl)ether	µg/L	n/v	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Bis(2-Ethylhexyl)phthalate (DEHP)	µg/L	n/v	<1	<1	<1	<1	<1	<1	<1	<1	<1	2
Chloroaniline, 4-	µg/L	n/v	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chlorophenol, 2- (ortho-Chlorophenol)	µg/L	n/v	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Chrysene	µg/L	n/v	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Dibenzo(a,h)anthracene	µg/L	n/v	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dichlorobenzidine, 3,3'-	µg/L	n/v	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Dichlorophenol, 2,4-	µg/L	900[B] 0.3_f[D]	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Diethyl Phthalate	µg/L	n/v	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.2	<0.1	<0.1
Dimethyl Phthalate	µg/L	n/v	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dimethylphenol, 2,4-	µg/L	n/v	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Dinitrophenol, 2,4-	µg/L	n/v	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Dinitrotoluene, 2,4-	µg/L	n/v	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Dinitrotoluene, 2,6-	µg/L	n/v	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Fluoranthene	µg/L	n/v	<0.2	<0.2	<0.2	0.3	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Fluorene	µg/L	n/v	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Indeno(1,2,3-cd)pyrene	µg/L	n/v	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Methylnaphthalene (Total)	µg/L	n/v	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28
Methylnaphthalene, 1-	µg/L	n/v	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Methylnaphthalene, 2-	µg/L	n/v	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Naphthalene	µg/L	n/v	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Pentachlorophenol	µg/L	60[B] 30_f[D]	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	µg/L	n/v	<0.1	<0.1	<0.1	0.3	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Phenol	µg/L	n/v	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Pyrene	µg/L	n/v	<0.05	<0.05	<0.05	0.24	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Trichlorobenzene, 1,2,4-	µg/L	n/v	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Trichlorophenol, 2,4,5-	µg/L	n/v	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Trichlorophenol, 2,4,6-	µg/L	5[B] 2_f[D]	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Volatile Organic Compounds												
Acetone	µg/L	n/v	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Bromodichloromethane	µg/L	n/v	<0.50	<0.50	<0.50	<0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Bromoform (Tribromomethane)	µg/L	n/v	<1.0	<1.0	<1.0	<1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromomethane (Methyl bromide)	µg/L	n/v	<0.50	<0.50	<0.50	<0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Carbon Tetrachloride (Tetrachloromethane)	µg/L	2[B]	<0.20	<0.20	<0.20	<0.2	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Chlorobenzene (Monochlorobenzene)	µg/L	80[B] 30_f[D]	<0.20	<0.20	<0.20	<0.2	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Chloroform (Trichloromethane)	µg/L	n/v	<0.20	<0.20	<0.20	<0.2	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Dibromochloromethane	µg/L	n/v	<0.50	<0.50	<0.50	<0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Dichlorobenzene, 1,2-	µg/L	200[B] 3_f[D]	<0.50	<0.50	<0.50	<0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Dichlorobenzene, 1,3-	µg/L	n/v	<0.50	<0.50	<0.50	<0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Dichlorobenzene, 1,4-	µg/L	5[B] 1_f[D]	<0.50	<0.50	<0.50	<0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Dichlorodifluoromethane (Freon 12)	µg/L	n/v	<1.0	<1.0	<1.0	<1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Dichloroethane, 1,1-	µg/L	n/v	<0.20	<0.20	<0.20	<0.2	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Dichloroethane, 1,2-	µg/L	5[C]	<0.50	<0.50	<0.50	<0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Dichloroethene, 1,1-	µg/L	14[B]	<0.20	<0.20	<0.20	<0.2	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Dichloroethene, cis-1,2-	µg/L	n/v	<0.50	<0.50	<0.50	<0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Dichloroethene, trans-1,2-	µg/L	n/v	<0.50	<0.50	<0.50	<0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Dichloropropane, 1,2-	µg/L	n/v	<0.20	<0.20	<0.20	<0.2	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Dichloropropene, 1,3- (sum of isomers cis + trans)	µg/L	n/v	<0.50	<0.50	<0.50	<0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Dichloropropene, cis-1,3-	µg/L	n/v	<0.30	<0.30	<0.30	<0.3	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
Dichloropropene, trans-1,3-	µg/L	n/v	<0.40	<0.40	<0.40	<0.4	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40
Ethylene Dibromide (Dibromoethane, 1,2-)	µg/L	n/v	<0.20	<0.20	<0.20	<0.2	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Hexane (n-Hexane)	µg/L	n/v	<1.0	<1.0	<1.0	<1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Methyl Ethyl Ketone (MEK) (2-Butanone)	µg/L	n/v	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Methyl Isobutyl Ketone (MIBK)	µg/L	n/v	<5.0	<5.0	<5.0	<5	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Methyl tert-butyl ether (MTBE)	µg/L	15[D]	<0.50	<0.50	<0.50	<0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Methylene Chloride (Dichloromethane)	µg/L	50[B]	<2.0	<2.0	<2.0	<2	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Styrene	µg/L	n/v	<0.50	<0.50	<0.50	<0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Tetrachloroethane, 1,1,1,2-	µg/L	n/v	<0.50	<0.50	<0.50	<0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Tetrachloroethane, 1,1,2,2-	µg/L	n/v	<0.50	<0.50	<0.50	<0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Tetrachloroethene (PCE)	µg/L	10[B]	<0.20	<0.20	<0.20	<0.2	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Trichloroethane, 1,1,1-	µg/L	n/v	<0.20	<0.20	<0.20	<0.2	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Trichloroethane, 1,1,2-	µg/L	n/v	<0.50	<0.50	<0.50	<0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Trichloroethene (TCE)	µg/L	5[B]	<0.20	<0.20	<0.20	<0.2	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Trichlorofluoromethane (Freon 11)	µg/L	n/v	<0.50	<0.50	<0.50	<0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Trihalomethanes	µg/L	100[B] $_e$	<0.20	<0.20	<0.20	<1	<0.20	<0.20	<1.0	<0.20	<1.0	<0.20
Vinyl Chloride	µg/L	1[B]	<0.20	<0.20	<0.20	<0.2	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20

See notes on last page

Table 8
Summary of Groundwater Analytical Results - Private Wells
Clarington Tranformer Station
Hydro One Networks Inc.

Aquifer Unit			Thorncliffe Formation									
Sample Date			7-Oct-14	21-Apr-15	7-Oct-15	12-Apr-16	1-Nov-16	24-Apr-17	16-Oct-17	20-Aug-14	8-Oct-14	8-Apr-15
Sample ID			WG-160900764-20141007-AD08	WG-160900764-20150421-JK17	WG-160900764-20151007-JK17	WG-160900764-20160412-JK15	WG-160900764-20161101-JK10	WG-160900764-20170424-JK7	WG-160900764-20171016-JK4	WG-160900764-20140820-HB01	WG-160900764-20141008-AD17	WG-160900764-20150408-AD01
Water Type			Raw	Raw	Raw	Raw	Raw	Raw	Raw	Raw	Raw	Raw
Sample Tap			Outside (Back house)	Outside (Back house)	Outside (Back house)	Outside (Back house)	Outside (Back house)	Outside (Back house)	Outside (Back house)	Outside (Back house)	Outside (Back house)	Outside (Back house)
Treatment Type			None	None	None	None	None	None	None	None	None	None
Sampling Company			STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC
Laboratory			MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX
Laboratory Work Order			B4I7101	B571211	B5K5099	B673025	B6N7539	B781996	B7M9357	B4F1595	B4I8196	B561586
Laboratory Sample ID			XX2935	ADJ099	BCZ440	CEK241	DJI436	EGP449	FIP274	XF4725	XX8288	ABP508
Filtered	Units	ODWS	Total Metals	Total Metals	Total Metals	Total Metals	Total Metals	Total Metals	Total Metals	Lab Filtered Metals	Total Metals	Total Metals
General Chemistry												
Acidity	mg/L	n/v	<10	14	15	14	16	18	7.8	<10	<10	17
Alkalinity, Bicarbonate (as CaCO3)	mg/L	n/v	210	210	210	220	210	210	220	190	200	200
Alkalinity, Carbonate (as CaCO3)	mg/L	n/v	2.2	1.8	1.2	1.4	1.5	2.2	2.3	2.3	1.8	1.7
Alkalinity, Total (as CaCO3)	mg/L	30-500[E]	210	210	210	220	210	220	220	200	210	200
Ammonia (as N)	mg/L	n/v	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	0.18	0.13	0.12
Anion Sum	me/L	n/v	5.80	5.70	5.74	5.88	5.81	5.78	5.93	4.28	4.46	4.31
Cation Sum	me/L	n/v	5.75	5.70	6.00	6.12	5.84	5.86	6.05	4.17	4.46	4.26
Chloride	mg/L	250[D]	12	13	13	14	14	14	14	2	2	2
Cyanide (Free)	µg/L	200[B]	<2	<2	<2	<2	<1	<1	<1	<2	<2	<2
Dissolved Organic Carbon (DOC)	mg/L	5[D]	0.79	1.1	0.74	0.71	0.77	0.80	0.78	0.90	1.4	1.1
Electrical Conductivity, Lab	µmhos/cm	n/v	540	530	540	570	550	560	520	400	410	400
Fluoride	mg/L	1.5_b[B]	<0.10	<0.10	<0.10	<0.10	0.11	<0.10	<0.10	0.13	0.11	0.16
Hardness (as CaCO3)	mg/L	80-100[E]	**270[E]**	**270[E]**	**290[E]**	**290[E]**	**280[E]**	**280[E]**	**290[E]**	**200[E]**	**210[E]**	**200[E]**
Ion Balance	%	n/v	0.460	0.0500	2.25	1.95	0.220	0.710	1.00	1.33	0.0100	0.530
Langelier Index (at 20 C)	none	n/v	0.822	0.728	0.598	0.664	0.648	0.828	0.862	0.737	0.653	0.586
Langelier Index (at 4 C)	none	n/v	0.573	0.479	0.349	0.415	0.400	0.579	0.613	0.487	0.403	0.337
Nitrate (as N)	mg/L	10.0_d[B]	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Nitrate + Nitrite (as N)	mg/L	10.0_d[B]	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	0.065
Nitrite (as N)	mg/L	1.0_d[B]	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	0.065
Orthophosphate(as P)	mg/L	n/v	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
pH	S.U.	6.5-8.5[E]	8.03	7.95	7.78	7.85	7.89	8.04	8.04	8.11	7.98	7.95
Saturation pH (at 20 C)	none	n/v	7.21	7.22	7.19	7.19	7.24	7.22	7.18	7.37	7.32	7.37
Saturation pH (at 4 C)	none	n/v	7.46	7.47	7.44	7.43	7.49	7.47	7.43	7.62	7.57	7.62
Sulfate	mg/L	500_n[D]	58	53	54	54	57	51	53	13	13	13
Total Dissolved Solids	mg/L	500[D]	312	304	290	334	402	340	285	234	222	256
Total Organic Carbon	mg/L	n/v	0.86	0.67	0.71	0.74	0.71	0.63	0.84	1.4	1.3	1.1
Total Suspended Solids	mg/L	n/v	16	<10	<10	<10	11	<10	<10	<10	<10	<10
Turbidity, Lab	NTU	$5_{[}$[D, E]	**18[D]**	**19[D]**	**20[D]**	**18[D]**	**25[D]**	**17[D]**	**17[D]**	4.9	**20[D]**	**17[D]**
Metals												
Aluminum	µg/L	100[E]	<5.0	<5.0	<5.0	<5.0	<5	8.1	<5	<5.0	<5.0	<5
Antimony	µg/L	6[C]	0.55	<0.50	<0.5	<0.50	<0.5	<0.50	<0.5	<0.50	<0.50	<0.5
Arsenic	µg/L	25[C]	<1.0	<1.0	<1	<1.0	<1	<1.0	<1	<1.0	<1.0	<1
Barium	µg/L	1,000[B]	45	41	45	44	43	42	41	150	180	170
Beryllium	µg/L	n/v	<0.50	<0.50	<0.5	<0.50	<0.5	<0.50	<0.5	<0.50	<0.50	<0.5
Boron	µg/L	5,000[C]	<10	<10	<10	<10	<10	<10	<10	19	13	18
Cadmium	µg/L	5[B]	<0.10	<0.10	<0.1	<0.10	<0.1	<0.10	<0.1	<0.10	<0.10	<0.1
Calcium	µg/L	n/v	76,000	75,000	80,000	80,000	76,000	76,000	78,000	54,000	57,000	55,000
Chromium	µg/L	50[B]	<5.0	<5.0	<5.0	<5.0	<5	<5.0	<5	<5.0	<5.0	<5
Chromium (Hexavalent)	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Cobalt	µg/L	n/v	<0.50	<0.50	<0.5	<0.50	<0.5	<0.50	<0.5	<0.50	<0.50	<0.5
Copper	µg/L	1,000[D]	<1.0	1.5	<1	<1.0	2.3	1.8	<1	2.1	4.0	2
Iron	µg/L	300[D]	**1,800[D]**	**1,500[D]**	**1,600[D]**	**1,800[D]**	**2,100[D]**	**3,400[D]**	**2,500[D]**	<100	**2,700[D]**	**2,200[D]**
Lead	µg/L	10_c[B]	<0.50	<0.50	<0.5	<0.50	<0.5	0.80	<0.5	<0.50	<0.50	<0.5
Magnesium	µg/L	n/v	21,000	21,000	21,000	22,000	21,000	21,000	22,000	15,000	15,000	14,000
Manganese	µg/L	50[D]	27	22	26	26	30	31	**52[D]**	15	25	24
Mercury	µg/L	1[B]	<0.10	<0.1	<0.1	<0.10	<0.1	<0.1	<0.1	<0.10	<0.10	<0.1
Molybdenum	µg/L	n/v	2.9	3.2	3	3.3	2.4	2.1	3.3	0.63	<0.50	0.63
Nickel	µg/L	n/v	<1.0	<1.0	<1	<1.0	<1	<1.0	<1	<1.0	<1.0	<1
Phosphorus	µg/L	n/v	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
Potassium	µg/L	n/v	1,000	1,000	1,100	1,100	1,200	1,100	1,200	890	990	940
Selenium	µg/L	50[B]	<2.0	<2.0	<2	<2.0	<2	<2.0	<2	<2.0	<2.0	<2
Silicon	µg/L	n/v	5,700	5,500	5,600	5,700	5,300	5,400	5,100	11,000	12,000	10,000
Silver	µg/L	n/v	<0.10	<0.10	<0.1	<0.10	<0.1	<0.10	<0.1	<0.10	<0.10	<0.1
Sodium	µg/L	200,000[D] 20,000[F]	4,000	4,300	4,400	4,500	4,500	4,400	4,700	5,200	5,000	5,200
Strontium	µg/L	n/v	270	270	270	280	260	250	280	220	230	220
Thallium	µg/L	n/v	<0.050	<0.050	<0.05	<0.05	<0.05	<0.050	<0.05	<0.050	<0.050	<0.05
Titanium	µg/L	n/v	<5.0	<5.0	<5.0	<5.0	<5	<5.0	<5	<5.0	<5.0	<5
Uranium	µg/L	20[B]	0.75	0.74	0.76	0.87	0.73	0.79	0.69	<0.10	<0.10	<0.1
Vanadium	µg/L	n/v	<0.50	<0.50	<0.5	<0.50	<0.5	<0.50	<0.5	<0.50	<0.50	<0.5
Zinc	µg/L	5,000[D]	<5.0	<5.0	<5.0	<5.0	6.4	20	<5	<5.0	9.8	6.4
Zirconium	µg/L	n/v	<1.0	<1.0	<1	<1.0	<1	<1.0	<1	<1.0	<1.0	<1
Microbiological Analysis												
Escherichia coli (E.Coli)	cfu/100mL	0[A]	0	0	0	0	0	0	0	0 BO	0 BO	0
Total Coliform Background	cfu/100mL	n/v	36	8	15	0	0	0	9	>2000	>2000	1,800
Total Coliforms	cfu/100mL	0[A]	**22[A]**	0	0	0	0	0	0	**24 BO[A]**	0 BO	0
BTEX and Petroleum Hydrocarbons												
Benzene	µg/L	1[B]	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Toluene	µg/L	60[B] 24[D]	<0.20	<0.20	<0.20	<0.20	0.25	<0.20	<0.20	<0.20	<0.20	<0.20
Ethylbenzene	µg/L	140[B] 1.6[D]	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Xylene, m & p-	µg/L	300_{s1}[D]	<0.20	<0.20	<0.40	<0.40	<0.40	<0.20	<0.20	<0.20	<0.20	<0.20
Xylene, o-	µg/L	300_{s1}[D]	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Xylenes, Total	µg/L	90[B] 20[D]	<0.20	<0.20	<0.40	<0.40	<0.40	<0.20	<0.20	<0.20	<0.20	<0.20
PHC F1 (C6-C10 range)	µg/L	n/v	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
PHC F1 (C6-C10 range) minus BTEX	µg/L	n/v	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
PHC F2 (>C10-C16 range)	µg/L	n/v	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
PHC F3 (>C16-C34 range)	µg/L	n/v	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200
PHC F4 (>C34-C50 range)	µg/L	n/v	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200
Chromatogram to baseline at C50	none	n/v	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
Polychlorinated Biphenyls												
Aroclor 1242	µg/L	n/v	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Aroclor 1248	µg/L	n/v	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Aroclor 1254	µg/L	n/v	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Aroclor 1260	µg/L	n/v	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Polychlorinated Biphenyls (PCBs)	µg/L	3[C]	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05

