

# **APPENDIX B: TABLES**

**TABLE 1**  
**MONITORING WELL DETAILS**  
 Clarington Tranformer Station  
 Hydro One Networks Inc.

MOE WWR No.	Well ID	Location		Coordinates			Elevation			Stick-up (m AGS)	Borehole Depth (m BGS)	Well Diameter (mm)	Screened Interval				Screened Material	
		Installation Date	Status	Easting	Northing	Source	Ground Surface m AMSL	Top of Casing m AMSL	Source				Top of Well Screen		Bottom of Well Screen		Screened Unit	Hydraulic Conductivity (m/s)
<b>Monitoring Wells</b>																		
-	MW1-13S	Dec-13	Monitoring Well	673222	4872738	Hydro One (Sept 2014)	262.52	263.39	Hydro One (Sept 2014)	0.87	6.1	51	3.05	259.47	6.10	256.42	Silty Sand Till	9.E-08
-	MW1-13D	Dec-13	Monitoring Well	673222	4872738	Hydro One (Sept 2014)	262.52	263.42	Hydro One (Sept 2014)	0.90	15.2	51	12.19	250.33	15.24	247.28	Silty Sand Till	9.E-06
-	MW2-13S	Dec-13	Monitoring Well	672910	4872716	Hydro One (Sept 2014)	250.42	251.27	Hydro One (Sept 2014)	0.85	4.6	51	1.52	248.90	4.57	245.85	Silty Sand Till	2.E-07
-	MW2-13D	Dec-13	Monitoring Well	672906	4872714	Hydro One (Sept 2014)	250.40	251.26	Hydro One (Sept 2014)	0.86	15.2	51	12.19	238.21	15.24	235.16	Silty Sand Till	1.E-07
-	MW3-13S	Dec-13	Monitoring Well	672702	4872499	Hydro One (Sept 2014)	243.87	244.80	Hydro One (Sept 2014)	0.93	6.7	51	3.66	240.21	6.71	237.16	Silty Sand Till	7.E-09
-	MW3-13D	Dec-13	Monitoring Well	672703	4872495	Hydro One (Sept 2014)	244.03	244.97	Hydro One (Sept 2014)	0.94	15.2	51	12.19	231.84	15.24	228.79	Silty Sand Till	na
-	MW4-13S	Dec-13	Monitoring Well	673051	4872242	Hydro One (Sept 2014)	238.86	239.78	Hydro One (Sept 2014)	0.92	4.6	51	1.52	237.34	4.57	234.29	Sand Silty Sand Till	1.3.E-05
-	MW4-13D	Dec-13	Monitoring Well	673050	4872238	Hydro One (Sept 2014)	238.72	239.55	Hydro One (Sept 2014)	0.83	15.2	51	12.19	226.53	15.24	223.48	Silty Sand Till	na
-	MW4-15D	Jan-15	Monitoring Well	673050	4872238	Approximated from MW4-13D	238.72	239.47	Approximated from MW4-13D	0.75	25.1	51	19.89	218.83	22.94	215.78	Silty Sand Till	2.8.E-10
-	MW5-14S (2)	Nov-14	Monitoring Well	672901	4872453	Stantec GIS Mapping (2015)	252.60	253.34	Hydro One Topography (0.25 m contours)	0.74	4.1	51	2.48	250.12	4.00	248.60	Sand	2.8.E-07
-	MW5-14S	Oct-14	Monitoring Well	672901	4872453	Field GPS (2014)	252.60	253.51	Hydro One Topography (0.25 m contours)	0.91	6.1	51	3.10	249.50	6.10	246.50	Sandy Silt Till Silty Sand Till	1.6.E-05
-	MW5-14I	Oct-14	Monitoring Well	672901	4872453	Field GPS (2014)	252.60	253.43	Hydro One Topography (0.25 m contours)	0.83	40.1	51	37.10	215.50	40.10	212.50	Silty Sand Till	1.3.E-09
-	MW5-14D	Dec-14	Monitoring Well	672901	4872453	Stantec GIS Mapping (2015)	252.44	253.22	Hydro One Topography (0.25 m contours)	0.78	55.0	51	52.43	200.01	53.95	198.49	Sand	3.3.E-07
-	MW5-14D(2)	Dec-14	Monitoring Well	672901	4872453	Stantec GIS Mapping (2015)	252.44	253.52	Hydro One Topography (0.25 m contours)	1.08	129.5	51	112.01	140.43	113.54	138.90	Sand	-
-	MW6-14	Oct-14	Monitoring Well	673195	4872811	Field GPS (2014)	260.80	261.71	Hydro One Topography (0.25 m contours)	0.91	7.6	51	6.10	254.70	7.60	253.20	Silt Till	4.3.E-07
-	MW7-14	Oct-14	Monitoring Well	673254	4872654	Field GPS (2014)	261.75	262.65	Hydro One Topography (0.25 m contours)	0.90	7.6	51	6.10	255.65	7.60	254.15	Silt Till Sandy Silt Till	8.4.E-07
-	MW8-15	Jan-15	Abandoned	673082	4872565	Approximated from BH7D (EXP, 2012)	254.43	255.25	Approximated from BH7D (EXP, 2012)	0.82	16.9	51	13.72	240.71	15.24	239.19	Silty Sand to Sandy Silt Till	7.4.E-06

**Notes:**

Northing and Easting Coordinates presented as UTM NAD 83 Zone 17

na: not applicable

m AGS: metres above ground surface

m BGS: metres below ground surface

m AMSL: metres above mean sea level

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**MONITORING WELL DETAILS**  
**Clarington Tranformer Station**  
**Hydro One Networks Inc.**

MOE WWR No.	Location			Coordinates			Elevation			Stick-up (m AGS)	Borehole Depth (m BGS)	Well Diameter (mm)	Screened Interval				Screened Material	
	Well ID	Installation Date	Status	Easting	Northing	Source	Ground Surface m AMSL	Top of Casing m AMSL	Source				Top of Well Screen		Bottom of Well Screen		Screened Unit	Hydraulic Conductivity (m/s)
												(m BGS)	(m AMSL)	(m BGS)	(m AMSL)			
<b>Boreholes</b>																		
7191922	BH2-12	Nov-12	Abandoned	673024	4872350	Inspect-Sol (2012)	246.40	247.30	Hydro One Topography (0.25 m contours)	0.90	15.9	na	12.15	234.25	15.20	231.20	Sandy Silt Till	-
-	BH4-12	Nov-12	Abandoned	672719	4872330	Inspect-Sol (2012)	243.20	244.10	Hydro One Topography (0.25 m contours)	0.90	15.5	na	12.45	230.75	15.50	227.70	Sandy Silt Till	-
-	BH7A	May-12	Abandoned	672989	4872568	EXP (2012)	253.20	na	Exp borehole log (2012)	na	15.7	na	4.70	248.50	7.75	245.45	Sandy Silt Till	-
-	BH9-15	Mar-15	Abandoned	673015	4872580	Approximated from BH7A (EXP, 2012)	253.60	na	Approximated from BH7A (EXP, 2012)	na	10.1	na	na	na	na	na	na	-
-	BH11-12	Nov-12	Abandoned	673034	4872779	Inspect-Sol (2012)	253.50	254.41	Hydro One Topography (0.25 m contours)	0.91	15.5	51	11.75	241.75	14.80	238.70	Sandy Silt Till Silt and Sand	-
<b>Drivepoint Piezometers</b>																		
na	DP2-13 (MP2, SW2)	Dec-13	Destroyed	672900	4872725	Adjacent to DP2-14	250.10	251.14	Adjacent to DP2-14	1.04	1.21	25	0.79	249.31	1.21	248.89	na	-
na	DP2-14 (MP2, SW2)	May-14	Destroyed	672900	4872725	Hydro One (Sept 2014)	250.10	251.62	Hydro One (Sept 2014)	1.52	1.34	25	0.92	249.18	1.34	248.76	na	-
na	DP2-15 (MP2, SW2)	Apr-15	Piezometer	672900	4872725	Adjacent to DP2-14	250.10	251.28	Adjacent to DP2-14	1.18	1.68	25	1.26	248.84	1.68	248.42	na	-
na	DP3-14 (MP3, SW3)	May-14	Piezometer	672684	4872500	Field GPS (2014)	240.00	241.69	Hydro One Topography (0.25 m contours)	1.69	0.87	25	0.45	239.55	0.87	239.13	na	-
na	DP3-15 (MP3, SW3)	Apr-15	Piezometer	672684	4872500	Adjacent to DP3-14	240.00	241.80	Adjacent to DP3-14	1.80	0.76	25	0.34	239.66	0.76	239.24	na	-
na	DP4-13 (MP4)	Dec-13	Destroyed	673055	4872236	Hydro One (Sept 2014)	238.41	239.09	Hydro One (Sept 2014)	0.68	1.57	25	1.15	237.26	1.57	236.84	na	-
na	DP4-15 (MP4)	Apr-15	Piezometer	673055	4872236	Adjacent to DP4-13	238.41	239.61	Adjacent to DP4-13	1.20	1.35	25	0.93	237.48	1.35	237.06	na	-
na	DP5-17 (MP5)	Oct-17	Piezometer	672636	4872775	Field GPS (2017)	245.43	246.90	Hydro One Topography (0.25 m contours)	1.47	1.08	25	0.66	244.77	1.08	244.35	na	-
na	DP6-17 (MP6)	Oct-17	Piezometer	672665	4872298	Field GPS (2017)	234.85	236.27	Hydro One Topography (0.25 m contours)	1.42	1.13	25	0.71	234.14	1.13	233.72	na	-
<b>Test Pits</b>																		
na	TP1-14	Oct-14	Abandoned	673189	4872613	Field GPS (2014)	256.40	na	Hydro One Topography (0.25 m contours)	na	4.88	na	na	na	na	na	Silty Sand Till	-
na	TP2-14	Oct-14	Abandoned	673151	4872714	Field GPS (2014)	258.20	na	Hydro One Topography (0.25 m contours)	na	4.57	na	na	na	na	na	Silty Sand Till	-
na	TP3-14	Oct-14	Abandoned	673129	4872784	Field GPS (2014)	257.10	na	Hydro One Topography (0.25 m contours)	na	3.96	na	na	na	na	na	Silty Sand Till	-

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**TABLE 2**  
**PRIVATE WELL DETAILS**  
**Clarington Transformer Station**  
**Hydro One Networks Inc.**

Location		Coordinates			Elevation			Stick-up (m AGS)	Screened Unit
MOE WWR No.	Well ID	Eastings	Northing	Source	Ground Surface m AMSL	Top of Casing m AMSL	Source		
<b>Private / Residential Wells</b>									
-	PW-01	673817	4872232	Aerial imagery	237.32	237.71	Regional Topography (5 m contours)	0.39	Shallow Overburden Up to 16 m BGS
7157947	PW-02	673848	4872147	Aerial imagery	237.86	238.34	Regional Topography (5 m contours)	0.48	Intermediate Overburden
-	PW-03	673913	4872207	Aerial imagery	234.24	234.48	Regional Topography (5 m contours)	0.24	Shallow Overburden Up to 16 m BGS
-	PW-04	673490	4872201	Aerial imagery	249.75	249.93	Regional Topography (5 m contours)	0.18	Shallow Overburden
-	PW-05	673357	4872116	Aerial imagery	255.40	255.92	Regional Topography (5 m contours)	0.52	Thornccliffe Formation
1908311	PW-06	674402	4872494	Aerial imagery	238.15	238.60	Regional Topography (5 m contours)	0.45	Thornccliffe Formation
-	PW-07	673230	4874110	Aerial imagery	268.68	268.76	Regional Topography (5 m contours)	0.08	Shallow Overburden Up to 16 m BGS
-	PW-08	671354	4873355	Aerial imagery	246.53	246.72	Regional Topography (5 m contours)	0.19	Shallow Overburden
-	PW-09	671476	4872872	Aerial imagery	249.20	249.50	Regional Topography (5 m contours)	0.30	Shallow Overburden Up to 16 m BGS
1910299 replaced 1916307	PW-10	673598	4872793	Aerial imagery	247.41	248.05	Regional Topography (5 m contours)	0.64	Thornccliffe Formation
1903520 1913606 amend	PW-11	674115	4872075	Aerial imagery	226.17	226.28	Regional Topography (5 m contours)	0.11	Shallow Overburden Up to 16 m BGS
-	PW-12	673793	4872111	Aerial imagery	238.38	238.49	Regional Topography (5 m contours)	0.11	Shallow Overburden Up to 16 m BGS
1917587	PW-13	671901	4871638	Aerial imagery	235.44	236.37	Regional Topography (5 m contours)	0.93	Thornccliffe Formation
-	PW-14	674186	4872309	Aerial imagery	231.30	231.38	Regional Topography (5 m contours)	0.08	Shallow Overburden Up to 16 m BGS
1905014	PW-15	673320	4873035	Aerial imagery	270.01	na	Regional Topography (5 m contours)	na	Thornccliffe Formation
-	PW-16	673564	4872887	Aerial imagery	250.69	251.25	Regional Topography (5 m contours)	0.56	Shallow Overburden Up to 16 m BGS
1907905	PW-17	673380	4872976	Aerial imagery	268.99	268.69	Regional Topography (5 m contours)	-0.30	Thornccliffe Formation
-	PW-18	673559	4872054	Aerial imagery	245.75	245.88	Regional Topography (5 m contours)	0.13	Thornccliffe Formation
-	PW-19	672554	4873767	Aerial imagery	271.15	271.60	Regional Topography (5 m contours)	0.45	Shallow Overburden Up to 16 m BGS
-	PW-20	673617	4872099	Aerial imagery	243.41	243.60	Regional Topography (5 m contours)	0.19	Shallow Overburden Up to 16 m BGS
1912514	PW-21	673702	4872069	Aerial imagery	240.29	240.77	Regional Topography (5 m contours)	0.48	Thornccliffe Formation
1918378	PW-22	672998	4872016	Aerial imagery	230.44	231.04	Regional Topography (5 m contours)	0.60	Thornccliffe Formation
-	PW-23	672313	4873467	Aerial imagery	261.68	261.68	Regional Topography (5 m contours)	0.00	Shallow Overburden Up to 16 m BGS
-	PW-24	673438	4872157	Aerial imagery	252.04	252.56	Regional Topography (5 m contours)	0.52	Shallow Overburden Up to 16 m BGS
-	PW-25	674115	4872337	Aerial imagery	234.44	235.14	Regional Topography (5 m contours)	0.70	Shallow Overburden Up to 16 m BGS
-	PW-26	672716	4871817	Aerial imagery	221.38	221.53	Regional Topography (5 m contours)	0.15	Shallow Overburden Up to 16 m BGS

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**Table 3**  
**Summary of Surface Water Analytical Results**  
**Clarington Transformer Station**  
**Hydro One Networks Inc.**

Sample Location	Sample Date	Units	PWQO	SW2				SW3	
				25-Apr-17	25-Apr-17	18-Oct-17	18-Oct-17	25-Apr-17	18-Oct-17
Sample ID				WS-160900764-20170425-KR-102	WS-160900764-20170425-KR-103	WS-160900764-20171018-RD101	WS-160900764-20171018-RD102	WS-160900764-20170425-KR-101	WS-160900764-20171018-RD103
Sampling Company				STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC
Laboratory				MAXX	MAXX	MAXX	MAXX	MAXX	MAXX
Laboratory Work Order				B783705	B783705	B7N2060	B7N2060	B783705	B7N2060
Laboratory Sample ID				EGX442	EGX443	FJE561	FJE562	EGX441	FJE563
Sample Type					Field Duplicate		Field Duplicate		
<b>General Chemistry</b>									
Acidity	mg/L	n/v		20	20	12	9.2	11	9.0
Alkalinity, Bicarbonate (as CaCO3)	mg/L	n/v		210	210	270	270	220	320
Alkalinity, Carbonate (as CaCO3)	mg/L	n/v		1.8	1.8	2.7	2.9	2.6	4.8
Alkalinity, Total (as CaCO3)	mg/L	16 <sup>A</sup>		210	210	270	270	220	330
Ammonia (as N)	mg/L	n/v		<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Chloride	mg/L	n/v		29	29	15	15	21	19
Cyanide (Free)	µg/L	5 <sup>A</sup>		<1	<1	<1	<1	<1	<1
Electrical Conductivity, Lab	µmhos/cm	n/v		830	830	890	890	630	820
Fluoride	mg/L	n/v		0.30	0.31	0.36	0.38	0.12	0.20
Hardness (as CaCO3)	mg/L	n/v		370	370	490	490	300	470
Langelier Index (at 20 C)	none	n/v		0.881	0.864	1.17	1.21	1.04	1.45
Langelier Index (at 4 C)	none	n/v		0.633	0.617	0.924	0.961	0.787	1.20
Nitrate (as N)	mg/L	n/v		1.32	1.36	0.68	0.70	1.91	3.55
Nitrate + Nitrite (as N)	mg/L	n/v		-	-	0.68	0.7	-	3.55
Nitrite (as N)	mg/L	n/v		<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Orthophosphate (as P)	mg/L	n/v		<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
pH	S.U.	6.5-8.5 <sup>A</sup>		7.96	7.97	8.02	8.07	8.11	8.20
Phosphorus, Total	mg/L	0.03 <sub>4</sub> <sup>C</sup>		0.005	0.004	<0.004	0.004	0.012	<0.004
Saturation pH (at 20 C)	none	n/v		7.08	7.10	6.85	6.86	7.07	6.75
Saturation pH (at 4 C)	none	n/v		7.33	7.35	7.10	7.10	7.32	6.99
Sulfate	mg/L	n/v		160	160	210	210	63	98
Total Dissolved Solids	mg/L	n/v		522	694	560	565	376	500
Total Organic Carbon	mg/L	n/v		2.7	2.7	2.7	2.9	3.1	2.9
Total Suspended Solids	mg/L	n/v		<10	<10	<10	<10	<10	<10
Turbidity, Lab	NTU	n/v		0.6	0.6	0.2	0.2	0.5	0.3
<b>Metals, Dissolved</b>									
Calcium	µg/L	n/v		120,000	120,000	160,000	160,000	110,000	160,000
Magnesium	µg/L	n/v		18,000	18,000	24,000	24,000	9,500	16,000
Mercury	µg/L	0.2 <sup>A</sup>		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Potassium	µg/L	n/v		5,000	6,000	8,000	8,000	2,000	4,000
Sodium	µg/L	n/v		31,000	31,000	20,000	19,000	15,000	16,000
<b>Metals, Total</b>									
Aluminum	µg/L	75 <sup>C</sup>		23	25	14	18	110 <sup>C</sup>	16
Antimony	µg/L	20 <sup>C</sup>		<0.50	<0.50	<0.5	<0.5	<0.50	<0.5
Arsenic	µg/L	100 <sup>A</sup> 5 <sup>C</sup>		<1.0	<1.0	<1	<1	<1.0	<1
Barium	µg/L	n/v		53	54	71	69	34	53
Beryllium	µg/L	1,100 <sub>5</sub> <sup>A</sup>		<0.50	<0.50	<0.5	<0.5	<0.50	<0.5
Boron	µg/L	200 <sub>3</sub> <sup>C</sup>		340 <sup>C</sup>	340 <sup>C</sup>	460 <sup>C</sup>	460 <sup>C</sup>	100	190
Cadmium	µg/L	0.2 <sup>A</sup> 0.5 <sub>12</sub> <sup>C</sup>		<0.10	<0.10	<0.1	<0.1	<0.10	<0.1
Calcium	µg/L	n/v		120,000	120,000	140,000	150,000	100,000	140,000
Chromium	µg/L	n/v		<5.0	<5.0	<5	<5	<5.0	<5
Chromium (Hexavalent)	µg/L	1 <sup>A</sup>		<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Cobalt	µg/L	0.9 <sup>A</sup>		<0.50	<0.50	<0.5	<0.5	<0.50	<0.5
Copper	µg/L	5 <sup>A</sup> 5 <sub>13</sub> <sup>C</sup>		<1.0	1.1	<1	<1	<1.0	1.1 <sup>C</sup>
Iron	µg/L	300 <sup>A</sup>		<100	<100	<100	<100	130	<100
Lead	µg/L	25 <sub>14</sub> <sup>A</sup> 5 <sub>15</sub> <sup>C</sup>		<0.50	<0.50	<0.5	<0.5	<0.50	<0.5
Magnesium	µg/L	n/v		18,000	18,000	23,000	22,000	9,600	15,000
Manganese	µg/L	n/v		37	36	46	46	32	34
Molybdenum	µg/L	40 <sup>C</sup>		1.5	1.4	1.7	1.7	0.53	0.85
Nickel	µg/L	25 <sup>A</sup>		2.1	1.4	<1	1.1	<1.0	<1
Phosphorus	µg/L	30 <sub>4</sub> <sup>C</sup>		<100	<100	<100	<100	<100	<100
Potassium	µg/L	n/v		5,400	5,300	6,700	6,700	2,100	3,100
Selenium	µg/L	100 <sup>A</sup>		<2.0	<2.0	<2	<2	<2.0	<2
Silicon	µg/L	n/v		3,100	3,100	3,800	4,000	3,100	4,700
Silver	µg/L	0.1 <sup>A</sup>		<0.10	<0.10	<0.1	<0.1	<0.10	<0.1
Sodium	µg/L	n/v		31,000	30,000	18,000	18,000	15,000	14,000
Strontium	µg/L	n/v		1,700	1,600	2,700	2,700	530	1,100
Thallium	µg/L	0.3 <sub>5</sub> <sup>C</sup>		<0.050	<0.050	<0.05	<0.05	<0.050	<0.05
Titanium	µg/L	n/v		<5.0	<5.0	<5	<5	5.6	<5
Uranium	µg/L	5 <sub>6</sub> <sup>C</sup>		0.98	0.96	1.1	1.1	0.58	0.85
Vanadium	µg/L	6 <sup>C</sup>		0.53	0.50	<0.5	<0.5	0.79	<0.5
Zinc	µg/L	30 <sup>A</sup> 20 <sup>C</sup>		31 <sup>AC</sup>	31 <sup>AC</sup>	7	7.2	8.5	6.4
Zirconium	µg/L	4 <sub>6</sub> <sup>C</sup>		<1.0	<1.0	<1	<1	<1.0	<1
<b>BTEX and Petroleum Hydrocarbons</b>									
Benzene	µg/L	100 <sub>6</sub> <sup>C</sup>		<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Toluene	µg/L	0.8 <sup>C</sup>		<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Ethylbenzene	µg/L	8 <sup>C</sup>		<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Xylene, m & p-	µg/L	32 <sub>17</sub> <sup>B</sup>		<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Xylene, o-	µg/L	40 <sub>6</sub> <sup>C</sup>		<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Xylenes, Total	µg/L	72 <sub>10</sub> <sup>B</sup>		<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
PHC F1 (C6-C10 range)	µg/L	n/v		<25	<25	<25	<25	<25	<25
PHC F1 (C6-C10 range) minus BTEX	µg/L	n/v		<25	<25	<25	<25	<25	<25
PHC F2 (>C10-C16 range)	µg/L	n/v		<100	<100	<100	<100	<100	<100
PHC F3 (>C16-C34 range)	µg/L	n/v		<200	<200	<200	<200	<200	<200
PHC F4 (>C34-C50 range)	µg/L	n/v		<200	<200	<200	<200	<200	<200
Chromatogram to baseline at C50	none	n/v		YES	YES	YES	YES	YES	YES
<b>Polychlorinated Biphenyls</b>									
Aroclor 1242	µg/L	57 <sup>A</sup>		<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Aroclor 1248	µg/L	57 <sup>A</sup>		<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Aroclor 1254	µg/L	57 <sup>A</sup>		<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Aroclor 1260	µg/L	57 <sup>A</sup>		<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Polychlorinated Biphenyls (PCBs)	µg/L	0.001 <sub>17</sub> <sup>A</sup>		<0.05	<0.05	<0.05	<0.05	<0.05	<0.05

See notes on last page

**Table 3**  
**Summary of Surface Water Analytical Results**  
**Clarington Transformer Station**  
**Hydro One Networks Inc.**

Sample Location	Sample Date	Sample ID	Sampling Company	Laboratory	Laboratory Work Order	Laboratory Sample ID	Sample Type	Units	PWQO	SW2				SW3	
										25-Apr-17	25-Apr-17	18-Oct-17	18-Oct-17	25-Apr-17	18-Oct-17
		WS-160900764-20170425-KR-102	WS-160900764-20170425-KR-103	WS-160900764-20171018-RD101	WS-160900764-20171018-RD102	WS-160900764-20170425-KR-101	WS-160900764-20171018-RD103								
		STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC								
		MAXX	MAXX	MAXX	MAXX	MAXX	MAXX								
		B783705	B783705	B7N2060	B7N2060	B783705	B7N2060								
		EGX442	EGX443	FJE561	FJE562	EGX441	FJE563								
			Field Duplicate		Field Duplicate										
<b>Semi-Volatile Organic Compounds</b>															
<b>Phthalates</b>															
Bis(2-Ethylhexyl)phthalate (DEHP)	µg/L	0.6 <sup>A</sup>	4 <sup>A</sup>	3 <sup>A</sup>	<1	<1	2 <sup>A</sup>	<1							
Diethyl Phthalate	µg/L	n/v	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1							
Dimethyl Phthalate	µg/L	n/v	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1							
<b>Polycyclic Aromatic Hydrocarbons</b>															
Acenaphthene	µg/L	n/v	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2							
Acenaphthylene	µg/L	n/v	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2							
Anthracene	µg/L	0.0008 <sup>C</sup>	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05							
Benzo(a)anthracene	µg/L	0.0004 <sup>C</sup>	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05							
Benzo(a)pyrene	µg/L	n/v	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01							
Benzo(b)fluoranthene	µg/L	n/v	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05							
Benzo(g,h,i)perylene	µg/L	0.00002 <sup>C</sup>	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05							
Benzo(k)fluoranthene	µg/L	0.0002 <sup>C</sup>	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05							
Chrysene	µg/L	0.0001 <sup>C</sup>	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05							
Dibenzo(a,h)anthracene	µg/L	0.002 <sup>C</sup>	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1							
Fluoranthene	µg/L	0.0008 <sup>C</sup>	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2							
Fluorene	µg/L	0.2 <sup>C</sup>	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2							
Indeno(1,2,3-cd)pyrene	µg/L	n/v	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1							
Methylnaphthalene (Total)	µg/L	n/v	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28							
Methylnaphthalene, 1-	µg/L	2 <sup>C</sup>	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2							
Methylnaphthalene, 2-	µg/L	2 <sup>C</sup>	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2							
Naphthalene	µg/L	7 <sup>C</sup>	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2							
Phenanthrene	µg/L	0.03 <sup>C</sup>	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1							
Pyrene	µg/L	n/v	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05							
<b>Remaining Semi-Volatile Organic Compounds</b>															
Biphenyl, 1,1'- (Biphenyl)	µg/L	0.2 <sup>C</sup>	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1							
Bis(2-Chloroethyl)ether	µg/L	200 <sup>C</sup>	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5							
Bis(2-Chloroisopropyl)ether	µg/L	n/v	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5							
Chloroaniline, 4-	µg/L	n/v	<1	<1	<1	<1	<1	<1							
Chlorophenol, 2- (ortho-Chlorophenol)	µg/L	n/v	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1							
Dichlorobenzidine, 3,3'-	µg/L	0.6 <sup>C</sup>	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5							
Dichlorophenol, 2,4-	µg/L	n/v	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1							
Dimethylphenol, 2,4-	µg/L	10 <sup>C</sup>	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5							
Dinitrophenol, 2,4-	µg/L	n/v	<2	<2	<2	<2	<2	<2							
Dinitrotoluene, 2,4-	µg/L	4 <sup>C</sup>	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3							
Dinitrotoluene, 2,6-	µg/L	6 <sup>C</sup>	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3							
Pentachlorophenol	µg/L	0.5 <sup>A</sup>	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1							
Phenol	µg/L	5 <sup>C</sup>	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5							
Trichlorobenzene, 1,2,4-	µg/L	0.5 <sup>A</sup>	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1							
Trichlorophenol, 2,4,5-	µg/L	n/v	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2							
Trichlorophenol, 2,4,6-	µg/L	n/v	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2							
<b>Volatile Organic Compounds</b>															
Acetone	µg/L	n/v	<10	<10	<10	<10	<10	<10							
Bromodichloromethane	µg/L	200 <sup>C</sup>	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50							
Bromoform (Tribromomethane)	µg/L	60 <sup>C</sup>	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0							
Bromomethane (Methyl bromide)	µg/L	0.9 <sup>C</sup>	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50							
Carbon Tetrachloride (Tetrachloromethane)	µg/L	n/v	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20							
Chlorobenzene (Monochlorobenzene)	µg/L	15 <sup>A</sup>	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20							
Chloroform (Trichloromethane)	µg/L	n/v	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20							
Dibromochloromethane	µg/L	40 <sup>C</sup>	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50							
Dichlorobenzene, 1,2-	µg/L	2.5 <sup>A</sup>	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50							
Dichlorobenzene, 1,3-	µg/L	2.5 <sup>A</sup>	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50							
Dichlorobenzene, 1,4-	µg/L	4 <sup>A</sup>	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50							
Dichlorodifluoromethane (Freon 12)	µg/L	n/v	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0							
Dichloroethane, 1,1-	µg/L	200 <sup>C</sup>	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20							
Dichloroethane, 1,2-	µg/L	100 <sup>C</sup>	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50							
Dichloroethene, 1,1-	µg/L	40 <sup>C</sup>	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20							
Dichloroethene, cis-1,2-	µg/L	200 <sup>C</sup>	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50							
Dichloroethene, trans-1,2-	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50							
Dichloropropane, 1,2-	µg/L	0.7 <sup>C</sup>	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20							
Dichloropropene, 1,3- (sum of isomers cis + trans)	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50							
Dichloropropene, cis-1,3-	µg/L	n/v	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30							
Dichloropropene, trans-1,3-	µg/L	7 <sup>C</sup>	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40							
Ethylene Dibromide (Dibromoethane, 1,2-)	µg/L	5 <sup>C</sup>	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20							
Hexane (n-Hexane)	µg/L	n/v	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0							
Methyl Ethyl Ketone (MEK) (2-Butanone)	µg/L	400 <sup>C</sup>	<10	<10	<10	<10	<10	<10							
Methyl Isobutyl Ketone (MIBK)	µg/L	n/v	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0							
Methyl tert-butyl ether (MTBE)	µg/L	200 <sup>C</sup>	<0.50	<0.50	<0.50	0.62	<0.50	<0.50							
Methylene Chloride (Dichloromethane)	µg/L	100 <sup>C</sup>	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0							
Styrene	µg/L	4 <sup>C</sup>	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50							
Tetrachloroethane, 1,1,1,2-	µg/L	20 <sup>C</sup>	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50							
Tetrachloroethane, 1,1,2,2-	µg/L	70 <sup>C</sup>	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50							
Tetrachloroethene (PCE)	µg/L	50 <sup>C</sup>	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20							
Trichloroethane, 1,1,1-	µg/L	10 <sup>C</sup>	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20							
Trichloroethane, 1,1,2-	µg/L	800 <sup>C</sup>	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50							
Trichloroethene (TCE)	µg/L	20 <sup>C</sup>	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20							
Trichlorofluoromethane (Freon 11)	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50							
Vinyl Chloride	µg/L	600 <sup>C</sup>	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20							

See notes on last page

**Table 3**  
**Summary of Surface Water Analytical Results**  
**Clarington Transformer Station**  
**Hydro One Networks Inc.**

**Notes:**

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

**Table 4**  
**Summary of Groundwater Analytical Results - Monitoring Wells**  
**Clarington Transformer Station**  
**Hydro One Networks Inc.**

Sample Location	Sample Date	Sample ID	Sampling Company	Laboratory	Laboratory Work Order	Laboratory Sample ID	Filtered	Sample Type	Units	ODWS	Ontario SCS	MW1-13-D								MW1-13-S				MW2-13-D						
												26-Apr-17	26-Apr-17	26-Apr-17	26-Apr-17	17-Oct-17	17-Oct-17	17-Oct-17	17-Oct-17	26-Apr-17	26-Apr-17	17-Oct-17	17-Oct-17	25-Apr-17	25-Apr-17	18-Oct-17	18-Oct-17			
												WG-160900764-20170426-RD-11	WG-160900764-20170426-KR-13	WG-160900764-20170426-RD-11A	WG-160900764-20170426-KR-13A	WG-160900764-20171017-RD06	WG-160900764-20171017-CF7	WG-160900764-20171017-RD06A	WG-160900764-20171017-CF7A	WG-160900764-20170426-RD-12	WG-160900764-20170426-RD-12A	WG-160900764-20171017-CF05	WG-160900764-20171017-CF05A	WG-160900764-20170425-KR-10	WG-160900764-20170425-KR-10A	WG-160900764-20171018-RD13	WG-160900764-20171018-RD13A			
												STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	
												MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	
												B785281	B785281	B785281	B785281	B7N0947	B7N0947	B7N0947	B7N0947	B785281	B785281	B7N0947	B7N0947	B783695	B783695	B7N2183	B7N2183	B7N2183		
												EHF902	EHF904	EHF903	EHF905	FIY623	FIY625	FIY624	FIY626	EHF900	EHF901	FIY621	FIY622	EGX374	EGX379	FJF449	FJF450	FJF449	FJF450	
												Field Filtered Metals	Field Filtered Metals	Lab Filtered SVOC	Lab Filtered SVOC	Field Filtered Metals	Field Filtered Metals	Lab Filtered SVOC	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC	
<b>General Chemistry</b>																														
Acidity	mg/L	n/v	n/v	<10	<10	-	-	<5.0	<5.0	-	-	18	-	9.4	-	<10	-	<5.0	-	-	-	-	-	<10	-	<5.0	-	-	-	-
Alkalinity, Bicarbonate (as CaCO3)	mg/L	n/v	n/v	180	180	-	-	180	180	-	-	210	-	220	-	89	-	90	-	-	-	-	-	89	-	90	-	-	-	-
Alkalinity, Carbonate (as CaCO3)	mg/L	n/v	n/v	2.1	2.1	-	-	2.2	2.3	-	-	1.4	-	1.5	-	1.5	-	1.9	-	-	-	-	-	1.5	-	1.9	-	-	-	-
Alkalinity, Total (as CaCO3)	mg/L	30-500 <sup>E</sup>	n/v	180	180	-	-	190	190	-	-	210	-	220	-	91	-	92	-	-	-	-	-	91	-	92	-	-	-	-
Ammonia (as N)	mg/L	n/v	n/v	<0.050	<0.050	-	-	0.053	<0.050	-	-	<0.050	-	<0.050	-	<0.050	-	<0.050	-	-	-	-	-	<0.050	-	<0.050	-	-	-	-
Anion Sum	meq/L	n/v	n/v	4.68	4.70	-	-	4.72	4.73	-	-	7.92	-	8.18	-	2.00	-	2.02	-	-	-	-	-	2.00	-	2.02	-	-	-	-
Cation Sum	meq/L	n/v	n/v	4.69	4.61	-	-	4.42	4.40	-	-	7.96	-	7.15	-	1.99	-	2.07	-	-	-	-	-	1.99	-	2.07	-	-	-	-
Chloride	mg/L	250 <sup>D</sup>	790 <sup>G</sup> 790 <sup>H</sup>	16	16	-	-	15	16	-	-	25	-	24	-	1.4	-	<1.0	-	-	-	-	-	1.4	-	<1.0	-	-	-	-
Cyanide (Free)	µg/L	200 <sup>C</sup>	52 <sup>D</sup> 52 <sup>H</sup>	<1	<1	-	-	<1	<1	-	-	<1	-	<1	-	<1	-	<1	-	-	-	-	<1	-	<1	-	-	-	-	-
Dissolved Organic Carbon (DOC)	mg/L	5 <sup>D</sup>	n/v	0.80	0.76	-	-	0.62	0.63	-	-	0.90	-	0.91	-	0.78	-	0.78	-	-	-	-	-	0.78	-	0.78	-	-	-	-
Electrical Conductivity, Lab	µmhos/cm	n/v	n/a <sup>GH</sup>	440	450	-	-	420	420	-	-	770	-	730	-	190	-	190	-	-	-	-	-	190	-	190	-	-	-	-
Fluoride	mg/L	1.5 <sup>C</sup>	n/v	0.27	0.27	-	-	0.28	0.27	-	-	0.11	-	0.15	-	0.85	-	0.81	-	-	-	-	-	0.85	-	0.81	-	-	-	-
Hardness (as CaCO3)	mg/L	80-100 <sup>E</sup>	n/v	200 <sup>E</sup>	200 <sup>E</sup>	-	-	190 <sup>E</sup>	190 <sup>E</sup>	-	-	380 <sup>E</sup>	-	340 <sup>E</sup>	-	41 <sup>E</sup>	-	45 <sup>E</sup>	-	-	-	-	-	41 <sup>E</sup>	-	45 <sup>E</sup>	-	-	-	-
Ion Balance	%	n/v	n/v	0.190	0.970	-	-	3.38	3.67	-	-	0.230	-	6.74	-	NC	-	NC	-	-	-	-	NC	-	NC	-	-	-	-	-
Langelier Index (at 20 C)	none	n/v	n/v	0.380	0.386	-	-	0.377	0.410	-	-	0.704	-	0.641	-	-0.193	-	-0.0640	-	-	-	-	-0.193	-	-0.0640	-	-	-	-	-
Langelier Index (at 4 C)	none	n/v	n/v	0.131	0.136	-	-	0.127	0.160	-	-	0.456	-	0.393	-	-0.444	-	-0.315	-	-	-	-	-0.444	-	-0.315	-	-	-	-	-
Nitrate (as N)	mg/L	10.0 <sup>C</sup>	n/v	<0.10	<0.10	-	-	<0.10	<0.10	-	-	12.6 <sup>C</sup>	-	13.4 <sup>C</sup>	-	<0.10	-	<0.10	-	-	-	-	-	<0.10	-	<0.10	-	-	-	-
Nitrate + Nitrite (as N)	mg/L	10.0 <sup>C</sup>	n/v	<0.10	<0.10	-	-	<0.10	<0.10	-	-	12.6 <sup>C</sup>	-	13.5 <sup>C</sup>	-	<0.10	-	<0.10	-	-	-	-	-	<0.10	-	<0.10	-	-	-	-
Nitrite (as N)	mg/L	1.0 <sup>C</sup>	n/v	<0.010	<0.010	-	-	<0.010	<0.010	-	-	0.013	-	0.067	-	<0.010	-	<0.010	-	-	-	-	-	<0.010	-	<0.010	-	-	-	-
Orthophosphate (as P)	mg/L	n/v	n/v	0.010	0.012	-	-	<0.010	<0.010	-	-	<0.010	-	<0.010	-	<0.010	-	<0.010	-	-	-	-	<0.010	-	<0.010	-	-	-	-	-
pH	S.U.	6.5-8.5 <sup>E</sup>	n/v	8.08	8.09	-	-	8.10	8.12	-	-	7.87	-	7.85	-	8.26	-	8.36	-	-	-	-	-	8.26	-	8.36	-	-	-	-
Saturation pH (at 20 C)	none	n/v	n/v	7.70	7.70	-	-	7.73	7.71	-	-	7.16	-	7.21	-	8.45	-	8.42	-	-	-	-	-	8.45	-	8.42	-	-	-	-
Saturation pH (at 4 C)	none	n/v	n/v	7.95	7.95	-	-	7.98	7.96	-	-	7.41	-	7.46	-	8.70	-	8.67	-	-	-	-	-	8.70	-	8.67	-	-	-	-
Sulfate	mg/L	500 <sup>D</sup>	n/v	27	28	-	-	27	27	-	-	100	-	100	-	4.9	-	6.3	-	-	-	-	-	4.9	-	6.3	-	-	-	-
Total Dissolved Solids	mg/L	500 <sup>D</sup>	n/v	260	252	-	-	225	205	-	-	468	-	520 <sup>D</sup>	-	128	-	115	-	-	-	-	-	128	-	115	-	-	-	-
Total Dissolved Solids (Calculated)	mg/L	500 <sup>D</sup>	n/v	250	250	-	-	250	250	-	-	460	-	460	-	110	-	120	-	-	-	-	-	110	-	120	-	-	-	-
Total Organic Carbon	mg/L	n/v	n/v	0.50	0.52	-	-	0.66	0.65	-	-	1.0	-	1.2	-	0.77	-	0.83	-	-	-	-	-	0.77	-	0.83	-	-	-	-
Total Suspended Solids	mg/L	n/v	n/v	<10	<10	-	-	<10	<10	-	-	<10	-	55	-	13	-	<10	-	-	-	-	-	13	-	<10	-	-	-	-
Turbidity, Lab	NTU	5 <sup>D</sup> 5 <sup>E</sup>	n/v	1.9	2.2	-	-	2.0	1.9	-	-	1.3	-	2.5	-	11 <sup>D</sup>	-	11 <sup>D</sup>	-	-	-	-	-	11 <sup>D</sup>	-	11 <sup>D</sup>	-	-	-	-
<b>BTEX and Petroleum Hydrocarbons</b>																														
Benzene	µg/L	1 <sup>C</sup>	0.5 <sup>G</sup> 5 <sup>H</sup>	<0.20	<0.20	-	-	<0.20	<0.20	-	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-	-	-	-	<0.20	-	<0.20	-	-	-	-	-
Toluene	µg/L	24 <sup>D</sup>	24 <sup>G</sup> 22 <sup>H</sup>	<0.20	<0.20	-	-	<0.20	<0.20	-	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-	-	-	-	<0.20	-	<0.20	-	-	-	-	-
Ethylbenzene	µg/L	2.4 <sup>D</sup>	2.4 <sup>G</sup> 2.4 <sup>H</sup>	<0.20	<0.20	-	-	<0.20	<0.20	-	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-	-	-	-	<0.20	-	<0.20	-	-	-	-	-
Xylene, m & p-	µg/L	300 <sup>D</sup>	31 <sup>GH</sup>	<0.20	<0.20	-	-	<0.20	<0.20	-	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-	-	-	-	<0.20	-	<0.20	-	-	-	-	-
Xylene, o-	µg/L	300 <sup>D</sup>	31 <sup>GH</sup>	<0.20	<0.20	-	-	<0.20	<0.20	-	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-	-	-	-	<0.20	-	<0.20	-	-	-	-	-
Xylenes, Total	µg/L	300 <sup>D</sup>	72 <sup>G</sup> 300 <sup>H</sup>	<0.20	<0.20	-	-	<0.20	<0.20	-	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-	-	-	-	<0.20	-	<0.20	-	-	-	-	-
PHC F1 (C6-C10 range)	µg/L	n/v	37 <sup>GH</sup>	<25	<25	-	-	<25	<25	-	-	<25	-	<25	-	<25	-	<25	-	-	-	-	<25	-	<25	-	-	-	-	-
PHC F1 (C6-C10 range) minus BTEX	µg/L	n/v	420 <sup>GH</sup>	<25	<25	-	-	<25	<25	-	-	<25	-	<25	-	<25	-	<25	-	-	-	-	<25	-	<25	-	-	-	-	-
PHC F2 (>C10-C16 range)	µg/L	n/v	150 <sup>GH</sup>	<100	<100	-	-	<100	<100	-	-	<100	-	<100	-	<100	-	<100	-	-	-	-	<100	-	<100	-	-	-	-	-
PHC F3 (>C16-C34 range)	µg/L	n/v	500 <sup>GH</sup>	<200	<200	-	-	<200	<200	-	-	<200	-	<200	-	<200	-	<200	-	-	-	-	<200	-	<200	-	-	-	-	-
PHC F4 (>C34-C50 range)	µg/L																													



