Summary of Groundwater Analytical Results - Monitoring Wells
Clarington Tranformer Station
Hydro One Networks Inc.

Sample Location				MW1-13-D												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	20-Nov-14	20-Nov-14	26-Nov-14	26-Nov-14	8-Apr-15	8-Apr-15	13-Dec-13	19-Mar-14	7-May-14	15-Aug-14
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	CLARS1213TWG-160960745-20131213-JK1	MW1-13-S	MW1-13-S	MW1-13-S
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	B3L6734	B443695	B475182	B4E7727
Laboratory Sample ID				UH4002	VG2316	VV0843	XD5198	XV9682	YO3446	YO3564	YO3447	YO3565	YP9573	YP9574	ABP947	ABP948	UH4001	VG2315	VV0844	XD5197
Filtered				Lab Filtered Metals	Lab Filtered Metals	Lab Filtered Metals	Lab Filtered Metals	Lab Filtered Metals	-	-	Lab Filtered	Lab Filtered	Field Filtered Metals	Filtered	Field Filtered Metals	Lab Filtered	Lab Filtered Metals	Lab Filtered Metals	Lab Filtered Metals	Lab Filtered Metals
Sample Type	Units	ODWS	Ontario SCS							Field Duplicate		Field Duplicate								
General Chemistry																				
Acidity	mg/L	n/v	n/v	-	< 10	< 10	< 10	< 10	-	-	-	-	-	-	<10	-	-	26	14	15
Alkalinity, Bicarbonate (as CaCO3)	mg/L	n/v	n/v	220	200	180	180	190	-	-	-	-	180	-	180	-	180	180	190	190
Alkalinity, Carbonate (as CaCO3)	mg/L	n/v	n/v	1.5	2.2	2.9	2.5	2.6	-	-	-	-	2.6	-	2.1	-	1.2	1.3	1.8	1.6
Alkalinity, Total (as CaCO3)	mg/L	30-500[E]	n/v	220	200	190	180	190	-	-	-	-	190	-	190	-	180	180	190	190
Ammonia (as N)	mg/L	n/v	n/v	0.26	1.2	0.20	0.18	0.17	-	-	-	-	0.097	-	0.073	-	0.37	0.13	0.91	0.72
Anion Sum	meq/L	n/v	n/v	5.88	4.91	4.63	4.59	4.87	-	-	-	-	4.70	-	4.59	-	7.36	7.11	7.48	7.28
Cation Sum	meq/L	n/v	n/v	5.83	4.33	55.6	4.44	4.47	-	-	-	-	4.75	-	4.59	-	7.46	6.85	10.6	7.29
Chloride	mg/L	250[D]	790[GH]	20	14	13	14	15	-	-	-	-	15	-	13	-	37	25	25	25
Cyanide (Free)	µg/L	200[B]	52[GH]	-	< 2	< 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	-	2.8	1.2	1.4	1.2
Electrical Conductivity, Lab	µmhos/cm	n/v	n/a[GH]	570	420	400	420	420	-	-	-	-	430	-	420	-	740	700	720	710
Fluoride	mg/L	1.5_h[B]	n/v	-	0.29	0.32	0.28	0.27	-	-	-	-	-	-	0.32	-	-	0.16	0.14	0.17
Hardness (as CaCO3)	mg/L	80-100[E]	n/v	**260[E]**	**190[E]**	**2700[E]**	**190[E]**	**200[E]**	-	-	-	-	**210[E]**	-	**200[E]**	-	**330[E]**	**320[E]**	**490[E]**	**340[E]**
Ion Balance	%	n/v	n/v	0.400	6.30	84.6	1.72	4.31	-	-	-	-	0.520	-	0.0400	-	0.670	1.90	17.3	0.0300
Langelier Index (at 20 C)	none	n/v	n/v	0.642	0.357	2.08	0.410	0.411	-	-	-	-	0.458	-	0.373	-	0.588	0.597	0.980	0.693
Langelier Index (at 4 C)	none	n/v	n/v	0.393	0.107	1.83	0.161	0.162	-	-	-	-	0.208	-	0.123	-	0.339	0.348	0.732	0.445
Nitrate (as N)	mg/L	10.0_d[B]	n/v	3.18	< 0.10	< 0.10	< 0.10	< 0.10	-	-	-	-	< 0.10	-	<0.1	-	5.59	**12.8[B]**	**16.1[B]**	**11.0[B]**
Nitrate + Nitrite (as N)	mg/L	10.0_d[B]	n/v	3.18	< 0.10	< 0.10	< 0.10	< 0.10	-	-	-	-	< 0.10	-	<0.1	-	5.62	**12.8[B]**	**16.1[B]**	**11.5[B]**
Nitrite (as N)	mg/L	1.0_d[B]	n/v	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	-	-	-	-	< 0.010	-	0.013	-	0.027	0.033	< 0.010	0.511
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	< 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	-	7.84	7.89	8.00	7.97
Saturation pH (at 20 C)	none	n/v	n/v	7.23	7.71	6.14	7.76	7.74	-	-	-	-	7.71	-	7.71	-	7.25	7.29	7.02	7.28
Saturation pH (at 4 C)	none	n/v	n/v	7.48	7.96	6.39	8.01	7.99	-	-	-	-	7.96	-	7.96	-	7.50	7.54	7.27	7.52
Sulfate	mg/L	500_h[D]	n/v	35	24	26	28	28	-	-	-	-	26	-	24	-	110	90	87	95
Total Dissolved Solids	mg/L	500[D]	n/v	-	308	294	292	392	-	-	-	-	-	-	218	-	-	416	454	**534[D]**
Total Dissolved Solids (Calculated)	mg/L	500[D]	n/v	-	-	-	-	-	-	-	-	-	250	-	250	-	-	-	-	-
Total Organic Carbon	mg/L	n/v	n/v	-	1.8	4.1	2.4	1.4	-	-	-	-	-	-	0.85	-	-	1.5	2.7	2.5
Total Suspended Solids	mg/L	n/v	n/v	-	610	5000	1500	820	290	210	-	-	44	-	240	-	-	1800	400	230
Turbidity, Lab	ntu	5_{L}[D E]	n/v	-	**220[D]**	**1100[D]**	**710[D]**	**480[D]**	**37[D]**	**46[D]**	-	-	**65[D]**	-	**68[D]**	-	-	**100[D]**	**120[D]**	**76[D]**
BTEX and Petroleum Hydrocarbons																				
Benzene	µg/L	5[B]	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	< 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	-	1.0	< 0.20	< 0.20	< 0.20
Ethylbenzene	µg/L	2.4[D]	2.4[GH]	< 0.20	< 0.20	< 0.20	< 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]	$_{s1}$[GH]	0.81	< 0.23 IB	< 0.20	0.22	< 0.40	< 0.20	< 0.20	-	-	< 0.20	-	<0.2	-	1.2	< 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	-	<0.2	-	0.49	< 0.20	< 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	-	1.7	< 0.20	< 0.20	< 0.20
PHC F1 (C6-C10 range)	µg/L	n/v	420_{s7}[G] 420_{s7}[H]	< 25	< 25	< 25	< 25	< 25	-	-	-	-	-	-	<25	-	< 25	< 25	< 25	< 25
PHC F1 (C6-C10 range) minus BTEX	µg/L	n/v	420_{s7}[G] 420_{s7}[H]	< 25	< 25	< 25	< 25	< 25	-	-	-	-	-	-	<25	-	< 25	< 25	< 25	< 25
PHC F2 (>C10-C16 range)	µg/L	n/v	150_{s15}[G] 150_{s15}[H]	< 100	< 100	< 100	< 100	< 100	-	-	-	-	-	-	<100	-	< 100	< 100	< 100	< 100
PHC F3 (>C16-C34 range)	µg/L	n/v	500_{s8}[G] 500_{s8}[H]	< 200	< 200	< 200	< 200	< 200	-	-	-	-	-	-	<200	-	< 200	< 200	< 200	< 200
PHC F4 (>C34-C50 range)	µg/L	n/v	500_{s10}[G] 500_{s10}[H]	< 200	< 200	< 200	< 200	< 200	-	-	-	-	-	-	<200	-	< 200	< 200	< 200	< 200
Chromatogram to baseline at nC50	none	n/v	n/v	YES	YES	YES	YES	YES	-	-	-	-	-	-	YES	-	YES	YES	YES	YES

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Sample Location				MW1-13-D												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	20-Nov-14	20-Nov-14	26-Nov-14	26-Nov-14	8-Apr-15	8-Apr-15	13-Dec-13	19-Mar-14	7-May-14	15-Aug-14
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	CLARS1213TWG-160960745-20131213-JK1	MW1-13-S	MW1-13-S	MW1-13-S
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	B3L6734	B443695	B475182	B4E7727
Laboratory Sample ID				UH4002	VG2316	VV0843	XD5198	XV9682	YO3446	YO3564	YO3447	YO3565	YP9573	YP9574	ABP947	ABP948	UH4001	VG2315	VV0844	XD5197
Filtered				Lab Filtered Metals	Lab Filtered Metals	Lab Filtered Metals	Lab Filtered Metals	Lab Filtered Metals	-	-	Lab Filtered	Lab Filtered	Field Filtered Metals	Filtered	Field Filtered Metals	Lab Filtered	Lab Filtered Metals	Lab Filtered Metals	Lab Filtered Metals	Lab Filtered Metals
Sample Type	Units	ODWS	Ontario SCS							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	7.0	-	< 5.0
Antimony	µg/L	6[C]	6[GH]	< 0.50	< 0.50	-	< 0.50	< 0.50	-	-	-	-	< 0.50	< 0.50	<0.5	-	< 0.50	< 0.50	-	< 0.50
Arsenic	µg/L	25[C]	25[GH]	< 1.0	1.2	-	1.1	< 1.0	-	-	-	-	1.4	1.1	1	-	< 1.0	< 1.0	-	< 1.0
Barium	µg/L	1000[B]	1000[GH]	110	96	-	84	100	-	-	-	-	110	100	100	-	110	59	-	63
Beryllium	µg/L	n/v	4[GH]	< 0.50	< 0.50	-	< 0.50	< 0.50	-	-	-	-	< 0.50	< 0.50	<0.5	-	< 0.50	< 0.50	-	< 0.50
Boron	µg/L	5000[C]	5000[GH]	38	32	-	34	32	-	-	-	-	38	33	32	-	76	38	-	59
Cadmium	µg/L	5[B]	2.1[GH]	< 0.10	< 0.10	-	< 0.10	< 0.10	-	-	-	-	< 0.10	< 0.10	<0.1	-	< 0.10	< 0.10	-	< 0.10
Calcium	µg/L	n/v	n/v	71000	25000	-	25000	26000	-	-	-	-	26000	26000	26000	-	87000	80000	-	85000
Cesium	µg/L	n/v	n/v	< 0.20	-	-	-	-	-	-	-	-	-	-	-	-	< 0.20	-	-	-
Chromium (Hexavalent)	µg/L	n/v	25[GH]	-	< 0.50	< 0.50	< 0.50	< 0.50	-	-	-	-	-	-	<0.5	-	-	< 0.50	< 0.50	< 5.0
Chromium (Total)	µg/L	50[B]	50[GH]	< 5.0	< 5.0	-	< 5.0	< 5.0	-	-	-	-	< 5.0	< 5.0	<5	-	< 5.0	< 5.0	-	< 5.0
Cobalt	µg/L	n/v	3.8[GH]	< 0.50	< 0.50	-	< 0.50	< 0.50	-	-	-	-	< 0.50	< 0.50	<0.5	-	0.85	< 0.50	-	< 0.50
Copper	µg/L	1000[D]	69[GH]	< 1.0	< 1.0	-	< 1.0	< 1.0	-	-	-	-	< 1.0	< 1.0	<1	-	< 1.0	< 1.0	-	< 1.0
Iron	µg/L	300[D]	n/v	< 100	< 100	-	< 100	< 100	-	-	-	-	250	< 100	220	-	< 100	< 100	-	< 100
Lead	µg/L	10_e[B]	10[GH]	< 0.50	< 0.50	-	< 0.50	< 0.50	-	-	-	-	< 0.50	< 0.50	<0.5	-	< 0.50	< 0.50	-	< 0.50
Magnesium	µg/L	n/v	n/v	20000	30000	-	32000	32000	-	-	-	-	34000	34000	33000	-	27000	29000	-	31000
Manganese	µg/L	50[D]	n/v	5.8	4.6	-	3.5	3.2	-	-	-	-	6.6	6.1	6.5	-	35	16	-	14
Mercury	µg/L	1[B]	0.1[G] 0.29[H]	-	< 0.1	< 0.1	< 0.10	< 0.1	-	-	-	-	-	-	<0.1	-	-	< 0.1	< 0.1	< 0.10
Molybdenum	µg/L	n/v	70[GH]	10	2.2	-	2.0	2.1	-	-	-	-	1.8	1.7	1.9	-	13	9.1	-	15
Nickel	µg/L	n/v	100[GH]	< 1.0	< 1.0	-	< 1.0	< 1.0	-	-	-	-	< 1.0	< 1.0	<1	-	< 1.0	< 1.0	-	< 1.0
Phosphorus	µg/L	n/v	n/v	< 100	< 100	-	< 100	< 100	-	-	-	-	< 100	< 100	<100	-	< 100	< 100	-	< 100
Potassium	µg/L	n/v	n/v	6400	2800	-	2700	2500	-	-	-	-	2700	2700	2700	-	12000	5500	-	6200
Rubidium	µg/L	n/v	n/v	2.5	-	-	-	-	-	-	-	-	-	-	-	-	6.9	-	-	-
Selenium	µg/L	10[B]	10[GH]	< 2.0	< 2.0	-	< 2.0	< 2.0	-	-	-	-	< 2.0	< 2.0	<2	-	< 2.0	< 2.0	-	< 2.0
Silicon	µg/L	n/v	n/v	6200	10000	-	10000	11000	-	-	-	-	11000	11000	11000	-	6900	6000	-	6800
Silver	µg/L	n/v	1.2[GH]	< 0.10	< 0.10	-	< 0.10	< 0.10	-	-	-	-	< 0.10	< 0.10	<0.1	-	< 0.10	< 0.10	-	< 0.10
Sodium	µg/L	200000$_g$[D] 20000$_g$[F]	490000[GH]	9200	11000	-	12000	10000	-	-	-	-	12000	11000	12000	-	13000	6800	-	7100
Strontium	µg/L	n/v	n/v	470	570	-	580	590	-	-	-	-	640	640	600	-	420	370	-	400
Thallium	µg/L	n/v	2[GH]	< 0.050	< 0.050	-	< 0.050	< 0.050	-	-	-	-	< 0.050	< 0.050	<0.05	-	< 0.050	< 0.050	-	< 0.050
Titanium	µg/L	n/v	n/v	< 5.0	< 5.0	-	< 5.0	< 5.0	-	-	-	-	< 5.0	< 5.0	<5	-	< 5.0	< 5.0	-	< 5.0
Uranium	µg/L	20[B]	20[GH]	0.92	0.17	-	0.41	0.19	-	-	-	-	< 0.10	< 0.10	<0.1	-	3.6	3.1	-	3.0
Vanadium	µg/L	n/v	6.2[GH]	0.94	< 0.50	-	0.87	0.55	-	-	-	-	< 0.50	< 0.50	<0.5	-	0.75	< 0.50	-	< 0.50
Zinc	µg/L	5000[D]	890[GH]	< 5.0	< 5.0	-	< 5.0	< 5.0	-	-	-	-	< 5.0	< 5.0	<5	-	< 5.0	< 5.0	-	< 5.0
Zirconium	µg/L	n/v	n/v	< 1.0	-	-	-	< 1.0	-	-	-	-	< 1.0	< 1.0	<1	-	< 1.0	-	-	-
Polychlorinated Biphenyls																				
Aroclor 1242	µg/L	n/v	0.2_{s14}[G] 0.2_{s14}[H]	-	< 0.05	< 0.05	< 0.05	< 0.05	-	-	-	-	-	-	<0.05	-	-	< 0.05	< 0.05	< 0.05
Aroclor 1248	µg/L	n/v	0.2_{s14}[G] 0.2_{s14}[H]	-	< 0.05	< 0.05	< 0.05	< 0.05	-	-	-	-	-	-	<0.05	-	-	< 0.05	< 0.05	< 0.05
Aroclor 1254	µg/L	n/v	0.2_{s14}[G] 0.2_{s14}[H]	-	< 0.05	< 0.05	< 0.05	< 0.05	-	-	-	-	-	-	<0.05	-	-	< 0.05	< 0.05	< 0.05
Aroclor 1260	µg/L	n/v	0.2_{s14}[G] 0.2_{s14}[H]	-	< 0.05	< 0.05	< 0.05	< 0.05	-	-	-	-	-	-	<0.05	-	-	< 0.05	< 0.05	< 0.05
Polychlorinated Biphenyls (PCBs)	µg/L	3[C]	0.2_{s14}[G] 0.2_{s14}[H]	-	< 0.05	< 0.05	< 0.05	< 0.05	-	-	-	-	-	-	<0.05	-	-	< 0.05	< 0.05	< 0.05

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Sample Location				MW1-13-D												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	20-Nov-14	20-Nov-14	26-Nov-14	26-Nov-14	8-Apr-15	8-Apr-15	13-Dec-13	19-Mar-14	7-May-14	15-Aug-14
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	CLARS1213TWG-160960745-20131213-JK1	MW1-13-S	MW1-13-S	MW1-13-S
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	B3L6734	B443695	B475182	B4E7727
Laboratory Sample ID				UH4002	VG2316	VV0843	XD5198	XV9682	YO3446	YO3564	YO3447	YO3565	YP9573	YP9574	ABP947	ABP948	UH4001	VG2315	VV0844	XD5197
Filtered				Lab Filtered Metals	Lab Filtered Metals	Lab Filtered Metals	Lab Filtered Metals	Lab Filtered Metals	-	-	Lab Filtered	Lab Filtered	Field Filtered Metals	Filtered	Field Filtered Metals	Lab Filtered	Lab Filtered Metals	Lab Filtered Metals	Lab Filtered Metals	Lab Filtered Metals
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^{GH}	-	**41^{GH}**	1	4	4	2	< 1	< 1	< 1	< 1	< 1	<1	<1	-	**17^{GH}**	4	2
Diethyl Phthalate	µg/L	n/v	30^{GH}	-	0.1	0.1	< 0.1	0.1	0.3	0.1	0.2	< 0.1	< 0.1	< 0.1	<0.1	<0.1	-	< 0.5	0.1	0.1
Dimethyl Phthalate	µg/L	n/v	30^{GH}	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	<0.1	<0.1	-	< 0.5	< 0.1	< 0.1
Polycyclic Aromatic Hydrocarbons																				
Acenaphthene	µg/L	n/v	4.1^{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	< 0.2	< 0.2
Acenaphthylene	µg/L	n/v	1^{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	< 0.2	< 0.2
Anthracene	µg/L	n/v	1^{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	< 0.05	< 0.05
Benzo(a)anthracene	µg/L	n/v	1^{GH}	-	< 0.05	0.06	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	<0.05	<0.05	-	0.3	0.05	< 0.05
Benzo(a)pyrene	µg/L	0.01^{B}	0.01^{GH}	-	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	<0.01	<0.01	-	**0.26^{BGH}**	**0.04^{BGH}**	**0.03^{BGH}**
Benzo(b/j)fluoranthene	µg/L	n/v	$0.1_{t2}{}^{G}$ $0.1_{t2}{}^{H}$	-	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	<0.05	<0.05	-	**0.4^{GH}**	0.06	< 0.05
Benzo(g,h,i)perylene	µg/L	n/v	0.2^{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	-	***< 0.5***	< 0.2 MI	< 0.05
Benzo(k)fluoranthene	µg/L	n/v	0.1^{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***	< 0.05	< 0.05
Chrysene	µg/L	n/v	0.1^{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	-	**0.4^{GH}**	0.06	< 0.05
Dibenzo(a,h)anthracene	µg/L	n/v	0.2^{GH}	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	<0.1	<0.1	-	***< 0.5***	< 0.1	< 0.1
Fluoranthene	µg/L	n/v	0.41^{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***	< 0.2	< 0.2
Fluorene	µg/L	n/v	120^{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	< 0.2	< 0.2
Indeno(1,2,3-cd)pyrene	µg/L	n/v	0.2^{GH}	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	<0.1	<0.1	-	***< 0.5***	< 0.1	< 0.1
Methylnaphthalene (Total)	µg/L	n/v	$3.2_{z3}{}^{G}$ $3.2_{z3}{}^{H}$	-	< 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	< 0.28	< 0.28
Methylnaphthalene, 1-	µg/L	n/v	$_{z3}{}^{GH}$	-	< 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	< 0.2	< 0.2
Methylnaphthalene, 2-	µg/L	n/v	$_{z3}{}^{GH}$	-	< 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	< 0.2	< 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	< 0.2	< 0.2
Phenanthrene	µg/L	n/v	1GH	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	<0.1	<0.1	-	0.6	0.1	< 0.1
Pyrene	µg/L	n/v	4.1^{GH}	-	< 0.05	0.06	0.06	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	<0.05	<0.05	-	0.9	0.14	0.11
Remaining Semi - Volatile Organic Compounds																				
Biphenyl, 1,1'- (Biphenyl)	µg/L	n/v	0.5^{GH}	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	<0.1	<0.1	-	< 0.5	< 0.1	< 0.1
Bis(2-Chloroethyl)ether	µg/L	n/v	5^{GH}	-	< 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	< 0.5	< 0.5
Bis(2-Chloroisopropyl)ether	µg/L	n/v	120^{GH}	-	< 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	< 0.5	< 0.5
Chloroaniline, 4-	µg/L	n/v	10^{GH}	-	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	<1	<1	-	< 5	< 1	< 1
Chlorophenol, 2- (ortho-Chlorophenol)	µg/L	n/v	8.9^{GH}	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	<0.1	<0.1	-	< 0.5	< 0.1	< 0.1
Dichlorobenzidine, 3,3'-	µg/L	n/v	0.5^{GH}	-	< 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***	< 0.5	< 0.5
Dichlorophenol, 2,4-	µg/L	900^{B} $0.3_{f}{}^{D}$	20^{GH}	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	<0.1	<0.1	-	***< 0.5***	< 0.1	< 0.1
Dimethylphenol, 2,4-	µg/L	n/v	59^{GH}	-	< 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	< 0.5	< 0.5
Dinitrophenol, 2,4-	µg/L	n/v	10^{GH}	-	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	<2	<2	-	< 10	< 2	< 2
Dinitrotoluene, 2,4-	µg/L	n/v	$5_{t13}{}^{G}$ $5_{t13}{}^{H}$	-	< 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	< 0.3	< 0.3
Dinitrotoluene, 2,6-	µg/L	n/v	$5_{t13}{}^{G}$ $5_{t13}{}^{H}$	-	< 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	< 0.3	< 0.3
Pentachlorophenol	µg/L	60^{B} $30_{f}{}^{D}$	30^{GH}	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	<0.1	<0.1	-	< 0.5	< 0.1	< 0.1
Phenol	µg/L	n/v	890^{GH}	-	< 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	< 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	< 0.1	< 0.1
Trichlorophenol, 2,4,5-	µg/L	n/v	8.9^{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	< 0.2	< 0.2
Trichlorophenol, 2,4,6-	µg/L	5^{B} $2_{f}{}^{D}$	2^{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	< 0.2	< 0.2

Summary of Groundwater Analytical Results - Monitoring Wells
Clarington Tranformer Station
Hydro One Networks Inc.

Sample Location				MW1-13-D												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	20-Nov-14	20-Nov-14	26-Nov-14	26-Nov-14	8-Apr-15	8-Apr-15	13-Dec-13	19-Mar-14	7-May-14	15-Aug-14
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	CLARS1213TWG-160960745-20131213-JK1	MW1-13-S	MW1-13-S	MW1-13-S
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	B3L6734	B443695	B475182	B4E7727
Laboratory Sample ID				UH4002	VG2316	VV0843	XD5198	XV9682	YO3446	YO3564	YO3447	YO3565	YP9573	YP9574	ABP947	ABP948	UH4001	VG2315	VV0844	XD5197
Filtered				Lab Filtered Metals	Lab Filtered Metals	Lab Filtered Metals	Lab Filtered Metals	Lab Filtered Metals	-	-	Lab Filtered	Lab Filtered	Field Filtered Metals	Filtered	Field Filtered Metals	Lab Filtered	Lab Filtered Metals	Lab Filtered Metals	Lab Filtered Metals	Lab Filtered Metals
Sample Type	Units	ODWS	Ontario SCS							Field Duplicate		Field Duplicate								
Volatile Organic Compounds																				
Acetone	µg/L	n/v	2700[GH]	-	< 10	< 10	< 10	< 10	< 10	< 10	-	-	< 10	-	<10	-	-	< 10	< 10	< 10
Bromodichloromethane	µg/L	n/v	16[GH]	-	< 0.50	< 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	-	-	< 1.0	-	<1	-	-	< 1.0	< 1.0	< 1.0
Bromomethane (Methyl bromide)	µg/L	n/v	0.89[GH]	-	< 0.50	< 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	5[B]	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	< 0.20
Chlorobenzene (Monochlorobenzene)	µg/L	80[B] 30[I,D]	30[GH]	-	< 0.20	< 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	-	-	< 0.20	-	<0.2	-	-	< 0.20	< 0.20	< 0.20
Dibromochloromethane	µg/L	n/v	25[GH]	-	< 0.50	< 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[B] 3[I,D]	3[GH]	-	< 0.50	< 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[GH]	-	< 0.50	< 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[B] 1[I,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	< 0.50
Dichlorodifluoromethane (Freon 12)	µg/L	n/v	590[GH]	-	< 1.0	< 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[GH]	-	< 0.20	< 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[C]	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	< 0.50
Dichloroethene, 1,1-	µg/L	14[B]	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	< 0.20
Dichloroethene, cis-1,2-	µg/L	n/v	1.6[GH]	-	< 0.50	< 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[GH]	-	< 0.50	< 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	-	-	< 0.20	-	<0.2	-	-	< 0.20	< 0.20	< 0.20
Dichloropropene, 1,3- (sum of isomers cis + trans)	µg/L	n/v	0.5[s11,G] 0.5[s11,H]	-	< 0.50	< 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	-	-	< 0.30	-	<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	-	-	< 0.40	-	<0.4	-	-	< 0.40	< 0.40	< 0.40
Ethylene Dibromide (Dibromoethane, 1,2-)	µg/L	n/v	0.2[GH]	-	< 0.20	< 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	-	-	< 1.0	-	<1	-	-	< 1.0	< 1.0	< 1.0
Methyl Ethyl Ketone (MEK)	µg/L	n/v	1800[GH]	-	< 10	< 10	< 10	< 10	< 10	< 10	-	-	< 10	-	<10	-	-	< 10	< 10	< 10
Methyl Isobutyl Ketone (MIBK)	µg/L	n/v	640[GH]	-	< 5.0	< 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[GH]	-	< 0.50	< 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[B]	26[G] 50[H]	-	< 2.0	< 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[GH]	-	< 0.50	< 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[GH]	-	< 0.50	< 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	-	-	< 0.50	-	<0.5	-	-	< 0.50	< 0.50	< 0.50
Tetrachloroethene (PCE)	µg/L	30[B]	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	< 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	< 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	< 0.50
Trichloroethene (TCE)	µg/L	5[B]	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	< 0.20
Trichlorofluoromethane (Freon 11)	µg/L	n/v	150[GH]	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	-	-	< 0.50	-	<0.5	-	-	< 0.50	< 0.50	< 0.50
Vinyl chloride	µg/L	2[B]	0.5[GH]	-	< 0.20	< 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

Summary of Groundwater Analytical Results - Monitoring Wells
Clarington Tranformer Station
Hydro One Networks Inc.

Sample Location				MW1-13-S (Contd.)							MW2-13-D							
Sample Date				1-Oct-14	20-Nov-14	20-Nov-14	26-Nov-14	26-Nov-14	8-Apr-15	8-Apr-15	13-Dec-13	7-May-14	15-Aug-14	1-Oct-14	26-Nov-14	26-Nov-14	10-Apr-15	10-Apr-15
Sample ID				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	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
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				B4I4645	B4M0745	B4M0745	B4M4069	B4M4069	B561683	B561683	B3L6734	B475182	B4E7727	B4I4645	B4M4069	B4M4069	B563828	B563828
Laboratory Sample ID				XV9683	YO3444	YO3445	YP9575	YP9576	ABP945	ABP946	UH4003	VV0846	XD5195	XV9685	YP9569	YP9570	ABZ562	ABZ563
Filtered				Lab Filtered Metals	-	Lab Filtered	Field Filtered Metals	Lab Filtered	Field Filtered Metals	Lab Filtered	Lab Filtered Metals	Lab Filtered Metals	Lab Filtered Metals	Lab Filtered Metals	Field Filtered Metals	Lab Filtered	Field Filtered Metals	Lab Filtered
Sample Type	Units	ODWS	Ontario SCS															
General Chemistry																		
Acidity	mg/L	n/v	n/v	84	-	-	-	-	11	-	-	< 10	< 10	< 10	-	-	<10	-
Alkalinity, Bicarbonate (as CaCO3)	mg/L	n/v	n/v	200	-	-	220	-	210	-	120	88	88	89	97	-	98	-
Alkalinity, Carbonate (as CaCO3)	mg/L	n/v	n/v	1.7	-	-	1.7	-	1.3	-	1.5	1.8	1.8	1.5	2.0	-	1.3	-
Alkalinity, Total (as CaCO3)	mg/L	30-500[E]	n/v	200	-	-	220	-	210	-	120	90	90	91	99	-	99	-
Ammonia (as N)	mg/L	n/v	n/v	0.44	-	-	< 0.050	-	<0.05	-	0.34	< 0.050	< 0.050	0.27	0.063	-	0.066	-
Anion Sum	meq/L	n/v	n/v	7.82	-	-	8.09	-	8.20	-	3.78	2.27	2.14	2.14	2.23	-	2.41	-
Cation Sum	meq/L	n/v	n/v	7.73	-	-	8.52	-	8.25	-	4.05	64.8	2.08	2.18	2.11	-	2.01	-
Chloride	mg/L	250[D]	790[GH]	25	-	-	25	-	26	-	21	6	3	2	2	-	9	-
Cyanide (Free)	µg/L	200[B]	52[GH]	< 2	-	-	-	-	<2	-	-	< 2	< 2	< 2	-	-	<2	-
Dissolved Organic Carbon (DOC)	mg/L	5[D]	n/v	1.1	-	-	3.2	-	0.96	-	**14[D]**	3.2	2.9	2.5	2.0	-	3.5	-
Electrical Conductivity, Lab	µmhos/cm	n/v	n/a[GH]	740	-	-	780	-	790	-	380	200	200	200	190	-	190	-
Fluoride	mg/L	1.5_{h}[B]	n/v	0.15	-	-	-	-	0.13	-	-	0.96	0.84	0.78	-	-	0.97	-
Hardness (as CaCO3)	mg/L	80-100[E]	n/v	**370[E]**	-	-	**410[E]**	-	**400[E]**	-	**130[E]**	**3200[E]**	**45[E]**	**49[E]**	**43[E]**	-	**39[E]**	-
Ion Balance	%	n/v	n/v	0.580	-	-	2.54	-	0.300	-	3.37	93.2	< 0	< 0	< 0	-	NC	-
Langelier Index (at 20 C)	none	n/v	n/v	0.714	-	-	0.802	-	0.682	-	0.359	2.02	-0.106	-0.175	-0.0410	-	-0.324	-
Langelier Index (at 4 C)	none	n/v	n/v	0.467	-	-	0.554	-	0.434	-	0.109	1.77	-0.355	-0.423	-0.292	-	-0.574	-
Nitrate (as N)	mg/L	10.0_{d}[B]	n/v	**18.2[B]**	-	-	**17.0[B]**	-	**20.4[B]**	-	0.96	< 0.10	< 0.10	< 0.10	< 0.10	-	<0.1	-
Nitrate + Nitrite (as N)	mg/L	10.0_{d}[B]	n/v	**18.3[B]**	-	-	**17.0[B]**	-	**20.4[B]**	-	0.99	< 0.10	< 0.10	< 0.10	< 0.10	-	<0.1	-
Nitrite (as N)	mg/L	1.0_{d}[B]	n/v	0.108	-	-	0.030	-	<0.01	-	0.023	< 0.010	< 0.010	< 0.010	< 0.010	-	<0.01	-
Orthophosphate(as P)	mg/L	n/v	n/v	< 0.010	-	-	< 0.010	-	<0.01	-	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	-	<0.01	-
pH	S.U.	6.5-8.5[E]	n/v	7.95	-	-	7.91	-	7.81	-	8.15	8.35	8.33	8.27	8.35	-	8.13	-
Saturation pH (at 20 C)	none	n/v	n/v	7.23	-	-	7.11	-	7.13	-	7.79	6.33	8.44	8.44	8.39	-	8.46	-
Saturation pH (at 4 C)	none	n/v	n/v	7.48	-	-	7.36	-	7.38	-	8.04	6.58	8.69	8.69	8.64	-	8.71	-
Sulfate	mg/L	500_{h}[D]	n/v	84	-	-	85	-	87	-	38	11	11	11	10	-	6	-
Total Dissolved Solids	mg/L	500[D]	n/v	**616[D]**	-	-	-	-	476	-	-	170	276	346	-	-	230	-
Total Dissolved Solids (Calculated)	mg/L	500[D]	n/v	-	-	-	490	-	490	-	-	-	-	-	130	-	130	-
Total Organic Carbon	mg/L	n/v	n/v	2.7	-	-	-	-	0.97	-	-	11	3.5	2.5	-	-	4.3	-
Total Suspended Solids	mg/L	n/v	n/v	2600	340	-	35	-	10	-	-	18000	12000	7400	40	-	250	-
Turbidity, Lab	ntu	5_{L}[D,E]	n/v	**580[D]**	**46[D]**	-	**12[D]**	-	**6.6[D]**	-	-	**1400[D]**	**3100[D]**	**5200[D]**	**110[D]**	-	**120[D]**	-
BTEX and Petroleum Hydrocarbons																		
Benzene	µg/L	5[B]	0.5^{G} 5^{H}	< 0.20	< 0.20	-	< 0.20	-	<0.2	-	**1.7[G]**	**0.77[G]**	0.32	0.31	< 0.20	-	0.23	-
Toluene	µg/L	24[D]	24^{G} 22^{H}	< 0.20	< 0.20	-	< 0.20	-	<0.2	-	3.4	1.4	0.82	0.96	0.44	-	0.58	-
Ethylbenzene	µg/L	2.4[D]	2.4^{GH}	< 0.20	< 0.20	-	< 0.20	-	<0.2	-	0.49	0.22	< 0.20	< 0.20	< 0.20	-	<0.2	-
Xylene, m & p-	µg/L	300_{s1}[D]	$_{s1}$[GH]	< 0.40	< 0.20	-	< 0.20	-	<0.2	-	1.7	0.82	0.52	0.74	0.29	-	0.44	-
Xylene, o-	µg/L	300_{s1}[D]	$_{s1}$[GH]	< 0.20	< 0.20	-	< 0.20	-	<0.2	-	0.61	0.31	< 0.20	0.30	< 0.20	-	<0.2	-
Xylenes, Total	µg/L	300[D]	72_{s1}[G] 300_{s1}[H]	< 0.40	< 0.20	-	< 0.20	-	<0.2	-	2.3	1.1	0.52	1.0	0.29	-	0.44	-
PHC F1 (C6-C10 range)	µg/L	n/v	420_{s7}[G] 420_{s7}[H]	< 25	-	-	-	-	<25	-	< 25	< 25	< 25	< 25	-	-	<25	-
PHC F1 (C6-C10 range) minus BTEX	µg/L	n/v	420_{s7}[G] 420_{s7}[H]	< 25	-	-	-	-	<25	-	< 25	< 25	< 25	< 25	-	-	<25	-
PHC F2 (>C10-C16 range)	µg/L	n/v	150_{s15}[G] 150_{s15}[H]	< 100	-	-	-	-	<100	-	< 100	< 100	< 100	< 100	-	-	<100	-
PHC F3 (>C16-C34 range)	µg/L	n/v	500_{s8}[G] 500_{s8}[H]	< 200	-	-	-	-	<200	-	< 200	< 200	< 200	< 200	-	-	<200	-
PHC F4 (>C34-C50 range)	µg/L	n/v	500_{s10}[G] 500_{s10}[H]	< 200	-	-	-	-	<200	-	< 200	< 200	< 200	< 200	-	-	<200	-
Chromatogram to baseline at nC50	none	n/v	n/v	YES	-	-	-	-	YES	-	YES	YES	YES	YES	-	-	YES	-

Summary of Groundwater Analytical Results - Monitoring Wells
Clarington Tranformer Station
Hydro One Networks Inc.