See notes on last page

Table 8
Summary of Groundwater Analytical Results - Private Wells
Clarington Tranformer Station
Hydro One Networks Inc.

Aquifer Unit			Thorncliffe Formation									
Sample Date			7-Oct-14	21-Apr-15	7-Oct-15	12-Apr-16	1-Nov-16	24-Apr-17	16-Oct-17	20-Aug-14	8-Oct-14	8-Apr-15
Sample ID			WG-160900764-20141007-AD08	WG-160900764-20150421-JK17	WG-160900764-20151007-JK17	WG-160900764-20160412-JK15	WG-160900764-20161101-JK10	WG-160900764-20170424-JK7	WG-160900764-20171016-JK4	WG-160900764-20140820-HB01	WG-160900764-20141008-AD17	WG-160900764-20150408-AD01
Water Type			Raw	Raw	Raw	Raw	Raw	Raw	Raw	Raw	Raw	Raw
Sample Tap			Outside (Back house)	Outside (Back house)	Outside (Back house)	Outside (Back house)	Outside (Back house)	Outside (Back house)	Outside (Back house)	Outside (Back house)	Outside (Back house)	Outside (Back house)
Treatment Type			None	None	None	None	None	None	None	None	None	None
Sampling Company			STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC
Laboratory			MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX
Laboratory Work Order			B4I7101	B571211	B5K5099	B673025	B6N7539	B781996	B7M9357	B4F1595	B4I8196	B561586
Laboratory Sample ID			XX2935	ADJ099	BCZ440	CEK241	DJI436	EGP449	FIP274	XF4725	XX8288	ABP508
Filtered	Units	ODWS	Total Metals	Total Metals	Total Metals	Total Metals	Total Metals	Total Metals	Total Metals	Lab Filtered Metals	Total Metals	Total Metals
Semi-Volatile Organic Compounds												
Acenaphthene	µg/L	n/v	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Acenaphthylene	µg/L	n/v	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Anthracene	µg/L	n/v	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(a)anthracene	µg/L	n/v	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(a)pyrene	µg/L	0.01[B]	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Benzo(b/j)fluoranthene	µg/L	n/v	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(g,h,i)perylene	µg/L	n/v	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(k)fluoranthene	µg/L	n/v	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Biphenyl, 1,1'- (Biphenyl)	µg/L	n/v	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Bis(2-Chloroethyl)ether	µg/L	n/v	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Bis(2-Chloroisopropyl)ether	µg/L	n/v	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Bis(2-Ethylhexyl)phthalate (DEHP)	µg/L	n/v	2	<1	<1	<1	<1	3	<1	<1	<1	<1
Chloroaniline, 4-	µg/L	n/v	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chlorophenol, 2- (ortho-Chlorophenol)	µg/L	n/v	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Chrysene	µg/L	n/v	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Dibenzo(a,h)anthracene	µg/L	n/v	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dichlorobenzidine, 3,3'-	µg/L	n/v	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Dichlorophenol, 2,4-	µg/L	900[B] 0.3$_f$[D]	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Diethyl Phthalate	µg/L	n/v	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dimethyl Phthalate	µg/L	n/v	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dimethylphenol, 2,4-	µg/L	n/v	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Dinitrophenol, 2,4-	µg/L	n/v	<2	<5	<2	<2	<2	<2	<2	<2	<2	<2
Dinitrotoluene, 2,4-	µg/L	n/v	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Dinitrotoluene, 2,6-	µg/L	n/v	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Fluoranthene	µg/L	n/v	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Fluorene	µg/L	n/v	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Indeno(1,2,3-cd)pyrene	µg/L	n/v	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Methylnaphthalene (Total)	µg/L	n/v	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28
Methylnaphthalene, 1-	µg/L	n/v	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Methylnaphthalene, 2-	µg/L	n/v	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Naphthalene	µg/L	n/v	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Pentachlorophenol	µg/L	60[B] 30$_f$[D]	<0.1	<0.5	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	µg/L	n/v	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Phenol	µg/L	n/v	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Pyrene	µg/L	n/v	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Trichlorobenzene, 1,2,4-	µg/L	n/v	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Trichlorophenol, 2,4,5-	µg/L	n/v	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Trichlorophenol, 2,4,6-	µg/L	5[B] 2$_f$[D]	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Volatile Organic Compounds												
Acetone	µg/L	n/v	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Bromodichloromethane	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Bromoform (Tribromomethane)	µg/L	n/v	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromomethane (Methyl bromide)	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Carbon Tetrachloride (Tetrachloromethane)	µg/L	2[B]	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Chlorobenzene (Monochlorobenzene)	µg/L	80[B] 30$_f$[D]	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Chloroform (Trichloromethane)	µg/L	n/v	<0.20	<0.20	<0.20	<0.20	0.24	<0.20	<0.20	<0.20	2.5	<0.20
Dibromochloromethane	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Dichlorobenzene, 1,2-	µg/L	200[B] 3$_f$[D]	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Dichlorobenzene, 1,3-	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Dichlorobenzene, 1,4-	µg/L	5[B] 1$_f$[D]	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Dichlorodifluoromethane (Freon 12)	µg/L	n/v	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Dichloroethane, 1,1-	µg/L	n/v	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Dichloroethane, 1,2-	µg/L	5[C]	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Dichloroethene, 1,1-	µg/L	14[B]	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Dichloroethene, cis-1,2-	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Dichloroethene, trans-1,2-	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Dichloropropane, 1,2-	µg/L	n/v	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Dichloropropene, 1,3- (sum of isomers cis + trans)	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Dichloropropene, cis-1,3-	µg/L	n/v	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
Dichloropropene, trans-1,3-	µg/L	n/v	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40
Ethylene Dibromide (Dibromoethane, 1,2-)	µg/L	n/v	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Hexane (n-Hexane)	µg/L	n/v	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Methyl Ethyl Ketone (MEK) (2-Butanone)	µg/L	n/v	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Methyl Isobutyl Ketone (MIBK)	µg/L	n/v	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Methyl tert-butyl ether (MTBE)	µg/L	15[D]	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Methylene Chloride (Dichloromethane)	µg/L	50[B]	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Styrene	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Tetrachloroethane, 1,1,1,2-	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Tetrachloroethane, 1,1,2,2-	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Tetrachloroethene (PCE)	µg/L	10[B]	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Trichloroethane, 1,1,1-	µg/L	n/v	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Trichloroethane, 1,1,2-	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Trichloroethene (TCE)	µg/L	5[B]	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Trichlorofluoromethane (Freon 11)	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Trihalomethanes	µg/L	100$_e$[B]	<0.20	<1.0	<0.20	<0.20	0.24	<0.20	<1.0	<0.20	2.5	<1
Vinyl Chloride	µg/L	1[B]	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20

See notes on last page

Table 8
Summary of Groundwater Analytical Results - Private Wells
Clarington Tranformer Station
Hydro One Networks Inc.