**Table**  
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**Clarington Transformer Station**  
**Hydro One Networks Inc.**

Sample Location	Sample Date	Sample ID	Sampling Company	Laboratory	Laboratory Work Order	Laboratory Sample ID	Filtered	Sample Type	Units	ODWS	Ontario SCS	MW1-13-D								MW1-13-S				MW2-13-D					
												26-Apr-17	26-Apr-17	26-Apr-17	26-Apr-17	17-Oct-17	17-Oct-17	17-Oct-17	17-Oct-17	26-Apr-17	26-Apr-17	17-Oct-17	17-Oct-17	25-Apr-17	25-Apr-17	18-Oct-17	18-Oct-17		
												WG-160900764-20170426-RD-11	WG-160900764-20170426-KR-13	WG-160900764-20170426-RD-11A	WG-160900764-20170426-KR-13A	WG-160900764-20171017-RD06	WG-160900764-20171017-CF7	WG-160900764-20171017-RD06A	WG-160900764-20171017-CF7A	WG-160900764-20170426-RD-12	WG-160900764-20170426-RD-12A	WG-160900764-20171017-CF05	WG-160900764-20171017-CF05A	WG-160900764-20170425-KR-10	WG-160900764-20170425-KR-10A	WG-160900764-20171018-RD13	WG-160900764-20171018-RD13A		
												STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC
												MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX
												B785281	B785281	B785281	B785281	B7N0947	B7N0947	B7N0947	B7N0947	B785281	B785281	B7N0947	B7N0947	B783695	B783695	B7N2183	B7N2183	B7N2183	
												EHF902	EHF904	EHF903	EHF905	FIY623	FIY625	FIY624	FIY626	EHF900	EHF901	FIY621	FIY622	EGX374	EGX379	FJF449	FJF450	FJF449	FJF450
												Field Filtered Metals	Field Filtered Metals	Lab Filtered SVOC	Lab Filtered SVOC	Field Filtered Metals	Field Filtered Metals	Lab Filtered SVOC	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC
													Field Duplicate		Field Duplicate		Field Duplicate		Field Duplicate		Lab Filtered SVOC		Lab Filtered SVOC		Lab Filtered SVOC		Lab Filtered SVOC		Lab Filtered SVOC
<b>Metals</b>																													
Aluminum	µg/L	100 <sup>F</sup>	n/v	<5.0	7.8	-	-	<5	<5	-	-	<5.0	-	<5	-	-	-	-	<5.0	-	<5	-	6.9	-	6.6	-	-	-	-
Antimony	µg/L	6 <sup>B</sup>	6 <sup>G</sup> 6 <sup>H</sup>	<0.50	<0.50	-	-	<0.5	<0.5	-	-	<0.50	-	<0.5	-	-	-	-	<0.50	-	<0.5	-	<0.50	-	<0.5	-	<0.5	-	-
Arsenic	µg/L	25 <sup>B</sup>	25 <sup>G</sup> 25 <sup>H</sup>	1.3	1.3	-	-	1.3	1.5	-	-	<1.0	-	<1	-	-	-	-	<1.0	-	<1	-	<1.0	-	<1	-	<1	-	-
Barium	µg/L	1,000 <sup>C</sup>	1,000 <sup>G</sup> 1,000 <sup>H</sup>	110	110	-	-	110	110	-	-	60	-	70	-	-	-	-	60	-	70	-	18	-	19	-	19	-	-
Beryllium	µg/L	n/v	4 <sup>G</sup> 4 <sup>H</sup>	<0.50	<0.50	-	-	<0.5	<0.5	-	-	<0.50	-	<0.5	-	-	-	-	<0.50	-	<0.5	-	<0.50	-	<0.5	-	<0.5	-	-
Boron	µg/L	5,000 <sup>B</sup>	5,000 <sup>G</sup> 5,000 <sup>H</sup>	32	29	-	-	31	31	-	-	10	-	16	-	-	-	-	10	-	16	-	130	-	130	-	130	-	-
Cadmium	µg/L	5 <sup>C</sup>	2.1 <sup>G</sup> 2.1 <sup>H</sup>	<0.10	<0.10	-	-	<0.1	<0.1	-	-	<0.10	-	<0.1	-	-	-	-	<0.10	-	<0.1	-	<0.10	-	<0.1	-	<0.1	-	-
Calcium	µg/L	n/v	n/v	28,000	27,000	-	-	25,000	25,000	-	-	96,000	-	82,000	-	-	-	-	96,000	-	82,000	-	8,800	-	9,200	-	9,200	-	-
Chromium	µg/L	50 <sup>C</sup>	50 <sup>G</sup> 50 <sup>H</sup>	<5.0	<5.0	-	-	<5	<5	-	-	<5.0	-	<5	-	-	-	-	<5.0	-	<5	-	<5.0	-	<5	-	<5	-	-
Chromium (Hexavalent)	µg/L	n/v	25 <sup>G</sup> 25 <sup>H</sup>	<0.50	<0.50	-	-	<0.50	<0.50	-	-	0.69	-	<0.50	-	-	-	-	0.69	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	-
Cobalt	µg/L	n/v	3.8 <sup>G</sup> 3.8 <sup>H</sup>	<0.50	<0.50	-	-	<0.5	<0.5	-	-	<0.50	-	<0.5	-	-	-	-	<0.50	-	<0.5	-	<0.50	-	<0.5	-	<0.5	-	-
Copper	µg/L	1,000 <sup>D</sup>	69 <sup>G</sup> 69 <sup>H</sup>	<1.0	<1.0	-	-	<1	<1	-	-	<1.0	-	<1	-	-	-	-	<1.0	-	<1	-	<1.0	-	<1	-	<1	-	-
Iron	µg/L	300 <sup>D</sup>	n/v	160	160	-	-	170	160	-	-	<100	-	<100	-	-	-	-	<100	-	<100	-	<100	-	<100	-	<100	-	-
Lead	µg/L	10 <sup>C</sup>	10 <sup>G</sup> 10 <sup>H</sup>	<0.50	<0.50	-	-	<0.5	<0.5	-	-	<0.50	-	<0.5	-	-	-	-	<0.50	-	<0.5	-	<0.50	-	<0.5	-	<0.5	-	-
Magnesium	µg/L	n/v	n/v	33,000	32,000	-	-	32,000	31,000	-	-	34,000	-	33,000	-	-	-	-	34,000	-	33,000	-	4,600	-	5,300	-	5,300	-	-
Manganese	µg/L	50 <sup>D</sup>	n/v	5.9	6.2	-	-	4.7	4.7	-	-	2.7	-	3.8	-	-	-	-	2.7	-	3.8	-	2.6	-	3.1	-	3.1	-	-
Mercury	µg/L	1 <sup>C</sup>	0.1 <sup>G</sup> 0.29 <sup>H</sup>	<0.1	<0.1	-	-	<0.1	<0.1	-	-	<0.1	-	<0.1	-	-	-	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	-
Molybdenum	µg/L	n/v	70 <sup>G</sup> 70 <sup>H</sup>	1.9	1.9	-	-	1.9	1.8	-	-	2.7	-	3.7	-	-	-	-	2.7	-	3.7	-	5.6	-	3.8	-	3.8	-	-
Nickel	µg/L	n/v	100 <sup>G</sup> 100 <sup>H</sup>	<1.0	<1.0	-	-	<1	<1	-	-	<1.0	-	1.1	-	-	-	-	<1.0	-	1.1	-	<1.0	-	<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	2,600	2,600	-	-	2,400	2,400	-	-	3,000	-	3,900	-	-	-	-	3,000	-	3,900	-	2,000	-	1,800	-	1,800	-	-
Selenium	µg/L	10 <sup>C</sup>	10 <sup>G</sup> 10 <sup>H</sup>	<2.0	<2.0	-	-	<2	<2	-	-	<2.0	-	<2	-	-	-	-	<2.0	-	<2	-	<2.0	-	<2	-	<2	-	-
Silicon	µg/L	n/v	n/v	11,000	11,000	-	-	11,000	11,000	-	-	7,200	-	7,400	-	-	-	-	7,200	-	7,400	-	4,400	-	4,900	-	4,900	-	-
Silver	µg/L	n/v	1.2 <sup>G</sup> 1.2 <sup>H</sup>	<0.10	<0.10	-	-	<0.1	<0.1	-	-	<0.10	-	<0.1	-	-	-	-	<0.10	-	<0.1	-	<0.10	-	<0.1	-	<0.1	-	-
Sodium	µg/L	200,000 <sup>G</sup> 20,000 <sup>F</sup>	490,000 <sup>G</sup> 490,000 <sup>H</sup>	12,000	12,000	-	-	11,000	11,000	-	-	5,900	-	5,900	-	-	-	-	5,900	-	5,900	-	26,000 <sup>F</sup>	-	26,000 <sup>F</sup>	-	26,000 <sup>F</sup>	-	-
Strontium	µg/L	n/v	n/v	580	570	-	-	610	590	-	-	330	-	340	-	-	-	-	330	-	340	-	230	-	270	-	270	-	-
Thallium	µg/L	n/v	2 <sup>G</sup> 2 <sup>H</sup>	<0.050	<0.050	-	-	<0.05	<0.05	-	-	<0.050	-	<0.05	-	-	-	-	<0.050	-	<0.05	-	<0.050	-	<0.05	-	<0.05	-	-
Titanium	µg/L	n/v	n/v	<5.0	<5.0	-	-	<5	<5	-	-	<5.0	-	<5	-	-	-	-	<5.0	-	<5	-	<5.0	-	<5	-	<5	-	-
Uranium	µg/L	20 <sup>C</sup>	20 <sup>G</sup> 20 <sup>H</sup>	<0.10	<0.10	-	-	<0.1	<0.1	-	-	2.2	-	2.9	-	-	-	-	2.2	-	2.9	-	<0.10	-	<0.1	-	<0.1	-	-
Vanadium	µg/L	n/v	6.2 <sup>G</sup> 6.2 <sup>H</sup>	<0.50	<0.50	-	-	<0.5	<0.5	-	-	<0.50	-	<0.5	-	-	-	-	<0.50	-	<0.5	-	<0.50	-	<0.5	-	<0.5	-	-
Zinc	µg/L	5,000 <sup>D</sup>	890 <sup>G</sup> 890 <sup>H</sup>	<5.0	<5.0	-	-	<5	<5	-	-	<5.0	-	<5	-	-	-	-	<5.0	-	<5	-	<5.0	-	<5	-	<5	-	-
Zirconium	µg/L	n/v	n/v	<1.0	<1.0	-	-	<1	<1	-	-	<1.0	-	<1	-	-	-	-	<1.0	-	<1	-	<1.0	-	<1	-	<1	-	-
<b>Polychlorinated Biphenyls</b>																													
Aroclor 1242	µg/L	n/v	14 <sup>GH</sup>	<0.05	<0.05	-	-	<0.05	<0.05	-	-	<0.05	-	<0.05	-	-	-	<0.05	-	<0.05	-	<0.05	-	<0.05	-	<0.05	-	<0.05	-
Aroclor 1248	µg/L	n/v	14 <sup>GH</sup>	<0.05	<0.05	-	-	<0.05	<0.05	-	-	<0.05	-	<0.05	-	-	-	<0.05	-	<0.05	-	<0.05	-	<0.05	-	<0.05	-	<0.05	-
Aroclor 1254	µg/L	n/v	14 <sup>GH</sup>	<0.05	<0.05	-	-	<0.05	<0.05	-	-	<0.05	-	<0.05	-	-	-	<0.05	-	<0.05	-	<0.05	-	<0.05	-	<0.05	-	<0.05	-
Aroclor 1260	µg/L	n/v	14 <sup>GH</sup>	<0.05	<0.05	-	-	<0.05	<0.05	-	-	<0.05	-	<0.05	-	-	-	<0.05	-	<0.05	-	<0.05	-	<0.05	-	<0.05	-	<0.05	-
Polychlorinated Biphenyls (PCBs)	µg/L	3 <sup>B</sup>	0.2 <sup>GH</sup>	<0.05	<0.05	-	-	<0.05	<0.05	-	-	<0.05	-	<0.05	-	-	-	<0.05	-	<0.05	-	<0.05	-	<0.05	-	<0.05	-	<0.05	-

See notes on last page

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

Sample Location	Sample Date	Sample ID	Sampling Company	Laboratory	Laboratory Work Order	Laboratory Sample ID	Filtered	Sample Type	Units	ODWS	Ontario SCS	MW1-13-D								MW1-13-S				MW2-13-D				
												26-Apr-17	26-Apr-17	26-Apr-17	26-Apr-17	17-Oct-17	17-Oct-17	17-Oct-17	17-Oct-17	26-Apr-17	26-Apr-17	17-Oct-17	17-Oct-17	25-Apr-17	25-Apr-17	18-Oct-17	18-Oct-17	
												WG-160900764-20170426-RD-11	WG-160900764-20170426-KR-13	WG-160900764-20170426-RD-11A	WG-160900764-20170426-KR-13A	WG-160900764-20171017-RD06	WG-160900764-20171017-CF7	WG-160900764-20171017-RD06A	WG-160900764-20171017-CF7A	WG-160900764-20170426-RD-12	WG-160900764-20170426-RD-12A	WG-160900764-20171017-CF05	WG-160900764-20171017-CF05A	WG-160900764-20170425-KR-10	WG-160900764-20170425-KR-10A	WG-160900764-20171018-RD13	WG-160900764-20171018-RD13A	
												STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC
												MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX
												B785281	B785281	B785281	B785281	B7N0947	B7N0947	B7N0947	B7N0947	B785281	B785281	B7N0947	B7N0947	B783695	B783695	B7N2183	B7N2183	
												EHF902	EHF904	EHF903	EHF905	FIY623	FIY625	FIY624	FIY626	EHF900	EHF901	FIY621	FIY622	EGX374	EGX379	FJF449	FJF450	
												Field Filtered Metals	Field Filtered Metals	Lab Filtered SVOC	Lab Filtered SVOC	Field Filtered Metals	Field Filtered Metals	Lab Filtered SVOC	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC	
													Field Duplicate		Field Duplicate		Field Duplicate		Field Duplicate		Field Duplicate		Field Duplicate		Field Duplicate		Field Duplicate	
<b>Semi-Volatile Organic Compounds</b>																												
<b>Phthalates</b>																												
Bis(2-Ethylhexyl)phthalate (DEHP)	µg/L	n/v	10 <sup>0</sup> 10 <sup>H</sup>	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1									
Diethyl Phthalate	µg/L	n/v	30 <sup>0</sup> 30 <sup>H</sup>	<0.1	<0.1	<0.1	<0.1	<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 <sup>0</sup> 30 <sup>H</sup>	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1									
<b>Polycyclic Aromatic Hydrocarbons</b>																												
Acenaphthene	µg/L	n/v	4.1 <sup>0</sup> 4.1 <sup>H</sup>	<0.2	<0.2	<0.2	<0.2	<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 <sup>0</sup> 1 <sup>H</sup>	<0.2	<0.2	<0.2	<0.2	<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 <sup>0</sup> 1 <sup>H</sup>	<0.05	<0.05	<0.05	<0.05	<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 <sup>0</sup> 1 <sup>H</sup>	<0.05	<0.05	<0.05	<0.05	<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 <sup>C</sup>	0.01 <sup>0</sup> 0.01 <sup>H</sup>	<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)fluoranthene	µg/L	n/v	0.1 <sup>0</sup> 0.1 <sup>H</sup>	<0.05	<0.05	<0.05	<0.05	<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 <sup>0</sup> 0.2 <sup>H</sup>	<0.05	<0.05	<0.05	<0.05	<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 <sup>0</sup> 0.1 <sup>H</sup>	<0.05	<0.05	<0.05	<0.05	<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 <sup>0</sup> 0.1 <sup>H</sup>	<0.05	<0.05	<0.05	<0.05	<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 <sup>0</sup> 0.2 <sup>H</sup>	<0.1	<0.1	<0.1	<0.1	<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 <sup>0</sup> 0.41 <sup>H</sup>	<0.2	<0.2	<0.2	<0.2	<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 <sup>0</sup> 120 <sup>H</sup>	<0.2	<0.2	<0.2	<0.2	<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 <sup>0</sup> 0.2 <sup>H</sup>	<0.1	<0.1	<0.1	<0.1	<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 <sup>0</sup> 3.2 <sup>H</sup>	<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	3 <sup>GH</sup>	<0.2	<0.2	<0.2	<0.2	<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	3 <sup>GH</sup>	<0.2	<0.2	<0.2	<0.2	<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 <sup>0</sup> 11 <sup>H</sup>	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2									
Phenanthrene	µg/L	n/v	1 <sup>0</sup> 1 <sup>H</sup>	<0.1	<0.1	<0.1	<0.1	<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 <sup>0</sup> 4.1 <sup>H</sup>	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05									
<b>Remaining Semi-Volatile Organic Compounds</b>																												
Biphenyl, 1,1'- (Biphenyl)	µg/L	n/v	0.5 <sup>0</sup> 0.5 <sup>H</sup>	<0.1	<0.1	<0.1	<0.1	<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 <sup>0</sup> 5 <sup>H</sup>	<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 <sup>0</sup> 120 <sup>H</sup>	<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 <sup>0</sup> 10 <sup>H</sup>	<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 <sup>0</sup> 8.9 <sup>H</sup>	<0.1	<0.1	<0.1	<0.1	<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 <sup>0</sup> 0.5 <sup>H</sup>	<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 <sup>C</sup> 0.3 <sup>D</sup>	20 <sup>0</sup> 20 <sup>H</sup>	<0.1	<0.1	<0.1	<0.1	<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 <sup>0</sup> 59 <sup>H</sup>	<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 <sup>0</sup> 10 <sup>H</sup>	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2									
Dinitrotoluene, 2,4-	µg/L	n/v	5 <sup>GH</sup>	<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 <sup>GH</sup>	<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 <sup>C</sup> 30 <sup>D</sup>	30 <sup>0</sup> 30 <sup>H</sup>	<0.1	<0.1	<0.1	<0.1	<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 <sup>0</sup> 890 <sup>H</sup>	<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 <sup>0</sup> 70 <sup>H</sup>	<0.1	<0.1	<0.1	<0.1	<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 <sup>0</sup> 8.9 <sup>H</sup>	<0.2	<0.2	<0.2	<0.2	<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 <sup>C</sup> 2 <sup>D</sup>	2 <sup>0</sup> 2 <sup>H</sup>	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2									

See notes on last page

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

Sample Location	Sample Date	Sample ID	Sampling Company	Laboratory	Laboratory Work Order	Laboratory Sample ID	Filtered	Sample Type	Units	ODWS	Ontario SCS	MW1-13-D				MW1-13-S				MW2-13-D									
												26-Apr-17	26-Apr-17	26-Apr-17	26-Apr-17	17-Oct-17	17-Oct-17	17-Oct-17	17-Oct-17	26-Apr-17	26-Apr-17	17-Oct-17	17-Oct-17	25-Apr-17	25-Apr-17	18-Oct-17	18-Oct-17		
												WG-160900764-20170426-RD-11	WG-160900764-20170426-KR-13	WG-160900764-20170426-RD-11A	WG-160900764-20170426-KR-13A	WG-160900764-20171017-RD06	WG-160900764-20171017-CF7	WG-160900764-20171017-RD06A	WG-160900764-20171017-CF7A	WG-160900764-20170426-RD-12	WG-160900764-20170426-RD-12A	WG-160900764-20171017-CF05	WG-160900764-20171017-CF05A	WG-160900764-20170425-KR-10	WG-160900764-20170425-KR-10A	WG-160900764-20171018-RD13	WG-160900764-20171018-RD13A		
												STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	
												MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	
												B785281	B785281	B785281	B785281	B7N0947	B7N0947	B7N0947	B7N0947	B7N0947	B785281	B785281	B7N0947	B7N0947	B785281	B785281	B7N2183	B7N2183	
												EHF902	EHF904	EHF903	EHF905	FIY623	FIY625	FIY624	FIY626	FIY626	EHF900	EHF901	FIY621	FIY622	EGX374	EGX379	FJF449	FJF450	
												Field Filtered Metals	Field Filtered Metals	Lab Filtered SVOC	Lab Filtered SVOC	Field Filtered Metals	Field Filtered Metals	Lab Filtered SVOC	Lab Filtered SVOC	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC	
<b>Volatiles Organic Compounds</b>																													
Acetone	µg/L	n/v	2,700 <sup>Q</sup> 2,700 <sup>H</sup>	<10	<10	-	-	<10	<10	-	-	<10	-	<10	-	<10	-	<10	-	<10	-	<10	-	<10	-	<10	-	<10	-
Bromodichloromethane	µg/L	n/v	16 <sup>H</sup>	<0.50	<0.50	-	-	<0.50	<0.50	-	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-
Bromoform (Tribromomethane)	µg/L	n/v	5 <sup>Q</sup> 25 <sup>H</sup>	<1.0	<1.0	-	-	<1.0	<1.0	-	-	<1.0	-	<1.0	-	<1.0	-	<1.0	-	<1.0	-	<1.0	-	<1.0	-	<1.0	-	<1.0	-
Bromomethane (Methyl bromide)	µg/L	n/v	0.89 <sup>Q</sup> 0.89 <sup>H</sup>	<0.50	<0.50	-	-	<0.50	<0.50	-	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-
Carbon Tetrachloride (Tetrachloromethane)	µg/L	2 <sup>C</sup>	0.2 <sup>Q</sup> 0.79 <sup>H</sup>	<0.20	<0.20	-	-	<0.20	<0.20	-	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-
Chlorobenzene (Monochlorobenzene)	µg/L	80 <sup>C</sup> 30 <sup>D</sup>	30 <sup>Q</sup> 30 <sup>H</sup>	<0.20	<0.20	-	-	<0.20	<0.20	-	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-
Chloroform (Trichloromethane)	µg/L	n/v	2 <sup>Q</sup> 2.4 <sup>H</sup>	<0.20	<0.20	-	-	<0.20	<0.20	-	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-
Dibromochloromethane	µg/L	n/v	25 <sup>Q</sup> 25 <sup>H</sup>	<0.50	<0.50	-	-	<0.50	<0.50	-	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-
Dichlorobenzene, 1,2-	µg/L	200 <sup>C</sup> 3 <sup>D</sup>	3 <sup>Q</sup> 3 <sup>H</sup>	<0.50	<0.50	-	-	<0.50	<0.50	-	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-
Dichlorobenzene, 1,3-	µg/L	n/v	59 <sup>Q</sup> 59 <sup>H</sup>	<0.50	<0.50	-	-	<0.50	<0.50	-	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-
Dichlorobenzene, 1,4-	µg/L	5 <sup>C</sup> 1 <sup>D</sup>	0.5 <sup>Q</sup> 1 <sup>H</sup>	<0.50	<0.50	-	-	<0.50	<0.50	-	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-
Dichlorodifluoromethane (Freon 12)	µg/L	n/v	590 <sup>Q</sup> 590 <sup>H</sup>	<1.0	<1.0	-	-	<1.0	<1.0	-	-	<1.0	-	<1.0	-	<1.0	-	<1.0	-	<1.0	-	<1.0	-	<1.0	-	<1.0	-	<1.0	-
Dichloroethane, 1,1-	µg/L	n/v	5 <sup>Q</sup> 5 <sup>H</sup>	<0.20	<0.20	-	-	<0.20	<0.20	-	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-
Dichloroethane, 1,2-	µg/L	5 <sup>B</sup>	0.5 <sup>Q</sup> 1.6 <sup>H</sup>	<0.50	<0.50	-	-	<0.50	<0.50	-	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-
Dichloroethene, 1,1-	µg/L	14 <sup>C</sup>	0.5 <sup>Q</sup> 1.6 <sup>H</sup>	<0.20	<0.20	-	-	<0.20	<0.20	-	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-
Dichloroethene, cis-1,2-	µg/L	n/v	1.6 <sup>Q</sup> 1.6 <sup>H</sup>	<0.50	<0.50	-	-	<0.50	<0.50	-	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-
Dichloroethene, trans-1,2-	µg/L	n/v	1.6 <sup>Q</sup> 1.6 <sup>H</sup>	<0.50	<0.50	-	-	<0.50	<0.50	-	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-
Dichloropropane, 1,2-	µg/L	n/v	0.58 <sup>Q</sup> 5 <sup>H</sup>	<0.20	<0.20	-	-	<0.20	<0.20	-	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-
Dichloropropene, 1,3- (sum of isomers cis + trans)	µg/L	n/v	0.5 <sup>GH</sup>	<0.50	<0.50	-	-	<0.50	<0.50	-	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-
Dichloropropene, cis-1,3-	µg/L	n/v	3 <sup>GH</sup>	<0.30	<0.30	-	-	<0.30	<0.30	-	-	<0.30	-	<0.30	-	<0.30	-	<0.30	-	<0.30	-	<0.30	-	<0.30	-	<0.30	-	<0.30	-
Dichloropropene, trans-1,3-	µg/L	n/v	3 <sup>GH</sup>	<0.40	<0.40	-	-	<0.40	<0.40	-	-	<0.40	-	<0.40	-	<0.40	-	<0.40	-	<0.40	-	<0.40	-	<0.40	-	<0.40	-	<0.40	-
Ethylene Dibromide (Dibromoethane, 1,2-)	µg/L	n/v	0.2 <sup>Q</sup> 0.2 <sup>H</sup>	<0.20	<0.20	-	-	<0.20	<0.20	-	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-
Hexane (n-Hexane)	µg/L	n/v	5 <sup>Q</sup> 51 <sup>H</sup>	<1.0	<1.0	-	-	<1.0	<1.0	-	-	<1.0	-	<1.0	-	<1.0	-	<1.0	-	<1.0	-	<1.0	-	<1.0	-	<1.0	-	<1.0	-
Methyl Ethyl Ketone (MEK) (2-Butanone)	µg/L	n/v	1,800 <sup>Q</sup> 1,800 <sup>H</sup>	<10	<10	-	-	<10	<10	-	-	<10	-	<10	-	<10	-	<10	-	<10	-	<10	-	<10	-	<10	-	<10	-
Methyl Isobutyl Ketone (MIBK)	µg/L	n/v	640 <sup>Q</sup> 640 <sup>H</sup>	<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	-
Methyl tert-butyl ether (MTBE)	µg/L	n/v	15 <sup>Q</sup> 15 <sup>H</sup>	<0.50	<0.50	-	-	<0.50	<0.50	-	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-
Methylene Chloride (Dichloromethane)	µg/L	50 <sup>C</sup>	26 <sup>Q</sup> 50 <sup>H</sup>	<2.0	<2.0	-	-	<2.0	<2.0	-	-	<2.0	-	<2.0	-	<2.0	-	<2.0	-	<2.0	-	<2.0	-	<2.0	-	<2.0	-	<2.0	-
Styrene	µg/L	n/v	5.4 <sup>Q</sup> 5.4 <sup>H</sup>	<0.50	<0.50	-	-	<0.50	<0.50	-	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-
Tetrachloroethane, 1,1,1,2-	µg/L	n/v	1.1 <sup>Q</sup> 1.1 <sup>H</sup>	<0.50	<0.50	-	-	<0.50	<0.50	-	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-
Tetrachloroethane, 1,1,2,2-	µg/L	n/v	0.5 <sup>Q</sup> 1 <sup>H</sup>	<0.50	<0.50	-	-	<0.50	<0.50	-	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-
Tetrachloroethene (PCE)	µg/L	30 <sup>C</sup>	0.5 <sup>Q</sup> 1.6 <sup>H</sup>	<0.20	<0.20	-	-	<0.20	<0.20	-	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-
Trichloroethane, 1,1,1-	µg/L	n/v	23 <sup>Q</sup> 200 <sup>H</sup>	<0.20	<0.20	-	-	<0.20	<0.20	-	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-
Trichloroethane, 1,1,2-	µg/L	n/v	0.5 <sup>Q</sup> 4.7 <sup>H</sup>	<0.50	<0.50	-	-	<0.50	<0.50	-	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-
Trichloroethene (TCE)	µg/L	5 <sup>C</sup>	0.5 <sup>Q</sup> 1.6 <sup>H</sup>	<0.20	<0.20	-	-	<0.20	<0.20	-	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-
Trichlorofluoromethane (Freon 11)	µg/L	n/v																											

**Table**  
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**Clarington Transformer Station**  
**Hydro One Networks Inc.**

Sample Location	Sample Date	Sample ID	Sampling Company	Laboratory	Laboratory Work Order	Laboratory Sample ID	Filtered	Sample Type	Units	ODWS	Ontario SCS	MW2-13-S				MW3-13-D				MW3-13-S				MW4-13-D	
												25-Apr-17	25-Apr-17	18-Oct-17	18-Oct-17	25-Apr-17	25-Apr-17	17-Oct-17	17-Oct-17	25-Apr-17	25-Apr-17	16-Oct-17	16-Oct-17	16-Oct-17	16-Oct-17
												WG-160900764-20170425-KR-09	WG-160900764-20170425-KR-09A	WG-160900764-20171018-CF14	WG-160900764-20171018-CF14A	WG-160900764-20170425-KR-07	WG-160900764-20170425-KR-07A	WG-160900764-20171017-RD09	WG-160900764-20171017-RD09A	WG-160900764-20170425-KR-08	WG-160900764-20170425-KR-08A	WG-160900764-20171016-RD04	WG-160900764-20171016-RD04A	WG-160900764-20171016-RD03	WG-160900764-20171016-RD03A
												STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC
												MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	
												B783695	B783695	B7N2183	B7N2183	B783695	B783695	B7N0947	B7N0947	B783695	B783695	B7M9492	B7M9492	B7M9492	
												EGX373	EGX378	FJF451	FJF452	EGX371	EGX376	FIY629	FIY630	EGX372	EGX377	FIQ046	FIQ047	FIQ044	FIQ045
												Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC
<b>General Chemistry</b>																									
Acidity	mg/L	n/v	n/v	10	-	<5.0	-	13	-	<5.0	-	15	-	<5.0	-	<5.0	-								
Alkalinity, Bicarbonate (as CaCO3)	mg/L	n/v	n/v	180	-	190	-	160	-	160	-	230	-	230	-	130	-								
Alkalinity, Carbonate (as CaCO3)	mg/L	n/v	n/v	2.2	-	2.8	-	1.2	-	1.5	-	2.4	-	2.6	-	1.8	-								
Alkalinity, Total (as CaCO3)	mg/L	30-500 <sup>E</sup>	n/v	180	-	190	-	160	-	160	-	230	-	230	-	130	-								
Ammonia (as N)	mg/L	n/v	n/v	<0.050	-	0.064	-	<0.050	-	<0.050	-	<0.050	-	<0.050	-	0.12	-								
Anion Sum	meq/L	n/v	n/v	4.26	-	4.41	-	16.4	-	14.7	-	7.04	-	7.17	-	7.89	-								
Cation Sum	meq/L	n/v	n/v	4.20	-	4.05	-	17.1	-	15.0	-	6.91	-	7.22	-	7.30	-								
Chloride	mg/L	250 <sup>D</sup>	790 <sup>G</sup> 790 <sup>H</sup>	4.5	-	4.0	-	21	-	20	-	15	-	26	-	8.0	-								
Cyanide (Free)	µg/L	200 <sup>C</sup>	52 <sup>D</sup> 52 <sup>H</sup>	<1	-	<1	-	<1	-	<1	-	<1	-	<1	-	<1	-								
Dissolved Organic Carbon (DOC)	mg/L	5 <sup>D</sup>	n/v	0.74	-	0.79	-	1.6	-	1.3	-	0.80	-	0.80	-	0.86	-								
Electrical Conductivity, Lab	µmhos/cm	n/v	n/a <sup>GH</sup>	400	-	370	-	1,600	-	1,400	-	660	-	630	-	710	-								
Fluoride	mg/L	1.5 <sup>C</sup>	n/v	0.28	-	0.30	-	0.32	-	0.38	-	0.28	-	0.29	-	0.64	-								
Hardness (as CaCO3)	mg/L	80-100 <sup>E</sup>	n/v	190 <sup>E</sup>	-	180 <sup>E</sup>	-	440 <sup>E</sup>	-	370 <sup>E</sup>	-	290 <sup>E</sup>	-	310 <sup>E</sup>	-	130 <sup>E</sup>	-								
Ion Balance	%	n/v	n/v	0.640	-	4.23	-	2.04	-	0.920	-	0.920	-	0.350	-	3.89	-								
Langelier Index (at 20 C)	none	n/v	n/v	0.452	-	0.579	-	0.584	-	0.623	-	0.716	-	0.803	-	0.209	-								
Langelier Index (at 4 C)	none	n/v	n/v	0.202	-	0.328	-	0.339	-	0.377	-	0.468	-	0.555	-	-0.0390	-								
Nitrate (as N)	mg/L	10.0 <sup>a</sup> <sup>C</sup>	n/v	<0.10	-	<0.10	-	0.31	-	0.19	-	1.30	-	1.18	-	0.22	-								
Nitrate + Nitrite (as N)	mg/L	10.0 <sup>a</sup> <sup>C</sup>	n/v	<0.10	-	<0.10	-	0.31	-	0.19	-	1.30	-	1.20	-	0.22	-								
Nitrite (as N)	mg/L	1.0 <sup>a</sup> <sup>C</sup>	n/v	<0.010	-	<0.010	-	<0.010	-	<0.010	-	<0.010	-	0.022	-	<0.010	-								
Orthophosphate(as P)	mg/L	n/v	n/v	<0.010	-	<0.010	-	<0.010	-	<0.010	-	<0.010	-	<0.010	-	<0.010	-								
pH	S.U.	6.5-8.5 <sup>E</sup>	n/v	8.12	-	8.21	-	7.93	-	8.02	-	8.06	-	8.09	-	8.17	-								
Saturation pH (at 20 C)	none	n/v	n/v	7.67	-	7.63	-	7.34	-	7.40	-	7.34	-	7.29	-	7.96	-								
Saturation pH (at 4 C)	none	n/v	n/v	7.92	-	7.88	-	7.59	-	7.65	-	7.59	-	7.53	-	8.21	-								
Sulfate	mg/L	500 <sup>h</sup> <sup>D</sup>	n/v	25	-	23	-	610 <sup>D</sup>	-	530 <sup>D</sup>	-	92	-	82	-	240	-								
Total Dissolved Solids	mg/L	500 <sup>D</sup>	n/v	234	-	145	-	1,180 <sup>D</sup>	-	995 <sup>D</sup>	-	398	-	375	-	475	-								
Total Dissolved Solids (Calculated)	mg/L	500 <sup>D</sup>	n/v	220	-	230	-	1,100 <sup>D</sup>	-	950 <sup>D</sup>	-	380	-	390	-	490	-								
Total Organic Carbon	mg/L	n/v	n/v	0.56	-	0.85	-	2.9	-	1.5	-	0.67	-	0.81	-	2.3	-								
Total Suspended Solids	mg/L	n/v	n/v	<10	-	<10	-	260	-	16	-	<10	-	<10	-	110	-								
Turbidity, Lab	NTU	5 <sup>D</sup> <sup>E</sup> <sub>j</sub>	n/v	1.6	-	3.0	-	210 <sup>D</sup>	-	3.7	-	0.5	-	0.6	-	41 <sup>D</sup>	-								
<b>BTEX and Petroleum Hydrocarbons</b>																									
Benzene	µg/L	1 <sup>C</sup>	0.5 <sup>G</sup> 5 <sup>H</sup>	<0.20	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-								
Toluene	µg/L	24 <sup>D</sup>	24 <sup>G</sup> 22 <sup>H</sup>	<0.20	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-								
Ethylbenzene	µg/L	2.4 <sup>D</sup>	2.4 <sup>G</sup> 2.4 <sup>H</sup>	<0.20	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-								
Xylene, m & p-	µg/L	300 <sup>1</sup> <sup>D</sup>	31 <sup>GH</sup>	<0.20	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-								
Xylene, o-	µg/L	300 <sup>1</sup> <sup>D</sup>	31 <sup>GH</sup>	<0.20	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-								
Xylenes, Total	µg/L	300 <sup>D</sup>	72 <sup>1</sup> <sup>G</sup> 300 <sup>1</sup> <sup>H</sup>	<0.20	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-								
PHC F1 (C6-C10 range)	µg/L	n/v	37 <sup>GH</sup>	<25	-	<25	-	<25	-	<25	-	<25	-	<25	-	<25	-								
PHC F1 (C6-C10 range) minus BTEX	µg/L	n/v	420 <sup>7</sup> <sup>GH</sup>	<25	-	<25	-	<25	-	<25	-	<25	-	<25	-	<25	-								
PHC F2 (>C10-C16 range)	µg/L	n/v	150 <sup>13</sup> <sup>GH</sup>	<100	-	<100	-	<100	-	<100	-	<100	-	<100	-	<100	-								
PHC F3 (>C16-C34 range)	µg/L	n/v	500 <sup>8</sup> <sup>GH</sup>	<200	-	<200	-	<200	-	<200	-	<200	-	<200	-	<200	-								
PHC F4 (>C34-C50 range)	µg/L	n/v	500 <sup>10</sup> <sup>GH</sup>	<200	-	<200	-	<200	-	<200	-	<200	-	<200	-	<200	-								
Chromatogram to baseline at C50	none	n/v	n/v	YES	-	YES	-	YES	-	YES	-	YES	-	YES	-	YES	-								

See notes on last page

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**Clarington Transformer Station**  
**Hydro One Networks Inc.**