Sample Location				MW1-13-S (Contd.)							MW2-13-D							
Sample Date				1-Oct-14	20-Nov-14	20-Nov-14	26-Nov-14	26-Nov-14	8-Apr-15	8-Apr-15	13-Dec-13	7-May-14	15-Aug-14	1-Oct-14	26-Nov-14	26-Nov-14	10-Apr-15	10-Apr-15
Sample ID				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	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
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				B4I4645	B4M0745	B4M0745	B4M4069	B4M4069	B561683	B561683	B3L6734	B475182	B4E7727	B4I4645	B4M4069	B4M4069	B563828	B563828
Laboratory Sample ID				XV9683	YO3444	YO3445	YP9575	YP9576	ABP945	ABP946	UH4003	VV0846	XD5195	XV9685	YP9569	YP9570	ABZ562	ABZ563
Filtered				Lab Filtered Metals	-	Lab Filtered	Field Filtered Metals	Lab Filtered	Field Filtered Metals	Lab Filtered	Lab Filtered Metals	Lab Filtered Metals	Lab Filtered Metals	Lab Filtered Metals	Field Filtered Metals	Lab Filtered	Field Filtered Metals	Lab Filtered
Sample Type	Units	ODWS	Ontario SCS															
Metals																		
Aluminum	µg/L	100[E]	n/v	5.4	-	-	< 5.0	< 5.0	<5	-	6.9	-	13	14	7.6	9.0	12	-
Antimony	µg/L	6[C]	6[GH]	< 0.50	-	-	< 0.50	< 0.50	<0.5	-	< 0.50	-	< 0.50	< 0.50	< 0.50	< 0.50	0.54	-
Arsenic	µg/L	25[C]	25[GH]	< 1.0	-	-	< 1.0	< 1.0	<1	-	< 1.0	-	1.4	1.2	< 1.0	< 1.0	<1	-
Barium	µg/L	1000[B]	1000[GH]	66	-	-	73	69	62	-	100	-	33	42	28	26	19	-
Beryllium	µg/L	n/v	4[GH]	< 0.50	-	-	< 0.50	< 0.50	<0.5	-	< 0.50	-	< 0.50	< 0.50	< 0.50	< 0.50	<0.5	-
Boron	µg/L	5000[C]	5000[GH]	38	-	-	23	18	12	-	150	-	140	130	140	130	120	-
Cadmium	µg/L	5[B]	2.1[GH]	< 0.10	-	-	< 0.10	< 0.10	<0.1	-	< 0.10	-	< 0.10	< 0.10	< 0.10	< 0.10	<0.1	-
Calcium	µg/L	n/v	n/v	89000	-	-	100000	100000	100000	-	34000	-	11000	11000	9300	8700	8800	-
Cesium	µg/L	n/v	n/v	-	-	-	-	-	-	-	< 0.20	-	-	-	-	-	-	-
Chromium (Hexavalent)	µg/L	n/v	25[GH]	< 5.0	-	-	-	-	0.80	-	-	< 0.50	< 0.50	< 0.50	-	-	<0.5	-
Chromium (Total)	µg/L	50[B]	50[GH]	< 5.0	-	-	< 5.0	< 5.0	<5	-	< 5.0	-	< 5.0	< 5.0	< 5.0	< 5.0	<5	-
Cobalt	µg/L	n/v	3.8[GH]	< 0.50	-	-	< 0.50	< 0.50	<0.5	-	< 0.50	-	< 0.50	< 0.50	< 0.50	< 0.50	<0.5	-
Copper	µg/L	1000[D]	69[GH]	< 1.0	-	-	1.8	< 1.0	<1	-	< 1.0	-	3.5	< 1.0	< 1.0	< 1.0	<1	-
Iron	µg/L	300[D]	n/v	< 100	-	-	< 100	< 100	<100	-	< 100	-	< 100	< 100	< 100	< 100	<100	-
Lead	µg/L	10_e[B]	10[GH]	< 0.50	-	-	< 0.50	< 0.50	<0.5	-	< 0.50	-	< 0.50	< 0.50	< 0.50	< 0.50	<0.5	-
Magnesium	µg/L	n/v	n/v	35000	-	-	36000	35000	35000	-	11000	-	4600	5300	4800	4600	4100	-
Manganese	µg/L	50[D]	n/v	5.8	-	-	9.3	9.3	5.7	-	7.6	-	2.8	3.2	2.6	2.6	5.2	-
Mercury	µg/L	1[B]	0.1[G] 0.29[H]	< 0.1	-	-	-	-	<0.1	-	-	0.00016	< 0.10	< 0.1	-	-	<0.1	-
Molybdenum	µg/L	n/v	70[GH]	11	-	-	4.6	5.1	3.2	-	22	-	8.6	5.4	3.6	3.7	7.5	-
Nickel	µg/L	n/v	100[GH]	< 1.0	-	-	< 1.0	1.3	<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	<100	-
Potassium	µg/L	n/v	n/v	5100	-	-	3700	3700	2800	-	7700	-	2600	2200	2200	2100	2300	-
Rubidium	µg/L	n/v	n/v	-	-	-	-	-	-	-	1.9	-	-	-	-	-	-	-
Selenium	µg/L	10[B]	10[GH]	< 2.0	-	-	< 2.0	< 2.0	<2	-	< 2.0	-	< 2.0	< 2.0	< 2.0	< 2.0	<2	-
Silicon	µg/L	n/v	n/v	7900	-	-	9100	8700	7600	-	4900	-	4000	4400	4700	4800	4400	-
Silver	µg/L	n/v	1.2[GH]	< 0.10	-	-	< 0.10	< 0.10	<0.1	-	< 0.10	-	< 0.10	< 0.10	< 0.10	< 0.10	<0.1	-
Sodium	µg/L	200000_g[D] 20000_g[F]	490000[GH]	6300	-	-	6300	6000	5400	-	**27000[F]**	-	**25000[F]**	**26000[F]**	**27000[F]**	**25000[F]**	**27000[F]**	-
Strontium	µg/L	n/v	n/v	400	-	-	370	370	340	-	470	-	240	290	240	240	210	-
Thallium	µg/L	n/v	2[GH]	< 0.050	-	-	< 0.050	< 0.050	<0.05	-	< 0.050	-	< 0.050	< 0.050	< 0.050	< 0.050	<0.05	-
Titanium	µg/L	n/v	n/v	< 5.0	-	-	< 5.0	< 5.0	<5	-	< 5.0	-	< 5.0	< 5.0	< 5.0	< 5.0	<5	-
Uranium	µg/L	20[B]	20[GH]	3.0	-	-	2.2	2.3	1.8	-	0.57	-	0.64	0.48	< 0.10	< 0.10	<0.1	-
Vanadium	µg/L	n/v	6.2[GH]	0.63	-	-	< 0.50	0.54	<0.5	-	1.0	-	1.6	2.3	< 0.50	< 0.50	<0.5	-
Zinc	µg/L	5000[D]	890[GH]	< 5.0	-	-	6.5	5.2	<5	-	< 5.0	-	< 5.0	< 5.0	< 5.0	< 5.0	<5	-
Zirconium	µg/L	n/v	n/v	< 1.0	-	-	< 1.0	< 1.0	<1	-	< 1.0	-	-	< 1.0	< 1.0	< 1.0	<1	-
Polychlorinated Biphenyls																		
Aroclor 1242	µg/L	n/v	0.2_{s14}[G] 0.2_{s14}[H]	***< 0.5***	-	-	-	-	<0.05	-	-	< 0.05	< 0.05	***< 0.5***	-	-	<0.05	-
Aroclor 1248	µg/L	n/v	0.2_{s14}[G] 0.2_{s14}[H]	***< 0.5***	-	-	-	-	<0.05	-	-	< 0.05	< 0.05	***< 0.5***	-	-	<0.05	-
Aroclor 1254	µg/L	n/v	0.2_{s14}[G] 0.2_{s14}[H]	***< 0.5***	-	-	-	-	<0.05	-	-	< 0.05	< 0.05	***< 0.5***	-	-	<0.05	-
Aroclor 1260	µg/L	n/v	0.2_{s14}[G] 0.2_{s14}[H]	***< 0.5***	-	-	-	-	<0.05	-	-	< 0.05	< 0.05	***< 0.5***	-	-	<0.05	-
Polychlorinated Biphenyls (PCBs)	µg/L	3[C]	0.2_{s14}[G] 0.2_{s14}[H]	***< 0.5***	-	-	-	-	<0.05	-	-	< 0.05	< 0.05	***< 0.5***	-	-	<0.05	-

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Clarington Tranformer Station
Hydro One Networks Inc.

Sample Location				MW1-13-S (Contd.)							MW2-13-D							
Sample Date				1-Oct-14	20-Nov-14	20-Nov-14	26-Nov-14	26-Nov-14	8-Apr-15	8-Apr-15	13-Dec-13	7-May-14	15-Aug-14	1-Oct-14	26-Nov-14	26-Nov-14	10-Apr-15	10-Apr-15
Sample ID				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	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
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				B4I4645	B4M0745	B4M0745	B4M4069	B4M4069	B561683	B561683	B3L6734	B475182	B4E7727	B4I4645	B4M4069	B4M4069	B563828	B563828
Laboratory Sample ID				XV9683	YO3444	YO3445	YP9575	YP9576	ABP945	ABP946	UH4003	VV0846	XD5195	XV9685	YP9569	YP9570	ABZ562	ABZ563
Filtered				Lab Filtered Metals	-	Lab Filtered	Field Filtered Metals	Lab Filtered	Field Filtered Metals	Lab Filtered	Lab Filtered Metals	Lab Filtered Metals	Lab Filtered Metals	Lab Filtered Metals	Field Filtered Metals	Lab Filtered	Field Filtered Metals	Lab Filtered
Sample Type	Units	ODWS	Ontario SCS															
Semi - Volatile Organic Compounds																		
Phthalates																		
Bis(2-Ethylhexyl)phthalate (DEHP)	µg/L	n/v	10[GH]	**28[GH]**	4	1	< 1	< 1	<1	<1	-	4	< 1	< 1	1	< 1	2	<1
Diethyl Phthalate	µg/L	n/v	30[GH]	< 2	< 0.1	< 0.1	< 0.1	< 0.1	<0.1	<0.1	-	0.2	< 0.1	< 0.1	0.2	0.2	<0.1	0.1
Dimethyl Phthalate	µg/L	n/v	30[GH]	< 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
Polycyclic Aromatic Hydrocarbons																		
Acenaphthene	µg/L	n/v	4.1[GH]	< 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	<0.2
Acenaphthylene	µg/L	n/v	1[GH]	***< 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	<0.2
Anthracene	µg/L	n/v	1[GH]	< 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	<0.05
Benzo(a)anthracene	µg/L	n/v	1[GH]	< 1	0.15	< 0.05	< 0.05	< 0.05	<0.05	<0.05	-	0.06	< 0.05	< 0.05	< 0.05	< 0.05	<0.05	<0.05
Benzo(a)pyrene	µg/L	0.01[B]	0.01[GH]	***< 0.2***	**0.08[BGH]**	< 0.01	< 0.01	< 0.01	<0.01	<0.01	-	< 0.01	< 0.01	< 0.01	**0.02[BGH]**	< 0.01	<0.01	<0.01
Benzo(b/j)fluoranthene	µg/L	n/v	0.1[G] 0.1[H]	***< 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	<0.05
Benzo(g,h,i)perylene	µg/L	n/v	0.2[GH]	***< 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	<0.05
Benzo(k)fluoranthene	µg/L	n/v	0.1[GH]	***< 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	<0.05
Chrysene	µg/L	n/v	0.1[GH]	***< 1***	0.10	< 0.05	< 0.05	< 0.05	<0.05	<0.05	-	0.07	< 0.05	< 0.05	< 0.05	< 0.05	<0.05	<0.05
Dibenzo(a,h)anthracene	µg/L	n/v	0.2[GH]	***< 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
Fluoranthene	µg/L	n/v	0.41[GH]	***< 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	<0.2
Fluorene	µg/L	n/v	120[GH]	< 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	<0.2
Indeno(1,2,3-cd)pyrene	µg/L	n/v	0.2[GH]	***< 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
Methylnaphthalene (Total)	µg/L	n/v	3.2[G] 3.2[H]	***< 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	<0.28
Methylnaphthalene, 1-	µg/L	n/v	[GH]	< 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	<0.2
Methylnaphthalene, 2-	µg/L	n/v	[GH]	< 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	<0.2
Naphthalene	µg/L	n/v	7[G] 11[H]	< 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	<0.2
Phenanthrene	µg/L	n/v	1GH	***< 2***	0.1	< 0.1	< 0.1	< 0.1	<0.1	<0.1	-	0.2	< 0.1	0.1	< 0.1	< 0.1	<0.1	<0.1
Pyrene	µg/L	n/v	4.1[GH]	< 1	0.24	< 0.05	< 0.05	< 0.05	<0.05	<0.05	-	0.13	< 0.05	0.12	< 0.05	< 0.05	<0.05	<0.05
Remaining Semi - Volatile Organic Compounds																		
Biphenyl, 1,1'- (Biphenyl)	µg/L	n/v	0.5[GH]	***< 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
Bis(2-Chloroethyl)ether	µg/L	n/v	5[GH]	***< 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	<0.5
Bis(2-Chloroisopropyl)ether	µg/L	n/v	120[GH]	< 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	<0.5
Chloroaniline, 4-	µg/L	n/v	10[GH]	***< 20***	< 1	< 1	< 1	< 1	<1	<1	-	< 1	< 1	< 1	< 1	< 1	<1	<1
Chlorophenol, 2- (ortho-Chlorophenol)	µg/L	n/v	8.9[GH]	< 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
Dichlorobenzidine, 3,3'-	µg/L	n/v	0.5[GH]	***< 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	<0.5
Dichlorophenol, 2,4-	µg/L	900[B] 0.3[D]	20[GH]	***< 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
Dimethylphenol, 2,4-	µg/L	n/v	59[GH]	< 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	<0.5
Dinitrophenol, 2,4-	µg/L	n/v	10[GH]	***< 40***	< 2	< 2	< 2	< 2	<2	<2	-	< 2	< 2	< 2	< 2	< 2	<2	<2
Dinitrotoluene, 2,4-	µg/L	n/v	5[I13] 5[I13]	< 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	<0.3
Dinitrotoluene, 2,6-	µg/L	n/v	5[I13] 5[I13]	< 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	<0.3
Pentachlorophenol	µg/L	60[B] 30[D]	30[GH]	< 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
Phenol	µg/L	n/v	890[GH]	< 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	<0.5
Trichlorobenzene, 1,2,4-	µg/L	n/v	3[G] 70[H]	< 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
Trichlorophenol, 2,4,5-	µg/L	n/v	8.9[GH]	< 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	<0.2
Trichlorophenol, 2,4,6-	µg/L	5[B] 2[D]	2[GH]	***< 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	<0.2

Summary of Groundwater Analytical Results - Monitoring Wells
Clarington Tranformer Station
Hydro One Networks Inc.

Sample Location				MW1-13-S (Contd.)							MW2-13-D							
Sample Date				1-Oct-14	20-Nov-14	20-Nov-14	26-Nov-14	26-Nov-14	8-Apr-15	8-Apr-15	13-Dec-13	7-May-14	15-Aug-14	1-Oct-14	26-Nov-14	26-Nov-14	10-Apr-15	10-Apr-15
Sample ID				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	CLARS12131WG-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
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				B4I4645	B4M0745	B4M0745	B4M4069	B4M4069	B561683	B561683	B3L6734	B475182	B4E7727	B4I4645	B4M4069	B4M4069	B563828	B563828
Laboratory Sample ID				XV9683	YO3444	YO3445	YP9575	YP9576	ABP945	ABP946	UH4003	VV0846	XD5195	XV9685	YP9569	YP9570	ABZ562	ABZ563
Filtered				Lab Filtered Metals	-	Lab Filtered	Field Filtered Metals	Lab Filtered	Field Filtered Metals	Lab Filtered	Lab Filtered Metals	Lab Filtered Metals	Lab Filtered Metals	Lab Filtered Metals	Field Filtered Metals	Lab Filtered	Field Filtered Metals	Lab Filtered
Sample Type	Units	ODWS	Ontario SCS															
Volatile Organic Compounds																		
Acetone	µg/L	n/v	2700[GH]	< 10	< 10	-	< 10	-	<10	-	-	< 10	< 10	< 10	< 10	-	<10	-
Bromodichloromethane	µg/L	n/v	16[GH]	< 0.50	< 0.50	-	< 0.50	-	<0.5	-	-	< 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	-	-	< 1.0	< 1.0	< 1.0	< 1.0	-	<1	-
Bromomethane (Methyl bromide)	µg/L	n/v	0.89[GH]	< 0.50	< 0.50	-	< 0.50	-	<0.5	-	-	< 0.50	< 0.50	< 0.50	< 0.50	-	<0.5	-
Carbon Tetrachloride (Tetrachloromethane)	µg/L	5[B]	0.2[G] 0.79[H]	< 0.20	< 0.20	-	< 0.20	-	<0.2	-	-	< 0.20	< 0.20	< 0.20	< 0.20	-	<0.2	-
Chlorobenzene (Monochlorobenzene)	µg/L	80[B] 30$_t$[D]	30[GH]	< 0.20	< 0.20	-	< 0.20	-	<0.2	-	-	< 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	-	<0.2	-	-	< 0.20	< 0.20	< 0.20	< 0.20	-	<0.2	-
Dibromochloromethane	µg/L	n/v	25[GH]	< 0.50	< 0.50	-	< 0.50	-	<0.5	-	-	< 0.50	< 0.50	< 0.50	< 0.50	-	<0.5	-
Dichlorobenzene, 1,2-	µg/L	200[B] 3$_t$[D]	3[GH]	< 0.50	< 0.50	-	< 0.50	-	<0.5	-	-	< 0.50	< 0.50	< 0.50	< 0.50	-	<0.5	-
Dichlorobenzene, 1,3-	µg/L	n/v	59[GH]	< 0.50	< 0.50	-	< 0.50	-	<0.5	-	-	< 0.50	< 0.50	< 0.50	< 0.50	-	<0.5	-
Dichlorobenzene, 1,4-	µg/L	5[B] 1$_t$[D]	0.5[G] 1[H]	< 0.50	< 0.50	-	< 0.50	-	<0.5	-	-	< 0.50	< 0.50	< 0.50	< 0.50	-	<0.5	-
Dichlorodifluoromethane (Freon 12)	µg/L	n/v	590[GH]	< 1.0	< 1.0	-	< 1.0	-	<1	-	-	< 1.0	< 1.0	< 1.0	< 1.0	-	<1	-
Dichloroethane, 1,1-	µg/L	n/v	5[GH]	< 0.20	< 0.20	-	< 0.20	-	<0.2	-	-	< 0.20	< 0.20	< 0.20	< 0.20	-	<0.2	-
Dichloroethane, 1,2-	µg/L	5[C]	0.5[G] 1.6[H]	< 0.50	< 0.50	-	< 0.50	-	<0.5	-	-	< 0.50	< 0.50	< 0.50	< 0.50	-	<0.5	-
Dichloroethene, 1,1-	µg/L	14[B]	0.5[G] 1.6[H]	< 0.20	< 0.20	-	< 0.20	-	<0.2	-	-	< 0.20	< 0.20	< 0.20	< 0.20	-	<0.2	-
Dichloroethene, cis-1,2-	µg/L	n/v	1.6[GH]	< 0.50	< 0.50	-	< 0.50	-	<0.5	-	-	< 0.50	< 0.50	< 0.50	< 0.50	-	<0.5	-
Dichloroethene, trans-1,2-	µg/L	n/v	1.6[GH]	< 0.50	< 0.50	-	< 0.50	-	<0.5	-	-	< 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	-	<0.2	-	-	< 0.20	< 0.20	< 0.20	< 0.20	-	<0.2	-
Dichloropropene, 1,3- (sum of isomers cis + trans)	µg/L	n/v	0.5$_{s11}$[G] 0.5$_{s11}$[H]	< 0.50	< 0.50	-	< 0.50	-	<0.5	-	-	< 0.50	< 0.50	< 0.50	< 0.50	-	<0.5	-
Dichloropropene, cis-1,3-	µg/L	n/v	$_{s11}$[GH]	< 0.30	< 0.30	-	< 0.30	-	<0.3	-	-	< 0.30	< 0.30	< 0.30	< 0.30	-	<0.3	-
Dichloropropene, trans-1,3-	µg/L	n/v	$_{s11}$[GH]	< 0.40	< 0.40	-	< 0.40	-	<0.4	-	-	< 0.40	< 0.40	< 0.40	< 0.40	-	<0.4	-
Ethylene Dibromide (Dibromoethane, 1,2-)	µg/L	n/v	0.2[GH]	< 0.20	< 0.20	-	< 0.20	-	<0.2	-	-	< 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	-	-	< 1.0	< 1.0	< 1.0	< 1.0	-	<1	-
Methyl Ethyl Ketone (MEK)	µg/L	n/v	1800[GH]	< 10	< 10	-	< 10	-	<10	-	-	< 10	< 10	< 10	< 10	-	<10	-
Methyl Isobutyl Ketone (MIBK)	µg/L	n/v	640[GH]	< 5.0	< 5.0	-	< 5.0	-	<5	-	-	< 5.0	< 5.0	< 5.0	< 5.0	-	<5	-
Methyl tert-butyl ether (MTBE)	µg/L	n/v	15[GH]	< 0.50	< 0.50	-	< 0.50	-	<0.5	-	-	< 0.50	< 0.50	< 0.50	< 0.50	-	<0.5	-
Methylene Chloride (Dichloromethane)	µg/L	50[B]	26[G] 50[H]	< 2.0	< 2.0	-	< 2.0	-	<2	-	-	< 2.0	< 2.0	< 2.0	< 2.0	-	<2	-
Styrene	µg/L	n/v	5.4[GH]	< 0.50	< 0.50	-	< 0.50	-	<0.5	-	-	< 0.50	< 0.50	< 0.50	< 0.50	-	<0.5	-
Tetrachloroethane, 1,1,1,2-	µg/L	n/v	1.1[GH]	< 0.50	< 0.50	-	< 0.50	-	<0.5	-	-	< 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	-	<0.5	-	-	< 0.50	< 0.50	< 0.50	< 0.50	-	<0.5	-
Tetrachloroethene (PCE)	µg/L	30[B]	0.5[G] 1.6[H]	< 0.20	< 0.20	-	< 0.20	-	<0.2	-	-	< 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	-	<0.2	-	-	< 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	-	<0.5	-	-	< 0.50	< 0.50	< 0.50	< 0.50	-	<0.5	-
Trichloroethene (TCE)	µg/L	5[B]	0.5[G] 1.6[H]	< 0.20	< 0.20	-	< 0.20	-	<0.2	-	-	< 0.20	< 0.20	< 0.20	< 0.20	-	<0.2	-
Trichlorofluoromethane (Freon 11)	µg/L	n/v	150[GH]	< 0.50	< 0.50	-	< 0.50	-	<0.5	-	-	< 0.50	< 0.50	< 0.50	< 0.50	-	<0.5	-
Vinyl chloride	µg/L	2[B]	0.5[GH]	< 0.20	< 0.20	-	< 0.20	-	<0.2	-	-	< 0.20	< 0.20	< 0.20	< 0.20	-	<0.2	-

See notes on last page

Summary of Groundwater Analytical Results - Monitoring Wells
Clarington Tranformer Station
Hydro One Networks Inc.

Sample Location				MW2-13-S										MW3-13-D						
Sample Date				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	8-May-14	14-Aug-14	1-Oct-14	22-Dec-14	22-Dec-14	8-Apr-15	8-Apr-15
Sample ID				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	MW3-13-D	MW3-13-D	WG-160900764-20141001-JK2	WG-160900764-20141222-MF03	WG-160900764-20141222-MF03A	WG-160900764-20150408-RD02	WG-160900764-20150408-RD02A
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	B475182	B4E7727	B4I4645	B4M0745	B4M0745	B4M4069	B4M4069	B565881	B565881	B476124	B4E7727	B4I4645	B4O2426	B4O2426	B561683	B561683
Laboratory Sample ID				UH4004	VV0845	XD5196	XV9684	YO3442	YO3443	YP9571	YP9572	ACK475	ACK476	VV5728	XD5193	XV9678	YY7643	YY7644	ABP941	ABP942
Filtered				Lab Filtered	Lab Filtered	Lab Filtered	Lab Filtered	-	Lab Filtered	Field Filtered	Lab Filtered	Field Filtered	Lab Filtered	Lab Filtered	Lab Filtered	Lab Filtered	Field Filtered	Lab Filtered	Field Filtered	Lab Filtered
Sample Type	**Units**	**ODWS**	**Ontario SCS**	Metals	Metals	Metals	Metals			Metals		Metals		Metals	Metals	Metals	Metals		Metals	
General Chemistry																				
Acidity	mg/L	n/v	n/v	-	< 10	< 10	< 10	-	-	-	-	<10	-	11	11	< 10	-	-	14	-
Alkalinity, Bicarbonate (as CaCO3)	mg/L	n/v	n/v	200	190	190	190	-	-	190	-	180	-	150	150	160	170	-	170	-
Alkalinity, Carbonate (as CaCO3)	mg/L	n/v	n/v	2.0	2.5	2.4	2.2	-	-	2.3	-	<1	-	1.1	1.0	1.3	1.5	-	<1	-
Alkalinity, Total (as CaCO3)	mg/L	30-500[E]	n/v	200	190	200	190	-	-	190	-	180	-	150	150	160	170	-	170	-
Ammonia (as N)	mg/L	n/v	n/v	0.16	0.15	0.12	0.23	-	-	< 0.050	-	0.052	-	0.29	0.34	0.45	-	-	<0.05	-
Anion Sum	meq/L	n/v	n/v	5.12	4.51	4.63	4.49	-	-	4.46	-	4.26	-	16.3	17.2	16.3	19.6	-	20.1	-
Cation Sum	meq/L	n/v	n/v	5.11	52.6	4.47	4.55	-	-	4.49	-	4.27	-	18.3	17.6	17.9	20.0	-	21.4	-
Chloride	mg/L	250[D]	790[GH]	9	6	5	5	-	-	5	-	5	-	23	21	22	28	-	28	-
Cyanide (Free)	µg/L	200[B]	52[GH]	-	< 2	< 2	< 2	-	-	-	-	<2	-	< 2	< 2	< 2	-	-	<2	-
Dissolved Organic Carbon (DOC)	mg/L	5[D]	n/v	1.3	1.2	0.93	1.5	-	-	1.2	-	0.64	-	**5.2[D]**	3.0	2.6	-	-	2.0	-
Electrical Conductivity, Lab	µmhos/cm	n/v	n/a[GH]	490	390	410	410	-	-	410	-	380	-	1600	1700	1600	1800	-	1900	-
Fluoride	mg/L	1.5_{h}[B]	n/v	-	0.27	0.27	0.27	-	-	-	-	0.27	-	0.31	0.28	0.30	-	-	0.30	-
Hardness (as CaCO3)	mg/L	80-100[E]	n/v	**210[E]**	**2600[E]**	**190[E]**	**200[E]**	-	-	**200[E]**	-	**190[E]**	-	**510[E]**	**510[E]**	**510[E]**	**580[E]**	-	**640[E]**	-
Ion Balance	%	n/v	n/v	0.110	84.2	1.85	0.610	-	-	0.290	-	0.160	-	5.59	1.08	4.65	1.08	-	3.13	-
Langelier Index (at 20 C)	none	n/v	n/v	0.606	2.02	0.565	0.497	-	-	0.538	-	0.0180	-	0.598	0.568	0.645	0.758	-	0.603	-
Langelier Index (at 4 C)	none	n/v	n/v	0.357	1.77	0.316	0.249	-	-	0.289	-	-0.232	-	0.353	0.323	0.399	0.513	-	0.358	-
Nitrate (as N)	mg/L	10.0_{d}[B]	n/v	0.18	< 0.10	< 0.10	< 0.10	-	-	< 0.10	-	<0.1	-	< 0.10	< 0.10	< 0.10	0.97	-	0.97	-
Nitrate + Nitrite (as N)	mg/L	10.0_{d}[B]	n/v	0.18	< 0.10	< 0.10	< 0.10	-	-	< 0.10	-	-	-	< 0.10	< 0.10	< 0.10	0.97	-	0.97	-
Nitrite (as N)	mg/L	1.0_{d}[B]	n/v	< 0.010	< 0.010	< 0.010	< 0.010	-	-	< 0.010	-	<0.01	-	< 0.010	0.019	< 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	-	<0.01	-	< 0.010	< 0.010	< 0.010	< 0.010	-	<0.01	-
pH	S.U.	6.5-8.5[E]	n/v	8.03	8.15	8.11	8.09	-	-	8.11	-	7.63	-	7.91	7.88	7.93	7.97	-	7.77	-
Saturation pH (at 20 C)	none	n/v	n/v	7.42	6.13	7.55	7.59	-	-	7.57	-	7.61	-	7.31	7.31	7.29	7.21	-	7.17	-
Saturation pH (at 4 C)	none	n/v	n/v	7.67	6.38	7.80	7.84	-	-	7.82	-	7.86	-	7.56	7.56	7.53	7.45	-	7.41	-
Sulfate	mg/L	500_{h}[D]	n/v	39	27	26	23	-	-	23	-	22	-	**610[D]**	**660[D]**	**600[D]**	**740[D]**	-	**760[D]**	-
Total Dissolved Solids	mg/L	500[D]	n/v	-	228	300	380	-	-	-	-	-	-	**1140[D]**	**1320[D]**	**1270[D]**	-	-	**1490[D]**	-
Total Dissolved Solids (Calculated)	mg/L	500[D]	n/v	-	-	-	-	-	-	240	-	-	-	-	-	-	**1300[D]**	-	**1300[D]**	-
Total Organic Carbon	mg/L	n/v	n/v	-	2.7	4.2	2.1	-	-	-	-	0.88	-	22	7.0	3.4	-	-	2.8	-
Total Suspended Solids	mg/L	n/v	n/v	-	3200	2100	5900	2800	-	45	-	15	-	5200	5400	980	40	-	200	-
Turbidity, Lab	ntu	5_{L}[D, E]	n/v	-	**550[D]**	**1100[D]**	**3800[D]**	**420[D]**	-	**34[D]**	-	**6.9[D]**	-	**1300[D]**	**100[D]**	**610[D]**	**22[D]**	-	**45[D]**	-
BTEX and Petroleum Hydrocarbons																				
Benzene	µg/L	5[B]	0.5^{G} 5^{H}	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	-	< 0.20	-	<0.2	-	< 0.20	< 0.20	< 0.20	< 0.20	-	<0.2	-
Toluene	µg/L	24[D]	24^{G} 22^{H}	0.83	< 0.20	< 0.20	< 0.20	< 0.20	-	< 0.20	-	<0.2	-	0.27	< 0.20	< 0.20	< 0.20	-	<0.2	-
Ethylbenzene	µg/L	2.4[D]	2.4[GH]	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	-	< 0.20	-	<0.2	-	< 0.20	< 0.20	< 0.20	< 0.20	-	<0.2	-
Xylene, m & p-	µg/L	300_{s1}[D]	[GH]	0.70	0.23	0.24	< 0.40	< 0.20	-	< 0.20	-	<0.2	-	0.20	< 0.20	< 0.40	< 0.20	-	<0.2	-
Xylene, o-	µg/L	300_{s1}[D]	[GH]	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	-	< 0.20	-	<0.2	-	< 0.20	< 0.20	< 0.20	< 0.20	-	<0.2	-
Xylenes, Total	µg/L	300[D]	72_{s1}[G] 300_{s1}[H]	0.70	0.23	0.24	< 0.40	< 0.20	-	< 0.20	-	<0.2	-	0.20	< 0.20	< 0.40	< 0.20	-	<0.2	-
PHC F1 (C6-C10 range)	µg/L	n/v	420_{s7}[G] 420_{s7}[H]	< 25	< 25	< 25	< 25	-	-	-	-	<25	-	< 25	< 25	< 25	-	-	<25	-
PHC F1 (C6-C10 range) minus BTEX	µg/L	n/v	420_{s7}[G] 420_{s7}[H]	< 25	< 25	< 25	< 25	-	-	-	-	<25	-	< 25	< 25	< 25	-	-	<25	-
PHC F2 (>C10-C16 range)	µg/L	n/v	150_{s15}[G] 150_{s15}[H]	< 100	< 100	< 100	< 100	-	-	-	-	<100	-	< 100	< 100	< 100	-	-	<100	-
PHC F3 (>C16-C34 range)	µg/L	n/v	500_{s8}[G] 500_{s8}[H]	< 200	< 200	< 200	< 200	-	-	-	-	<200	-	< 200	< 200	< 200	-	-	<200	-
PHC F4 (>C34-C50 range)	µg/L	n/v	500_{s10}[G] 500_{s10}[H]	< 200	< 200	< 200	< 200	-	-	-	-	<200	-	< 200	< 200	< 200	-	-	<200	-
Chromatogram to baseline at nC50	none	n/v	n/v	YES	YES	YES	YES	-	-	-	-	YES	-	YES	YES	YES	-	-	YES	-

Summary of Groundwater Analytical Results - Monitoring Wells
Clarington Tranformer Station
Hydro One Networks Inc.