Aquifer Unit			Thorncliffe Formation									
Sample Date			6-Oct-15	13-Apr-16	2-Nov-16	25-Apr-17	17-Oct-17	20-Aug-14	7-Oct-14	16-Apr-15	6-Oct-15	12-Apr-16
Sample ID			WG-160900764-2015106-JK16	WG-160900764-20160413-JK16	WG-160900764-20161102-JK13	WG-160900764-20170425-JK18	WG-160900764-20171017-JK18	WG-160900764-20140820-HB04	WG-160900764-20141007-AD12	WG-160900764-20150416-JK10	WG-160900764-2015106-JK10	WG-160900764-20160412-JK7
Water Type			Raw	Raw	Raw	Raw	Raw	Raw	Raw	Raw	Raw	Raw
Sample Tap			Outside (Back house)	Outside (Back house)	Outside (Back house)	Outside (Back house)	Outside (Back house)	Inside (Basement)	Inside (Basement)	Inside (Basement)	Inside (Basement)	Inside (Basement)
Treatment Type			None	None	None	None	None	None	None	None	None	None
Sampling Company			STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC
Laboratory			MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX
Laboratory Work Order			B5K3284	B674120	B6N8820	B783174	B7N0778	B4F1595	B4I7101	B567840	B5K3284	B673025
Laboratory Sample ID			BCP444	CEO959	DJO303	EGU904	FIX858	XF4727	XX2939	ACT455	BCP438	CEK230
Filtered	Units	ODWS	Total Metals	Total Metals	Total Metals	Total Metals	Total Metals	Lab Filtered Metals	Total Metals	Total Metals	Total Metals	Total Metals
General Chemistry												
Acidity	mg/L	n/v	13	10	13	15	5.8	10	<10	11	<10	<10
Alkalinity, Bicarbonate (as CaCO3)	mg/L	n/v	210	200	200	200	210	190	200	210	190	200
Alkalinity, Carbonate (as CaCO3)	mg/L	n/v	1.4	1.9	2.1	2.0	2.2	2.8	2.4	<1	1.2	1.4
Alkalinity, Total (as CaCO3)	mg/L	30-500[E]	210	210	200	200	210	200	200	210	200	200
Ammonia (as N)	mg/L	n/v	0.20	0.10	0.12	0.13	0.082	0.23	0.099	0.36	0.33	1.2
Anion Sum	me/L	n/v	4.54	4.44	4.45	4.42	4.52	4.37	4.40	4.68	4.34	4.47
Cation Sum	me/L	n/v	4.68	4.41	4.38	4.34	4.26	4.38	4.43	4.50	4.67	4.36
Chloride	mg/L	250[D]	2.2	1.7	2.2	1.8	2.2	2	2	2	2.3	2.4
Cyanide (Free)	µg/L	200[B]	<2	<2	<1	<1	<1	<2	<2	<2	<2	<2
Dissolved Organic Carbon (DOC)	mg/L	5[D]	1.2	1.2	1.2	1.2	1.2	1.0	1.4	1.4	1.4	1.4
Electrical Conductivity, Lab	µmhos/cm	n/v	410	390	410	410	370	410	410	400	400	400
Fluoride	mg/L	1.5_b[B]	0.11	0.13	0.13	0.13	0.12	<0.10	<0.10	0.11	<0.10	0.12
Hardness (as CaCO3)	mg/L	80-100[E]	**220[E]**	**210[E]**	**200[E]**	**200[E]**	**200[E]**	**210[E]**	**210[E]**	**210[E]**	**220[E]**	**200[E]**
Ion Balance	%	n/v	1.53	0.260	0.780	1.02	2.88	0.140	0.330	1.93	3.66	1.14
Langelier Index (at 20 C)	none	n/v	0.557	0.672	0.707	0.667	0.717	0.853	0.755	0.0770	0.479	0.532
Langelier Index (at 4 C)	none	n/v	0.308	0.423	0.458	0.418	0.469	0.603	0.506	-0.173	0.230	0.283
Nitrate (as N)	mg/L	10.0_d[B]	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.1	<0.10	<0.10
Nitrate + Nitrite (as N)	mg/L	10.0_d[B]	<0.10	<0.10	<0.10	<0.10	0.024	<0.10	<0.10	<0.1	<0.10	<0.10
Nitrite (as N)	mg/L	1.0_d[B]	<0.010	<0.010	<0.010	<0.010	0.024	<0.010	<0.010	<0.01	<0.010	<0.010
Orthophosphate(as P)	mg/L	n/v	0.012	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.01	<0.010	<0.010
pH	S.U.	6.5-8.5[E]	7.86	7.99	8.05	8.01	8.05	8.19	8.10	7.38	7.81	7.87
Saturation pH (at 20 C)	none	n/v	7.30	7.32	7.34	7.35	7.33	7.34	7.35	7.30	7.33	7.34
Saturation pH (at 4 C)	none	n/v	7.55	7.57	7.59	7.59	7.58	7.59	7.60	7.55	7.58	7.59
Sulfate	mg/L	500_n[D]	14	13	13	14	13	18	17	15	18	15
Total Dissolved Solids	mg/L	500[D]	230	236	244	228	220	216	246	216	228	240
Total Organic Carbon	mg/L	n/v	1.2	1.2	1.5	1.1	1.2	1.5	1.5	1.4	1.3	1.4
Total Suspended Solids	mg/L	n/v	<10	<10	<10	<10	<10	33	<10	<10	<10	<10
Turbidity, Lab	NTU	$5_{[}$[D, E]	**9.7[D]**	**8.0[D]**	**5.2[D]**	**6.4[D]**	2.5	**84[D]**	**11[D]**	**7.6[D]**	**7.0[D]**	**5.9[D]**
Metals												
Aluminum	µg/L	100[E]	<5.0	<5.0	<5	<5.0	<5	<5.0	6.3	<5	<5.0	<5.0
Antimony	µg/L	6[C]	<0.5	<0.50	<0.5	<0.50	<0.5	<0.50	<0.50	<0.5	<0.5	<0.50
Arsenic	µg/L	25[C]	<1	<1.0	<1	<1.0	<1	<1.0	<1.0	<1	<1	<1.0
Barium	µg/L	1,000[B]	170	170	170	170	170	100	140	150	140	150
Beryllium	µg/L	n/v	<0.5	<0.50	<0.5	<0.50	<0.5	<0.50	<0.50	<0.5	<0.5	<0.50
Boron	µg/L	5,000[C]	<10	15	13	14	14	13	12	15	<10	12
Cadmium	µg/L	5[B]	<0.1	<0.10	<0.1	<0.10	<0.1	<0.10	<0.10	<0.1	<0.1	<0.10
Calcium	µg/L	n/v	60,000	59,000	56,000	55,000	55,000	57,000	57,000	57,000	60,000	57,000
Chromium	µg/L	50[B]	<5.0	<5.0	<5	<5.0	<5	<5.0	<5.0	<5	<5.0	<5.0
Chromium (Hexavalent)	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.5	<0.50	<0.50
Cobalt	µg/L	n/v	<0.5	<0.50	<0.5	<0.50	<0.5	<0.50	<0.50	<0.5	<0.5	<0.50
Copper	µg/L	1,000[D]	4.8	5	1.1	1.5	1.9	<1.0	<1.0	<1	<1	2.3
Iron	µg/L	300[D]	**1,600[D]**	**1,600[D]**	**1,100[D]**	**1,600[D]**	**1,300[D]**	<100	**2,100[D]**	**1,900[D]**	**1,700[D]**	**1,500[D]**
Lead	µg/L	10_c[B]	<0.5	<0.50	<0.5	<0.50	<0.5	<0.50	<0.50	<0.5	<0.5	<0.50
Magnesium	µg/L	n/v	17,000	15,000	16,000	15,000	15,000	16,000	16,000	16,000	17,000	14,000
Manganese	µg/L	50[D]	21	20	20	24	23	24	37	50	30	40
Mercury	µg/L	1[B]	<0.1	<0.10	<0.1	<0.1	<0.1	<0.10	<0.10	<0.1	<0.1	<0.10
Molybdenum	µg/L	n/v	0.57	0.6	0.56	0.59	0.63	0.98	0.63	0.84	0.8	0.77
Nickel	µg/L	n/v	<1	<1.0	<1	<1.0	<1	<1.0	<1.0	<1	<1	<1.0
Phosphorus	µg/L	n/v	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
Potassium	µg/L	n/v	1,100	910	1,000	1,000	1,000	870	890	950	970	880
Selenium	µg/L	50[B]	<2	<2.0	<2	<2.0	<2	<2.0	<2.0	<2	<2	<2.0
Silicon	µg/L	n/v	12,000	11,000	11,000	11,000	11,000	9,100	9,900	9,300	10,000	9,100
Silver	µg/L	n/v	<0.1	<0.10	<0.1	<0.10	<0.1	<0.10	<0.10	<0.1	<0.1	<0.10
Sodium	µg/L	$200,000_g$[D] $20,000_g$[F]	5,100	4,700	4,900	5,000	4,700	4,500	4,300	4,600	4,600	4,400
Strontium	µg/L	n/v	230	240	220	230	230	220	240	230	230	240
Thallium	µg/L	n/v	<0.05	<0.05	<0.05	<0.050	<0.05	<0.050	<0.050	<0.05	<0.05	<0.05
Titanium	µg/L	n/v	<5.0	<5.0	<5	<5.0	<5	<5.0	<5.0	<5	<5.0	<5.0
Uranium	µg/L	20[B]	<0.1	<0.10	<0.1	<0.10	<0.1	<0.10	<0.10	<0.1	<0.1	<0.10
Vanadium	µg/L	n/v	<0.5	<0.50	<0.5	<0.50	<0.5	<0.50	<0.50	<0.5	<0.5	<0.50
Zinc	µg/L	5,000[D]	12	6.3	9.5	7.6	9.8	<5.0	67	<5	<5.0	17
Zirconium	µg/L	n/v	<1	<1.0	<1	<1.0	<1	<1.0	<1.0	<1	<1	<1.0
Microbiological Analysis												
Escherichia coli (E.Coli)	cfu/100mL	0[A]	**NDOGN[A]**	0	0	0	0	0	0	0	0	0
Total Coliform Background	cfu/100mL	n/v	**NDOGN[A]**	230	1,500	0	56	46	46	0	29	3
Total Coliforms	cfu/100mL	0[A]	**NDOGN[A]**	0	0	0	0	0	0	0	0	0
BTEX and Petroleum Hydrocarbons												
Benzene	µg/L	1[B]	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.2	<0.20	<0.20
Toluene	µg/L	60[B] 24[D]	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	3.0	<0.20	<0.20
Ethylbenzene	µg/L	140[B] 1.6[D]	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.2	<0.20	<0.20
Xylene, m & p-	µg/L	300_{s1}[D]	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.2	0.31	<0.40
Xylene, o-	µg/L	300_{s1}[D]	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.2	<0.20	<0.20
Xylenes, Total	µg/L	90[B] 20[D]	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.2	0.31	<0.40
PHC F1 (C6-C10 range)	µg/L	n/v	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
PHC F1 (C6-C10 range) minus BTEX	µg/L	n/v	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
PHC F2 (>C10-C16 range)	µg/L	n/v	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
PHC F3 (>C16-C34 range)	µg/L	n/v	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200
PHC F4 (>C34-C50 range)	µg/L	n/v	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200
Chromatogram to baseline at C50	none	n/v	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
Polychlorinated Biphenyls												
Aroclor 1242	µg/L	n/v	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Aroclor 1248	µg/L	n/v	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Aroclor 1254	µg/L	n/v	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Aroclor 1260	µg/L	n/v	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Polychlorinated Biphenyls (PCBs)	µg/L	3[C]	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05

See notes on last page

Table 8
Summary of Groundwater Analytical Results - Private Wells
Clarington Tranformer Station
Hydro One Networks Inc.