Sample Location	Sample Date	Sample ID	Sampling Company	Laboratory	Laboratory Work Order	Laboratory Sample ID	Filtered	Sample Type	Units	ODWS	Ontario SCS	MW2-13-S				MW3-13-D				MW3-13-S				MW4-13-D			
												25-Apr-17	25-Apr-17	18-Oct-17	18-Oct-17	25-Apr-17	25-Apr-17	17-Oct-17	17-Oct-17	25-Apr-17	25-Apr-17	16-Oct-17	16-Oct-17	16-Oct-17	16-Oct-17		
												WG-160900764-20170425-KR-09	WG-160900764-20170425-KR-09A	WG-160900764-20171018-CF14	WG-160900764-20171018-CF14A	WG-160900764-20170425-KR-07	WG-160900764-20170425-KR-07A	WG-160900764-20171017-RD09	WG-160900764-20171017-RD09A	WG-160900764-20170425-KR-08	WG-160900764-20170425-KR-08A	WG-160900764-20171016-RD04	WG-160900764-20171016-RD04A	WG-160900764-20171016-RD03	WG-160900764-20171016-RD03A		
												STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	
												MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	
												B783695	B783695	B7N2183	B7N2183	B783695	B783695	B7N0947	B7N0947	B783695	B783695	B7M9492	B7M9492	B7M9492	B7M9492	B7M9492	
												EGX373	EGX378	FJF451	FJF452	EGX371	EGX376	FIY629	FIY630	EGX372	EGX377	FIQ046	FIQ047	FIQ044	FIQ045	FIQ045	
												Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC
<b>Metals</b>																											
Aluminum	µg/L	100 <sup>F</sup>	n/v	<5.0	-	<5	-	<5.0	-	11	-	<5.0	-	<5	-	<5.0	-	<5	-	<5.0	-	<5	-	7.6	-		
Antimony	µg/L	6 <sup>B</sup>	6 <sup>G</sup> 6 <sup>H</sup>	<0.50	-	<0.5	-	<0.50	-	<0.5	-	<0.50	-	<0.5	-	<0.50	-	<0.5	-	<0.50	-	<0.5	-	<0.5	-	<0.5	-
Arsenic	µg/L	25 <sup>B</sup>	25 <sup>G</sup> 25 <sup>H</sup>	<1.0	-	<1	-	<1.0	-	<1	-	<1.0	-	<1	-	<1.0	-	<1	-	<1.0	-	<1	-	<1	-	<1	-
Barium	µg/L	1,000 <sup>C</sup>	1,000 <sup>G</sup> 1,000 <sup>H</sup>	60	-	69	-	19	-	19	-	49	-	53	-	21	-	21	-	49	-	53	-	21	-	21	-
Beryllium	µg/L	n/v	4 <sup>G</sup> 4 <sup>H</sup>	<0.50	-	<0.5	-	<0.50	-	<0.5	-	<0.50	-	<0.5	-	<0.50	-	<0.5	-	<0.50	-	<0.5	-	<0.5	-	<0.5	-
Boron	µg/L	5,000 <sup>B</sup>	5,000 <sup>G</sup> 5,000 <sup>H</sup>	38	-	42	-	300	-	280	-	82	-	83	-	340	-	340	-	82	-	83	-	340	-	340	-
Cadmium	µg/L	5 <sup>C</sup>	2.1 <sup>G</sup> 2.1 <sup>H</sup>	<0.10	-	<0.1	-	<0.10	-	<0.1	-	<0.10	-	<0.1	-	<0.10	-	<0.1	-	<0.10	-	<0.1	-	<0.10	-	<0.10	-
Calcium	µg/L	n/v	n/v	30,000	-	29,000	-	110,000	-	89,000	-	55,000	-	61,000	-	24,000	-	24,000	-	55,000	-	61,000	-	24,000	-	24,000	-
Chromium	µg/L	50 <sup>C</sup>	50 <sup>G</sup> 50 <sup>H</sup>	<5.0	-	<5	-	<5.0	-	<5	-	<5.0	-	<5	-	<5	-	<5	-	<5.0	-	<5	-	<5	-	<5	-
Chromium (Hexavalent)	µg/L	n/v	25 <sup>G</sup> 25 <sup>H</sup>	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-
Cobalt	µg/L	n/v	3.8 <sup>G</sup> 3.8 <sup>H</sup>	<0.50	-	<0.5	-	<0.50	-	<0.5	-	<0.50	-	<0.5	-	<0.50	-	<0.5	-	<0.50	-	<0.5	-	<0.50	-	<0.50	-
Copper	µg/L	1,000 <sup>D</sup>	69 <sup>G</sup> 69 <sup>H</sup>	<1.0	-	<1	-	<1.0	-	<1	-	<1.0	-	<1	-	<1.0	-	<1	-	<1.0	-	<1	-	<1.0	-	<1.0	-
Iron	µg/L	300 <sup>D</sup>	n/v	<100	-	<100	-	<100	-	<100	-	<100	-	<100	-	<100	-	<100	-	<100	-	<100	-	<100	-	<100	-
Lead	µg/L	10 <sup>C</sup>	10 <sup>G</sup> 10 <sup>H</sup>	<0.50	-	<0.5	-	<0.50	-	<0.5	-	<0.50	-	<0.5	-	<0.50	-	<0.5	-	<0.50	-	<0.5	-	<0.50	-	<0.50	-
Magnesium	µg/L	n/v	n/v	27,000	-	26,000	-	41,000	-	36,000	-	37,000	-	37,000	-	17,000	-	17,000	-	37,000	-	37,000	-	17,000	-	17,000	-
Manganese	µg/L	50 <sup>D</sup>	n/v	21	-	58 <sup>D</sup>	-	13	-	6.8	-	2.2	-	10	-	<2	-	<2	-	2.2	-	10	-	<2	-	<2	-
Mercury	µg/L	1 <sup>C</sup>	0.1 <sup>G</sup> 0.29 <sup>H</sup>	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-
Molybdenum	µg/L	n/v	70 <sup>G</sup> 70 <sup>H</sup>	1.9	-	1.7	-	69	-	85 <sup>GH</sup>	-	7.5	-	6.9	-	110 <sup>GH</sup>	-	110 <sup>GH</sup>	-	7.5	-	6.9	-	110 <sup>GH</sup>	-	110 <sup>GH</sup>	-
Nickel	µg/L	n/v	100 <sup>G</sup> 100 <sup>H</sup>	<1.0	-	<1	-	1.4	-	1	-	<1.0	-	<1	-	<1	-	<1	-	<1.0	-	<1	-	<1	-	<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	2,100	-	2,200	-	5,500	-	5,000	-	5,100	-	5,300	-	4,000	-	4,000	-	5,100	-	5,300	-	4,000	-	4,000	-
Selenium	µg/L	10 <sup>C</sup>	10 <sup>G</sup> 10 <sup>H</sup>	<2.0	-	<2	-	<2.0	-	<2	-	<2.0	-	<2	-	<2	-	<2	-	<2.0	-	<2	-	<2	-	<2	-
Silicon	µg/L	n/v	n/v	7,100	-	8,000	-	4,000	-	3,900	-	5,400	-	6,400	-	3,400	-	3,400	-	5,400	-	6,400	-	3,400	-	3,400	-
Silver	µg/L	n/v	1.2 <sup>G</sup> 1.2 <sup>H</sup>	<0.10	-	<0.1	-	<0.10	-	<0.1	-	<0.10	-	<0.1	-	<0.10	-	<0.1	-	<0.10	-	<0.1	-	<0.10	-	<0.10	-
Sodium	µg/L	200,000 <sup>G</sup> 20,000 <sup>F</sup>	490,000 <sup>G</sup> 490,000 <sup>H</sup>	10,000	-	9,600	-	190,000 <sup>F</sup>	-	170,000 <sup>F</sup>	-	23,000 <sup>F</sup>	-	22,000 <sup>F</sup>	-	110,000 <sup>F</sup>	-	110,000 <sup>F</sup>	-	23,000 <sup>F</sup>	-	22,000 <sup>F</sup>	-	110,000 <sup>F</sup>	-	110,000 <sup>F</sup>	-
Strontium	µg/L	n/v	n/v	560	-	590	-	1,700	-	1,600	-	800	-	810	-	770	-	770	-	800	-	810	-	770	-	770	-
Thallium	µg/L	n/v	2 <sup>G</sup> 2 <sup>H</sup>	<0.050	-	<0.05	-	<0.050	-	<0.05	-	<0.050	-	<0.05	-	<0.05	-	<0.05	-	<0.050	-	<0.05	-	<0.050	-	<0.050	-
Titanium	µg/L	n/v	n/v	<5.0	-	<5	-	<5.0	-	<5	-	<5.0	-	<5	-	<5	-	<5	-	<5.0	-	<5	-	<5.0	-	<5.0	-
Uranium	µg/L	20 <sup>C</sup>	20 <sup>G</sup> 20 <sup>H</sup>	0.33	-	0.23	-	5.3	-	4.8	-	3.3	-	3.2	-	2	-	2	-	3.3	-	3.2	-	2	-	2	-
Vanadium	µg/L	n/v	6.2 <sup>G</sup> 6.2 <sup>H</sup>	<0.50	-	<0.5	-	<0.50	-	<0.5	-	0.64	-	0.69	-	<0.5	-	<0.5	-	0.64	-	0.69	-	<0.5	-	<0.5	-
Zinc	µg/L	5,000 <sup>D</sup>	890 <sup>G</sup> 890 <sup>H</sup>	<5.0	-	<5	-	18	-	<5	-	<5.0	-	<5	-	<5	-	<5	-	<5.0	-	<5	-	<5.0	-	<5.0	-
Zirconium	µg/L	n/v	n/v	<1.0	-	<1	-	<1.0	-	<1	-	<1.0	-	<1	-	<1	-	<1	-	<1.0	-	<1	-	<1.0	-	<1.0	-
<b>Polychlorinated Biphenyls</b>																											
Aroclor 1242	µg/L	n/v	s <sub>14</sub> <sup>GH</sup>	<0.05	-	<0.05	-	<0.05	-	<0.05	-	<0.05	-	<0.05	-	<0.05	-	<0.05	-	<0.05	-	<0.05	-	<0.05	-	<0.05	-
Aroclor 1248	µg/L	n/v	s <sub>14</sub> <sup>GH</sup>	<0.05	-	<0.05	-	<0.05	-	<0.05	-	<0.05	-	<0.05	-	<0.05	-	<0.05	-	<0.05	-	<0.05	-	<0.05	-	<0.05	-
Aroclor 1254	µg/L	n/v	s <sub>14</sub> <sup>GH</sup>	<0.05	-	<0.05	-	<0.05	-	<0.05	-	<0.05	-	<0.05	-	<0.05	-	<0.05	-	<0.05	-	<0.05	-	<0.05	-	<0.05	-
Aroclor 1260	µg/L	n/v	s <sub>14</sub> <sup>GH</sup>	<0.05	-	<0.05	-	<0.05	-	<0.05	-	<0.05	-	<0.05	-	<0.05	-	<0.05	-	<0.05	-	<0.05	-	<0.05	-	<0.05	-
Polychlorinated Biphenyls (PCBs)	µg/L	3 <sup>B</sup>	0.2 <sub>s14</sub> <sup>GH</sup>	<0.05	-	<0.05	-	<0.05	-	<0.05	-	<0.05	-	<0.05	-	<0.05	-	<0.05	-	<0.05	-	<0.05	-	<0.05	-	<0.05	-

See notes on last page

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

Sample Location	Sample Date	Sample ID	Sampling Company	Laboratory	Laboratory Work Order	Laboratory Sample ID	Filtered	Sample Type	Units	ODWS	Ontario SCS	MW2-13-S				MW3-13-D				MW3-13-S				MW4-13-D										
												25-Apr-17	25-Apr-17	18-Oct-17	18-Oct-17	25-Apr-17	25-Apr-17	17-Oct-17	17-Oct-17	25-Apr-17	25-Apr-17	16-Oct-17	16-Oct-17	16-Oct-17	16-Oct-17									
												WG-160900764-20170425-KR-09	WG-160900764-20170425-KR-09A	WG-160900764-20171018-CF14	WG-160900764-20171018-CF14A	WG-160900764-20170425-KR-07	WG-160900764-20170425-KR-07A	WG-160900764-20171017-RD09	WG-160900764-20171017-RD09A	WG-160900764-20170425-KR-08	WG-160900764-20170425-KR-08A	WG-160900764-20171016-RD04	WG-160900764-20171016-RD04A	WG-160900764-20171016-RD03	WG-160900764-20171016-RD03A									
												STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC
												MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX
												B783695	B783695	B7N2183	B7N2183	B783695	B783695	B7N0947	B7N0947	B783695	B783695	B7M9492	B7M9492	B7M9492	B7M9492	B7M9492	B7M9492	B7M9492	B7M9492	B7M9492	B7M9492	B7M9492	B7M9492	B7M9492
												EGX373	EGX378	FJF451	FJF452	EGX371	EGX376	FIY629	FIY630	EGX372	EGX377	FIQ046	FIQ047	FIQ044	FIQ045	FIQ044	FIQ045	FIQ044	FIQ045	FIQ044	FIQ045	FIQ044	FIQ045	FIQ045
												Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals
<b>Semi-Volatile Organic Compounds</b>																																		
<b>Phthalates</b>																																		
Bis(2-Ethylhexyl)phthalate (DEHP)	µg/L	n/v	10 <sup>0</sup> 10 <sup>H</sup>	<1	<1	<1	<1	5	<1	4	<1	<1	<1	<1	<1	<1	5	<1																
Diethyl Phthalate	µg/L	n/v	30 <sup>0</sup> 30 <sup>H</sup>	<0.1	<0.1	<0.1	<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 <sup>0</sup> 30 <sup>H</sup>	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1																
<b>Polycyclic Aromatic Hydrocarbons</b>																																		
Acenaphthene	µg/L	n/v	4.1 <sup>0</sup> 4.1 <sup>H</sup>	<0.2	<0.2	<0.2	<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 <sup>0</sup> 1 <sup>H</sup>	<0.2	<0.2	<0.2	<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 <sup>0</sup> 1 <sup>H</sup>	<0.05	<0.05	<0.05	<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 <sup>0</sup> 1 <sup>H</sup>	<0.05	<0.05	<0.05	<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 <sup>C</sup>	0.01 <sup>0</sup> 0.01 <sup>H</sup>	<0.01	<0.01	<0.01	<0.01	0.04 <sup>CGH</sup>	<0.01	0.03 <sup>CGH</sup>	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01																
Benzo(b)fluoranthene	µg/L	n/v	0.1 <sup>0</sup> 0.1 <sup>H</sup>	<0.05	<0.05	<0.05	<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 <sup>0</sup> 0.2 <sup>H</sup>	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	<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 <sup>0</sup> 0.1 <sup>H</sup>	<0.05	<0.05	<0.05	<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 <sup>0</sup> 0.1 <sup>H</sup>	<0.05	<0.05	<0.05	<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 <sup>0</sup> 0.2 <sup>H</sup>	<0.1	<0.1	<0.1	<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 <sup>0</sup> 0.41 <sup>H</sup>	<0.2	<0.2	<0.2	<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 <sup>0</sup> 120 <sup>H</sup>	<0.2	<0.2	<0.2	<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 <sup>0</sup> 0.2 <sup>H</sup>	<0.1	<0.1	<0.1	<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 <sup>0</sup> 3.2 <sup>H</sup>	<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	3 <sup>GH</sup>	<0.2	<0.2	<0.2	<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	3 <sup>GH</sup>	<0.2	<0.2	<0.2	<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 <sup>0</sup> 11 <sup>H</sup>	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2																
Phenanthrene	µg/L	n/v	1 <sup>0</sup> 1 <sup>H</sup>	<0.1	<0.1	<0.1	<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 <sup>0</sup> 4.1 <sup>H</sup>	<0.05	<0.05	<0.05	<0.05	0.08	<0.05	0.07	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05																
<b>Remaining Semi-Volatile Organic Compounds</b>																																		
Biphenyl, 1,1'- (Biphenyl)	µg/L	n/v	0.5 <sup>0</sup> 0.5 <sup>H</sup>	<0.1	<0.1	<0.1	<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 <sup>0</sup> 5 <sup>H</sup>	<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 <sup>0</sup> 120 <sup>H</sup>	<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 <sup>0</sup> 10 <sup>H</sup>	<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 <sup>0</sup> 8.9 <sup>H</sup>	<0.1	<0.1	<0.1	<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 <sup>0</sup> 0.5 <sup>H</sup>	<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 <sup>C</sup> 0.3 <sup>D</sup>	20 <sup>0</sup> 20 <sup>H</sup>	<0.1	<0.1	<0.1	<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 <sup>0</sup> 59 <sup>H</sup>	<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 <sup>0</sup> 10 <sup>H</sup>	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2																
Dinitrotoluene, 2,4-	µg/L	n/v	5 <sup>GH</sup>	<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 <sup>GH</sup>	<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 <sup>C</sup> 30 <sup>D</sup>	30 <sup>0</sup> 30 <sup>H</sup>	<0.1	<0.1	<0.1	<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 <sup>0</sup> 890 <sup>H</sup>	<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 <sup>0</sup> 70 <sup>H</sup>	<0.1	<0.1	<0.1	<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 <sup>0</sup> 8.9 <sup>H</sup>	<0.2	<0.2	<0.2	<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 <sup>C</sup> 2 <sup>D</sup>	2 <sup>0</sup> 2 <sup>H</sup>	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2																

See notes on last page

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

Sample Location	Sample Date	Sample ID	Sampling Company	Laboratory	Laboratory Work Order	Laboratory Sample ID	Filtered	Sample Type	Units	ODWS	Ontario SCS	MW2-13-S				MW3-13-D				MW3-13-S				MW4-13-D			
												25-Apr-17	25-Apr-17	18-Oct-17	18-Oct-17	25-Apr-17	25-Apr-17	17-Oct-17	17-Oct-17	25-Apr-17	25-Apr-17	16-Oct-17	16-Oct-17	16-Oct-17	16-Oct-17		
												WG-160900764-20170425-KR-09	WG-160900764-20170425-KR-09A	WG-160900764-20171018-CF14	WG-160900764-20171018-CF14A	WG-160900764-20170425-KR-07	WG-160900764-20170425-KR-07A	WG-160900764-20171017-RD09	WG-160900764-20171017-RD09A	WG-160900764-20170425-KR-08	WG-160900764-20170425-KR-08A	WG-160900764-20171016-RD04	WG-160900764-20171016-RD04A	WG-160900764-20171016-RD03	WG-160900764-20171016-RD03A		
												STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	
												MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	
												B783695	B783695	B7N2183	B7N2183	B783695	B783695	B7N0947	B7N0947	B783695	B783695	B7M9492	B7M9492	B7M9492	B7M9492		
												EGX373	EGX378	FJF451	FJF452	EGX371	EGX376	FIY629	FIY630	EGX372	EGX377	FIQ046	FIQ047	FIQ044	FIQ045		
												Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC		
<b>Volatile Organic Compounds</b>																											
Acetone	µg/L	n/v	2,700 <sup>C</sup> 2,700 <sup>H</sup>	<10	-	<10	-	<10	-	<10	-	<10	-	<10	-	<10	-	<10	-	<10	-	<10	-	<10	-	<10	-
Bromodichloromethane	µg/L	n/v	16 <sup>C</sup> 16 <sup>H</sup>	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-
Bromoform (Tribromomethane)	µg/L	n/v	5 <sup>C</sup> 25 <sup>H</sup>	<1.0	-	<1.0	-	<1.0	-	<1.0	-	<1.0	-	<1.0	-	<1.0	-	<1.0	-	<1.0	-	<1.0	-	<1.0	-	<1.0	-
Bromomethane (Methyl bromide)	µg/L	n/v	0.89 <sup>C</sup> 0.89 <sup>H</sup>	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-
Carbon Tetrachloride (Tetrachloromethane)	µg/L	2 <sup>C</sup>	0.2 <sup>C</sup> 0.79 <sup>H</sup>	<0.20	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-
Chlorobenzene (Monochlorobenzene)	µg/L	80 <sup>C</sup> 30 <sup>D</sup>	30 <sup>C</sup> 30 <sup>H</sup>	<0.20	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-
Chloroform (Trichloromethane)	µg/L	n/v	2 <sup>C</sup> 2.4 <sup>H</sup>	<0.20	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-
Dibromochloromethane	µg/L	n/v	25 <sup>C</sup> 25 <sup>H</sup>	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-
Dichlorobenzene, 1,2-	µg/L	200 <sup>C</sup> 3 <sup>D</sup>	3 <sup>C</sup> 3 <sup>H</sup>	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-
Dichlorobenzene, 1,3-	µg/L	n/v	59 <sup>C</sup> 59 <sup>H</sup>	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-
Dichlorobenzene, 1,4-	µg/L	5 <sup>C</sup> 1 <sup>D</sup>	0.5 <sup>C</sup> 1 <sup>H</sup>	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-
Dichlorodifluoromethane (Freon 12)	µg/L	n/v	590 <sup>C</sup> 590 <sup>H</sup>	<1.0	-	<1.0	-	<1.0	-	<1.0	-	<1.0	-	<1.0	-	<1.0	-	<1.0	-	<1.0	-	<1.0	-	<1.0	-	<1.0	-
Dichloroethane, 1,1-	µg/L	n/v	5 <sup>C</sup> 5 <sup>H</sup>	<0.20	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-
Dichloroethane, 1,2-	µg/L	5 <sup>B</sup>	0.5 <sup>C</sup> 1.6 <sup>H</sup>	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-
Dichloroethene, 1,1-	µg/L	14 <sup>C</sup>	0.5 <sup>C</sup> 1.6 <sup>H</sup>	<0.20	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-
Dichloroethene, cis-1,2-	µg/L	n/v	1.6 <sup>C</sup> 1.6 <sup>H</sup>	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-
Dichloroethene, trans-1,2-	µg/L	n/v	1.6 <sup>C</sup> 1.6 <sup>H</sup>	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-
Dichloropropane, 1,2-	µg/L	n/v	0.58 <sup>C</sup> 5 <sup>H</sup>	<0.20	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-
Dichloropropene, 1,3- (sum of isomers cis + trans)	µg/L	n/v	0.5 <sup>C</sup> 1.1 <sup>H</sup>	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-
Dichloropropene, cis-1,3-	µg/L	n/v	1.1 <sup>C</sup> 1.1 <sup>H</sup>	<0.30	-	<0.30	-	<0.30	-	<0.30	-	<0.30	-	<0.30	-	<0.30	-	<0.30	-	<0.30	-	<0.30	-	<0.30	-	<0.30	-
Dichloropropene, trans-1,3-	µg/L	n/v	1.1 <sup>C</sup> 1.1 <sup>H</sup>	<0.40	-	<0.40	-	<0.40	-	<0.40	-	<0.40	-	<0.40	-	<0.40	-	<0.40	-	<0.40	-	<0.40	-	<0.40	-	<0.40	-
Ethylene Dibromide (Dibromoethane, 1,2-)	µg/L	n/v	0.2 <sup>C</sup> 0.2 <sup>H</sup>	<0.20	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-
Hexane (n-Hexane)	µg/L	n/v	5 <sup>C</sup> 51 <sup>H</sup>	<1.0	-	<1.0	-	<1.0	-	<1.0	-	<1.0	-	<1.0	-	<1.0	-	<1.0	-	<1.0	-	<1.0	-	<1.0	-	<1.0	-
Methyl Ethyl Ketone (MEK) (2-Butanone)	µg/L	n/v	1,800 <sup>C</sup> 1,800 <sup>H</sup>	<10	-	<10	-	<10	-	<10	-	<10	-	<10	-	<10	-	<10	-	<10	-	<10	-	<10	-	<10	-
Methyl Isobutyl Ketone (MIBK)	µg/L	n/v	640 <sup>C</sup> 640 <sup>H</sup>	<5.0	-	<5.0	-	<5.0	-	<5.0	-	<5.0	-	<5.0	-	<5.0	-	<5.0	-	<5.0	-	<5.0	-	<5.0	-	<5.0	-
Methyl tert-butyl ether (MTBE)	µg/L	n/v	15 <sup>C</sup> 15 <sup>H</sup>	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-
Methylene Chloride (Dichloromethane)	µg/L	50 <sup>C</sup>	26 <sup>C</sup> 50 <sup>H</sup>	<2.0	-	<2.0	-	<2.0	-	<2.0	-	<2.0	-	<2.0	-	<2.0	-	<2.0	-	<2.0	-	<2.0	-	<2.0	-	<2.0	-
Styrene	µg/L	n/v	5.4 <sup>C</sup> 5.4 <sup>H</sup>	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-
Tetrachloroethane, 1,1,1,2-	µg/L	n/v	1.1 <sup>C</sup> 1.1 <sup>H</sup>	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-
Tetrachloroethane, 1,1,2,2-	µg/L	n/v	0.5 <sup>C</sup> 1 <sup>H</sup>	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-
Tetrachloroethene (PCE)	µg/L	30 <sup>C</sup>	0.5 <sup>C</sup> 1.6 <sup>H</sup>	<0.20	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-
Trichloroethane, 1,1,1-	µg/L	n/v	23 <sup>C</sup> 200 <sup>H</sup>	<0.20	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-
Trichloroethane, 1,1,2-	µg/L	n/v	0.5 <sup>C</sup> 4.7 <sup>H</sup>	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-
Trichloroethene (TCE)	µg/L	5 <sup>C</sup>	0.5 <sup>C</sup> 1.6 <sup>H</sup>	<0.20	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-
Trichlorofluoromethane (Freon 11)	µg/L	n/v	150 <sup>C</sup> 150 <sup>H</sup>	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-
Trihalomethanes	µg/L	100 <sup>C</sup>	n/v	-	-	<1.0	-	-	-	<1.0	-	-	-	<1.0	-	-	-	<1.0	-	-	-	<1.0	-	-	<1.0	-	
Vinyl Chloride	µg/L	1 <sup>C</sup>	0.5 <sup>C</sup> 0.5 <sup>H</sup>	<0.20	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-

See notes on last page

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

Sample Location	Sample Date	Sample ID	Sampling Company	Laboratory	Laboratory Work Order	Laboratory Sample ID	Filtered	Sample Type	Units	ODWS	Ontario SCS	MW4-13-S				MW4-15D		MW5-14-D				MW5-14-I																	
												25-Apr-17	25-Apr-17	16-Oct-17	16-Oct-17	24-Apr-17	24-Apr-17	27-Apr-17	27-Apr-17	18-Oct-17	18-Oct-17	24-Apr-17	24-Apr-17	17-Oct-17	17-Oct-17														
												WG-160900764-20170425-RD-06	WG-160900764-20170425-RD-06A	WG-160900764-20171016-RD02	WG-160900764-20171016-RD02A	WG-160900764-20170424-KR-05	WG-160900764-20170424-KR-05A	WG-160900764-20170427-KR-16	WG-160900764-20170427-KR-16A	WG-160900764-20171018-CF11	WG-160900764-20171018-CF11A	WG-160900764-20170424-KR-01	WG-160900764-20170424-KR-01A	WG-160900764-20171017-CF10	WG-160900764-20171017-CF10A														
												STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	
												MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX
												B783695	B783695	B7M9492	B7M9492	B782020	B782020	B785281	B785281	B7N2183	B7N2183	B782020	B782020	B7N0947	B7N0947	B782020	B782020	B7N0947	B7N0947	B782020	B782020	B7N0947	B7N0947	B782020	B782020	B7N0947	B7N0947	B7N0947	B7N0947
												EGX370	EGX375	FIQ042	FIQ043	EGP554	EGP555	EHF910	EHF911	FJF447	FJF448	EGP546	EGP547	FIY631	FIY632	EGP546	EGP547	FIY631	FIY632	EGP546	EGP547	FIY631	FIY632	EGP546	EGP547	FIY631	FIY632	EGP546	EGP547
												Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC
<b>General Chemistry</b>																																							
Acidity	mg/L	n/v	n/v	48	-	52	-	<10	-	<10	-	<5.0	-	<10	-	<5.0	-																						
Alkalinity, Bicarbonate (as CaCO3)	mg/L	n/v	n/v	250	-	350	-	380	-	180	-	150	-	91	-	88	-																						
Alkalinity, Carbonate (as CaCO3)	mg/L	n/v	n/v	1.3	-	1.1	-	6.1	-	5.6	-	4.8	-	1.9	-	2.9	-																						
Alkalinity, Total (as CaCO3)	mg/L	30-500 <sup>E</sup>	n/v	260	-	350	-	390	-	180	-	160	-	93	-	91	-																						
Ammonia (as N)	mg/L	n/v	n/v	<0.050	-	<0.050	-	<0.050	-	<0.050	-	<0.050	-	<0.050	-	<0.050	-																						
Anion Sum	meq/L	n/v	n/v	8.81	-	10.5	-	9.42	-	4.29	-	3.72	-	2.42	-	2.37	-																						
Cation Sum	meq/L	n/v	n/v	8.75	-	10.7	-	3.94	-	2.53	-	2.45	-	2.12	-	2.25	-																						
Chloride	mg/L	250 <sup>D</sup>	790 <sup>D</sup> 790 <sup>H</sup>	48	-	30	-	3.4	-	2.1	-	1.7	-	2.7	-	2.3	-																						
Cyanide (Free)	µg/L	200 <sup>C</sup>	52 <sup>D</sup> 52 <sup>H</sup>	<1	-	<1	-	<1	-	<1	-	<1	-	<1	-	<1	-																						
Dissolved Organic Carbon (DOC)	mg/L	5 <sup>D</sup>	n/v	2.0	-	2.0	-	1.8	-	1.2	-	1.1	-	0.96	-	0.79	-																						
Electrical Conductivity, Lab	µmhos/cm	n/v	n/a <sup>GH</sup>	860	-	870	-	400	-	250	-	230	-	230	-	220	-																						
Fluoride	mg/L	1.5 <sup>b</sup> <sup>C</sup>	n/v	<0.10	-	<0.10	-	0.93	-	1.3	-	1.3	-	1.4	-	1.5	-																						
Hardness (as CaCO3)	mg/L	80-100 <sup>E</sup>	n/v	360 <sup>E</sup>	-	490 <sup>E</sup>	-	50 <sup>E</sup>	-	23 <sup>E</sup>	-	21 <sup>E</sup>	-	16 <sup>E</sup>	-	16 <sup>E</sup>	-																						
Ion Balance	%	n/v	n/v	0.310	-	0.790	-	41.1	-	25.8	-	20.6	-	NC	-	NC	-																						
Langelier Index (at 20 C)	none	n/v	n/v	0.770	-	0.800	-	0.457	-	0.117	-	0.0270	-	-0.420	-	-0.216	-																						
Langelier Index (at 4 C)	none	n/v	n/v	0.523	-	0.553	-	0.208	-	-0.133	-	-0.222	-	-0.671	-	-0.467	-																						
Nitrate (as N)	mg/L	10.0 <sup>a</sup> <sup>C</sup>	n/v	<0.10	-	0.79	-	0.15	-	<0.10	-	<0.10	-	<0.10	-	<0.10	-																						
Nitrate + Nitrite (as N)	mg/L	10.0 <sup>a</sup> <sup>C</sup>	n/v	<0.10	-	0.79	-	0.15	-	<0.10	-	<0.10	-	<0.10	-	<0.10	-																						
Nitrite (as N)	mg/L	1.0 <sup>a</sup> <sup>C</sup>	n/v	<0.010	-	<0.010	-	<0.010	-	<0.010	-	<0.010	-	<0.010	-	<0.010	-																						
Orthophosphate(as P)	mg/L	n/v	n/v	<0.010	-	0.011	-	0.024	-	0.011	-	0.011	-	0.015	-	0.012	-																						
pH	S.U.	6.5-8.5 <sup>E</sup>	n/v	7.75	-	7.52	-	8.23	-	8.53 <sup>E</sup>	-	8.53 <sup>E</sup>	-	8.35	-	8.55 <sup>E</sup>	-																						
Saturation pH (at 20 C)	none	n/v	n/v	6.98	-	6.72	-	7.78	-	8.41	-	8.50	-	8.77	-	8.77	-																						
Saturation pH (at 4 C)	none	n/v	n/v	7.23	-	6.97	-	8.02	-	8.66	-	8.75	-	9.02	-	9.02	-																						
Sulfate	mg/L	500 <sup>D</sup>	n/v	110	-	130	-	71	-	25	-	22	-	19	-	20	-																						
Total Dissolved Solids	mg/L	500 <sup>D</sup>	n/v	558 <sup>D</sup>	-	585 <sup>D</sup>	-	332	-	264	-	255	-	124	-	130	-																						
Total Dissolved Solids (Calculated)	mg/L	500 <sup>D</sup>	n/v	490	-	590 <sup>D</sup>	-	400	-	200	-	180	-	130	-	130	-																						
Total Organic Carbon	mg/L	n/v	n/v	2.0	-	2.4	-	4.5	-	2.9	-	1.9	-	0.79	-	0.92	-																						
Total Suspended Solids	mg/L	n/v	n/v	<10	-	15	-	1,700	-	74	-	90	-	<10	-	<10	-																						
Turbidity, Lab	NTU	5 <sup>D</sup> <sup>E</sup> <sub>j</sub>	n/v	1.5	-	2.8	-	1,500 <sup>D</sup>	-	260 <sup>D</sup>	-	210 <sup>D</sup>	-	1.0	-	1.9	-																						
<b>BTEX and Petroleum Hydrocarbons</b>																																							
Benzene	µg/L	1 <sup>C</sup>	0.5 <sup>G</sup> 5 <sup>H</sup>	<0.20	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-																						
Toluene	µg/L	24 <sup>D</sup>	24 <sup>G</sup> 22 <sup>H</sup>	<0.20	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-																						
Ethylbenzene	µg/L	2.4 <sup>D</sup>	2.4 <sup>G</sup> 2.4 <sup>H</sup>	<0.20	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-																						
Xylene, m & p-	µg/L	300 <sup>D</sup> <sub>11</sub>	31 <sup>GH</sup>	<0.20	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-																						
Xylene, o-	µg/L	300 <sup>D</sup> <sub>11</sub>	31 <sup>GH</sup>	<0.20	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-																						
Xylenes, Total	µg/L	300 <sup>D</sup>	72 <sup>G</sup> 300 <sup>H</sup> <sub>11</sub>	<0.20	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-																						
PHC F1 (C6-C10 range)	µg/L	n/v	37 <sup>GH</sup>	<25	-	<25	-	<25	-	<25	-	<25	-	<25	-	<25	-																						
PHC F1 (C6-C10 range) minus BTEX	µg/L	n/v	420 <sup>GH</sup> <sub>17</sub>	<25	-	<25	-	<25	-	<25	-	<25	-	<25	-	<25	-																						
PHC F2 (>C10-C16 range)	µg/L	n/v	150 <sup>GH</sup> <sub>13</sub>	<100	-	<100	-	<100	-	<100	-	<100	-	<100	-	<100	-																						
PHC F3 (>C16-C34 range)	µg/L	n/v	500 <sup>GH</sup> <sub>8</sub>	<200	-	<200	-	<200	-	<200	-	<200	-	<200	-	<200	-																						
PHC F4 (>C34-C50 range)	µg/L	n/v	500 <sup>GH</sup> <sub>10</sub>	<200	-	<200	-	<200	-	<200	-	<200	-	<200	-	<200	-																						
Chromatogram to baseline at C50	none	n/v	n/v	YES	-	YES	-	YES	-	YES	-	YES	-	YES	-	YES	-																						

See notes on last page



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

Sample Location	Sample Date	Sample ID	Sampling Company	Laboratory	Laboratory Work Order	Laboratory Sample ID	Filtered	Sample Type	Units	ODWS	Ontario SCS	MW4-13-S				MW4-15D		MW5-14-D				MW5-14-I													
												25-Apr-17	25-Apr-17	16-Oct-17	16-Oct-17	24-Apr-17	24-Apr-17	27-Apr-17	27-Apr-17	18-Oct-17	18-Oct-17	24-Apr-17	24-Apr-17	17-Oct-17	17-Oct-17										
												WG-160900764-20170425-RD-06	WG-160900764-20170425-RD-06A	WG-160900764-20171016-RD02	WG-160900764-20171016-RD02A	WG-160900764-20170424-KR-05	WG-160900764-20170424-KR-05A	WG-160900764-20170427-KR-16	WG-160900764-20170427-KR-16A	WG-160900764-20171018-CF11	WG-160900764-20171018-CF11A	WG-160900764-20170424-KR-01	WG-160900764-20170424-KR-01A	WG-160900764-20171017-CF10	WG-160900764-20171017-CF10A										
												STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC
												MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX
												B783695	B783695	B7M9492	B7M9492	B782020	B782020	B785281	B785281	B7N2183	B7N2183	B782020	B782020	B7N0947	B7N0947										
												EGX370	EGX375	FIQ042	FIQ043	EGP554	EGP555	EHF910	EHF911	FJF447	FJF448	EGP546	EGP547	FIY631	FIY632										
												Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC										
<b>Metals</b>																																			
Aluminum	µg/L	100 <sup>F</sup>	n/v	6.4	-	<5	-	22	-	28	-	33	-	73	-	81	-																		
Antimony	µg/L	6 <sup>B</sup>	6 <sup>G</sup> 6 <sup>H</sup>	<0.50	-	<0.5	-	0.62	-	<0.50	-	<0.5	-	<0.50	-	<0.5	-																		
Arsenic	µg/L	25 <sup>B</sup>	25 <sup>G</sup> 25 <sup>H</sup>	<1.0	-	<1	-	2.2	-	1.6	-	1.8	-	2.6	-	2.8	-																		
Barium	µg/L	1,000 <sup>C</sup>	1,000 <sup>G</sup> 1,000 <sup>H</sup>	63	-	110	-	35	-	5.7	-	5.2	-	7.0	-	7.4	-																		
Beryllium	µg/L	n/v	4 <sup>G</sup> 4 <sup>H</sup>	<0.50	-	<0.5	-	<0.50	-	<0.50	-	<0.5	-	<0.50	-	<0.5	-																		
Boron	µg/L	5,000 <sup>B</sup>	5,000 <sup>G</sup> 5,000 <sup>H</sup>	48	-	110	-	230	-	220	-	230	-	220	-	230	-																		
Cadmium	µg/L	5 <sup>C</sup>	2.1 <sup>G</sup> 2.1 <sup>H</sup>	<0.10	-	<0.1	-	<0.10	-	<0.10	-	<0.1	-	<0.10	-	<0.1	-																		
Calcium	µg/L	n/v	n/v	120,000	-	170,000	-	12,000	-	5,400	-	5,100	-	4,200	-	4,300	-																		
Chromium	µg/L	50 <sup>C</sup>	50 <sup>G</sup> 50 <sup>H</sup>	<5.0	-	<5	-	<5.0	-	<5.0	-	<5	-	<5.0	-	<5	-																		
Chromium (Hexavalent)	µg/L	n/v	25 <sup>G</sup> 25 <sup>H</sup>	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-																		
Cobalt	µg/L	n/v	3.8 <sup>G</sup> 3.8 <sup>H</sup>	<0.50	-	<0.5	-	<0.50	-	<0.50	-	<0.5	-	<0.50	-	<0.5	-																		
Copper	µg/L	1,000 <sup>D</sup>	69 <sup>G</sup> 69 <sup>H</sup>	<1.0	-	1.6	-	<1.0	-	<1.0	-	<1	-	<1.0	-	<1	-																		
Iron	µg/L	300 <sup>D</sup>	n/v	<100	-	<100	-	<100	-	<100	-	<100	-	<100	-	<100	-																		
Lead	µg/L	10 <sup>C</sup>	10 <sup>G</sup> 10 <sup>H</sup>	<0.50	-	<0.5	-	<0.50	-	<0.50	-	<0.5	-	<0.50	-	<0.5	-																		
Magnesium	µg/L	n/v	n/v	13,000	-	17,000	-	5,100	-	2,200	-	2,100	-	1,200	-	1,400	-																		
Manganese	µg/L	50 <sup>D</sup>	n/v	2.5	-	<2	-	5.4	-	2.4	-	3.5	-	<2.0	-	<2	-																		
Mercury	µg/L	1 <sup>C</sup>	0.1 <sup>G</sup> 0.29 <sup>H</sup>	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-																		
Molybdenum	µg/L	n/v	70 <sup>G</sup> 70 <sup>H</sup>	<0.50	-	<0.5	-	56	-	5.1	-	4.4	-	9.0	-	7.6	-																		
Nickel	µg/L	n/v	100 <sup>G</sup> 100 <sup>H</sup>	<1.0	-	<1	-	<1.0	-	<1.0	-	<1	-	<1.0	-	<1	-																		
Phosphorus	µg/L	n/v	n/v	<100	-	<100	-	<100	-	<100	-	<100	-	<100	-	<100	-																		
Potassium	µg/L	n/v	n/v	930	-	1,600	-	1,100	-	490	-	460	-	540	-	610	-																		
Selenium	µg/L	10 <sup>C</sup>	10 <sup>G</sup> 10 <sup>H</sup>	<2.0	-	<2	-	<2.0	-	<2.0	-	<2	-	<2.0	-	<2	-																		
Silicon	µg/L	n/v	n/v	3,300	-	6,200	-	3,300	-	3,400	-	3,500	-	2,700	-	3,100	-																		
Silver	µg/L	n/v	1.2 <sup>G</sup> 1.2 <sup>H</sup>	<0.10	-	<0.1	-	<0.10	-	<0.10	-	<0.1	-	<0.10	-	<0.1	-																		
Sodium	µg/L	200,000 <sup>G</sup> 20,000 <sup>F</sup>	490,000 <sup>G</sup> 490,000 <sup>H</sup>	<b>34,000<sup>F</sup></b>	-	<b>22,000<sup>F</sup></b>	-	<b>67,000<sup>F</sup></b>	-	<b>47,000<sup>F</sup></b>	-	<b>46,000<sup>F</sup></b>	-	<b>41,000<sup>F</sup></b>	-	<b>44,000<sup>F</sup></b>	-																		
Strontium	µg/L	n/v	n/v	370	-	550	-	350	-	110	-	110	-	81	-	88	-																		
Thallium	µg/L	n/v	2 <sup>G</sup> 2 <sup>H</sup>	<0.050	-	<0.05	-	<0.050	-	<0.050	-	<0.05	-	<0.050	-	<0.05	-																		
Titanium	µg/L	n/v	n/v	<5.0	-	<5	-	<5.0	-	<5.0	-	<5	-	<5.0	-	<5	-																		
Uranium	µg/L	20 <sup>C</sup>	20 <sup>G</sup> 20 <sup>H</sup>	0.79	-	0.88	-	2.0	-	0.44	-	0.35	-	0.89	-	0.71	-																		
Vanadium	µg/L	n/v	6.2 <sup>G</sup> 6.2 <sup>H</sup>	<0.50	-	<0.5	-	2.6	-	<0.50	-	<0.5	-	1.7	-	1.2	-																		
Zinc	µg/L	5,000 <sup>D</sup>	890 <sup>G</sup> 890 <sup>H</sup>	<5.0	-	<5	-	<5.0	-	<5.0	-	<5	-	<5.0	-	<5	-																		
Zirconium	µg/L	n/v	n/v	<1.0	-	<1	-	<1.0	-	<1.0	-	<1	-	<1.0	-	<1	-																		
<b>Polychlorinated Biphenyls</b>																																			
Aroclor 1242	µg/L	n/v	<sup>GH</sup> <sub>14</sub>	<0.05	-	<0.05	-	<0.5	-	<0.05	-	<0.05	-	<0.05	-	<0.05	-																		
Aroclor 1248	µg/L	n/v	<sup>GH</sup> <sub>14</sub>	<0.05	-	<0.05	-	<0.5	-	<0.05	-	<0.05	-	<0.05	-	<0.05	-																		
Aroclor 1254	µg/L	n/v	<sup>GH</sup> <sub>14</sub>	<0.05	-	<0.05	-	<0.5	-	<0.05	-	<0.05	-	<0.05	-	<0.05	-																		
Aroclor 1260	µg/L	n/v	<sup>GH</sup> <sub>14</sub>	<0.05	-	<0.05	-	<0.5	-	<0.05	-	<0.05	-	<0.05	-	<0.05	-																		
Polychlorinated Biphenyls (PCBs)	µg/L	3 <sup>B</sup>	0.2 <sup>GH</sup> <sub>14</sub>	<0.05	-	<0.05	-	<b>&lt;0.5</b>	-	<0.05	-	<0.05	-	<0.05	-	<0.05	-																		

See notes on last page

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

Sample Location	Sample Date	Sample ID	Sampling Company	Laboratory	Laboratory Work Order	Laboratory Sample ID	Filtered	Sample Type	Units	ODWS	Ontario SCS	MW4-13-S				MW4-15D		MW5-14-D				MW5-14-I															
												25-Apr-17	25-Apr-17	16-Oct-17	16-Oct-17	24-Apr-17	24-Apr-17	27-Apr-17	27-Apr-17	18-Oct-17	18-Oct-17	24-Apr-17	24-Apr-17	17-Oct-17	17-Oct-17												
												WG-160900764-20170425-RD-06	WG-160900764-20170425-RD-06A	WG-160900764-20171016-RD02	WG-160900764-20171016-RD02A	WG-160900764-20170424-KR-05	WG-160900764-20170424-KR-05A	WG-160900764-20170427-KR-16	WG-160900764-20170427-KR-16A	WG-160900764-20171018-CF11	WG-160900764-20171018-CF11A	WG-160900764-20170424-KR-01	WG-160900764-20170424-KR-01A	WG-160900764-20171017-CF10	WG-160900764-20171017-CF10A												
												STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC		
												MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX		
												B783695	B783695	B7M9492	B7M9492	B782020	B782020	B785281	B785281	B7N2183	B7N2183	B782020	B782020	B7N0947	B7N0947	B782020	B782020	B7N0947	B7N0947	B782020	B782020	B7N0947	B7N0947	B782020	B782020		
												EGX370	EGX375	FIQ042	FIQ043	EGP554	EGP555	EHF910	EHF911	FJF447	FJF448	EGP546	EGP547	FIY631	FIY632	EGP546	EGP547	FIY631	FIY632	EGP546	EGP547	FIY631	FIY632	EGP546	EGP547	FIY631	FIY632
												Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC
<b>Semi-Volatile Organic Compounds</b>																																					
<b>Phthalates</b>																																					
Bis(2-Ethylhexyl)phthalate (DEHP)	µg/L	n/v	10 <sup>0</sup> 10 <sup>H</sup>	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1									
Diethyl Phthalate	µg/L	n/v	30 <sup>0</sup> 30 <sup>H</sup>	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<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 <sup>0</sup> 30 <sup>H</sup>	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1									
<b>Polycyclic Aromatic Hydrocarbons</b>																																					
Acenaphthene	µg/L	n/v	4.1 <sup>0</sup> 4.1 <sup>H</sup>	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<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 <sup>0</sup> 1 <sup>H</sup>	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<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 <sup>0</sup> 1 <sup>H</sup>	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<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 <sup>0</sup> 1 <sup>H</sup>	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<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 <sup>C</sup>	0.01 <sup>0</sup> 0.01 <sup>H</sup>	<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	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01									
Benzo(b)fluoranthene	µg/L	n/v	0.1 <sup>0</sup> 0.1 <sup>H</sup>	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<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 <sup>0</sup> 0.2 <sup>H</sup>	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<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 <sup>0</sup> 0.1 <sup>H</sup>	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<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 <sup>0</sup> 0.1 <sup>H</sup>	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<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 <sup>0</sup> 0.2 <sup>H</sup>	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<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 <sup>0</sup> 0.41 <sup>H</sup>	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<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 <sup>0</sup> 120 <sup>H</sup>	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<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 <sup>0</sup> 0.2 <sup>H</sup>	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<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 <sup>0</sup> 3.2 <sup>H</sup>	<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	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28									
Methylnaphthalene, 1-	µg/L	n/v	3.2 <sup>0</sup> 3.2 <sup>H</sup>	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<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	3.2 <sup>0</sup> 3.2 <sup>H</sup>	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<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 <sup>0</sup> 11 <sup>H</sup>	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2									
Phenanthrene	µg/L	n/v	1 <sup>0</sup> 1 <sup>H</sup>	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<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 <sup>0</sup> 4.1 <sup>H</sup>	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05									
<b>Remaining Semi-Volatile Organic Compounds</b>																																					
Biphenyl, 1,1'- (Biphenyl)	µg/L	n/v	0.5 <sup>0</sup> 0.5 <sup>H</sup>	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<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 <sup>0</sup> 5 <sup>H</sup>	<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	<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 <sup>0</sup> 120 <sup>H</sup>	<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	<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 <sup>0</sup> 10 <sup>H</sup>	<1	<1	<1	<1	<1	<1	<1	<1	<1	<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 <sup>0</sup> 8.9 <sup>H</sup>	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<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 <sup>0</sup> 0.5 <sup>H</sup>	<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	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5									
Dichlorophenol, 2,4-	µg/L	900 <sup>C</sup> 0.3 <sup>D</sup>	20 <sup>0</sup> 20 <sup>H</sup>	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<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 <sup>0</sup> 59 <sup>H</sup>	<0.5	<0.5	<0.5	<0.																														