Sample Location				MW2-13-S										MW3-13-D						
Sample Date				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	8-May-14	14-Aug-14	1-Oct-14	22-Dec-14	22-Dec-14	8-Apr-15	8-Apr-15
Sample ID				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	MW3-13-D	MW3-13-D	WG-160900764-20141001-JK2	WG-160900764-20141222-MF03	WG-160900764-20141222-MF03A	WG-160900764-20150408-RD02	WG-160900764-20150408-RD02A
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	B475182	B4E7727	B4I4645	B4M0745	B4M0745	B4M4069	B4M4069	B565881	B565881	B476124	B4E7727	B4I4645	B4O2426	B4O2426	B561683	B561683
Laboratory Sample ID				UH4004	VV0845	XD5196	XV9684	YO3442	YO3443	YP9571	YP9572	ACK475	ACK476	VV5728	XD5193	XV9678	YY7643	YY7644	ABP941	ABP942
Filtered				Lab Filtered	Lab Filtered	Lab Filtered	Lab Filtered	-	Lab Filtered	Field Filtered	Lab Filtered	Field Filtered	Lab Filtered	Lab Filtered	Lab Filtered	Lab Filtered	Field Filtered	Lab Filtered	Field Filtered	Lab Filtered
Sample Type	**Units**	**ODWS**	**Ontario SCS**	Metals	Metals	Metals	Metals			Metals		Metals		Metals	Metals	Metals	Metals		Metals	
Metals																				
Aluminum	µg/L	100[E]	n/v	< 5.0	-	< 5.0	7.3	-	-	< 5.0	< 5.0	<5	-	18	8.1	7.5	< 5	< 5	<5	-
Antimony	µg/L	6[C]	6[GH]	< 0.50	-	< 0.50	< 0.50	-	-	< 0.50	< 0.50	<0.5	-	< 0.50	< 0.50	0.58	< 0.5	< 0.5	<0.5	-
Arsenic	µg/L	25[C]	25[GH]	< 1.0	-	< 1.0	< 1.0	-	-	< 1.0	< 1.0	<1	-	< 1.0	< 1.0	< 1.0	< 1	< 1	<1	-
Barium	µg/L	1000[B]	1000[GH]	77	-	53	58	-	-	60	58	47	-	33	27	31	35	37	24	-
Beryllium	µg/L	n/v	4[GH]	< 0.50	-	< 0.50	< 0.50	-	-	< 0.50	< 0.50	<0.5	-	< 0.50	< 0.50	< 0.50	< 0.5	< 0.5	<0.5	-
Boron	µg/L	5000[C]	5000[GH]	49	-	53	54	-	-	52	45	23	-	430	370	380	390	420	350	-
Cadmium	µg/L	5[B]	2.1[GH]	< 0.10	-	< 0.10	< 0.10	-	-	< 0.10	< 0.10	<0.1	-	< 0.10	< 0.10	< 0.10	< 0.1	< 0.1	<0.1	-
Calcium	µg/L	n/v	n/v	48000	-	38000	37000	-	-	35000	34000	33000	-	120000	130000	120000	140000	150000	160000	-
Cesium	µg/L	n/v	n/v	< 0.20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chromium (Hexavalent)	µg/L	n/v	25[GH]	-	< 0.50	< 0.50	< 0.50	-	-	-	-	<0.5	-	< 0.50	< 0.50	< 0.50	-	-	<0.5	-
Chromium (Total)	µg/L	50[B]	50[GH]	< 5.0	-	< 5.0	< 5.0	-	-	< 5.0	< 5.0	<5	-	< 5.0	< 5.0	< 5.0	< 5	< 5	<5	-
Cobalt	µg/L	n/v	3.8[GH]	< 0.50	-	< 0.50	< 0.50	-	-	< 0.50	< 0.50	<0.5	-	< 0.50	0.84	0.54	< 0.5	< 0.5	<0.5	-
Copper	µg/L	1000[D]	69[GH]	< 1.0	-	< 1.0	< 1.0	-	-	1.7	< 1.0	<1	-	1.2	< 1.0	< 1.0	3.4	2.4	1.3	-
Iron	µg/L	300[D]	n/v	< 100	-	< 100	< 100	-	-	< 100	< 100	<100	-	< 100	< 100	< 100	< 100	< 100	<100	-
Lead	µg/L	10$_e$[B]	10[GH]	< 0.50	-	< 0.50	< 0.50	-	-	< 0.50	< 0.50	<0.5	-	< 0.50	< 0.50	< 0.50	< 0.5	< 0.5	<0.5	-
Magnesium	µg/L	n/v	n/v	22000	-	24000	25000	-	-	26000	25000	25000	-	48000	47000	50000	58000	64000	59000	-
Manganese	µg/L	50[D]	n/v	< 2.0	-	< 2.0	< 2.0	-	-	13	12	49	-	23	**74[D]**	37	18	19	22	-
Mercury	µg/L	1[B]	0.1[G] 0.29[H]	-	0.00011	< 0.10	< 0.1	-	-	-	-	<0.1	-	-	< 0.10	< 0.1	-	-	<0.1	-
Molybdenum	µg/L	n/v	70[GH]	20	-	4.8	4.5	-	-	3.5	3.4	2.5	-	**81[GH]**	51	58	**74[GH]**	**78[GH]**	67	-
Nickel	µg/L	n/v	100[GH]	< 1.0	-	< 1.0	< 1.0	-	-	< 1.0	< 1.0	<1	-	3.2	1.6	1.7	2.1	2.1	1.8	-
Phosphorus	µg/L	n/v	n/v	< 100	-	< 100	< 100	-	-	< 100	< 100	<100	-	< 100	< 100	< 100	< 100	< 100	<100	-
Potassium	µg/L	n/v	n/v	5600	-	3000	3300	-	-	2900	2600	2300	-	17000	9500	9400	10000	11000	9800	-
Rubidium	µg/L	n/v	n/v	0.96	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Selenium	µg/L	10[B]	10[GH]	< 2.0	-	< 2.0	< 2.0	-	-	< 2.0	< 2.0	<2	-	< 2.0	< 2.0	< 2.0	< 2	< 2	<2	-
Silicon	µg/L	n/v	n/v	6200	-	7700	8200	-	-	7700	7600	6800	-	4700	4500	4500	5000	5300	4700	-
Silver	µg/L	n/v	1.2[GH]	< 0.10	-	< 0.10	< 0.10	-	-	< 0.10	< 0.10	<0.1	-	< 0.10	< 0.10	< 0.10	< 0.1	< 0.1	<0.1	-
Sodium	µg/L	200000$_g$[D] 20000$_g$[F]	490000[GH]	17000	-	11000	12000	-	-	11000	10000	10000	-	**180000[F]**	**160000[F]**	**170000[F]**	**190000[F]**	**210000[DF]**	**190000[F]**	-
Strontium	µg/L	n/v	n/v	400	-	460	500	-	-	520	510	470	-	1500	1600	1900	2200	2400	2200	-
Thallium	µg/L	n/v	2[GH]	< 0.050	-	< 0.050	< 0.050	-	-	< 0.050	< 0.050	<0.05	-	0.11	< 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	-	< 5.0	< 5.0	< 5.0	< 5	< 5	<5	-
Uranium	µg/L	20[B]	20[GH]	1.4	-	1.2	1.0	-	-	0.74	0.76	0.6	-	7.5	6.1	7.0	5.8	6.4	7.3	-
Vanadium	µg/L	n/v	6.2[GH]	1.0	-	1.5	1.6	-	-	0.73	0.77	<0.5	-	0.74	< 0.50	< 0.50	< 0.5	< 0.5	<0.5	-
Zinc	µg/L	5000[D]	890[GH]	< 5.0	-	< 5.0	10	-	-	5.6	< 5.0	<5	-	< 5.0	21	17	18	8.5	<5	-
Zirconium	µg/L	n/v	n/v	< 1.0	-	-	< 1.0	-	-	< 1.0	< 1.0	<1	-	< 1.0	-	< 1.0	< 1	< 1	<1	-
Polychlorinated Biphenyls																				
Aroclor 1242	µg/L	n/v	0.2$_{s14}$[G] 0.2$_{s14}$[H]	-	< 0.05	< 0.05	< 0.05	-	-	-	-	<0.05	-	< 0.05	< 0.05	< 0.05	-	-	<0.05	-
Aroclor 1248	µg/L	n/v	0.2$_{s14}$[G] 0.2$_{s14}$[H]	-	< 0.05	< 0.05	< 0.05	-	-	-	-	<0.05	-	< 0.05	< 0.05	< 0.05	-	-	<0.05	-
Aroclor 1254	µg/L	n/v	0.2$_{s14}$[G] 0.2$_{s14}$[H]	-	< 0.05	< 0.05	< 0.05	-	-	-	-	<0.05	-	< 0.05	< 0.05	< 0.05	-	-	<0.05	-
Aroclor 1260	µg/L	n/v	0.2$_{s14}$[G] 0.2$_{s14}$[H]	-	< 0.05	< 0.05	< 0.05	-	-	-	-	<0.05	-	< 0.05	< 0.05	< 0.05	-	-	<0.05	-
Polychlorinated Biphenyls (PCBs)	µg/L	3[C]	0.2$_{s14}$[G] 0.2$_{s14}$[H]	-	< 0.05	< 0.05	< 0.05	-	-	-	-	<0.05	-	< 0.05	< 0.05	< 0.05	-	-	<0.05	-

Summary of Groundwater Analytical Results - Monitoring Wells
Clarington Tranformer Station
Hydro One Networks Inc.

Sample Location				MW2-13-S										MW3-13-D						
Sample Date				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	8-May-14	14-Aug-14	1-Oct-14	22-Dec-14	22-Dec-14	8-Apr-15	8-Apr-15
Sample ID				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	MW3-13-D	MW3-13-D	WG-160900764-20141001-JK2	WG-160900764-20141222-MF03	WG-160900764-20141222-MF03A	WG-160900764-20150408-RD02	WG-160900764-20150408-RD02A
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	B475182	B4E7727	B4I4645	B4M0745	B4M0745	B4M4069	B4M4069	B565881	B565881	B476124	B4E7727	B4I4645	B4O2426	B4O2426	B561683	B561683
Laboratory Sample ID				UH4004	VV0845	XD5196	XV9684	YO3442	YO3443	YP9571	YP9572	ACK475	ACK476	VV5728	XD5193	XV9678	YY7643	YY7644	ABP941	ABP942
Filtered				Lab Filtered Metals	Lab Filtered Metals	Lab Filtered Metals	Lab Filtered Metals	-	Lab Filtered	Field Filtered Metals	Lab Filtered	Field Filtered Metals	Lab Filtered	Lab Filtered Metals	Lab Filtered Metals	Lab Filtered Metals	Field Filtered Metals	Lab Filtered	Field Filtered Metals	Lab Filtered
Sample Type	**Units**	**ODWS**	**Ontario SCS**																	
Semi - Volatile Organic Compounds																				
Phthalates																				
Bis(2-Ethylhexyl)phthalate (DEHP)	µg/L	n/v	10[GH]	-	**16[GH]**	4	5	**12[GH]**	< 1	2	< 1	<1	<1	-	**16[GH]**	**41[GH]**	3	< 1	2	<1
Diethyl Phthalate	µg/L	n/v	30[GH]	-	0.2	0.5	0.2	< 0.1	0.3	0.3	0.1	<0.1	<0.1	-	< 0.5	< 0.4	< 0.1	< 0.1	<0.1	<0.1
Dimethyl Phthalate	µg/L	n/v	30[GH]	-	< 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	<0.1	<0.1
Polycyclic Aromatic Hydrocarbons																				
Acenaphthene	µg/L	n/v	4.1[GH]	-	< 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	<0.2	<0.2
Acenaphthylene	µg/L	n/v	1[GH]	-	< 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	<0.2	<0.2
Anthracene	µg/L	n/v	1[GH]	-	< 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	<0.05	<0.05
Benzo(a)anthracene	µg/L	n/v	1[GH]	-	< 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	<0.05	<0.05
Benzo(a)pyrene	µg/L	0.01[B]	0.01[GH]	-	< 0.01	< 0.01	0.01	0.01	< 0.01	< 0.01	< 0.01	<0.01	<0.01	-	**0.08[BGH]**	**0.16[BGH]**	< 0.01	< 0.01	<0.01	<0.01
Benzo(b/j)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	-	***< 0.3***	**0.3[GH]**	< 0.05	< 0.05	<0.05	<0.05
Benzo(g,h,i)perylene	µg/L	n/v	0.2[GH]	-	< 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	<0.05	<0.05
Benzo(k)fluoranthene	µg/L	n/v	0.1[GH]	-	< 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	<0.05	<0.05
Chrysene	µg/L	n/v	0.1[GH]	-	< 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	<0.05	<0.05
Dibenzo(a,h)anthracene	µg/L	n/v	0.2[GH]	-	< 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	<0.1	<0.1
Fluoranthene	µg/L	n/v	0.41[GH]	-	< 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	<0.2	<0.2
Fluorene	µg/L	n/v	120[GH]	-	< 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	<0.2	<0.2
Indeno(1,2,3-cd)pyrene	µg/L	n/v	0.2[GH]	-	< 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	<0.1	<0.1
Methylnaphthalene (Total)	µg/L	n/v	3.2[G] 3.2[H]	-	< 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	<0.28	<0.28
Methylnaphthalene, 1-	µg/L	n/v	[GH]	-	< 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	<0.2	<0.2
Methylnaphthalene, 2-	µg/L	n/v	[GH]	-	< 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	<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	-	< 1	< 0.8	< 0.2	< 0.2	<0.2	<0.2
Phenanthrene	µg/L	n/v	1GH	-	< 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	<0.1	<0.1
Pyrene	µg/L	n/v	4.1[GH]	-	< 0.05	< 0.05	0.08	0.10	< 0.05	< 0.05	< 0.05	<0.05	<0.05	-	0.5	1.0	< 0.05	< 0.05	<0.05	<0.05
Remaining Semi - Volatile Organic Compounds																				
Biphenyl, 1,1'- (Biphenyl)	µg/L	n/v	0.5[GH]	-	< 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	<0.1	<0.1
Bis(2-Chloroethyl)ether	µg/L	n/v	5[GH]	-	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	<0.5	<0.5	-	< 3	< 2	< 0.5	< 0.5	<0.5	<0.5
Bis(2-Chloroisopropyl)ether	µg/L	n/v	120[GH]	-	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	<0.5	<0.5	-	< 3	< 2	< 0.5	< 0.5	<0.5	<0.5
Chloroaniline, 4-	µg/L	n/v	10[GH]	-	< 1	< 1	< 1	< 1	< 1	< 1	< 1	<1	<1	-	< 5	< 4	< 1	< 1	<1	<1
Chlorophenol, 2- (ortho-Chlorophenol)	µg/L	n/v	8.9[GH]	-	< 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	<0.1	<0.1
Dichlorobenzidine, 3,3'-	µg/L	n/v	0.5[GH]	-	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	<0.5	<0.5	-	***< 3***	***< 2***	< 0.5	< 0.5	<0.5	<0.5
Dichlorophenol, 2,4-	µg/L	900[B] 0.3[D]	20[GH]	-	< 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	<0.1	<0.1
Dimethylphenol, 2,4-	µg/L	n/v	59[GH]	-	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	<0.5	<0.5	-	< 3	< 2	< 0.5	< 0.5	<0.5	<0.5
Dinitrophenol, 2,4-	µg/L	n/v	10[GH]	-	< 2	< 2	< 2	< 2	< 2	< 2	< 2	<2	<2	-	< 10	< 8	< 2	< 2	<2	<2
Dinitrotoluene, 2,4-	µg/L	n/v	5[I13,G] 5[I13,H]	-	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	<0.3	<0.3	-	< 1	< 1	< 0.3	< 0.3	<0.3	<0.3
Dinitrotoluene, 2,6-	µg/L	n/v	5[I13,G] 5[I13,H]	-	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	<0.3	<0.3	-	< 1	< 1	< 0.3	< 0.3	<0.3	<0.3
Pentachlorophenol	µg/L	60[B] 30[I,D]	30[GH]	-	< 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	<0.1	<0.1
Phenol	µg/L	n/v	890[GH]	-	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	<0.5	<0.5	-	< 3	< 2	< 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	-	< 0.5	< 0.4	< 0.1	< 0.1	<0.1	<0.1
Trichlorophenol, 2,4,5-	µg/L	n/v	8.9[GH]	-	< 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	<0.2	<0.2
Trichlorophenol, 2,4,6-	µg/L	5[B] 2[I,D]	2[GH]	-	< 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	<0.2	<0.2

Summary of Groundwater Analytical Results - Monitoring Wells
Clarington Tranformer Station
Hydro One Networks Inc.

Sample Location				MW2-13-S										MW3-13-D						
Sample Date				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	8-May-14	14-Aug-14	1-Oct-14	22-Dec-14	22-Dec-14	8-Apr-15	8-Apr-15
Sample ID				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	MW3-13-D	MW3-13-D	WG-160900764-20141001-JK2	WG-160900764-20141222-MF03	WG-160900764-20141222-MF03A	WG-160900764-20150408-RD02	WG-160900764-20150408-RD02A
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	B475182	B4E7727	B4I4645	B4M0745	B4M0745	B4M4069	B4M4069	B565881	B565881	B476124	B4E7727	B4I4645	B4O2426	B4O2426	B561683	B561683
Laboratory Sample ID				UH4004	VV0845	XD5196	XV9684	YO3442	YO3443	YP9571	YP9572	ACK475	ACK476	VV5728	XD5193	XV9678	YY7643	YY7644	ABP941	ABP942
Filtered				Lab Filtered Metals	Lab Filtered Metals	Lab Filtered Metals	Lab Filtered Metals	-	Lab Filtered	Field Filtered Metals	Lab Filtered	Field Filtered Metals	Lab Filtered	Lab Filtered Metals	Lab Filtered Metals	Lab Filtered Metals	Field Filtered Metals	Lab Filtered	Field Filtered Metals	Lab Filtered
Sample Type	Units	ODWS	Ontario SCS																	
Volatile Organic Compounds																				
Acetone	µg/L	n/v	2700[GH]	-	< 10	< 10	< 10	< 10	-	< 10	-	<10	-	< 10	< 10	< 10	< 10	-	<10	-
Bromodichloromethane	µg/L	n/v	16[GH]	-	< 0.50	< 0.50	< 0.50	< 0.50	-	< 0.50	-	<0.5	-	< 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	-	< 1.0	< 1.0	< 1.0	< 1.0	-	<1	-
Bromomethane (Methyl bromide)	µg/L	n/v	0.89[GH]	-	< 0.50	< 0.50	< 0.50	< 0.50	-	< 0.50	-	<0.5	-	< 0.50	< 0.50	< 0.50	< 0.50	-	<0.5	-
Carbon Tetrachloride (Tetrachloromethane)	µg/L	5[B]	0.2[G] 0.79[H]	-	< 0.20	< 0.20	< 0.20	< 0.20	-	< 0.20	-	<0.2	-	< 0.20	< 0.20	< 0.20	< 0.20	-	<0.2	-
Chlorobenzene (Monochlorobenzene)	µg/L	80[B] 30[t,D]	30[GH]	-	< 0.20	< 0.20	< 0.20	< 0.20	-	< 0.20	-	<0.2	-	< 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	-	<0.2	-	< 0.20	< 0.20	< 0.20	< 0.20	-	<0.2	-
Dibromochloromethane	µg/L	n/v	25[GH]	-	< 0.50	< 0.50	< 0.50	< 0.50	-	< 0.50	-	<0.5	-	< 0.50	< 0.50	< 0.50	< 0.50	-	<0.5	-
Dichlorobenzene, 1,2-	µg/L	200[B] 3[t,D]	3[GH]	-	< 0.50	< 0.50	< 0.50	< 0.50	-	< 0.50	-	<0.5	-	< 0.50	< 0.50	< 0.50	< 0.50	-	<0.5	-
Dichlorobenzene, 1,3-	µg/L	n/v	59[GH]	-	< 0.50	< 0.50	< 0.50	< 0.50	-	< 0.50	-	<0.5	-	< 0.50	< 0.50	< 0.50	< 0.50	-	<0.5	-
Dichlorobenzene, 1,4-	µg/L	5[B] 1[t,D]	0.5[G] 1[H]	-	< 0.50	< 0.50	< 0.50	< 0.50	-	< 0.50	-	<0.5	-	< 0.50	< 0.50	< 0.50	< 0.50	-	<0.5	-
Dichlorodifluoromethane (Freon 12)	µg/L	n/v	590[GH]	-	< 1.0	< 1.0	< 1.0	< 1.0	-	< 1.0	-	<1	-	< 1.0	< 1.0	< 1.0	< 1.0	-	<1	-
Dichloroethane, 1,1-	µg/L	n/v	5[GH]	-	< 0.20	< 0.20	< 0.20	< 0.20	-	< 0.20	-	<0.2	-	< 0.20	< 0.20	< 0.20	< 0.20	-	<0.2	-
Dichloroethane, 1,2-	µg/L	5[C]	0.5[G] 1.6[H]	-	< 0.50	< 0.50	< 0.50	< 0.50	-	< 0.50	-	<0.5	-	< 0.50	< 0.50	< 0.50	< 0.50	-	<0.5	-
Dichloroethene, 1,1-	µg/L	14[B]	0.5[G] 1.6[H]	-	< 0.20	< 0.20	< 0.20	< 0.20	-	< 0.20	-	<0.2	-	< 0.20	< 0.20	< 0.20	< 0.20	-	<0.2	-
Dichloroethene, cis-1,2-	µg/L	n/v	1.6[GH]	-	< 0.50	< 0.50	< 0.50	< 0.50	-	< 0.50	-	<0.5	-	< 0.50	< 0.50	< 0.50	< 0.50	-	<0.5	-
Dichloroethene, trans-1,2-	µg/L	n/v	1.6[GH]	-	< 0.50	< 0.50	< 0.50	< 0.50	-	< 0.50	-	<0.5	-	< 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	-	<0.2	-	< 0.20	< 0.20	< 0.20	< 0.20	-	<0.2	-
Dichloropropene, 1,3- (sum of isomers cis + trans)	µg/L	n/v	0.5[s11-G] 0.5[s11-H]	-	< 0.50	< 0.50	< 0.50	< 0.50	-	< 0.50	-	<0.5	-	< 0.50	< 0.50	< 0.50	< 0.50	-	<0.5	-
Dichloropropene, cis-1,3-	µg/L	n/v	[s11-GH]	-	< 0.30	< 0.30	< 0.30	< 0.30	-	< 0.30	-	<0.3	-	< 0.30	< 0.30	< 0.30	< 0.30	-	<0.3	-
Dichloropropene, trans-1,3-	µg/L	n/v	[s11-GH]	-	< 0.40	< 0.40	< 0.40	< 0.40	-	< 0.40	-	<0.4	-	< 0.40	< 0.40	< 0.40	< 0.40	-	<0.4	-
Ethylene Dibromide (Dibromoethane, 1,2-)	µg/L	n/v	0.2[GH]	-	< 0.20	< 0.20	< 0.20	< 0.20	-	< 0.20	-	<0.2	-	< 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	-	< 1.0	< 1.0	< 1.0	< 1.0	-	<1	-
Methyl Ethyl Ketone (MEK)	µg/L	n/v	1800[GH]	-	< 10	< 10	< 10	< 10	-	< 10	-	<10	-	< 10	< 10	< 10	< 10	-	<10	-
Methyl Isobutyl Ketone (MIBK)	µg/L	n/v	640[GH]	-	< 5.0	< 5.0	< 5.0	< 5.0	-	< 5.0	-	<5	-	< 5.0	< 5.0	< 5.0	< 5.0	-	<5	-
Methyl tert-butyl ether (MTBE)	µg/L	n/v	15[GH]	-	< 0.50	< 0.50	< 0.50	< 0.50	-	< 0.50	-	<0.5	-	< 0.50	< 0.50	< 0.50	< 0.50	-	<0.5	-
Methylene Chloride (Dichloromethane)	µg/L	50[B]	26[G] 50[H]	-	< 2.0	< 2.0	< 2.0	< 2.0	-	< 2.0	-	<2	-	< 2.0	< 2.0	< 2.0	< 2.0	-	<2	-
Styrene	µg/L	n/v	5.4[GH]	-	< 0.50	< 0.50	< 0.50	< 0.50	-	< 0.50	-	<0.5	-	< 0.50	< 0.50	< 0.50	< 0.50	-	<0.5	-
Tetrachloroethane, 1,1,1,2-	µg/L	n/v	1.1[GH]	-	< 0.50	< 0.50	< 0.50	< 0.50	-	< 0.50	-	<0.5	-	< 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	-	<0.5	-	< 0.50	< 0.50	< 0.50	< 0.50	-	<0.5	-
Tetrachloroethene (PCE)	µg/L	30[B]	0.5[G] 1.6[H]	-	< 0.20	< 0.20	< 0.20	< 0.20	-	< 0.20	-	<0.2	-	< 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	-	<0.2	-	< 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	-	<0.5	-	< 0.50	< 0.50	< 0.50	< 0.50	-	<0.5	-
Trichloroethene (TCE)	µg/L	5[B]	0.5[G] 1.6[H]	-	< 0.20	< 0.20	< 0.20	< 0.20	-	< 0.20	-	<0.2	-	< 0.20	< 0.20	< 0.20	< 0.20	-	<0.2	-
Trichlorofluoromethane (Freon 11)	µg/L	n/v	150[GH]	-	< 0.50	< 0.50	< 0.50	< 0.50	-	< 0.50	-	<0.5	-	< 0.50	< 0.50	< 0.50	< 0.50	-	<0.5	-
Vinyl chloride	µg/L	2[B]	0.5[GH]	-	< 0.20	< 0.20	< 0.20	< 0.20	-	< 0.20	-	<0.2	-	< 0.20	< 0.20	< 0.20	< 0.20	-	<0.2	-

See notes on last page

Summary of Groundwater Analytical Results - Monitoring Wells
Clarington Tranformer Station
Hydro One Networks Inc.

Sample Location				MW3-13-S											MW4-13-D				
Sample Date				13-Dec-13	19-Mar-14	8-May-14	14-Aug-14	1-Oct-14	20-Nov-14	20-Nov-14	27-Nov-14	27-Nov-14	22-Dec-14	8-Apr-15	8-Apr-15	19-Mar-14	8-May-14	1-Oct-14	22-Dec-14	22-Dec-14
Sample ID				CLARS1213TWG-160960745-20131213-JK6	MW3-13-S	MW3-13-S	MW3-13-S	WG-160900764-20141001-JK1	WG-160900764-20141120-CD01	WG-160900764-20141120-CD01A	WG-160900764-20141127-RD09	WG-160900764-20141127-RD09A	WG-160900764-20141222-MF02	WG-160900764-20150408-RD03	WG-160900764-20150408-RD03A	MW4-13-D	MW4-13-D	WG-160900764-20141001-JK5	WG-160900764-20141222-MF01	WG-160900764-20141222-MF01A
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	B476124	B4E7727	B4I4645	B4M0745	B4M0745	B4M5208	B4M5208	B4O2436	B561683	B561683	B443695	B476124	B4I4645	B4O2426	B4O2426
Laboratory Sample ID				UH4006	VG2318	VV5727	XD5194	XV9677	YO3440	YO3441	YQ4966	YQ4967	YY7680	ABP943	ABP944	VG2317	VV5729	XV9681	YY7641	YY7642
Filtered				Lab Filtered	Lab Filtered	Lab Filtered	Lab Filtered	Lab Filtered	-	Lab Filtered	Field Filtered	Lab Filtered	-	Field Filtered	Lab Filtered	Lab Filtered	Lab Filtered	Lab Filtered	-	Lab Filtered
Sample Type	Units	ODWS	Ontario SCS	Metals	Metals	Metals	Metals	Metals			Metals			Metals		Metals	Metals	Metals		
General Chemistry																				
Acidity	mg/L	n/v	n/v	-	13	< 10	14	10	-	-	-	-	-	14	-	< 10	< 10	< 20	-	-
Alkalinity, Bicarbonate (as CaCO3)	mg/L	n/v	n/v	210	200	220	220	230	-	-	260	-	-	230	-	120	110	130	150	-
Alkalinity, Carbonate (as CaCO3)	mg/L	n/v	n/v	< 1.0	1.7	2.5	2.3	2.4	-	-	2.2	-	-	1.9	-	1.2	1.1	1.1	1.9	-
Alkalinity, Total (as CaCO3)	mg/L	30-500[E]	n/v	210	200	220	220	230	-	-	260	-	-	230	-	130	110	130	150	-
Ammonia (as N)	mg/L	n/v	n/v	0.23	0.31	0.34	0.24	0.18	-	-	< 0.050	-	-	<0.05	-	0.59	0.42	0.25	-	-
Anion Sum	meq/L	n/v	n/v	11.1	8.21	7.26	7.66	7.53	-	-	7.73	-	-	7.62	-	5.67	5.63	7.97	9.52	-
Cation Sum	meq/L	n/v	n/v	11.1	7.67	7.75	7.68	7.49	-	-	7.95	-	-	7.88	-	5.09	5.84	7.92	9.84	-
Chloride	mg/L	250[D]	790[GH]	32	22	19	18	16	-	-	16	-	-	16	-	23	23	19	16	-
Cyanide (Free)	µg/L	200[B]	52[GH]	-	< 2	< 2	< 2	< 2	-	-	-	-	-	<2	-	< 2	< 2	< 2	-	-
Dissolved Organic Carbon (DOC)	mg/L	5[D]	n/v	4.1	2.9	1.6	1.2	1.3	-	-	3.6	-	-	1.8	-	2.7	2.4	2.5	-	-
Electrical Conductivity, Lab	µmhos/cm	n/v	n/a[GH]	1100	760	700	720	710	-	-	700	-	-	720	-	540	580	790	920	-
Fluoride	mg/L	1.5_{h}[B]	n/v	-	0.29	0.30	0.29	0.30	-	-	-	-	-	0.29	-	0.75	0.70	0.56	-	-
Hardness (as CaCO3)	mg/L	80-100[E]	n/v	**470[E]**	**310[E]**	**330[E]**	**330[E]**	**320[E]**	-	-	**360[E]**	-	-	**350[E]**	-	**120[E]**	**130[E]**	**200[E]**	**280[E]**	-
Ion Balance	%	n/v	n/v	0.210	3.36	3.26	0.160	0.230	-	-	1.38	-	-	1.68	-	5.39	1.78	0.320	1.66	-
Langelier Index (at 20 C)	none	n/v	n/v	0.557	0.620	0.788	0.739	0.736	-	-	0.808	-	-	0.703	-	0.134	0.160	0.274	0.643	-
Langelier Index (at 4 C)	none	n/v	n/v	0.310	0.372	0.540	0.492	0.488	-	-	0.560	-	-	0.454	-	-0.115	-0.0890	0.0260	0.396	-
Nitrate (as N)	mg/L	10.0_{d}[B]	n/v	5.56	1.35	3.95	2.90	4.03	-	-	5.42	-	-	3.59	-	< 0.10	0.28	0.34	< 0.10	-
Nitrate + Nitrite (as N)	mg/L	10.0_{d}[B]	n/v	5.73	2.06	4.06	3.11	4.08	-	-	5.42	-	-	3.63	-	< 0.10	0.29	0.34	< 0.10	-
Nitrite (as N)	mg/L	1.0_{d}[B]	n/v	0.163	0.714	0.118	0.211	0.058	-	-	< 0.010	-	-	0.035	-	< 0.010	0.017	< 0.010	0.011	-
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	< 0.010	-
pH	S.U.	6.5-8.5[E]	n/v	7.68	7.97	8.10	8.05	8.05	-	-	7.96	-	-	7.93	-	8.00	8.02	7.96	8.12	-
Saturation pH (at 20 C)	none	n/v	n/v	7.13	7.35	7.31	7.32	7.31	-	-	7.15	-	-	7.23	-	7.87	7.86	7.68	7.47	-
Saturation pH (at 4 C)	none	n/v	n/v	7.37	7.60	7.56	7.56	7.56	-	-	7.40	-	-	7.48	-	8.12	8.11	7.93	7.72	-
Sulfate	mg/L	500_{h}[D]	n/v	270	170	100	120	100	-	-	78	-	-	110	-	120	130	230	290	-
Total Dissolved Solids	mg/L	500[D]	n/v	-	478	472	**502[D]**	**526[D]**	-	-	-	-	-	442	-	370	346	**616[D]**	-	-
Total Dissolved Solids (Calculated)	mg/L	500[D]	n/v	-	-	-	-	-	-	-	430	-	-	430	-	-	-	-	**600[D]**	-
Total Organic Carbon	mg/L	n/v	n/v	-	3.9	5.2	3.8	2.1	-	-	-	-	-	2.0	-	7.1	10	34	-	-
Total Suspended Solids	mg/L	n/v	n/v	-	2200	690	770	640	87	-	< 10	-	-	<10	-	29000	7100	26000	870	-
Turbidity, Lab	ntu	5_{L}[D,E]	n/v	-	**110[D]**	**160[D]**	**310[D]**	**92[D]**	**82[D]**	-	1.9	-	-	3.4	-	**220[D]**	**1900[D]**	**34000[D]**	**840[D]**	-
BTEX and Petroleum Hydrocarbons																				
Benzene	µg/L	5[B]	0.5^{G} 5^{H}	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	-	< 0.20	-	-	<0.2	-	0.22	< 0.20	< 0.20	-	-
Toluene	µg/L	24[D]	24^{G} 22^{H}	0.87	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	-	< 0.20	-	-	<0.2	-	0.45	< 0.20	< 0.20	-	-
Ethylbenzene	µg/L	2.4[D]	2.4[GH]	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	-	< 0.20	-	-	<0.2	-	0.26	< 0.20	0.20	-	-
Xylene, m & p-	µg/L	300_{x1}[D]	$_{x1}$[GH]	< 0.40	< 0.20	< 0.20	< 0.20	< 0.40	< 0.20	-	< 0.20	-	-	<0.2	-	0.70	< 0.20	0.68	-	-
Xylene, o-	µg/L	300_{x1}[D]	$_{x1}$[GH]	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	-	< 0.20	-	-	<0.2	-	0.31	< 0.20	0.27	-	-
Xylenes, Total	µg/L	300[D]	72_{x1}[G] 300_{x1}[H]	< 0.40	< 0.20	< 0.20	< 0.20	< 0.40	< 0.20	-	< 0.20	-	-	<0.2	-	1.0	< 0.20	0.95	-	-
PHC F1 (C6-C10 range)	µg/L	n/v	420_{c7}[G] 420_{c7}[H]	< 25	< 25	< 25	< 25	< 25	-	-	-	-	-	<25	-	< 25	< 25	< 25	-	-
PHC F1 (C6-C10 range) minus BTEX	µg/L	n/v	420_{c7}[G] 420_{c7}[H]	< 25	< 25	< 25	< 25	< 25	-	-	-	-	-	<25	-	< 25	< 25	< 25	-	-
PHC F2 (>C10-C16 range)	µg/L	n/v	150_{c15}[G] 150_{c15}[H]	< 100	< 100	< 100	< 100	< 100	-	-	-	-	-	<100	-	< 100	< 100	< 100	-	-
PHC F3 (>C16-C34 range)	µg/L	n/v	500_{c8}[G] 500_{c8}[H]	< 200	< 200	< 200	< 200	< 200	-	-	-	-	-	<200	-	< 200	< 200	< 200	-	-
PHC F4 (>C34-C50 range)	µg/L	n/v	500_{c10}[G] 500_{c10}[H]	< 200	< 200	< 200	< 200	< 200	-	-	-	-	-	<200	-	< 200	< 200	< 200	-	-
Chromatogram to baseline at nC50	none	n/v	n/v	YES	YES	YES	YES	YES	-	-	-	-	-	YES	-	YES	YES	YES	-	-

Summary of Groundwater Analytical Results - Monitoring Wells
Clarington Tranformer Station
Hydro One Networks Inc.