Aquifer Unit			Thorncliffe Formation									
Sample Date			6-Oct-15	13-Apr-16	2-Nov-16	25-Apr-17	17-Oct-17	20-Aug-14	7-Oct-14	16-Apr-15	6-Oct-15	12-Apr-16
Sample ID			WG-160900764-2015106-JK16	WG-160900764-20160413-JK16	WG-160900764-20161102-JK13	WG-160900764-20170425-JK18	WG-160900764-20171017-JK18	WG-160900764-20140820-HB04	WG-160900764-20141007-AD12	WG-160900764-20150416-JK10	WG-160900764-2015106-JK10	WG-160900764-20160412-JK7
Water Type			Raw	Raw	Raw	Raw	Raw	Raw	Raw	Raw	Raw	Raw
Sample Tap			Outside (Back house)	Outside (Back house)	Outside (Back house)	Outside (Back house)	Outside (Back house)	Inside (Basement)	Inside (Basement)	Inside (Basement)	Inside (Basement)	Inside (Basement)
Treatment Type			None	None	None	None	None	None	None	None	None	None
Sampling Company			STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC
Laboratory			MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX
Laboratory Work Order			B5K3284	B674120	B6N8820	B783174	B7N0778	B4F1595	B4I7101	B567840	B5K3284	B673025
Laboratory Sample ID			BCP444	CEO959	DJO303	EGU904	FIX858	XF4727	XX2939	ACT455	BCP438	CEK230
Filtered	Units	ODWS	Total Metals	Total Metals	Total Metals	Total Metals	Total Metals	Lab Filtered Metals	Total Metals	Total Metals	Total Metals	Total Metals
Semi-Volatile Organic Compounds												
Acenaphthene	µg/L	n/v	<0.2	<0.2	<0.2	<0.2	<1	<0.2	<0.2	<0.2	<0.2	<0.2
Acenaphthylene	µg/L	n/v	<0.2	<0.2	<0.2	<0.2	<1	<0.2	<0.2	<0.2	<0.2	<0.2
Anthracene	µg/L	n/v	<0.05	<0.05	<0.05	<0.05	<0.3	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(a)anthracene	µg/L	n/v	<0.05	<0.05	<0.05	<0.05	<0.3	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(a)pyrene	µg/L	0.01[B]	<0.01	<0.01	<0.01	<0.01	***<0.05***	<0.01	<0.01	<0.01	<0.01	<0.01
Benzo(b/j)fluoranthene	µg/L	n/v	<0.05	<0.05	<0.05	<0.05	<0.3	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(g,h,i)perylene	µg/L	n/v	<0.05	<0.05	<0.05	<0.05	<0.3	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(k)fluoranthene	µg/L	n/v	<0.05	<0.05	<0.05	<0.05	<0.3	<0.05	<0.05	<0.05	<0.05	<0.05
Biphenyl, 1,1'- (Biphenyl)	µg/L	n/v	<0.1	<0.1	<0.1	<0.1	<0.5	<0.1	<0.1	<0.1	<0.1	<0.1
Bis(2-Chloroethyl)ether	µg/L	n/v	<0.5	<0.5	<0.5	<0.5	<3	<0.5	<0.5	<0.5	<0.5	<0.5
Bis(2-Chloroisopropyl)ether	µg/L	n/v	<0.5	<0.5	<0.5	<0.5	<3	<0.5	<0.5	<0.5	<0.5	<0.5
Bis(2-Ethylhexyl)phthalate (DEHP)	µg/L	n/v	<1	<1	<1	<1	<5	2	<1	<1	<1	<1
Chloroaniline, 4-	µg/L	n/v	<1	<1	<1	<1	<5	<1	<1	<1	<1	<1
Chlorophenol, 2- (ortho-Chlorophenol)	µg/L	n/v	<0.1	<0.1	<0.1	<0.1	<0.5	<0.1	<0.1	<0.1	<0.1	<0.1
Chrysene	µg/L	n/v	<0.05	<0.05	<0.05	<0.05	<0.3	<0.05	<0.05	<0.05	<0.05	<0.05
Dibenzo(a,h)anthracene	µg/L	n/v	<0.1	<0.1	<0.1	<0.1	<0.5	<0.1	<0.1	<0.1	<0.1	<0.1
Dichlorobenzidine, 3,3'-	µg/L	n/v	<0.5	<0.5	<0.5	<0.5	<3	<0.5	<0.5	<0.5	<0.5	<0.5
Dichlorophenol, 2,4-	µg/L	900[B] 0.3$_f$[D]	<0.1	<0.1	<0.1	<0.1	***<0.5***	<0.1	<0.1	<0.1	<0.1	<0.1
Diethyl Phthalate	µg/L	n/v	<0.1	<0.1	<0.1	0.1	<0.5	<0.1	<0.1	<0.1	<0.1	<0.1
Dimethyl Phthalate	µg/L	n/v	<0.1	<0.1	<0.1	<0.1	<0.5	<0.1	<0.1	<0.1	<0.1	<0.1
Dimethylphenol, 2,4-	µg/L	n/v	<0.5	<0.5	<0.5	<0.5	<3	<0.5	<0.5	<0.5	<0.5	<0.5
Dinitrophenol, 2,4-	µg/L	n/v	<2	<2	<2	<2	<10	<2	<2	<2	<2	<2
Dinitrotoluene, 2,4-	µg/L	n/v	<0.3	<0.3	<0.3	<0.3	<1	<0.3	<0.3	<0.3	<0.3	<0.3
Dinitrotoluene, 2,6-	µg/L	n/v	<0.3	<0.3	<0.3	<0.3	<1	<0.3	<0.3	<0.3	<0.3	<0.3
Fluoranthene	µg/L	n/v	<0.2	<0.2	<0.2	<0.2	<1	<0.2	<0.2	<0.2	<0.2	<0.2
Fluorene	µg/L	n/v	<0.2	<0.2	<0.2	<0.2	<1	<0.2	<0.2	<0.2	<0.2	<0.2
Indeno(1,2,3-cd)pyrene	µg/L	n/v	<0.1	<0.1	<0.1	<0.1	<0.5	<0.1	<0.1	<0.1	<0.1	<0.1
Methylnaphthalene (Total)	µg/L	n/v	<0.28	<0.28	<0.28	<0.28	<1.4	<0.28	<0.28	<0.28	<0.28	<0.28
Methylnaphthalene, 1-	µg/L	n/v	<0.2	<0.2	<0.2	<0.2	<1	<0.2	<0.2	<0.2	<0.2	<0.2
Methylnaphthalene, 2-	µg/L	n/v	<0.2	<0.2	<0.2	<0.2	<1	<0.2	<0.2	<0.2	<0.2	<0.2
Naphthalene	µg/L	n/v	<0.2	<0.2	<0.2	<0.2	<1	<0.2	<0.2	<0.2	<0.2	<0.2
Pentachlorophenol	µg/L	60[B] 30$_f$[D]	<0.1	<0.1	<0.1	<0.1	<0.5	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	µg/L	n/v	<0.1	<0.1	<0.1	<0.1	<0.5	<0.1	<0.1	<0.1	<0.1	<0.1
Phenol	µg/L	n/v	<0.5	<0.5	<0.5	<0.5	<3	<0.5	<0.5	<0.5	<0.5	<0.5
Pyrene	µg/L	n/v	<0.05	<0.05	<0.05	<0.05	<0.3	<0.05	<0.05	<0.05	<0.05	<0.05
Trichlorobenzene, 1,2,4-	µg/L	n/v	<0.1	<0.1	<0.1	<0.1	<0.5	<0.1	<0.1	<0.1	<0.1	<0.1
Trichlorophenol, 2,4,5-	µg/L	n/v	<0.2	<0.2	<0.2	<0.2	<1	<0.2	<0.2	<0.2	<0.2	<0.2
Trichlorophenol, 2,4,6-	µg/L	5[B] 2$_f$[D]	<0.2	<0.2	<0.2	<0.2	<1	<0.2	<0.2	<0.2	<0.2	<0.2
Volatile Organic Compounds												
Acetone	µg/L	n/v	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Bromodichloromethane	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.5	<0.50	<0.50
Bromoform (Tribromomethane)	µg/L	n/v	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1	<1.0	<1.0
Bromomethane (Methyl bromide)	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.5	<0.50	<0.50
Carbon Tetrachloride (Tetrachloromethane)	µg/L	2[B]	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.2	<0.20	<0.20
Chlorobenzene (Monochlorobenzene)	µg/L	80[B] 30$_f$[D]	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.2	<0.20	<0.20
Chloroform (Trichloromethane)	µg/L	n/v	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.2	<0.20	<0.20
Dibromochloromethane	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.5	<0.50	<0.50
Dichlorobenzene, 1,2-	µg/L	200[B] 3$_f$[D]	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.5	<0.50	<0.50
Dichlorobenzene, 1,3-	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.5	<0.50	<0.50
Dichlorobenzene, 1,4-	µg/L	5[B] 1$_f$[D]	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.5	<0.50	<0.50
Dichlorodifluoromethane (Freon 12)	µg/L	n/v	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1	<1.0	<1.0
Dichloroethane, 1,1-	µg/L	n/v	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.2	<0.20	<0.20
Dichloroethane, 1,2-	µg/L	5[C]	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.5	<0.50	<0.50
Dichloroethene, 1,1-	µg/L	14[B]	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.2	<0.20	<0.20
Dichloroethene, cis-1,2-	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.5	<0.50	<0.50
Dichloroethene, trans-1,2-	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.5	<0.50	<0.50
Dichloropropane, 1,2-	µg/L	n/v	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.2	<0.20	<0.20
Dichloropropene, 1,3- (sum of isomers cis + trans)	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.5	<0.50	<0.50
Dichloropropene, cis-1,3-	µg/L	n/v	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.3	<0.30	<0.30
Dichloropropene, trans-1,3-	µg/L	n/v	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.4	<0.40	<0.40
Ethylene Dibromide (Dibromoethane, 1,2-)	µg/L	n/v	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.2	<0.20	<0.20
Hexane (n-Hexane)	µg/L	n/v	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1	<1.0	<1.0
Methyl Ethyl Ketone (MEK) (2-Butanone)	µg/L	n/v	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Methyl Isobutyl Ketone (MIBK)	µg/L	n/v	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5	<5.0	<5.0
Methyl tert-butyl ether (MTBE)	µg/L	15[D]	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.5	<0.50	<0.50
Methylene Chloride (Dichloromethane)	µg/L	50[B]	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2	<2.0	<2.0
Styrene	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.5	<0.50	<0.50
Tetrachloroethane, 1,1,1,2-	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.5	<0.50	<0.50
Tetrachloroethane, 1,1,2,2-	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.5	<0.50	<0.50
Tetrachloroethene (PCE)	µg/L	10[B]	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.2	<0.20	<0.20
Trichloroethane, 1,1,1-	µg/L	n/v	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.2	<0.20	<0.20
Trichloroethane, 1,1,2-	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.5	<0.50	<0.50
Trichloroethene (TCE)	µg/L	5[B]	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.2	<0.20	<0.20
Trichlorofluoromethane (Freon 11)	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.5	<0.50	<0.50
Trihalomethanes	µg/L	100$_e$[B]	<0.20	<0.20	<1.0	<0.20	<1.0	<0.20	<0.20	<1	<0.20	<0.20
Vinyl Chloride	µg/L	1[B]	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.2	<0.20	<0.20

See notes on last page

Table 8
Summary of Groundwater Analytical Results - Private Wells
Clarington Tranformer Station
Hydro One Networks Inc.