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

Sample Location	Sample Date	Sample ID	Sampling Company	Laboratory	Laboratory Work Order	Laboratory Sample ID	Filtered	Sample Type	Units	ODWS	Ontario SCS	MW4-13-S				MW4-15D		MW5-14-D				MW5-14-I														
												25-Apr-17	25-Apr-17	16-Oct-17	16-Oct-17	24-Apr-17	24-Apr-17	27-Apr-17	27-Apr-17	18-Oct-17	18-Oct-17	24-Apr-17	24-Apr-17	17-Oct-17	17-Oct-17											
												WG-160900764-20170425-RD-06	WG-160900764-20170425-RD-06A	WG-160900764-20171016-RD02	WG-160900764-20171016-RD02A	WG-160900764-20170424-KR-05	WG-160900764-20170424-KR-05A	WG-160900764-20170427-KR-16	WG-160900764-20170427-KR-16A	WG-160900764-20171018-CF11	WG-160900764-20171018-CF11A	WG-160900764-20170424-KR-01	WG-160900764-20170424-KR-01A	WG-160900764-20171017-CF10	WG-160900764-20171017-CF10A											
												STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC
												MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX
												B783695	B783695	B7M9492	B7M9492	B782020	B782020	B785281	B785281	B7N2183	B7N2183	B782020	B782020	B7N0947	B7N0947											
												EGX370	EGX375	FIQ042	FIQ043	EGP554	EGP555	EHF910	EHF911	FJF447	FJF448	EGP546	EGP547	FIY631	FIY632											
												Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC											
<b>Volatile Organic Compounds</b>																																				
Acetone	µg/L	n/v	2,700 <sup>C</sup> 2,700 <sup>H</sup>	<10	-	<10	-	<10	-	<10	-	<10	-	<10	-	<10	-																			
Bromodichloromethane	µg/L	n/v	16 <sup>C</sup> 16 <sup>H</sup>	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-																			
Bromoform (Tribromomethane)	µg/L	n/v	5 <sup>C</sup> 25 <sup>H</sup>	<1.0	-	<1.0	-	<1.0	-	<1.0	-	<1.0	-	<1.0	-	<1.0	-																			
Bromomethane (Methyl bromide)	µg/L	n/v	0.89 <sup>C</sup> 0.89 <sup>H</sup>	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-																			
Carbon Tetrachloride (Tetrachloromethane)	µg/L	2 <sup>C</sup>	0.2 <sup>C</sup> 0.79 <sup>H</sup>	<0.20	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-																			
Chlorobenzene (Monochlorobenzene)	µg/L	80 <sup>C</sup> 30 <sup>D</sup>	30 <sup>C</sup> 30 <sup>H</sup>	<0.20	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-																			
Chloroform (Trichloromethane)	µg/L	n/v	2 <sup>C</sup> 2.4 <sup>H</sup>	<0.20	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-																			
Dibromochloromethane	µg/L	n/v	25 <sup>C</sup> 25 <sup>H</sup>	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-																			
Dichlorobenzene, 1,2-	µg/L	200 <sup>C</sup> 3 <sup>D</sup>	3 <sup>C</sup> 3 <sup>H</sup>	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-																			
Dichlorobenzene, 1,3-	µg/L	n/v	59 <sup>C</sup> 59 <sup>H</sup>	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-																			
Dichlorobenzene, 1,4-	µg/L	5 <sup>C</sup> 1 <sup>D</sup>	0.5 <sup>C</sup> 1 <sup>H</sup>	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-																			
Dichlorodifluoromethane (Freon 12)	µg/L	n/v	590 <sup>C</sup> 590 <sup>H</sup>	<1.0	-	<1.0	-	<1.0	-	<1.0	-	<1.0	-	<1.0	-	<1.0	-																			
Dichloroethane, 1,1-	µg/L	n/v	5 <sup>C</sup> 5 <sup>H</sup>	<0.20	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-																			
Dichloroethane, 1,2-	µg/L	5 <sup>B</sup>	0.5 <sup>C</sup> 1.6 <sup>H</sup>	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-																			
Dichloroethene, 1,1-	µg/L	14 <sup>C</sup>	0.5 <sup>C</sup> 1.6 <sup>H</sup>	<0.20	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-																			
Dichloroethene, cis-1,2-	µg/L	n/v	1.6 <sup>C</sup> 1.6 <sup>H</sup>	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-																			
Dichloroethene, trans-1,2-	µg/L	n/v	1.6 <sup>C</sup> 1.6 <sup>H</sup>	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-																			
Dichloropropane, 1,2-	µg/L	n/v	0.58 <sup>C</sup> 5 <sup>H</sup>	<0.20	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-																			
Dichloropropene, 1,3- (sum of isomers cis + trans)	µg/L	n/v	0.5 <sup>C</sup> 11 <sup>H</sup>	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-																			
Dichloropropene, cis-1,3-	µg/L	n/v	11 <sup>C</sup> 11 <sup>H</sup>	<0.30	-	<0.30	-	<0.30	-	<0.30	-	<0.30	-	<0.30	-	<0.30	-																			
Dichloropropene, trans-1,3-	µg/L	n/v	11 <sup>C</sup> 11 <sup>H</sup>	<0.40	-	<0.40	-	<0.40	-	<0.40	-	<0.40	-	<0.40	-	<0.40	-																			
Ethylene Dibromide (Dibromoethane, 1,2-)	µg/L	n/v	0.2 <sup>C</sup> 0.2 <sup>H</sup>	<0.20	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-																			
Hexane (n-Hexane)	µg/L	n/v	5 <sup>C</sup> 51 <sup>H</sup>	<1.0	-	<1.0	-	<1.0	-	<1.0	-	<1.0	-	<1.0	-	<1.0	-																			
Methyl Ethyl Ketone (MEK) (2-Butanone)	µg/L	n/v	1,800 <sup>C</sup> 1,800 <sup>H</sup>	<10	-	<10	-	<10	-	<10	-	<10	-	<10	-	<10	-																			
Methyl Isobutyl Ketone (MIBK)	µg/L	n/v	640 <sup>C</sup> 640 <sup>H</sup>	<5.0	-	<5.0	-	<5.0	-	<5.0	-	<5.0	-	<5.0	-	<5.0	-																			
Methyl tert-butyl ether (MTBE)	µg/L	n/v	15 <sup>C</sup> 15 <sup>H</sup>	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-																			
Methylene Chloride (Dichloromethane)	µg/L	50 <sup>C</sup>	26 <sup>C</sup> 50 <sup>H</sup>	<2.0	-	<2.0	-	<2.0	-	<2.0	-	<2.0	-	<2.0	-	<2.0	-																			
Styrene	µg/L	n/v	5.4 <sup>C</sup> 5.4 <sup>H</sup>	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-																			
Tetrachloroethane, 1,1,1,2-	µg/L	n/v	1.1 <sup>C</sup> 1.1 <sup>H</sup>	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-																			
Tetrachloroethane, 1,1,2,2-	µg/L	n/v	0.5 <sup>C</sup> 1 <sup>H</sup>	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-																			
Tetrachloroethene (PCE)	µg/L	30 <sup>C</sup>	0.5 <sup>C</sup> 1.6 <sup>H</sup>	<0.20	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-																			
Trichloroethane, 1,1,1-	µg/L	n/v	23 <sup>C</sup> 200 <sup>H</sup>	<0.20	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-																			
Trichloroethane, 1,1,2-	µg/L	n/v	0.5 <sup>C</sup> 4.7 <sup>H</sup>	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-																			
Trichloroethene (TCE)	µg/L	5 <sup>C</sup>	0.5 <sup>C</sup> 1.6 <sup>H</sup>	<0.20	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-																			
Trichlorofluoromethane (Freon 11)	µg/L	n/v	150 <sup>C</sup> 150 <sup>H</sup>	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-																			
Trihalomethanes	µg/L	100 <sup>C</sup>	n/v	-	-	<1.0	-	-	-	-	-	<1.0	-	-	-	<1.0	-																			
Vinyl Chloride	µg/L	1 <sup>C</sup>	0.5 <sup>C</sup> 0.5 <sup>H</sup>	<0.20	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-																			

See notes on last page

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

Sample Location	Sample Date	Sample ID	Sampling Company	Laboratory	Laboratory Work Order	Laboratory Sample ID	Filtered	Sample Type	MW5-14-S								MW5-14-S (2)				MW6-14			
									24-Apr-17	24-Apr-17	24-Apr-17	24-Apr-17	16-Oct-17	16-Oct-17	24-Apr-17	24-Apr-17	18-Oct-17	18-Oct-17	18-Oct-17	18-Oct-17	26-Apr-17	26-Apr-17	19-Oct-17	19-Oct-17
Units	ODWS	Ontario SCS	WG-160900764-20170424-KR-03	WG-160900764-20170424-KR-04	WG-160900764-20170424-KR-03A	WG-160900764-20170424-KR-04A	WG-160900764-20171016-RD01	WG-160900764-20171016-RD01A	WG-160900764-20170424-KR-02	WG-160900764-20170424-KR-02A	WG-160900764-20171018-RD11	WG-160900764-20171018-RD12	WG-160900764-20171018-RD11A	WG-160900764-20171018-RD12A	WG-160900764-20170426-KR-14	WG-160900764-20170426-KR-14A	WG-160900764-20171019-RD15	WG-160900764-20171019-RD15A						
			STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC						
			MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX						
			B782020	B782020	B782020	B782020	B7M9492	B7M9492	B782020	B782020	B7N2183	B7N2183	B7N2183	B7N2183	B785281	B785281	B7N2183	B7N2183						
			EGP550	EGP552	EGP551	EGP553	FIQ040	FIQ041	EGP548	EGP549	FJF443	FJF445	FJF444	FJF446	EHF906	EHF907	FJF453	FJF454						
			Field Filtered Metals	Field Filtered Metals	Lab Filtered SVOC	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Field Filtered Metals	Lab Filtered SVOC	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC						
				Field Duplicate		Field Duplicate						Field Duplicate		Field Duplicate										
<b>General Chemistry</b>																								
Acidity	mg/L	n/v	n/v	50	50	-	-	25	-	28	-	12	13	-	-	10	-	<5.0	-					
Alkalinity, Bicarbonate (as CaCO3)	mg/L	n/v	n/v	270	260	-	-	260	-	250	-	230	230	-	-	190	-	190	-					
Alkalinity, Carbonate (as CaCO3)	mg/L	n/v	n/v	1.5	1.4	-	-	1.3	-	1.7	-	2.1	2.1	-	-	2.0	-	2.8	-					
Alkalinity, Total (as CaCO3)	mg/L	30-500 <sup>E</sup>	n/v	270	270	-	-	260	-	250	-	230	240	-	-	190	-	190	-					
Ammonia (as N)	mg/L	n/v	n/v	<0.050	<0.050	-	-	<0.050	-	<0.050	-	<0.050	<0.050	-	-	<0.050	-	<0.050	-					
Anion Sum	meq/L	n/v	n/v	9.52	9.51	-	-	9.12	-	7.12	-	7.50	7.52	-	-	5.30	-	4.96	-					
Cation Sum	meq/L	n/v	n/v	9.55	9.18	-	-	9.60	-	6.54	-	7.39	7.43	-	-	5.12	-	4.78	-					
Chloride	mg/L	250 <sup>D</sup>	790 <sup>G</sup> 790 <sup>H</sup>	94	95	-	-	50	-	47	-	59	60	-	-	23	-	19	-					
Cyanide (Free)	µg/L	200 <sup>C</sup>	52 <sup>G</sup> 52 <sup>H</sup>	<1	<1	-	-	<1	-	<1	-	<1	<1	-	-	<1	-	<1	-					
Dissolved Organic Carbon (DOC)	mg/L	5 <sup>D</sup>	n/v	1.1	1.1	-	-	1.2	-	0.87	-	0.87	0.88	-	-	0.94	-	0.89	-					
Electrical Conductivity, Lab	µmhos/cm	n/v	n/a <sup>GH</sup>	960	960	-	-	830	-	730	-	710	710	-	-	510	-	450	-					
Fluoride	mg/L	1.5 <sup>b</sup> <sup>C</sup>	n/v	<0.10	<0.10	-	-	<0.10	-	<0.10	-	<0.10	<0.10	-	-	0.27	-	0.30	-					
Hardness (as CaCO3)	mg/L	80-100 <sup>E</sup>	n/v	430 <sup>E</sup>	420 <sup>E</sup>	-	-	420 <sup>E</sup>	-	310 <sup>E</sup>	-	360 <sup>E</sup>	360 <sup>E</sup>	-	-	230 <sup>E</sup>	-	210 <sup>E</sup>	-					
Ion Balance	%	n/v	n/v	0.150	1.76	-	-	2.55	-	4.22	-	0.710	0.620	-	-	1.76	-	1.85	-					
Langelier Index (at 20 C)	none	n/v	n/v	0.884	0.837	-	-	0.841	-	0.839	-	0.967	0.986	-	-	0.458	-	0.582	-					
Langelier Index (at 4 C)	none	n/v	n/v	0.637	0.590	-	-	0.594	-	0.591	-	0.719	0.737	-	-	0.209	-	0.332	-					
Nitrate (as N)	mg/L	10.0 <sup>a</sup> <sup>C</sup>	n/v	9.78	9.76	-	-	8.48	-	5.26	-	8.21	8.19	-	-	<0.10	-	<0.10	-					
Nitrate + Nitrite (as N)	mg/L	10.0 <sup>a</sup> <sup>C</sup>	n/v	9.78	9.76	-	-	8.48	-	5.26	-	8.21	8.19	-	-	<0.10	-	<0.10	-					
Nitrite (as N)	mg/L	1.0 <sup>a</sup> <sup>C</sup>	n/v	<0.010	<0.010	-	-	<0.010	-	<0.010	-	<0.010	<0.010	-	-	<0.010	-	<0.010	-					
Orthophosphate(as P)	mg/L	n/v	n/v	<0.010	0.011	-	-	<0.010	-	<0.010	-	<0.010	<0.010	-	-	<0.010	-	<0.010	-					
pH	S.U.	6.5-8.5 <sup>E</sup>	n/v	7.76	7.74	-	-	7.72	-	7.87	-	7.97	7.98	-	-	8.04	-	8.20	-					
Saturation pH (at 20 C)	none	n/v	n/v	6.88	6.90	-	-	6.88	-	7.03	-	7.01	6.99	-	-	7.58	-	7.62	-					
Saturation pH (at 4 C)	none	n/v	n/v	7.13	7.15	-	-	7.12	-	7.28	-	7.25	7.24	-	-	7.83	-	7.87	-					
Sulfate	mg/L	500 <sup>h</sup> <sup>D</sup>	n/v	40	39	-	-	91	-	21	-	27	26	-	-	38	-	31	-					
Total Dissolved Solids	mg/L	500 <sup>D</sup>	n/v	648 <sup>D</sup>	640 <sup>D</sup>	-	-	550 <sup>D</sup>	-	474	-	480	445	-	-	290	-	205	-					
Total Dissolved Solids (Calculated)	mg/L	500 <sup>D</sup>	n/v	530 <sup>D</sup>	530 <sup>D</sup>	-	-	540 <sup>D</sup>	-	380	-	420	420	-	-	280	-	260	-					
Total Organic Carbon	mg/L	n/v	n/v	1.1	0.95	-	-	1.5	-	0.70	-	0.90	0.90	-	-	1.1	-	0.91	-					
Total Suspended Solids	mg/L	n/v	n/v	<10	<10	-	-	30	-	<10	-	<10	<10	-	-	10	-	26	-					
Turbidity, Lab	NTU	5 <sup>D</sup> <sup>E</sup> <sub>J</sub>	n/v	1.6	1.0	-	-	1.7	-	4.6	-	1.0	1.1	-	-	3.2	-	2.2	-					
<b>BTEX and Petroleum Hydrocarbons</b>																								
Benzene	µg/L	1 <sup>C</sup>	0.5 <sup>G</sup> 5 <sup>H</sup>	<0.20	<0.20	-	-	<0.20	-	<0.20	-	<0.20	<0.20	-	-	<0.20	-	<0.20	-					
Toluene	µg/L	24 <sup>D</sup>	24 <sup>G</sup> 22 <sup>H</sup>	<0.20	<0.20	-	-	<0.20	-	<0.20	-	<0.20	<0.20	-	-	<0.20	-	<0.20	-					
Ethylbenzene	µg/L	2.4 <sup>D</sup>	2.4 <sup>G</sup> 2.4 <sup>H</sup>	<0.20	<0.20	-	-	<0.20	-	<0.20	-	<0.20	<0.20	-	-	<0.20	-	<0.20	-					
Xylene, m & p-	µg/L	300 <sup>1</sup> <sup>D</sup>	31 <sup>GH</sup>	<0.20	<0.20	-	-	<0.20	-	<0.20	-	<0.20	<0.20	-	-	<0.20	-	<0.20	-					
Xylene, o-	µg/L	300 <sup>1</sup> <sup>D</sup>	31 <sup>GH</sup>	<0.20	<0.20	-	-	<0.20	-	<0.20	-	<0.20	<0.20	-	-	<0.20	-	<0.20	-					
Xylenes, Total	µg/L	300 <sup>D</sup>	72 <sup>1</sup> <sup>G</sup> 300 <sup>1</sup> <sup>H</sup>	<0.20	<0.20	-	-	<0.20	-	<0.20	-	<0.20	<0.20	-	-	<0.20	-	<0.20	-					
PHC F1 (C6-C10 range)	µg/L	n/v	37 <sup>GH</sup>	<25	<25	-	-	<25	-	<25	-	<25	<25	-	-	<25	-	<25	-					
PHC F1 (C6-C10 range) minus BTEX	µg/L	n/v	420 <sup>7</sup> <sup>GH</sup>	<25	<25	-	-	<25	-	<25	-	<25	<25	-	-	<25	-	<25	-					
PHC F2 (>C10-C16 range)	µg/L	n/v	150 <sup>13</sup> <sup>GH</sup>	<100	<100	-	-	<100	-	<100	-	<100	<100	-	-	<100	-	<100	-					
PHC F3 (>C16-C34 range)	µg/L	n/v	500 <sup>8</sup> <sup>GH</sup>	<200	<200	-	-	<200	-	<200	-	<200	<200	-	-	<200	-	<200	-					
PHC F4 (>C34-C50 range)	µg/L	n/v	500 <sup>10</sup> <sup>GH</sup>	<200	<200	-	-	<200	-	<200	-	<200	<200	-	-	<200	-	<200	-					
Chromatogram to baseline at C50	none	n/v	n/v	YES	YES	-	-	YES	-	YES	-	YES	YES	-	-	YES	-	YES	-					

See notes on last page

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**Clarington Transformer Station**  
**Hydro One Networks Inc.**

Sample Location	Sample Date	Sample ID	Sampling Company	Laboratory	Laboratory Work Order	Laboratory Sample ID	Filtered	Sample Type	MW5-14-S								MW5-14-S (2)				MW6-14					
									24-Apr-17	24-Apr-17	24-Apr-17	24-Apr-17	16-Oct-17	16-Oct-17	24-Apr-17	24-Apr-17	18-Oct-17	18-Oct-17	18-Oct-17	18-Oct-17	26-Apr-17	26-Apr-17	19-Oct-17	19-Oct-17		
									WG-160900764-20170424-KR-03	WG-160900764-20170424-KR-04	WG-160900764-20170424-KR-03A	WG-160900764-20170424-KR-04A	WG-160900764-20171016-RD01	WG-160900764-20171016-RD01A	WG-160900764-20170424-KR-02	WG-160900764-20170424-KR-02A	WG-160900764-20171018-RD11	WG-160900764-20171018-RD12	WG-160900764-20171018-RD11A	WG-160900764-20171018-RD12A	WG-160900764-20170426-KR-14	WG-160900764-20170426-KR-14A	WG-160900764-20171019-RD15	WG-160900764-20171019-RD15A		
									STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC		
									MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX		
									B782020	B782020	B782020	B782020	B7M9492	B7M9492	B782020	B782020	B7N2183	B7N2183	B7N2183	B7N2183	B785281	B785281	B7N2183	B7N2183		
									EGP550	EGP552	EGP551	EGP553	FIQ040	FIQ041	EGP548	EGP549	FJF443	FJF445	FJF444	FJF446	EHF906	EHF907	FJF453	FJF454		
									Field Filtered Metals	Field Filtered Metals	Lab Filtered SVOC	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Field Filtered Metals	Lab Filtered SVOC	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC		
									Units	ODWS	Ontario SCS	Field Duplicate	Field Duplicate				Field Duplicate			Field Duplicate						
<b>Metals</b>																										
Aluminum	µg/L	100 <sup>F</sup>	n/v	<5.0	<5.0	-	-	5.2	-	<5.0	-	<5	<5	-	-	11	-	13	-							
Antimony	µg/L	6 <sup>B</sup>	6 <sup>G</sup> 6 <sup>H</sup>	<0.50	<0.50	-	-	<0.5	-	<0.50	-	<0.5	<0.5	-	-	<0.50	-	<0.5	-							
Arsenic	µg/L	25 <sup>B</sup>	25 <sup>G</sup> 25 <sup>H</sup>	<1.0	<1.0	-	-	<1	-	<1.0	-	<1	<1	-	-	<1.0	-	<1	-							
Barium	µg/L	1,000 <sup>C</sup>	1,000 <sup>G</sup> 1,000 <sup>H</sup>	62	61	-	-	70	-	30	-	34	35	-	-	72	-	71	-							
Beryllium	µg/L	n/v	4 <sup>G</sup> 4 <sup>H</sup>	<0.50	<0.50	-	-	<0.5	-	<0.50	-	<0.5	<0.5	-	-	<0.50	-	<0.5	-							
Boron	µg/L	5,000 <sup>B</sup>	5,000 <sup>G</sup> 5,000 <sup>H</sup>	<10.0	<10.0	-	-	53	-	<10.0	-	<10	<10	-	-	30	-	34	-							
Cadmium	µg/L	5 <sup>C</sup>	2.1 <sup>G</sup> 2.1 <sup>H</sup>	<0.10	<0.10	-	-	<0.1	-	<0.10	-	<0.1	<0.1	-	-	<0.10	-	<0.1	-							
Calcium	µg/L	n/v	n/v	160,000	150,000	-	-	150,000	-	110,000	-	120,000	120,000	-	-	36,000	-	31,000	-							
Chromium	µg/L	50 <sup>C</sup>	50 <sup>G</sup> 50 <sup>H</sup>	<5.0	<5.0	-	-	<5	-	<5.0	-	<5	<5	-	-	<5.0	-	<5	-							
Chromium (Hexavalent)	µg/L	n/v	25 <sup>G</sup> 25 <sup>H</sup>	1.4	1.4	-	-	2.4	-	0.63	-	0.81	0.87	-	-	<0.50	-	<0.50	-							
Cobalt	µg/L	n/v	3.8 <sup>G</sup> 3.8 <sup>H</sup>	<0.50	0.54	-	-	<0.5	-	<0.50	-	<0.5	<0.5	-	-	<0.50	-	<0.5	-							
Copper	µg/L	1,000 <sup>D</sup>	69 <sup>G</sup> 69 <sup>H</sup>	<1.0	<1.0	-	-	<1	-	<1.0	-	<1	<1	-	-	<1.0	-	<1	-							
Iron	µg/L	300 <sup>D</sup>	n/v	<100	<100	-	-	<100	-	<100	-	<100	<100	-	-	<100	-	<100	-							
Lead	µg/L	10 <sup>C</sup>	10 <sup>G</sup> 10 <sup>H</sup>	<0.50	<0.50	-	-	<0.5	-	<0.50	-	<0.5	<0.5	-	-	<0.50	-	<0.5	-							
Magnesium	µg/L	n/v	n/v	11,000	11,000	-	-	9,900	-	9,900	-	13,000	13,000	-	-	34,000	-	32,000	-							
Manganese	µg/L	50 <sup>D</sup>	n/v	<2.0	<2.0	-	-	<2	-	<2.0	-	<2	<2	-	-	13	-	23	-							
Mercury	µg/L	1 <sup>C</sup>	0.1 <sup>G</sup> 0.29 <sup>H</sup>	<0.1	<0.1	-	-	<0.1	-	<0.1	-	<0.1	<0.1	-	-	<0.1	-	<0.1	-							
Molybdenum	µg/L	n/v	70 <sup>G</sup> 70 <sup>H</sup>	<0.50	<0.50	-	-	<0.5	-	0.93	-	<0.5	<0.5	-	-	3.7	-	2.8	-							
Nickel	µg/L	n/v	100 <sup>G</sup> 100 <sup>H</sup>	<1.0	<1.0	-	-	<1	-	<1.0	-	<1	<1	-	-	<1.0	-	<1	-							
Phosphorus	µg/L	n/v	n/v	<100	<100	-	-	<100	-	<100	-	<100	<100	-	-	<100	-	100	-							
Potassium	µg/L	n/v	n/v	1,200	1,200	-	-	1,500	-	1,100	-	1,000	1,000	-	-	3,300	-	3,100	-							
Selenium	µg/L	10 <sup>C</sup>	10 <sup>G</sup> 10 <sup>H</sup>	<2.0	<2.0	-	-	<2	-	<2.0	-	<2	<2	-	-	<2.0	-	<2	-							
Silicon	µg/L	n/v	n/v	4,400	4,300	-	-	5,300	-	4,400	-	6,000	5,900	-	-	9,000	-	9,600	-							
Silver	µg/L	n/v	1.2 <sup>G</sup> 1.2 <sup>H</sup>	<0.10	<0.10	-	-	<0.1	-	<0.10	-	<0.1	<0.1	-	-	<0.10	-	<0.1	-							
Sodium	µg/L	200,000 <sup>G</sup> 20,000 <sup>F</sup>	490,000 <sup>G</sup> 490,000 <sup>H</sup>	20,000	19,000	-	-	25,000 <sup>F</sup>	-	6,200	-	4,300	4,300	-	-	11,000	-	12,000	-							
Strontium	µg/L	n/v	n/v	280	290	-	-	300	-	220	-	230	230	-	-	560	-	580	-							
Thallium	µg/L	n/v	2 <sup>G</sup> 2 <sup>H</sup>	<0.050	<0.050	-	-	<0.05	-	<0.050	-	<0.05	<0.05	-	-	<0.050	-	<0.05	-							
Titanium	µg/L	n/v	n/v	<5.0	<5.0	-	-	<5	-	<5.0	-	<5	<5	-	-	<5.0	-	<5	-							
Uranium	µg/L	20 <sup>C</sup>	20 <sup>G</sup> 20 <sup>H</sup>	0.51	0.50	-	-	0.58	-	1.3	-	0.63	0.65	-	-	1.4	-	0.98	-							
Vanadium	µg/L	n/v	6.2 <sup>G</sup> 6.2 <sup>H</sup>	<0.50	<0.50	-	-	<0.5	-	<0.50	-	<0.5	<0.5	-	-	<0.50	-	<0.5	-							
Zinc	µg/L	5,000 <sup>D</sup>	890 <sup>G</sup> 890 <sup>H</sup>	<5.0	<5.0	-	-	<5	-	<5.0	-	<5	<5	-	-	<5.0	-	<5	-							
Zirconium	µg/L	n/v	n/v	<1.0	<1.0	-	-	<1	-	<1.0	-	<1	<1	-	-	<1.0	-	<1	-							
<b>Polychlorinated Biphenyls</b>																										
Aroclor 1242	µg/L	n/v	14 <sup>GH</sup>	<0.05	<0.05	-	-	<0.05	-	<0.05	-	<0.05	<0.05	-	-	<0.05	-	<0.05	-							
Aroclor 1248	µg/L	n/v	14 <sup>GH</sup>	<0.05	<0.05	-	-	<0.05	-	<0.05	-	<0.05	<0.05	-	-	<0.05	-	<0.05	-							
Aroclor 1254	µg/L	n/v	14 <sup>GH</sup>	<0.05	<0.05	-	-	<0.05	-	<0.05	-	<0.05	<0.05	-	-	<0.05	-	<0.05	-							
Aroclor 1260	µg/L	n/v	14 <sup>GH</sup>	<0.05	<0.05	-	-	<0.05	-	<0.05	-	<0.05	<0.05	-	-	<0.05	-	<0.05	-							
Polychlorinated Biphenyls (PCBs)	µg/L	3 <sup>B</sup>	0.2 <sup>GH</sup> 14	<0.05	<0.05	-	-	<0.05	-	<0.05	-	<0.05	<0.05	-	-	<0.05	-	<0.05	-							

See notes on last page

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

Sample Location	Sample Date	Sample ID	Sampling Company	Laboratory	Laboratory Work Order	Laboratory Sample ID	MW5-14-S				MW5-14-S (2)				MW6-14			
							24-Apr-17	24-Apr-17	24-Apr-17	24-Apr-17	16-Oct-17	16-Oct-17	24-Apr-17	24-Apr-17	18-Oct-17	18-Oct-17	18-Oct-17	18-Oct-17
Units	ODWS	Ontario SCS	Field Filtered Metals	Field Filtered Metals	Lab Filtered SVOC	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Field Filtered Metals	Lab Filtered SVOC	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC
<b>Semi-Volatile Organic Compounds</b>																		
<b>Phthalates</b>																		
Bis(2-Ethylhexyl)phthalate (DEHP)	µg/L	n/v	10 <sup>0</sup> 10 <sup>H</sup>	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Diethyl Phthalate	µg/L	n/v	30 <sup>0</sup> 30 <sup>H</sup>	<0.1	<0.1	<0.1	<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 <sup>0</sup> 30 <sup>H</sup>	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
<b>Polycyclic Aromatic Hydrocarbons</b>																		
Acenaphthene	µg/L	n/v	4.1 <sup>0</sup> 4.1 <sup>H</sup>	<0.2	<0.2	<0.2	<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 <sup>0</sup> 1 <sup>H</sup>	<0.2	<0.2	<0.2	<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 <sup>0</sup> 1 <sup>H</sup>	<0.05	<0.05	<0.05	<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 <sup>0</sup> 1 <sup>H</sup>	<0.05	<0.05	<0.05	<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 <sup>C</sup>	0.01 <sup>0</sup> 0.01 <sup>H</sup>	<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)fluoranthene	µg/L	n/v	0.1 <sup>0</sup> 0.1 <sup>H</sup>	<0.05	<0.05	<0.05	<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 <sup>0</sup> 0.2 <sup>H</sup>	<0.05	<0.05	<0.05	<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 <sup>0</sup> 0.1 <sup>H</sup>	<0.05	<0.05	<0.05	<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 <sup>0</sup> 0.1 <sup>H</sup>	<0.05	<0.05	<0.05	<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 <sup>0</sup> 0.2 <sup>H</sup>	<0.1	<0.1	<0.1	<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 <sup>0</sup> 0.41 <sup>H</sup>	<0.2	<0.2	<0.2	<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 <sup>0</sup> 120 <sup>H</sup>	<0.2	<0.2	<0.2	<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 <sup>0</sup> 0.2 <sup>H</sup>	<0.1	<0.1	<0.1	<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 <sup>0</sup> 3.2 <sup>H</sup>	<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	3 <sup>0</sup> 3 <sup>H</sup>	<0.2	<0.2	<0.2	<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	3 <sup>0</sup> 3 <sup>H</sup>	<0.2	<0.2	<0.2	<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 <sup>0</sup> 11 <sup>H</sup>	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Phenanthrene	µg/L	n/v	1 <sup>0</sup> 1 <sup>H</sup>	<0.1	<0.1	<0.1	<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 <sup>0</sup> 4.1 <sup>H</sup>	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
<b>Remaining Semi-Volatile Organic Compounds</b>																		
Biphenyl, 1,1'- (Biphenyl)	µg/L	n/v	0.5 <sup>0</sup> 0.5 <sup>H</sup>	<0.1	<0.1	<0.1	<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 <sup>0</sup> 5 <sup>H</sup>	<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 <sup>0</sup> 120 <sup>H</sup>	<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 <sup>0</sup> 10 <sup>H</sup>	<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 <sup>0</sup> 8.9 <sup>H</sup>	<0.1	<0.1	<0.1	<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 <sup>0</sup> 0.5 <sup>H</sup>	<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 <sup>C</sup> 0.3 <sup>D</sup>	20 <sup>0</sup> 20 <sup>H</sup>	<0.1	<0.1	<0.1	<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 <sup>0</sup> 59 <sup>H</sup>	<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 <sup>0</sup> 10 <sup>H</sup>	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Dinitrotoluene, 2,4-	µg/L	n/v	5 <sup>0</sup> 5 <sup>H</sup>	<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 <sup>0</sup> 5 <sup>H</sup>	<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 <sup>C</sup> 30 <sup>D</sup>	30 <sup>0</sup> 30 <sup>H</sup>	<0.1	<0.1	<0.1	<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 <sup>0</sup> 890 <sup>H</sup>	<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 <sup>0</sup> 70 <sup>H</sup>	<0.1	<0.1	<0.1	<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 <sup>0</sup> 8.9 <sup>H</sup>	<0.2	<0.2	<0.2	<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 <sup>C</sup> 2 <sup>D</sup>	2 <sup>0</sup> 2 <sup>H</sup>	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2

See notes on last page

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

Sample Location	Sample Date	Sample ID	Sampling Company	Laboratory	Laboratory Work Order	Laboratory Sample ID	Filtered	Sample Type	Units	ODWS	Ontario SCS	MW5-14-S						MW5-14-S (2)				MW6-14							
												24-Apr-17	24-Apr-17	24-Apr-17	24-Apr-17	16-Oct-17	16-Oct-17	24-Apr-17	24-Apr-17	18-Oct-17	18-Oct-17	18-Oct-17	18-Oct-17	26-Apr-17	26-Apr-17	19-Oct-17	19-Oct-17		
												WG-160900764-20170424-KR-03	WG-160900764-20170424-KR-04	WG-160900764-20170424-KR-03A	WG-160900764-20170424-KR-04A	WG-160900764-20171016-RD01	WG-160900764-20171016-RD01A	WG-160900764-20170424-KR-02	WG-160900764-20170424-KR-02A	WG-160900764-20171018-RD11	WG-160900764-20171018-RD12	WG-160900764-20171018-RD11A	WG-160900764-20171018-RD12A	WG-160900764-20170426-KR-14	WG-160900764-20170426-KR-14A	WG-160900764-20171019-RD15	WG-160900764-20171019-RD15A		
												STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC
												MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX
												B782020	B782020	B782020	B782020	B7M9492	B7M9492	B782020	B782020	B7N2183	B7N2183	B7N2183	B7N2183	B785281	B785281	B7N2183	B7N2183	B7N2183	
												EGP550	EGP552	EGP551	EGP553	FIQ040	FIQ041	EGP548	EGP549	FJF443	FJF445	FJF444	FJF446	EHF906	EHF907	FJF453	FJF454	FJF454	
												Field Filtered Metals	Field Filtered Metals	Lab Filtered SVOC	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Field Filtered Metals	Lab Filtered SVOC	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC		
													Field Duplicate		Field Duplicate					Field Duplicate			Field Duplicate						
<b>Volatile Organic Compounds</b>																													
Acetone	µg/L	n/v	2,700 <sup>C</sup> 2,700 <sup>H</sup>	<10	<10	-	-	<10	-	<10	-	<10	<10	-	-	<10	-	<10	-										
Bromodichloromethane	µg/L	n/v	16 <sup>C</sup> 16 <sup>H</sup>	<0.50	<0.50	-	-	<0.50	-	<0.50	-	<0.50	<0.50	-	-	<0.50	-	<0.50	-										
Bromoform (Tribromomethane)	µg/L	n/v	5 <sup>C</sup> 25 <sup>H</sup>	<1.0	<1.0	-	-	<1.0	-	<1.0	-	<1.0	<1.0	-	-	<1.0	-	<1.0	-										
Bromomethane (Methyl bromide)	µg/L	n/v	0.89 <sup>C</sup> 0.89 <sup>H</sup>	<0.50	<0.50	-	-	<0.50	-	<0.50	-	<0.50	<0.50	-	-	<0.50	-	<0.50	-										
Carbon Tetrachloride (Tetrachloromethane)	µg/L	2 <sup>C</sup>	0.2 <sup>C</sup> 0.79 <sup>H</sup>	<0.20	<0.20	-	-	<0.20	-	<0.20	-	<0.20	<0.20	-	-	<0.20	-	<0.20	-										
Chlorobenzene (Monochlorobenzene)	µg/L	80 <sup>C</sup> 30 <sup>D</sup>	30 <sup>C</sup> 30 <sup>H</sup>	<0.20	<0.20	-	-	<0.20	-	<0.20	-	<0.20	<0.20	-	-	<0.20	-	<0.20	-										
Chloroform (Trichloromethane)	µg/L	n/v	2 <sup>C</sup> 2.4 <sup>H</sup>	<0.20	<0.20	-	-	<0.20	-	<0.20	-	<0.20	<0.20	-	-	<0.20	-	<0.20	-										
Dibromochloromethane	µg/L	n/v	25 <sup>C</sup> 25 <sup>H</sup>	<0.50	<0.50	-	-	<0.50	-	<0.50	-	<0.50	<0.50	-	-	<0.50	-	<0.50	-										
Dichlorobenzene, 1,2-	µg/L	200 <sup>C</sup> 3 <sup>D</sup>	3 <sup>C</sup> 3 <sup>H</sup>	<0.50	<0.50	-	-	<0.50	-	<0.50	-	<0.50	<0.50	-	-	<0.50	-	<0.50	-										
Dichlorobenzene, 1,3-	µg/L	n/v	59 <sup>C</sup> 59 <sup>H</sup>	<0.50	<0.50	-	-	<0.50	-	<0.50	-	<0.50	<0.50	-	-	<0.50	-	<0.50	-										
Dichlorobenzene, 1,4-	µg/L	5 <sup>C</sup> 1 <sup>D</sup>	0.5 <sup>C</sup> 1 <sup>H</sup>	<0.50	<0.50	-	-	<0.50	-	<0.50	-	<0.50	<0.50	-	-	<0.50	-	<0.50	-										
Dichlorodifluoromethane (Freon 12)	µg/L	n/v	590 <sup>C</sup> 590 <sup>H</sup>	<1.0	<1.0	-	-	<1.0	-	<1.0	-	<1.0	<1.0	-	-	<1.0	-	<1.0	-										
Dichloroethane, 1,1-	µg/L	n/v	5 <sup>C</sup> 5 <sup>H</sup>	<0.20	<0.20	-	-	<0.20	-	<0.20	-	<0.20	<0.20	-	-	<0.20	-	<0.20	-										
Dichloroethane, 1,2-	µg/L	5 <sup>B</sup>	0.5 <sup>C</sup> 1.6 <sup>H</sup>	<0.50	<0.50	-	-	<0.50	-	<0.50	-	<0.50	<0.50	-	-	<0.50	-	<0.50	-										
Dichloroethene, 1,1-	µg/L	14 <sup>C</sup>	0.5 <sup>C</sup> 1.6 <sup>H</sup>	<0.20	<0.20	-	-	<0.20	-	<0.20	-	<0.20	<0.20	-	-	<0.20	-	<0.20	-										
Dichloroethene, cis-1,2-	µg/L	n/v	1.6 <sup>C</sup> 1.6 <sup>H</sup>	<0.50	<0.50	-	-	<0.50	-	<0.50	-	<0.50	<0.50	-	-	<0.50	-	<0.50	-										
Dichloroethene, trans-1,2-	µg/L	n/v	1.6 <sup>C</sup> 1.6 <sup>H</sup>	<0.50	<0.50	-	-	<0.50	-	<0.50	-	<0.50	<0.50	-	-	<0.50	-	<0.50	-										
Dichloropropane, 1,2-	µg/L	n/v	0.58 <sup>C</sup> 5 <sup>H</sup>	<0.20	<0.20	-	-	<0.20	-	<0.20	-	<0.20	<0.20	-	-	<0.20	-	<0.20	-										
Dichloropropene, 1,3- (sum of isomers cis + trans)	µg/L	n/v	0.5 <sup>C</sup> 1.1 <sup>H</sup>	<0.50	<0.50	-	-	<0.50	-	<0.50	-	<0.50	<0.50	-	-	<0.50	-	<0.50	-										
Dichloropropene, cis-1,3-	µg/L	n/v	1.1 <sup>C</sup> 1.1 <sup>H</sup>	<0.30	<0.30	-	-	<0.30	-	<0.30	-	<0.30	<0.30	-	-	<0.30	-	<0.30	-										
Dichloropropene, trans-1,3-	µg/L	n/v	1.1 <sup>C</sup> 1.1 <sup>H</sup>	<0.40	<0.40	-	-	<0.40	-	<0.40	-	<0.40	<0.40	-	-	<0.40	-	<0.40	-										
Ethylene Dibromide (Dibromoethane, 1,2-)	µg/L	n/v	0.2 <sup>C</sup> 0.2 <sup>H</sup>	<0.20	<0.20	-	-	<0.20	-	<0.20	-	<0.20	<0.20	-	-	<0.20	-	<0.20	-										
Hexane (n-Hexane)	µg/L	n/v	5 <sup>C</sup> 51 <sup>H</sup>	<1.0	<1.0	-	-	<1.0	-	<1.0	-	<1.0	<1.0	-	-	<1.0	-	<1.0	-										
Methyl Ethyl Ketone (MEK) (2-Butanone)	µg/L	n/v	1,800 <sup>C</sup> 1,800 <sup>H</sup>	<10	<10	-	-	<10	-	<10	-	<10	<10	-	-	<10	-	<10	-										
Methyl Isobutyl Ketone (MIBK)	µg/L	n/v	640 <sup>C</sup> 640 <sup>H</sup>	<5.0	<5.0	-	-	<5.0	-	<5.0	-	<5.0	<5.0	-	-	<5.0	-	<5.0	-										
Methyl tert-butyl ether (MTBE)	µg/L	n/v	15 <sup>C</sup> 15 <sup>H</sup>	<0.50	<0.50	-	-	<0.50	-	<0.50	-	<0.50	<0.50	-	-	<0.50	-	<0.50	-										
Methylene Chloride (Dichloromethane)	µg/L	50 <sup>C</sup>	26 <sup>C</sup> 50 <sup>H</sup>	<2.0	<2.0	-	-	<2.0	-	<2.0	-	<2.0	<2.0	-	-	<2.0	-	<2.0	-										
Styrene	µg/L	n/v	5.4 <sup>C</sup> 5.4 <sup>H</sup>	<0.50	<0.50	-	-	<0.50	-	<0.50	-	<0.50	<0.50	-	-	<0.50	-	<0.50	-										
Tetrachloroethane, 1,1,1,2-	µg/L	n/v	1.1 <sup>C</sup> 1.1 <sup>H</sup>	<0.50	<0.50	-	-	<0.50	-	<0.50	-	<0.50	<0.50	-	-	<0.50	-	<0.50	-										
Tetrachloroethane, 1,1,2,2-	µg/L	n/v	0.5 <sup>C</sup> 1 <sup>H</sup>	<0.50	<0.50	-	-	<0.50	-	<0.50	-	<0.50	<0.50	-	-	<0.50	-	<0.50	-										
Tetrachloroethene (PCE)	µg/L	30 <sup>C</sup>	0.5 <sup>C</sup> 1.6 <sup>H</sup>	<0.20	<0.20	-	-	<0.20	-	<0.20	-	<0.20	<0.20	-	-	<0.20	-	<0.20	-										
Trichloroethane, 1,1,1-	µg/L	n/v	23 <sup>C</sup> 200 <sup>H</sup>	<0.20	<0.20	-	-	<0.20	-	<0.20	-	<0.20	<0.20	-	-	<0.20	-	<0.20	-										
Trichloroethane, 1,1,2-	µg/L	n/v	0.5 <sup>C</sup> 4.7 <sup>H</sup>	<0.50	<0.50	-	-	<0.50	-	<0.50	-	<0.50	<0.50	-	-	<0.50	-	<0.50	-										
Trichloroethene (TCE)	µg/L	5 <sup>C</sup>	0.5 <sup>C</sup> 1.6 <sup>H</sup>	<0.20	<0.20	-	-	<0.20	-	<0.20	-	<0.20	<0.20	-	-	<0.20	-	<0.20	-										
Trichlorofluoromethane (Freon 11)	µg/L	n/v	150 <sup>C</sup> 150 <sup>H</sup>	<0.50	<0.50	-	-	<0.50	-	<0.50	-	<0.50	<0.50	-	-	<0.50	-	<0.50	-										
Trihalomethanes	µg/L	100 <sup>C</sup>	n/v	-	-	-	-	<1.0	-	-	-	<1.0	<1.0	-	-	-	-	<1.0	-										
Vinyl Chloride	µg/L	1 <sup>C</sup>	0.5 <sup>C</sup> 0.5 <sup>H</sup>	<0.20	<0.20	-	-	<0.20	-	<0.20	-	<0.20	<0.20	-	-	<0.20	-	<0.20	-										