Sample Location				MW3-13-S												MW4-13-D				
Sample Date				**13-Dec-13**	**19-Mar-14**	**8-May-14**	**14-Aug-14**	**1-Oct-14**	**20-Nov-14**	**20-Nov-14**	**27-Nov-14**	**27-Nov-14**	**22-Dec-14**	**8-Apr-15**	**8-Apr-15**	**19-Mar-14**	**8-May-14**	**1-Oct-14**	**22-Dec-14**	**22-Dec-14**
Sample ID				**CLARS1213TWG-160960745-20131213-JK6**	**MW3-13-S**	**MW3-13-S**	**MW3-13-S**	**WG-160900764-20141001-JK1**	**WG-160900764-20141120-CD01**	**WG-160900764-20141120-CD01A**	**WG-160900764-20141127-RD09**	**WG-160900764-20141127-RD09A**	**WG-160900764-20141222-MF02**	**WG-160900764-20150408-RD03**	**WG-160900764-20150408-RD03A**	**MW4-13-D**	**MW4-13-D**	**WG-160900764-20141001-JK5**	**WG-160900764-20141222-MF01**	**WG-160900764-20141222-MF01A**
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**	**B476124**	**B4E7727**	**B4I4645**	**B4M0745**	**B4M0745**	**B4M5208**	**B4M5208**	**B4O2436**	**B561683**	**B561683**	**B443695**	**B476124**	**B4I4645**	**B4O2426**	**B4O2426**
Laboratory Sample ID				**UH4006**	**VG2318**	**VV5727**	**XD5194**	**XV9677**	**YO3440**	**YO3441**	**YQ4966**	**YQ4967**	**YY7680**	**ABP943**	**ABP944**	**VG2317**	**VV5729**	**XV9681**	**YY7641**	**YY7642**
Filtered				**Lab Filtered**	**Lab Filtered**	**Lab Filtered**	**Lab Filtered**	**Lab Filtered**	-	**Lab Filtered**	**Field Filtered**	**Lab Filtered**	-	**Field Filtered**	**Lab Filtered**	**Lab Filtered**	**Lab Filtered**	**Lab Filtered**	-	**Lab Filtered**
Sample Type	**Units**	**ODWS**	**Ontario SCS**	**Metals**	**Metals**	**Metals**	**Metals**	**Metals**			**Metals**			**Metals**		**Metals**	**Metals**	**Metals**		
Metals																				
Aluminum	µg/L	100[E]	n/v	< 5.0	7.7	5.5	6.1	7.8	-	-	< 5.0	5.4	-	<5	-	13	15	16	-	10
Antimony	µg/L	6[C]	6[GH]	< 0.50	< 0.50	< 0.50	< 0.50	0.91	-	-	< 0.50	< 0.50	-	<0.5	-	< 0.50	< 0.50	0.93	-	< 0.5
Arsenic	µg/L	25[C]	25[GH]	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	-	-	< 1.0	< 1.0	-	<1	-	< 1.0	< 1.0	< 1.0	-	< 1
Barium	µg/L	1000[B]	1000[GH]	72	55	51	54	56	-	-	74	89	-	54	-	61	57	99	-	81
Beryllium	µg/L	n/v	4[GH]	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	-	-	< 0.50	< 0.50	-	<0.5	-	< 0.50	< 0.50	< 0.50	-	< 0.5
Boron	µg/L	5000[C]	5000[GH]	110	130	82	110	98	-	-	39	42	-	60	-	330	340	440	-	510
Cadmium	µg/L	5[B]	2.1[GH]	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	-	-	< 0.10	< 0.10	-	<0.1	-	< 0.10	< 0.10	< 0.10	-	< 0.1
Calcium	µg/L	n/v	n/v	110000	66000	65000	65000	63000	-	-	77000	78000	-	72000	-	30000	34000	49000	-	67000
Cesium	µg/L	n/v	n/v	< 0.20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chromium (Hexavalent)	µg/L	n/v	25[GH]	-	< 1.0	< 0.50	< 2.5	< 0.50	-	-	-	-	-	<0.5	-	< 0.50	< 0.50	-	-	-
Chromium (Total)	µg/L	50[B]	50[GH]	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	-	-	< 5.0	< 5.0	-	<5	-	< 5.0	< 5.0	< 5.0	-	< 5
Cobalt	µg/L	n/v	3.8[GH]	0.83	0.55	< 0.50	< 0.50	< 0.50	-	-	< 0.50	< 0.50	-	<0.5	-	< 0.50	< 0.50	< 0.50	-	< 0.5
Copper	µg/L	1000[D]	69[GH]	1.1	< 1.0	< 1.0	< 1.0	< 1.0	-	-	1.8	< 1.0	-	<1	-	< 1.0	< 1.0	1.1	-	< 1
Iron	µg/L	300[D]	n/v	< 100	< 100	< 100	< 100	< 100	-	-	< 100	< 100	-	<100	-	< 100	< 100	< 100	-	< 100
Lead	µg/L	10[B]	10[GH]	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	-	-	< 0.50	< 0.50	-	<0.5	-	< 0.50	< 0.50	< 0.50	-	< 0.5
Magnesium	µg/L	n/v	n/v	45000	36000	41000	40000	40000	-	-	40000	41000	-	41000	-	11000	11000	20000	-	27000
Manganese	µg/L	50[D]	n/v	**57[D]**	30	19	14	7.6	-	-	6.3	5.8	-	11	-	14	12	4.2	-	5.3
Mercury	µg/L	1[B]	0.1[G] 0.29[H]	-	0.00015	< 0.10	< 0.10	< 0.1	-	-	-	-	-	<0.1	-	***< 1.5 DB***	< 0.10	-	-	-
Molybdenum	µg/L	n/v	70[GH]	19	23	16	18	14	-	-	3.7	4.1	-	7.6	-	**72[GH]**	**76[GH]**	**83[GH]**	-	**81[GH]**
Nickel	µg/L	n/v	100[GH]	1.5	1.5	< 1.0	< 1.0	1.6	-	-	1.9	< 1.0	-	<1	-	1.2	1.0	1.4	-	< 1
Phosphorus	µg/L	n/v	n/v	< 100	< 100	< 100	< 100	< 100	-	-	< 100	< 100	-	<100	-	< 100	< 100	< 100	-	< 100
Potassium	µg/L	n/v	n/v	18000	10000	7600	7600	6900	-	-	4700	4900	-	5700	-	8300	7400	8200	-	7700
Rubidium	µg/L	n/v	n/v	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Selenium	µg/L	10[B]	10[GH]	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	-	-	< 2.0	< 2.0	-	<2	-	< 2.0	< 2.0	< 2.0	-	< 2
Silicon	µg/L	n/v	n/v	5200	4900	5900	6000	6200	-	-	7800	8000	-	6000	-	3300	3700	3000	-	3900
Silver	µg/L	n/v	1.2[GH]	< 0.10	< 0.10	0.20	< 0.10	< 0.10	-	-	< 0.10	< 0.10	-	<0.1	-	< 0.10	< 0.10	< 0.10	-	< 0.1
Sodium	µg/L	200000[D] 20000[F]	490000[GH]	**28000[F]**	**26000[F]**	20000	**22000[F]**	20000	-	-	16000	15000	-	18000	-	**57000[F]**	**68000[F]**	**83000[F]**	-	**94000[F]**
Strontium	µg/L	n/v	n/v	900	750	810	820	850	-	-	620	650	-	780	-	440	520	870	-	1200
Thallium	µg/L	n/v	2[GH]	0.060	< 0.050	< 0.050	< 0.050	< 0.050	-	-	< 0.050	< 0.050	-	<0.05	-	< 0.050	< 0.050	< 0.050	-	< 0.05
Titanium	µg/L	n/v	n/v	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	-	-	< 5.0	< 5.0	-	<5	-	< 5.0	< 5.0	< 5.0	-	< 5
Uranium	µg/L	20[B]	20[GH]	6.0	6.1	4.1	4.6	4.6	-	-	3.6	3.8	-	4	-	2.3	1.2	4.2	-	2.6
Vanadium	µg/L	n/v	6.2[GH]	0.82	< 0.50	0.69	0.63	0.77	-	-	0.60	0.62	-	0.52	-	< 0.50	0.55	0.76	-	0.56
Zinc	µg/L	5000[D]	890[GH]	< 5.0	15	< 5.0	< 5.0	< 5.0	-	-	7.5	< 5.0	-	<5	-	< 5.0	< 5.0	< 5.0	-	< 5
Zirconium	µg/L	n/v	n/v	< 1.0	-	< 1.0	-	< 1.0	-	-	< 1.0	< 1.0	-	<1	-	-	< 1.0	< 1.0	-	< 1
Polychlorinated Biphenyls																				
Aroclor 1242	µg/L	n/v	0.2_{x14}[G] 0.2_{x14}[H]	-	< 0.05	< 0.05	< 0.05	< 0.05	-	-	-	-	-	<0.05	-	< 0.05	***< 0.5***	***< 0.5***	-	-
Aroclor 1248	µg/L	n/v	0.2_{x14}[G] 0.2_{x14}[H]	-	< 0.05	< 0.05	< 0.05	< 0.05	-	-	-	-	-	<0.05	-	< 0.05	***< 0.5***	***< 0.5***	-	-
Aroclor 1254	µg/L	n/v	0.2_{x14}[G] 0.2_{x14}[H]	-	< 0.05	< 0.05	< 0.05	< 0.05	-	-	-	-	-	<0.05	-	< 0.05	***< 0.5***	***< 0.5***	-	-
Aroclor 1260	µg/L	n/v	0.2_{x14}[G] 0.2_{x14}[H]	-	< 0.05	< 0.05	< 0.05	< 0.05	-	-	-	-	-	<0.05	-	< 0.05	***< 0.5***	***< 0.5***	-	-
Polychlorinated Biphenyls (PCBs)	µg/L	3[C]	0.2_{x14}[G] 0.2_{x14}[H]	-	< 0.05	< 0.05	< 0.05	< 0.05	-	-	-	-	-	<0.05	-	< 0.05	***< 0.5***	***< 0.5***	-	-

Summary of Groundwater Analytical Results - Monitoring Wells
Clarington Tranformer Station
Hydro One Networks Inc.

Sample Location				MW3-13-S												MW4-13-D				
Sample Date				**13-Dec-13**	**19-Mar-14**	**8-May-14**	**14-Aug-14**	**1-Oct-14**	**20-Nov-14**	**20-Nov-14**	**27-Nov-14**	**27-Nov-14**	**22-Dec-14**	**8-Apr-15**	**8-Apr-15**	**19-Mar-14**	**8-May-14**	**1-Oct-14**	**22-Dec-14**	**22-Dec-14**
Sample ID				**CLARS1213TWG-160960745-20131213-JK6**	**MW3-13-S**	**MW3-13-S**	**MW3-13-S**	**WG-160900764-20141001-JK1**	**WG-160900764-20141120-CD01**	**WG-160900764-20141120-CD01A**	**WG-160900764-20141127-RD09**	**WG-160900764-20141127-RD09A**	**WG-160900764-20141222-MF02**	**WG-160900764-20150408-RD03**	**WG-160900764-20150408-RD03A**	**MW4-13-D**	**MW4-13-D**	**WG-160900764-20141001-JK5**	**WG-160900764-20141222-MF01**	**WG-160900764-20141222-MF01A**
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**	**B476124**	**B4E7727**	**B4I4645**	**B4M0745**	**B4M0745**	**B4M5208**	**B4M5208**	**B4O2436**	**B561683**	**B561683**	**B443695**	**B476124**	**B4I4645**	**B4O2426**	**B4O2426**
Laboratory Sample ID				**UH4006**	**VG2318**	**VV5727**	**XD5194**	**XV9677**	**YO3440**	**YO3441**	**YQ4966**	**YQ4967**	**YY7680**	**ABP943**	**ABP944**	**VG2317**	**VV5729**	**XV9681**	**YY7641**	**YY7642**
Filtered				**Lab Filtered Metals**	**Lab Filtered Metals**	**Lab Filtered Metals**	**Lab Filtered Metals**	**Lab Filtered Metals**	**-**	**Lab Filtered**	**Field Filtered Metals**	**Lab Filtered**	**-**	**Field Filtered Metals**	**Lab Filtered**	**Lab Filtered Metals**	**Lab Filtered Metals**	**Lab Filtered Metals**	**-**	**Lab Filtered**
Sample Type	**Units**	**ODWS**	**Ontario SCS**																	
Semi - Volatile Organic Compounds																				
Phthalates																				
Bis(2-Ethylhexyl)phthalate (DEHP)	µg/L	n/v	10[GH]	-	**11[GH]**	3	2	4	2	< 1	5	< 1	-	<1	<1	**18[GH]**	**33[GH]**	**36[GH]**	9	< 1
Diethyl Phthalate	µg/L	n/v	30[GH]	-	0.6	< 0.1	0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	<0.1	<0.1	0.6	0.1	< 0.5	< 0.1	< 0.1
Dimethyl Phthalate	µg/L	n/v	30[GH]	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	<0.1	<0.1	< 0.1	< 0.1	< 0.5	< 0.1	< 0.1
Polycyclic Aromatic Hydrocarbons																				
Acenaphthene	µg/L	n/v	4.1[GH]	-	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.02	<0.2	<0.2	< 0.2	< 0.2	< 1	< 0.2	< 0.2
Acenaphthylene	µg/L	n/v	1[GH]	-	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.02	<0.2	<0.2	< 0.2	< 0.2	< 1	< 0.2	< 0.2
Anthracene	µg/L	n/v	1[GH]	-	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.02	<0.05	<0.05	0.10	0.08	< 0.3	< 0.05	< 0.05
Benzo(a)anthracene	µg/L	n/v	1[GH]	-	0.13	0.08	< 0.05	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.02	<0.05	<0.05	0.16	0.17	< 0.3	< 0.05	< 0.05
Benzo(a)pyrene	µg/L	0.01[B]	0.01[GH]	-	**0.08[BGH]**	**0.05[BGH]**	< 0.01	**0.04[BGH]**	**0.02[BGH]**	< 0.01	**0.02[BGH]**	< 0.01	< 0.02	<0.01	<0.01	**0.06[BGH]**	**0.07[BGH]**	***< 0.05***	< 0.01	< 0.01
Benzo(b/j)fluoranthene	µg/L	n/v	0.1[G] 0.1[H]	-	**0.13[GH]**	0.07	< 0.05	0.06	< 0.05	< 0.05	< 0.05	< 0.05	< 0.02	<0.05	<0.05	**0.19[GH]**	**0.18[GH]**	***< 0.3***	< 0.05	< 0.05
Benzo(g,h,i)perylene	µg/L	n/v	0.2[GH]	-	< 0.1	< 0.1 MI	< 0.05	< 0.1 MI	< 0.05	< 0.05	< 0.05	< 0.05	< 0.02	<0.05	<0.05	< 0.1 MI	< 0.1	***< 0.3***	< 0.05	< 0.05
Benzo(k)fluoranthene	µg/L	n/v	0.1[GH]	-	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.02	<0.05	<0.05	< 0.05	< 0.05	***< 0.3***	< 0.05	< 0.05
Chrysene	µg/L	n/v	0.1[GH]	-	**0.12[GH]**	0.08	< 0.05	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.02	<0.05	<0.05	**0.22[GH]**	**0.19[GH]**	***< 0.3***	< 0.05	< 0.05
Dibenzo(a,h)anthracene	µg/L	n/v	0.2[GH]	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.02	<0.1	<0.1	< 0.1	< 0.1	***< 0.5***	< 0.1	< 0.1
Fluoranthene	µg/L	n/v	0.41[GH]	-	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.02	<0.2	<0.2	**1.4[GH]**	**1.4[GH]**	***< 1***	< 0.2	< 0.2
Fluorene	µg/L	n/v	120[GH]	-	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.02	<0.2	<0.2	< 0.2	< 0.2	< 1	< 0.2	< 0.2
Indeno(1,2,3-cd)pyrene	µg/L	n/v	0.2[GH]	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.02	<0.1	<0.1	< 0.1	< 0.1	***< 0.5***	< 0.1	< 0.1
Methylnaphthalene (Total)	µg/L	n/v	3.2[G] 3.2[H]	-	< 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	< 0.28	< 0.28
Methylnaphthalene, 1-	µg/L	n/v	[GH]	-	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.02	<0.2	<0.2	< 0.2	< 0.2	< 1	< 0.2	< 0.2
Methylnaphthalene, 2-	µg/L	n/v	[GH]	-	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.02	<0.2	<0.2	0.2	0.2	< 1	< 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	< 0.02	<0.2	<0.2	< 0.2	< 0.2	< 1	< 0.2	< 0.2
Phenanthrene	µg/L	n/v	1GH	-	0.2	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.02	<0.1	<0.1	**1.1GH**	**1.2GH**	< 0.5	< 0.1	< 0.1
Pyrene	µg/L	n/v	4.1[GH]	-	0.26	0.15	0.20	0.13	< 0.05	< 0.05	< 0.05	< 0.05	< 0.02	<0.05	<0.05	1.8	2.0	1.0	< 0.05	< 0.05
Remaining Semi - Volatile Organic Compounds																				
Biphenyl, 1,1'- (Biphenyl)	µg/L	n/v	0.5[GH]	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	<0.1	<0.1	< 0.1	< 0.1	< 0.5	< 0.1	< 0.1
Bis(2-Chloroethyl)ether	µg/L	n/v	5[GH]	-	< 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	< 0.5	< 0.5
Bis(2-Chloroisopropyl)ether	µg/L	n/v	120[GH]	-	< 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	< 0.5	< 0.5
Chloroaniline, 4-	µg/L	n/v	10[GH]	-	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	-	<1	<1	< 1	< 1	< 5	< 1	< 1
Chlorophenol, 2- (ortho-Chlorophenol)	µg/L	n/v	8.9[GH]	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	<0.1	<0.1	< 0.1	< 0.1	< 0.5	< 0.1	< 0.1
Dichlorobenzidine, 3,3'-	µg/L	n/v	0.5[GH]	-	< 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***	< 0.5	< 0.5
Dichlorophenol, 2,4-	µg/L	900[B] 0.3[D]	20[GH]	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	<0.1	<0.1	< 0.1	< 0.1	***< 0.5***	< 0.1	< 0.1
Dimethylphenol, 2,4-	µg/L	n/v	59[GH]	-	< 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	< 0.5	< 0.5
Dinitrophenol, 2,4-	µg/L	n/v	10[GH]	-	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	-	<2	<2	< 2	< 2	< 10	< 2	< 2
Dinitrotoluene, 2,4-	µg/L	n/v	5[I13] 5[I13]	-	< 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	< 0.3	< 0.3
Dinitrotoluene, 2,6-	µg/L	n/v	5[I13] 5[I13]	-	< 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	< 0.3	< 0.3
Pentachlorophenol	µg/L	60[B] 30[D]	30[GH]	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	<0.1	<0.1	< 0.1	< 0.1	< 0.5	< 0.1	< 0.1
Phenol	µg/L	n/v	890[GH]	-	< 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	< 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	< 0.1	< 0.1
Trichlorophenol, 2,4,5-	µg/L	n/v	8.9[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	< 0.2	< 0.2
Trichlorophenol, 2,4,6-	µg/L	5[B] 2[D]	2[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	< 0.2	< 0.2

Summary of Groundwater Analytical Results - Monitoring Wells
Clarington Tranformer Station
Hydro One Networks Inc.

Sample Location				MW3-13-S												MW4-13-D				
Sample Date				13-Dec-13	19-Mar-14	8-May-14	14-Aug-14	1-Oct-14	20-Nov-14	20-Nov-14	27-Nov-14	27-Nov-14	22-Dec-14	8-Apr-15	8-Apr-15	19-Mar-14	8-May-14	1-Oct-14	22-Dec-14	22-Dec-14
Sample ID				CLARS1213TWG-160960745-20131213-JK6	MW3-13-S	MW3-13-S	MW3-13-S	WG-160900764-20141001-JK1	WG-160900764-20141120-CD01	WG-160900764-20141120-CD01A	WG-160900764-20141127-RD09	WG-160900764-20141127-RD09A	WG-160900764-20141222-MF02	WG-160900764-20150408-RD03	WG-160900764-20150408-RD03A	MW4-13-D	MW4-13-D	WG-160900764-20141001-JK5	WG-160900764-20141222-MF01	WG-160900764-20141222-MF01A
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	B476124	B4E7727	B4I4645	B4M0745	B4M0745	B4M5208	B4M5208	B4O2436	B561683	B561683	B443695	B476124	B4I4645	B4O2426	B4O2426
Laboratory Sample ID				UH4006	VG2318	VV5727	XD5194	XV9677	YO3440	YO3441	YQ4966	YQ4967	YY7680	ABP943	ABP944	VG2317	VV5729	XV9681	YY7641	YY7642
Filtered				Lab Filtered	Lab Filtered	Lab Filtered	Lab Filtered	Lab Filtered	-	Lab Filtered	Field Filtered	Lab Filtered	-	Field Filtered	Lab Filtered	Lab Filtered	Lab Filtered	Lab Filtered	-	Lab Filtered
Sample Type	Units	ODWS	Ontario SCS	Metals	Metals	Metals	Metals	Metals			Metals			Metals		Metals	Metals	Metals		
Volatile Organic Compounds																				
Acetone	µg/L	n/v	2700[GH]	-	< 10	< 10	< 10	< 10	< 10	-	< 10	-	-	<10	-	< 10	< 10	< 10	-	-
Bromodichloromethane	µg/L	n/v	16[GH]	-	< 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[GH]	-	< 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	5[B]	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[B] 30$_t$[D]	30[GH]	-	< 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[GH]	-	< 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[B] 3$_t$[D]	3[GH]	-	< 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[GH]	-	< 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[B] 1$_t$[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[GH]	-	< 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[GH]	-	< 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[C]	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[B]	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[GH]	-	< 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[GH]	-	< 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$_{s11}$[G] 0.5$_{s11}$[H]	-	< 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[GH]	-	< 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)	µg/L	n/v	1800[GH]	-	< 10	< 10	< 10	< 10	< 10	-	< 10	-	-	<10	-	< 10	< 10	< 10	-	-
Methyl Isobutyl Ketone (MIBK)	µg/L	n/v	640[GH]	-	< 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[GH]	-	< 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[B]	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[GH]	-	< 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[GH]	-	< 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[B]	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[B]	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[GH]	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	-	< 0.50	-	-	<0.5	-	< 0.50	< 0.50	< 0.50	-	-
Vinyl chloride	µg/L	2[B]	0.5[GH]	-	< 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

Summary of Groundwater Analytical Results - Monitoring Wells
Clarington Tranformer Station
Hydro One Networks Inc.

Sample Location										MW4-13-S								MW4-15D	
Sample Date				13-Dec-13	7-May-14	7-May-14	15-Aug-14	15-Aug-14	1-Oct-14	1-Oct-14	27-Nov-14	27-Nov-14	27-Nov-14	27-Nov-14	14-May-15	14-May-15	7-Apr-15	7-Apr-15
Sample ID				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	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-160900764-20150407-RD01	WG-160900764-20150407-RD01A
Sampling Company				STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	Lab Filtered	STANTEC	STANTEC
Laboratory				MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	STANTEC	MAXX	MAXX
Laboratory Work Order				B3L6734	B475182	B475182	B4E7727	B4E7727	B4I4645	B4I4645	B4M5208	B4M5208	B4M5208	B4M5208	B590648	MAXX	B561683	B561683
Laboratory Sample ID				UH4007	VV0855	VV0856	XD5199	XD5200	XV9679	XV9680	YQ4962	YQ4964	YQ4963	YQ4965	AGX650	B590648	ABP939	ABP940
Filtered				Lab Filtered Metals	Lab Filtered Metals	Lab Filtered Metals Field Duplicate	Lab Filtered Metals	Lab Filtered Metals Field Duplicate	Lab Filtered Metals	Lab Filtered Metals Field Duplicate	Field Filtered Metals	Field Filtered Metals Field Duplicate	Lab Filtered	Lab Filtered Field Duplicate	Field Filtered Metals	AGX651	Field Filtered Metals	Lab Filtered
Sample Type	**Units**	**ODWS**	**Ontario SCS**															
General Chemistry																		
Acidity	mg/L	n/v	n/v	-	75	86	11	131	135	146	-	-	-	-	59	-	<10	-
Alkalinity, Bicarbonate (as CaCO3)	mg/L	n/v	n/v	240	230	230	340	320	350	350	320	320	-	-	330	-	150	-
Alkalinity, Carbonate (as CaCO3)	mg/L	n/v	n/v	1.1	1.8	2.0	1.7	2.2	1.7	1.7	1.5	1.5	-	-	<1.0	-	1.2	-
Alkalinity, Total (as CaCO3)	mg/L	30-500[E]	n/v	240	230	240	340	320	350	350	330	330	-	-	330	-	150	-
Ammonia (as N)	mg/L	n/v	n/v	0.18	0.11	0.17	0.062	< 0.050	0.070	0.095	< 0.050	< 0.050	-	-	0.057	-	<0.05	-
Anion Sum	meq/L	n/v	n/v	5.85	5.39	5.57	7.22	6.97	7.45	7.48	7.88	7.88	-	-	8.49	-	6.31	-
Cation Sum	meq/L	n/v	n/v	5.94	42.8	43.6	7.80	6.66	7.95	7.67	7.98	7.84	-	-	8.93	-	6.20	-
Chloride	mg/L	250[D]	790[GH]	8	6	6	3	4	4	4	9	9	-	-	34	-	11	-
Cyanide (Free)	µg/L	200[B]	52[GH]	-	< 2	< 2	< 2	< 2	< 2	< 2	-	-	-	-	<2	-	<2	-
Dissolved Organic Carbon (DOC)	mg/L	5[D]	n/v	1.6	1.9	2.0	1.9	1.9	2.2	2.2	2.8	2.6	-	-	1.7	-	**6.3[D]**	-
Electrical Conductivity, Lab	µmhos/cm	n/v	n/a[GH]	560	500	500	650	610	670	680	720	720	-	-	790	-	630	-
Fluoride	mg/L	1.5_{h}[B]	n/v	-	0.14	0.14	0.11	0.15	0.10	0.11	-	-	-	-	0.11	-	0.62	-
Hardness (as CaCO3)	mg/L	80-100[E]	n/v	**280[E]**	**2000[E]**	**2100[E]**	**380[E]**	**320[E]**	**390[E]**	**370[E]**	**390[E]**	**380[E]**	-	-	**420[E]**	-	**120[E]**	-
Ion Balance	%	n/v	n/v	0.760	77.6	77.3	3.85	2.24	3.25	1.27	0.640	0.270	-	-	2.50	-	0.890	-
Langelier Index (at 20 C)	none	n/v	n/v	0.601	1.74	1.80	0.916	0.918	0.919	0.921	0.883	0.885	-	-	0.478	-	0.102	-
Langelier Index (at 4 C)	none	n/v	n/v	0.352	1.49	1.55	0.667	0.670	0.671	0.673	0.634	0.637	-	-	0.230	-	-0.147	-
Nitrate (as N)	mg/L	10.0_{d}[B]	n/v	4.81	3.84	3.84	0.29	0.27	0.31	0.31	< 0.10	< 0.10	-	-	0.42	-	<0.1	-
Nitrate + Nitrite (as N)	mg/L	10.0_{d}[B]	n/v	4.94	3.86	3.86	0.30	0.29	0.31	0.31	< 0.10	< 0.10	-	-	0.42	-	<0.1	-
Nitrite (as N)	mg/L	1.0_{d}[B]	n/v	0.123	0.018	0.019	0.010	0.018	< 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	< 0.010	-	-	<0.010	-	<0.01	-
pH	S.U.	6.5-8.5[E]	n/v	7.69	7.94	7.95	7.73	7.86	7.70	7.72	7.69	7.70	-	-	7.29	-	7.94	-
Saturation pH (at 20 C)	none	n/v	n/v	7.09	6.20	6.15	6.81	6.94	6.78	6.80	6.81	6.82	-	-	6.81	-	7.84	-
Saturation pH (at 4 C)	none	n/v	n/v	7.34	6.45	6.40	7.06	7.19	7.03	7.05	7.06	7.07	-	-	7.06	-	8.09	-
Sulfate	mg/L	500_{h}[D]	n/v	26	17	18	16	19	13	14	54	53	-	-	41	-	150	-
Total Dissolved Solids	mg/L	500[D]	n/v	-	368	286	416	440	472	460	-	-	-	-	**526[D]**	-	424	-
Total Dissolved Solids (Calculated)	mg/L	500[D]	n/v	-	-	-	-	-	-	-	420	420	-	-	460	-	380	-
Total Organic Carbon	mg/L	n/v	n/v	-	4.5	6.3	6.1	8.6	3.1	3.1	-	-	-	-	1.8	-	6.9	-
Total Suspended Solids	mg/L	n/v	n/v	-	4300	5900	680	1600	430	430	19	11	-	-	17	-	11	-
Turbidity, Lab	ntu	5_{L}[D, E]	n/v	-	**770[D]**	**670[D]**	**440[D]**	**580[D]**	**68[D]**	**90[D]**	4.4	**5.9[D]**	-	-	**22[D]**	-	**31[D]**	-
BTEX and Petroleum Hydrocarbons																		
Benzene	µg/L	5[B]	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	-	<0.2	-
Toluene	µg/L	24[D]	24^{G} 22^{H}	0.85	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	-	-	<0.20	-	<0.2	-
Ethylbenzene	µg/L	2.4[D]	2.4^{GH}	< 0.20	< 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]	0.77	< 0.20	< 0.20	< 0.20	< 0.20	< 0.40	< 0.40	< 0.20	< 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	-	-	<0.20	-	<0.2	-
Xylenes, Total	µg/L	300[D]	72_{s1}[G] 300_{s1}[H]	0.77	< 0.20	< 0.20	< 0.20	< 0.20	< 0.40	< 0.40	< 0.20	< 0.20	-	-	<0.20	-	<0.2	-
PHC F1 (C6-C10 range)	µg/L	n/v	420_{s7}[G] 420_{s7}[H]	< 25	< 25	< 25	< 25	< 25	< 25	< 25	-	-	-	-	<25	-	<25	-
PHC F1 (C6-C10 range) minus BTEX	µg/L	n/v	420_{s7}[G] 420_{s7}[H]	< 25	< 25	< 25	< 25	< 25	< 25	< 25	-	-	-	-	<25	-	<25	-
PHC F2 (>C10-C16 range)	µg/L	n/v	150_{s15}[G] 150_{s15}[H]	< 100	< 100	< 100	< 100	< 100	< 100	< 100	-	-	-	-	<100	-	<100	-
PHC F3 (>C16-C34 range)	µg/L	n/v	500_{s8}[G] 500_{s8}[H]	< 200	< 200	< 200	< 200	< 200	< 200	< 200	-	-	-	-	<200	-	<200	-
PHC F4 (>C34-C50 range)	µg/L	n/v	500_{s10}[G] 500_{s10}[H]	< 200	< 200	< 200	< 200	< 200	< 200	< 200	-	-	-	-	<200	-	<200	-
Chromatogram to baseline at nC50	none	n/v	n/v	YES	YES	YES	YES	YES	YES	YES	-	-	-	-	YES	-	YES	-

Summary of Groundwater Analytical Results - Monitoring Wells
Clarington Tranformer Station
Hydro One Networks Inc.