Aquifer Unit			Thorncliffe Formation										
Sample Date			1-Nov-16	25-Apr-17	16-Oct-17	22-Sep-14	8-Oct-14	8-Apr-15	5-Oct-15	11-Apr-16	2-Nov-16	25-Apr-17	17-Oct-17
Sample ID			WG-160900764-20161101-JK6	WG-160900764-20170425-JK15	WG-160900764-20171016-JK3	WG-160900764-20140922-JK02	WG-160900764-20141008-AD21	WG-160900764-20150408-AD02	WG-160900764-20151005-JK4	WG-160900764-20160411-JK3	WG-160900764-20161102-JK15	WG-160900764-20170425-JK13	WG-160900764-20171017-JK13
Water Type			Raw	Raw	Raw	Treated	Treated	Raw	Raw	Raw	Raw	Raw	Raw
Sample Tap			Inside (Basement)	Inside (Basement)	Inside (Basement)	Inside (Kitchen)	Inside (Kitchen)	Inside (Kitchen)	Inside (Kitchen)	Inside (Kitchen)	Inside (Kitchen)	Inside (Kitchen)	Inside (Kitchen)
Treatment Type			None	None	None	Charcoal Filter	Charcoal Filter	Charcoal Filter	Charcoal Filter	Charcoal Filter	Charcoal Filter	Charcoal Filter	Charcoal Filter
Sampling Company			STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC
Laboratory			MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX
Laboratory Work Order			B6N7539	B783174	B7M9357	B4H5247	B4I8196	B561586	B5K2703	B671945	B6N8820	B783174	B7N0778
Laboratory Sample ID			DJI432	EGU901	FIP273	XR1307	XX8292	ABP509	BCM869	CEE708	DJO305	EGU899	FIX853
Filtered	Units	ODWS	Total Metals	Total Metals	Total Metals	Total Metals	Total Metals	Total Metals	Total Metals	Total Metals	Total Metals	Total Metals	Total Metals
General Chemistry													
Acidity	mg/L	n/v	11	11	8.8	<10	<10	<10	<10	<10	<10	<10	<5.0
Alkalinity, Bicarbonate (as CaCO3)	mg/L	n/v	200	200	200	150	160	150	160	160	160	150	160
Alkalinity, Carbonate (as CaCO3)	mg/L	n/v	2.3	2.3	2.2	1.7	1.7	1.7	<1.0	<1.0	1.8	1.9	2.2
Alkalinity, Total (as CaCO3)	mg/L	30-500[E]	200	200	200	150	160	150	160	160	160	150	160
Ammonia (as N)	mg/L	n/v	1.1	0.093	0.12	0.16	0.13	0.13	0.11	0.12	0.11	0.13	0.094
Anion Sum	me/L	n/v	4.44	4.39	4.49	3.14	3.37	3.26	3.39	3.39	3.36	3.32	3.41
Cation Sum	me/L	n/v	4.35	4.39	4.37	3.51	3.29	3.26	3.52	3.27	3.28	3.31	3.20
Chloride	mg/L	250[D]	2.7	2.4	2.0	1	<1	<1	1.2	<1.0	<1.0	1.3	1.0
Cyanide (Free)	µg/L	200[B]	<1	<1	<1	<2	<2	<2	<2	<2	<1	<1	<1
Dissolved Organic Carbon (DOC)	mg/L	5[D]	1.4	1.5	1.3	1.1	0.67	0.57	0.55	0.66	0.69	0.70	0.67
Electrical Conductivity, Lab	µmhos/cm	n/v	410	400	370	290	310	310	300	300	310	310	290
Fluoride	mg/L	1.5$_b$[B]	0.10	<0.10	<0.10	0.25	0.24	0.28	0.26	0.26	0.28	0.27	0.25
Hardness (as CaCO3)	mg/L	80-100[E]	**200[E]**	**200[E]**	**200[E]**	**130[E]**	**130[E]**	**130[E]**	**150[E]**	**130[E]**	**130[E]**	**130[E]**	**130[E]**
Ion Balance	%	n/v	1.06	0.0800	1.31	5.51	1.16	0.0600	1.98	1.82	1.11	0.180	3.17
Langelier Index (at 20 C)	none	n/v	0.721	0.745	0.738	0.364	0.358	0.328	0.0840	0.112	0.368	0.383	0.451
Langelier Index (at 4 C)	none	n/v	0.471	0.495	0.488	0.113	0.107	0.0780	-0.166	-0.138	0.117	0.133	0.201
Nitrate (as N)	mg/L	10.0$_d$[B]	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Nitrate + Nitrite (as N)	mg/L	10.0$_d$[B]	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Nitrite (as N)	mg/L	1.0$_d$[B]	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Orthophosphate(as P)	mg/L	n/v	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	0.012	0.012	0.011	<0.010
pH	S.U.	6.5-8.5[E]	8.08	8.09	8.07	8.10	8.06	8.06	7.77	7.79	8.08	8.12	8.17
Saturation pH (at 20 C)	none	n/v	7.36	7.34	7.33	7.73	7.71	7.74	7.69	7.68	7.71	7.73	7.72
Saturation pH (at 4 C)	none	n/v	7.61	7.59	7.58	7.98	7.96	7.99	7.94	7.93	7.96	7.98	7.97
Sulfate	mg/L	500$_n$[D]	17	14	17	6	9	8	9.8	9.6	9.0	9.6	9.4
Total Dissolved Solids	mg/L	500[D]	230	232	215	126	174	198	198	146	176	190	170
Total Organic Carbon	mg/L	n/v	1.4	1.3	1.7	1.1	0.65	0.51	0.58	0.71	1.0	0.48	0.68
Total Suspended Solids	mg/L	n/v	<10	<10	<10	27	<10	<10	<10	<10	<10	<10	<10
Turbidity, Lab	NTU	5$_{ij}$[D, E]	**5.8[D]**	**6.5[D]**	**7.2[D]**	**31[D]**	**7.6[D]**	2.9	<0.2	0.6	0.9	2.2	0.4
Metals													
Aluminum	µg/L	100[E]	<5	<5.0	<5	16	<5.0	<5	<5.0	<5.0	<5	5.2	<5
Antimony	µg/L	6[C]	<0.5	<0.50	<0.5	<0.50	<0.50	<0.5	<0.5	<0.50	<0.5	<0.50	<0.5
Arsenic	µg/L	25[C]	<1	<1.0	<1	1.5	1.5	1.8	1.6	1.6	1.4	1.7	1.4
Barium	µg/L	1,000[B]	140	130	140	99	120	110	120	130	110	120	120
Beryllium	µg/L	n/v	<0.5	<0.50	<0.5	<0.50	<0.50	<0.5	<0.5	<0.50	<0.5	<0.50	<0.5
Boron	µg/L	5,000[C]	11	11	10	38	43	42	37	44	39	45	43
Cadmium	µg/L	5[B]	<0.1	<0.10	<0.1	<0.10	<0.10	<0.1	<0.1	<0.10	<0.1	<0.10	<0.1
Calcium	µg/L	n/v	54,000	56,000	56,000	28,000	30,000	29,000	32,000	31,000	29,000	29,000	29,000
Chromium	µg/L	50[B]	<5	<5.0	<5	<5.0	<5.0	<5	<5.0	<5.0	<5	<5.0	<5
Chromium (Hexavalent)	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Cobalt	µg/L	n/v	<0.5	<0.50	<0.5	<0.50	<0.50	<0.5	<0.5	<0.50	<0.5	<0.50	<0.5
Copper	µg/L	1,000[D]	1.9	1.3	1.2	<1.0	<1.0	<1	<1	<1.0	<1	<1.0	<1
Iron	µg/L	300[D]	**1,500[D]**	**1,800[D]**	**1,800[D]**	**7,700[D]**	**880[D]**	**590[D]**	<100	160	**350[D]**	**510[D]**	120
Lead	µg/L	10$_c$[B]	<0.5	<0.50	<0.5	0.95	<0.50	<0.5	<0.5	<0.50	<0.5	<0.50	<0.5
Magnesium	µg/L	n/v	16,000	16,000	16,000	14,000	15,000	15,000	16,000	14,000	15,000	15,000	14,000
Manganese	µg/L	50[D]	27	37	31	**96[D]**	40	**55[D]**	29	36	29	22	25
Mercury	µg/L	1[B]	<0.1	<0.1	<0.1	<0.10	<0.10	<0.1	<0.1	<0.10	<0.1	<0.1	<0.1
Molybdenum	µg/L	n/v	0.67	0.80	0.71	<0.50	1.1	1	1.6	1.4	1.1	1.1	1.4
Nickel	µg/L	n/v	<1	<1.0	<1	1.2	<1.0	<1	<1	<1.0	<1	<1.0	<1
Phosphorus	µg/L	n/v	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
Potassium	µg/L	n/v	950	890	850	840	810	860	880	860	880	890	850
Selenium	µg/L	50[B]	<2	<2.0	<2	<2.0	<2.0	<2	<2	<2.0	<2	<2.0	<2
Silicon	µg/L	n/v	9,200	9,100	9,400	9,200	11,000	9,800	11,000	11,000	10,000	10,000	10,000
Silver	µg/L	n/v	<0.1	<0.10	<0.1	<0.10	<0.10	<0.1	<0.1	<0.10	<0.1	<0.10	<0.1
Sodium	µg/L	200,000$_g$[D] 20,000$_g$[F]	4,500	4,600	4,300	14,000	13,000	12,000	14,000	13,000	13,000	13,000	13,000
Strontium	µg/L	n/v	220	210	230	310	320	320	330	330	300	310	310
Thallium	µg/L	n/v	<0.05	<0.050	<0.05	<0.050	<0.050	<0.05	<0.05	<0.05	<0.05	<0.050	<0.05
Titanium	µg/L	n/v	<5	<5.0	<5	<5.0	<5.0	<5	<5.0	<5.0	<5	<5.0	<5
Uranium	µg/L	20[B]	<0.1	<0.10	<0.1	<0.10	<0.10	<0.1	<0.1	<0.10	<0.1	<0.10	<0.1
Vanadium	µg/L	n/v	<0.5	<0.50	<0.5	<0.50	<0.50	<0.5	<0.5	<0.50	<0.5	<0.50	<0.5
Zinc	µg/L	5,000[D]	5.8	<5.0	<5	<5.0	<5.0	<5	<5.0	<5.0	<5	<5.0	<5
Zirconium	µg/L	n/v	<1	<1.0	<1	<1.0	<1.0	<1	<1	<1.0	<1	<1.0	<1
Microbiological Analysis													
Escherichia coli (E.Coli)	cfu/100mL	0[A]	0	0	0	0	0	0	0	0	0	0	0
Total Coliform Background	cfu/100mL	n/v	0	0	37	3	16	0	10	12	2	0	21
Total Coliforms	cfu/100mL	0[A]	0	0	0	0	0	0	**1[A]**	0	**1[A]**	0	0
BTEX and Petroleum Hydrocarbons													
Benzene	µg/L	1[B]	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Toluene	µg/L	60[B] 24[D]	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Ethylbenzene	µg/L	140[B] 1.6[D]	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Xylene, m & p-	µg/L	300$_{s1}$[D]	<0.40	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.40	<0.20	<0.20	<0.20
Xylene, o-	µg/L	300$_{s1}$[D]	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Xylenes, Total	µg/L	90[B] 20[D]	<0.40	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.40	<0.20	<0.20	<0.20
PHC F1 (C6-C10 range)	µg/L	n/v	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
PHC F1 (C6-C10 range) minus BTEX	µg/L	n/v	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
PHC F2 (>C10-C16 range)	µg/L	n/v	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
PHC F3 (>C16-C34 range)	µg/L	n/v	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200
PHC F4 (>C34-C50 range)	µg/L	n/v	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200
Chromatogram to baseline at C50	none	n/v	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
Polychlorinated Biphenyls													
Aroclor 1242	µg/L	n/v	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Aroclor 1248	µg/L	n/v	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Aroclor 1254	µg/L	n/v	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Aroclor 1260	µg/L	n/v	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Polychlorinated Biphenyls (PCBs)	µg/L	3[C]	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05

See notes on last page

Table 8
Summary of Groundwater Analytical Results - Private Wells
Clarington Tranformer Station
Hydro One Networks Inc.

Aquifer Unit			Thorncliffe Formation										
Sample Date			1-Nov-16	25-Apr-17	16-Oct-17	22-Sep-14	8-Oct-14	8-Apr-15	5-Oct-15	11-Apr-16	2-Nov-16	25-Apr-17	17-Oct-17
Sample ID			WG-160900764-20161101-JK6	WG-160900764-20170425-JK15	WG-160900764-20171016-JK3	WG-160900764-20140922-JK02	WG-160900764-20141008-AD21	WG-160900764-20150408-AD02	WG-160900764-20151005-JK4	WG-160900764-20160411-JK3	WG-160900764-20161102-JK15	WG-160900764-20170425-JK13	WG-160900764-20171017-JK13
Water Type			Raw	Raw	Raw	Treated	Treated	Raw	Raw	Raw	Raw	Raw	Raw
Sample Tap			Inside (Basement)	Inside (Basement)	Inside (Basement)	Inside (Kitchen)	Inside (Kitchen)	Inside (Kitchen)	Inside (Kitchen)	Inside (Kitchen)	Inside (Kitchen)	Inside (Kitchen)	Inside (Kitchen)
Treatment Type			None	None	None	Charcoal Filter	Charcoal Filter	Charcoal Filter	Charcoal Filter	Charcoal Filter	Charcoal Filter	Charcoal Filter	Charcoal Filter
Sampling Company			STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC
Laboratory			MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX
Laboratory Work Order			B6N7539	B783174	B7M9357	B4H5247	B4I8196	B561586	B5K2703	B671945	B6N8820	B783174	B7N0778
Laboratory Sample ID			DJI432	EGU901	FIP273	XR1307	XX8292	ABP509	BCM869	CEE708	DJO305	EGU899	FIX853
Filtered	Units	ODWS	Total Metals	Total Metals	Total Metals	Total Metals	Total Metals	Total Metals	Total Metals	Total Metals	Total Metals	Total Metals	Total Metals
Semi-Volatile Organic Compounds													
Acenaphthene	µg/L	n/v	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Acenaphthylene	µg/L	n/v	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Anthracene	µg/L	n/v	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(a)anthracene	µg/L	n/v	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(a)pyrene	µg/L	0.01[B]	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Benzo(b/j)fluoranthene	µg/L	n/v	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(g,h,i)perylene	µg/L	n/v	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(k)fluoranthene	µg/L	n/v	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Biphenyl, 1,1'- (Biphenyl)	µg/L	n/v	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Bis(2-Chloroethyl)ether	µg/L	n/v	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Bis(2-Chloroisopropyl)ether	µg/L	n/v	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Bis(2-Ethylhexyl)phthalate (DEHP)	µg/L	n/v	<1	2	<1	4	<1	<1	<1	<1	<1	<1	<1
Chloroaniline, 4-	µg/L	n/v	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chlorophenol, 2- (ortho-Chlorophenol)	µg/L	n/v	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Chrysene	µg/L	n/v	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Dibenzo(a,h)anthracene	µg/L	n/v	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dichlorobenzidine, 3,3'-	µg/L	n/v	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Dichlorophenol, 2,4-	µg/L	900[B] 0.3$_f$[D]	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Diethyl Phthalate	µg/L	n/v	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.1	<0.1
Dimethyl Phthalate	µg/L	n/v	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dimethylphenol, 2,4-	µg/L	n/v	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Dinitrophenol, 2,4-	µg/L	n/v	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Dinitrotoluene, 2,4-	µg/L	n/v	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Dinitrotoluene, 2,6-	µg/L	n/v	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Fluoranthene	µg/L	n/v	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Fluorene	µg/L	n/v	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Indeno(1,2,3-cd)pyrene	µg/L	n/v	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Methylnaphthalene (Total)	µg/L	n/v	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28
Methylnaphthalene, 1-	µg/L	n/v	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Methylnaphthalene, 2-	µg/L	n/v	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Naphthalene	µg/L	n/v	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Pentachlorophenol	µg/L	60[B] 30$_f$[D]	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	µg/L	n/v	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Phenol	µg/L	n/v	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Pyrene	µg/L	n/v	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Trichlorobenzene, 1,2,4-	µg/L	n/v	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Trichlorophenol, 2,4,5-	µg/L	n/v	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Trichlorophenol, 2,4,6-	µg/L	5[B] 2$_f$[D]	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Volatile Organic Compounds													
Acetone	µg/L	n/v	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Bromodichloromethane	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Bromoform (Tribromomethane)	µg/L	n/v	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromomethane (Methyl bromide)	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Carbon Tetrachloride (Tetrachloromethane)	µg/L	2[B]	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Chlorobenzene (Monochlorobenzene)	µg/L	80[B] 30$_f$[D]	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Chloroform (Trichloromethane)	µg/L	n/v	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Dibromochloromethane	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Dichlorobenzene, 1,2-	µg/L	200[B] 3$_f$[D]	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Dichlorobenzene, 1,3-	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Dichlorobenzene, 1,4-	µg/L	5[B] 1$_f$[D]	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Dichlorodifluoromethane (Freon 12)	µg/L	n/v	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Dichloroethane, 1,1-	µg/L	n/v	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Dichloroethane, 1,2-	µg/L	5[C]	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Dichloroethene, 1,1-	µg/L	14[B]	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Dichloroethene, cis-1,2-	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Dichloroethene, trans-1,2-	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Dichloropropane, 1,2-	µg/L	n/v	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Dichloropropene, 1,3- (sum of isomers cis + trans)	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Dichloropropene, cis-1,3-	µg/L	n/v	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
Dichloropropene, trans-1,3-	µg/L	n/v	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40
Ethylene Dibromide (Dibromoethane, 1,2-)	µg/L	n/v	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Hexane (n-Hexane)	µg/L	n/v	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Methyl Ethyl Ketone (MEK) (2-Butanone)	µg/L	n/v	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Methyl Isobutyl Ketone (MIBK)	µg/L	n/v	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Methyl tert-butyl ether (MTBE)	µg/L	15[D]	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Methylene Chloride (Dichloromethane)	µg/L	50[B]	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Styrene	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Tetrachloroethane, 1,1,1,2-	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Tetrachloroethane, 1,1,2,2-	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Tetrachloroethene (PCE)	µg/L	10[B]	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Trichloroethane, 1,1,1-	µg/L	n/v	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Trichloroethane, 1,1,2-	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Trichloroethene (TCE)	µg/L	5[B]	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Trichlorofluoromethane (Freon 11)	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Trihalomethanes	µg/L	100$_e$[B]	<1.0	<0.20	<1.0	<0.20	<0.20	<1	<0.20	<0.20	<1.0	<0.20	<1.0
Vinyl Chloride	µg/L	1[B]	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20

See notes on last page

Table 8
Summary of Groundwater Analytical Results - Private Wells
Clarington Tranformer Station
Hydro One Networks Inc.