See notes on last page

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

Sample Location	Sample Date	Sample ID	Sampling Company	Laboratory	Laboratory Work Order	Laboratory Sample ID	Filtered	Sample Type	MW7-14				FIELD BLANK		TRIP BLANK	
									26-Apr-17	26-Apr-17	17-Oct-17	17-Oct-17	27-Apr-17	17-Oct-17	27-Apr-17	19-Oct-17
Units	ODWS	Ontario SCS	WG-160900764-20170426-RD-15	WG-160900764-20170426-RD-15A	WG-160900764-20171017-RD08	WG-160900764-20171017-RD08A	Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC	FIELD BLANK	FIELD BLANK	TRIP BLANK	TRIP BLANK		
			STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	MAXX	MAXX	STANTEC	STANTEC		
			MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	B785281	B7N0947	B785281	B7N2183		
			EHF908	EHF909	FIY627	FIY628	EHF913	FIY633	EHF912	FJF455						
			Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC					Field Blank	Field Blank	Trip Blank	Trip Blank		
<b>General Chemistry</b>																
Acidity	mg/L	n/v	n/v	10	-	<5.0	-	-	-	-	-	-	-	-	-	
Alkalinity, Bicarbonate (as CaCO3)	mg/L	n/v	n/v	170	-	180	-	-	-	-	-	-	-	-	-	
Alkalinity, Carbonate (as CaCO3)	mg/L	n/v	n/v	1.6	-	2.0	-	-	-	-	-	-	-	-	-	
Alkalinity, Total (as CaCO3)	mg/L	30-500 <sup>E</sup>	n/v	180	-	190	-	-	-	-	-	-	-	-	-	
Ammonia (as N)	mg/L	n/v	n/v	<0.050	-	<0.050	-	-	-	-	-	-	-	-	-	
Anion Sum	meq/L	n/v	n/v	5.45	-	5.60	-	-	-	-	-	-	-	-	-	
Cation Sum	meq/L	n/v	n/v	5.43	-	5.41	-	-	-	-	-	-	-	-	-	
Chloride	mg/L	250 <sup>D</sup>	790 <sup>G</sup> 790 <sup>H</sup>	29	-	29	-	-	-	-	-	-	-	-	-	
Cyanide (Free)	µg/L	200 <sup>C</sup>	52 <sup>D</sup> 52 <sup>H</sup>	<1	-	<1	-	-	-	-	-	-	-	-	-	
Dissolved Organic Carbon (DOC)	mg/L	5 <sup>D</sup>	n/v	0.81	-	0.77	-	-	-	-	-	-	-	-	-	
Electrical Conductivity, Lab	µmhos/cm	n/v	n/a <sup>GH</sup>	540	-	510	-	-	-	-	-	-	-	-	-	
Fluoride	mg/L	1.5 <sup>b</sup> <sup>C</sup>	n/v	0.19	-	0.20	-	-	-	-	-	-	-	-	-	
Hardness (as CaCO3)	mg/L	80-100 <sup>E</sup>	n/v	250 <sup>E</sup>	-	250 <sup>E</sup>	-	-	-	-	-	-	-	-	-	
Ion Balance	%	n/v	n/v	0.180	-	1.70	-	-	-	-	-	-	-	-	-	
Langelier Index (at 20 C)	none	n/v	n/v	0.459	-	0.545	-	-	-	-	-	-	-	-	-	
Langelier Index (at 4 C)	none	n/v	n/v	0.211	-	0.296	-	-	-	-	-	-	-	-	-	
Nitrate (as N)	mg/L	10.0 <sup>a</sup> <sup>C</sup>	n/v	0.48	-	0.51	-	-	-	-	-	-	-	-	-	
Nitrate + Nitrite (as N)	mg/L	10.0 <sup>a</sup> <sup>C</sup>	n/v	0.48	-	0.53	-	-	-	-	-	-	-	-	-	
Nitrite (as N)	mg/L	1.0 <sup>a</sup> <sup>C</sup>	n/v	<0.010	-	0.019	-	-	-	-	-	-	-	-	-	
Orthophosphate(as P)	mg/L	n/v	n/v	0.011	-	<0.010	-	-	-	-	-	-	-	-	-	
pH	S.U.	6.5-8.5 <sup>E</sup>	n/v	7.99	-	8.06	-	-	-	-	-	-	-	-	-	
Saturation pH (at 20 C)	none	n/v	n/v	7.53	-	7.51	-	-	-	-	-	-	-	-	-	
Saturation pH (at 4 C)	none	n/v	n/v	7.78	-	7.76	-	-	-	-	-	-	-	-	-	
Sulfate	mg/L	500 <sup>h</sup> <sup>D</sup>	n/v	52	-	48	-	-	-	-	-	-	-	-	-	
Total Dissolved Solids	mg/L	500 <sup>D</sup>	n/v	334	-	310	-	-	-	-	-	-	-	-	-	
Total Dissolved Solids (Calculated)	mg/L	500 <sup>D</sup>	n/v	300	-	310	-	-	-	-	-	-	-	-	-	
Total Organic Carbon	mg/L	n/v	n/v	0.66	-	0.89	-	-	-	-	-	-	-	-	-	
Total Suspended Solids	mg/L	n/v	n/v	<10	-	43	-	-	-	-	-	-	-	-	-	
Turbidity, Lab	NTU	5 <sup>D</sup> <sup>E</sup> <sub>j</sub>	n/v	0.4	-	6.3 <sup>D</sup>	-	-	-	-	-	-	-	-	-	
<b>BTEX and Petroleum Hydrocarbons</b>																
Benzene	µg/L	1 <sup>C</sup>	0.5 <sup>G</sup> 5 <sup>H</sup>	<0.20	-	<0.20	-	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	
Toluene	µg/L	24 <sup>D</sup>	24 <sup>G</sup> 22 <sup>H</sup>	<0.20	-	<0.20	-	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	
Ethylbenzene	µg/L	2.4 <sup>D</sup>	2.4 <sup>G</sup> 2.4 <sup>H</sup>	<0.20	-	<0.20	-	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	
Xylene, m & p-	µg/L	300 <sub>1</sub> <sup>D</sup>	31 <sup>GH</sup>	<0.20	-	<0.20	-	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	
Xylene, o-	µg/L	300 <sub>1</sub> <sup>D</sup>	31 <sup>GH</sup>	<0.20	-	<0.20	-	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	
Xylenes, Total	µg/L	300 <sup>D</sup>	72 <sub>1</sub> <sup>G</sup> 300 <sub>1</sub> <sup>H</sup>	<0.20	-	<0.20	-	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	
PHC F1 (C6-C10 range)	µg/L	n/v	37 <sup>GH</sup>	<25	-	<25	-	<25	<25	<25	<25	<25	<25	<25	<25	
PHC F1 (C6-C10 range) minus BTEX	µg/L	n/v	420 <sub>7</sub> <sup>GH</sup>	<25	-	<25	-	<25	<25	<25	<25	<25	<25	<25	<25	
PHC F2 (>C10-C16 range)	µg/L	n/v	150 <sub>13</sub> <sup>GH</sup>	<100	-	<100	-	<100	<100	<100	<100	<100	<100	<100	<100	
PHC F3 (>C16-C34 range)	µg/L	n/v	500 <sub>8</sub> <sup>GH</sup>	<200	-	<200	-	<200	<200	<200	<200	<200	<200	<200	<200	
PHC F4 (>C34-C50 range)	µg/L	n/v	500 <sub>10</sub> <sup>GH</sup>	<200	-	<200	-	<200	<200	<200	<200	<200	<200	<200	<200	
Chromatogram to baseline at C50	none	n/v	n/v	YES	-	YES	-	YES	YES	YES	YES	YES	YES	YES	YES	

See notes on last page



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**Clarington Transformer Station**  
**Hydro One Networks Inc.**

Sample Location	Sample Date	Sample ID	Sampling Company	Laboratory	Laboratory Work Order	Laboratory Sample ID	Filtered	Sample Type	MW7-14				FIELD BLANK		TRIP BLANK	
									26-Apr-17	26-Apr-17	17-Oct-17	17-Oct-17	27-Apr-17	17-Oct-17	27-Apr-17	19-Oct-17
Units	ODWS	Ontario SCS	WG-160900764-20170426-RD-15	WG-160900764-20170426-RD-15A	WG-160900764-20171017-RD08	WG-160900764-20171017-RD08A	Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC	Field Blank	Field Blank	Trip Blank	Trip Blank		
<b>Metals</b>																
Aluminum	µg/L	100 <sup>F</sup>	n/v	15	-	13	-	-	-	-	-	-	-	-	-	
Antimony	µg/L	6 <sup>B</sup>	6 <sup>G</sup> 6 <sup>H</sup>	<0.50	-	<0.5	-	-	-	-	-	-	-	-	-	
Arsenic	µg/L	25 <sup>B</sup>	25 <sup>G</sup> 25 <sup>H</sup>	<1.0	-	1.4	-	-	-	-	-	-	-	-	-	
Barium	µg/L	1,000 <sup>C</sup>	1,000 <sup>G</sup> 1,000 <sup>H</sup>	94	-	110	-	-	-	-	-	-	-	-	-	
Beryllium	µg/L	n/v	4 <sup>G</sup> 4 <sup>H</sup>	<0.50	-	<0.5	-	-	-	-	-	-	-	-	-	
Boron	µg/L	5,000 <sup>B</sup>	5,000 <sup>G</sup> 5,000 <sup>H</sup>	15	-	18	-	-	-	-	-	-	-	-	-	
Cadmium	µg/L	5 <sup>C</sup>	2.1 <sup>G</sup> 2.1 <sup>H</sup>	<0.10	-	<0.1	-	-	-	-	-	-	-	-	-	
Calcium	µg/L	n/v	n/v	45,000	-	44,000	-	-	-	-	-	-	-	-	-	
Chromium	µg/L	50 <sup>C</sup>	50 <sup>G</sup> 50 <sup>H</sup>	<5.0	-	<5	-	-	-	-	-	-	-	-	-	
Chromium (Hexavalent)	µg/L	n/v	25 <sup>G</sup> 25 <sup>H</sup>	<0.50	-	<0.50	-	-	-	-	-	-	-	-	-	
Cobalt	µg/L	n/v	3.8 <sup>G</sup> 3.8 <sup>H</sup>	<0.50	-	<0.5	-	-	-	-	-	-	-	-	-	
Copper	µg/L	1,000 <sup>D</sup>	69 <sup>G</sup> 69 <sup>H</sup>	<1.0	-	<1	-	-	-	-	-	-	-	-	-	
Iron	µg/L	300 <sup>D</sup>	n/v	<100	-	<100	-	-	-	-	-	-	-	-	-	
Lead	µg/L	10 <sup>C</sup>	10 <sup>G</sup> 10 <sup>H</sup>	<0.50	-	<0.5	-	-	-	-	-	-	-	-	-	
Magnesium	µg/L	n/v	n/v	33,000	-	33,000	-	-	-	-	-	-	-	-	-	
Manganese	µg/L	50 <sup>D</sup>	n/v	13	-	14	-	-	-	-	-	-	-	-	-	
Mercury	µg/L	1 <sup>C</sup>	0.1 <sup>G</sup> 0.29 <sup>H</sup>	<0.1	-	<0.1	-	-	-	-	-	-	-	-	-	
Molybdenum	µg/L	n/v	70 <sup>G</sup> 70 <sup>H</sup>	2.2	-	2	-	-	-	-	-	-	-	-	-	
Nickel	µg/L	n/v	100 <sup>G</sup> 100 <sup>H</sup>	<1.0	-	<1	-	-	-	-	-	-	-	-	-	
Phosphorus	µg/L	n/v	n/v	<100	-	<100	-	-	-	-	-	-	-	-	-	
Potassium	µg/L	n/v	n/v	2,700	-	2,800	-	-	-	-	-	-	-	-	-	
Selenium	µg/L	10 <sup>C</sup>	10 <sup>G</sup> 10 <sup>H</sup>	<2.0	-	<2	-	-	-	-	-	-	-	-	-	
Silicon	µg/L	n/v	n/v	9,700	-	11,000	-	-	-	-	-	-	-	-	-	
Silver	µg/L	n/v	1.2 <sup>G</sup> 1.2 <sup>H</sup>	<0.10	-	<0.1	-	-	-	-	-	-	-	-	-	
Sodium	µg/L	200,000 <sup>G</sup> 20,000 <sup>F</sup>	490,000 <sup>G</sup> 490,000 <sup>H</sup>	9,600	-	9,700	-	-	-	-	-	-	-	-	-	
Strontium	µg/L	n/v	n/v	400	-	440	-	-	-	-	-	-	-	-	-	
Thallium	µg/L	n/v	2 <sup>G</sup> 2 <sup>H</sup>	<0.050	-	<0.05	-	-	-	-	-	-	-	-	-	
Titanium	µg/L	n/v	n/v	<5.0	-	<5	-	-	-	-	-	-	-	-	-	
Uranium	µg/L	20 <sup>C</sup>	20 <sup>G</sup> 20 <sup>H</sup>	1.2	-	0.89	-	-	-	-	-	-	-	-	-	
Vanadium	µg/L	n/v	6.2 <sup>G</sup> 6.2 <sup>H</sup>	<0.50	-	<0.5	-	-	-	-	-	-	-	-	-	
Zinc	µg/L	5,000 <sup>D</sup>	890 <sup>G</sup> 890 <sup>H</sup>	<5.0	-	<5	-	-	-	-	-	-	-	-	-	
Zirconium	µg/L	n/v	n/v	<1.0	-	<1	-	-	-	-	-	-	-	-	-	
<b>Polychlorinated Biphenyls</b>																
Aroclor 1242	µg/L	n/v	<sup>GH</sup> <sub>14</sub>	<0.05	-	<0.05	-	-	-	-	-	-	-	-	-	
Aroclor 1248	µg/L	n/v	<sup>GH</sup> <sub>14</sub>	<0.05	-	<0.05	-	-	-	-	-	-	-	-	-	
Aroclor 1254	µg/L	n/v	<sup>GH</sup> <sub>14</sub>	<0.05	-	<0.05	-	-	-	-	-	-	-	-	-	
Aroclor 1260	µg/L	n/v	<sup>GH</sup> <sub>14</sub>	<0.05	-	<0.05	-	-	-	-	-	-	-	-	-	
Polychlorinated Biphenyls (PCBs)	µg/L	3 <sup>B</sup>	0.2 <sup>GH</sup> <sub>14</sub>	<0.05	-	<0.05	-	-	-	-	-	-	-	-	-	

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<b>Semi-Volatile Organic Compounds</b>																
<b>Phthalates</b>																
Bis(2-Ethylhexyl)phthalate (DEHP)	µg/L	n/v	10 <sup>C</sup> 10 <sup>H</sup>	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
Diethyl Phthalate	µg/L	n/v	30 <sup>C</sup> 30 <sup>H</sup>	<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 <sup>C</sup> 30 <sup>H</sup>	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	
<b>Polycyclic Aromatic Hydrocarbons</b>																
Acenaphthene	µg/L	n/v	4.1 <sup>C</sup> 4.1 <sup>H</sup>	<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 <sup>C</sup> 1 <sup>H</sup>	<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 <sup>C</sup> 1 <sup>H</sup>	<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 <sup>C</sup> 1 <sup>H</sup>	<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 <sup>C</sup>	0.01 <sup>C</sup> 0.01 <sup>H</sup>	<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)fluoranthene	µg/L	n/v	0.1 <sup>C</sup> 0.1 <sup>H</sup>	<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 <sup>C</sup> 0.2 <sup>H</sup>	<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 <sup>C</sup> 0.1 <sup>H</sup>	<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 <sup>C</sup> 0.1 <sup>H</sup>	<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 <sup>C</sup> 0.2 <sup>H</sup>	<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 <sup>C</sup> 0.41 <sup>H</sup>	<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 <sup>C</sup> 120 <sup>H</sup>	<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 <sup>C</sup> 0.2 <sup>H</sup>	<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 <sup>C</sup> 3.2 <sup>H</sup>	<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	1 <sup>C</sup> 1 <sup>H</sup>	<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	1 <sup>C</sup> 1 <sup>H</sup>	<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 <sup>C</sup> 11 <sup>H</sup>	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	
Phenanthrene	µg/L	n/v	1 <sup>C</sup> 1 <sup>H</sup>	<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 <sup>C</sup> 4.1 <sup>H</sup>	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	
<b>Remaining Semi-Volatile Organic Compounds</b>																
Biphenyl, 1,1'- (Biphenyl)	µg/L	n/v	0.5 <sup>C</sup> 0.5 <sup>H</sup>	<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 <sup>C</sup> 5 <sup>H</sup>	<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 <sup>C</sup> 120 <sup>H</sup>	<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 <sup>C</sup> 10 <sup>H</sup>	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
Chlorophenol, 2- (ortho-Chlorophenol)	µg/L	n/v	8.9 <sup>C</sup> 8.9 <sup>H</sup>	<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 <sup>C</sup> 0.5 <sup>H</sup>	<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 <sup>C</sup> 0.3 <sup>D</sup>	20 <sup>C</sup> 20 <sup>H</sup>	<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 <sup>C</sup> 59 <sup>H</sup>	<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 <sup>C</sup> 10 <sup>H</sup>	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	
Dinitrotoluene, 2,4-	µg/L	n/v	5 <sup>C</sup> 5 <sup>H</sup>	<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 <sup>C</sup> 5 <sup>H</sup>	<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 <sup>C</sup> 30 <sup>D</sup>	30 <sup>C</sup> 30 <sup>H</sup>	<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 <sup>C</sup> 890 <sup>H</sup>	<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 <sup>C</sup> 70 <sup>H</sup>	<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 <sup>C</sup> 8.9 <sup>H</sup>	<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 <sup>C</sup> 2 <sup>D</sup>	2 <sup>C</sup> 2 <sup>H</sup>	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	

See notes on last page

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

Sample Location	Sample Date	Sample ID	Sampling Company	Laboratory	Laboratory Work Order	Laboratory Sample ID	Filtered	Sample Type	MW7-14				FIELD BLANK		TRIP BLANK	
									26-Apr-17	26-Apr-17	17-Oct-17	17-Oct-17	27-Apr-17	17-Oct-17	27-Apr-17	19-Oct-17
Units	ODWS	Ontario SCS	WG-160900764-20170426-RD-15	WG-160900764-20170426-RD-15A	WG-160900764-20171017-RD08	WG-160900764-20171017-RD08A	Field Filtered Metals	Lab Filtered SVOC	Field Filtered Metals	Lab Filtered SVOC	Field Blank	Field Blank	Trip Blank	Trip Blank		
Acetone	µg/L	n/v	2,700 <sup>C</sup> 2,700 <sup>H</sup>	<10	-	<10	-	<10	<10	<10	<10	<10	<10	<10		
Bromodichloromethane	µg/L	n/v	16 <sup>C</sup> 16 <sup>H</sup>	<0.50	-	<0.50	-	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50		
Bromoform (Tribromomethane)	µg/L	n/v	5 <sup>C</sup> 25 <sup>H</sup>	<1.0	-	<1.0	-	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0		
Bromomethane (Methyl bromide)	µg/L	n/v	0.89 <sup>C</sup> 0.89 <sup>H</sup>	<0.50	-	<0.50	-	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50		
Carbon Tetrachloride (Tetrachloromethane)	µg/L	2 <sup>C</sup>	0.2 <sup>C</sup> 0.79 <sup>H</sup>	<0.20	-	<0.20	-	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20		
Chlorobenzene (Monochlorobenzene)	µg/L	80 <sup>C</sup> 30 <sup>D</sup>	30 <sup>C</sup> 30 <sup>H</sup>	<0.20	-	<0.20	-	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20		
Chloroform (Trichloromethane)	µg/L	n/v	2 <sup>C</sup> 2.4 <sup>H</sup>	<0.20	-	<0.20	-	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20		
Dibromochloromethane	µg/L	n/v	25 <sup>C</sup> 25 <sup>H</sup>	<0.50	-	<0.50	-	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50		
Dichlorobenzene, 1,2-	µg/L	200 <sup>C</sup> 3 <sup>D</sup>	3 <sup>C</sup> 3 <sup>H</sup>	<0.50	-	<0.50	-	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50		
Dichlorobenzene, 1,3-	µg/L	n/v	59 <sup>C</sup> 59 <sup>H</sup>	<0.50	-	<0.50	-	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50		
Dichlorobenzene, 1,4-	µg/L	5 <sup>C</sup> 1 <sup>D</sup>	0.5 <sup>C</sup> 1 <sup>H</sup>	<0.50	-	<0.50	-	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50		
Dichlorodifluoromethane (Freon 12)	µg/L	n/v	590 <sup>C</sup> 590 <sup>H</sup>	<1.0	-	<1.0	-	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0		
Dichloroethane, 1,1-	µg/L	n/v	5 <sup>C</sup> 5 <sup>H</sup>	<0.20	-	<0.20	-	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20		
Dichloroethane, 1,2-	µg/L	5 <sup>B</sup>	0.5 <sup>C</sup> 1.6 <sup>H</sup>	<0.50	-	<0.50	-	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50		
Dichloroethene, 1,1-	µg/L	14 <sup>C</sup>	0.5 <sup>C</sup> 1.6 <sup>H</sup>	<0.20	-	<0.20	-	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20		
Dichloroethene, cis-1,2-	µg/L	n/v	1.6 <sup>C</sup> 1.6 <sup>H</sup>	<0.50	-	<0.50	-	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50		
Dichloroethene, trans-1,2-	µg/L	n/v	1.6 <sup>C</sup> 1.6 <sup>H</sup>	<0.50	-	<0.50	-	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50		
Dichloropropane, 1,2-	µg/L	n/v	0.58 <sup>C</sup> 5 <sup>H</sup>	<0.20	-	<0.20	-	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20		
Dichloropropene, 1,3- (sum of isomers cis + trans)	µg/L	n/v	0.5 <sup>C</sup> 1.1 <sup>H</sup>	<0.50	-	<0.50	-	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50		
Dichloropropene, cis-1,3-	µg/L	n/v	1.1 <sup>C</sup> 1.1 <sup>H</sup>	<0.30	-	<0.30	-	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30		
Dichloropropene, trans-1,3-	µg/L	n/v	1.1 <sup>C</sup> 1.1 <sup>H</sup>	<0.40	-	<0.40	-	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40		
Ethylene Dibromide (Dibromoethane, 1,2-)	µg/L	n/v	0.2 <sup>C</sup> 0.2 <sup>H</sup>	<0.20	-	<0.20	-	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20		
Hexane (n-Hexane)	µg/L	n/v	5 <sup>C</sup> 51 <sup>H</sup>	<1.0	-	<1.0	-	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0		
Methyl Ethyl Ketone (MEK) (2-Butanone)	µg/L	n/v	1,800 <sup>C</sup> 1,800 <sup>H</sup>	<10	-	<10	-	<10	<10	<10	<10	<10	<10	<10		
Methyl Isobutyl Ketone (MIBK)	µg/L	n/v	640 <sup>C</sup> 640 <sup>H</sup>	<5.0	-	<5.0	-	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0		
Methyl tert-butyl ether (MTBE)	µg/L	n/v	15 <sup>C</sup> 15 <sup>H</sup>	<0.50	-	<0.50	-	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50		
Methylene Chloride (Dichloromethane)	µg/L	50 <sup>C</sup>	26 <sup>C</sup> 50 <sup>H</sup>	<2.0	-	<2.0	-	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0		
Styrene	µg/L	n/v	5.4 <sup>C</sup> 5.4 <sup>H</sup>	<0.50	-	<0.50	-	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50		
Tetrachloroethane, 1,1,1,2-	µg/L	n/v	1.1 <sup>C</sup> 1.1 <sup>H</sup>	<0.50	-	<0.50	-	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50		
Tetrachloroethane, 1,1,2,2-	µg/L	n/v	0.5 <sup>C</sup> 1 <sup>H</sup>	<0.50	-	<0.50	-	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50		
Tetrachloroethene (PCE)	µg/L	30 <sup>C</sup>	0.5 <sup>C</sup> 1.6 <sup>H</sup>	<0.20	-	<0.20	-	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20		
Trichloroethane, 1,1,1-	µg/L	n/v	23 <sup>C</sup> 200 <sup>H</sup>	<0.20	-	<0.20	-	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20		
Trichloroethane, 1,1,2-	µg/L	n/v	0.5 <sup>C</sup> 4.7 <sup>H</sup>	<0.50	-	<0.50	-	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50		
Trichloroethene (TCE)	µg/L	5 <sup>C</sup>	0.5 <sup>C</sup> 1.6 <sup>H</sup>	<0.20	-	<0.20	-	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20		
Trichlorofluoromethane (Freon 11)	µg/L	n/v	150 <sup>C</sup> 150 <sup>H</sup>	<0.50	-	<0.50	-	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50		
Trihalomethanes	µg/L	100 <sup>C</sup>	n/v	-	-	<1.0	-	-	-	-	-	-	-	-		
Vinyl Chloride	µg/L	1 <sup>C</sup>	0.5 <sup>C</sup> 0.5 <sup>H</sup>	<0.20	-	<0.20	-	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20		

See notes on last page

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

**Notes:**

ODWS	Technical Support Document for Ontario Drinking Water Standards, Objectives and Guidelines (MOE, 2006, revised January 2017)
A	ODWS Table 1 - Microbiological Standards, Maximum Acceptable Concentration
B	ODWS Table 2 - Chemical Standards, Interim Maximum Acceptable Concentration
C	ODWS Table 2 - Chemical Standards, Maximum Acceptable Concentration
D	ODWS Table 4 - Chemical/Physical Objectives and Guidelines, Aesthetic Objectives
E	ODWS Table 4 - Chemical/Physical Objectives and Guidelines, Operational Guidelines
F	ODWS Table 4 - Medical Officer of Health Reporting Limit
Ontario SCS	Soil, Ground Water and Sediment Standards for Use under Part XV.1 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
<b>6.5<sup>A</sup></b>	Concentration exceeds the indicated standard.
15.2	Measured concentration did not exceed the indicated standard.
<b>&lt;0.50</b>	Laboratory reporting limit was greater than the applicable standard.
<0.03	Analyte was not detected at a concentration greater than the laboratory reporting limit.
n/v	No standard/guideline value.
-	Parameter not analyzed / not available.
b	Where fluoride is added to drinking water, it is recommended that the concentration be adjusted to 0.5 - 0.8 mg/L the optimum level for control of tooth decay. Where supplies contain naturally occurring fluoride at levels higher than 1.5 mg/L but lower than 2.4 mg/L the Ministry of Health and Long Term Care recommends an approach through local boards of health to raise public and professional awareness to control excessive exposure to fluoride from other sources.
c	This standard applies to water at the point of consumption. Since lead is a component in some plumbing systems, first flush water may contain higher concentrations of lead than water that has been flushed for five minutes.
d	Where both nitrate and nitrite are present, the total of the two should not exceed 10 mg/L (as nitrogen).
e	The standard is expressed as a running annual average of quarterly samples measured at a point reflecting the maximum residence time in the distribution system.
f	Refer to ODWS Table 2 for health related standard
<sup>DF</sup> 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.
<sup>GH</sup> n/v	Not applicable.
<sup>DGH</sup> s1	Standard is applicable to total xylenes, and m & p-xylenes and o-xylenes should be summed for comparison.
<sup>GH</sup> 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.
<sup>GH</sup> 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.
<sup>GH</sup> s7	Standard is applicable to PHC in the F1 range minus BTEX.
<sup>GH</sup> 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.
<sup>GH</sup> s10	If baseline is not reached during F4 analysis, then gravimetric analysis is to be performed, and the standard is applied to the higher of the two results.
<sup>GH</sup> s11	Standard is applicable to 1,3-Dichloropropene, and the individual isomers (cis + trans) should be added for comparison.
<sup>GH</sup> 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.
<sup>GH</sup> s14	Standard is applicable to total PCBs, and the individual Aroclors should be added for comparison.
<sup>GH</sup> 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.

**Table 5**  
**Summary of Groundwater Analytical Results - Private Wells**  
**Clarington Transformer Station**  
**Hydro One Networks Inc.**

Sample Location Aquifer Unit Sample Date			PW-01		PW-02			PW-03	
			Shallow Overburden	Shallow Overburden	Other/Unconfirmed			Shallow Overburden	
Sample ID			24-Apr-17	18-Oct-17	26-Apr-17	18-Oct-17	18-Oct-17	26-Apr-17	18-Oct-17
Water Type			WG-160900764-20170424-JK8	WG-160900764-20171018-JK21	WG-160900764-20170426-JK24	WG-160900764-20171018-JK23	WG-160900764-20171018-JK24	WG-160900764-20170426-JK23	WG-160900764-20171018-JK22
Sample Tap			Raw Outside (Back house)	Raw Outside (Back House)	Raw Inside (Basement)	Treated Outside (Back house) Softener / Charcoal Filter / UV	Raw Inside (Basement)	Raw Outside (Barn)	Raw Outside (Barn)
Treatment Type			None	None	None	None	None	None	None
Sampling Company			STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC
Laboratory			MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX
Laboratory Work Order			B781996	B7N2030	B782997	B7N2030	B7N2030	B782997	B7N2030
Laboratory Sample ID			EGP450	FJE418	EGU147	FJE420	FJE421	EGU146	FJE419
Filtered	Units	ODWS	Total Metals	Total Metals	Total Metals	Total Metals	Total Metals	Total Metals	Total Metals
<b>General Chemistry</b>									
Acidity	mg/L	n/v	48	27	47	25	19	46	19
Alkalinity, Bicarbonate (as CaCO3)	mg/L	n/v	310	310	310	310	310	340	330
Alkalinity, Carbonate (as CaCO3)	mg/L	n/v	2.0	2.3	1.7	2.4	2.3	1.9	2.4
Alkalinity, Total (as CaCO3)	mg/L	30-500 <sup>E</sup>	310	320	310	310	310	340	340
Ammonia (as N)	mg/L	n/v	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Anion Sum	me/L	n/v	7.12	7.22	9.73	9.23	9.21	9.17	8.77
Cation Sum	me/L	n/v	7.03	6.95	9.55	8.88	8.71	9.12	8.70
Chloride	mg/L	250 <sup>D</sup>	12	11	97	76	75	63	44
Cyanide (Free)	µg/L	200 <sup>B</sup>	<1	<1	<1	<1	<1	<1	<1
Dissolved Organic Carbon (DOC)	mg/L	5 <sup>D</sup>	0.89	0.95	0.93	0.87	0.87	1.2	1.4
Electrical Conductivity, Lab	µmhos/cm	n/v	670	650	950	850	850	890	810
Fluoride	mg/L	1.5 <sup>B</sup>	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Hardness (as CaCO3)	mg/L	80-100 <sup>E</sup>	340 <sup>E</sup>	330 <sup>E</sup>	400 <sup>E</sup>	390 <sup>E</sup>	380 <sup>E</sup>	390 <sup>E</sup>	380 <sup>E</sup>
Ion Balance	%	n/v	0.680	1.93	0.920	1.93	2.80	0.290	0.430
Langelier Index (at 20 C)	none	n/v	0.958	1.02	0.876	1.00	0.973	0.954	1.09
Langelier Index (at 4 C)	none	n/v	0.710	0.774	0.628	0.754	0.725	0.706	0.837
Nitrate (as N)	mg/L	10.0 <sup>B</sup>	3.59	4.00	0.72	1.25	1.31	2.92	3.53
Nitrate + Nitrite (as N)	mg/L	10.0 <sup>B</sup>	3.59	4	0.72	1.25	1.31	2.92	3.53
Nitrite (as N)	mg/L	1.0 <sup>B</sup>	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Orthophosphate(as P)	mg/L	n/v	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
pH	S.U.	6.5-8.5 <sup>E</sup>	7.84	7.89	7.78	7.93	7.90	7.77	7.89
Saturation pH (at 20 C)	none	n/v	6.88	6.87	6.90	6.92	6.93	6.82	6.80
Saturation pH (at 4 C)	none	n/v	7.13	7.12	7.15	7.17	7.18	7.06	7.05
Sulfate	mg/L	500 <sup>D</sup>	16	15	37	37	37	21	27
Total Dissolved Solids	mg/L	500 <sup>D</sup>	372	355	536 <sup>D</sup>	485	475	516 <sup>D</sup>	440
Total Organic Carbon	mg/L	n/v	0.77	0.99	0.65	0.81	0.84	1.1	1.5
Total Suspended Solids	mg/L	n/v	<10	<10	<10	<10	<10	<10	<10
Turbidity, Lab	NTU	5 <sup>D</sup>	<0.1	<0.1	0.6	0.9	0.8	1.0	2.6
<b>Metals</b>									
Aluminum	µg/L	100 <sup>E</sup>	<5.0	<5	<5.0	<5	<5	18	35
Antimony	µg/L	6 <sup>C</sup>	<0.50	<0.5	<0.50	<0.5	<0.5	<0.50	<0.5
Arsenic	µg/L	25 <sup>C</sup>	<1.0	<1	<1.0	<1	<1	<1.0	<1
Barium	µg/L	1,000 <sup>B</sup>	42	43	67	63	62	52	52
Beryllium	µg/L	n/v	<0.50	<0.5	<0.50	<0.5	<0.5	<0.50	<0.5
Boron	µg/L	5,000 <sup>C</sup>	<10	10	<10	10	10	13	16
Cadmium	µg/L	5 <sup>B</sup>	<0.10	<0.1	<0.10	<0.1	<0.1	<0.10	<0.1
Calcium	µg/L	n/v	120,000	120,000	120,000	110,000	110,000	130,000	130,000
Chromium	µg/L	50 <sup>B</sup>	<5.0	<5	<5.0	<5	<5	<5.0	<5
Chromium (Hexavalent)	µg/L	n/v	0.51	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Cobalt	µg/L	n/v	<0.50	<0.5	<0.50	<0.5	<0.5	<0.50	<0.5
Copper	µg/L	1,000 <sup>D</sup>	6.7	7.2	6.0	7.3	3.9	<1.0	<1
Iron	µg/L	300 <sup>D</sup>	<100	<100	780 <sup>D</sup>	340 <sup>D</sup>	220	<100	<100
Lead	µg/L	10 <sup>C</sup>	<0.50	<0.5	<0.50	<0.5	0.92	<0.50	<0.5
Magnesium	µg/L	n/v	11,000	10,000	25,000	26,000	26,000	13,000	12,000
Manganese	µg/L	50 <sup>D</sup>	<2.0	<2	6.9	5.4	3.9	4.6	59 <sup>D</sup>
Mercury	µg/L	1 <sup>B</sup>	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Molybdenum	µg/L	n/v	<0.50	<0.5	<0.50	<0.5	<0.5	<0.50	<0.5
Nickel	µg/L	n/v	<1.0	<1	<1.0	<1	<1	<1.0	<1
Phosphorus	µg/L	n/v	<100	<100	<100	<100	<100	<100	<100
Potassium	µg/L	n/v	930	1,000	1,900	1,900	1,900	1,100	1,300
Selenium	µg/L	50 <sup>B</sup>	<2.0	<2	<2.0	<2	<2	<2.0	<2
Silicon	µg/L	n/v	5,600	5,900	6,400	6,200	6,100	5,300	5,900
Silver	µg/L	n/v	<0.10	<0.1	<0.10	<0.1	<0.1	<0.10	<0.1
Sodium	µg/L	200,000 <sup>D</sup> 20,000 <sup>G</sup>	6,100	6,600	32,000 <sup>F</sup>	24,000 <sup>F</sup>	24,000 <sup>F</sup>	31,000 <sup>F</sup>	23,000 <sup>F</sup>
Strontium	µg/L	n/v	200	210	260	260	260	230	250
Thallium	µg/L	n/v	<0.050	<0.05	<0.050	<0.05	<0.05	<0.050	<0.05
Titanium	µg/L	n/v	<5.0	<5	<5.0	<5	<5	<5.0	<5
Uranium	µg/L	20 <sup>B</sup>	0.61	0.58	13	14	15	0.98	0.99
Vanadium	µg/L	n/v	<0.50	<0.5	<0.50	<0.5	<0.5	<0.50	<0.5
Zinc	µg/L	5,000 <sup>D</sup>	<5.0	<5	13	11	5.9	<5.0	<5
Zirconium	µg/L	n/v	<1.0	<1	<1.0	<1	<1	<1.0	<1
<b>Microbiological Analysis</b>									
Escherichia coli (E.Coli)	cfu/100mL	0 <sup>A</sup>	0	0	0	0	0	0	1 <sup>A</sup>
Total Coliform Background	cfu/100mL	n/v	39	9	0	0	0	38	670
Total Coliforms	cfu/100mL	0 <sup>A</sup>	0	0	0	0	0	1 <sup>A</sup>	66 <sup>A</sup>
<b>BTEX and Petroleum Hydrocarbons</b>									
Benzene	µg/L	1 <sup>B</sup>	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Toluene	µg/L	60 <sup>B</sup> 24 <sup>D</sup>	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Ethylbenzene	µg/L	140 <sup>B</sup> 1.6 <sup>D</sup>	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Xylene, m & p-	µg/L	300 <sup>B</sup> 1 <sup>D</sup>	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Xylene, o-	µg/L	300 <sup>B</sup> 1 <sup>D</sup>	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Xylenes, Total	µg/L	90 <sup>B</sup> 20 <sup>D</sup>	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
PHC F1 (C6-C10 range)	µg/L	n/v	<25	<25	<25	<25	<25	<25	<25
PHC F1 (C6-C10 range) minus BTEX	µg/L	n/v	<25	<25	<25	<25	<25	<25	<25
PHC F2 (>C10-C16 range)	µg/L	n/v	<100	<100	150	<100	<100	<100	<100
PHC F3 (>C16-C34 range)	µg/L	n/v	<200	<200	<200	<200	<200	<200	<200
PHC F4 (>C34-C50 range)	µg/L	n/v	<200	<200	<200	<200	<200	<200	<200
Chromatogram to baseline at C50	none	n/v	YES	YES	YES	YES	YES	YES	YES
<b>Polychlorinated Biphenyls</b>									
Aroclor 1242	µg/L	n/v	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Aroclor 1248	µg/L	n/v	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Aroclor 1254	µg/L	n/v	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Aroclor 1260	µg/L	n/v	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Polychlorinated Biphenyls (PCBs)	µg/L	3 <sup>C</sup>	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05

See notes on last page

**Table 2**  
**Summary of Groundwater Analytical Results - Private Wells**  
**Clarington Transformer Station**  
**Hydro One Networks Inc.**