Sample Location				MW4-13-S													MW4-15D	
Sample Date				**13-Dec-13**	**7-May-14**	**7-May-14**	**15-Aug-14**	**15-Aug-14**	**1-Oct-14**	**1-Oct-14**	**27-Nov-14**	**27-Nov-14**	**27-Nov-14**	**27-Nov-14**	**14-May-15**	**14-May-15**	**7-Apr-15**	**7-Apr-15**
Sample ID				**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**	**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-160900764-20150407-RD01**	**WG-160900764-20150407-RD01A**
Sampling Company				**STANTEC**	**STANTEC**	**STANTEC**	**STANTEC**	**STANTEC**	**STANTEC**	**STANTEC**	**STANTEC**	**STANTEC**	**STANTEC**	**STANTEC**	**STANTEC**	**Lab Filtered**	**STANTEC**	**STANTEC**
Laboratory				**MAXX**	**MAXX**	**MAXX**	**MAXX**	**MAXX**	**MAXX**	**MAXX**	**MAXX**	**MAXX**	**MAXX**	**MAXX**	**MAXX**	**STANTEC**	**MAXX**	**MAXX**
Laboratory Work Order				**B3L6734**	**B475182**	**B475182**	**B4E7727**	**B4E7727**	**B4I4645**	**B4I4645**	**B4M5208**	**B4M5208**	**B4M5208**	**B4M5208**	**B590648**	**B590648**	**B561683**	**B561683**
Laboratory Sample ID				**UH4007**	**VV0855**	**VV0856**	**XD5199**	**XD5200**	**XV9679**	**XV9680**	**YQ4962**	**YQ4964**	**YQ4963**	**YQ4965**	**AGX650**	**AGX651**	**ABP939**	**ABP940**
Filtered				**Lab Filtered Metals**	**Lab Filtered Metals**	**Lab Filtered Metals**	**Lab Filtered Metals**	**Lab Filtered Metals**	**Lab Filtered Metals**	**Lab Filtered Metals**	**Field Filtered Metals**	**Field Filtered Metals**	**Lab Filtered**	**Lab Filtered**	**Field Filtered Metals**		**Field Filtered Metals**	**Lab Filtered**
Sample Type	**Units**	**ODWS**	**Ontario SCS**			**Field Duplicate**		**Field Duplicate**		**Field Duplicate**		**Field Duplicate**		**Field Duplicate**		**AGX651**		
Metals																		
Aluminum	µg/L	100[E]	n/v	< 5.0	-	-	11	5.0	7.7	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	<5	-	5.1	-
Antimony	µg/L	6[C]	6[GH]	< 0.50	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	<0.5	-	0.67	-
Arsenic	µg/L	25[C]	25[GH]	< 1.0	-	-	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1	-	1.2	-
Barium	µg/L	1000[B]	1000[GH]	48	-	-	81	84	68	65	51	51	53	53	75	-	70	-
Beryllium	µg/L	n/v	4[GH]	< 0.50	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	<0.5	-	<0.5	-
Boron	µg/L	5000[C]	5000[GH]	29	-	-	29	36	22	23	40	32	17	17	19	-	180	-
Cadmium	µg/L	5[B]	2.1[GH]	< 0.10	-	-	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	<0.1	-	<0.1	-
Calcium	µg/L	n/v	n/v	91000	-	-	130000	100000	140000	130000	130000	130000	140000	140000	140000	-	28000	-
Cesium	µg/L	n/v	n/v	< 0.20	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chromium (Hexavalent)	µg/L	n/v	25[GH]	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	-	-	-	-	<0.50	-	<0.5	-
Chromium (Total)	µg/L	50[B]	50[GH]	< 5.0	-	-	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	<5	-	<5	-
Cobalt	µg/L	n/v	3.8[GH]	< 0.50	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	<0.5	-	<0.5	-
Copper	µg/L	1000[D]	69[GH]	< 1.0	-	-	1.1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1	-	<1	-
Iron	µg/L	300[D]	n/v	< 100	-	-	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	<100	-	<100	-
Lead	µg/L	10_e[B]	10[GH]	< 0.50	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	<0.5	-	<0.5	-
Magnesium	µg/L	n/v	n/v	12000	-	-	14000	15000	12000	12000	12000	12000	12000	12000	18000	-	11000	-
Manganese	µg/L	50[D]	n/v	< 2.0	-	-	2.2	< 2.0	< 2.0	< 2.0	13	13	10	8.0	13	-	22	-
Mercury	µg/L	1[B]	0.1[G] 0.29[H]	-	0.00012	0.00013	< 0.10	< 0.10	< 0.1	< 0.1	-	-	-	-	< 0.1	-	<0.1	-
Molybdenum	µg/L	n/v	70[GH]	1.9	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	<0.5	-	48	-
Nickel	µg/L	n/v	100[GH]	< 1.0	-	-	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1	-	2.4	-
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	1800	-	-	1100	1200	890	870	730	700	770	760	1000	-	2800	-
Rubidium	µg/L	n/v	n/v	1.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Selenium	µg/L	10[B]	10[GH]	< 2.0	-	-	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	<2	-	<2	-
Silicon	µg/L	n/v	n/v	4900	-	-	5700	6800	4700	4900	4200	4200	4500	4500	5700	-	3400	-
Silver	µg/L	n/v	1.2[GH]	< 0.10	-	-	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	<0.1	-	<0.1	-
Sodium	µg/L	200000_g[D] 20000_g[F]	490000[GH]	7600	-	-	5100	6800	3800	3900	5800	5300	4900	4800	12000	-	**88000[F]**	-
Strontium	µg/L	n/v	n/v	310	-	-	420	460	370	370	340	330	350	350	500	-	540	-
Thallium	µg/L	n/v	2[GH]	< 0.050	-	-	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	<0.05	-	<0.05	-
Titanium	µg/L	n/v	n/v	< 5.0	-	-	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	<5	-	<5	-
Uranium	µg/L	20[B]	20[GH]	1.2	-	-	0.59	0.51	0.65	0.68	0.89	0.88	0.96	0.94	0.73	-	3.8	-
Vanadium	µg/L	n/v	6.2[GH]	0.55	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.63	-	0.51	-
Zinc	µg/L	5000[D]	890[GH]	< 5.0	-	-	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	<5	-	<5	-
Zirconium	µg/L	n/v	n/v	< 1.0	-	-	-	-	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1	-	<1	-
Polychlorinated Biphenyls																		
Aroclor 1242	µg/L	n/v	0.2_{s14}[G] 0.2_{s14}[H]	-	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-	-	-	<0.05	-	<0.05	-
Aroclor 1248	µg/L	n/v	0.2_{s14}[G] 0.2_{s14}[H]	-	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-	-	-	<0.05	-	<0.05	-
Aroclor 1254	µg/L	n/v	0.2_{s14}[G] 0.2_{s14}[H]	-	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-	-	-	<0.05	-	<0.05	-
Aroclor 1260	µg/L	n/v	0.2_{s14}[G] 0.2_{s14}[H]	-	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-	-	-	<0.05	-	<0.05	-
Polychlorinated Biphenyls (PCBs)	µg/L	3[C]	0.2_{s14}[G] 0.2_{s14}[H]	-	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-	-	-	<0.05	-	<0.05	-

Summary of Groundwater Analytical Results - Monitoring Wells
Clarington Tranformer Station
Hydro One Networks Inc.

Sample Location										MW4-13-S								MW4-15D	
Sample Date				13-Dec-13	7-May-14	7-May-14	15-Aug-14	15-Aug-14	1-Oct-14	1-Oct-14	27-Nov-14	27-Nov-14	27-Nov-14	27-Nov-14	14-May-15	14-May-15	7-Apr-15	7-Apr-15
Sample ID				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	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-160900764-20150407-RD01	WG-160900764-20150407-RD01A
Sampling Company				STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	Lab Filtered STANTEC	STANTEC	STANTEC
Laboratory				MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX
Laboratory Work Order				B3L6734	B475182	B475182	B4E7727	B4E7727	B4I4645	B4I4645	B4M5208	B4M5208	B4M5208	B4M5208	B590648	B590648	B561683	B561683
Laboratory Sample ID				UH4007	VV0855	VV0856	XD5199	XD5200	XV9679	XV9680	YQ4962	YQ4964	YQ4963	YQ4965	AGX650	AGX651	ABP939	ABP940
Filtered				Lab Filtered Metals	Lab Filtered Metals	Lab Filtered Metals Field Duplicate	Lab Filtered Metals	Lab Filtered Metals Field Duplicate	Lab Filtered Metals	Lab Filtered Metals Field Duplicate	Field Filtered Metals	Field Filtered Metals Field Duplicate	Lab Filtered	Lab Filtered Field Duplicate	Field Filtered Metals	Lab Filtered	Field Filtered Metals	Lab Filtered
Sample Type	Units	ODWS	Ontario SCS															
Semi - Volatile Organic Compounds																		
Phthalates																		
Bis(2-Ethylhexyl)phthalate (DEHP)	µg/L	n/v	10[GH]	-	2	2	< 1	< 1	1	< 1	< 1	< 1	< 1	< 1	<1	<1	4	2
Diethyl Phthalate	µg/L	n/v	30[GH]	-	< 0.1	< 0.1	< 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[GH]	-	< 0.1	< 0.1	< 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[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
Acenaphthylene	µg/L	n/v	1[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
Anthracene	µg/L	n/v	1[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(a)anthracene	µg/L	n/v	1[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(a)pyrene	µg/L	0.01[B]	0.01[GH]	-	**0.02[BGH]**	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[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
Benzo(g,h,i)perylene	µg/L	n/v	0.2[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(k)fluoranthene	µg/L	n/v	0.1[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
Chrysene	µg/L	n/v	0.1[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
Dibenzo(a,h)anthracene	µg/L	n/v	0.2[GH]	-	< 0.1	< 0.1	< 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[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
Fluorene	µg/L	n/v	120[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
Indeno(1,2,3-cd)pyrene	µg/L	n/v	0.2[GH]	-	< 0.1	< 0.1	< 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[G] 3.2[H]	-	< 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	[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	[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	1GH	-	< 0.1	< 0.1	< 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[GH]	-	0.09	0.08	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	<0.05	<0.05	0.08	<0.05
Remaining Semi - Volatile Organic Compounds																		
Biphenyl, 1,1'- (Biphenyl)	µg/L	n/v	0.5[GH]	-	< 0.1	< 0.1	< 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[GH]	-	< 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[GH]	-	< 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[GH]	-	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	<1	<1	<1	<1
Chlorophenol, 2- (ortho-Chlorophenol)	µg/L	n/v	8.9[GH]	-	< 0.1	< 0.1	< 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[GH]	-	< 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[B] 0.3[D]	20[GH]	-	< 0.1	< 0.1	< 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[GH]	-	< 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[GH]	-	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	<2	<2	<2	<2
Dinitrotoluene, 2,4-	µg/L	n/v	5[I13,G] 5[I13,H]	-	< 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,G] 5[I13,H]	-	< 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[B] 30[I,D]	30[GH]	-	< 0.1	< 0.1	< 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[GH]	-	< 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[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
Trichlorophenol, 2,4,6-	µg/L	5[B] 2[I,D]	2[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

Summary of Groundwater Analytical Results - Monitoring Wells
Clarington Tranformer Station
Hydro One Networks Inc.

Sample Location				MW4-13-S													MW4-15D	
Sample Date				13-Dec-13	7-May-14	7-May-14	15-Aug-14	15-Aug-14	1-Oct-14	1-Oct-14	27-Nov-14	27-Nov-14	27-Nov-14	27-Nov-14	14-May-15	14-May-15	7-Apr-15	7-Apr-15
Sample ID				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	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-160900764-20150407-RD01	WG-160900764-20150407-RD01A
Sampling Company				STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	Lab Filtered STANTEC	STANTEC	STANTEC
Laboratory				MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX
Laboratory Work Order				B3L6734	B475182	B475182	B4E7727	B4E7727	B4I4645	B4I4645	B4M5208	B4M5208	B4M5208	B4M5208	B590648	B590648	B561683	B561683
Laboratory Sample ID				UH4007	VV0855	VV0856	XD5199	XD5200	XV9679	XV9680	YQ4962	YQ4964	YQ4963	YQ4965	AGX650	AGX651	ABP939	ABP940
Filtered				Lab Filtered Metals	Lab Filtered Metals	Lab Filtered Metals	Lab Filtered Metals	Lab Filtered Metals	Lab Filtered Metals	Lab Filtered Metals	Field Filtered Metals	Field Filtered Metals	Lab Filtered	Lab Filtered	Field Filtered Metals		Field Filtered Metals	Lab Filtered
Sample Type	Units	ODWS	Ontario SCS			Field Duplicate		Field Duplicate		Field Duplicate		Field Duplicate		Field Duplicate				
Volatile Organic Compounds																		
Acetone	µg/L	n/v	2700[GH]	-	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	-	-	<10	-	<10	-
Bromodichloromethane	µg/L	n/v	16[GH]	-	< 0.50	< 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	-	-	<1.0	-	<1	-
Bromomethane (Methyl bromide)	µg/L	n/v	0.89[GH]	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	-	-	<0.50	-	<0.5	-
Carbon Tetrachloride (Tetrachloromethane)	µg/L	5[B]	0.2[G] 0.79[H]	-	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	-	-	<0.20	-	<0.2	-
Chlorobenzene (Monochlorobenzene)	µg/L	80[B] 30[t,D]	30[GH]	-	< 0.20	< 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	-	-	<0.20	-	0.71	-
Dibromochloromethane	µg/L	n/v	25[GH]	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	-	-	<0.50	-	<0.5	-
Dichlorobenzene, 1,2-	µg/L	200[B] 3[t,D]	3[GH]	-	< 0.50	< 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[GH]	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	-	-	<0.50	-	<0.5	-
Dichlorobenzene, 1,4-	µg/L	5[B] 1[t,D]	0.5[G] 1[H]	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	-	-	<0.50	-	<0.5	-
Dichlorodifluoromethane (Freon 12)	µg/L	n/v	590[GH]	-	< 1.0	< 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[GH]	-	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	-	-	<0.20	-	<0.2	-
Dichloroethane, 1,2-	µg/L	5[C]	0.5[G] 1.6[H]	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	-	-	<0.50	-	<0.5	-
Dichloroethene, 1,1-	µg/L	14[B]	0.5[G] 1.6[H]	-	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	-	-	<0.20	-	<0.2	-
Dichloroethene, cis-1,2-	µg/L	n/v	1.6[GH]	-	< 0.50	< 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[GH]	-	< 0.50	< 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	-	-	<0.20	-	<0.2	-
Dichloropropene, 1,3- (sum of isomers cis + trans)	µg/L	n/v	0.5[s11,G] 0.5[s11,H]	-	< 0.50	< 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	[s11] [GH]	-	< 0.30	< 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	[s11] [GH]	-	< 0.40	< 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[GH]	-	< 0.20	< 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	-	-	<1.0	-	<1	-
Methyl Ethyl Ketone (MEK)	µg/L	n/v	1800[GH]	-	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	-	-	<10	-	<10	-
Methyl Isobutyl Ketone (MIBK)	µg/L	n/v	640[GH]	-	< 5.0	< 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[GH]	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	-	-	<0.50	-	<0.5	-
Methylene Chloride (Dichloromethane)	µg/L	50[B]	26[G] 50[H]	-	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	-	-	<2.0	-	<2	-
Styrene	µg/L	n/v	5.4[GH]	-	< 0.50	< 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[GH]	-	< 0.50	< 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	-	-	<0.50	-	<0.5	-
Tetrachloroethene (PCE)	µg/L	30[B]	0.5[G] 1.6[H]	-	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	-	-	<0.20	-	<0.2	-
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	-	-	<0.20	-	<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	-	-	<0.50	-	<0.5	-
Trichloroethene (TCE)	µg/L	5[B]	0.5[G] 1.6[H]	-	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	-	-	<0.20	-	<0.2	-
Trichlorofluoromethane (Freon 11)	µg/L	n/v	150[GH]	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	-	-	<0.50	-	<0.5	-
Vinyl chloride	µg/L	2[B]	0.5[GH]	-	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	-	-	<0.20	-	<0.2	-

See notes on last page

Summary of Groundwater Analytical Results - Monitoring Wells
Clarington Tranformer Station
Hydro One Networks Inc.

Sample Location				MW5-14-D			MW5-14-I								MW5-14-S			
Sample Date				3-Feb-15	9-Apr-15	9-Apr-15	28-Oct-14	4-Feb-15	4-Feb-15	10-Apr-15	10-Apr-15	9-Oct-14	23-Dec-14	23-Dec-14	9-Apr-15	9-Apr-15	9-Apr-15	9-Apr-15
Sample ID				WG-160900764-20150203-RD02	WG-160900764-20150409-RD09	WG-160900764-20150409-RD09A	WG-160900764-20141028-HB01	WG-160900764-20150204-RD04	WG-160900764-20150204-RD04A	WG-160900764-20150410-RD08	WG-160900764-20150410-RD08A	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
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				B520805	B562741	B562741	B4K2141	B520805	B520805	B563828	B563828	B4I9252	B4O2825	B4O2825	B562741	B562741	B562741	B562741
Laboratory Sample ID				ZK6639	ABU949	ABU950	YE8480	ZK6645	ZK6646	ABZ558	ABZ559	XY3182	YY9889	YY9890	ABU945	ABU947	ABU946	ABU948
Filtered				Field Filtered Metals	Field Filtered Metals	Lab Filtered	Lab Filtered Metals	Field Filtered Metals	Lab Filtered	Field Filtered Metals	Lab Filtered	Lab Filtered Metals	Field Filtered Metals	Lab Filtered	Field Filtered Metals	Field Filtered Metals	Lab Filtered	Lab Filtered
Sample Type	Units	ODWS	Ontario SCS													Field Duplicate		Field Duplicate
General Chemistry																		
Acidity	mg/L	n/v	n/v	<10	<10	-	< 10	<10	-	<10	-	12	-	-	<10	13	-	-
Alkalinity, Bicarbonate (as CaCO3)	mg/L	n/v	n/v	240	180	-	390	150	-	240	-	200	230	-	230	250	-	-
Alkalinity, Carbonate (as CaCO3)	mg/L	n/v	n/v	4.8	2.1	-	10	3.4	-	3.3	-	1.3	1.8	-	1.5	1.6	-	-
Alkalinity, Total (as CaCO3)	mg/L	30-500[E]	n/v	250	180	-	330	150	-	240	-	210	230	-	230	250	-	-
Ammonia (as N)	mg/L	n/v	n/v	0.078	<0.05	-	0.14	<0.050	-	0.053	-	0.17	-	-	<0.05	0.051	-	-
Anion Sum	meq/L	n/v	n/v	5.90	4.22	-	7.89	3.81	-	5.48	-	5.70	6.12	-	6.13	6.58	-	-
Cation Sum	meq/L	n/v	n/v	3.38	2.73	-	5.10	3.28	-	3.01	-	5.47	6.16	-	5.73	5.75	-	-
Chloride	mg/L	250[D]	790[GH]	7	3	-	12	3	-	3	-	8	7	-	8	7	-	-
Cyanide (Free)	µg/L	200[B]	52[GH]	<2	<2	-	< 2	<2	-	<2	-	< 2	-	-	<2	<2	-	-
Dissolved Organic Carbon (DOC)	mg/L	5[D]	n/v	**39[D]**	**13[D]**	-	3.4	2.5	-	2.0	-	1.9	-	-	1.1	1.1	-	-
Electrical Conductivity, Lab	µmhos/cm	n/v	n/a[GH]	310	270	-	440	310	-	280	-	530	580	-	560	540	-	-
Fluoride	mg/L	1.5_{h}[B]	n/v	1.1	1.2	-	0.98	1.3	-	1.4	-	0.11	-	-	<0.1	<0.1	-	-
Hardness (as CaCO3)	mg/L	80-100[E]	n/v	**33[E]**	**25[E]**	-	**51[E]**	**22[E]**	-	**23[E]**	-	**260[E]**	**300[E]**	-	**280[E]**	**280[E]**	-	-
Ion Balance	%	n/v	n/v	27.1	21.6	-	21.5	7.58	-	29.0	-	2.04	0.290	-	3.41	6.72	-	-
Langelier Index (at 20 C)	none	n/v	n/v	0.223	-0.275	-	0.502	-0.0460	-	-0.0670	-	0.651	0.864	-	0.743	0.769	-	-
Langelier Index (at 4 C)	none	n/v	n/v	-0.0250	-0.524	-	0.258	-0.295	-	-0.315	-	0.402	0.615	-	0.495	0.520	-	-
Nitrate (as N)	mg/L	10.0_{d}[B]	n/v	<0.50	<0.1	-	< 0.10	<0.10	-	<0.5	-	**14.7[B]**	**11.9[B]**	-	**12.6[B]**	**12.3[B]**	-	-
Nitrate + Nitrite (as N)	mg/L	10.0_{d}[B]	n/v	<0.50	<0.1	-	0.014	<0.10	-	<0.5	-	**14.8[B]**	**11.9[B]**	-	**12.6[B]**	**12.3[B]**	-	-
Nitrite (as N)	mg/L	1.0_{d}[B]	n/v	<0.050	<0.01	-	0.014	0.034	-	<0.05	-	0.018	0.014	-	<0.01	0.020	-	-
Orthophosphate(as P)	mg/L	n/v	n/v	0.018	0.010	-	0.34	0.031	-	0.015	-	< 0.010	< 0.010	-	<0.01	<0.01	-	-
pH	S.U.	6.5-8.5[E]	n/v	8.32	8.10	-	8.44	8.39	-	8.17	-	7.85	7.92	-	7.85	7.83	-	-
Saturation pH (at 20 C)	none	n/v	n/v	8.10	8.38	-	7.94	8.43	-	8.24	-	7.20	7.06	-	7.11	7.06	-	-
Saturation pH (at 4 C)	none	n/v	n/v	8.34	8.63	-	8.18	8.68	-	8.48	-	7.44	7.31	-	7.36	7.31	-	-
Sulfate	mg/L	500_{h}[D]	n/v	32	24	-	46	29	-	23	-	15	18	-	23	25	-	-
Total Dissolved Solids	mg/L	500[D]	n/v	412	414	-	**1780[D]**	266	-	438	-	346	-	-	338	330	-	-
Total Dissolved Solids (Calculated)	mg/L	500[D]	n/v	270	200	-	370	200	-	240	-	-	350	-	340	360	-	-
Total Organic Carbon	mg/L	n/v	n/v	37	12	-	28	3.0	-	3.3	-	3.5	-	-	0.88	1.3	-	-
Total Suspended Solids	mg/L	n/v	n/v	260	250	-	1100	19	-	430	-	22000	2200	-	130	310	-	-
Turbidity, Lab	ntu	5_{L}[D, E]	n/v	**490[D]**	**600[D]**	-	**2900[D]**	**150[D]**	-	**580[D]**	-	**3400[D]**	-	-	**17[D]**	**200[D]**	-	-
BTEX and Petroleum Hydrocarbons																		
Benzene	µg/L	5[B]	0.5^{G} 5^{H}	<0.20	<0.2	-	< 0.20	<0.20	-	<0.2	-	0.47	< 0.20	-	<0.2	<0.2	-	-
Toluene	µg/L	24[D]	24^{G} 22^{H}	0.43	0.28	-	< 0.20	<0.20	-	<0.2	-	6.5	< 0.20	-	<0.2	<0.2	-	-
Ethylbenzene	µg/L	2.4[D]	2.4^{GH}	<0.20	<0.2	-	< 0.20	<0.20	-	<0.2	-	1.5	< 0.20	-	<0.2	<0.2	-	-
Xylene, m & p-	µg/L	300_{s1}[D]	$_{s1}^{GH}$	0.21	<0.2	-	< 0.20	<0.20	-	<0.2	-	6.2	< 0.20	-	<0.2	<0.2	-	-
Xylene, o-	µg/L	300_{s1}[D]	$_{s1}^{GH}$	<0.20	<0.2	-	< 0.20	<0.20	-	<0.2	-	1.7	< 0.20	-	<0.2	<0.2	-	-
Xylenes, Total	µg/L	300[D]	72_{s1}[G] 300_{s1}[H]	0.21	<0.2	-	< 0.20	<0.20	-	<0.2	-	7.9	< 0.20	-	<0.2	<0.2	-	-
PHC F1 (C6-C10 range)	µg/L	n/v	420_{s7}[G] 420_{s7}[H]	<25	<25	-	< 25	<25	-	<25	-	< 25	-	-	<25	<25	-	-
PHC F1 (C6-C10 range) minus BTEX	µg/L	n/v	420_{s7}[G] 420_{s7}[H]	<25	<25	-	< 25	<25	-	<25	-	< 25	-	-	<25	<25	-	-
PHC F2 (>C10-C16 range)	µg/L	n/v	150_{s15}[G] 150_{s15}[H]	<100	<100	-	< 100	<100	-	<100	-	< 100	-	-	<100	<100	-	-
PHC F3 (>C16-C34 range)	µg/L	n/v	500_{s8}[G] 500_{s8}[H]	<200	<200	-	< 200	<200	-	<200	-	< 200	-	-	<200	<200	-	-
PHC F4 (>C34-C50 range)	µg/L	n/v	500_{s10}[G] 500_{s10}[H]	<200	<200	-	< 200	<200	-	<200	-	< 200	-	-	<200	<200	-	-
Chromatogram to baseline at nC50	none	n/v	n/v	YES	YES	-	YES	YES	-	YES	-	YES	-	-	YES	YES	-	-

Summary of Groundwater Analytical Results - Monitoring Wells
Clarington Tranformer Station
Hydro One Networks Inc.

Sample Location				MW5-14-D			MW5-14-I					MW5-14-S						
Sample Date				3-Feb-15	9-Apr-15	9-Apr-15	28-Oct-14	4-Feb-15	4-Feb-15	10-Apr-15	10-Apr-15	9-Oct-14	23-Dec-14	23-Dec-14	9-Apr-15	9-Apr-15	9-Apr-15	9-Apr-15
Sample ID				WG-160900764-20150203-RD02	WG-160900764-20150409-RD09	WG-160900764-20150409-RD09A	WG-160900764-20141028-HB01	WG-160900764-20150204-RD04	WG-160900764-20150204-RD04A	WG-160900764-20150410-RD08	WG-160900764-20150410-RD08A	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
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				B520805	B562741	B562741	B4K2141	B520805	B520805	B563828	B563828	B4I9252	B4O2825	B4O2825	B562741	B562741	B562741	B562741
Laboratory Sample ID				ZK6639	ABU949	ABU950	YE8480	ZK6645	ZK6646	ABZ558	ABZ559	XY3182	YY9889	YY9890	ABU945	ABU947	ABU946	ABU948
Filtered				Field Filtered Metals	Field Filtered Metals	Lab Filtered	Lab Filtered Metals	Field Filtered Metals	Lab Filtered	Field Filtered Metals	Lab Filtered	Lab Filtered Metals	Field Filtered Metals	Lab Filtered	Field Filtered Metals	Field Filtered Metals Field Duplicate	Lab Filtered	Lab Filtered Field Duplicate
Sample Type	**Units**	**ODWS**	**Ontario SCS**															
Metals																		
Aluminum	µg/L	100[E]	n/v	70	31	-	**270[E]**	**110[E]**	**110[E]**	78	-	5.6	12	< 5	<5	<5	-	-
Antimony	µg/L	6[C]	6[GH]	0.55	<0.5	-	1.4	1.1	1.1	1.6	-	< 0.50	< 0.5	< 0.5	<0.5	<0.5	-	-
Arsenic	µg/L	25[C]	25[GH]	1.5	1.2	-	< 1.0	2.1	2	1.8	-	< 1.0	< 1	< 1	<1	<1	-	-
Barium	µg/L	1000[B]	1000[GH]	13	7.2	-	30	8.6	8.1	7.8	-	75	55	54	45	47	-	-
Beryllium	µg/L	n/v	4[GH]	<0.5	<0.5	-	< 0.50	<0.5	<0.5	<0.5	-	< 0.50	< 0.5	< 0.5	<0.5	<0.5	-	-
Boron	µg/L	5000[C]	5000[GH]	200	210	-	180	210	190	210	-	16	10	13	<10	<10	-	-
Cadmium	µg/L	5[B]	2.1[GH]	<0.1	<0.1	-	< 0.10	<0.1	<0.1	<0.1	-	< 0.10	< 0.1	< 0.1	<0.1	<0.1	-	-
Calcium	µg/L	n/v	n/v	9100	6600	-	15000	5900	6200	6900	-	84000	100000	99000	92000	93000	-	-
Cesium	µg/L	n/v	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chromium (Hexavalent)	µg/L	n/v	25[GH]	-	<0.5	-	< 0.50	<0.50	-	<0.5	-	< 0.50	-	-	<0.5	<0.5	-	-
Chromium (Total)	µg/L	50[B]	50[GH]	<5	<5	-	< 5.0	<5	<5	<5	-	< 5.0	< 5	< 5	<5	<5	-	-
Cobalt	µg/L	n/v	3.8[GH]	<0.5	<0.5	-	< 0.50	<0.5	<0.5	<0.5	-	< 0.50	< 0.5	< 0.5	<0.5	<0.5	-	-
Copper	µg/L	1000[D]	69[GH]	3.3	<1	-	3.3	2	1.9	1.1	-	1.1	1.9	< 1	<1	<1	-	-
Iron	µg/L	300[D]	n/v	<100	<100	-	< 100	<100	<100	<100	-	< 100	< 100	< 100	<100	<100	-	-
Lead	µg/L	10_e[B]	10[GH]	<0.5	<0.5	-	< 0.50	<0.5	<0.5	<0.5	-	< 0.50	< 0.5	< 0.5	<0.5	<0.5	-	-
Magnesium	µg/L	n/v	n/v	2600	2000	-	3300	1500	1600	1400	-	12000	11000	12000	11000	11000	-	-
Manganese	µg/L	50[D]	n/v	6	7.1	-	5.5	<2	<2	2.3	-	15	14	17	5	5	-	-
Mercury	µg/L	1[B]	0.1[G] 0.29[H]	-	<0.1	-	< 0.1	-	-	<0.1	-	< 0.1	-	-	<0.1	<0.1	-	-
Molybdenum	µg/L	n/v	70[GH]	12	7.8	-	33	13	15	14	-	3.1	1.1	1.3	0.69	0.67	-	-
Nickel	µg/L	n/v	100[GH]	1.3	<1	-	< 1.0	<1	<1	<1	-	1.3	< 1	< 1	<1	<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	1000	780	-	1900	920	960	850	-	3600	2000	1900	1500	1500	-	-
Rubidium	µg/L	n/v	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Selenium	µg/L	10[B]	10[GH]	<2	<2	-	< 2.0	<2	<2	<2	-	< 2.0	< 2	< 2	<2	<2	-	-
Silicon	µg/L	n/v	n/v	3100	3100	-	1300	2200	2200	2200	-	5500	5200	5200	4500	4600	-	-
Silver	µg/L	n/v	1.2[GH]	<0.1	<0.1	-	< 0.10	<0.1	<0.1	<0.1	-	< 0.10	< 0.1	< 0.1	<0.1	<0.1	-	-
Sodium	µg/L	200000_g[D] 20000_g[F]	490000[GH]	**61000[F]**	**51000[F]**	-	**92000[F]**	**65000[F]**	**64000[F]**	**58000[F]**	-	5100	3500	3600	3300	3300	-	-
Strontium	µg/L	n/v	n/v	120	88	-	150	80	86	84	-	280	210	210	190	190	-	-
Thallium	µg/L	n/v	2[GH]	<0.05	<0.05	-	< 0.050	<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	-	< 5.0	<5	<5	<5	-	< 5.0	< 5	< 5	<5	<5	-	-
Uranium	µg/L	20[B]	20[GH]	2.3	1.6	-	4.0	3.8	4	3.7	-	2.9	0.79	0.91	0.68	0.71	-	-
Vanadium	µg/L	n/v	6.2[GH]	1.2	0.81	-	2.0	1.9	2.1	1.8	-	0.76	< 0.5	< 0.5	<0.5	<0.5	-	-
Zinc	µg/L	5000[D]	890[GH]	7.9	<5	-	< 5.0	<5	<5	<5	-	< 5.0	6	< 5	9.5	<5	-	-
Zirconium	µg/L	n/v	n/v	<1	<1	-	< 1.0	<1	<1	<1	-	< 1.0	< 1	< 1	<1	<1	-	-
Polychlorinated Biphenyls																		
Aroclor 1242	µg/L	n/v	0.2_{s14}[G] 0.2_{s14}[H]	<0.05	<0.05	-	***< 0.5***	<0.05	-	<0.05	-	***< 0.5***	-	-	<0.05	<0.05	-	-
Aroclor 1248	µg/L	n/v	0.2_{s14}[G] 0.2_{s14}[H]	<0.05	<0.05	-	***< 0.5***	<0.05	-	<0.05	-	***< 0.5***	-	-	<0.05	<0.05	-	-
Aroclor 1254	µg/L	n/v	0.2_{s14}[G] 0.2_{s14}[H]	<0.05	<0.05	-	***< 0.5***	<0.05	-	<0.05	-	***< 0.5***	-	-	<0.05	<0.05	-	-
Aroclor 1260	µg/L	n/v	0.2_{s14}[G] 0.2_{s14}[H]	<0.05	<0.05	-	***< 0.5***	<0.05	-	<0.05	-	***< 0.5***	-	-	<0.05	<0.05	-	-
Polychlorinated Biphenyls (PCBs)	µg/L	3[C]	0.2_{s14}[G] 0.2_{s14}[H]	<0.05	<0.05	-	***< 0.5***	<0.05	-	<0.05	-	***< 0.5***	-	-	<0.05	<0.05	-	-

Summary of Groundwater Analytical Results - Monitoring Wells
Clarington Tranformer Station
Hydro One Networks Inc.