Aquifer Unit			Other/Unconfirmed								
Sample Date			31-Jul-14	6-Oct-14	15-Apr-15	8-Oct-15	13-Apr-16	3-Nov-16	26-Apr-17	18-Oct-17	18-Oct-17
Sample ID			WG-160900764-20140731-JK2	WG-160900764-20141006-AD04	WG-160900764-20150415-JK7	WG-160900764-20151008-JK24	WG-160900764-20160413-JK20	WG-160900764-20161103-JK21	WG-160900764-20170426-JK24	WG-160900764-20171018-JK23	WG-160900764-20171018-JK24
Water Type			Treated	Treated	Treated	Treated	Treated	Treated	Raw	Treated	Raw
Sample Tap			Outside (Back house)	Outside (Back house)	Outside (Back house)	Outside (Back house)	Outside (Back house)	Outside (Back house)	Inside (Basement)	Outside (Back house)	Inside (Basement)
Treatment Type			Softener / Charcoal Filter / UV	Softener / Charcoal Filter / UV	Softener / Charcoal Filter / UV	Softener / Charcoal Filter / UV	Softener / Charcoal Filter / UV	Softener / Charcoal Filter / UV	None	Softener / Charcoal Filter / UV	None
Sampling Company			STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC
Laboratory			MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX
Laboratory Work Order			B4D8040	B4I6091	B567144	B5K5292	B674120	B6N8820	B782997	B7N2030	B7N2030
Laboratory Sample ID			WY7356	XW7258	ACQ225	BDB101	CEO963	DJO312	EGU147	FJE420	FJE421
Filtered	Units	ODWS	Lab Filtered Metals	Total Metals	Total Metals	Total Metals	Total Metals	Total Metals	Total Metals	Total Metals	Total Metals
General Chemistry											
Acidity	mg/L	n/v	22	25	27	45	36	38	47	25	19
Alkalinity, Bicarbonate (as CaCO3)	mg/L	n/v	290	300	310	300	300	320	310	310	310
Alkalinity, Carbonate (as CaCO3)	mg/L	n/v	2.1	1.8	1.1	1.1	2.4	2.1	1.7	2.4	2.3
Alkalinity, Total (as CaCO3)	mg/L	30-500[E]	290	300	310	300	310	320	310	310	310
Ammonia (as N)	mg/L	n/v	<0.050	0.099	<0.05	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Anion Sum	me/L	n/v	8.88	9.17	9.52	9.16	9.17	9.53	9.73	9.23	9.21
Cation Sum	me/L	n/v	9.04	9.08	8.94	9.59	8.82	9.19	9.55	8.88	8.71
Chloride	mg/L	250[D]	75	81	86	78	76	83	97	76	75
Cyanide (Free)	µg/L	200[B]	<2	<2	<2	<2	<2	<1	<1	<1	<1
Dissolved Organic Carbon (DOC)	mg/L	5[D]	0.80	0.86	0.69	0.72	0.80	0.91	0.93	0.87	0.87
Electrical Conductivity, Lab	µmhos/cm	n/v	860	890	900	870	880	910	950	850	850
Fluoride	mg/L	1.5_b[B]	<0.10	<0.10	<0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Hardness (as CaCO3)	mg/L	80-100[E]	**410[E]**	**400[E]**	**390[E]**	**420[E]**	**400[E]**	**390[E]**	**400[E]**	**390[E]**	**380[E]**
Ion Balance	%	n/v	0.910	0.470	3.16	2.27	1.94	1.81	0.920	1.93	2.80
Langelier Index (at 20 C)	none	n/v	0.945	0.888	0.672	0.688	1.01	0.940	0.876	1.00	0.973
Langelier Index (at 4 C)	none	n/v	0.698	0.640	0.424	0.440	0.757	0.692	0.628	0.754	0.725
Nitrate (as N)	mg/L	10.0_d[B]	1.41	1.10	1.06	1.08	0.89	0.81	0.72	1.25	1.31
Nitrate + Nitrite (as N)	mg/L	10.0_d[B]	1.41	1.1	1.06	1.08	0.89	0.81	0.72	1.25	1.31
Nitrite (as N)	mg/L	1.0_d[B]	<0.010	<0.010	<0.01	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Orthophosphate(as P)	mg/L	n/v	<0.010	<0.010	<0.01	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
pH	S.U.	6.5-8.5[E]	7.88	7.81	7.59	7.58	7.93	7.84	7.78	7.93	7.90
Saturation pH (at 20 C)	none	n/v	6.94	6.92	6.92	6.89	6.93	6.90	6.90	6.92	6.93
Saturation pH (at 4 C)	none	n/v	7.18	7.17	7.17	7.14	7.17	7.14	7.15	7.17	7.18
Sulfate	mg/L	500_n[D]	39	40	38	38	39	31	37	37	37
Total Dissolved Solids	mg/L	500[D]	**554[D]**	468	**524[D]**	492	490	**512[D]**	**536[D]**	485	475
Total Organic Carbon	mg/L	n/v	0.85	0.79	0.73	0.74	0.78	0.86	0.65	0.81	0.84
Total Suspended Solids	mg/L	n/v	<10	<10	<10	<10	<10	<10	<10	<10	<10
Turbidity, Lab	NTU	5_i[D,E]	1.3	**5.6[D]**	0.3	0.7	0.3	2.1	0.6	0.9	0.8
Metals											
Aluminum	µg/L	100[E]	<5.0	<5.0	<5	<5.0	<5.0	<5	<5.0	<5	<5
Antimony	µg/L	6[C]	<0.50	<0.50	<0.5	<0.5	<0.50	<0.5	<0.50	<0.5	<0.5
Arsenic	µg/L	25[C]	<1.0	<1.0	<1	<1	<1.0	<1	<1.0	<1	<1
Barium	µg/L	1,000[B]	64	67	65	65	65	67	67	63	62
Beryllium	µg/L	n/v	<0.50	<0.50	<0.5	<0.5	<0.50	<0.5	<0.50	<0.5	<0.5
Boron	µg/L	5,000[C]	10	<10	11	<10	<10	10	<10	10	10
Cadmium	µg/L	5[B]	<0.10	<0.10	<0.1	<0.1	<0.10	<0.1	<0.10	<0.1	<0.1
Calcium	µg/L	n/v	120,000	120,000	110,000	120,000	110,000	120,000	120,000	110,000	110,000
Chromium	µg/L	50[B]	<5.0	<5.0	<5	<5.0	<5.0	<5	<5.0	<5	<5
Chromium (Hexavalent)	µg/L	n/v	<0.50	<0.50	<0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Cobalt	µg/L	n/v	<0.50	<0.50	<0.5	<0.5	<0.50	<0.5	<0.50	<0.5	<0.5
Copper	µg/L	1,000[D]	2.9	1.4	20	5	4.8	8.3	6.0	7.3	3.9
Iron	µg/L	300[D]	<100	130	100	<100	<100	**340[D]**	**780[D]**	**340[D]**	220
Lead	µg/L	10_c[B]	<0.50	<0.50	0.73	<0.5	<0.50	<0.5	<0.50	<0.5	0.92
Magnesium	µg/L	n/v	26,000	27,000	25,000	28,000	28,000	25,000	25,000	26,000	26,000
Manganese	µg/L	50[D]	4.5	12	2.8	2.8	2.9	3.8	6.9	5.4	3.9
Mercury	µg/L	1[B]	<0.10	<0.10	<0.1	<0.1	<0.10	<0.1	<0.1	<0.1	<0.1
Molybdenum	µg/L	n/v	<0.50	<0.50	<0.5	0.59	<0.50	<0.5	<0.50	<0.5	<0.5
Nickel	µg/L	n/v	<1.0	1.0	<1	<1	<1.0	<1	<1.0	<1	<1
Phosphorus	µg/L	n/v	<100	<100	<100	<100	<100	<100	<100	<100	<100
Potassium	µg/L	n/v	1,900	2,000	1,900	2,000	1,900	2,000	1,900	1,900	1,900
Selenium	µg/L	50[B]	<2.0	<2.0	<2	<2	<2.0	<2	<2.0	<2	<2
Silicon	µg/L	n/v	7,000	6,800	6,000	6,800	6,300	6,200	6,400	6,200	6,100
Silver	µg/L	n/v	<0.10	<0.10	<0.1	<0.1	<0.10	<0.1	<0.10	<0.1	<0.1
Sodium	µg/L	$200,000_g$[D] $20,000_g$[F]	**21,000[F]**	**22,000[F]**	**26,000[F]**	**25,000[F]**	19,000	**31,000[F]**	**32,000[F]**	**24,000[F]**	**24,000[F]**
Strontium	µg/L	n/v	260	290	270	300	280	270	260	260	260
Thallium	µg/L	n/v	<0.050	<0.050	<0.05	<0.05	<0.05	<0.05	<0.050	<0.05	<0.05
Titanium	µg/L	n/v	<5.0	<5.0	<5	<5.0	<5.0	<5	<5.0	<5	<5
Uranium	µg/L	20[B]	16	15	13	14	15	8.8	13	14	15
Vanadium	µg/L	n/v	<0.50	<0.50	<0.5	<0.5	<0.50	<0.5	<0.50	<0.5	<0.5
Zinc	µg/L	5,000[D]	10	7.7	40	17	18	17	13	11	5.9
Zirconium	µg/L	n/v	<1.0	<1.0	<1	<1	<1.0	<1	<1.0	<1	<1
Microbiological Analysis											
Escherichia coli (E.Coli)	cfu/100mL	0[A]	-	0	0	0	0	0	0	0	0
Total Coliform Background	cfu/100mL	n/v	-	0	0	0	0	0	0	0	0
Total Coliforms	cfu/100mL	0[A]	-	0	0	0	0	0	0	0	0
BTEX and Petroleum Hydrocarbons											
Benzene	µg/L	1[B]	<0.20	<0.20	<0.2	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Toluene	µg/L	60[B] 24[D]	<0.20	<0.20	<0.2	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Ethylbenzene	µg/L	140[B] 1.6[D]	<0.20	<0.20	<0.2	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Xylene, m & p-	µg/L	300_{s1}[D]	<0.20	<0.20	<0.2	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Xylene, o-	µg/L	300_{s1}[D]	<0.20	<0.20	<0.2	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Xylenes, Total	µg/L	90[B] 20[D]	<0.20	<0.20	<0.2	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
PHC F1 (C6-C10 range)	µg/L	n/v	<25	<25	<25	<25	<25	<25	<25	<25	<25
PHC F1 (C6-C10 range) minus BTEX	µg/L	n/v	<25	<25	<25	<25	<25	<25	<25	<25	<25
PHC F2 (>C10-C16 range)	µg/L	n/v	<100	<100	<100	<100	<100	<100	150	<100	<100
PHC F3 (>C16-C34 range)	µg/L	n/v	<200	<200	<200	<200	<200	<200	<200	<200	<200
PHC F4 (>C34-C50 range)	µg/L	n/v	<200	<200	<200	<200	<200	<200	<200	<200	<200
Chromatogram to baseline at C50	none	n/v	YES	YES	YES	YES	YES	YES	YES	YES	YES
Polychlorinated Biphenyls											
Aroclor 1242	µg/L	n/v	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Aroclor 1248	µg/L	n/v	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Aroclor 1254	µg/L	n/v	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Aroclor 1260	µg/L	n/v	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Polychlorinated Biphenyls (PCBs)	µg/L	3[C]	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05

See notes on last page

Table 8
Summary of Groundwater Analytical Results - Private Wells
Clarington Tranformer Station
Hydro One Networks Inc.