Sample Location Aquifer Unit Sample Date			PW-01		PW-02			PW-03	
			Shallow Overburden		Other/Unconfirmed			Shallow Overburden	
			24-Apr-17	18-Oct-17	26-Apr-17	18-Oct-17	18-Oct-17	26-Apr-17	18-Oct-17
Sample ID			WG-160900764-20170424-JK8	WG-160900764-20171018-JK21	WG-160900764-20170426-JK24	WG-160900764-20171018-JK23	WG-160900764-20171018-JK24	WG-160900764-20170426-JK23	WG-160900764-20171018-JK22
Water Type			Raw Outside (Back house)	Raw Outside (Back House)	Raw Inside (Basement)	Treated Outside (Back house) Softener / Charcoal Filter / UV	Raw Inside (Basement)	Raw Outside (Barn)	Raw Outside (Barn)
Sample Tap									
Treatment Type			None	None	None		None	None	None
Sampling Company			STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC
Laboratory			MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX
Laboratory Work Order			B781996	B7N2030	B782997	B7N2030	B7N2030	B782997	B7N2030
Laboratory Sample ID			EGP450	FJE418	EGU147	FJE420	FJE421	EGU146	FJE419
Filtered	Units	ODWS	Total Metals	Total Metals	Total Metals	Total Metals	Total Metals	Total Metals	Total Metals
<b>Semi-Volatile Organic Compounds</b>									
Acenaphthene	µg/L	n/v	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Acenaphthylene	µg/L	n/v	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Anthracene	µg/L	n/v	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(a)anthracene	µg/L	n/v	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(a)pyrene	µg/L	0.01 <sup>B</sup>	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Benzo(b,j)fluoranthene	µg/L	n/v	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(g,h,i)perylene	µg/L	n/v	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(k)fluoranthene	µg/L	n/v	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Biphenyl, 1,1'- (Biphenyl)	µg/L	n/v	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Bis(2-Chloroethyl)ether	µg/L	n/v	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Bis(2-Chloroisopropyl)ether	µg/L	n/v	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Bis(2-Ethylhexyl)phthalate (DEHP)	µg/L	n/v	<1	<1	<1	<1	<1	<1	<1
Chloroaniline, 4-	µg/L	n/v	<1	<1	<1	<1	<1	<1	<1
Chlorophenol, 2- (ortho-Chlorophenol)	µg/L	n/v	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Chrysene	µg/L	n/v	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Dibenzo(a,h)anthracene	µg/L	n/v	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dichlorobenzidine, 3,3'-	µg/L	n/v	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Dichlorophenol, 2,4-	µg/L	900 <sup>B</sup> 0.3 <sup>D</sup>	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Diethyl Phthalate	µg/L	n/v	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dimethyl Phthalate	µg/L	n/v	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dimethylphenol, 2,4-	µg/L	n/v	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Dinitrophenol, 2,4-	µg/L	n/v	<2	<2	<2	<2	<2	<2	<2
Dinitrotoluene, 2,4-	µg/L	n/v	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Dinitrotoluene, 2,6-	µg/L	n/v	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Fluoranthene	µg/L	n/v	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Fluorene	µg/L	n/v	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Indeno(1,2,3-cd)pyrene	µg/L	n/v	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Methylnaphthalene (Total)	µg/L	n/v	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28
Methylnaphthalene, 1-	µg/L	n/v	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Methylnaphthalene, 2-	µg/L	n/v	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Naphthalene	µg/L	n/v	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Pentachlorophenol	µg/L	60 <sup>B</sup> 30 <sup>D</sup>	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	µg/L	n/v	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Phenol	µg/L	n/v	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Pyrene	µg/L	n/v	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Trichlorobenzene, 1,2,4-	µg/L	n/v	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Trichlorophenol, 2,4,5-	µg/L	n/v	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Trichlorophenol, 2,4,6-	µg/L	5 <sup>B</sup> 2 <sup>D</sup>	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
<b>Volatile Organic Compounds</b>									
Acetone	µg/L	n/v	<10	<10	<10	<10	<10	<10	<10
Bromodichloromethane	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Bromoform (Tribromomethane)	µg/L	n/v	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromomethane (Methyl bromide)	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Carbon Tetrachloride (Tetrachloromethane)	µg/L	2 <sup>B</sup>	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Chlorobenzene (Monochlorobenzene)	µg/L	80 <sup>B</sup> 30 <sup>D</sup>	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Chloroform (Trichloromethane)	µg/L	n/v	<0.20	0.91	<0.20	<0.20	<0.20	<0.20	<0.20
Dibromochloromethane	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Dichlorobenzene, 1,2-	µg/L	200 <sup>B</sup> 3 <sup>D</sup>	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Dichlorobenzene, 1,3-	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Dichlorobenzene, 1,4-	µg/L	5 <sup>B</sup> 1 <sup>D</sup>	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Dichlorodifluoromethane (Freon 12)	µg/L	n/v	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Dichloroethane, 1,1-	µg/L	n/v	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Dichloroethane, 1,2-	µg/L	5 <sup>C</sup>	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Dichloroethene, 1,1-	µg/L	14 <sup>B</sup>	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Dichloroethene, cis-1,2-	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Dichloroethene, trans-1,2-	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Dichloropropane, 1,2-	µg/L	n/v	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Dichloropropene, 1,3- (sum of isomers cis + trans)	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Dichloropropene, cis-1,3-	µg/L	n/v	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
Dichloropropene, trans-1,3-	µg/L	n/v	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40
Ethylene Dibromide (Dibromoethane, 1,2-)	µg/L	n/v	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Hexane (n-Hexane)	µg/L	n/v	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Methyl Ethyl Ketone (MEK) (2-Butanone)	µg/L	n/v	<10	<10	<10	<10	<10	<10	<10
Methyl Isobutyl Ketone (MIBK)	µg/L	n/v	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Methyl tert-butyl ether (MTBE)	µg/L	15 <sup>D</sup>	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Methylene Chloride (Dichloromethane)	µg/L	50 <sup>B</sup>	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Styrene	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Tetrachloroethane, 1,1,1,2-	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Tetrachloroethane, 1,1,2,2-	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Tetrachloroethene (PCE)	µg/L	10 <sup>B</sup>	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Trichloroethane, 1,1,1-	µg/L	n/v	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Trichloroethane, 1,1,2-	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Trichloroethene (TCE)	µg/L	5 <sup>B</sup>	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Trichlorofluoromethane (Freon 11)	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Trihalomethanes	µg/L	100 <sup>B</sup>	<0.20	0.91	<0.20	<1.0	-	<0.20	<1.0
Vinyl Chloride	µg/L	1 <sup>B</sup>	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20

See notes on last page

**Table 2**  
**Summary of Groundwater Analytical Results - Private Wells**  
**Clarington Transformer Station**  
**Hydro One Networks Inc.**

Sample Location	Aquifer Unit	Sample Date	PW-04		PW-05		PW-06		PW-08	
			Other/Unconfirmed	Other/Unconfirmed	Thorncliffe Formation	Thorncliffe Formation	Thorncliffe Formation	Thorncliffe Formation	Shallow Overburden	Shallow Overburden
Sample ID			25-Apr-17	17-Oct-17	25-Apr-17	18-Oct-17	24-Apr-17	17-Oct-17	25-Apr-17	16-Oct-17
Water Type			WG-160900764-20170425-JK17	WG-160900764-20171017-JK16	WG-160900764-20170425-JK14	WG-160900764-20171018-JK19	WG-160900764-20170424-JK3	WG-160900764-20171017-JK17	WG-160900764-20170425-JK12	WG-160900764-20171016-JK8
Sample Tap			Raw Outside (Back house)	Raw Outside (Back house)	Raw Outside (Driveway)	Raw Outside (Driveway)	Raw Inside (Kitchen)	Raw Inside (Kitchen)	Treated Inside (Kitchen)	Treated Inside (Kitchen)
Treatment Type			None	None	None	None	None	None	Softener	Softener
Sampling Company			STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC
Laboratory			MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX
Laboratory Work Order			B783174	B7N0778	B783174	B7N2030	B781996	B7N0778	B783174	B7M9357
Laboratory Sample ID			EGU903	FIX856	EGU900	FJE416	EGP445	FIX857	EGU898	FIP278
Filtered	Units	ODWS	Total Metals	Total Metals	Total Metals	Total Metals	Total Metals	Total Metals	Total Metals	Total Metals
<b>General Chemistry</b>										
Acidity	mg/L	n/v	46	30	12	<5.0	<10	<5.0	22	24
Alkalinity, Bicarbonate (as CaCO3)	mg/L	n/v	330	310	180	180	140	150	220	270
Alkalinity, Carbonate (as CaCO3)	mg/L	n/v	1.9	1.6	1.8	2.1	2.0	2.2	1.6	1.9
Alkalinity, Total (as CaCO3)	mg/L	30-500 <sup>E</sup>	330	310	190	190	140	150	230	270
Ammonia (as N)	mg/L	n/v	<0.050	<0.050	0.079	0.083	0.21	0.22	<0.050	0.11
Anion Sum	me/L	n/v	8.27	8.39	3.98	4.02	3.12	3.26	13.0	18.7
Cation Sum	me/L	n/v	8.28	8.22	3.92	3.80	3.01	3.10	14.0	17.9
Chloride	mg/L	250 <sup>D</sup>	14	19	1.7	1.6	1.8	2.0	270 <sup>D</sup>	450 <sup>D</sup>
Cyanide (Free)	µg/L	200 <sup>B</sup>	<1	<1	<1	<1	<1	<1	<1	<1
Dissolved Organic Carbon (DOC)	mg/L	5 <sup>D</sup>	1.2	0.76	0.71	0.80	0.58	0.69	1.0	0.93
Electrical Conductivity, Lab	µmhos/cm	n/v	800	750	370	350	280	280	1,500	1,900
Fluoride	mg/L	1.5 <sup>B</sup>	<0.10	<0.10	0.15	0.15	0.21	0.21	<0.10	<0.10
Hardness (as CaCO3)	mg/L	80-100 <sup>E</sup>	380 <sup>E</sup>	380 <sup>E</sup>	180 <sup>E</sup>	170 <sup>E</sup>	120 <sup>E</sup>	120 <sup>E</sup>	43 <sup>E</sup>	370 <sup>E</sup>
Ion Balance	%	n/v	0.0900	1.01	0.820	2.81	1.75	2.66	3.97	2.22
Langelier Index (at 20 C)	none	n/v	0.906	0.838	0.554	0.616	0.280	0.343	-0.525	0.708
Langelier Index (at 4 C)	none	n/v	0.658	0.589	0.304	0.366	0.0300	0.0930	-0.772	0.462
Nitrate (as N)	mg/L	10.0 <sup>B</sup>	6.39	8.06	<0.10	<0.10	<0.10	<0.10	1.06	<0.10
Nitrate + Nitrite (as N)	mg/L	10.0 <sup>B</sup>	6.39	8.06	<0.10	<0.10	<0.10	<0.10	1.06	<0.10
Nitrite (as N)	mg/L	1.0 <sup>B</sup>	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Orthophosphate (as P)	mg/L	n/v	<0.010	<0.010	<0.010	<0.010	0.016	0.014	<0.010	<0.010
pH	S.U.	6.5-8.5 <sup>E</sup>	7.79	7.75	8.02	8.09	8.17	8.20	7.87	7.87
Saturation pH (at 20 C)	none	n/v	6.89	6.91	7.47	7.48	7.89	7.85	8.39	7.16
Saturation pH (at 4 C)	none	n/v	7.14	7.16	7.72	7.73	8.14	8.10	8.64	7.41
Sulfate	mg/L	500 <sup>D</sup>	39	52	11	11	8.2	10	30	36
Total Dissolved Solids	mg/L	500 <sup>D</sup>	482	450	226	195	144	155	810 <sup>D</sup>	980 <sup>D</sup>
Total Organic Carbon	mg/L	n/v	1.1	1.2	0.58	0.79	0.56	0.75	0.91	0.98
Total Suspended Solids	mg/L	n/v	<10	<10	<10	<10	<10	<10	<10	<10
Turbidity, Lab	NTU	5 <sup>D</sup>	<0.1	<0.1	9.3 <sup>D</sup>	6.3 <sup>D</sup>	1.4	0.7	0.1	<0.1
<b>Metals</b>										
Aluminum	µg/L	100 <sup>E</sup>	<5.0	<5	<5.0	<5	<5.0	<5	<5.0	<5
Antimony	µg/L	6 <sup>C</sup>	<0.50	<0.5	<0.50	<0.5	<0.50	<0.5	<0.50	<0.5
Arsenic	µg/L	25 <sup>C</sup>	<1.0	<1	<1.0	<1	<1.0	<1	<1.0	<1
Barium	µg/L	1,000 <sup>B</sup>	110	110	160	160	96	100	15	120
Beryllium	µg/L	n/v	<0.50	<0.5	<0.50	<0.5	<0.50	<0.5	<0.50	<0.5
Boron	µg/L	5,000 <sup>C</sup>	11	15	19	18	47	45	28	21
Cadmium	µg/L	5 <sup>B</sup>	<0.10	<0.1	<0.10	<0.1	<0.10	<0.1	<0.10	<0.1
Calcium	µg/L	n/v	110,000	110,000	46,000	43,000	21,000	22,000	6,000	90,000
Chromium	µg/L	50 <sup>B</sup>	<5.0	<5	<5.0	<5	<5.0	<5	<5.0	<5
Chromium (Hexavalent)	µg/L	n/v	0.78	<2.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Cobalt	µg/L	n/v	<0.50	<0.5	<0.50	<0.5	<0.50	<0.5	<0.50	<0.5
Copper	µg/L	1,000 <sup>D</sup>	13	6.4	1.3	4.1	1.7	<1	29	30
Iron	µg/L	300 <sup>D</sup>	<100	<100	1,300 <sup>D</sup>	1,100 <sup>D</sup>	430 <sup>D</sup>	350 <sup>D</sup>	<100	<100
Lead	µg/L	10 <sup>C</sup>	0.90	1.1	<0.50	<0.5	<0.50	<0.5	<0.50	<0.5
Magnesium	µg/L	n/v	23,000	24,000	15,000	16,000	16,000	16,000	6,800	36,000
Manganese	µg/L	50 <sup>D</sup>	<2.0	<2	20	16	9.3	8.2	3.0	30
Mercury	µg/L	1 <sup>B</sup>	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Molybdenum	µg/L	n/v	<0.50	<0.5	0.72	0.73	0.73	0.75	0.61	0.51
Nickel	µg/L	n/v	<1.0	<1	<1.0	<1	<1.0	<1	<1.0	1.2
Phosphorus	µg/L	n/v	<100	<100	<100	<100	<100	<100	<100	<100
Potassium	µg/L	n/v	9,400	9,300	1,000	970	560	540	520	2,800
Selenium	µg/L	50 <sup>B</sup>	<2.0	<2	<2.0	<2	<2.0	<2	<2.0	<2
Silicon	µg/L	n/v	7,700	8,400	12,000	11,000	7,700	8,000	6,600	8,000
Silver	µg/L	n/v	<0.10	<0.1	<0.10	<0.1	<0.10	<0.1	<0.10	<0.1
Sodium	µg/L	200,000 <sup>D</sup> 20,000 <sup>F</sup>	10,000	9,300	6,800	6,700	10,000	14,000	300,000 <sup>DF</sup>	240,000 <sup>DF</sup>
Strontium	µg/L	n/v	270	290	230	240	350	370	29	430
Thallium	µg/L	n/v	<0.050	<0.05	<0.050	<0.05	<0.050	<0.05	<0.050	<0.05
Titanium	µg/L	n/v	<5.0	<5	<5.0	<5	<5.0	<5	<5.0	<5
Uranium	µg/L	20 <sup>B</sup>	1.2	1.1	<0.10	<0.1	<0.10	<0.1	0.34	0.18
Vanadium	µg/L	n/v	<0.50	<0.5	<0.50	<0.5	<0.50	<0.5	<0.50	<0.5
Zinc	µg/L	5,000 <sup>D</sup>	110	140	<5.0	<5	<5.0	<5	10	390
Zirconium	µg/L	n/v	<1.0	<1	<1.0	<1	<1.0	<1	<1.0	<1
<b>Microbiological Analysis</b>										
Escherichia coli (E.Coli)	cfu/100mL	0 <sup>A</sup>	0	0	0	0	0	0	0	0
Total Coliform Background	cfu/100mL	n/v	0	0	76	8	0	4	4	21
Total Coliforms	cfu/100mL	0 <sup>A</sup>	0	0	36 <sup>A</sup>	1 <sup>A</sup>	0	0	1 <sup>A</sup>	2 <sup>A</sup>
<b>BTEX and Petroleum Hydrocarbons</b>										
Benzene	µg/L	1 <sup>B</sup>	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Toluene	µg/L	60 <sup>B</sup> 24 <sup>D</sup>	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Ethylbenzene	µg/L	140 <sup>B</sup> 1.6 <sup>D</sup>	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Xylene, m & p-	µg/L	300 <sup>B</sup> 1 <sup>D</sup>	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Xylene, o-	µg/L	300 <sup>B</sup> 1 <sup>D</sup>	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Xylenes, Total	µg/L	90 <sup>B</sup> 20 <sup>D</sup>	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
PHC F1 (C6-C10 range)	µg/L	n/v	<25	<25	<25	<25	<25	<25	<25	<25
PHC F1 (C6-C10 range) minus BTEX	µg/L	n/v	<25	<25	<25	<25	<25	<25	<25	<25
PHC F2 (>C10-C16 range)	µg/L	n/v	<100	<100	<100	<100	<100	<100	<100	<100
PHC F3 (>C16-C34 range)	µg/L	n/v	<200	<200	<200	<200	<200	<200	<200	<200
PHC F4 (>C34-C50 range)	µg/L	n/v	<200	<200	<200	<200	<200	<200	<200	<200
Chromatogram to baseline at C50	none	n/v	YES	YES	YES	YES	YES	YES	YES	YES
<b>Polychlorinated Biphenyls</b>										
Aroclor 1242	µg/L	n/v	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Aroclor 1248	µg/L	n/v	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Aroclor 1254	µg/L	n/v	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Aroclor 1260	µg/L	n/v	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Polychlorinated Biphenyls (PCBs)	µg/L	3 <sup>C</sup>	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05

See notes on last page



**Table 2**  
**Summary of Groundwater Analytical Results - Private Wells**  
**Clarington Transformer Station**  
**Hydro One Networks Inc.**

Sample Location Aquifer Unit Sample Date			PW-04 Other/Unconfirmed		PW-05 Thornccliffe Formation		PW-06 Thornccliffe Formation		PW-08 Shallow Overburden	
			25-Apr-17	17-Oct-17	25-Apr-17	18-Oct-17	24-Apr-17	17-Oct-17	25-Apr-17	16-Oct-17
Sample ID			WG-160900764- 20170425-JK17	WG-160900764- 20171017-JK16	WG-160900764- 20170425-JK14	WG-160900764- 20171018-JK19	WG-160900764- 20170424-JK3	WG-160900764- 20171017-JK17	WG-160900764- 20170425-JK12	WG-160900764- 20171016-JK8
Water Type			Raw Outside (Back house)	Raw Outside (Back house)	Raw Outside (Driveway)	Raw Outside (Driveway)	Raw Inside (Kitchen)	Raw Inside (Kitchen)	Treated Inside (Kitchen)	Treated Inside (Kitchen)
Sample Tap										
Treatment Type			None	None	None	None	None	None	Softener	Softener
Sampling Company			STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC
Laboratory			MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX
Laboratory Work Order			B783174	B7N0778	B783174	B7N2030	B781996	B7N0778	B783174	B7M9357
Laboratory Sample ID			EGU903	FIX856	EGU900	FJE416	EGP445	FIX857	EGU898	FIP278
Filtered		Units	Total Metals	Total Metals	Total Metals	Total Metals	Total Metals	Total Metals	Total Metals	Total Metals
		ODWS								
<b>Semi-Volatile Organic Compounds</b>										
Acenaphthene	µg/L	n/v	<0.2	<1	<0.2	<0.2	<0.2	<1	<0.2	<0.2
Acenaphthylene	µg/L	n/v	<0.2	<1	<0.2	<0.2	<0.2	<1	<0.2	<0.2
Anthracene	µg/L	n/v	<0.05	<0.3	<0.05	<0.05	<0.05	<0.3	<0.05	<0.05
Benzo(a)anthracene	µg/L	n/v	<0.05	<0.3	<0.05	<0.05	<0.05	<0.3	<0.05	<0.05
Benzo(a)pyrene	µg/L	0.01 <sup>B</sup>	<0.01	<0.05	<0.01	<0.01	<0.01	<0.05	<0.01	<0.01
Benzo(b,j)fluoranthene	µg/L	n/v	<0.05	<0.3	<0.05	<0.05	<0.05	<0.3	<0.05	<0.05
Benzo(g,h,i)perylene	µg/L	n/v	<0.05	<0.3	<0.05	<0.05	<0.05	<0.3	<0.05	<0.05
Benzo(k)fluoranthene	µg/L	n/v	<0.05	<0.3	<0.05	<0.05	<0.05	<0.3	<0.05	<0.05
Biphenyl, 1,1'- (Biphenyl)	µg/L	n/v	<0.1	<0.5	<0.1	<0.1	<0.1	<0.5	<0.1	<0.1
Bis(2-Chloroethyl)ether	µg/L	n/v	<0.5	<3	<0.5	<0.5	<0.5	<3	<0.5	<0.5
Bis(2-Chloroisopropyl)ether	µg/L	n/v	<0.5	<3	<0.5	<0.5	<0.5	<3	<0.5	<0.5
Bis(2-Ethylhexyl)phthalate (DEHP)	µg/L	n/v	<1	<5	<1	<1	<1	<5	2	<1
Chloroaniline, 4-	µg/L	n/v	<1	<5	<1	<1	<1	<5	<1	<1
Chlorophenol, 2- (ortho-Chlorophenol)	µg/L	n/v	<0.1	<0.5	<0.1	<0.1	<0.1	<0.5	<0.1	<0.1
Chrysene	µg/L	n/v	<0.05	<0.3	<0.05	<0.05	<0.05	<0.3	<0.05	<0.05
Dibenzo(a,h)anthracene	µg/L	n/v	<0.1	<0.5	<0.1	<0.1	<0.1	<0.5	<0.1	<0.1
Dichlorobenzidine, 3,3'-	µg/L	n/v	<0.5	<3	<0.5	<0.5	<0.5	<3	<0.5	<0.5
Dichlorophenol, 2,4-	µg/L	900 <sup>B</sup> 0.3 <sup>D</sup>	<0.1	<0.5	<0.1	<0.1	<0.1	<0.5	<0.1	<0.1
Diethyl Phthalate	µg/L	n/v	0.1	<0.5	<0.1	<0.1	<0.1	<0.5	0.1	<0.1
Dimethyl Phthalate	µg/L	n/v	<0.1	<0.5	<0.1	<0.1	<0.1	<0.5	<0.1	<0.1
Dimethylphenol, 2,4-	µg/L	n/v	<0.5	<3	<0.5	<0.5	<0.5	<3	<0.5	<0.5
Dinitrophenol, 2,4-	µg/L	n/v	<2	<10	<2	<2	<2	<10	<2	<2
Dinitrotoluene, 2,4-	µg/L	n/v	<0.3	<1	<0.3	<0.3	<0.3	<1	<0.3	<0.3
Dinitrotoluene, 2,6-	µg/L	n/v	<0.3	<1	<0.3	<0.3	<0.3	<1	<0.3	<0.3
Fluoranthene	µg/L	n/v	<0.2	<1	<0.2	<0.2	<0.2	<1	<0.2	<0.2
Fluorene	µg/L	n/v	<0.2	<1	<0.2	<0.2	<0.2	<1	<0.2	<0.2
Indeno(1,2,3-cd)pyrene	µg/L	n/v	<0.1	<0.5	<0.1	<0.1	<0.1	<0.5	<0.1	<0.1
Methylnaphthalene (Total)	µg/L	n/v	<0.28	<1.4	<0.28	<0.28	<0.28	<1.4	<0.28	<0.28
Methylnaphthalene, 1-	µg/L	n/v	<0.2	<1	<0.2	<0.2	<0.2	<1	<0.2	<0.2
Methylnaphthalene, 2-	µg/L	n/v	<0.2	<1	<0.2	<0.2	<0.2	<1	<0.2	<0.2
Naphthalene	µg/L	n/v	<0.2	<1	<0.2	<0.2	<0.2	<1	<0.2	<0.2
Pentachlorophenol	µg/L	60 <sup>B</sup> 30 <sup>D</sup>	<0.1	<0.5	<0.1	<0.1	<0.1	<0.5	<0.1	<0.1
Phenanthrene	µg/L	n/v	<0.1	<0.5	<0.1	<0.1	<0.1	<0.5	<0.1	<0.1
Phenol	µg/L	n/v	<0.5	<3	<0.5	<0.5	<0.5	<3	<0.5	<0.5
Pyrene	µg/L	n/v	<0.05	<0.3	<0.05	<0.05	<0.05	<0.3	<0.05	<0.05
Trichlorobenzene, 1,2,4-	µg/L	n/v	<0.1	<0.5	<0.1	<0.1	<0.1	<0.5	<0.1	<0.1
Trichlorophenol, 2,4,5-	µg/L	n/v	<0.2	<1	<0.2	<0.2	<0.2	<1	<0.2	<0.2
Trichlorophenol, 2,4,6-	µg/L	5 <sup>B</sup> 2 <sup>D</sup>	<0.2	<1	<0.2	<0.2	<0.2	<1	<0.2	<0.2
<b>Volatile Organic Compounds</b>										
Acetone	µg/L	n/v	<10	<10	<10	<10	<10	<10	<10	<10
Bromodichloromethane	µg/L	n/v	<0.50	3.8	<0.50	<0.50	<0.50	<0.50	<0.50	3.1
Bromoform (Tribromomethane)	µg/L	n/v	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromomethane (Methyl bromide)	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Carbon Tetrachloride (Tetrachloromethane)	µg/L	2 <sup>B</sup>	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Chlorobenzene (Monochlorobenzene)	µg/L	80 <sup>B</sup> 30 <sup>D</sup>	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Chloroform (Trichloromethane)	µg/L	n/v	0.35	11	<0.20	<0.20	<0.20	<0.20	2.0	3.8
Dibromochloromethane	µg/L	n/v	<0.50	2.1	<0.50	<0.50	<0.50	<0.50	<0.50	2.9
Dichlorobenzene, 1,2-	µg/L	200 <sup>B</sup> 3 <sup>D</sup>	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Dichlorobenzene, 1,3-	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Dichlorobenzene, 1,4-	µg/L	5 <sup>B</sup> 1 <sup>D</sup>	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Dichlorodifluoromethane (Freon 12)	µg/L	n/v	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Dichloroethane, 1,1-	µg/L	n/v	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Dichloroethane, 1,2-	µg/L	5 <sup>C</sup>	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Dichloroethene, 1,1-	µg/L	14 <sup>B</sup>	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Dichloroethene, cis-1,2-	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Dichloroethene, trans-1,2-	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Dichloropropane, 1,2-	µg/L	n/v	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Dichloropropene, 1,3- (sum of isomers cis + trans)	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Dichloropropene, cis-1,3-	µg/L	n/v	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
Dichloropropene, trans-1,3-	µg/L	n/v	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40
Ethylene Dibromide (Dibromoethane, 1,2-)	µg/L	n/v	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Hexane (n-Hexane)	µg/L	n/v	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Methyl Ethyl Ketone (MEK) (2-Butanone)	µg/L	n/v	<10	<10	<10	<10	<10	<10	<10	<10
Methyl Isobutyl Ketone (MIBK)	µg/L	n/v	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Methyl tert-butyl ether (MTBE)	µg/L	15 <sup>D</sup>	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Methylene Chloride (Dichloromethane)	µg/L	50 <sup>B</sup>	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Styrene	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Tetrachloroethane, 1,1,1,2-	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Tetrachloroethane, 1,1,2,2-	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Tetrachloroethene (PCE)	µg/L	10 <sup>B</sup>	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Trichloroethane, 1,1,1-	µg/L	n/v	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Trichloroethane, 1,1,2-	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Trichloroethene (TCE)	µg/L	5 <sup>B</sup>	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Trichlorofluoromethane (Freon 11)	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Trihalomethanes	µg/L	100 <sup>B</sup>	0.35	16.9	<0.20	<1.0	<0.20	<1.0	2.0	9.8
Vinyl Chloride	µg/L	1 <sup>B</sup>	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20

See notes on last page



**Table 2**  
**Summary of Groundwater Analytical Results - Private Wells**  
**Clarington Transformer Station**  
**Hydro One Networks Inc.**

Sample Location	Aquifer Unit	Sample Date	PW-09		PW-10		PW-11		PW-12	
			Shallow Overburden	Shallow Overburden	Thorncliffe Formation	Thorncliffe Formation	Shallow Overburden	Shallow Overburden	Shallow Overburden	Shallow Overburden
Sample ID			10-May-17	19-Oct-17	24-Apr-17	16-Oct-17	25-Apr-17	16-Oct-17	25-Apr-17	17-Oct-17
Water Type			WG-160900764-20170510-JK25	WG-160900764-20171019-JK26	WG-160900764-20170424-JK6	WG-160900764-20171016-JK2	WG-160900764-20170425-JK21	WG-160900764-20171016-JK5	WG-160900764-20170425-JK16	WG-160900764-20171017-JK14
Sample Tap			Raw Outside (Back house)	Raw Outside (Back house)	Raw Outside (Back house)	Raw Outside (Back house)	Raw Outside (Back Deck)	Raw Outside (Back Deck)	Raw Outside (Right house)	Raw Outside (Right house)
Treatment Type			None	None	None	None	None	None	Softener	Softener
Sampling Company			STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC
Laboratory			MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX
Laboratory Work Order			B795344	B7N2030	B781996	B7M9357	B783174	B7M9357	B783174	B7N0778
Laboratory Sample ID			EI2337	FJE423	EGP448	FIP272	EGU907	FIP275	EGU902	FIX854
Filtered	Units	ODWS	Total Metals	Total Metals	Total Metals	Total Metals	Total Metals	Total Metals	Total Metals	Total Metals
<b>General Chemistry</b>										
Acidity	mg/L	n/v	37	15	18	8.6	23	36	20	24
Alkalinity, Bicarbonate (as CaCO3)	mg/L	n/v	270	300	210	210	230	320	250	320
Alkalinity, Carbonate (as CaCO3)	mg/L	n/v	2.2	2.8	2.0	2.2	1.9	1.8	2.5	2.0
Alkalinity, Total (as CaCO3)	mg/L	30-500 <sup>E</sup>	270	300	210	210	230	320	250	320
Ammonia (as N)	mg/L	n/v	<0.050	0.067	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Anion Sum	me/L	n/v	7.01	7.92	5.59	5.64	5.11	8.39	5.52	8.38
Cation Sum	me/L	n/v	7.09	8.00	5.70	5.61	4.88	8.30	5.30	8.32
Chloride	mg/L	250 <sup>D</sup>	33	42	12	12	8.3	45	7.8	38
Cyanide (Free)	µg/L	200 <sup>B</sup>	<1	<1	<1	<1	<1	<1	<1	<1
Dissolved Organic Carbon (DOC)	mg/L	5 <sup>D</sup>	1.8	1.3	0.58	0.62	1.1	0.88	2.0	1.2
Electrical Conductivity, Lab	µmhos/cm	n/v	690	740	540	510	480	750	520	760
Fluoride	mg/L	1.5 <sup>B</sup>	<0.10	<0.10	<0.10	0.12	<0.10	<0.10	<0.10	<0.10
Hardness (as CaCO3)	mg/L	80-100 <sup>E</sup>	300 <sup>E</sup>	330 <sup>E</sup>	270 <sup>E</sup>	260 <sup>E</sup>	230 <sup>E</sup>	360 <sup>E</sup>	1.1 <sup>E</sup>	280 <sup>E</sup>
Ion Balance	%	n/v	0.600	0.530	0.910	0.240	2.26	0.540	2.07	0.360
Langelier Index (at 20 C)	none	n/v	0.955	1.10	0.797	0.814	0.816	0.898	-1.36	0.782
Langelier Index (at 4 C)	none	n/v	0.706	0.850	0.548	0.565	0.567	0.650	-1.61	0.534
Nitrate (as N)	mg/L	10.0 <sup>a</sup>	5.03	6.13	<0.10	<0.10	1.10	2.95	1.04	0.93
Nitrate + Nitrite (as N)	mg/L	10.0 <sup>a</sup>	-	6.13	<0.10	<0.10	1.1	2.95	1.04	0.93
Nitrite (as N)	mg/L	1.0 <sup>a</sup>	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Orthophosphate (as P)	mg/L	n/v	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
pH	S.U.	6.5-8.5 <sup>E</sup>	7.94	8.01	8.01	8.05	7.94	7.78	8.03	7.82
Saturation pH (at 20 C)	none	n/v	6.98	6.91	7.22	7.23	7.12	6.88	9.39	7.04
Saturation pH (at 4 C)	none	n/v	7.23	7.16	7.47	7.48	7.37	7.13	9.64	7.29
Sulfate	mg/L	500 <sup>D</sup>	17	15	51	53	8.6	21	12	36
Total Dissolved Solids	mg/L	500 <sup>D</sup>	362	425	300	305	266	470	342	410
Total Organic Carbon	mg/L	n/v	1.9	1.4	0.41	0.89	1.0	0.92	1.9	1.2
Total Suspended Solids	mg/L	n/v	<10	<10	<10	<10	<10	<10	<10	<10
Turbidity, Lab	NTU	5 <sup>D</sup>	0.2	0.2	18 <sup>D</sup>	13 <sup>D</sup>	<0.1	0.2	0.1	<0.1
<b>Metals</b>										
Aluminum	µg/L	100 <sup>E</sup>	<5	<5	<5.0	<5	<5.0	<5	<5.0	7.2
Antimony	µg/L	6 <sup>C</sup>	<0.5	<0.5	<0.50	<0.5	<0.50	<0.5	<0.50	<0.5
Arsenic	µg/L	25 <sup>C</sup>	<1	<1	<1.0	<1	<1.0	<1	<1.0	<1
Barium	µg/L	1,000 <sup>B</sup>	57	62	82	80	24	72	<2.0	26
Beryllium	µg/L	n/v	<0.5	<0.5	<0.50	<0.5	<0.50	<0.5	<0.50	<0.5
Boron	µg/L	5,000 <sup>C</sup>	27	24	<10	<10	<10	15	<10	16
Cadmium	µg/L	5 <sup>B</sup>	<0.1	<0.1	<0.10	<0.1	<0.10	<0.1	<0.10	<0.1
Calcium	µg/L	n/v	110,000	120,000	76,000	73,000	84,000	120,000	440	79,000
Chromium	µg/L	50 <sup>B</sup>	<5	<5	<5.0	<5	<5.0	<5	<5.0	<5
Chromium (Hexavalent)	µg/L	n/v	0.58	0.51	<0.50	<0.50	<0.50	0.69	<0.50	<0.50
Cobalt	µg/L	n/v	<0.5	<0.5	<0.50	<0.5	<0.50	<0.5	<0.50	<0.5
Copper	µg/L	1,000 <sup>D</sup>	5.2	4.8	2.9	1.2	7.7	14	19	32
Iron	µg/L	300 <sup>D</sup>	<100	<100	1,700 <sup>D</sup>	2,300 <sup>D</sup>	<100	<100	<100	<100
Lead	µg/L	10 <sup>C</sup>	<0.5	<0.5	<0.50	<0.5	<0.50	0.55	<0.50	0.98
Magnesium	µg/L	n/v	9,500	10,000	19,000	20,000	5,300	16,000	<50	20,000
Manganese	µg/L	50 <sup>D</sup>	<2	<2	28	49	<2.0	<2	<2.0	14
Mercury	µg/L	1 <sup>B</sup>	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Molybdenum	µg/L	n/v	<0.5	<0.5	1.1	1	<0.50	<0.5	<0.50	<0.5
Nickel	µg/L	n/v	<1	<1	<1.0	<1	<1.0	<1	<1.0	1.4
Phosphorus	µg/L	n/v	<100	<100	<100	<100	<100	<100	<100	<100
Potassium	µg/L	n/v	4,300	4,200	1,100	1,100	480	990	<200	2,200
Selenium	µg/L	50 <sup>B</sup>	<2	<2	<2.0	<2	<2.0	<2	<2.0	<2
Silicon	µg/L	n/v	4,600	5,600	5,000	4,800	3,900	6,900	3,100	6,700
Silver	µg/L	n/v	<0.1	<0.1	<0.10	<0.1	<0.10	<0.1	<0.10	<0.1
Sodium	µg/L	200,000 <sup>D</sup> 20,000 <sup>G</sup>	21,000 <sup>F</sup>	28,000 <sup>F</sup>	4,900	4,800	5,800	24,000 <sup>F</sup>	120,000 <sup>F</sup>	62,000 <sup>F</sup>
Strontium	µg/L	n/v	210	230	220	230	150	260	<1.0	120
Thallium	µg/L	n/v	<0.05	<0.05	<0.050	<0.05	<0.050	<0.05	<0.050	<0.05
Titanium	µg/L	n/v	<5	<5	<5.0	<5	<5.0	<5	<5.0	<5
Uranium	µg/L	20 <sup>B</sup>	0.27	0.31	<0.10	<0.1	0.20	0.49	0.89	3.6
Vanadium	µg/L	n/v	<0.5	<0.5	<0.50	<0.5	<0.50	<0.5	<0.50	<0.5
Zinc	µg/L	5,000 <sup>D</sup>	11	5.4	13	5.5	7.2	11	<5.0	19
Zirconium	µg/L	n/v	<1	<1	<1.0	<1	<1.0	<1	<1.0	<1
<b>Microbiological Analysis</b>										
Escherichia coli (E.Coli)	cfu/100mL	0 <sup>A</sup>	0	0	0	0	1 <sup>A</sup>	0	0	0
Total Coliform Background	cfu/100mL	n/v	650	86	0	0	53	1,300	740	860
Total Coliforms	cfu/100mL	0 <sup>A</sup>	0	7 <sup>A</sup>	0	0	1 <sup>A</sup>	68 <sup>A</sup>	3 <sup>A</sup>	400 <sup>A</sup>
<b>BTEX and Petroleum Hydrocarbons</b>										
Benzene	µg/L	1 <sup>B</sup>	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Toluene	µg/L	60 <sup>B</sup> 24 <sup>D</sup>	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Ethylbenzene	µg/L	140 <sup>B</sup> 1.6 <sup>D</sup>	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Xylene, m & p-	µg/L	300 <sup>B</sup> 1 <sup>D</sup>	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Xylene, o-	µg/L	300 <sup>B</sup> 1 <sup>D</sup>	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Xylenes, Total	µg/L	90 <sup>B</sup> 20 <sup>D</sup>	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
PHC F1 (C6-C10 range)	µg/L	n/v	<25	<25	<25	<25	<25	<25	<25	<25
PHC F1 (C6-C10 range) minus BTEX	µg/L	n/v	<25	<25	<25	<25	<25	<25	<25	<25
PHC F2 (>C10-C16 range)	µg/L	n/v	<100	<100	<100	<100	<100	<100	<100	<100
PHC F3 (>C16-C34 range)	µg/L	n/v	<200	<200	<200	<200	<200	<200	<200	<200
PHC F4 (>C34-C50 range)	µg/L	n/v	<200	<200	<200	<200	<200	<200	<200	<200
Chromatogram to baseline at C50	none	n/v	YES	YES	YES	YES	YES	YES	YES	YES
<b>Polychlorinated Biphenyls</b>										
Aroclor 1242	µg/L	n/v	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Aroclor 1248	µg/L	n/v	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Aroclor 1254	µg/L	n/v	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Aroclor 1260	µg/L	n/v	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Polychlorinated Biphenyls (PCBs)	µg/L	3 <sup>C</sup>	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05

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**Table 2**  
**Summary of Groundwater Analytical Results - Private Wells**  
**Clarington Transformer Station**  
**Hydro One Networks Inc.**

Sample Location Aquifer Unit Sample Date			PW-09		PW-10		PW-11		PW-12	
			Shallow Overburden 10-May-17	Shallow Overburden 19-Oct-17	Thorncliffe Formation 24-Apr-17	Thorncliffe Formation 16-Oct-17	Shallow Overburden 25-Apr-17	Shallow Overburden 16-Oct-17	Shallow Overburden 25-Apr-17	Shallow Overburden 17-Oct-17
Sample ID			WG-160900764- 20170510-JK25	WG-160900764- 20171019-JK26	WG-160900764- 20170424-JK6	WG-160900764- 20171016-JK2	WG-160900764- 20170425-JK21	WG-160900764- 20171016-JK5	WG-160900764- 20170425-JK16	WG-160900764- 20171017-JK14
Water Type			Raw Outside (Back house)	Raw Outside (Back house)	Raw Outside (Back house)	Raw Outside (Back house)	Raw Outside (Back Deck)	Raw Outside (Back Deck)	Raw Outside (Right house)	Raw Outside (Right house)
Sample Tap										
Treatment Type			None	None	None	None	None	None	Softener	Softener
Sampling Company			STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC
Laboratory			MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX
Laboratory Work Order			B795344	B7N2030	B781996	B7M9357	B783174	B7M9357	B783174	B7N0778
Laboratory Sample ID			EIZ337	FJE423	EGP448	FIP272	EGU907	FIP275	EGU902	FIX854
Filtered		Units	ODWS	Total Metals	Total Metals	Total Metals	Total Metals	Total Metals	Total Metals	Total Metals
<b>Semi-Volatile Organic Compounds</b>										
Acenaphthene	µg/L	n/v	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Acenaphthylene	µg/L	n/v	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Anthracene	µg/L	n/v	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(a)anthracene	µg/L	n/v	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(a)pyrene	µg/L	0.01 <sup>B</sup>	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Benzo(b/j)fluoranthene	µg/L	n/v	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(g,h,i)perylene	µg/L	n/v	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(k)fluoranthene	µg/L	n/v	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Biphenyl, 1,1'- (Biphenyl)	µg/L	n/v	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Bis(2-Chloroethyl)ether	µg/L	n/v	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Bis(2-Chloroisopropyl)ether	µg/L	n/v	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Bis(2-Ethylhexyl)phthalate (DEHP)	µg/L	n/v	<1	<1	2	<1	<1	<1	<1	<1
Chloroaniline, 4-	µg/L	n/v	<1	<1	<1	<1	<1	<1	<1	<1
Chlorophenol, 2- (ortho-Chlorophenol)	µg/L	n/v	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Chrysene	µg/L	n/v	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Dibenzo(a,h)anthracene	µg/L	n/v	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dichlorobenzidine, 3,3'-	µg/L	n/v	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Dichlorophenol, 2,4-	µg/L	900 <sup>B</sup> 0.3 <sup>D</sup>	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Diethyl Phthalate	µg/L	n/v	<0.1	<0.1	<0.1	<0.1	0.1	<0.1	0.1	<0.1
Dimethyl Phthalate	µg/L	n/v	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dimethylphenol, 2,4-	µg/L	n/v	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Dinitrophenol, 2,4-	µg/L	n/v	<2	<2	<2	<2	<2	<2	<2	<2
Dinitrotoluene, 2,4-	µg/L	n/v	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Dinitrotoluene, 2,6-	µg/L	n/v	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Fluoranthene	µg/L	n/v	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Fluorene	µg/L	n/v	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Indeno(1,2,3-cd)pyrene	µg/L	n/v	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Methylnaphthalene (Total)	µg/L	n/v	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28
Methylnaphthalene, 1-	µg/L	n/v	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Methylnaphthalene, 2-	µg/L	n/v	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Naphthalene	µg/L	n/v	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Pentachlorophenol	µg/L	60 <sup>B</sup> 30 <sup>D</sup>	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	µg/L	n/v	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Phenol	µg/L	n/v	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Pyrene	µg/L	n/v	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Trichlorobenzene, 1,2,4-	µg/L	n/v	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Trichlorophenol, 2,4,5-	µg/L	n/v	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Trichlorophenol, 2,4,6-	µg/L	5 <sup>B</sup> 2 <sup>D</sup>	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
<b>Volatile Organic Compounds</b>										
Acetone	µg/L	n/v	<10	<10	<10	<10	<10	<10	<10	<10
Bromodichloromethane	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Bromoform (Tribromomethane)	µg/L	n/v	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromomethane (Methyl bromide)	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Carbon Tetrachloride (Tetrachloromethane)	µg/L	2 <sup>B</sup>	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Chlorobenzene (Monochlorobenzene)	µg/L	80 <sup>B</sup> 30 <sup>D</sup>	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Chloroform (Trichloromethane)	µg/L	n/v	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	0.63
Dibromochloromethane	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Dichlorobenzene, 1,2-	µg/L	200 <sup>B</sup> 3 <sup>D</sup>	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Dichlorobenzene, 1,3-	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Dichlorobenzene, 1,4-	µg/L	5 <sup>B</sup> 1 <sup>D</sup>	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Dichlorodifluoromethane (Freon 12)	µg/L	n/v	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Dichloroethane, 1,1-	µg/L	n/v	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Dichloroethane, 1,2-	µg/L	5 <sup>C</sup>	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Dichloroethene, 1,1-	µg/L	14 <sup>B</sup>	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Dichloroethene, cis-1,2-	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Dichloroethene, trans-1,2-	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Dichloropropane, 1,2-	µg/L	n/v	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Dichloropropene, 1,3- (sum of isomers cis + trans)	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Dichloropropene, cis-1,3-	µg/L	n/v	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
Dichloropropene, trans-1,3-	µg/L	n/v	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40
Ethylene Dibromide (Dibromoethane, 1,2-)	µg/L	n/v	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Hexane (n-Hexane)	µg/L	n/v	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Methyl Ethyl Ketone (MEK) (2-Butanone)	µg/L	n/v	<10	<10	<10	<10	<10	<10	<10	<10
Methyl Isobutyl Ketone (MIBK)	µg/L	n/v	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Methyl tert-butyl ether (MTBE)	µg/L	15 <sup>D</sup>	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Methylene Chloride (Dichloromethane)	µg/L	50 <sup>B</sup>	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Styrene	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Tetrachloroethane, 1,1,1,2-	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Tetrachloroethane, 1,1,2,2-	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Tetrachloroethene (PCE)	µg/L	10 <sup>B</sup>	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Trichloroethane, 1,1,1-	µg/L	n/v	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Trichloroethane, 1,1,2-	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Trichloroethene (TCE)	µg/L	5 <sup>B</sup>	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Trichlorofluoromethane (Freon 11)	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Trihalomethanes	µg/L	100 <sup>B</sup>	-	<1.0	<0.20	<1.0	<0.20	<1.0	<0.20	0.63
Vinyl Chloride	µg/L	1 <sup>B</sup>	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20