Sample Location				MW5-14-D			MW5-14-I					MW5-14-S						
Sample Date				3-Feb-15	9-Apr-15	9-Apr-15	28-Oct-14	4-Feb-15	4-Feb-15	10-Apr-15	10-Apr-15	9-Oct-14	23-Dec-14	23-Dec-14	9-Apr-15	9-Apr-15	9-Apr-15	9-Apr-15
Sample ID				WG-160900764-20150203-RD02	WG-160900764-20150409-RD09	WG-160900764-20150409-RD09A	WG-160900764-20141028-HB01	WG-160900764-20150204-RD04	WG-160900764-20150204-RD04A	WG-160900764-20150410-RD08	WG-160900764-20150410-RD08A	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
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				B520805	B562741	B562741	B4K2141	B520805	B520805	B563828	B563828	B4I9252	B4O2825	B4O2825	B562741	B562741	B562741	B562741
Laboratory Sample ID				ZK6639	ABU949	ABU950	YE8480	ZK6645	ZK6646	ABZ558	ABZ559	XY3182	YY9889	YY9890	ABU945	ABU947	ABU946	ABU948
Filtered				Field Filtered Metals	Field Filtered Metals	Lab Filtered	Lab Filtered Metals	Field Filtered Metals	Lab Filtered	Field Filtered Metals	Lab Filtered	Lab Filtered Metals	Field Filtered Metals	Lab Filtered	Field Filtered Metals	Field Filtered Metals	Lab Filtered	Lab Filtered
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[GH]	-	<1	<1	7	<1	<1	<1	<1	2	< 1	< 1	<2	<1	<1	<1
Diethyl Phthalate	µg/L	n/v	30[GH]	-	<0.1	5.2	< 0.1	<0.1	<0.1	<0.1	2.0	< 0.1	< 0.1	< 0.1	<0.2	<0.1	0.1	1.9
Dimethyl Phthalate	µg/L	n/v	30[GH]	-	<0.1	<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
Polycyclic Aromatic Hydrocarbons																		
Acenaphthene	µg/L	n/v	4.1[GH]	-	<0.2	<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
Acenaphthylene	µg/L	n/v	1[GH]	-	<0.2	<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
Anthracene	µg/L	n/v	1[GH]	-	<0.05	<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
Benzo(a)anthracene	µg/L	n/v	1[GH]	-	<0.05	<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
Benzo(a)pyrene	µg/L	0.01[B]	0.01[GH]	-	<0.01	<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
Benzo(b/j)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	<0.1	<0.05	<0.05	<0.05
Benzo(g,h,i)perylene	µg/L	n/v	0.2[GH]	-	<0.05	<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
Benzo(k)fluoranthene	µg/L	n/v	0.1[GH]	-	<0.05	<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
Chrysene	µg/L	n/v	0.1[GH]	-	<0.05	<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
Dibenzo(a,h)anthracene	µg/L	n/v	0.2[GH]	-	<0.1	<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
Fluoranthene	µg/L	n/v	0.41[GH]	-	<0.2	<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
Fluorene	µg/L	n/v	120[GH]	-	<0.2	<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
Indeno(1,2,3-cd)pyrene	µg/L	n/v	0.2[GH]	-	<0.1	<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
Methylnaphthalene (Total)	µg/L	n/v	3.2[G] 3.2[H]	-	<0.28	<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
Methylnaphthalene, 1-	µg/L	n/v	[GH]	-	<0.2	<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
Methylnaphthalene, 2-	µg/L	n/v	[GH]	-	<0.2	<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
Naphthalene	µg/L	n/v	7[G] 11[H]	-	<0.2	<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
Phenanthrene	µg/L	n/v	1GH	-	<0.1	<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
Pyrene	µg/L	n/v	4.1[GH]	-	<0.05	<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
Remaining Semi - Volatile Organic Compounds																		
Biphenyl, 1,1'- (Biphenyl)	µg/L	n/v	0.5[GH]	-	<0.1	<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
Bis(2-Chloroethyl)ether	µg/L	n/v	5[GH]	-	<0.5	<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
Bis(2-Chloroisopropyl)ether	µg/L	n/v	120[GH]	-	<0.5	<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
Chloroaniline, 4-	µg/L	n/v	10[GH]	-	<1	<1	< 1	<1	<1	<1	<1	< 1	< 1	< 1	<2	<1	<1	<1
Chlorophenol, 2- (ortho-Chlorophenol)	µg/L	n/v	8.9[GH]	-	<0.1	<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
Dichlorobenzidine, 3,3'-	µg/L	n/v	0.5[GH]	-	<0.5	<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
Dichlorophenol, 2,4-	µg/L	900[B] 0.3[D]	20[GH]	-	<0.1	<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
Dimethylphenol, 2,4-	µg/L	n/v	59[GH]	-	<0.5	<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
Dinitrophenol, 2,4-	µg/L	n/v	10[GH]	-	<2	<2	< 2	<2	<2	<2	<2	< 2	< 2	< 2	<4	<2	<2	<2
Dinitrotoluene, 2,4-	µg/L	n/v	5[s13][G] 5[s13][H]	-	<0.3	<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
Dinitrotoluene, 2,6-	µg/L	n/v	5[s13][G] 5[s13][H]	-	<0.3	<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
Pentachlorophenol	µg/L	60[B] 30[t][D]	30[GH]	-	<0.1	<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
Phenol	µg/L	n/v	890[GH]	-	<0.5	<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
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	<0.2	<0.1	<0.1	<0.1
Trichlorophenol, 2,4,5-	µg/L	n/v	8.9[GH]	-	<0.2	<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
Trichlorophenol, 2,4,6-	µg/L	5[B] 2[t][D]	2[GH]	-	<0.2	<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

Summary of Groundwater Analytical Results - Monitoring Wells
Clarington Tranformer Station
Hydro One Networks Inc.

Sample Location				MW5-14-D			MW5-14-I								MW5-14-S			
Sample Date				3-Feb-15	9-Apr-15	9-Apr-15	28-Oct-14	4-Feb-15	4-Feb-15	10-Apr-15	10-Apr-15	9-Oct-14	23-Dec-14	23-Dec-14	9-Apr-15	9-Apr-15	9-Apr-15	9-Apr-15
Sample ID				WG-160900764-20150203-RD02	WG-160900764-20150409-RD09	WG-160900764-20150409-RD09A	WG-160900764-20141028-HB01	WG-160900764-20150204-RD04	WG-160900764-20150204-RD04A	WG-160900764-20150410-RD08	WG-160900764-20150410-RD08A	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
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				B520805	B562741	B562741	B4K2141	B520805	B520805	B563828	B563828	B4I9252	B4O2825	B4O2825	B562741	B562741	B562741	B562741
Laboratory Sample ID				ZK6639	ABU949	ABU950	YE8480	ZK6645	ZK6646	ABZ558	ABZ559	XY3182	YY9889	YY9890	ABU945	ABU947	ABU946	ABU948
Filtered				Field Filtered Metals	Field Filtered Metals	Lab Filtered	Lab Filtered Metals	Field Filtered Metals	Lab Filtered	Field Filtered Metals	Lab Filtered	Lab Filtered Metals	Field Filtered Metals	Lab Filtered	Field Filtered Metals	Field Filtered Metals	Lab Filtered	Lab Filtered
Sample Type	Units	ODWS	Ontario SCS													Field Duplicate		Field Duplicate
Volatile Organic Compounds																		
Acetone	µg/L	n/v	2700[GH]	<10	<10	-	< 10	<10	-	<10	-	14	< 10	-	<10	<10	-	-
Bromodichloromethane	µg/L	n/v	16[GH]	<0.50	<0.5	-	< 0.50	<0.50	-	<0.5	-	< 0.50	< 0.50	-	<0.5	<0.5	-	-
Bromoform (Tribromomethane)	µg/L	n/v	5[G] 25[H]	<1.0	<1	-	< 1.0	<1.0	-	<1	-	< 1.0	< 1.0	-	<1	<1	-	-
Bromomethane (Methyl bromide)	µg/L	n/v	0.89[GH]	<0.50	<0.5	-	< 0.50	<0.50	-	<0.5	-	< 0.50	< 0.50	-	<0.5	<0.5	-	-
Carbon Tetrachloride (Tetrachloromethane)	µg/L	5[B]	0.2[G] 0.79[H]	<0.20	<0.2	-	< 0.20	<0.20	-	<0.2	-	< 0.20	< 0.20	-	<0.2	<0.2	-	-
Chlorobenzene (Monochlorobenzene)	µg/L	80[B] 30[t,D]	30[GH]	<0.20	<0.2	-	< 0.20	<0.20	-	<0.2	-	< 0.20	< 0.20	-	<0.2	<0.2	-	-
Chloroform (Trichloromethane)	µg/L	n/v	2[G] 2.4[H]	0.20	<0.2	-	0.37	<0.20	-	<0.2	-	< 0.20	< 0.20	-	<0.2	<0.2	-	-
Dibromochloromethane	µg/L	n/v	25[GH]	<0.50	<0.5	-	< 0.50	<0.50	-	<0.5	-	< 0.50	< 0.50	-	<0.5	<0.5	-	-
Dichlorobenzene, 1,2-	µg/L	200[B] 3[t,D]	3[GH]	<0.50	<0.5	-	< 0.50	<0.50	-	<0.5	-	< 0.50	< 0.50	-	<0.5	<0.5	-	-
Dichlorobenzene, 1,3-	µg/L	n/v	59[GH]	<0.50	<0.5	-	< 0.50	<0.50	-	<0.5	-	< 0.50	< 0.50	-	<0.5	<0.5	-	-
Dichlorobenzene, 1,4-	µg/L	5[B] 1[t,D]	0.5[G] 1[H]	<0.50	<0.5	-	< 0.50	<0.50	-	<0.5	-	< 0.50	< 0.50	-	<0.5	<0.5	-	-
Dichlorodifluoromethane (Freon 12)	µg/L	n/v	590[GH]	<1.0	<1	-	< 1.0	<1.0	-	<1	-	< 1.0	< 1.0	-	<1	<1	-	-
Dichloroethane, 1,1-	µg/L	n/v	5[GH]	<0.20	<0.2	-	< 0.20	<0.20	-	<0.2	-	< 0.20	< 0.20	-	<0.2	<0.2	-	-
Dichloroethane, 1,2-	µg/L	5[C]	0.5[G] 1.6[H]	<0.50	<0.5	-	< 0.50	<0.50	-	<0.5	-	< 0.50	< 0.50	-	<0.5	<0.5	-	-
Dichloroethene, 1,1-	µg/L	14[B]	0.5[G] 1.6[H]	<0.20	<0.2	-	< 0.20	<0.20	-	<0.2	-	< 0.20	< 0.20	-	<0.2	<0.2	-	-
Dichloroethene, cis-1,2-	µg/L	n/v	1.6[GH]	<0.50	<0.5	-	< 0.50	<0.50	-	<0.5	-	< 0.50	< 0.50	-	<0.5	<0.5	-	-
Dichloroethene, trans-1,2-	µg/L	n/v	1.6[GH]	<0.50	<0.5	-	< 0.50	<0.50	-	<0.5	-	< 0.50	< 0.50	-	<0.5	<0.5	-	-
Dichloropropane, 1,2-	µg/L	n/v	0.58[G] 5[H]	<0.20	<0.2	-	< 0.20	<0.20	-	<0.2	-	< 0.20	< 0.20	-	<0.2	<0.2	-	-
Dichloropropene, 1,3- (sum of isomers cis + trans)	µg/L	n/v	0.5[s11,G] 0.5[s11,H]	<0.50	<0.5	-	< 0.50	<0.50	-	<0.5	-	< 0.50	< 0.50	-	<0.5	<0.5	-	-
Dichloropropene, cis-1,3-	µg/L	n/v	[s11,GH]	<0.30	<0.3	-	< 0.30	<0.30	-	<0.3	-	< 0.30	< 0.30	-	<0.3	<0.3	-	-
Dichloropropene, trans-1,3-	µg/L	n/v	[s11,GH]	<0.40	<0.4	-	< 0.40	<0.40	-	<0.4	-	< 0.40	< 0.40	-	<0.4	<0.4	-	-
Ethylene Dibromide (Dibromoethane, 1,2-)	µg/L	n/v	0.2[GH]	<0.20	<0.2	-	< 0.20	<0.20	-	<0.2	-	< 0.20	< 0.20	-	<0.2	<0.2	-	-
Hexane (n-Hexane)	µg/L	n/v	5[G] 51[H]	<1.0	<1	-	< 1.0	<1.0	-	<1	-	< 1.0	< 1.0	-	<1	<1	-	-
Methyl Ethyl Ketone (MEK)	µg/L	n/v	1800[GH]	<10	<10	-	< 10	<10	-	<10	-	< 10	< 10	-	<10	<10	-	-
Methyl Isobutyl Ketone (MIBK)	µg/L	n/v	640[GH]	<5.0	<5	-	< 5.0	<5.0	-	<5	-	< 5.0	< 5.0	-	<5	<5	-	-
Methyl tert-butyl ether (MTBE)	µg/L	n/v	15[GH]	<0.50	<0.5	-	< 0.50	<0.50	-	<0.5	-	< 0.50	< 0.50	-	<0.5	<0.5	-	-
Methylene Chloride (Dichloromethane)	µg/L	50[B]	26[G] 50[H]	<2.0	<2	-	< 2.0	<2.0	-	<2	-	< 2.0	< 2.0	-	<2	<2	-	-
Styrene	µg/L	n/v	5.4[GH]	<0.50	<0.5	-	< 0.50	<0.50	-	<0.5	-	< 0.50	< 0.50	-	<0.5	<0.5	-	-
Tetrachloroethane, 1,1,1,2-	µg/L	n/v	1.1[GH]	<0.50	<0.5	-	< 0.50	<0.50	-	<0.5	-	< 0.50	< 0.50	-	<0.5	<0.5	-	-
Tetrachloroethane, 1,1,2,2-	µg/L	n/v	0.5[G] 1[H]	<0.50	<0.5	-	< 0.50	<0.50	-	<0.5	-	< 0.50	< 0.50	-	<0.5	<0.5	-	-
Tetrachloroethene (PCE)	µg/L	30[B]	0.5[G] 1.6[H]	<0.20	<0.2	-	< 0.20	<0.20	-	<0.2	-	< 0.20	< 0.20	-	<0.2	<0.2	-	-
Trichloroethane, 1,1,1-	µg/L	n/v	23[G] 200[H]	<0.20	<0.2	-	< 0.20	<0.20	-	<0.2	-	< 0.20	< 0.20	-	<0.2	<0.2	-	-
Trichloroethane, 1,1,2-	µg/L	n/v	0.5[G] 4.7[H]	<0.50	<0.5	-	< 0.50	<0.50	-	<0.5	-	< 0.50	< 0.50	-	<0.5	<0.5	-	-
Trichloroethene (TCE)	µg/L	5[B]	0.5[G] 1.6[H]	<0.20	<0.2	-	< 0.20	<0.20	-	<0.2	-	< 0.20	< 0.20	-	<0.2	<0.2	-	-
Trichlorofluoromethane (Freon 11)	µg/L	n/v	150[GH]	<0.50	<0.5	-	< 0.50	<0.50	-	<0.5	-	< 0.50	< 0.50	-	<0.5	<0.5	-	-
Vinyl chloride	µg/L	2[B]	0.5[GH]	<0.20	<0.2	-	< 0.20	<0.20	-	<0.2	-	< 0.20	< 0.20	-	<0.2	<0.2	-	-

See notes on last page

Summary of Groundwater Analytical Results - Monitoring Wells
Clarington Tranformer Station
Hydro One Networks Inc.

Sample Location				MW5-14-S (2)				MW6-14					MW7-14				
Sample Date				3-Feb-15	3-Feb-15	10-Apr-15	10-Apr-15	9-Oct-14	26-Nov-14	26-Nov-14	13-Apr-15	13-Apr-15	9-Oct-14	27-Nov-14	27-Nov-14	13-Apr-15	13-Apr-15
Sample ID				WG-160900764-20150203-RD03	WG-160900764-20150203-RD03A	WG-160900764-20150410-RD010	WG-160900764-20150410-RD10A	WG-160900764-20141009-AD02	WG-160900764-20141126 RD05	WG-160900764-20141126 RD05A	WG-160900764-20150413-RD13	WG-160900764-20150413-RD13A	WG-160900764-20141009-AD03	WG-160900764-20141127-RD10	WG-160900764-20141127-RD10A	WG-160900764-20150413-RD12	WG-160900764-20150413-RD12A
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	B4I9252	B4M4069	B4M4069	B565881	B565881	B4I9252	B4M5208	B4M5208	B565881	B565881
Laboratory Sample ID				ZK6641	ZK6642	ABZ560	ABZ561	XY3183	YP9577	YP9578	ACK471	ACK472	XY3184	YQ4968	YQ4969	ACK469	ACK470
Filtered				Field Filtered Metals	Lab Filtered	Field Filtered Metals	Lab Filtered	Lab Filtered Metals	Field Filtered Metals	Lab Filtered	Field Filtered Metals	Lab Filtered	Lab Filtered Metals	Field Filtered Metals	Lab Filtered	Field Filtered Metals	Lab Filtered
Sample Type	Units	ODWS	Ontario SCS														
General Chemistry																	
Acidity	mg/L	n/v	n/v	30	-	15	-	12	-	-	12	-	13	-	-	10	-
Alkalinity, Bicarbonate (as CaCO3)	mg/L	n/v	n/v	200	-	200	-	200	200	-	200	-	210	180	-	180	-
Alkalinity, Carbonate (as CaCO3)	mg/L	n/v	n/v	1.6	-	1.2	-	1.8	2.5	-	<1	-	1.7	1.8	-	<1	-
Alkalinity, Total (as CaCO3)	mg/L	30-500[E]	n/v	200	-	200	-	200	200	-	200	-	210	190	-	180	-
Ammonia (as N)	mg/L	n/v	n/v	<0.050	-	<0.05	-	0.12	0.058	-	<0.05	-	0.10	0.060	-	<0.05	-
Anion Sum	meq/L	n/v	n/v	5.70	-	5.59	-	4.83	5.05	-	5.55	-	5.88	5.37	-	5.35	-
Cation Sum	meq/L	n/v	n/v	5.68	-	5.49	-	4.93	4.93	-	5.23	-	5.98	5.39	-	5.44	-
Chloride	mg/L	250[D]	790[GH]	8	-	8	-	10	16	-	24	-	27	29	-	29	-
Cyanide (Free)	µg/L	200[B]	52[GH]	<2	-	<2	-	< 2	-	-	<2	-	< 2	-	-	<2	-
Dissolved Organic Carbon (DOC)	mg/L	5[D]	n/v	1.2	-	0.69	-	2.9	2.3	-	1.4	-	2.1	1.4	-	0.86	-
Electrical Conductivity, Lab	µmhos/cm	n/v	n/a[GH]	550	-	540	-	420	470	-	510	-	530	520	-	520	-
Fluoride	mg/L	1.5_{h}[B]	n/v	<0.10	-	<0.1	-	0.26	-	-	0.26	-	0.17	-	-	0.20	-
Hardness (as CaCO3)	mg/L	80-100[E]	n/v	**280[E]**	-	**270[E]**	-	**210[E]**	**210[E]**	-	**230[E]**	-	**270[E]**	**250[E]**	-	**250[E]**	-
Ion Balance	%	n/v	n/v	0.180	-	0.890	-	0.990	1.16	-	2.91	-	0.830	0.190	-	0.830	-
Langelier Index (at 20 C)	none	n/v	n/v	0.800	-	0.633	-	0.469	0.591	-	-0.0400	-	0.600	0.525	-	-0.0500	-
Langelier Index (at 4 C)	none	n/v	n/v	0.551	-	0.384	-	0.220	0.341	-	-0.289	-	0.351	0.276	-	-0.299	-
Nitrate (as N)	mg/L	10.0_{g}[B]	n/v	**14.3[B]**	-	**13.9[B]**	-	< 0.10	< 0.10	-	<0.1	-	0.11	< 0.10	-	<0.1	-
Nitrate + Nitrite (as N)	mg/L	10.0_{g}[B]	n/v	**14.3[B]**	-	**13.9[B]**	-	< 0.10	< 0.10	-	-	-	0.11	< 0.10	-	-	-
Nitrite (as N)	mg/L	1.0_{g}[B]	n/v	<0.010	-	<0.01	-	< 0.010	< 0.010	-	<0.01	-	< 0.010	< 0.010	-	<0.01	-
Orthophosphate(as P)	mg/L	n/v	n/v	<0.010	-	<0.01	-	< 0.010	< 0.010	-	<0.01	-	< 0.010	< 0.010	-	<0.01	-
pH	S.U.	6.5-8.5[E]	n/v	7.94	-	7.81	-	7.98	8.13	-	7.47	-	7.94	8.02	-	7.47	-
Saturation pH (at 20 C)	none	n/v	n/v	7.14	-	7.18	-	7.51	7.54	-	7.51	-	7.34	7.50	-	7.52	-
Saturation pH (at 4 C)	none	n/v	n/v	7.39	-	7.43	-	7.76	7.79	-	7.76	-	7.59	7.75	-	7.77	-
Sulfate	mg/L	500_{h}[D]	n/v	18	-	20	-	24	27	-	39	-	40	40	-	44	-
Total Dissolved Solids	mg/L	500[D]	n/v	310	-	328	-	262	-	-	-	-	326	-	-	-	-
Total Dissolved Solids (Calculated)	mg/L	500[D]	n/v	330	-	320	-	-	270	-	-	-	-	290	-	-	-
Total Organic Carbon	mg/L	n/v	n/v	1.0	-	0.71	-	3.1	-	-	1.5	-	2.2	-	-	0.97	-
Total Suspended Solids	mg/L	n/v	n/v	14	-	85	-	310	120	-	21	-	560	59	-	19	-
Turbidity, Lab	ntu	5_{L}[D,E]	n/v	**19[D]**	-	**6.7[D]**	-	**96[D]**	**150[D]**	-	**7.2[D]**	-	**360[D]**	**57[D]**	-	**6.8[D]**	-
BTEX and Petroleum Hydrocarbons																	
Benzene	µg/L	5[B]	0.5_{s1}[G] 5_{s1}[H]	<0.20	-	<0.2	-	0.24	< 0.20	-	<0.2	-	< 0.20	< 0.20	-	<0.2	-
Toluene	µg/L	24[D]	24_{s7}[G] 22_{s7}[H]	<0.20	-	<0.2	-	2.5	< 0.20	-	<0.2	-	1.0	< 0.20	-	<0.2	-
Ethylbenzene	µg/L	2.4[D]	2.4[GH]	<0.20	-	<0.2	-	0.50	< 0.20	-	<0.2	-	0.21	< 0.20	-	<0.2	-
Xylene, m & p-	µg/L	300_{s1}[D]	[GH]	<0.20	-	<0.2	-	2.1	< 0.20	-	<0.2	-	1.4	< 0.20	-	<0.2	-
Xylene, o-	µg/L	300_{s1}[D]	[GH]	<0.20	-	<0.2	-	0.67	< 0.20	-	<0.2	-	0.44	< 0.20	-	<0.2	-
Xylenes, Total	µg/L	300[D]	72_{s1}[G] 300_{s1}[H]	<0.20	-	<0.2	-	2.8	< 0.20	-	<0.2	-	1.8	< 0.20	-	<0.2	-
PHC F1 (C6-C10 range)	µg/L	n/v	420_{s7}[G] 420_{s7}[H]	<25	-	<25	-	< 25	-	-	<25	-	< 25	-	-	<25	-
PHC F1 (C6-C10 range) minus BTEX	µg/L	n/v	420_{s7}[G] 420_{s7}[H]	<25	-	<25	-	< 25	-	-	<25	-	< 25	-	-	<25	-
PHC F2 (>C10-C16 range)	µg/L	n/v	150_{s15}[G] 150_{s15}[H]	<100	-	<100	-	< 100	-	-	<100	-	< 100	-	-	<100	-
PHC F3 (>C16-C34 range)	µg/L	n/v	500_{s8}[G] 500_{s8}[H]	<200	-	<200	-	< 200	-	-	<200	-	< 200	-	-	<200	-
PHC F4 (>C34-C50 range)	µg/L	n/v	500_{s10}[G] 500_{s10}[H]	<200	-	<200	-	< 200	-	-	<200	-	< 200	-	-	<200	-
Chromatogram to baseline at nC50	none	n/v	n/v	YES	-	YES	-	YES	-	-	YES	-	YES	-	-	YES	-

Summary of Groundwater Analytical Results - Monitoring Wells
Clarington Tranformer Station
Hydro One Networks Inc.

Sample Location				MW5-14-S (2)				MW6-14					MW7-14				
Sample Date				3-Feb-15	3-Feb-15	10-Apr-15	10-Apr-15	9-Oct-14	26-Nov-14	26-Nov-14	13-Apr-15	13-Apr-15	9-Oct-14	27-Nov-14	27-Nov-14	13-Apr-15	13-Apr-15
Sample ID				WG-160900764-20150203-RD03	WG-160900764-20150203-RD03A	WG-160900764-20150410-RD010	WG-160900764-20150410-RD10A	WG-160900764-20141009-AD02	WG-160900764-20141126 RD05	WG-160900764-20141126 RD05A	WG-160900764-20150413-RD13	WG-160900764-20150413-RD13A	WG-160900764-20141009-AD03	WG-160900764-20141127-RD10	WG-160900764-20141127-RD10A	WG-160900764-20150413-RD12	WG-160900764-20150413-RD12A
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	B4I9252	B4M4069	B4M4069	B565881	B565881	B4I9252	B4M5208	B4M5208	B565881	B565881
Laboratory Sample ID				ZK6641	ZK6642	ABZ560	ABZ561	XY3183	YP9577	YP9578	ACK471	ACK472	XY3184	YQ4968	YQ4969	ACK469	ACK470
Filtered				Field Filtered Metals	Lab Filtered	Field Filtered Metals	Lab Filtered	Lab Filtered Metals	Field Filtered Metals	Lab Filtered	Field Filtered Metals	Lab Filtered	Lab Filtered Metals	Field Filtered Metals	Lab Filtered	Field Filtered Metals	Lab Filtered
Sample Type	Units	ODWS	Ontario SCS														
Metals																	
Aluminum	µg/L	100[E]	n/v	<5	-	<5	-	27	20	26	12	-	16	16	10	11	-
Antimony	µg/L	6[C]	6[GH]	<0.5	-	<0.5	-	< 0.50	< 0.50	< 0.50	<0.5	-	< 0.50	< 0.50	< 0.50	<0.5	-
Arsenic	µg/L	25[C]	25[GH]	<1	-	<1	-	< 1.0	< 1.0	< 1.0	<1	-	< 1.0	< 1.0	< 1.0	<1	-
Barium	µg/L	1000[B]	1000[GH]	32	-	29	-	97	86	86	70	-	100	92	100	78	-
Beryllium	µg/L	n/v	4[GH]	<0.5	-	<0.5	-	< 0.50	< 0.50	< 0.50	<0.5	-	< 0.50	< 0.50	< 0.50	<0.5	-
Boron	µg/L	5000[C]	5000[GH]	17	-	<10	-	47	49	44	23	-	21	32	21	<10	-
Cadmium	µg/L	5[B]	2.1[GH]	<0.1	-	<0.1	-	< 0.10	< 0.10	< 0.10	<0.1	-	< 0.10	< 0.10	< 0.10	<0.1	-
Calcium	µg/L	n/v	n/v	95000	-	89000	-	39000	36000	41000	40000	-	57000	45000	48000	44000	-
Cesium	µg/L	n/v	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chromium (Hexavalent)	µg/L	n/v	25[GH]	<0.50	-	0.57	-	< 0.50	-	-	<0.5	-	< 0.50	-	-	<0.5	-
Chromium (Total)	µg/L	50[B]	50[GH]	<5	-	<5	-	< 5.0	< 5.0	< 5.0	<5	-	< 5.0	< 5.0	< 5.0	<5	-
Cobalt	µg/L	n/v	3.8[GH]	<0.5	-	<0.5	-	< 0.50	0.73	0.81	<0.5	-	< 0.50	1.0	1.1	<0.5	-
Copper	µg/L	1000[D]	69[GH]	<1	-	5.2	-	1.8	1.6	< 1.0	<1	-	1.6	1.5	< 1.0	<1	-
Iron	µg/L	300[D]	n/v	<100	-	<100	-	< 100	< 100	< 100	<100	-	< 100	< 100	< 100	<100	-
Lead	µg/L	10_e[B]	10[GH]	<0.5	-	<0.5	-	< 0.50	< 0.50	< 0.50	<0.5	-	< 0.50	< 0.50	< 0.50	<0.5	-
Magnesium	µg/L	n/v	n/v	9600	-	11000	-	26000	29000	29000	32000	-	31000	33000	36000	34000	-
Manganese	µg/L	50[D]	n/v	14	-	4.7	-	38	**79[D]**	**92[D]**	**120[D]**	-	31	**79[D]**	**86[D]**	28	-
Mercury	µg/L	1[B]	0.1[G] 0.29[H]	<0.1	-	<0.1	-	< 0.1	-	-	<0.1	-	< 0.1	-	-	<0.1	-
Molybdenum	µg/L	n/v	70[GH]	2.1	-	1.2	-	5.9	5.2	6.5	4.7	-	4.1	2.8	2.8	2.3	-
Nickel	µg/L	n/v	100[GH]	<1	-	1.5	-	1.6	< 1.0	< 1.0	<1	-	< 1.0	< 1.0	< 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	1300	-	1100	-	6200	4700	5000	4000	-	3700	2800	3300	2700	-
Rubidium	µg/L	n/v	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Selenium	µg/L	10[B]	10[GH]	<2	-	<2	-	< 2.0	< 2.0	< 2.0	<2	-	< 2.0	< 2.0	< 2.0	<2	-
Silicon	µg/L	n/v	n/v	4600	-	4600	-	7900	9200	8700	8500	-	10000	10000	11000	9700	-
Silver	µg/L	n/v	1.2[GH]	<0.1	-	<0.1	-	< 0.10	< 0.10	< 0.10	<0.1	-	< 0.10	< 0.10	< 0.10	<0.1	-
Sodium	µg/L	200000_g[D] 20000_g[F]	490000[GH]	3200	-	2800	-	15000	13000	12000	12000	-	11000	8700	8900	8600	-
Strontium	µg/L	n/v	n/v	190	-	180	-	450	520	490	500	-	420	420	480	410	-
Thallium	µg/L	n/v	2[GH]	<0.05	-	<0.05	-	< 0.050	< 0.050	< 0.050	<0.05	-	< 0.050	< 0.050	< 0.050	<0.05	-
Titanium	µg/L	n/v	n/v	<5	-	<5	-	< 5.0	< 5.0	< 5.0	<5	-	< 5.0	< 5.0	< 5.0	<5	-
Uranium	µg/L	20[B]	20[GH]	0.51	-	0.34	-	2.8	2.4	3.3	2.4	-	3.5	1.5	1.6	1.1	-
Vanadium	µg/L	n/v	6.2[GH]	<0.5	-	<0.5	-	0.57	< 0.50	< 0.50	<0.5	-	0.53	< 0.50	< 0.50	<0.5	-
Zinc	µg/L	5000[D]	890[GH]	<5	-	21	-	< 5.0	< 5.0	< 5.0	<5	-	< 5.0	5.3	< 5.0	<5	-
Zirconium	µg/L	n/v	n/v	<1	-	<1	-	< 1.0	< 1.0	< 1.0	<1	-	< 1.0	< 1.0	< 1.0	<1	-
Polychlorinated Biphenyls																	
Aroclor 1242	µg/L	n/v	0.2_{s14}[G] 0.2_{s14}[H]	<0.05	-	<0.05	-	< 0.05	-	-	<0.05	-	< 0.05	-	-	<0.05	-
Aroclor 1248	µg/L	n/v	0.2_{s14}[G] 0.2_{s14}[H]	<0.05	-	<0.05	-	< 0.05	-	-	<0.05	-	< 0.05	-	-	<0.05	-
Aroclor 1254	µg/L	n/v	0.2_{s14}[G] 0.2_{s14}[H]	<0.05	-	<0.05	-	< 0.05	-	-	<0.05	-	< 0.05	-	-	<0.05	-
Aroclor 1260	µg/L	n/v	0.2_{s14}[G] 0.2_{s14}[H]	<0.05	-	<0.05	-	< 0.05	-	-	<0.05	-	< 0.05	-	-	<0.05	-
Polychlorinated Biphenyls (PCBs)	µg/L	3[C]	0.2_{s14}[G] 0.2_{s14}[H]	<0.05	-	<0.05	-	< 0.05	-	-	<0.05	-	< 0.05	-	-	<0.05	-

Summary of Groundwater Analytical Results - Monitoring Wells
Clarington Tranformer Station
Hydro One Networks Inc.