Aquifer Unit			Other/Unconfirmed								
Sample Date			31-Jul-14	6-Oct-14	15-Apr-15	8-Oct-15	13-Apr-16	3-Nov-16	26-Apr-17	18-Oct-17	18-Oct-17
Sample ID			WG-160900764-20140731-JK2	WG-160900764-20141006-AD04	WG-160900764-20150415-JK7	WG-160900764-20151008-JK24	WG-160900764-20160413-JK20	WG-160900764-20161103-JK21	WG-160900764-20170426-JK24	WG-160900764-20171018-JK23	WG-160900764-20171018-JK24
Water Type			Treated	Treated	Treated	Treated	Treated	Treated	Raw	Treated	Raw
Sample Tap			Outside (Back house)	Outside (Back house)	Outside (Back house)	Outside (Back house)	Outside (Back house)	Outside (Back house)	Inside (Basement)	Outside (Back house)	Inside (Basement)
Treatment Type			Softener / Charcoal Filter / UV	Softener / Charcoal Filter / UV	Softener / Charcoal Filter / UV	Softener / Charcoal Filter / UV	Softener / Charcoal Filter / UV	Softener / Charcoal Filter / UV	None	Softener / Charcoal Filter / UV	None
Sampling Company			STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC
Laboratory			MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX
Laboratory Work Order			B4D8040	B4I6091	B567144	B5K5292	B674120	B6N8820	B782997	B7N2030	B7N2030
Laboratory Sample ID			WY7356	XW7258	ACQ225	BDB101	CEO963	DJO312	EGU147	FJE420	FJE421
Filtered	Units	ODWS	Lab Filtered Metals	Total Metals	Total Metals	Total Metals	Total Metals	Total Metals	Total Metals	Total Metals	Total Metals
Semi-Volatile Organic Compounds											
Acenaphthene	µg/L	n/v	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Acenaphthylene	µg/L	n/v	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Anthracene	µg/L	n/v	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(a)anthracene	µg/L	n/v	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(a)pyrene	µg/L	0.01[B]	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Benzo(b/j)fluoranthene	µg/L	n/v	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(g,h,i)perylene	µg/L	n/v	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(k)fluoranthene	µg/L	n/v	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Biphenyl, 1,1'- (Biphenyl)	µg/L	n/v	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Bis(2-Chloroethyl)ether	µg/L	n/v	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Bis(2-Chloroisopropyl)ether	µg/L	n/v	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Bis(2-Ethylhexyl)phthalate (DEHP)	µg/L	n/v	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroaniline, 4-	µg/L	n/v	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chlorophenol, 2- (ortho-Chlorophenol)	µg/L	n/v	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Chrysene	µg/L	n/v	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Dibenzo(a,h)anthracene	µg/L	n/v	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dichlorobenzidine, 3,3'-	µg/L	n/v	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Dichlorophenol, 2,4-	µg/L	900[B] 0.3$_f$[D]	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Diethyl Phthalate	µg/L	n/v	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dimethyl Phthalate	µg/L	n/v	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dimethylphenol, 2,4-	µg/L	n/v	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Dinitrophenol, 2,4-	µg/L	n/v	<2	<2	<2	<2	<2	<2	<2	<2	<2
Dinitrotoluene, 2,4-	µg/L	n/v	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Dinitrotoluene, 2,6-	µg/L	n/v	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Fluoranthene	µg/L	n/v	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Fluorene	µg/L	n/v	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Indeno(1,2,3-cd)pyrene	µg/L	n/v	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Methylnaphthalene (Total)	µg/L	n/v	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28
Methylnaphthalene, 1-	µg/L	n/v	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Methylnaphthalene, 2-	µg/L	n/v	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Naphthalene	µg/L	n/v	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Pentachlorophenol	µg/L	60[B] 30$_f$[D]	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	µg/L	n/v	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Phenol	µg/L	n/v	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Pyrene	µg/L	n/v	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Trichlorobenzene, 1,2,4-	µg/L	n/v	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Trichlorophenol, 2,4,5-	µg/L	n/v	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Trichlorophenol, 2,4,6-	µg/L	5[B] 2$_f$[D]	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Volatile Organic Compounds											
Acetone	µg/L	n/v	<10	<10	<10	<10	<10	<10	<10	<10	<10
Bromodichloromethane	µg/L	n/v	<0.50	<0.50	<0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Bromoform (Tribromomethane)	µg/L	n/v	<1.0	<1.0	<1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromomethane (Methyl bromide)	µg/L	n/v	<0.50	<0.50	<0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Carbon Tetrachloride (Tetrachloromethane)	µg/L	2[B]	<0.20	<0.20	<0.2	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Chlorobenzene (Monochlorobenzene)	µg/L	80[B] 30$_f$[D]	<0.20	<0.20	<0.2	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Chloroform (Trichloromethane)	µg/L	n/v	<0.20	<0.20	<0.2	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Dibromochloromethane	µg/L	n/v	<0.50	<0.50	<0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Dichlorobenzene, 1,2-	µg/L	200[B] 3$_f$[D]	<0.50	<0.50	<0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Dichlorobenzene, 1,3-	µg/L	n/v	<0.50	<0.50	<0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Dichlorobenzene, 1,4-	µg/L	5[B] 1$_f$[D]	<0.50	<0.50	<0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Dichlorodifluoromethane (Freon 12)	µg/L	n/v	<1.0	<1.0	<1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Dichloroethane, 1,1-	µg/L	n/v	<0.20	<0.20	<0.2	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Dichloroethane, 1,2-	µg/L	5[C]	<0.50	<0.50	<0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Dichloroethene, 1,1-	µg/L	14[B]	<0.20	<0.20	<0.2	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Dichloroethene, cis-1,2-	µg/L	n/v	<0.50	<0.50	<0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Dichloroethene, trans-1,2-	µg/L	n/v	<0.50	<0.50	<0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Dichloropropane, 1,2-	µg/L	n/v	<0.20	<0.20	<0.2	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Dichloropropene, 1,3- (sum of isomers cis + trans)	µg/L	n/v	<0.50	<0.50	<0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Dichloropropene, cis-1,3-	µg/L	n/v	<0.30	<0.30	<0.3	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
Dichloropropene, trans-1,3-	µg/L	n/v	<0.40	<0.40	<0.4	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40
Ethylene Dibromide (Dibromoethane, 1,2-)	µg/L	n/v	<0.20	<0.20	<0.2	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Hexane (n-Hexane)	µg/L	n/v	<1.0	<1.0	<1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Methyl Ethyl Ketone (MEK) (2-Butanone)	µg/L	n/v	<10	<10	<10	<10	<10	<10	<10	<10	<10
Methyl Isobutyl Ketone (MIBK)	µg/L	n/v	<5.0	<5.0	<5	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Methyl tert-butyl ether (MTBE)	µg/L	15[D]	<0.50	<0.50	<0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Methylene Chloride (Dichloromethane)	µg/L	50[B]	<2.0	<2.0	<2	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Styrene	µg/L	n/v	<0.50	<0.50	<0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Tetrachloroethane, 1,1,1,2-	µg/L	n/v	<0.50	<0.50	<0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Tetrachloroethane, 1,1,2,2-	µg/L	n/v	<0.50	<0.50	<0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Tetrachloroethene (PCE)	µg/L	10[B]	<0.20	<0.20	<0.2	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Trichloroethane, 1,1,1-	µg/L	n/v	<0.20	<0.20	<0.2	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Trichloroethane, 1,1,2-	µg/L	n/v	<0.50	<0.50	<0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Trichloroethene (TCE)	µg/L	5[B]	<0.20	<0.20	<0.2	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Trichlorofluoromethane (Freon 11)	µg/L	n/v	<0.50	<0.50	<0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Trihalomethanes	µg/L	100$_e$[B]	<0.20	<0.20	<1	<0.20	<0.20	<1.0	<0.20	<1.0	-
Vinyl Chloride	µg/L	1[B]	<0.20	<0.20	<0.2	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20

See notes on last page

Table 8
Summary of Groundwater Analytical Results - Private Wells
Clarington Tranformer Station
Hydro One Networks Inc.

Aquifer Unit			Other/Unconfirmed								
Sample Date			31-Jul-14	8-Oct-14	11-Nov-14	8-Apr-15	5-Oct-15	11-Apr-16	1-Nov-16	25-Apr-17	17-Oct-17
Sample ID			WG-160900764-20140731-JK4	WG-160900764-20141008-AD23	WG-160900764-20141111-AD02	WG-160900764-20150408-AD03	WG-160900764-20151005-JK6	WG-160900764-20160411-JK2	WG-160900764-20161101-JK9	WG-160900764-20170425-JK17	WG-160900764-20171017-JK16
Water Type			Raw	Raw	Raw	Raw	Raw	Raw	Raw	Raw	Raw
Sample Tap			Outside (Back house)	Outside (Back house)	Outside (Back house)	Outside (Back house)	Outside (Back house)	Outside (Back house)	Outside (Back house)	Outside (Back house)	Outside (Back house)
Treatment Type			None	None	None	None	None	None	None	None	None
Sampling Company			STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC
Laboratory			MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX
Laboratory Work Order			B4D8040	B4I8196	B4L2726	B561586	B5K2703	B671945	B6N7539	B783174	B7N0778
Laboratory Sample ID			WY7358	XX8294	YK4122	ABP510	BCM871	CEE707	DJI435	EGU903	FIX856
Filtered	Units	ODWS	Lab Filtered Metals	Total Metals	Total Metals	Total Metals	Total Metals	Total Metals	Total Metals	Total Metals	Total Metals
General Chemistry											
Acidity	mg/L	n/v	20	12	36	23	42	56	32	46	30
Alkalinity, Bicarbonate (as CaCO3)	mg/L	n/v	300	310	320	320	300	330	300	330	310
Alkalinity, Carbonate (as CaCO3)	mg/L	n/v	2.1	1.8	2.1	1.7	1.1	1.4	1.9	1.9	1.6
Alkalinity, Total (as CaCO3)	mg/L	30-500[E]	300	310	320	320	300	340	300	330	310
Ammonia (as N)	mg/L	n/v	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Anion Sum	me/L	n/v	8.18	8.45	8.48	8.10	8.27	8.55	8.04	8.27	8.39
Cation Sum	me/L	n/v	8.28	8.48	8.71	7.97	8.54	8.84	7.89	8.28	8.22
Chloride	mg/L	250[D]	17	21	21	14	20	17	17	14	19
Cyanide (Free)	µg/L	200[B]	<2	<2	<2	<2	<2	<2	<1	<1	<1
Dissolved Organic Carbon (DOC)	mg/L	5[D]	1.1	1.2	1.1	1.2	1.1	1.2	1.0	1.2	0.76
Electrical Conductivity, Lab	µmhos/cm	n/v	750	790	790	770	770	790	770	800	750
Fluoride	mg/L	1.5_b[B]	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Hardness (as CaCO3)	mg/L	80-100[E]	390[E]	400[E]	410[E]	380[E]	400[E]	410[E]	370[E]	380[E]	380[E]
Ion Balance	%	n/v	0.630	0.210	1.33	0.800	1.58	1.66	0.920	0.0900	1.01
Langelier Index (at 20 C)	none	n/v	0.961	0.882	0.979	0.845	0.684	0.807	0.889	0.906	0.838
Langelier Index (at 4 C)	none	n/v	0.713	0.634	0.731	0.597	0.436	0.559	0.641	0.658	0.589
Nitrate (as N)	mg/L	10.0_d[B]	8.33	8.54	8.48	7.10	8.54	6.62	6.96	6.39	8.06
Nitrate + Nitrite (as N)	mg/L	10.0_d[B]	8.33	8.54	8.48	7.10	8.54	6.62	6.96	6.39	8.06
Nitrite (as N)	mg/L	1.0_d[B]	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Orthophosphate(as P)	mg/L	n/v	<0.010	<0.010	0.011	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
pH	S.U.	6.5-8.5[E]	7.87	7.78	7.86	7.74	7.58	7.66	7.83	7.79	7.75
Saturation pH (at 20 C)	none	n/v	6.91	6.90	6.88	6.90	6.90	6.85	6.94	6.89	6.91
Saturation pH (at 4 C)	none	n/v	7.16	7.15	7.12	7.15	7.15	7.10	7.19	7.14	7.16
Sulfate	mg/L	500_n[D]	50	49	45	37	49	42	52	39	52
Total Dissolved Solids	mg/L	500[D]	486	442	458	468	478	472	440	482	450
Total Organic Carbon	mg/L	n/v	1.2	1.1	1.1	1.1	1.1	1.2	1.0	1.1	1.2
Total Suspended Solids	mg/L	n/v	<10	<10	<10	<10	<10	<10	<10	<10	<10
Turbidity, Lab	NTU	5_i[D, E]	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.1	<0.1	<0.1
Metals											
Aluminum	µg/L	100[E]	19	<5.0	<5.0	<5	<5.0	<5.0	<5	<5.0	<5
Antimony	µg/L	6[C]	<0.50	<0.50	<0.50	<0.5	<0.5	<0.50	<0.5	<0.50	<0.5
Arsenic	µg/L	25[C]	<1.0	<1.0	<1.0	<1	<1	<1.0	<1	<1.0	<1
Barium	µg/L	1,000[B]	110	110	110	110	120	120	100	110	110
Beryllium	µg/L	n/v	<0.50	<0.50	<0.50	<0.5	<0.5	<0.50	<0.5	<0.50	<0.5
Boron	µg/L	5,000[C]	12	<10	13	12	11	18	12	11	15
Cadmium	µg/L	5[B]	<0.10	<0.10	<0.10	<0.1	<0.1	<0.10	<0.1	<0.10	<0.1
Calcium	µg/L	n/v	120,000	120,000	120,000	110,000	120,000	120,000	110,000	110,000	110,000
Chromium	µg/L	50[B]	<5.0	<5.0	<5.0	<5	<5.0	<5.0	<5	<5.0	<5
Chromium (Hexavalent)	µg/L	n/v	0.81	2.1	0.81	0.72	1.7	1.7	0.87	0.78	<2.5
Cobalt	µg/L	n/v	<0.50	<0.50	<0.50	<0.5	<0.5	<0.50	<0.5	<0.50	<0.5
Copper	µg/L	1,000[D]	17	8.6	5.1	4.7	13	13	6.3	13	6.4
Iron	µg/L	300[D]	<100	<100	<100	<100	<100	<100	<100	<100	<100
Lead	µg/L	10_c[B]	0.57	1.2	0.60	<0.5	1.3	0.92	0.72	0.90	1.1
Magnesium	µg/L	n/v	23,000	26,000	26,000	23,000	24,000	24,000	25,000	23,000	24,000
Manganese	µg/L	50[D]	<2.0	<2.0	<2.0	<2	<2	3	<2	<2.0	<2
Mercury	µg/L	1[B]	<0.10	<0.10	<0.10	<0.1	<0.1	<0.10	<0.1	<0.1	<0.1
Molybdenum	µg/L	n/v	<0.50	<0.50	<0.50	<0.5	<0.5	<0.50	<0.5	<0.50	<0.5
Nickel	µg/L	n/v	<1.0	<1.0	<1.0	5.4	<1	<1.0	<1	<1.0	<1
Phosphorus	µg/L	n/v	<100	<100	<100	<100	<100	<100	<100	<100	<100
Potassium	µg/L	n/v	10,000	6,300	6,100	8,100	8,400	9,400	6,500	9,400	9,300
Selenium	µg/L	50[B]	<2.0	<2.0	<2.0	<2	<2	<2.0	<2	<2.0	<2
Silicon	µg/L	n/v	8,700	8,800	9,100	7,600	8,400	8,100	8,300	7,700	8,400
Silver	µg/L	n/v	<0.10	<0.10	0.40	<0.1	<0.1	<0.10	<0.1	<0.10	<0.1
Sodium	µg/L	$200,000_g$[D] $20,000_g$[F]	5,300	8,500	10,000	5,300	7,500	11,000	5,500	10,000	9,300
Strontium	µg/L	n/v	280	320	300	290	300	320	280	270	290
Thallium	µg/L	n/v	<0.050	<0.050	<0.050	<0.05	<0.05	<0.05	<0.05	<0.050	<0.05
Titanium	µg/L	n/v	<5.0	<5.0	<5.0	<5	<5.0	<5.0	<5	<5.0	<5
Uranium	µg/L	20[B]	1.0	1.1	1.1	0.98	1.1	1.2	1.1	1.2	1.1
Vanadium	µg/L	n/v	<0.50	<0.50	<0.50	<0.5	<0.5	<0.50	<0.5	<0.50	<0.5
Zinc	µg/L	5,000[D]	120	150	72	76	130	66	77	110	140
Zirconium	µg/L	n/v	<1.0	<1.0	<1.0	<1	<1	<1.0	<1	<1.0	<1
Microbiological Analysis											
Escherichia coli (E.Coli)	cfu/100mL	0[A]	-	0	0	0	0	0	3[A]	0	0
Total Coliform Background	cfu/100mL	n/v	-	0	0	68	0	0	710	0	0
Total Coliforms	cfu/100mL	0[A]	-	0	0	5[A]	0	0	53[A]	0	0
BTEX and Petroleum Hydrocarbons											
Benzene	µg/L	1[B]	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Toluene	µg/L	60[B] 24[D]	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Ethylbenzene	µg/L	140[B] 1.6[D]	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Xylene, m & p-	µg/L	300_{sl}[D]	<0.20	<0.20	<0.20	<0.20	<0.20	<0.40	<0.40	<0.20	<0.20
Xylene, o-	µg/L	300_{sl}[D]	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Xylenes, Total	µg/L	90[B] 20[D]	<0.20	<0.20	<0.20	<0.20	<0.20	<0.40	<0.40	<0.20	<0.20
PHC F1 (C6-C10 range)	µg/L	n/v	<25	<25	<25	<25	<25	<25	<25	<25	<25
PHC F1 (C6-C10 range) minus BTEX	µg/L	n/v	<25	<25	<25	<25	<25	<25	<25	<25	<25
PHC F2 (>C10-C16 range)	µg/L	n/v	<100	<100	<100	<100	<100	<100	<100	<100	<100
PHC F3 (>C16-C34 range)	µg/L	n/v	<200	<200	<200	<200	<200	<200	<200	<200	<200
PHC F4 (>C34-C50 range)	µg/L	n/v	<200	<200	<200	<200	<200	<200	<200	<200	<200
Chromatogram to baseline at C50	none	n/v	YES	YES	YES	YES	YES	YES	YES	YES	YES
Polychlorinated Biphenyls											
Aroclor 1242	µg/L	n/v	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Aroclor 1248	µg/L	n/v	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Aroclor 1254	µg/L	n/v	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Aroclor 1260	µg/L	n/v	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Polychlorinated Biphenyls (PCBs)	µg/L	3[C]	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05