See notes on last page

**Table 2**  
**Summary of Groundwater Analytical Results - Private Wells**  
**Clarington Transformer Station**  
**Hydro One Networks Inc.**

Sample Location	Aquifer Unit	Sample Date	PW-13		PW-14		PW-15		PW-16	
			Thorncliffe Formation	Thorncliffe Formation	Shallow Overburden	Shallow Overburden	Thorncliffe Formation	Thorncliffe Formation	Shallow Overburden	Shallow Overburden
Sample ID			25-Apr-17	17-Oct-17	24-Apr-17	16-Oct-17	25-Apr-17	18-Oct-17	24-Apr-17	17-Oct-17
Water Type			WG-160900764-20170425-JK11	WG-160900764-20171017-JK9	WG-160900764-20170424-JK2	WG-160900764-20171016-JK1	WG-160900764-20170425-JK10	WG-160900764-20171018-JK25	WG-160900764-20170424-JK5	WG-160900764-20171017-JK12
Sample Tap			Treated Outside (Back house)	Treated Outside (Back house)	Raw Inside (Kitchen)	Raw Inside (Kitchen)	Raw Outside (Back house)	Raw Outside (Back house)	Raw Outside (Back house)	Raw Outside (Back house)
Treatment Type			Softener	Softener	None	None	None	None	None	None
Sampling Company			STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC
Laboratory			MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX
Laboratory Work Order			B783174	B7N0778	B781996	B7M9357	B783174	B7N2030	B781996	B7N0778
Laboratory Sample ID			EGU897	FIX849	EGP444	FIP271	EGU896	FJE422	EGP447	FIX852
Filtered	Units	ODWS	Total Metals	Total Metals	Total Metals	Total Metals	Total Metals	Total Metals	Total Metals	Total Metals
<b>General Chemistry</b>										
Acidity	mg/L	n/v	<10	<5.0	52	39	17	5.4	36	17
Alkalinity, Bicarbonate (as CaCO3)	mg/L	n/v	120	130	340	330	230	220	260	280
Alkalinity, Carbonate (as CaCO3)	mg/L	n/v	1.6	2.0	2.1	1.5	2.3	2.8	2.0	1.8
Alkalinity, Total (as CaCO3)	mg/L	30-500 <sup>E</sup>	120	130	340	330	230	220	270	280
Ammonia (as N)	mg/L	n/v	0.080	0.12	<0.050	0.099	<0.050	<0.050	<0.050	<0.050
Anion Sum	me/L	n/v	3.21	3.36	12.5	9.51	6.06	6.15	6.62	6.95
Cation Sum	me/L	n/v	3.15	3.00	12.5	9.33	6.13	5.60	6.57	6.45
Chloride	mg/L	250 <sup>D</sup>	2.1	1.6	180	67	14	15	14	14
Cyanide (Free)	µg/L	200 <sup>B</sup>	<1	<1	<1	<1	<1	<1	<1	<1
Dissolved Organic Carbon (DOC)	mg/L	5 <sup>D</sup>	0.62	0.66	1.6	1.0	0.86	0.67	1.3	1.2
Electrical Conductivity, Lab	µmhos/cm	n/v	300	300	1,300	860	600	620	640	620
Fluoride	mg/L	1.5 <sup>B</sup>	0.36	0.40	<0.10	<0.10	0.14	<0.10	<0.10	<0.10
Hardness (as CaCO3)	mg/L	80-100 <sup>E</sup>	86	85	450 <sup>E</sup>	380 <sup>E</sup>	<1.0 <sup>E</sup>	<1.0 <sup>E</sup>	320 <sup>E</sup>	310 <sup>E</sup>
Ion Balance	%	n/v	0.930	5.58	0.160	0.970	0.570	4.68	0.330	3.71
Langelier Index (at 20 C)	none	n/v	0.0810	0.175	1.02	0.818	-1.58	-1.62	0.920	0.872
Langelier Index (at 4 C)	none	n/v	-0.169	-0.0750	0.775	0.570	-1.83	-1.87	0.671	0.623
Nitrate (as N)	mg/L	10.0 <sup>B</sup>	<0.10	<0.10	0.39	4.23	6.23	8.02	6.38	8.11
Nitrate + Nitrite (as N)	mg/L	10.0 <sup>B</sup>	<0.10	<0.10	0.39	4.242	6.23	8.02	6.38	8.11
Nitrite (as N)	mg/L	1.0 <sup>B</sup>	<0.010	<0.010	<0.010	0.012	<0.010	<0.010	<0.010	<0.010
Orthophosphate(as P)	mg/L	n/v	<0.010	0.016	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
pH	S.U.	6.5-8.5 <sup>E</sup>	8.14	8.22	7.81	7.68	8.03	8.13	7.90	7.84
Saturation pH (at 20 C)	none	n/v	8.06	8.05	6.79	6.86	9.61	9.75	6.98	6.97
Saturation pH (at 4 C)	none	n/v	8.31	8.30	7.04	7.11	9.86	10.0	7.23	7.22
Sulfate	mg/L	500 <sup>D</sup>	32	34	37	37	30	34	21	19
Total Dissolved Solids	mg/L	500 <sup>D</sup>	138	165	774 <sup>D</sup>	480	348	365	372	375
Total Organic Carbon	mg/L	n/v	0.68	0.66	1.6	1.4	0.81	0.69	0.98	1.2
Total Suspended Solids	mg/L	n/v	<10	<10	<10	<10	<10	<10	<10	<10
Turbidity, Lab	NTU	5 <sup>D</sup>	0.2	0.3	<0.1	<0.1	0.2	<0.1	<0.1	0.2
<b>Metals</b>										
Aluminum	µg/L	100 <sup>E</sup>	<5.0	<5	<5.0	<5	<5.0	<5	<5.0	5.9
Antimony	µg/L	6 <sup>C</sup>	<0.50	<0.5	<0.50	<0.5	<0.50	<0.5	<0.50	<0.5
Arsenic	µg/L	25 <sup>C</sup>	2.8	3	<1.0	<1	<1.0	<1	<1.0	<1
Barium	µg/L	1,000 <sup>B</sup>	33	35	63	50	<2.0	<2	40	47
Beryllium	µg/L	n/v	<0.50	<0.5	<0.50	<0.5	<0.50	<0.5	<0.50	<0.5
Boron	µg/L	5,000 <sup>C</sup>	81	66	<10	22	<10	<10	<10	<10
Cadmium	µg/L	5 <sup>B</sup>	<0.10	<0.1	<0.10	<0.1	<0.10	<0.1	<0.10	<0.1
Calcium	µg/L	n/v	16,000	16,000	160,000	120,000	290	220	110,000	110,000
Chromium	µg/L	50 <sup>B</sup>	<5.0	<5	<5.0	<5	<5.0	<5	<5.0	<5
Chromium (Hexavalent)	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	0.58	0.56
Cobalt	µg/L	n/v	<0.50	<0.5	<0.50	<0.5	<0.50	<0.5	<0.50	<0.5
Copper	µg/L	1,000 <sup>D</sup>	<1.0	<1	21	16	11	9	6.1	6.2
Iron	µg/L	300 <sup>D</sup>	<100	<100	<100	<100	<100	<100	<100	<100
Lead	µg/L	10 <sup>C</sup>	<0.50	<0.5	<0.50	<0.5	0.50	<0.5	<0.50	<0.5
Magnesium	µg/L	n/v	11,000	11,000	14,000	17,000	<50	<50	12,000	11,000
Manganese	µg/L	50 <sup>D</sup>	9.8	7.3	<2.0	<2	<2.0	<2	<2.0	<2
Mercury	µg/L	1 <sup>B</sup>	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Molybdenum	µg/L	n/v	5.4	5.1	<0.50	<0.5	<0.50	<0.5	<0.50	<0.5
Nickel	µg/L	n/v	<1.0	<1	<1.0	1.1	<1.0	<1	<1.0	<1
Phosphorus	µg/L	n/v	<100	<100	<100	<100	<100	<100	<100	<100
Potassium	µg/L	n/v	860	800	440	1,000	<200	54,000	810	970
Selenium	µg/L	50 <sup>B</sup>	<2.0	<2	<2.0	<2	<2.0	<2	<2.0	<2
Silicon	µg/L	n/v	6,200	6,200	5,000	6,100	5,900	6,000	5,700	6,100
Silver	µg/L	n/v	<0.10	<0.1	<0.10	<0.1	<0.10	<0.1	<0.10	<0.1
Sodium	µg/L	200,000 <sup>D</sup> 20,000 <sup>G</sup>	32,000 <sup>F</sup>	29,000 <sup>F</sup>	79,000 <sup>F</sup>	39,000 <sup>F</sup>	140,000 <sup>F</sup>	97,000 <sup>F</sup>	5,500	5,200
Strontium	µg/L	n/v	360	370	340	270	<1.0	<1	180	200
Thallium	µg/L	n/v	<0.050	<0.05	<0.050	<0.05	<0.050	<0.05	<0.050	<0.05
Titanium	µg/L	n/v	<5.0	<5	<5.0	<5	<5.0	<5	<5.0	<5
Uranium	µg/L	20 <sup>B</sup>	0.43	0.47	0.59	1.5	0.63	0.75	0.55	0.54
Vanadium	µg/L	n/v	<0.50	<0.5	<0.50	<0.5	<0.50	<0.5	<0.50	<0.5
Zinc	µg/L	5,000 <sup>D</sup>	<5.0	<5	66	43	<5.0	<5	14	7.1
Zirconium	µg/L	n/v	<1.0	<1	<1.0	<1	<1.0	<1	<1.0	<1
<b>Microbiological Analysis</b>										
Escherichia coli (E.Coli)	cfu/100mL	0 <sup>A</sup>	0	0	0	0	0	0	0	0
Total Coliform Background	cfu/100mL	n/v	0	0	0	0	0	0	0	2
Total Coliforms	cfu/100mL	0 <sup>A</sup>	0	0	0	0	0	0	0	1 <sup>A</sup>
<b>BTEX and Petroleum Hydrocarbons</b>										
Benzene	µg/L	1 <sup>B</sup>	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Toluene	µg/L	60 <sup>B</sup> 24 <sup>D</sup>	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Ethylbenzene	µg/L	140 <sup>B</sup> 1.6 <sup>D</sup>	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Xylene, m & p-	µg/L	300 <sup>B</sup> 1 <sup>D</sup>	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Xylene, o-	µg/L	300 <sup>B</sup> 1 <sup>D</sup>	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Xylenes, Total	µg/L	90 <sup>B</sup> 20 <sup>D</sup>	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
PHC F1 (C6-C10 range)	µg/L	n/v	<25	<25	<25	<25	<25	<25	<25	<25
PHC F1 (C6-C10 range) minus BTEX	µg/L	n/v	<25	<25	<25	<25	<25	<25	<25	<25
PHC F2 (>C10-C16 range)	µg/L	n/v	<100	<100	<100	<100	<100	<100	<100	<100
PHC F3 (>C16-C34 range)	µg/L	n/v	<200	<200	<200	<200	<200	<200	<200	<200
PHC F4 (>C34-C50 range)	µg/L	n/v	<200	<200	<200	<200	<200	<200	<200	<200
Chromatogram to baseline at C50	none	n/v	YES	YES	YES	YES	YES	YES	YES	YES
<b>Polychlorinated Biphenyls</b>										
Aroclor 1242	µg/L	n/v	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Aroclor 1248	µg/L	n/v	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Aroclor 1254	µg/L	n/v	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Aroclor 1260	µg/L	n/v	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Polychlorinated Biphenyls (PCBs)	µg/L	3 <sup>C</sup>	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05

See notes on last page

**Table 2**  
**Summary of Groundwater Analytical Results - Private Wells**  
**Clarington Transformer Station**  
**Hydro One Networks Inc.**

Sample Location Aquifer Unit Sample Date			PW-13 Thornccliffe Formation		PW-14 Shallow Overburden		PW-15 Thornccliffe Formation		PW-16 Shallow Overburden	
			25-Apr-17	17-Oct-17	24-Apr-17	16-Oct-17	25-Apr-17	18-Oct-17	24-Apr-17	17-Oct-17
Sample ID			WG-160900764- 20170425-JK11	WG-160900764- 20171017-JK9	WG-160900764- 20170424-JK2	WG-160900764- 20171016-JK1	WG-160900764- 20170425-JK10	WG-160900764- 20171018-JK25	WG-160900764- 20170424-JK5	WG-160900764- 20171017-JK12
Water Type			Treated Outside (Back house)	Treated Outside (Back house)	Raw Inside (Kitchen)	Raw Inside (Kitchen)	Raw Outside (Back house)	Raw Outside (Back house)	Raw Outside (Back house)	Raw Outside (Back house)
Sample Tap										
Treatment Type			Softener	Softener	None	None	None	None	None	None
Sampling Company			STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC
Laboratory			MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX
Laboratory Work Order			B783174	B7N0778	B781996	B7M9357	B783174	B7N2030	B781996	B7N0778
Laboratory Sample ID			EGU897	FIX849	EGP444	FIP271	EGU896	FJE422	EGP447	FIX852
Filtered		Units	ODWS	Total Metals	Total Metals	Total Metals	Total Metals	Total Metals	Total Metals	Total Metals
<b>Semi-Volatile Organic Compounds</b>										
Acenaphthene	µg/L	n/v	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Acenaphthylene	µg/L	n/v	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Anthracene	µg/L	n/v	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(a)anthracene	µg/L	n/v	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(a)pyrene	µg/L	0.01 <sup>B</sup>	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Benzo(b/j)fluoranthene	µg/L	n/v	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(g,h,i)perylene	µg/L	n/v	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(k)fluoranthene	µg/L	n/v	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Biphenyl, 1,1'- (Biphenyl)	µg/L	n/v	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Bis(2-Chloroethyl)ether	µg/L	n/v	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Bis(2-Chloroisopropyl)ether	µg/L	n/v	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Bis(2-Ethylhexyl)phthalate (DEHP)	µg/L	n/v	<1	<1	<1	<1	<1	<1	4	<1
Chloroaniline, 4-	µg/L	n/v	<1	<1	<1	<1	<1	<1	<1	<1
Chlorophenol, 2- (ortho-Chlorophenol)	µg/L	n/v	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Chrysene	µg/L	n/v	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Dibenzo(a,h)anthracene	µg/L	n/v	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dichlorobenzidine, 3,3'-	µg/L	n/v	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Dichlorophenol, 2,4-	µg/L	900 <sup>B</sup> 0.3 <sup>D</sup>	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Diethyl Phthalate	µg/L	n/v	0.2	<0.1	<0.1	<0.1	0.2	<0.1	<0.1	<0.1
Dimethyl Phthalate	µg/L	n/v	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dimethylphenol, 2,4-	µg/L	n/v	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Dinitrophenol, 2,4-	µg/L	n/v	<2	<2	<2	<2	<2	<2	<2	<2
Dinitrotoluene, 2,4-	µg/L	n/v	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Dinitrotoluene, 2,6-	µg/L	n/v	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Fluoranthene	µg/L	n/v	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Fluorene	µg/L	n/v	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Indeno(1,2,3-cd)pyrene	µg/L	n/v	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Methylnaphthalene (Total)	µg/L	n/v	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28
Methylnaphthalene, 1-	µg/L	n/v	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Methylnaphthalene, 2-	µg/L	n/v	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Naphthalene	µg/L	n/v	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Pentachlorophenol	µg/L	60 <sup>B</sup> 30 <sup>D</sup>	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	µg/L	n/v	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Phenol	µg/L	n/v	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Pyrene	µg/L	n/v	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Trichlorobenzene, 1,2,4-	µg/L	n/v	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Trichlorophenol, 2,4,5-	µg/L	n/v	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Trichlorophenol, 2,4,6-	µg/L	5 <sup>B</sup> 2 <sup>D</sup>	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
<b>Volatile Organic Compounds</b>										
Acetone	µg/L	n/v	<10	<10	<10	<10	<10	<10	<10	<10
Bromodichloromethane	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Bromoform (Tribromomethane)	µg/L	n/v	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromomethane (Methyl bromide)	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Carbon Tetrachloride (Tetrachloromethane)	µg/L	2 <sup>B</sup>	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Chlorobenzene (Monochlorobenzene)	µg/L	80 <sup>B</sup> 30 <sup>D</sup>	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Chloroform (Trichloromethane)	µg/L	n/v	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Dibromochloromethane	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Dichlorobenzene, 1,2-	µg/L	200 <sup>B</sup> 3 <sup>D</sup>	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Dichlorobenzene, 1,3-	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Dichlorobenzene, 1,4-	µg/L	5 <sup>B</sup> 1 <sup>D</sup>	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Dichlorodifluoromethane (Freon 12)	µg/L	n/v	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Dichloroethane, 1,1-	µg/L	n/v	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Dichloroethane, 1,2-	µg/L	5 <sup>C</sup>	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Dichloroethene, 1,1-	µg/L	14 <sup>B</sup>	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Dichloroethene, cis-1,2-	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Dichloroethene, trans-1,2-	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Dichloropropane, 1,2-	µg/L	n/v	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Dichloropropene, 1,3- (sum of isomers cis + trans)	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Dichloropropene, cis-1,3-	µg/L	n/v	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
Dichloropropene, trans-1,3-	µg/L	n/v	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40
Ethylene Dibromide (Dibromoethane, 1,2-)	µg/L	n/v	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Hexane (n-Hexane)	µg/L	n/v	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Methyl Ethyl Ketone (MEK) (2-Butanone)	µg/L	n/v	<10	<10	<10	<10	<10	<10	<10	<10
Methyl Isobutyl Ketone (MIBK)	µg/L	n/v	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Methyl tert-butyl ether (MTBE)	µg/L	15 <sup>D</sup>	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Methylene Chloride (Dichloromethane)	µg/L	50 <sup>B</sup>	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Styrene	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Tetrachloroethane, 1,1,1,2-	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Tetrachloroethane, 1,1,2,2-	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Tetrachloroethene (PCE)	µg/L	10 <sup>B</sup>	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Trichloroethane, 1,1,1-	µg/L	n/v	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Trichloroethane, 1,1,2-	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Trichloroethene (TCE)	µg/L	5 <sup>B</sup>	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Trichlorofluoromethane (Freon 111)	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Trihalomethanes	µg/L	100 <sup>B</sup>	<0.20	<1.0	<0.20	<1.0	<0.20	<1.0	<0.20	<1.0
Vinyl Chloride	µg/L	1 <sup>B</sup>	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20

See notes on last page

**Table 2**  
**Summary of Groundwater Analytical Results - Private Wells**  
**Clarington Transformer Station**  
**Hydro One Networks Inc.**

Sample Location	Aquifer Unit	Sample Date	PW-17		PW-18		PW-19		PW-20	
			Thornccliffe Formation	Thornccliffe Formation	Thornccliffe Formation	Thornccliffe Formation	Shallow Overburden	Shallow Overburden	Shallow Overburden	Shallow Overburden
Sample ID			24-Apr-17	16-Oct-17	25-Apr-17	17-Oct-17	24-Apr-17	17-Oct-17	26-Apr-17	17-Oct-17
Water Type			WG-160900764-20170424-JK7	WG-160900764-20171016-JK4	WG-160900764-20170425-JK18	WG-160900764-20171017-JK18	WG-160900764-20170424-JK4	WG-160900764-20171017-JK11	WG-160900764-20170426-JK22	WG-160900764-20171017-JK15
Sample Tap			Raw Outside (Back house)	Raw Outside (Back house)	Raw Outside (Back house)	Raw Outside (Back house)	Raw Inside (Basement)	Raw Inside (Basement)	Raw Outside (Back house)	Raw Outside (Back house)
Treatment Type			None	None	None	None	None	None	None	None
Sampling Company			STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC
Laboratory			MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX
Laboratory Work Order			B781996	B7M9357	B783174	B7N0778	B781996	B7N0778	B782997	B7N0778
Laboratory Sample ID			EGP449	FIP274	EGU904	FIX858	EGP446	FIX851	EGU145	FIX855
Filtered	Units	ODWS	Total Metals	Total Metals	Total Metals	Total Metals	Total Metals	Total Metals	Total Metals	Total Metals
<b>General Chemistry</b>										
Acidity	mg/L	n/v	18	7.8	15	5.8	28	31	31	55
Alkalinity, Bicarbonate (as CaCO3)	mg/L	n/v	210	220	200	210	240	340	330	390
Alkalinity, Carbonate (as CaCO3)	mg/L	n/v	2.2	2.3	2.0	2.2	1.7	2.2	2.8	2.1
Alkalinity, Total (as CaCO3)	mg/L	30-500 <sup>E</sup>	220	220	200	210	240	340	330	390
Ammonia (as N)	mg/L	n/v	<0.050	<0.050	0.13	0.082	<0.050	<0.050	<0.050	<0.050
Anion Sum	me/L	n/v	5.78	5.93	4.42	4.52	15.7	17.4	9.75	11.6
Cation Sum	me/L	n/v	5.86	6.05	4.34	4.26	16.0	17.1	9.15	11.1
Chloride	mg/L	250 <sup>D</sup>	14	14	1.8	2.2	360 <sup>D</sup>	350 <sup>D</sup>	79	110
Cyanide (Free)	µg/L	200 <sup>B</sup>	<1	<1	<1	<1	<1	<1	<1	<1
Dissolved Organic Carbon (DOC)	mg/L	5 <sup>D</sup>	0.80	0.78	1.2	1.2	5.0	1.5	2.0	1.1
Electrical Conductivity, Lab	µmhos/cm	n/v	560	520	410	370	1,700	1,700	920	1,000
Fluoride	mg/L	1.5 <sup>B</sup>	<0.10	<0.10	0.13	0.12	<0.10	<0.10	<0.10	<0.10
Hardness (as CaCO3)	mg/L	80-100 <sup>E</sup>	280 <sup>E</sup>	290 <sup>E</sup>	200 <sup>E</sup>	200 <sup>E</sup>	380 <sup>E</sup>	420 <sup>E</sup>	360 <sup>E</sup>	430 <sup>E</sup>
Ion Balance	%	n/v	0.710	1.00	1.02	2.88	1.00	0.910	3.20	2.19
Langelier Index (at 20 C)	none	n/v	0.828	0.862	0.667	0.717	0.858	0.949	1.05	0.983
Langelier Index (at 4 C)	none	n/v	0.579	0.613	0.418	0.469	0.612	0.703	0.797	0.735
Nitrate (as N)	mg/L	10.0 <sup>B</sup>	<0.10	<0.10	<0.10	<0.10	2.26	1.99	1.52	1.48
Nitrate + Nitrite (as N)	mg/L	10.0 <sup>B</sup>	<0.10	<0.10	<0.10	0.024	2.26	1.99	1.52	1.48
Nitrite (as N)	mg/L	1.0 <sup>B</sup>	<0.010	<0.010	<0.010	0.024	<0.010	<0.010	<0.010	<0.010
Orthophosphate(as P)	mg/L	n/v	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	0.014	<0.010
pH	S.U.	6.5-8.5 <sup>E</sup>	8.04	8.04	8.01	8.05	7.89	7.83	7.95	7.75
Saturation pH (at 20 C)	none	n/v	7.22	7.18	7.35	7.33	7.03	6.88	6.90	6.77
Saturation pH (at 4 C)	none	n/v	7.47	7.43	7.59	7.58	7.28	7.12	7.15	7.02
Sulfate	mg/L	500 <sup>D</sup>	51	53	14	13	31	25	37	33
Total Dissolved Solids	mg/L	500 <sup>D</sup>	340	285	228	220	1,020 <sup>D</sup>	965 <sup>D</sup>	512 <sup>D</sup>	580 <sup>D</sup>
Total Organic Carbon	mg/L	n/v	0.63	0.84	1.1	1.2	5.1	1.5	1.8	1.8
Total Suspended Solids	mg/L	n/v	<10	<10	<10	<10	<10	<10	<10	<10
Turbidity, Lab	NTU	5 <sup>D</sup>	17 <sup>D</sup>	17 <sup>D</sup>	6.4 <sup>D</sup>	2.5	<0.1	<0.1	0.2	0.1
<b>Metals</b>										
Aluminum	µg/L	100 <sup>E</sup>	8.1	<5	<5.0	<5	6.3	<5	<5.0	<5
Antimony	µg/L	6 <sup>C</sup>	<0.50	<0.5	<0.50	<0.5	<0.50	<0.5	<0.50	<0.5
Arsenic	µg/L	25 <sup>C</sup>	<1.0	<1	<1.0	<1	<1.0	<1	<1.0	<1
Barium	µg/L	1,000 <sup>B</sup>	42	41	170	170	71	130	67	86
Beryllium	µg/L	n/v	<0.50	<0.5	<0.50	<0.5	<0.50	<0.5	<0.50	<0.5
Boron	µg/L	5,000 <sup>C</sup>	<10	<10	14	14	<10	<10	15	28
Cadmium	µg/L	5 <sup>B</sup>	<0.10	<0.1	<0.10	<0.1	<0.10	<0.1	<0.10	<0.1
Calcium	µg/L	n/v	76,000	78,000	55,000	55,000	140,000	140,000	110,000	130,000
Chromium	µg/L	50 <sup>B</sup>	<5.0	<5	<5.0	<5	<5.0	<5	<5.0	<5
Chromium (Hexavalent)	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Cobalt	µg/L	n/v	<0.50	<0.5	<0.50	<0.5	<0.50	<0.5	<0.50	<0.5
Copper	µg/L	1,000 <sup>D</sup>	1.8	<1	1.5	1.9	7.9	4.5	8.2	11
Iron	µg/L	300 <sup>D</sup>	3,400 <sup>D</sup>	2,500 <sup>D</sup>	1,600 <sup>D</sup>	1,300 <sup>D</sup>	<100	<100	<100	<100
Lead	µg/L	10 <sup>C</sup>	0.80	<0.5	<0.50	<0.5	0.51	1.4	<0.50	<0.5
Magnesium	µg/L	n/v	21,000	22,000	15,000	15,000	8,200	19,000	20,000	22,000
Manganese	µg/L	50 <sup>D</sup>	31	52 <sup>D</sup>	24	23	<2.0	<2	<2.0	<2
Mercury	µg/L	1 <sup>B</sup>	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Molybdenum	µg/L	n/v	2.1	3.3	0.59	0.63	<0.50	<0.5	<0.50	<0.5
Nickel	µg/L	n/v	<1.0	<1	<1.0	<1	<1.0	<1	<1.0	<1
Phosphorus	µg/L	n/v	<100	<100	<100	<100	<100	<100	<100	<100
Potassium	µg/L	n/v	1,100	1,200	1,000	1,000	910	1,700	1,500	1,800
Selenium	µg/L	50 <sup>B</sup>	<2.0	<2	<2.0	<2	<2.0	<2	<2.0	<2
Silicon	µg/L	n/v	5,400	5,100	11,000	11,000	2,800	6,700	5,700	7,400
Silver	µg/L	n/v	<0.10	<0.1	<0.10	<0.1	<0.10	<0.1	<0.10	<0.1
Sodium	µg/L	200,000 <sup>D</sup> 20,000 <sup>F</sup>	4,400	4,700	5,000	4,700	190,000 <sup>F</sup>	200,000 <sup>F</sup>	44,000 <sup>F</sup>	58,000 <sup>F</sup>
Strontium	µg/L	n/v	250	280	230	230	270	360	260	350
Thallium	µg/L	n/v	<0.050	<0.05	<0.050	<0.05	<0.050	<0.05	<0.050	<0.05
Titanium	µg/L	n/v	<5.0	<5	<5.0	<5	<5.0	<5	<5.0	<5
Uranium	µg/L	20 <sup>B</sup>	0.79	0.69	<0.10	<0.1	0.51	0.54	1.2	1.1
Vanadium	µg/L	n/v	<0.50	<0.5	<0.50	<0.5	<0.50	<0.5	<0.50	<0.5
Zinc	µg/L	5,000 <sup>D</sup>	20	<5	7.6	9.8	<5.0	<5	7.7	8.5
Zirconium	µg/L	n/v	<1.0	<1	<1.0	<1	<1.0	<1	<1.0	<1
<b>Microbiological Analysis</b>										
Escherichia coli (E.Coli)	cfu/100mL	0 <sup>A</sup>	0	0	0	0	0	3 <sup>A</sup>	0	17 <sup>A</sup>
Total Coliform Background	cfu/100mL	n/v	0	9	0	56	0	460	25	77
Total Coliforms	cfu/100mL	0 <sup>A</sup>	0	0	0	0	0	46 <sup>A</sup>	1 <sup>A</sup>	32 <sup>A</sup>
<b>BTEX and Petroleum Hydrocarbons</b>										
Benzene	µg/L	1 <sup>B</sup>	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Toluene	µg/L	60 <sup>B</sup> 24 <sup>D</sup>	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Ethylbenzene	µg/L	140 <sup>B</sup> 1.6 <sup>D</sup>	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Xylene, m & p-	µg/L	300 <sup>B</sup> 1 <sup>D</sup>	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Xylene, o-	µg/L	300 <sup>B</sup> 1 <sup>D</sup>	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Xylenes, Total	µg/L	90 <sup>B</sup> 20 <sup>D</sup>	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
PHC F1 (C6-C10 range)	µg/L	n/v	<25	<25	<25	<25	<25	<25	<25	<25
PHC F1 (C6-C10 range) minus BTEX	µg/L	n/v	<25	<25	<25	<25	<25	<25	<25	<25
PHC F2 (>C10-C16 range)	µg/L	n/v	<100	<100	<100	<100	<100	<100	<100	<100
PHC F3 (>C16-C34 range)	µg/L	n/v	<200	<200	<200	<200	<200	<200	<200	<200
PHC F4 (>C34-C50 range)	µg/L	n/v	<200	<200	<200	<200	<200	<200	<200	<200
Chromatogram to baseline at C50	none	n/v	YES	YES	YES	YES	YES	YES	YES	YES
<b>Polychlorinated Biphenyls</b>										
Aroclor 1242	µg/L	n/v	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Aroclor 1248	µg/L	n/v	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Aroclor 1254	µg/L	n/v	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Aroclor 1260	µg/L	n/v	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Polychlorinated Biphenyls (PCBs)	µg/L	3 <sup>C</sup>	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05

See notes on last page



**Table 2**  
**Summary of Groundwater Analytical Results - Private Wells**  
**Clarington Transformer Station**  
**Hydro One Networks Inc.**

Sample Location Aquifer Unit Sample Date			PW-17 Thornccliffe Formation		PW-18 Thornccliffe Formation		PW-19 Shallow Overburden		PW-20 Shallow Overburden	
			24-Apr-17	16-Oct-17	25-Apr-17	17-Oct-17	24-Apr-17	17-Oct-17	26-Apr-17	17-Oct-17
Sample ID			WG-160900764-20170424-JK7	WG-160900764-20171016-JK4	WG-160900764-20170425-JK18	WG-160900764-20171017-JK18	WG-160900764-20170424-JK4	WG-160900764-20171017-JK11	WG-160900764-20170426-JK22	WG-160900764-20171017-JK15
Water Type			Raw Outside (Back house)	Raw Outside (Back house)	Raw Outside (Back house)	Raw Outside (Back house)	Raw Inside (Basement)	Raw Inside (Basement)	Raw Outside (Back house)	Raw Outside (Back house)
Sample Tap										
Treatment Type			None	None	None	None	None	None	None	None
Sampling Company			STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC
Laboratory			MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX
Laboratory Work Order			B781996	B7M9357	B783174	B7N0778	B781996	B7N0778	B782997	B7N0778
Laboratory Sample ID			EGP449	FIP274	EGU904	FIX858	EGP446	FIX851	EGU145	FIX855
Filtered		Units	ODWS	Total Metals	Total Metals	Total Metals	Total Metals	Total Metals	Total Metals	Total Metals
<b>Semi-Volatile Organic Compounds</b>										
Acenaphthene	µg/L	n/v	<0.2	<0.2	<0.2	<1	<0.2	<0.2	<0.2	<0.2
Acenaphthylene	µg/L	n/v	<0.2	<0.2	<0.2	<1	<0.2	<0.2	<0.2	<0.2
Anthracene	µg/L	n/v	<0.05	<0.05	<0.05	<0.3	<0.05	<0.05	<0.05	<0.05
Benzo(a)anthracene	µg/L	n/v	<0.05	<0.05	<0.05	<0.3	<0.05	<0.05	<0.05	<0.05
Benzo(a)pyrene	µg/L	0.01 <sup>B</sup>	<0.01	<0.01	<0.01	<0.05	<0.01	<0.01	<0.01	<0.01
Benzo(b,j)fluoranthene	µg/L	n/v	<0.05	<0.05	<0.05	<0.3	<0.05	<0.05	<0.05	<0.05
Benzo(g,h,i)perylene	µg/L	n/v	<0.05	<0.05	<0.05	<0.3	<0.05	<0.05	<0.05	<0.05
Benzo(k)fluoranthene	µg/L	n/v	<0.05	<0.05	<0.05	<0.3	<0.05	<0.05	<0.05	<0.05
Biphenyl, 1,1'- (Biphenyl)	µg/L	n/v	<0.1	<0.1	<0.1	<0.5	<0.1	<0.1	<0.1	<0.1
Bis(2-Chloroethyl)ether	µg/L	n/v	<0.5	<0.5	<0.5	<3	<0.5	<0.5	<0.5	<0.5
Bis(2-Chloroisopropyl)ether	µg/L	n/v	<0.5	<0.5	<0.5	<3	<0.5	<0.5	<0.5	<0.5
Bis(2-Ethylhexyl)phthalate (DEHP)	µg/L	n/v	3	<1	<1	<5	<1	<1	<1	<1
Chloroaniline, 4-	µg/L	n/v	<1	<1	<1	<5	<1	<1	<1	<1
Chlorophenol, 2- (ortho-Chlorophenol)	µg/L	n/v	<0.1	<0.1	<0.1	<0.5	<0.1	<0.1	<0.1	<0.1
Chrysene	µg/L	n/v	<0.05	<0.05	<0.05	<0.3	<0.05	<0.05	<0.05	<0.05
Dibenzo(a,h)anthracene	µg/L	n/v	<0.1	<0.1	<0.1	<0.5	<0.1	<0.1	<0.1	<0.1
Dichlorobenzidine, 3,3'-	µg/L	n/v	<0.5	<0.5	<0.5	<3	<0.5	<0.5	<0.5	<0.5
Dichlorophenol, 2,4-	µg/L	900 <sup>B</sup> 0.3 <sup>D</sup>	<0.1	<0.1	<0.1	<0.5	<0.1	<0.1	<0.1	<0.1
Diethyl Phthalate	µg/L	n/v	<0.1	<0.1	0.1	<0.5	<0.1	<0.1	<0.1	<0.1
Dimethyl Phthalate	µg/L	n/v	<0.1	<0.1	<0.1	<0.5	<0.1	<0.1	<0.1	<0.1
Dimethylphenol, 2,4-	µg/L	n/v	<0.5	<0.5	<0.5	<3	<0.5	<0.5	<0.5	<0.5
Dinitrophenol, 2,4-	µg/L	n/v	<2	<2	<2	<10	<2	<2	<2	<2
Dinitrotoluene, 2,4-	µg/L	n/v	<0.3	<0.3	<0.3	<1	<0.3	<0.3	<0.3	<0.3
Dinitrotoluene, 2,6-	µg/L	n/v	<0.3	<0.3	<0.3	<1	<0.3	<0.3	<0.3	<0.3
Fluoranthene	µg/L	n/v	<0.2	<0.2	<0.2	<1	<0.2	<0.2	<0.2	<0.2
Fluorene	µg/L	n/v	<0.2	<0.2	<0.2	<1	<0.2	<0.2	<0.2	<0.2
Indeno(1,2,3-cd)pyrene	µg/L	n/v	<0.1	<0.1	<0.1	<0.5	<0.1	<0.1	<0.1	<0.1
Methylnaphthalene (Total)	µg/L	n/v	<0.28	<0.28	<0.28	<1.4	<0.28	<0.28	<0.28	<0.28
Methylnaphthalene, 1-	µg/L	n/v	<0.2	<0.2	<0.2	<1	<0.2	<0.2	<0.2	<0.2
Methylnaphthalene, 2-	µg/L	n/v	<0.2	<0.2	<0.2	<1	<0.2	<0.2	<0.2	<0.2
Naphthalene	µg/L	n/v	<0.2	<0.2	<0.2	<1	<0.2	<0.2	<0.2	<0.2
Pentachlorophenol	µg/L	60 <sup>B</sup> 30 <sup>D</sup>	<0.1	<0.1	<0.1	<0.5	<0.1	<0.1	<0.1	<0.1
Phenanthrene	µg/L	n/v	<0.1	<0.1	<0.1	<0.5	<0.1	<0.1	<0.1	<0.1
Phenol	µg/L	n/v	<0.5	<0.5	<0.5	<3	<0.5	<0.5	<0.5	<0.5
Pyrene	µg/L	n/v	<0.05	<0.05	<0.05	<0.3	<0.05	<0.05	<0.05	<0.05
Trichlorobenzene, 1,2,4-	µg/L	n/v	<0.1	<0.1	<0.1	<0.5	<0.1	<0.1	<0.1	<0.1
Trichlorophenol, 2,4,5-	µg/L	n/v	<0.2	<0.2	<0.2	<1	<0.2	<0.2	<0.2	<0.2
Trichlorophenol, 2,4,6-	µg/L	5 <sup>B</sup> 2 <sup>D</sup>	<0.2	<0.2	<0.2	<1	<0.2	<0.2	<0.2	<0.2
<b>Volatile Organic Compounds</b>										
Acetone	µg/L	n/v	<10	<10	<10	<10	<10	<10	<10	<10
Bromodichloromethane	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	12	<0.50	1.4	<0.50
Bromoform (Tribromomethane)	µg/L	n/v	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.5	<1.0
Bromomethane (Methyl bromide)	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Carbon Tetrachloride (Tetrachloromethane)	µg/L	2 <sup>B</sup>	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Chlorobenzene (Monochlorobenzene)	µg/L	80 <sup>B</sup> 30 <sup>D</sup>	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Chloroform (Trichloromethane)	µg/L	n/v	<0.20	<0.20	<0.20	<0.20	62	0.42	0.90	<0.20
Dibromochloromethane	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	1.5	<0.50	2.2	<0.50
Dichlorobenzene, 1,2-	µg/L	200 <sup>B</sup> 3 <sup>D</sup>	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Dichlorobenzene, 1,3-	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Dichlorobenzene, 1,4-	µg/L	5 <sup>B</sup> 1 <sup>D</sup>	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Dichlorodifluoromethane (Freon 12)	µg/L	n/v	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Dichloroethane, 1,1-	µg/L	n/v	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Dichloroethane, 1,2-	µg/L	5 <sup>C</sup>	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Dichloroethene, 1,1-	µg/L	14 <sup>B</sup>	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Dichloroethene, cis-1,2-	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Dichloroethene, trans-1,2-	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Dichloropropane, 1,2-	µg/L	n/v	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Dichloropropene, 1,3- (sum of isomers cis + trans)	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Dichloropropene, cis-1,3-	µg/L	n/v	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
Dichloropropene, trans-1,3-	µg/L	n/v	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40
Ethylene Dibromide (Dibromoethane, 1,2-)	µg/L	n/v	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Hexane (n-Hexane)	µg/L	n/v	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Methyl Ethyl Ketone (MEK) (2-Butanone)	µg/L	n/v	<10	<10	<10	<10	<10	<10	<10	<10
Methyl Isobutyl Ketone (MIBK)	µg/L	n/v	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Methyl tert-butyl ether (MTBE)	µg/L	15 <sup>D</sup>	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Methylene Chloride (Dichloromethane)	µg/L	50 <sup>B</sup>	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Styrene	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Tetrachloroethane, 1,1,1,2-	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Tetrachloroethane, 1,1,2,2-	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Tetrachloroethene (PCE)	µg/L	10 <sup>B</sup>	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Trichloroethane, 1,1,1-	µg/L	n/v	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Trichloroethane, 1,1,2-	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Trichloroethene (TCE)	µg/L	5 <sup>B</sup>	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Trichlorofluoromethane (Freon 11)	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Trihalomethanes	µg/L	100 <sup>B</sup>	<0.20	<1.0	<0.20	<1.0	75.5	0.42	6.0	<1.0
Vinyl Chloride	µg/L	1 <sup>B</sup>	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20