Sample Location				MW5-14-S (2)				MW6-14					MW7-14				
Sample Date				3-Feb-15	3-Feb-15	10-Apr-15	10-Apr-15	9-Oct-14	26-Nov-14	26-Nov-14	13-Apr-15	13-Apr-15	9-Oct-14	27-Nov-14	27-Nov-14	13-Apr-15	13-Apr-15
Sample ID				WG-160900764-20150203-RD03	WG-160900764-20150203-RD03A	WG-160900764-20150410-RD10	WG-160900764-20150410-RD10A	WG-160900764-20141009-AD02	WG-160900764-20141126 RD05	WG-160900764-20141126 RD05A	WG-160900764-20150413-RD13	WG-160900764-20150413-RD13A	WG-160900764-20141009-AD03	WG-160900764-20141127-RD10	WG-160900764-20141127-RD10A	WG-160900764-20150413-RD12	WG-160900764-20150413-RD12A
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	B4I9252	B4M4069	B4M4069	B565881	B565881	B4I9252	B4M5208	B4M5208	B565881	B565881
Laboratory Sample ID				ZK6641	ZK6642	ABZ560	ABZ561	XY3183	YP9577	YP9578	ACK471	ACK472	XY3184	YQ4968	YQ4969	ACK469	ACK470
Filtered				Field Filtered Metals	Lab Filtered	Field Filtered Metals	Lab Filtered	Lab Filtered Metals	Field Filtered Metals	Lab Filtered	Field Filtered Metals	Lab Filtered	Lab Filtered Metals	Field Filtered Metals	Lab Filtered	Field Filtered Metals	Lab Filtered
Sample Type	**Units**	**ODWS**	**Ontario SCS**														
Semi - Volatile Organic Compounds																	
Phthalates																	
Bis(2-Ethylhexyl)phthalate (DEHP)	µg/L	n/v	10[GH]	<1	<1	<1	<1	< 1	< 1	< 1	<1	<1	1	< 1	< 1	<1	<1
Diethyl Phthalate	µg/L	n/v	30[GH]	<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[GH]	<0.1	<0.1	<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[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
Acenaphthylene	µg/L	n/v	1[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
Anthracene	µg/L	n/v	1[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(a)anthracene	µg/L	n/v	1[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(a)pyrene	µg/L	0.01[B]	0.01[GH]	<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[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
Benzo(g,h,i)perylene	µg/L	n/v	0.2[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(k)fluoranthene	µg/L	n/v	0.1[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
Chrysene	µg/L	n/v	0.1[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
Dibenzo(a,h)anthracene	µg/L	n/v	0.2[GH]	<0.1	<0.1	<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[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
Fluorene	µg/L	n/v	120[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
Indeno(1,2,3-cd)pyrene	µg/L	n/v	0.2[GH]	<0.1	<0.1	<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[t3-G] 3.2[t3-H]	<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
Methylnaphthalene, 1-	µg/L	n/v	[t3-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
Methylnaphthalene, 2-	µg/L	n/v	[t3-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
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
Phenanthrene	µg/L	n/v	1GH	<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
Pyrene	µg/L	n/v	4.1[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
Remaining Semi - Volatile Organic Compounds																	
Biphenyl, 1,1'- (Biphenyl)	µg/L	n/v	0.5[GH]	<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
Bis(2-Chloroethyl)ether	µg/L	n/v	5[GH]	<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[GH]	<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[GH]	<1	<1	<1	<1	< 1	< 1	< 1	<1	<1	< 1	< 1	< 1	<1	<1
Chlorophenol, 2- (ortho-Chlorophenol)	µg/L	n/v	8.9[GH]	<0.1	<0.1	<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[GH]	<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[B] 0.3[t-D]	20[GH]	<0.1	<0.1	<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[GH]	<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[GH]	<2	<2	<2	<2	< 2	< 2	< 2	<2	<2	< 2	< 2	< 2	<2	<2
Dinitrotoluene, 2,4-	µg/L	n/v	5[t13-G] 5[t13-H]	<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-G] 5[t13-H]	<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[B] 30[t-D]	30[GH]	<0.1	<0.1	<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[GH]	<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[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
Trichlorophenol, 2,4,6-	µg/L	5[B] 2[t-D]	2[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

Summary of Groundwater Analytical Results - Monitoring Wells
Clarington Tranformer Station
Hydro One Networks Inc.

Sample Location				MW5-14-S (2)				MW6-14					MW7-14				
Sample Date				3-Feb-15	3-Feb-15	10-Apr-15	10-Apr-15	9-Oct-14	26-Nov-14	26-Nov-14	13-Apr-15	13-Apr-15	9-Oct-14	27-Nov-14	27-Nov-14	13-Apr-15	13-Apr-15
Sample ID				WG-160900764-20150203-RD03	WG-160900764-20150203-RD03A	WG-160900764-20150410-RD010	WG-160900764-20150410-RD10A	WG-160900764-20141009-AD02	WG-160900764-20141126 RD05	WG-160900764-20141126 RD05A	WG-160900764-20150413-RD13	WG-160900764-20150413-RD13A	WG-160900764-20141009-AD03	WG-160900764-20141127-RD10	WG-160900764-20141127-RD10A	WG-160900764-20150413-RD12	WG-160900764-20150413-RD12A
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	B4I9252	B4M4069	B4M4069	B565881	B565881	B4I9252	B4M5208	B4M5208	B565881	B565881
Laboratory Sample ID				ZK6641	ZK6642	ABZ560	ABZ561	XY3183	YP9577	YP9578	ACK471	ACK472	XY3184	YQ4968	YQ4969	ACK469	ACK470
Filtered				Field Filtered Metals	Lab Filtered	Field Filtered Metals	Lab Filtered	Lab Filtered Metals	Field Filtered Metals	Lab Filtered	Field Filtered Metals	Lab Filtered	Lab Filtered Metals	Field Filtered Metals	Lab Filtered	Field Filtered Metals	Lab Filtered
Sample Type	Units	ODWS	Ontario SCS														
Volatile Organic Compounds																	
Acetone	µg/L	n/v	2700[GH]	<10	-	<10	-	16	< 10	-	<10	-	10	< 10	-	<10	-
Bromodichloromethane	µg/L	n/v	16[GH]	<0.50	-	<0.5	-	< 0.50	< 0.50	-	<0.5	-	< 0.50	< 0.50	-	<0.5	-
Bromoform (Tribromomethane)	µg/L	n/v	5[G] 25[H]	<1.0	-	<1	-	< 1.0	< 1.0	-	<1	-	< 1.0	< 1.0	-	<1	-
Bromomethane (Methyl bromide)	µg/L	n/v	0.89[GH]	<0.50	-	<0.5	-	< 0.50	< 0.50	-	<0.5	-	< 0.50	< 0.50	-	<0.5	-
Carbon Tetrachloride (Tetrachloromethane)	µg/L	5[B]	0.2[G] 0.79[H]	<0.20	-	<0.2	-	< 0.20	< 0.20	-	<0.2	-	< 0.20	< 0.20	-	<0.2	-
Chlorobenzene (Monochlorobenzene)	µg/L	80[B] 30$_t$[D]	30[GH]	<0.20	-	<0.2	-	< 0.20	< 0.20	-	<0.2	-	< 0.20	< 0.20	-	<0.2	-
Chloroform (Trichloromethane)	µg/L	n/v	2[G] 2.4[H]	<0.20	-	<0.2	-	< 0.20	< 0.20	-	<0.2	-	< 0.20	< 0.20	-	<0.2	-
Dibromochloromethane	µg/L	n/v	25[GH]	<0.50	-	<0.5	-	< 0.50	< 0.50	-	<0.5	-	< 0.50	< 0.50	-	<0.5	-
Dichlorobenzene, 1,2-	µg/L	200[B] 3$_t$[D]	3[GH]	<0.50	-	<0.5	-	< 0.50	< 0.50	-	<0.5	-	< 0.50	< 0.50	-	<0.5	-
Dichlorobenzene, 1,3-	µg/L	n/v	59[GH]	<0.50	-	<0.5	-	< 0.50	< 0.50	-	<0.5	-	< 0.50	< 0.50	-	<0.5	-
Dichlorobenzene, 1,4-	µg/L	5[B] 1$_t$[D]	0.5[G] 1[H]	<0.50	-	<0.5	-	< 0.50	< 0.50	-	<0.5	-	< 0.50	< 0.50	-	<0.5	-
Dichlorodifluoromethane (Freon 12)	µg/L	n/v	590[GH]	<1.0	-	<1	-	< 1.0	< 1.0	-	<1	-	< 1.0	< 1.0	-	<1	-
Dichloroethane, 1,1-	µg/L	n/v	5[GH]	<0.20	-	<0.2	-	< 0.20	< 0.20	-	<0.2	-	< 0.20	< 0.20	-	<0.2	-
Dichloroethane, 1,2-	µg/L	5[C]	0.5[G] 1.6[H]	<0.50	-	<0.5	-	< 0.50	< 0.50	-	<0.5	-	< 0.50	< 0.50	-	<0.5	-
Dichloroethene, 1,1-	µg/L	14[B]	0.5[G] 1.6[H]	<0.20	-	<0.2	-	< 0.20	< 0.20	-	<0.2	-	< 0.20	< 0.20	-	<0.2	-
Dichloroethene, cis-1,2-	µg/L	n/v	1.6[GH]	<0.50	-	<0.5	-	< 0.50	< 0.50	-	<0.5	-	< 0.50	< 0.50	-	<0.5	-
Dichloroethene, trans-1,2-	µg/L	n/v	1.6[GH]	<0.50	-	<0.5	-	< 0.50	< 0.50	-	<0.5	-	< 0.50	< 0.50	-	<0.5	-
Dichloropropane, 1,2-	µg/L	n/v	0.58[G] 5[H]	<0.20	-	<0.2	-	< 0.20	< 0.20	-	<0.2	-	< 0.20	< 0.20	-	<0.2	-
Dichloropropene, 1,3- (sum of isomers cis + trans)	µg/L	n/v	0.5$_{s11}$[G] 0.5$_{s11}$[H]	<0.50	-	<0.5	-	< 0.50	< 0.50	-	<0.5	-	< 0.50	< 0.50	-	<0.5	-
Dichloropropene, cis-1,3-	µg/L	n/v	$_{s11}^{GH}$	<0.30	-	<0.3	-	< 0.30	< 0.30	-	<0.3	-	< 0.30	< 0.30	-	<0.3	-
Dichloropropene, trans-1,3-	µg/L	n/v	$_{s11}^{GH}$	<0.40	-	<0.4	-	< 0.40	< 0.40	-	<0.4	-	< 0.40	< 0.40	-	<0.4	-
Ethylene Dibromide (Dibromoethane, 1,2-)	µg/L	n/v	0.2[GH]	<0.20	-	<0.2	-	< 0.20	< 0.20	-	<0.2	-	< 0.20	< 0.20	-	<0.2	-
Hexane (n-Hexane)	µg/L	n/v	5[G] 51[H]	<1.0	-	<1	-	< 1.0	< 1.0	-	<1	-	< 1.0	< 1.0	-	<1	-
Methyl Ethyl Ketone (MEK)	µg/L	n/v	1800[GH]	<10	-	<10	-	< 10	< 10	-	<10	-	< 10	< 10	-	<10	-
Methyl Isobutyl Ketone (MIBK)	µg/L	n/v	640[GH]	<5.0	-	<5	-	< 5.0	< 5.0	-	<5	-	< 5.0	< 5.0	-	<5	-
Methyl tert-butyl ether (MTBE)	µg/L	n/v	15[GH]	<0.50	-	<0.5	-	< 0.50	< 0.50	-	<0.5	-	< 0.50	< 0.50	-	<0.5	-
Methylene Chloride (Dichloromethane)	µg/L	50[B]	26[G] 50[H]	<2.0	-	<2	-	< 2.0	< 2.0	-	<2	-	< 2.0	< 2.0	-	<2	-
Styrene	µg/L	n/v	5.4[GH]	<0.50	-	<0.5	-	< 0.50	< 0.50	-	<0.5	-	< 0.50	< 0.50	-	<0.5	-
Tetrachloroethane, 1,1,1,2-	µg/L	n/v	1.1[GH]	<0.50	-	<0.5	-	< 0.50	< 0.50	-	<0.5	-	< 0.50	< 0.50	-	<0.5	-
Tetrachloroethane, 1,1,2,2-	µg/L	n/v	0.5[G] 1[H]	<0.50	-	<0.5	-	< 0.50	< 0.50	-	<0.5	-	< 0.50	< 0.50	-	<0.5	-
Tetrachloroethene (PCE)	µg/L	30[B]	0.5[G] 1.6[H]	<0.20	-	<0.2	-	< 0.20	< 0.20	-	<0.2	-	< 0.20	< 0.20	-	<0.2	-
Trichloroethane, 1,1,1-	µg/L	n/v	23[G] 200[H]	<0.20	-	<0.2	-	< 0.20	< 0.20	-	<0.2	-	< 0.20	< 0.20	-	<0.2	-
Trichloroethane, 1,1,2-	µg/L	n/v	0.5[G] 4.7[H]	<0.50	-	<0.5	-	< 0.50	< 0.50	-	<0.5	-	< 0.50	< 0.50	-	<0.5	-
Trichloroethene (TCE)	µg/L	5[B]	0.5[G] 1.6[H]	<0.20	-	<0.2	-	< 0.20	< 0.20	-	<0.2	-	< 0.20	< 0.20	-	<0.2	-
Trichlorofluoromethane (Freon 11)	µg/L	n/v	150[GH]	<0.50	-	<0.5	-	< 0.50	< 0.50	-	<0.5	-	< 0.50	< 0.50	-	<0.5	-
Vinyl chloride	µg/L	2[B]	0.5[GH]	<0.20	-	<0.2	-	< 0.20	< 0.20	-	<0.2	-	< 0.20	< 0.20	-	<0.2	-

See notes on last page

Summary of Groundwater Analytical Results - Monitoring Wells
Clarington Tranformer Station
Hydro One Networks Inc.

Sample Location				MW8-15								FIELD BLANK							
Sample Date				4-Feb-15	4-Feb-15	4-Feb-15	4-Feb-15	14-Apr-15	14-Apr-15	14-Apr-15	14-Apr-15	20-Nov-14	20-Nov-14	26-Nov-14	26-Nov-14	26-Nov-14	27-Nov-14	27-Nov-14	27-Nov-14
Sample ID				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	WG-160900764-20141120-CD05	FILTERED BLANK	WG-160900764-20141126 RD06	FILTERED BLANK	WG-160900764-20141126 RD06A	FILTERED BLANK	WG-160900764-20141127-RD11	WG-160900764-20141127-RD11A
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				B520805	B520805	B520805	B520805	B565881	B565881	B565881	B565881	B4M0745	B4M0745	B4M4069	B4M4069	B4M4069	B4M5208	B4M5208	B4M5208
Laboratory Sample ID				ZK6647	ZK6649	ZK6648	ZL1119	ACK473	ACK477	ACK474	ACK478	YO3448	YO3766	YP9579	YP9675	YP9580	YQ5179	YQ4970	YQ4971
Filtered				Field Filtered Metals	Field Filtered Metals	Lab Filtered	Lab Filtered	Field Filtered Metals	Field Filtered Metals	Lab Filtered	Lab Filtered	-	Lab Filtered	-	Lab Filtered	-	Lab Filtered	-	Lab Filtered
Sample Type	Units	ODWS	Ontario SCS		Field Duplicate		Field Duplicate		Field Duplicate		Field Duplicate	Field Blank	Field Blank	Field Blank	Field Blank	Field Blank	Field Blank	Field Blank	Field Blank
General Chemistry																			
Acidity	mg/L	n/v	n/v	15	10	-	-	13	17	-	-	-	-	-	-	-	-	-	-
Alkalinity, Bicarbonate (as CaCO3)	mg/L	n/v	n/v	210	210	-	-	220	210	-	-	-	-	-	-	-	-	-	-
Alkalinity, Carbonate (as CaCO3)	mg/L	n/v	n/v	1.8	1.6	-	-	<1	<1	-	-	-	-	-	-	-	-	-	-
Alkalinity, Total (as CaCO3)	mg/L	30-500[E]	n/v	210	210	-	-	220	210	-	-	-	-	-	-	-	-	-	-
Ammonia (as N)	mg/L	n/v	n/v	<0.050	0.065	-	-	0.35	<0.05	-	-	-	-	-	-	-	-	-	-
Anion Sum	meq/L	n/v	n/v	6.92	6.93	-	-	6.58	6.52	-	-	-	-	-	-	-	-	-	-
Cation Sum	meq/L	n/v	n/v	7.10	6.94	-	-	6.79	6.91	-	-	-	-	-	-	-	-	-	-
Chloride	mg/L	250[D]	790[GH]	16	16	-	-	15	15	-	-	-	-	-	-	-	-	-	-
Cyanide (Free)	µg/L	200[B]	52[GH]	<2	<2	-	-	<2	<2	-	-	-	-	-	-	-	-	-	-
Dissolved Organic Carbon (DOC)	mg/L	5[D]	n/v	4.1	4.1	-	-	1.1	1.1	-	-	-	-	-	-	-	-	-	-
Electrical Conductivity, Lab	µmhos/cm	n/v	n/a[GH]	640	640	-	-	610	610	-	-	-	-	-	-	-	-	-	-
Fluoride	mg/L	1.5_{h}[B]	n/v	0.13	0.13	-	-	0.11	0.11	-	-	-	-	-	-	-	-	-	-
Hardness (as CaCO3)	mg/L	80-100[E]	n/v	**320[E]**	**310[E]**	-	-	**320[E]**	**320[E]**	-	-	-	-	-	-	-	-	-	-
Ion Balance	%	n/v	n/v	1.25	0.0600	-	-	1.51	2.90	-	-	-	-	-	-	-	-	-	-
Langelier Index (at 20 C)	none	n/v	n/v	0.717	0.670	-	-	0.290	0.317	-	-	-	-	-	-	-	-	-	-
Langelier Index (at 4 C)	none	n/v	n/v	0.468	0.422	-	-	0.0410	0.0690	-	-	-	-	-	-	-	-	-	-
Nitrate (as N)	mg/L	10.0_{d}[B]	n/v	<0.10	<0.10	-	-	<0.1	<0.1	-	-	-	-	-	-	-	-	-	-
Nitrate + Nitrite (as N)	mg/L	10.0_{d}[B]	n/v	<0.10	<0.10	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nitrite (as N)	mg/L	1.0_{d}[B]	n/v	<0.010	<0.010	-	-	<0.01	<0.01	-	-	-	-	-	-	-	-	-	-
Orthophosphate(as P)	mg/L	n/v	n/v	<0.010	<0.010	-	-	<0.01	<0.01	-	-	-	-	-	-	-	-	-	-
pH	S.U.	6.5-8.5[E]	n/v	7.95	7.90	-	-	7.51	7.54	-	-	-	-	-	-	-	-	-	-
Saturation pH (at 20 C)	none	n/v	n/v	7.23	7.23	-	-	7.22	7.22	-	-	-	-	-	-	-	-	-	-
Saturation pH (at 4 C)	none	n/v	n/v	7.48	7.48	-	-	7.47	7.47	-	-	-	-	-	-	-	-	-	-
Sulfate	mg/L	500_{h}[D]	n/v	110	110	-	-	88	88	-	-	-	-	-	-	-	-	-	-
Total Dissolved Solids	mg/L	500[D]	n/v	404	394	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Dissolved Solids (Calculated)	mg/L	500[D]	n/v	400	390	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Organic Carbon	mg/L	n/v	n/v	3.6	3.4	-	-	1.2	1.2	-	-	-	-	-	-	-	-	-	-
Total Suspended Solids	mg/L	n/v	n/v	19	14	-	-	<10	<10	-	-	-	-	-	-	-	-	-	-
Turbidity, Lab	ntu	5_{L}[D,E]	n/v	**15[D]**	**13[D]**	-	-	2.2	2.3	-	-	-	-	-	-	-	-	-	-
BTEX and Petroleum Hydrocarbons																			
Benzene	µg/L	5[B]	0.5[G] 5[H]	<0.20	<0.20	-	-	<0.2	<0.2	-	-	< 0.20	-	-	-	-	-	< 0.20	-
Toluene	µg/L	24[D]	24[G] 22[H]	<0.20	<0.20	-	-	<0.2	<0.2	-	-	< 0.20	-	-	-	-	-	< 0.20	-
Ethylbenzene	µg/L	2.4[D]	2.4[GH]	<0.20	<0.20	-	-	<0.2	<0.2	-	-	< 0.20	-	-	-	-	-	< 0.20	-
Xylene, m & p-	µg/L	300_{s1}[D]	[GH]	<0.20	<0.20	-	-	<0.2	<0.2	-	-	< 0.20	-	-	-	-	-	< 0.20	-
Xylene, o-	µg/L	300_{s1}[D]	[GH]	<0.20	<0.20	-	-	<0.2	<0.2	-	-	< 0.20	-	-	-	-	-	< 0.20	-
Xylenes, Total	µg/L	300[D]	72_{s1}[G] 300_{s1}[H]	<0.20	<0.20	-	-	<0.2	<0.2	-	-	< 0.20	-	-	-	-	-	< 0.20	-
PHC F1 (C6-C10 range)	µg/L	n/v	420_{s7}[G] 420_{s7}[H]	<25	<25	-	-	<25	<25	-	-	-	-	-	-	-	-	-	-
PHC F1 (C6-C10 range) minus BTEX	µg/L	n/v	420_{s7}[G] 420_{s7}[H]	<25	<25	-	-	<25	<25	-	-	-	-	-	-	-	-	-	-
PHC F2 (>C10-C16 range)	µg/L	n/v	150_{s15}[G] 150_{s15}[H]	<100	<100	-	-	<100	<100	-	-	-	-	-	-	-	-	-	-
PHC F3 (>C16-C34 range)	µg/L	n/v	500_{s8}[G] 500_{s8}[H]	<200	<200	-	-	<200	<200	-	-	-	-	-	-	-	-	-	-
PHC F4 (>C34-C50 range)	µg/L	n/v	500_{s10}[G] 500_{s10}[H]	<200	<200	-	-	<200	<200	-	-	-	-	-	-	-	-	-	-
Chromatogram to baseline at nC50	none	n/v	n/v	YES	YES	-	-	YES	YES	-	-	-	-	-	-	-	-	-	-

Summary of Groundwater Analytical Results - Monitoring Wells
Clarington Tranformer Station
Hydro One Networks Inc.

Sample Location				MW8-15								FIELD BLANK							
Sample Date				4-Feb-15	4-Feb-15	4-Feb-15	4-Feb-15	14-Apr-15	14-Apr-15	14-Apr-15	14-Apr-15	20-Nov-14	20-Nov-14	26-Nov-14	26-Nov-14	26-Nov-14	27-Nov-14	27-Nov-14	27-Nov-14
Sample ID				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	WG-160900764-20141120-CD05	FILTERED BLANK	WG-160900764-20141126 RD06	FILTERED BLANK	WG-160900764-20141126 RD06A	FILTERED BLANK	WG-160900764-20141127-RD11	WG-160900764-20141127-RD11A
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				B520805	B520805	B520805	B520805	B565881	B565881	B565881	B565881	B4M0745	B4M0745	B4M4069	B4M4069	B4M4069	B4M5208	B4M5208	B4M5208
Laboratory Sample ID				ZK6647	ZK6649	ZK6648	ZL1119	ACK473	ACK477	ACK474	ACK478	YO3448	YO3766	YP9579	YP9675	YP9580	YQ5179	YQ4970	YQ4971
Filtered				Field Filtered Metals	Field Filtered Metals	Lab Filtered	Lab Filtered	Field Filtered Metals	Field Filtered Metals	Lab Filtered	Lab Filtered	-	Lab Filtered	-	Lab Filtered	-	Lab Filtered	-	Lab Filtered
Sample Type	Units	ODWS	Ontario SCS		Field Duplicate		Field Duplicate		Field Duplicate		Field Duplicate	Field Blank	Field Blank	Field Blank	Field Blank	Field Blank	Field Blank	Field Blank	Field Blank
Metals																			
Aluminum	µg/L	100[E]	n/v	<5	<5	-	-	<5	5.9	-	-	-	-	-	-	-	-	-	-
Antimony	µg/L	6[C]	6[GH]	<0.5	<0.5	-	-	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-
Arsenic	µg/L	25[C]	25[GH]	1.4	1.3	-	-	1.6	1.7	-	-	-	-	-	-	-	-	-	-
Barium	µg/L	1000[B]	1000[GH]	72	73	-	-	65	64	-	-	-	-	-	-	-	-	-	-
Beryllium	µg/L	n/v	4[GH]	<0.5	<0.5	-	-	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-
Boron	µg/L	5000[C]	5000[GH]	17	17	-	-	<10	<10	-	-	-	-	-	-	-	-	-	-
Cadmium	µg/L	5[B]	2.1[GH]	<0.1	<0.1	-	-	<0.1	<0.1	-	-	-	-	-	-	-	-	-	-
Calcium	µg/L	n/v	n/v	77000	76000	-	-	77000	78000	-	-	-	-	-	-	-	-	-	-
Cesium	µg/L	n/v	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chromium (Hexavalent)	µg/L	n/v	25[GH]	<0.50	<0.50	-	-	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-
Chromium (Total)	µg/L	50[B]	50[GH]	<5	<5	-	-	<5	<5	-	-	-	-	-	-	-	-	-	-
Cobalt	µg/L	n/v	3.8[GH]	<0.5	<0.5	-	-	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-
Copper	µg/L	1000[D]	69[GH]	<1	<1	-	-	<1	<1	-	-	-	-	-	-	-	-	-	-
Iron	µg/L	300[D]	n/v	270	280	-	-	**530[D]**	**540[D]**	-	-	-	-	-	-	-	-	-	-
Lead	µg/L	10_c[B]	10[GH]	<0.5	<0.5	-	-	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-
Magnesium	µg/L	n/v	n/v	30000	29000	-	-	30000	31000	-	-	-	-	-	-	-	-	-	-
Manganese	µg/L	50[D]	n/v	21	20	-	-	20	20	-	-	-	-	-	-	-	-	-	-
Mercury	µg/L	1[B]	0.1[G] 0.29[H]	<0.1	<0.1	-	-	<0.1	<0.1	-	-	-	-	-	-	-	-	-	-
Molybdenum	µg/L	n/v	70[GH]	1.9	2	-	-	1.2	1.1	-	-	-	-	-	-	-	-	-	-
Nickel	µg/L	n/v	100[GH]	<1	<1	-	-	<1	<1	-	-	-	-	-	-	-	-	-	-
Phosphorus	µg/L	n/v	n/v	<100	<100	-	-	<100	<100	-	-	-	-	-	-	-	-	-	-
Potassium	µg/L	n/v	n/v	2500	2500	-	-	2300	2300	-	-	-	-	-	-	-	-	-	-
Rubidium	µg/L	n/v	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Selenium	µg/L	10[B]	10[GH]	<2	<2	-	-	<2	<2	-	-	-	-	-	-	-	-	-	-
Silicon	µg/L	n/v	n/v	10000	10000	-	-	10000	10000	-	-	-	-	-	-	-	-	-	-
Silver	µg/L	n/v	1.2[GH]	<0.1	<0.1	-	-	<0.1	<0.1	-	-	-	-	-	-	-	-	-	-
Sodium	µg/L	200000[D] 20000_g[F]	490000[GH]	16000	15000	-	-	8300	8500	-	-	-	-	-	-	-	-	-	-
Strontium	µg/L	n/v	n/v	330	330	-	-	290	300	-	-	-	-	-	-	-	-	-	-
Thallium	µg/L	n/v	2[GH]	<0.05	<0.05	-	-	<0.05	<0.05	-	-	-	-	-	-	-	-	-	-
Titanium	µg/L	n/v	n/v	<5	<5	-	-	<5	<5	-	-	-	-	-	-	-	-	-	-
Uranium	µg/L	20[B]	20[GH]	0.69	0.69	-	-	0.25	0.26	-	-	-	-	-	-	-	-	-	-
Vanadium	µg/L	n/v	6.2[GH]	<0.5	<0.5	-	-	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-
Zinc	µg/L	5000[D]	890[GH]	<5	<5	-	-	<5	<5	-	-	-	-	-	-	-	-	-	-
Zirconium	µg/L	n/v	n/v	<1	<1	-	-	<1	<1	-	-	-	-	-	-	-	-	-	-
Polychlorinated Biphenyls																			
Aroclor 1242	µg/L	n/v	0.2_{s14}[G] 0.2_{s14}[H]	<0.05	<0.05	-	-	<0.05	<0.05	-	-	-	-	-	-	-	-	-	-
Aroclor 1248	µg/L	n/v	0.2_{s14}[G] 0.2_{s14}[H]	<0.05	<0.05	-	-	<0.05	<0.05	-	-	-	-	-	-	-	-	-	-
Aroclor 1254	µg/L	n/v	0.2_{s14}[G] 0.2_{s14}[H]	<0.05	<0.05	-	-	<0.05	<0.05	-	-	-	-	-	-	-	-	-	-
Aroclor 1260	µg/L	n/v	0.2_{s14}[G] 0.2_{s14}[H]	<0.05	<0.05	-	-	<0.05	<0.05	-	-	-	-	-	-	-	-	-	-
Polychlorinated Biphenyls (PCBs)	µg/L	3[C]	0.2_{s14}[G] 0.2_{s14}[H]	<0.05	<0.05	-	-	<0.05	<0.05	-	-	-	-	-	-	-	-	-	-

Summary of Groundwater Analytical Results - Monitoring Wells
Clarington Tranformer Station
Hydro One Networks Inc.

Sample Location				MW8-15								FIELD BLANK							
Sample Date				4-Feb-15	4-Feb-15	4-Feb-15	4-Feb-15	14-Apr-15	14-Apr-15	14-Apr-15	14-Apr-15	20-Nov-14	20-Nov-14	26-Nov-14	26-Nov-14	26-Nov-14	27-Nov-14	27-Nov-14	27-Nov-14
Sample ID				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	WG-160900764-20141120-CD05	FILTERED BLANK	WG-160900764-20141126 RD06	FILTERED BLANK	WG-160900764-20141126 RD06A	FILTERED BLANK	WG-160900764-20141127-RD11	WG-160900764-20141127-RD11A
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				B520805	B520805	B520805	B520805	B565881	B565881	B565881	B565881	B4M0745	B4M0745	B4M4069	B4M4069	B4M4069	B4M5208	B4M5208	B4M5208
Laboratory Sample ID				ZK6647	ZK6649	ZK6648	ZL1119	ACK473	ACK477	ACK474	ACK478	YO3448	YO3766	YP9579	YP9675	YP9580	YQ5179	YQ4970	YQ4971
Filtered				Field Filtered Metals	Field Filtered Metals	Lab Filtered	Lab Filtered	Field Filtered Metals	Field Filtered Metals	Lab Filtered	Lab Filtered	-	Lab Filtered	-	Lab Filtered	-	Lab Filtered	-	Lab Filtered
Sample Type	Units	ODWS	Ontario SCS		Field Duplicate		Field Duplicate		Field Duplicate		Field Duplicate	Field Blank	Field Blank	Field Blank	Field Blank	Field Blank	Field Blank	Field Blank	Field Blank
Semi - Volatile Organic Compounds																			
Phthalates																			
Bis(2-Ethylhexyl)phthalate (DEHP)	µg/L	n/v	10^{GH}	<1	<1	<1	<1	<1	<1	<1	<1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Diethyl Phthalate	µg/L	n/v	30^{GH}	<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	< 0.1	< 0.1	< 0.1
Dimethyl Phthalate	µg/L	n/v	30^{GH}	<0.1	<0.1	<0.1	<0.1	<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^{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
Acenaphthylene	µg/L	n/v	1^{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
Anthracene	µg/L	n/v	1^{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(a)anthracene	µg/L	n/v	1^{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(a)pyrene	µg/L	0.01^{B}	0.01^{GH}	<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	$0.1_{t2}{}^{G}$ $0.1_{t2}{}^{H}$	<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(g,h,i)perylene	µg/L	n/v	0.2^{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(k)fluoranthene	µg/L	n/v	0.1^{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
Chrysene	µg/L	n/v	0.1^{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
Dibenzo(a,h)anthracene	µg/L	n/v	0.2^{GH}	<0.1	<0.1	<0.1	<0.1	<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^{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
Fluorene	µg/L	n/v	120^{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
Indeno(1,2,3-cd)pyrene	µg/L	n/v	0.2^{GH}	<0.1	<0.1	<0.1	<0.1	<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	$3.2_{z3}{}^{G}$ $3.2_{z3}{}^{H}$	<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	$_{z3}{}^{GH}$	<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	$_{z3}{}^{GH}$	<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	1GH	<0.1	<0.1	<0.1	<0.1	<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^{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
Remaining Semi - Volatile Organic Compounds																			
Biphenyl, 1,1'- (Biphenyl)	µg/L	n/v	0.5^{GH}	<0.1	<0.1	<0.1	<0.1	<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^{GH}	<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^{GH}	<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^{GH}	<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^{GH}	<0.1	<0.1	<0.1	<0.1	<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^{GH}	<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^{B} $0.3_{t}{}^{D}$	20^{GH}	<0.1	<0.1	<0.1	<0.1	<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^{GH}	<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^{GH}	<2	<2	<2	<2	<2	<2	<2	<2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Dinitrotoluene, 2,4-	µg/L	n/v	$5_{s13}{}^{G}$ $5_{s13}{}^{H}$	<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	$5_{s13}{}^{G}$ $5_{s13}{}^{H}$	<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^{B} $30_{t}{}^{D}$	30^{GH}	<0.1	<0.1	<0.1	<0.1	<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^{GH}	<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^{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
Trichlorophenol, 2,4,6-	µg/L	5^{B} $2_{t}{}^{D}$	2^{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

Summary of Groundwater Analytical Results - Monitoring Wells
Clarington Tranformer Station
Hydro One Networks Inc.