See notes on last page

Table 8
Summary of Groundwater Analytical Results - Private Wells
Clarington Tranformer Station
Hydro One Networks Inc.

Aquifer Unit			Other/Unconfirmed								
Sample Date			31-Jul-14	8-Oct-14	11-Nov-14	8-Apr-15	5-Oct-15	11-Apr-16	1-Nov-16	25-Apr-17	17-Oct-17
Sample ID			WG-160900764-20140731-JK4	WG-160900764-20141008-AD23	WG-160900764-20141111-AD02	WG-160900764-20150408-AD03	WG-160900764-20151005-JK6	WG-160900764-20160411-JK2	WG-160900764-20161101-JK9	WG-160900764-20170425-JK17	WG-160900764-20171017-JK16
Water Type			Raw	Raw	Raw	Raw	Raw	Raw	Raw	Raw	Raw
Sample Tap			Outside (Back house)	Outside (Back house)	Outside (Back house)	Outside (Back house)	Outside (Back house)	Outside (Back house)	Outside (Back house)	Outside (Back house)	Outside (Back house)
Treatment Type			None	None	None	None	None	None	None	None	None
Sampling Company			STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC
Laboratory			MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX
Laboratory Work Order			B4D8040	B4I8196	B4L2726	B561586	B5K2703	B671945	B6N7539	B783174	B7N0778
Laboratory Sample ID			WY7358	XX8294	YK4122	ABP510	BCM871	CEE707	DJI435	EGU903	FIX856
Filtered	Units	ODWS	Lab Filtered Metals	Total Metals	Total Metals	Total Metals	Total Metals	Total Metals	Total Metals	Total Metals	Total Metals
Semi-Volatile Organic Compounds											
Acenaphthene	µg/L	n/v	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<1
Acenaphthylene	µg/L	n/v	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<1
Anthracene	µg/L	n/v	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.3
Benzo(a)anthracene	µg/L	n/v	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.3
Benzo(a)pyrene	µg/L	0.01[B]	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	***<0.05***
Benzo(b/j)fluoranthene	µg/L	n/v	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.3
Benzo(g,h,i)perylene	µg/L	n/v	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.3
Benzo(k)fluoranthene	µg/L	n/v	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.3
Biphenyl, 1,1'- (Biphenyl)	µg/L	n/v	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.5
Bis(2-Chloroethyl)ether	µg/L	n/v	<0.5	<0.5	<4 MI	<0.5	<0.5	<0.5	<0.5	<0.5	<3
Bis(2-Chloroisopropyl)ether	µg/L	n/v	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<3
Bis(2-Ethylhexyl)phthalate (DEHP)	µg/L	n/v	<1	<1	<1	<1	<1	<1	<1	<1	<5
Chloroaniline, 4-	µg/L	n/v	<1	<1	<1	<1	<1	<1	<1	<1	<5
Chlorophenol, 2- (ortho-Chlorophenol)	µg/L	n/v	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.5
Chrysene	µg/L	n/v	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.3
Dibenzo(a,h)anthracene	µg/L	n/v	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.5
Dichlorobenzidine, 3,3'-	µg/L	n/v	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<3
Dichlorophenol, 2,4-	µg/L	900[B] 0.3$_f$[D]	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	***<0.5***
Diethyl Phthalate	µg/L	n/v	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.1	<0.5
Dimethyl Phthalate	µg/L	n/v	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.5
Dimethylphenol, 2,4-	µg/L	n/v	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<3
Dinitrophenol, 2,4-	µg/L	n/v	<2	<2	<2	<2	<2	<2	<2	<2	<10
Dinitrotoluene, 2,4-	µg/L	n/v	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<1
Dinitrotoluene, 2,6-	µg/L	n/v	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<1
Fluoranthene	µg/L	n/v	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<1
Fluorene	µg/L	n/v	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<1
Indeno(1,2,3-cd)pyrene	µg/L	n/v	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.5
Methylnaphthalene (Total)	µg/L	n/v	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<1.4
Methylnaphthalene, 1-	µg/L	n/v	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<1
Methylnaphthalene, 2-	µg/L	n/v	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<1
Naphthalene	µg/L	n/v	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<1
Pentachlorophenol	µg/L	60[B] 30$_f$[D]	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.5
Phenanthrene	µg/L	n/v	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.5
Phenol	µg/L	n/v	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<3
Pyrene	µg/L	n/v	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.3
Trichlorobenzene, 1,2,4-	µg/L	n/v	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.5
Trichlorophenol, 2,4,5-	µg/L	n/v	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<1
Trichlorophenol, 2,4,6-	µg/L	5[B] 2$_f$[D]	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<1
Volatile Organic Compounds											
Acetone	µg/L	n/v	<10	<10	<10	<10	<10	<10	<10	<10	<10
Bromodichloromethane	µg/L	n/v	<0.50	3.9	2.5	<0.50	5.2	3.0	<0.50	<0.50	3.8
Bromoform (Tribromomethane)	µg/L	n/v	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromomethane (Methyl bromide)	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Carbon Tetrachloride (Tetrachloromethane)	µg/L	2[B]	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Chlorobenzene (Monochlorobenzene)	µg/L	80[B] 30$_f$[D]	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Chloroform (Trichloromethane)	µg/L	n/v	<0.20	13	5.5	0.21	14	6.6	<0.20	0.35	11
Dibromochloromethane	µg/L	n/v	<0.50	1.8	1.3	<0.50	2.3	1.3	<0.50	<0.50	2.1
Dichlorobenzene, 1,2-	µg/L	200[B] 3$_f$[D]	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Dichlorobenzene, 1,3-	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Dichlorobenzene, 1,4-	µg/L	5[B] 1$_f$[D]	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Dichlorodifluoromethane (Freon 12)	µg/L	n/v	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Dichloroethane, 1,1-	µg/L	n/v	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Dichloroethane, 1,2-	µg/L	5[C]	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Dichloroethene, 1,1-	µg/L	14[B]	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Dichloroethene, cis-1,2-	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Dichloroethene, trans-1,2-	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Dichloropropane, 1,2-	µg/L	n/v	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Dichloropropene, 1,3- (sum of isomers cis + trans)	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Dichloropropene, cis-1,3-	µg/L	n/v	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
Dichloropropene, trans-1,3-	µg/L	n/v	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40
Ethylene Dibromide (Dibromoethane, 1,2-)	µg/L	n/v	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Hexane (n-Hexane)	µg/L	n/v	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Methyl Ethyl Ketone (MEK) (2-Butanone)	µg/L	n/v	<10	<10	<10	<10	<10	<10	<10	<10	<10
Methyl Isobutyl Ketone (MIBK)	µg/L	n/v	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Methyl tert-butyl ether (MTBE)	µg/L	15[D]	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Methylene Chloride (Dichloromethane)	µg/L	50[B]	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Styrene	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Tetrachloroethane, 1,1,1,2-	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Tetrachloroethane, 1,1,2,2-	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Tetrachloroethene (PCE)	µg/L	10[B]	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Trichloroethane, 1,1,1-	µg/L	n/v	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Trichloroethane, 1,1,2-	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Trichloroethene (TCE)	µg/L	5[B]	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Trichlorofluoromethane (Freon 11)	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Trihalomethanes	µg/L	100$_e$[B]	<0.20	18.7	9.3	<1	<1.0	10.9	<1.0	0.35	16.9
Vinyl Chloride	µg/L	1[B]	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20

Notes:

ODWS	Technical Support Document for Ontario Drinking Water Standards, Objectives and Guidelines (MOE, 2006, revised July 2017)
A	ODWS Table 1 - Microbiological Standards, Maximum Acceptable Concentration
B	ODWS Table 2 - Chemical Standards, Maximum Acceptable Concentration
C	ODWS Table 2 - Chemical Standards, Interim Maximum Acceptable Concentration
D	ODWS Table 4 - Chemical/Physical Objectives and Guidelines, Aesthetic Objectives
E	ODWS Table 4 - Chemical/Physical Objectives and Guidelines, Operational Guidelines
F	ODWS Table 4 - Medical Officer of Health Reporting Limit
6.5[A]	Concentration exceeds the indicated standard.
15.2	Measured concentration did not exceed the indicated standard.
< 0.50	Laboratory reporting limit was greater than the applicable standard.
< 0.03	Analyte was not detected at a concentration greater than the laboratory reporting limit.
n/v	No standard/guideline value.
-	Parameter not analyzed / not available.
b	Where fluoride is added to drinking water, it is recommended that the concentration be adjusted to 0.5 - 0.8 mg/L the optimum level for control of tooth decay. Where supplies contain naturally occurring fluoride at levels higher than 1.5 mg/L but lower than 2.4 mg/L the Ministry of Health and Long Term Care recommends an approach through local boards of health to raise public and professional awareness to control excessive exposure to fluoride from other sources.
c	This standard applies to water at the point of consumption. Since lead is a component in some plumbing systems, first flush water may contain higher concentrations of lead than water that has been flushed for five minutes.
d	Where both nitrate and nitrite are present, the total of the two should not exceed 10 mg/L (as nitrogen).
e	The standard is expressed as a running annual average of quarterly samples measured at a point reflecting the maximum residence time in the distribution system.
f	Refer to ODWS Table 2 for health related standard
g	The aesthetic objective for sodium in drinking water is 200 mg/L. The local Medical Officer of Health should be notified when the sodium concentration exceeds 20 mg/L so that this information may be communicated to local physicians for their use with patients on sodium restricted diets.
h	When sulfate levels exceed 500 mg/L, water may have a laxative effect on some people.
i	Applicable for all waters at the point of consumption.
j	The operational guidelines for filtration processes are provided as performance criteria in the Procedure for Disinfection of Drinking Water in Ontario.
s1	Standard is applicable to total xylenes, and m & p-xylenes and o-xylenes should be summed for comparison.
BO	Values reported may be biased low due to overgrowth
MI	Detection limit was raised due to matrix interferences.
NC	Not calculated.
VX	Result reported was mainly due to one non-hydrocarbon compound eluted inside F1 range.
NDOGN	No data due to Over Growth for Non-Target organisms.
NDOGT	No data due to overgrowth.