See notes on last page

**Table 2**  
**Summary of Groundwater Analytical Results - Private Wells**  
**Clarington Transformer Station**  
**Hydro One Networks Inc.**

Sample Location Aquifer Unit Sample Date			PW-21 Thornccliffe Formation		PW-22 Thornccliffe Formation		PW-23 Shallow Overburden	
			25-Apr-17	16-Oct-17	25-Apr-17	17-Oct-17	25-Apr-17	16-Oct-17
Sample ID			WG-160900764- 20170425-JK15	WG-160900764- 20171016-JK3	WG-160900764- 20170425-JK13	WG-160900764- 20171017-JK13	WG-160900764- 20170425-JK20	WG-160900764- 20171016-JK7
Water Type			Raw Inside (Basement)	Raw Inside (Basement)	Raw Inside (Kitchen)	Raw Inside (Kitchen)	Treated Inside (Garage)	Treated Inside (Garage)
Sample Tap								
Treatment Type			None	None	Charcoal Filter	Charcoal Filter	Softener / UV / Filter	Softener / UV / Filter
Sampling Company Laboratory Laboratory Work Order Laboratory Sample ID Filtered	Units	ODWS	STANTEC MAXX B783174 EGU901 Total Metals	STANTEC MAXX B7M9357 FIP273 Total Metals	STANTEC MAXX B783174 EGU899 Total Metals	STANTEC MAXX B7N0778 FIX853 Total Metals	STANTEC MAXX B783174 EGU906 Total Metals	STANTEC MAXX B7M9357 FIP277 Total Metals
<b>General Chemistry</b>								
Acidity	mg/L	n/v	11	8.8	<10	<5.0	46	43
Alkalinity, Bicarbonate (as CaCO3)	mg/L	n/v	200	200	150	160	300	370
Alkalinity, Carbonate (as CaCO3)	mg/L	n/v	2.3	2.2	1.9	2.2	1.8	2.2
Alkalinity, Total (as CaCO3)	mg/L	30-500 <sup>E</sup>	200	200	150	160	300	370
Ammonia (as N)	mg/L	n/v	0.093	0.12	0.13	0.094	<0.050	<0.050
Anion Sum	me/L	n/v	4.39	4.49	3.32	3.41	7.76	8.68
Cation Sum	me/L	n/v	4.39	4.37	3.31	3.20	7.49	8.17
Chloride	mg/L	250 <sup>D</sup>	2.4	2.0	1.3	1.0	30	24
Cyanide (Free)	µg/L	200 <sup>B</sup>	<1	<1	<1	<1	<1	<1
Dissolved Organic Carbon (DOC)	mg/L	5 <sup>D</sup>	1.5	1.3	0.70	0.67	2.5	2.5
Electrical Conductivity, Lab	µmhos/cm	n/v	400	370	310	290	740	770
Fluoride	mg/L	1.5 <sup>B</sup>	<0.10	<0.10	0.27	0.25	<0.10	<0.10
Hardness (as CaCO3)	mg/L	80-100 <sup>E</sup>	200 <sup>E</sup>	200 <sup>E</sup>	130 <sup>E</sup>	130 <sup>E</sup>	310 <sup>E</sup>	330 <sup>E</sup>
Ion Balance	%	n/v	0.0800	1.31	0.180	3.17	1.74	3.05
Langelier Index (at 20 C)	none	n/v	0.745	0.738	0.383	0.451	0.832	0.981
Langelier Index (at 4 C)	none	n/v	0.495	0.488	0.133	0.201	0.584	0.733
Nitrate (as N)	mg/L	10.0 <sup>B</sup>	<0.10	<0.10	<0.10	<0.10	4.21	1.66
Nitrate + Nitrite (as N)	mg/L	10.0 <sup>B</sup>	<0.10	<0.10	<0.10	<0.10	4.238	1.66
Nitrite (as N)	mg/L	1.0 <sup>B</sup>	<0.010	<0.010	<0.010	<0.010	0.028	<0.010
Orthophosphate(as P)	mg/L	n/v	<0.010	<0.010	0.011	<0.010	<0.010	0.012
pH	S.U.	6.5-8.5 <sup>E</sup>	8.09	8.07	8.12	8.17	7.79	7.81
Saturation pH (at 20 C)	none	n/v	7.34	7.33	7.73	7.72	6.96	6.83
Saturation pH (at 4 C)	none	n/v	7.59	7.58	7.98	7.97	7.21	7.08
Sulfate	mg/L	500 <sup>D</sup>	14	17	9.6	9.4	26	22
Total Dissolved Solids	mg/L	500 <sup>D</sup>	232	215	190	170	426	440
Total Organic Carbon	mg/L	n/v	1.3	1.7	0.48	0.68	2.5	2.7
Total Suspended Solids	mg/L	n/v	<10	<10	<10	<10	<10	<10
Turbidity, Lab	NTU	5 <sup>D</sup>	6.5 <sup>D</sup>	7.2 <sup>D</sup>	2.2	0.4	<0.1	0.3
<b>Metals</b>								
Aluminum	µg/L	100 <sup>E</sup>	<5.0	<5	5.2	<5	<5.0	21
Antimony	µg/L	6 <sup>C</sup>	<0.50	<0.5	<0.50	<0.5	<0.50	<0.5
Arsenic	µg/L	25 <sup>C</sup>	<1.0	<1	1.7	1.4	<1.0	<1
Barium	µg/L	1,000 <sup>B</sup>	130	140	120	120	44	52
Beryllium	µg/L	n/v	<0.50	<0.5	<0.50	<0.5	<0.50	<0.5
Boron	µg/L	5,000 <sup>C</sup>	11	10	45	43	32	44
Cadmium	µg/L	5 <sup>B</sup>	<0.10	<0.1	<0.10	<0.1	<0.10	<0.1
Calcium	µg/L	n/v	56,000	56,000	29,000	29,000	100,000	110,000
Chromium	µg/L	50 <sup>B</sup>	<5.0	<5	<5.0	<5	<5.0	<5
Chromium (Hexavalent)	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Cobalt	µg/L	n/v	<0.50	<0.5	<0.50	<0.5	<0.50	<0.5
Copper	µg/L	1,000 <sup>D</sup>	1.3	1.2	<1.0	<1	99	36
Iron	µg/L	300 <sup>D</sup>	1,800 <sup>D</sup>	1,800 <sup>D</sup>	510 <sup>D</sup>	120	<100	170
Lead	µg/L	10 <sup>C</sup>	<0.50	<0.5	<0.50	<0.5	<0.50	0.81
Magnesium	µg/L	n/v	16,000	16,000	15,000	14,000	12,000	11,000
Manganese	µg/L	50 <sup>D</sup>	37	31	22	25	<2.0	60 <sup>D</sup>
Mercury	µg/L	1 <sup>B</sup>	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Molybdenum	µg/L	n/v	0.80	0.71	1.1	1.4	<0.50	<0.5
Nickel	µg/L	n/v	<1.0	<1	<1.0	<1	<1.0	<1
Phosphorus	µg/L	n/v	<100	<100	<100	<100	<100	<100
Potassium	µg/L	n/v	890	850	890	850	2,300	3,100
Selenium	µg/L	50 <sup>B</sup>	<2.0	<2	<2.0	<2	<2.0	<2
Silicon	µg/L	n/v	9,100	9,400	10,000	10,000	5,100	5,900
Silver	µg/L	n/v	<0.10	<0.1	<0.10	<0.1	<0.10	<0.1
Sodium	µg/L	200,000 <sup>D</sup> 20,000 <sup>F</sup>	4,600	4,300	13,000	13,000	30,000 <sup>F</sup>	34,000 <sup>F</sup>
Strontium	µg/L	n/v	210	230	310	310	220	250
Thallium	µg/L	n/v	<0.050	<0.05	<0.050	<0.05	<0.050	<0.05
Titanium	µg/L	n/v	<5.0	<5	<5.0	<5	<5.0	<5
Uranium	µg/L	20 <sup>B</sup>	<0.10	<0.1	<0.10	<0.1	0.37	0.38
Vanadium	µg/L	n/v	<0.50	<0.5	<0.50	<0.5	<0.50	<0.5
Zinc	µg/L	5,000 <sup>D</sup>	<5.0	<5	<5.0	<5	43	41
Zirconium	µg/L	n/v	<1.0	<1	<1.0	<1	<1.0	<1
<b>Microbiological Analysis</b>								
Escherichia coli (E.Coli)	cfu/100mL	0 <sup>A</sup>	0	0	0	0	0	NDOGT <sup>A</sup>
Total Coliform Background	cfu/100mL	n/v	0	37	0	21	89	NDOGT <sup>A</sup>
Total Coliforms	cfu/100mL	0 <sup>A</sup>	0	0	0	0	10 <sup>A</sup>	NDOGT <sup>A</sup>
<b>BTEX and Petroleum Hydrocarbons</b>								
Benzene	µg/L	1 <sup>B</sup>	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Toluene	µg/L	60 <sup>B</sup> 24 <sup>D</sup>	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Ethylbenzene	µg/L	140 <sup>B</sup> 1.6 <sup>D</sup>	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Xylene, m & p-	µg/L	300 <sup>B</sup> 1 <sup>D</sup>	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Xylene, o-	µg/L	300 <sup>B</sup> 1 <sup>D</sup>	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Xylenes, Total	µg/L	90 <sup>B</sup> 20 <sup>D</sup>	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
PHC F1 (C6-C10 range)	µg/L	n/v	<25	<25	<25	<25	<25	<25
PHC F1 (C6-C10 range) minus BTEX	µg/L	n/v	<25	<25	<25	<25	<25	<25
PHC F2 (>C10-C16 range)	µg/L	n/v	<100	<100	<100	<100	<100	<100
PHC F3 (>C16-C34 range)	µg/L	n/v	<200	<200	<200	<200	<200	<200
PHC F4 (>C34-C50 range)	µg/L	n/v	<200	<200	<200	<200	<200	<200
Chromatogram to baseline at C50	none	n/v	YES	YES	YES	YES	YES	YES
<b>Polychlorinated Biphenyls</b>								
Aroclor 1242	µg/L	n/v	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Aroclor 1248	µg/L	n/v	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Aroclor 1254	µg/L	n/v	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Aroclor 1260	µg/L	n/v	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Polychlorinated Biphenyls (PCBs)	µg/L	3 <sup>C</sup>	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05

See notes on last page

**Table 2**  
**Summary of Groundwater Analytical Results - Private Wells**  
**Clarington Transformer Station**  
**Hydro One Networks Inc.**

Sample Location Aquifer Unit Sample Date			PW-21 Thornccliffe Formation		PW-22 Thornccliffe Formation		PW-23 Shallow Overburden	
			25-Apr-17	16-Oct-17	25-Apr-17	17-Oct-17	25-Apr-17	16-Oct-17
Sample ID			WG-160900764- 20170425-JK15	WG-160900764- 20171016-JK3	WG-160900764- 20170425-JK13	WG-160900764- 20171017-JK13	WG-160900764- 20170425-JK20	WG-160900764- 20171016-JK7
Water Type			Raw Inside (Basement)	Raw Inside (Basement)	Raw Inside (Kitchen)	Raw Inside (Kitchen)	Treated Inside (Garage)	Treated Inside (Garage)
Sample Tap								
Treatment Type			None	None	Charcoal Filter	Charcoal Filter	Softener / UV / Filter	Softener / UV / Filter
Sampling Company			STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC
Laboratory			MAXX	MAXX	MAXX	MAXX	MAXX	MAXX
Laboratory Work Order			B783174	B7M9357	B783174	B7N0778	B783174	B7M9357
Laboratory Sample ID			EGU901	FIP273	EGU899	FIX853	EGU906	FIP277
Filtered		Units	ODWS	Total Metals	Total Metals	Total Metals	Total Metals	Total Metals
<b>Semi-Volatile Organic Compounds</b>								
Acenaphthene	µg/L	n/v	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Acenaphthylene	µg/L	n/v	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Anthracene	µg/L	n/v	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(a)anthracene	µg/L	n/v	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(a)pyrene	µg/L	0.01 <sup>B</sup>	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Benzo(b,j)fluoranthene	µg/L	n/v	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(g,h,i)perylene	µg/L	n/v	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(k)fluoranthene	µg/L	n/v	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Biphenyl, 1,1'- (Biphenyl)	µg/L	n/v	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Bis(2-Chloroethyl)ether	µg/L	n/v	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Bis(2-Chloroisopropyl)ether	µg/L	n/v	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Bis(2-Ethylhexyl)phthalate (DEHP)	µg/L	n/v	2	<1	<1	<1	<1	<1
Chloroaniline, 4-	µg/L	n/v	<1	<1	<1	<1	<1	<1
Chlorophenol, 2- (ortho-Chlorophenol)	µg/L	n/v	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Chrysene	µg/L	n/v	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Dibenzo(a,h)anthracene	µg/L	n/v	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dichlorobenzidine, 3,3'-	µg/L	n/v	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Dichlorophenol, 2,4-	µg/L	900 <sup>B</sup> 0.3 <sup>D</sup>	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Diethyl Phthalate	µg/L	n/v	<0.1	<0.1	0.1	<0.1	<0.1	<0.1
Dimethyl Phthalate	µg/L	n/v	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dimethylphenol, 2,4-	µg/L	n/v	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Dinitrophenol, 2,4-	µg/L	n/v	<2	<2	<2	<2	<2	<2
Dinitrotoluene, 2,4-	µg/L	n/v	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Dinitrotoluene, 2,6-	µg/L	n/v	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Fluoranthene	µg/L	n/v	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Fluorene	µg/L	n/v	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Indeno(1,2,3-cd)pyrene	µg/L	n/v	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Methylnaphthalene (Total)	µg/L	n/v	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28
Methylnaphthalene, 1-	µg/L	n/v	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Methylnaphthalene, 2-	µg/L	n/v	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Naphthalene	µg/L	n/v	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Pentachlorophenol	µg/L	60 <sup>B</sup> 30 <sup>D</sup>	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	µg/L	n/v	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Phenol	µg/L	n/v	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Pyrene	µg/L	n/v	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Trichlorobenzene, 1,2,4-	µg/L	n/v	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Trichlorophenol, 2,4,5-	µg/L	n/v	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Trichlorophenol, 2,4,6-	µg/L	5 <sup>B</sup> 2 <sup>D</sup>	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
<b>Volatile Organic Compounds</b>								
Acetone	µg/L	n/v	<10	<10	<10	<10	<10	<10
Bromodichloromethane	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Bromoform (Tribromomethane)	µg/L	n/v	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromomethane (Methyl bromide)	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Carbon Tetrachloride (Tetrachloromethane)	µg/L	2 <sup>B</sup>	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Chlorobenzene (Monochlorobenzene)	µg/L	80 <sup>B</sup> 30 <sup>D</sup>	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Chloroform (Trichloromethane)	µg/L	n/v	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Dibromochloromethane	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Dichlorobenzene, 1,2-	µg/L	200 <sup>B</sup> 3 <sup>D</sup>	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Dichlorobenzene, 1,3-	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Dichlorobenzene, 1,4-	µg/L	5 <sup>B</sup> 1 <sup>D</sup>	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Dichlorodifluoromethane (Freon 12)	µg/L	n/v	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Dichloroethane, 1,1-	µg/L	n/v	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Dichloroethane, 1,2-	µg/L	5 <sup>C</sup>	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Dichloroethene, 1,1-	µg/L	14 <sup>B</sup>	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Dichloroethene, cis-1,2-	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Dichloroethene, trans-1,2-	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Dichloropropane, 1,2-	µg/L	n/v	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Dichloropropene, 1,3- (sum of isomers cis + trans)	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Dichloropropene, cis-1,3-	µg/L	n/v	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
Dichloropropene, trans-1,3-	µg/L	n/v	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40
Ethylene Dibromide (Dibromoethane, 1,2-)	µg/L	n/v	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Hexane (n-Hexane)	µg/L	n/v	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Methyl Ethyl Ketone (MEK) (2-Butanone)	µg/L	n/v	<10	<10	<10	<10	<10	<10
Methyl Isobutyl Ketone (MIBK)	µg/L	n/v	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Methyl tert-butyl ether (MTBE)	µg/L	15 <sup>D</sup>	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Methylene Chloride (Dichloromethane)	µg/L	50 <sup>B</sup>	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Styrene	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Tetrachloroethane, 1,1,1,2-	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Tetrachloroethane, 1,1,2,2-	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Tetrachloroethene (PCE)	µg/L	10 <sup>B</sup>	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Trichloroethane, 1,1,1-	µg/L	n/v	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Trichloroethane, 1,1,2-	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Trichloroethene (TCE)	µg/L	5 <sup>B</sup>	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Trichlorofluoromethane (Freon 11)	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Trihalomethanes	µg/L	100 <sup>B</sup>	<0.20	<1.0	<0.20	<1.0	<0.20	<1.0
Vinyl Chloride	µg/L	1 <sup>B</sup>	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20

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**Table 2**  
**Summary of Groundwater Analytical Results - Private Wells**  
**Clarington Transformer Station**  
**Hydro One Networks Inc.**

Sample Location	Aquifer Unit	Sample Date	PW-24			PW-25		PW-26	
			Shallow Overburden			Shallow Overburden		Shallow Overburden	
Sample ID			25-Apr-17	18-May-17	18-Oct-17	24-Apr-17	16-Oct-17	24-Apr-17	17-Oct-17
Water Type			WG-160900764-20170425-JK19	WG-160900764-20170518-JK1	WG-160900764-20171018-JK20	WG-160900764-20170424-JK9	WG-160900764-20171016-JK6	WG-160900764-20170424-JK1	WG-160900764-20171017-JK10
Sample Tap			Raw Outside (Front house)	Raw Outside (Front house)	Raw Outside (Front house)	Treated Outside (Side house)	Treated Outside (Side house)	Raw Outside Tap	Raw Outside Tap
Treatment Type			None	None	None	Softener/UV	Softener/UV	None	None
Sampling Company			STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC
Laboratory			MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX
Laboratory Work Order			B783174	B7A3600	B7N2030	B781996	B7M9357	B781996	B7N0778
Laboratory Sample ID			EGU905	EKM286	FJE417	EGP451	FIP276	EGP443	FIX850
Filtered	Units	ODWS	Total Metals	Total Metals	Total Metals	Total Metals	Total Metals	Total Metals	Total Metals
<b>General Chemistry</b>									
Acidity	mg/L	n/v	56	-	38	24	34	61	79
Alkalinity, Bicarbonate (as CaCO3)	mg/L	n/v	360	-	350	270	320	350	410
Alkalinity, Carbonate (as CaCO3)	mg/L	n/v	1.9	-	2.3	1.9	2.0	1.8	1.5
Alkalinity, Total (as CaCO3)	mg/L	30-500 <sup>E</sup>	360	-	350	270	320	350	410
Ammonia (as N)	mg/L	n/v	<0.050	-	<0.050	<0.050	0.40	<0.050	<0.050
Anion Sum	me/L	n/v	8.84	-	8.41	10.1	7.47	12.2	14.2
Cation Sum	me/L	n/v	8.98	-	7.83	10.1	6.99	12.1	14.3
Chloride	mg/L	250 <sup>D</sup>	24	-	17	160	14	96	150
Cyanide (Free)	µg/L	200 <sup>B</sup>	1	-	<1	<1	<1	<1	<1
Dissolved Organic Carbon (DOC)	mg/L	5 <sup>D</sup>	2.1	-	1.2	1.5	1.1	2.3	2.2
Electrical Conductivity, Lab	µmhos/cm	n/v	840	-	780	1,100	630	1,200	1,300
Fluoride	mg/L	1.5 <sup>B</sup>	<0.10	-	<0.10	<0.10	<0.10	<0.10	<0.10
Hardness (as CaCO3)	mg/L	80-100 <sup>E</sup>	7.0 <sup>E</sup>	-	9.2 <sup>E</sup>	330 <sup>E</sup>	320 <sup>E</sup>	460 <sup>E</sup>	570 <sup>E</sup>
Ion Balance	%	n/v	0.790	-	3.59	0.0900	3.33	0.480	0.260
Langelier Index (at 20 C)	none	n/v	-0.779	-	-0.584	0.907	0.918	1.01	0.977
Langelier Index (at 4 C)	none	n/v	-1.03	-	-0.832	0.660	0.669	0.762	0.730
Nitrate (as N)	mg/L	10.0 <sup>B</sup>	6.20	-	6.81	0.26	2.44	8.82	2.95
Nitrate + Nitrite (as N)	mg/L	10.0 <sup>B</sup>	6.2	-	6.81	0.26	2.44	8.82	2.96
Nitrite (as N)	mg/L	1.0 <sup>B</sup>	<0.010	-	<0.010	<0.010	<0.010	<0.010	0.010
Orthophosphate (as P)	mg/L	n/v	<0.010	-	<0.010	<0.010	<0.010	<0.010	<0.010
pH	S.U.	6.5-8.5 <sup>E</sup>	7.84	-	7.78	7.89	7.82	7.73	7.60
Saturation pH (at 20 C)	none	n/v	8.54	-	8.43	6.98	6.90	6.72	6.62
Saturation pH (at 4 C)	none	n/v	8.78	-	8.68	7.23	7.15	6.97	6.87
Sulfate	mg/L	500 <sup>D</sup>	22	-	20	13	19	85	81
Total Dissolved Solids	mg/L	500 <sup>D</sup>	464	-	440	632 <sup>D</sup>	365	518 <sup>D</sup>	855 <sup>D</sup>
Total Organic Carbon	mg/L	n/v	2.1	-	1.2	1.4	1.1	2.5	2.2
Total Suspended Solids	mg/L	n/v	<10	-	<10	<10	<10	19	<10
Turbidity, Lab	NTU	5 <sup>D</sup>	<0.1	-	0.2	0.3	0.4	<0.1	<0.1
<b>Metals</b>									
Aluminum	µg/L	100 <sup>E</sup>	6.2	-	7.7	<5.0	11	7.7	<5
Antimony	µg/L	6 <sup>C</sup>	<0.50	-	<0.5	<0.50	<0.5	<0.50	<0.5
Arsenic	µg/L	25 <sup>C</sup>	<1.0	-	<1	<1.0	<1	<1.0	<1
Barium	µg/L	1,000 <sup>B</sup>	<2.0	-	<2	33	47	83	110
Beryllium	µg/L	n/v	<0.50	-	<0.5	<0.50	<0.5	<0.50	<0.5
Boron	µg/L	5,000 <sup>C</sup>	11	-	10	12	<10	18	21
Cadmium	µg/L	5 <sup>B</sup>	<0.10	-	<0.1	<0.10	<0.1	<0.10	<0.1
Calcium	µg/L	n/v	2,300	-	3,000	120,000	110,000	160,000	200,000
Chromium	µg/L	50 <sup>B</sup>	<5.0	-	<5	<5.0	<5	<5.0	<5
Chromium (Hexavalent)	µg/L	n/v	<2.5	-	0.92	<0.50	0.56	<0.50	<0.50
Cobalt	µg/L	n/v	<0.50	-	<0.5	<0.50	<0.5	<0.50	<0.5
Copper	µg/L	1,000 <sup>D</sup>	55	-	11	28	19	35	13
Iron	µg/L	300 <sup>D</sup>	<100	-	<100	<100	<100	<100	<100
Lead	µg/L	10 <sup>C</sup>	<0.50	-	<0.5	1.3	<0.5	<0.50	<0.5
Magnesium	µg/L	n/v	300	-	390	7,200	13,000	15,000	18,000
Manganese	µg/L	50 <sup>D</sup>	<2.0	-	<2	<2.0	3.6	<2.0	<2
Mercury	µg/L	1 <sup>B</sup>	<0.1	-	<0.1	<0.1	<0.1	<0.1	<0.1
Molybdenum	µg/L	n/v	<0.50	-	<0.5	<0.50	<0.5	<0.50	<0.5
Nickel	µg/L	n/v	<1.0	-	<1	<1.0	<1	<1.0	<1
Phosphorus	µg/L	n/v	<100	-	<100	<100	<100	<100	<100
Potassium	µg/L	n/v	<200	-	370	270	540	1,100	1,400
Selenium	µg/L	50 <sup>B</sup>	<2.0	-	<2	<2.0	<2	<2.0	<2
Silicon	µg/L	n/v	8,300	-	8,800	3,400	6,400	3,900	5,000
Silver	µg/L	n/v	0.96	-	<0.1	<0.10	<0.1	<0.10	<0.1
Sodium	µg/L	200,000 <sup>D</sup> 20,000 <sup>G</sup>	200,000 <sup>F</sup>	-	180,000 <sup>F</sup>	79,000 <sup>F</sup>	12,000	65,000 <sup>F</sup>	66,000 <sup>F</sup>
Strontium	µg/L	n/v	5.2	-	7.3	250	230	300	360
Thallium	µg/L	n/v	<0.050	-	<0.05	<0.050	<0.05	<0.050	<0.05
Titanium	µg/L	n/v	<5.0	-	<5	<5.0	<5	<5.0	<5
Uranium	µg/L	20 <sup>B</sup>	0.38	-	0.58	0.26	0.32	0.81	0.92
Vanadium	µg/L	n/v	<0.50	-	<0.5	<0.50	<0.5	<0.50	<0.5
Zinc	µg/L	5,000 <sup>D</sup>	16	-	<5	25	30	21	<5
Zirconium	µg/L	n/v	<1.0	-	<1	<1.0	<1	<1.0	<1
<b>Microbiological Analysis</b>									
Escherichia coli (E.Coli)	cfu/100mL	0 <sup>A</sup>	0	-	NDOGT <sup>A</sup>	0	NDOGT <sup>A</sup>	0	1 <sup>A</sup>
Total Coliform Background	cfu/100mL	n/v	0	-	NDOGT <sup>A</sup>	35	NDOGT <sup>A</sup>	82	300
Total Coliforms	cfu/100mL	0 <sup>A</sup>	0	-	NDOGT <sup>A</sup>	0	NDOGT <sup>A</sup>	59 <sup>A</sup>	95 <sup>A</sup>
<b>BTEX and Petroleum Hydrocarbons</b>									
Benzene	µg/L	1 <sup>B</sup>	<0.20	-	<0.20	<0.20	<0.20	<0.20	<0.20
Toluene	µg/L	60 <sup>B</sup> 24 <sup>D</sup>	<0.20	-	<0.20	<0.20	<0.20	<0.20	<0.20
Ethylbenzene	µg/L	140 <sup>B</sup> 1.6 <sup>D</sup>	<0.20	-	<0.20	<0.20	<0.20	<0.20	<0.20
Xylene, m & p-	µg/L	300 <sup>B</sup> 1 <sup>D</sup>	<0.20	-	<0.20	<0.20	<0.20	<0.20	<0.20
Xylene, o-	µg/L	300 <sup>B</sup> 1 <sup>D</sup>	<0.20	-	<0.20	<0.20	<0.20	<0.20	<0.20
Xylenes, Total	µg/L	90 <sup>B</sup> 20 <sup>D</sup>	<0.20	-	<0.20	<0.20	<0.20	<0.20	<0.20
PHC F1 (C6-C10 range)	µg/L	n/v	40 VX	-	<25	<25	<25	<25	<25
PHC F1 (C6-C10 range) minus BTEX	µg/L	n/v	40	-	<25	<25	<25	<25	<25
PHC F2 (>C10-C16 range)	µg/L	n/v	<100	-	<100	<100	<100	<100	<100
PHC F3 (>C16-C34 range)	µg/L	n/v	<200	-	<200	<200	<200	<200	<200
PHC F4 (>C34-C50 range)	µg/L	n/v	<200	-	<200	<200	<200	<200	<200
Chromatogram to baseline at C50	none	n/v	YES	-	YES	YES	YES	YES	YES
<b>Polychlorinated Biphenyls</b>									
Aroclor 1242	µg/L	n/v	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05
Aroclor 1248	µg/L	n/v	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05
Aroclor 1254	µg/L	n/v	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05
Aroclor 1260	µg/L	n/v	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05
Polychlorinated Biphenyls (PCBs)	µg/L	3 <sup>C</sup>	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05

See notes on last page

**Table 2**  
**Summary of Groundwater Analytical Results - Private Wells**  
**Clarington Transformer Station**  
**Hydro One Networks Inc.**

Sample Location Aquifer Unit Sample Date			PW-24 Shallow Overburden			PW-25 Shallow Overburden		PW-26 Shallow Overburden	
			25-Apr-17	18-May-17	18-Oct-17	24-Apr-17	16-Oct-17	24-Apr-17	17-Oct-17
Sample ID			WG-160900764- 20170425-JK19	WG-160900764- 20170518-JK1	WG-160900764- 20171018-JK20	WG-160900764- 20170424-JK9	WG-160900764- 20171016-JK6	WG-160900764- 20170424-JK1	WG-160900764- 20171017-JK10
Water Type			Raw Outside (Front house)	Raw Outside (Front house)	Raw Outside (Front house)	Treated Outside (Side house)	Treated Outside (Side house)	Raw Outside Tap	Raw Outside Tap
Sample Tap									
Treatment Type			None	None	None	Softener/UV	Softener/UV	None	None
Sampling Company			STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC
Laboratory			MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX
Laboratory Work Order			B783174	B7A3600	B7N2030	B781996	B7M9357	B781996	B7N0778
Laboratory Sample ID			EGUP05	EKM286	FJE417	EGP451	FIP276	EGP443	FIX850
Filtered		Units	Total Metals	Total Metals	Total Metals	Total Metals	Total Metals	Total Metals	Total Metals
Semi-Volatile Organic Compounds									
Acenaphthene	µg/L	n/v	<0.2	-	<0.2	<0.2	<0.2	<0.2	<0.2
Acenaphthylene	µg/L	n/v	<0.2	-	<0.2	<0.2	<0.2	<0.2	<0.2
Anthracene	µg/L	n/v	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(a)anthracene	µg/L	n/v	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(a)pyrene	µg/L	0.01 <sup>B</sup>	<0.01	-	<0.01	<0.01	<0.01	<0.01	<0.01
Benzo(b,j)fluoranthene	µg/L	n/v	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(g,h,i)perylene	µg/L	n/v	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(k)fluoranthene	µg/L	n/v	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05
Biphenyl, 1,1'- (Biphenyl)	µg/L	n/v	<0.1	-	<0.1	<0.1	<0.1	<0.1	<0.1
Bis(2-Chloroethyl)ether	µg/L	n/v	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5
Bis(2-Chloroisopropyl)ether	µg/L	n/v	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5
Bis(2-Ethylhexyl)phthalate (DEHP)	µg/L	n/v	<1	-	<1	<1	<1	<1	<1
Chloroaniline, 4-	µg/L	n/v	<1	-	<1	<1	<1	<1	<1
Chlorophenol, 2- (ortho-Chlorophenol)	µg/L	n/v	<0.1	-	<0.1	<0.1	<0.1	<0.1	<0.1
Chrysene	µg/L	n/v	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05
Dibenzo(a,h)anthracene	µg/L	n/v	<0.1	-	<0.1	<0.1	<0.1	<0.1	<0.1
Dichlorobenzidine, 3,3'-	µg/L	n/v	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5
Dichlorophenol, 2,4-	µg/L	900 <sup>B</sup> 0.3 <sup>D</sup>	<0.1	-	<0.1	<0.1	<0.1	<0.1	<0.1
Diethyl Phthalate	µg/L	n/v	<0.1	-	<0.1	<0.1	<0.1	<0.1	<0.1
Dimethyl Phthalate	µg/L	n/v	<0.1	-	<0.1	<0.1	<0.1	<0.1	<0.1
Dimethylphenol, 2,4-	µg/L	n/v	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5
Dinitrophenol, 2,4-	µg/L	n/v	<2	-	<2	<2	<2	<2	<2
Dinitrotoluene, 2,4-	µg/L	n/v	<0.3	-	<0.3	<0.3	<0.3	<0.3	<0.3
Dinitrotoluene, 2,6-	µg/L	n/v	<0.3	-	<0.3	<0.3	<0.3	<0.3	<0.3
Fluoranthene	µg/L	n/v	<0.2	-	<0.2	<0.2	<0.2	<0.2	<0.2
Fluorene	µg/L	n/v	<0.2	-	<0.2	<0.2	<0.2	<0.2	<0.2
Indeno(1,2,3-cd)pyrene	µg/L	n/v	<0.1	-	<0.1	<0.1	<0.1	<0.1	<0.1
Methylnaphthalene (Total)	µg/L	n/v	<0.28	-	<0.28	<0.28	<0.28	<0.28	<0.28
Methylnaphthalene, 1-	µg/L	n/v	<0.2	-	<0.2	<0.2	<0.2	<0.2	<0.2
Methylnaphthalene, 2-	µg/L	n/v	<0.2	-	<0.2	<0.2	<0.2	<0.2	<0.2
Naphthalene	µg/L	n/v	<0.2	-	<0.2	<0.2	<0.2	<0.2	<0.2
Pentachlorophenol	µg/L	60 <sup>B</sup> 30 <sup>D</sup>	<0.1	-	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	µg/L	n/v	<0.1	-	<0.1	<0.1	<0.1	<0.1	<0.1
Phenol	µg/L	n/v	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5
Pyrene	µg/L	n/v	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05
Trichlorobenzene, 1,2,4-	µg/L	n/v	<0.1	-	<0.1	<0.1	<0.1	<0.1	<0.1
Trichlorophenol, 2,4,5-	µg/L	n/v	<0.2	-	<0.2	<0.2	<0.2	<0.2	<0.2
Trichlorophenol, 2,4,6-	µg/L	5 <sup>B</sup> 2 <sup>D</sup>	<0.2	-	<0.2	<0.2	<0.2	<0.2	<0.2
Volatile Organic Compounds									
Acetone	µg/L	n/v	<10	-	<10	<10	<10	<10	<10
Bromodichloromethane	µg/L	n/v	5.0	-	<0.50	<0.50	<0.50	<0.50	<0.50
Bromoform (Tribromomethane)	µg/L	n/v	<1.0	-	<1.0	<1.0	<1.0	<1.0	<1.0
Bromomethane (Methyl bromide)	µg/L	n/v	<0.50	-	<0.50	<0.50	<0.50	<0.50	<0.50
Carbon Tetrachloride (Tetrachloromethane)	µg/L	2 <sup>B</sup>	4.9 <sup>B</sup>	0.62	<0.20	<0.20	<0.20	<0.20	<0.20
Chlorobenzene (Monochlorobenzene)	µg/L	80 <sup>B</sup> 30 <sup>D</sup>	<0.20	-	<0.20	<0.20	<0.20	<0.20	<0.20
Chloroform (Trichloromethane)	µg/L	18	<0.20	-	0.51	<0.20	<0.20	<0.20	<0.20
Dibromochloromethane	µg/L	n/v	2.0	-	<0.50	<0.50	<0.50	<0.50	<0.50
Dichlorobenzene, 1,2-	µg/L	200 <sup>B</sup> 3 <sup>D</sup>	<0.50	-	<0.50	<0.50	<0.50	<0.50	<0.50
Dichlorobenzene, 1,3-	µg/L	n/v	<0.50	-	<0.50	<0.50	<0.50	<0.50	<0.50
Dichlorobenzene, 1,4-	µg/L	5 <sup>B</sup> 1 <sup>D</sup>	<0.50	-	<0.50	<0.50	<0.50	<0.50	<0.50
Dichlorodifluoromethane (Freon 12)	µg/L	n/v	<1.0	-	<1.0	<1.0	<1.0	<1.0	<1.0
Dichloroethane, 1,1-	µg/L	n/v	<0.20	-	<0.20	<0.20	<0.20	<0.20	<0.20
Dichloroethane, 1,2-	µg/L	5 <sup>C</sup>	<0.50	-	<0.50	<0.50	<0.50	<0.50	<0.50
Dichloroethene, 1,1-	µg/L	14 <sup>B</sup>	<0.20	-	<0.20	<0.20	<0.20	<0.20	<0.20
Dichloroethene, cis-1,2-	µg/L	n/v	<0.50	-	<0.50	<0.50	<0.50	<0.50	<0.50
Dichloroethene, trans-1,2-	µg/L	n/v	<0.50	-	<0.50	<0.50	<0.50	<0.50	<0.50
Dichloropropane, 1,2-	µg/L	n/v	<0.20	-	<0.20	<0.20	<0.20	<0.20	<0.20
Dichloropropene, 1,3- (sum of isomers cis + trans)	µg/L	n/v	<0.50	-	<0.50	<0.50	<0.50	<0.50	<0.50
Dichloropropene, cis-1,3-	µg/L	n/v	<0.30	-	<0.30	<0.30	<0.30	<0.30	<0.30
Dichloropropene, trans-1,3-	µg/L	n/v	<0.40	-	<0.40	<0.40	<0.40	<0.40	<0.40
Ethylene Dibromide (Dibromoethane, 1,2-)	µg/L	n/v	<0.20	-	<0.20	<0.20	<0.20	<0.20	<0.20
Hexane (n-Hexane)	µg/L	n/v	<1.0	-	<1.0	<1.0	<1.0	<1.0	<1.0
Methyl Ethyl Ketone (MEK) (2-Butanone)	µg/L	n/v	<10	-	<10	<10	<10	<10	<10
Methyl Isobutyl Ketone (MIBK)	µg/L	n/v	<5.0	-	<5.0	<5.0	<5.0	<5.0	<5.0
Methyl tert-butyl ether (MTBE)	µg/L	15 <sup>D</sup>	<0.50	-	<0.50	<0.50	<0.50	<0.50	<0.50
Methylene Chloride (Dichloromethane)	µg/L	50 <sup>B</sup>	<2.0	-	<2.0	<2.0	<2.0	<2.0	<2.0
Styrene	µg/L	n/v	<0.50	-	<0.50	<0.50	<0.50	<0.50	<0.50
Tetrachloroethane, 1,1,1,2-	µg/L	n/v	<0.50	-	<0.50	<0.50	<0.50	<0.50	<0.50
Tetrachloroethane, 1,1,2,2-	µg/L	n/v	<0.50	-	<0.50	<0.50	<0.50	<0.50	<0.50
Tetrachloroethene (PCE)	µg/L	10 <sup>B</sup>	<0.20	-	<0.20	<0.20	<0.20	<0.20	<0.20
Trichloroethane, 1,1,1-	µg/L	n/v	<0.20	-	<0.20	<0.20	<0.20	<0.20	<0.20
Trichloroethane, 1,1,2-	µg/L	n/v	<0.50	-	<0.50	<0.50	<0.50	<0.50	<0.50
Trichloroethene (TCE)	µg/L	5 <sup>B</sup>	<0.20	-	<0.20	<0.20	<0.20	<0.20	<0.20
Trichlorofluoromethane (Freon 11)	µg/L	n/v	<0.50	-	<0.50	<0.50	<0.50	<0.50	<0.50
Trihalomethanes	µg/L	100 <sup>B</sup>	25	-	0.51	<0.20	<1.0	<0.20	<1.0
Vinyl Chloride	µg/L	1 <sup>B</sup>	<0.20	-	<0.20	<0.20	<0.20	<0.20	<0.20

See notes on last page

**Table 2**  
**Summary of Groundwater Analytical Results - Private Wells**  
**Clarington Transformer Station**  
**Hydro One Networks Inc.**

**Notes:**

ODWS	Technical Support Document for Ontario Drinking Water Standards, Objectives and Guidelines (MOE, 2006, revised July 2017)
A	ODWS Table 1 - Microbiological Standards, Maximum Acceptable Concentration
B	ODWS Table 2 - Chemical Standards, Maximum Acceptable Concentration
C	ODWS Table 2 - Chemical Standards, Interim Maximum Acceptable Concentration
D	ODWS Table 4 - Chemical/Physical Objectives and Guidelines, Aesthetic Objectives
E	ODWS Table 4 - Chemical/Physical Objectives and Guidelines, Operational Guidelines
F	ODWS Table 4 - Medical Officer of Health Reporting Limit
<b>6.5<sup>A</sup></b>	Concentration exceeds the indicated standard.
15.2	Measured concentration did not exceed the indicated standard.
<b>&lt; 0.50</b>	Laboratory reporting limit was greater than the applicable standard.
<b>&lt; 0.03</b>	Analyte was not detected at a concentration greater than the laboratory reporting limit.
n/v	No standard/guideline value.
-	Parameter not analyzed / not available.
b	Where fluoride is added to drinking water, it is recommended that the concentration be adjusted to 0.5 - 0.8 mg/L the optimum level for control of tooth decay. Where supplies contain naturally occurring fluoride at levels higher than 1.5 mg/L but lower than 2.4 mg/L the Ministry of Health and Long Term Care recommends an approach through local boards of health to raise public and professional awareness to control excessive exposure to fluoride from other sources.
c	This standard applies to water at the point of consumption. Since lead is a component in some plumbing systems, first flush water may contain higher concentrations of lead than water that has been flushed for five minutes.
d	Where both nitrate and nitrite are present, the total of the two should not exceed 10 mg/L (as nitrogen).
e	The standard is expressed as a running annual average of quarterly samples measured at a point reflecting the maximum residence time in the distribution system.
f	Refer to ODWS Table 2 for health related standard
g	The aesthetic objective for sodium in drinking water is 200 mg/L. The local Medical Officer of Health should be notified when the sodium concentration exceeds 20 mg/L so that this information may be communicated to local physicians for their use with patients on sodium restricted diets.
h	When sulfate levels exceed 500 mg/L, water may have a laxative effect on some people.
i	Applicable for all waters at the point of consumption.
j	The operational guidelines for filtration processes are provided as performance criteria in the Procedure for Disinfection of Drinking Water in Ontario.
k	Standard is applicable to total xylenes, and m & p-xylenes and o-xylenes should be summed for comparison.
BO	Values reported may be biased low due to overgrowth
MI	Detection limit was raised due to matrix interferences.
NC	Not calculated.
VX	Result reported was mainly due to one non-hydrocarbon compound eluted inside F1 range.
NDOGN	No data due to Over Growth for Non-Target organisms.
NDOGT	No data due to overgrowth.
<sup>GH</sup>	Standard is applicable to total PCBs, and the individual Aroclors should be added for comparison.
<sup>s14</sup> <sup>GH</sup>	Standard is applicable to PHC in the F2 range minus naphthalene. If naphthalene was not analyzed, the standard is applied to F2.
<sup>s15</sup> <sup>GH</sup>	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.