Sample Location				MW8-15								FIELD BLANK							
Sample Date				4-Feb-15	4-Feb-15	4-Feb-15	4-Feb-15	14-Apr-15	14-Apr-15	14-Apr-15	14-Apr-15	20-Nov-14	20-Nov-14	26-Nov-14	26-Nov-14	26-Nov-14	27-Nov-14	27-Nov-14	27-Nov-14
Sample ID				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	WG-160900764-20141120-CD05	FILTERED BLANK	WG-160900764-20141126 RD06	FILTERED BLANK	WG-160900764-20141126 RD06A	FILTERED BLANK	WG-160900764-20141127-RD11	WG-160900764-20141127-RD11A
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				B520805	B520805	B520805	B520805	B565881	B565881	B565881	B565881	B4M0745	B4M0745	B4M4069	B4M4069	B4M4069	B4M5208	B4M5208	B4M5208
Laboratory Sample ID				ZK6647	ZK6649	ZK6648	ZL1119	ACK473	ACK477	ACK474	ACK478	YO3448	YO3766	YP9579	YP9675	YP9580	YQ5179	YQ4970	YQ4971
Filtered				Field Filtered Metals	Field Filtered Metals	Lab Filtered	Lab Filtered	Field Filtered Metals	Field Filtered Metals	Lab Filtered	Lab Filtered	-	Lab Filtered	-	Lab Filtered	-	Lab Filtered	-	Lab Filtered
Sample Type	**Units**	**ODWS**	**Ontario SCS**		Field Duplicate		Field Duplicate		Field Duplicate		Field Duplicate	Field Blank	Field Blank	Field Blank	Field Blank	Field Blank	Field Blank	Field Blank	Field Blank
Volatile Organic Compounds																			
Acetone	µg/L	n/v	2700[GH]	<10	<10	-	-	<10	<10	-	-	< 10	-	-	-	-	-	< 10	-
Bromodichloromethane	µg/L	n/v	16[GH]	<0.50	<0.50	-	-	<0.5	<0.5	-	-	< 0.50	-	-	-	-	-	< 0.50	-
Bromoform (Tribromomethane)	µg/L	n/v	5[G] 25[H]	<1.0	<1.0	-	-	<1	<1	-	-	< 1.0	-	-	-	-	-	< 1.0	-
Bromomethane (Methyl bromide)	µg/L	n/v	0.89[GH]	<0.50	<0.50	-	-	<0.5	<0.5	-	-	< 0.50	-	-	-	-	-	< 0.50	-
Carbon Tetrachloride (Tetrachloromethane)	µg/L	5[B]	0.2[G] 0.79[H]	<0.20	<0.20	-	-	<0.2	<0.2	-	-	< 0.20	-	-	-	-	-	< 0.20	-
Chlorobenzene (Monochlorobenzene)	µg/L	80[B] 30[t,D]	30[GH]	<0.20	<0.20	-	-	<0.2	<0.2	-	-	< 0.20	-	-	-	-	-	< 0.20	-
Chloroform (Trichloromethane)	µg/L	n/v	2[G] 2.4[H]	<0.20	<0.20	-	-	<0.2	<0.2	-	-	< 0.20	-	-	-	-	-	< 0.20	-
Dibromochloromethane	µg/L	n/v	25[GH]	<0.50	<0.50	-	-	<0.5	<0.5	-	-	< 0.50	-	-	-	-	-	< 0.50	-
Dichlorobenzene, 1,2-	µg/L	200[B] 3[t,D]	3[GH]	<0.50	<0.50	-	-	<0.5	<0.5	-	-	< 0.50	-	-	-	-	-	< 0.50	-
Dichlorobenzene, 1,3-	µg/L	n/v	59[GH]	<0.50	<0.50	-	-	<0.5	<0.5	-	-	< 0.50	-	-	-	-	-	< 0.50	-
Dichlorobenzene, 1,4-	µg/L	5[B] 1[t,D]	0.5[G] 1[H]	<0.50	<0.50	-	-	<0.5	<0.5	-	-	< 0.50	-	-	-	-	-	< 0.50	-
Dichlorodifluoromethane (Freon 12)	µg/L	n/v	590[GH]	<1.0	<1.0	-	-	<1	<1	-	-	< 1.0	-	-	-	-	-	< 1.0	-
Dichloroethane, 1,1-	µg/L	n/v	5[GH]	<0.20	<0.20	-	-	<0.2	<0.2	-	-	< 0.20	-	-	-	-	-	< 0.20	-
Dichloroethane, 1,2-	µg/L	5[C]	0.5[G] 1.6[H]	<0.50	<0.50	-	-	<0.5	<0.5	-	-	< 0.50	-	-	-	-	-	< 0.50	-
Dichloroethene, 1,1-	µg/L	14[B]	0.5[G] 1.6[H]	<0.20	<0.20	-	-	<0.2	<0.2	-	-	< 0.20	-	-	-	-	-	< 0.20	-
Dichloroethene, cis-1,2-	µg/L	n/v	1.6[GH]	<0.50	<0.50	-	-	<0.5	<0.5	-	-	< 0.50	-	-	-	-	-	< 0.50	-
Dichloroethene, trans-1,2-	µg/L	n/v	1.6[GH]	<0.50	<0.50	-	-	<0.5	<0.5	-	-	< 0.50	-	-	-	-	-	< 0.50	-
Dichloropropane, 1,2-	µg/L	n/v	0.58[G] 5[H]	<0.20	<0.20	-	-	<0.2	<0.2	-	-	< 0.20	-	-	-	-	-	< 0.20	-
Dichloropropene, 1,3- (sum of isomers cis + trans)	µg/L	n/v	0.5[s11,G] 0.5[s11,H]	<0.50	<0.50	-	-	<0.5	<0.5	-	-	< 0.50	-	-	-	-	-	< 0.50	-
Dichloropropene, cis-1,3-	µg/L	n/v	[s11,GH]	<0.30	<0.30	-	-	<0.3	<0.3	-	-	< 0.30	-	-	-	-	-	< 0.30	-
Dichloropropene, trans-1,3-	µg/L	n/v	[s11,GH]	<0.40	<0.40	-	-	<0.4	<0.4	-	-	< 0.40	-	-	-	-	-	< 0.40	-
Ethylene Dibromide (Dibromoethane, 1,2-)	µg/L	n/v	0.2[GH]	<0.20	<0.20	-	-	<0.2	<0.2	-	-	< 0.20	-	-	-	-	-	< 0.20	-
Hexane (n-Hexane)	µg/L	n/v	5[G] 51[H]	<1.0	<1.0	-	-	<1	<1	-	-	< 1.0	-	-	-	-	-	< 1.0	-
Methyl Ethyl Ketone (MEK)	µg/L	n/v	1800[GH]	<10	<10	-	-	<10	<10	-	-	< 10	-	-	-	-	-	< 10	-
Methyl Isobutyl Ketone (MIBK)	µg/L	n/v	640[GH]	<5.0	<5.0	-	-	<5	<5	-	-	< 5.0	-	-	-	-	-	< 5.0	-
Methyl tert-butyl ether (MTBE)	µg/L	n/v	15[GH]	<0.50	<0.50	-	-	<0.5	<0.5	-	-	< 0.50	-	-	-	-	-	< 0.50	-
Methylene Chloride (Dichloromethane)	µg/L	50[B]	26[G] 50[H]	<2.0	<2.0	-	-	<2	<2	-	-	< 2.0	-	-	-	-	-	< 2.0	-
Styrene	µg/L	n/v	5.4[GH]	<0.50	<0.50	-	-	<0.5	<0.5	-	-	< 0.50	-	-	-	-	-	< 0.50	-
Tetrachloroethane, 1,1,1,2-	µg/L	n/v	1.1[GH]	<0.50	<0.50	-	-	<0.5	<0.5	-	-	< 0.50	-	-	-	-	-	< 0.50	-
Tetrachloroethane, 1,1,2,2-	µg/L	n/v	0.5[G] 1[H]	<0.50	<0.50	-	-	<0.5	<0.5	-	-	< 0.50	-	-	-	-	-	< 0.50	-
Tetrachloroethene (PCE)	µg/L	30[B]	0.5[G] 1.6[H]	<0.20	<0.20	-	-	<0.2	<0.2	-	-	< 0.20	-	-	-	-	-	< 0.20	-
Trichloroethane, 1,1,1-	µg/L	n/v	23[G] 200[H]	<0.20	<0.20	-	-	<0.2	<0.2	-	-	< 0.20	-	-	-	-	-	< 0.20	-
Trichloroethane, 1,1,2-	µg/L	n/v	0.5[G] 4.7[H]	<0.50	<0.50	-	-	<0.5	<0.5	-	-	< 0.50	-	-	-	-	-	< 0.50	-
Trichloroethene (TCE)	µg/L	5[B]	0.5[G] 1.6[H]	<0.20	<0.20	-	-	<0.2	<0.2	-	-	< 0.20	-	-	-	-	-	< 0.20	-
Trichlorofluoromethane (Freon 11)	µg/L	n/v	150[GH]	<0.50	<0.50	-	-	<0.5	<0.5	-	-	< 0.50	-	-	-	-	-	< 0.50	-
Vinyl chloride	µg/L	2[B]	0.5[GH]	<0.20	<0.20	-	-	<0.2	<0.2	-	-	< 0.20	-	-	-	-	-	< 0.20	-

See notes on last page

Summary of Groundwater Analytical Results - Monitoring Wells
Clarington Tranformer Station
Hydro One Networks Inc.

Sample Location				FIELD BLANK				TRIP BLANK		
Sample Date				**22-Dec-14**	**22-Dec-14**	**23-Dec-14**	**10-Apr-15**	**20-Nov-14**	**27-Nov-14**	**27-Nov-14**
Sample ID				**WG-160900764-20141222-MF04**	**WG-160900764-20141222-MF04A**	**WG-160900764-20141223-MF02**	**FIELD BLANK**	**TRIP BLANK**	**TBLK-ABNSIM-W-14-2700**	**TRIP BLANK LOT 3316**
Sampling Company				**STANTEC**	**STANTEC**	**STANTEC**	**STANTEC**	**STANTEC**	**STANTEC**	**STANTEC**
Laboratory				**MAXX**	**MAXX**	**MAXX**	**MAXX**	**MAXX**	**MAXX**	**MAXX**
Laboratory Work Order				**B4O2426**	**B4O2426**	**B4O2825**	**B563828**	**B4M0745**	**B4M5208**	**B4M5208**
Laboratory Sample ID				**YY7645**	**YY7646**	**YY9891**	**ABZ564**	**YO3566**	**YQ4972**	**YQ4973**
Filtered				**-**	**Lab Filtered**	**-**	**-**	**-**	**-**	**-**
Sample Type	**Units**	**ODWS**	**Ontario SCS**	**Field Blank**	**Field Blank**	**Trip Blank**	**Field 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[GH]	-	-	-	-	-	-	-
Cyanide (Free)	µg/L	200[B]	52[GH]	-	-	-	-	-	-	-
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_{h}[B]	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}[B]	n/v	-	-	-	-	-	-	-
Nitrate + Nitrite (as N)	mg/L	10.0_{d}[B]	n/v	-	-	-	-	-	-	-
Nitrite (as N)	mg/L	1.0_{d}[B]	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_{L}[D,E]	n/v	-	-	-	-	-	-	-
BTEX and Petroleum Hydrocarbons										
Benzene	µg/L	5[B]	0.5[G] 5[H]	-	-	-	<0.2	< 0.20	-	< 0.20
Toluene	µg/L	24[D]	24[G] 22[H]	-	-	-	<0.2	< 0.20	-	< 0.20
Ethylbenzene	µg/L	2.4[D]	2.4[GH]	-	-	-	<0.2	< 0.20	-	< 0.20
Xylene, m & p-	µg/L	300_{s1}[D]	[GH]	-	-	-	<0.2	< 0.20	-	< 0.20
Xylene, o-	µg/L	300_{s1}[D]	[GH]	-	-	-	<0.2	< 0.20	-	< 0.20
Xylenes, Total	µg/L	300[D]	72_{s1}[G] 300_{s1}[H]	-	-	-	<0.2	< 0.20	-	< 0.20
PHC F1 (C6-C10 range)	µg/L	n/v	420_{s7}[G] 420_{s7}[H]	-	-	-	<25	-	-	-
PHC F1 (C6-C10 range) minus BTEX	µg/L	n/v	420_{s7}[G] 420_{s7}[H]	-	-	-	<25	-	-	-
PHC F2 (>C10-C16 range)	µg/L	n/v	150_{s15}[G] 150_{s15}[H]	-	-	-	<100	-	-	-
PHC F3 (>C16-C34 range)	µg/L	n/v	500_{s8}[G] 500_{s8}[H]	-	-	-	<200	-	-	-
PHC F4 (>C34-C50 range)	µg/L	n/v	500_{s10}[G] 500_{s10}[H]	-	-	-	<200	-	-	-
Chromatogram to baseline at nC50	none	n/v	n/v	-	-	-	YES	-	-	-

Summary of Groundwater Analytical Results - Monitoring Wells
Clarington Tranformer Station
Hydro One Networks Inc.

Sample Location				FIELD BLANK				TRIP BLANK		
Sample Date				22-Dec-14	22-Dec-14	23-Dec-14	10-Apr-15	20-Nov-14	27-Nov-14	27-Nov-14
Sample ID				WG-160900764-20141222-MF04	WG-160900764-20141222-MF04A	WG-160900764-20141223-MF02	FIELD BLANK	TRIP BLANK	TBLK-ABNSIM-W-14-2700	TRIP BLANK LOT 3316
Sampling Company				STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC
Laboratory				MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX
Laboratory Work Order				B4O2426	B4O2426	B4O2825	B563828	B4M0745	B4M5208	B4M5208
Laboratory Sample ID				YY7645	YY7646	YY9891	ABZ564	YO3566	YQ4972	YQ4973
Filtered				-	Lab Filtered	-	-	-	-	-
Sample Type	Units	ODWS	Ontario SCS	Field Blank	Field Blank	Trip Blank	Field Blank	Trip Blank	Trip Blank	Trip Blank
Metals										
Aluminum	µg/L	100[E]	n/v	-	-	< 5	-	-	-	-
Antimony	µg/L	6[C]	6[GH]	-	-	< 0.5	-	-	-	-
Arsenic	µg/L	25[C]	25[GH]	-	-	< 1	-	-	-	-
Barium	µg/L	1000[B]	1000[GH]	-	-	< 2	-	-	-	-
Beryllium	µg/L	n/v	4[GH]	-	-	< 0.5	-	-	-	-
Boron	µg/L	5000[C]	5000[GH]	-	-	< 10	-	-	-	-
Cadmium	µg/L	5[B]	2.1[GH]	-	-	< 0.1	-	-	-	-
Calcium	µg/L	n/v	n/v	-	-	< 200	-	-	-	-
Cesium	µg/L	n/v	n/v	-	-	-	-	-	-	-
Chromium (Hexavalent)	µg/L	n/v	25[GH]	-	-	-	-	-	-	-
Chromium (Total)	µg/L	50[B]	50[GH]	-	-	< 5	-	-	-	-
Cobalt	µg/L	n/v	3.8[GH]	-	-	< 0.5	-	-	-	-
Copper	µg/L	1000[D]	69[GH]	-	-	< 1	-	-	-	-
Iron	µg/L	300[D]	n/v	-	-	< 100	-	-	-	-
Lead	µg/L	10_c[B]	10[GH]	-	-	< 0.5	-	-	-	-
Magnesium	µg/L	n/v	n/v	-	-	< 50	-	-	-	-
Manganese	µg/L	50[D]	n/v	-	-	< 2	-	-	-	-
Mercury	µg/L	1[B]	0.1[G] 0.29[H]	-	-	-	-	-	-	-
Molybdenum	µg/L	n/v	70[GH]	-	-	< 0.5	-	-	-	-
Nickel	µg/L	n/v	100[GH]	-	-	< 1	-	-	-	-
Phosphorus	µg/L	n/v	n/v	-	-	< 100	-	-	-	-
Potassium	µg/L	n/v	n/v	-	-	< 200	-	-	-	-
Rubidium	µg/L	n/v	n/v	-	-	-	-	-	-	-
Selenium	µg/L	10[B]	10[GH]	-	-	< 2	-	-	-	-
Silicon	µg/L	n/v	n/v	-	-	< 50	-	-	-	-
Silver	µg/L	n/v	1.2[GH]	-	-	< 0.1	-	-	-	-
Sodium	µg/L	200000_g[D] 20000_g[F]	490000[GH]	-	-	< 100	-	-	-	-
Strontium	µg/L	n/v	n/v	-	-	< 1	-	-	-	-
Thallium	µg/L	n/v	2[GH]	-	-	< 0.05	-	-	-	-
Titanium	µg/L	n/v	n/v	-	-	< 5	-	-	-	-
Uranium	µg/L	20[B]	20[GH]	-	-	< 0.1	-	-	-	-
Vanadium	µg/L	n/v	6.2[GH]	-	-	< 0.5	-	-	-	-
Zinc	µg/L	5000[D]	890[GH]	-	-	< 5	-	-	-	-
Zirconium	µg/L	n/v	n/v	-	-	< 1	-	-	-	-
Polychlorinated Biphenyls										
Aroclor 1242	µg/L	n/v	0.2_{s14}[G] 0.2_{s14}[H]	-	-	-	-	-	-	-
Aroclor 1248	µg/L	n/v	0.2_{s14}[G] 0.2_{s14}[H]	-	-	-	-	-	-	-
Aroclor 1254	µg/L	n/v	0.2_{s14}[G] 0.2_{s14}[H]	-	-	-	-	-	-	-
Aroclor 1260	µg/L	n/v	0.2_{s14}[G] 0.2_{s14}[H]	-	-	-	-	-	-	-
Polychlorinated Biphenyls (PCBs)	µg/L	3[C]	0.2_{s14}[G] 0.2_{s14}[H]	-	-	-	-	-	-	-

Summary of Groundwater Analytical Results - Monitoring Wells
Clarington Tranformer Station
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Sample Location				FIELD BLANK				TRIP BLANK		
Sample Date				**22-Dec-14**	**22-Dec-14**	**23-Dec-14**	**10-Apr-15**	**20-Nov-14**	**27-Nov-14**	**27-Nov-14**
Sample ID				**WG-160900764-20141222-MF04**	**WG-160900764-20141222-MF04A**	**WG-160900764-20141223-MF02**	**FIELD BLANK**	**TRIP BLANK**	**TBLK-ABNSIM-W-14-2700**	**TRIP BLANK LOT 3316**
Sampling Company				**STANTEC**	**STANTEC**	**STANTEC**	**STANTEC**	**STANTEC**	**STANTEC**	**STANTEC**
Laboratory				**MAXX**	**MAXX**	**MAXX**	**MAXX**	**MAXX**	**MAXX**	**MAXX**
Laboratory Work Order				**B4O2426**	**B4O2426**	**B4O2825**	**B563828**	**B4M0745**	**B4M5208**	**B4M5208**
Laboratory Sample ID				**YY7645**	**YY7646**	**YY9891**	**ABZ564**	**YO3566**	**YQ4972**	**YQ4973**
Filtered				**-**	**Lab Filtered**	**-**	**-**	**-**	**-**	**-**
Sample Type	**Units**	**ODWS**	**Ontario SCS**	**Field Blank**	**Field Blank**	**Trip Blank**	**Field Blank**	**Trip Blank**	**Trip Blank**	**Trip Blank**
Semi - Volatile Organic Compounds										
Phthalates										
Bis(2-Ethylhexyl)phthalate (DEHP)	µg/L	n/v	10[GH]	< 1	< 1	-	<1	-	< 1	-
Diethyl Phthalate	µg/L	n/v	30[GH]	< 0.1	< 0.1	-	<0.1	-	< 0.1	-
Dimethyl Phthalate	µg/L	n/v	30[GH]	< 0.1	< 0.1	-	<0.1	-	< 0.1	-
Polycyclic Aromatic Hydrocarbons										
Acenaphthene	µg/L	n/v	4.1[GH]	< 0.2	< 0.2	-	<0.2	-	< 0.2	-
Acenaphthylene	µg/L	n/v	1[GH]	< 0.2	< 0.2	-	<0.2	-	< 0.2	-
Anthracene	µg/L	n/v	1[GH]	< 0.05	< 0.05	-	<0.05	-	< 0.05	-
Benzo(a)anthracene	µg/L	n/v	1[GH]	< 0.05	< 0.05	-	<0.05	-	< 0.05	-
Benzo(a)pyrene	µg/L	0.01[B]	0.01[GH]	< 0.01	< 0.01	-	<0.01	-	< 0.01	-
Benzo(b/j)fluoranthene	µg/L	n/v	0.1_{t2}[G] 0.1$_{t2}$[H]	< 0.05	< 0.05	-	<0.05	-	< 0.05	-
Benzo(g,h,i)perylene	µg/L	n/v	0.2[GH]	< 0.05	< 0.05	-	<0.05	-	< 0.05	-
Benzo(k)fluoranthene	µg/L	n/v	0.1[GH]	< 0.05	< 0.05	-	<0.05	-	< 0.05	-
Chrysene	µg/L	n/v	0.1[GH]	< 0.05	< 0.05	-	<0.05	-	< 0.05	-
Dibenzo(a,h)anthracene	µg/L	n/v	0.2[GH]	< 0.1	< 0.1	-	<0.1	-	< 0.1	-
Fluoranthene	µg/L	n/v	0.41[GH]	< 0.2	< 0.2	-	<0.2	-	< 0.2	-
Fluorene	µg/L	n/v	120[GH]	< 0.2	< 0.2	-	<0.2	-	< 0.2	-
Indeno(1,2,3-cd)pyrene	µg/L	n/v	0.2[GH]	< 0.1	< 0.1	-	<0.1	-	< 0.1	-
Methylnaphthalene (Total)	µg/L	n/v	3.2_{z3}[G] 3.2_{z3}[H]	< 0.28	< 0.28	-	<0.28	-	< 0.28	-
Methylnaphthalene, 1-	µg/L	n/v	$_{z3}$[GH]	< 0.2	< 0.2	-	<0.2	-	< 0.2	-
Methylnaphthalene, 2-	µg/L	n/v	$_{z3}$[GH]	< 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	-
Phenanthrene	µg/L	n/v	1GH	< 0.1	< 0.1	-	<0.1	-	< 0.1	-
Pyrene	µg/L	n/v	4.1[GH]	< 0.05	< 0.05	-	<0.05	-	< 0.05	-
Remaining Semi - Volatile Organic Compounds										
Biphenyl, 1,1'- (Biphenyl)	µg/L	n/v	0.5[GH]	< 0.1	< 0.1	-	<0.1	-	< 0.1	-
Bis(2-Chloroethyl)ether	µg/L	n/v	5[GH]	< 0.5	< 0.5	-	<0.5	-	< 0.5	-
Bis(2-Chloroisopropyl)ether	µg/L	n/v	120[GH]	< 0.5	< 0.5	-	<0.5	-	< 0.5	-
Chloroaniline, 4-	µg/L	n/v	10[GH]	< 1	< 1	-	<1	-	< 1	-
Chlorophenol, 2- (ortho-Chlorophenol)	µg/L	n/v	8.9[GH]	< 0.1	< 0.1	-	<0.1	-	< 0.1	-
Dichlorobenzidine, 3,3'-	µg/L	n/v	0.5[GH]	< 0.5	< 0.5	-	<0.5	-	< 0.5	-
Dichlorophenol, 2,4-	µg/L	900[B] 0.3_{t}[D]	20[GH]	< 0.1	< 0.1	-	<0.1	-	< 0.1	-
Dimethylphenol, 2,4-	µg/L	n/v	59[GH]	< 0.5	< 0.5	-	<0.5	-	< 0.5	-
Dinitrophenol, 2,4-	µg/L	n/v	10[GH]	< 2	< 2	-	<2	-	< 2	-
Dinitrotoluene, 2,4-	µg/L	n/v	5_{s13}[G] 5_{s13}[H]	< 0.3	< 0.3	-	<0.3	-	< 0.3	-
Dinitrotoluene, 2,6-	µg/L	n/v	5_{s13}[G] 5_{s13}[H]	< 0.3	< 0.3	-	<0.3	-	< 0.3	-
Pentachlorophenol	µg/L	60[B] 30_{t}[D]	30[GH]	1.2	< 0.1	-	<0.1	-	< 0.1	-
Phenol	µg/L	n/v	890[GH]	< 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	-
Trichlorophenol, 2,4,5-	µg/L	n/v	8.9[GH]	< 0.2	< 0.2	-	<0.2	-	< 0.2	-
Trichlorophenol, 2,4,6-	µg/L	5[B] 2_{t}[D]	2[GH]	< 0.2	< 0.2	-	<0.2	-	< 0.2	-

Summary of Groundwater Analytical Results - Monitoring Wells
Clarington Tranformer Station
Hydro One Networks Inc.

Sample Location				FIELD BLANK				TRIP BLANK		
Sample Date				**22-Dec-14**	**22-Dec-14**	**23-Dec-14**	**10-Apr-15**	**20-Nov-14**	**27-Nov-14**	**27-Nov-14**
Sample ID				**WG-160900764-20141222-MF04**	**WG-160900764-20141222-MF04A**	**WG-160900764-20141223-MF02**	**FIELD BLANK**	**TRIP BLANK**	**TBLK-ABNSIM-W-14-2700**	**TRIP BLANK LOT 3316**
Sampling Company				**STANTEC**	**STANTEC**	**STANTEC**	**STANTEC**	**STANTEC**	**STANTEC**	**STANTEC**
Laboratory				**MAXX**	**MAXX**	**MAXX**	**MAXX**	**MAXX**	**MAXX**	**MAXX**
Laboratory Work Order				**B4O2426**	**B4O2426**	**B4O2825**	**B563828**	**B4M0745**	**B4M5208**	**B4M5208**
Laboratory Sample ID				**YY7645**	**YY7646**	**YY9891**	**ABZ564**	**YO3566**	**YQ4972**	**YQ4973**
Filtered				**-**	**Lab Filtered**	**-**	**-**	**-**	**-**	**-**
Sample Type	**Units**	**ODWS**	**Ontario SCS**	**Field Blank**	**Field Blank**	**Trip Blank**	**Field Blank**	**Trip Blank**	**Trip Blank**	**Trip Blank**
Volatile Organic Compounds										
Acetone	µg/L	n/v	2700[GH]	-	-	-	<10	< 10	-	< 10
Bromodichloromethane	µg/L	n/v	16[GH]	-	-	-	<0.5	< 0.50	-	< 0.50
Bromoform (Tribromomethane)	µg/L	n/v	5[G] 25[H]	-	-	-	<1	< 1.0	-	< 1.0
Bromomethane (Methyl bromide)	µg/L	n/v	0.89[GH]	-	-	-	<0.5	< 0.50	-	< 0.50
Carbon Tetrachloride (Tetrachloromethane)	µg/L	5[B]	0.2[G] 0.79[H]	-	-	-	<0.2	< 0.20	-	< 0.20
Chlorobenzene (Monochlorobenzene)	µg/L	80[B] 30$_t$[D]	30[GH]	-	-	-	<0.2	< 0.20	-	< 0.20
Chloroform (Trichloromethane)	µg/L	n/v	2[G] 2.4[H]	-	-	-	<0.2	< 0.20	-	< 0.20
Dibromochloromethane	µg/L	n/v	25[GH]	-	-	-	<0.5	< 0.50	-	< 0.50
Dichlorobenzene, 1,2-	µg/L	200[B] 3$_t$[D]	3[GH]	-	-	-	<0.5	< 0.50	-	< 0.50
Dichlorobenzene, 1,3-	µg/L	n/v	59[GH]	-	-	-	<0.5	< 0.50	-	< 0.50
Dichlorobenzene, 1,4-	µg/L	5[B] 1$_t$[D]	0.5[G] 1[H]	-	-	-	<0.5	< 0.50	-	< 0.50
Dichlorodifluoromethane (Freon 12)	µg/L	n/v	590[GH]	-	-	-	<1	< 1.0	-	< 1.0
Dichloroethane, 1,1-	µg/L	n/v	5[GH]	-	-	-	<0.2	< 0.20	-	< 0.20
Dichloroethane, 1,2-	µg/L	5[C]	0.5[G] 1.6[H]	-	-	-	<0.5	< 0.50	-	< 0.50
Dichloroethene, 1,1-	µg/L	14[B]	0.5[G] 1.6[H]	-	-	-	<0.2	< 0.20	-	< 0.20
Dichloroethene, cis-1,2-	µg/L	n/v	1.6[GH]	-	-	-	<0.5	< 0.50	-	< 0.50
Dichloroethene, trans-1,2-	µg/L	n/v	1.6[GH]	-	-	-	<0.5	< 0.50	-	< 0.50
Dichloropropane, 1,2-	µg/L	n/v	0.58[G] 5[H]	-	-	-	<0.2	< 0.20	-	< 0.20
Dichloropropene, 1,3- (sum of isomers cis + trans)	µg/L	n/v	0.5$_{s11}$[G] 0.5$_{s11}$[H]	-	-	-	<0.5	< 0.50	-	< 0.50
Dichloropropene, cis-1,3-	µg/L	n/v	$_{s11}$[GH]	-	-	-	<0.3	< 0.30	-	< 0.30
Dichloropropene, trans-1,3-	µg/L	n/v	$_{s11}$[GH]	-	-	-	<0.4	< 0.40	-	< 0.40
Ethylene Dibromide (Dibromoethane, 1,2-)	µg/L	n/v	0.2[GH]	-	-	-	<0.2	< 0.20	-	< 0.20
Hexane (n-Hexane)	µg/L	n/v	5[G] 51[H]	-	-	-	<1	< 1.0	-	< 1.0
Methyl Ethyl Ketone (MEK)	µg/L	n/v	1800[GH]	-	-	-	<10	< 10	-	< 10
Methyl Isobutyl Ketone (MIBK)	µg/L	n/v	640[GH]	-	-	-	<5	< 5.0	-	< 5.0
Methyl tert-butyl ether (MTBE)	µg/L	n/v	15[GH]	-	-	-	<0.5	< 0.50	-	< 0.50
Methylene Chloride (Dichloromethane)	µg/L	50[B]	26[G] 50[H]	-	-	-	<2	< 2.0	-	< 2.0
Styrene	µg/L	n/v	5.4[GH]	-	-	-	<0.5	< 0.50	-	< 0.50
Tetrachloroethane, 1,1,1,2-	µg/L	n/v	1.1[GH]	-	-	-	<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
Tetrachloroethene (PCE)	µg/L	30[B]	0.5[G] 1.6[H]	-	-	-	<0.2	< 0.20	-	< 0.20
Trichloroethane, 1,1,1-	µg/L	n/v	23[G] 200[H]	-	-	-	<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
Trichloroethene (TCE)	µg/L	5[B]	0.5[G] 1.6[H]	-	-	-	<0.2	< 0.20	-	< 0.20
Trichlorofluoromethane (Freon 11)	µg/L	n/v	150[GH]	-	-	-	<0.5	< 0.50	-	< 0.50
Vinyl chloride	µg/L	2[B]	0.5[GH]	-	-	-	<0.2	< 0.20	-	< 0.20

See notes on last page

Summary of Groundwater Analytical Results - Monitoring Wells
Clarington Tranformer Station
Hydro One Networks Inc.

Notes:

ODWS	Technical Support Document for Ontario Drinking Water Standards, Objectives and Guidelines (MOE, 2006)
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
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 was less than the applicable standard.
< 0.50	Laboratory reportable detection limit was greater than the applicable standard.
< 0.03	Analyte was not detected at a concentration greater than the laboratory reportable detection 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).
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.
n/a	Not applicable.
s1	Standard is applicable to total xylenes, and m & p-xylenes and o-xylenes should be summed for comparison.
s2	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	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	Standard is applicable to PHC in the F1 range minus BTEX.
s8	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.
s11	Standard is applicable to 1,3-Dichloropropene, and the individual isomers (cis + trans) should be added for comparison.
s13	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	Standard is applicable to total PCBs, and the individual Aroclors should be added for comparison.
s15	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.