# PDF – A13 UPDATED ARBORIST REPORT, PREPARED BY DAVE WHITE, SEPTEMBER, 2023 AND OPINION LETTER, DATED JUNE 8, 2020

# Arborist Report For 5329 Old Brock Road



Pickering, Ontario (October 13, 2023)

*DAWhiteTreeCare.com* Tel: 416 431 2453, e-mail: *DAWhiteTreeCare@gmail.com* **D. Andrew White M. Sc.** ISA Certified Arborist ON-0734. 78 Marcella St. Toronto, ON, M1G 1L2.

## **1. Introduction**

The following is an updated arborist report for the property at 5329 Old Brock Road, in Pickering Ontario. The purpose of this report was to inventory the trees on the site and ascertain the potential impacts of the proposed development on the trees on, and near, the subject site.

This report was prepared for Grant Morris Associates Ltd.

## 2. Methods

On-site inspections were made between May 9 and 24, 2019, and September 14, 2023. The sizes of individual trees were measured as diameter at breast height (DBH), breast height being 140 cm from ground level. From the data collected plant Condition Rating (CR), Location Rating (LR), Species Rating (SR), and minimum. Tree Protection Zones (TPZ), were estimated.<sup>1,2</sup>

## **3. Discussion**

There are plans to develop the site at 5329 Old Brock Road. Several non-exempt trees, according to the owner, were removed because of the snowstorm a few years ago. Two trees on the east side of the proposed worksite area would be removed. All of the remaining trees in the Toronto and Region Conservation Area (TRCA) wetland to the southeast would be protected and retained (Table 1, Figs. 1 & 2, Photos 1-9).

#### **Road Allowance Trees:**

Two road allowance trees need to be removed to allowing for the driveway entrance. The remaining road allowance trees could be protected and retained, without risk of injury (Table 1, Fig. 1, Photos 1-2).

#### **Private Trees:**

Six (6) privately owned trees over 15 cm DBH inside the main worksite area have already been removed. Nine (9) trees over 15 cm DBH close to a proposed drainage area would also need to be removed. These trees would be too close to the worksite areas to be retained without undue risk of injury (Table 1, Fig. 1, Photos 3-9).

All of the trees in the 10 metre wide TRCA Wetland Buffer zone could be protected without significant risk of injury (Table 1, Fig. 1, Photos 3-9).

All of the invasive buckthorns should be removed (Table 1, Fig. 1).

Two (2) trees over 15 cm DBH near the margin of the drainage area would be retained with some risk of injury. Insofar as feasible grade changes would be avoided near the trees

There are several dead trees on the site. The dead trees outside the worksite area should be felled. The logs of the trees less than six metres should be removed. In the TRCA protected area, more than six metres from the worksite, felled trees should be left on the ground (Table 1, Fig. 1, Photos 3-9).

All of the remaining private trees, including those near the marsh (wetland), would be retained and protected with virtual no risk of injury (Table 1, Fig. 1).

#### **Neighbours' Trees:**

All of the neighbouring trees on neighbouring properties would be retained, without significant risk of injury (Table 1, Fig. 1).

### **3.2 Tree Protection:**

It is necessary to protect all trees designated for preservation during both demolition and construction. This tree protection can be accomplished by protecting the said trees with *tree protection barriers*. The minimum tree protection zone (TPZ) radius is based on the diameter of the tree (TPZ $\approx$ 0.06<sub>m/cm</sub> x DBH<sub>cm</sub>). Tree barriers for road allowance areas would be composed of a 1.2 metre (4 ft) high orange plastic web snow fencing secured on 2"x4" wood frames. Usually, tree protection barriers, not on road allowance, are to be 1.2 metre (4 ft) high, and composed of plywood. Down-slope areas are to be protected by 1.2 metre (4 ft) erosion and sediment control barriers (silt fence).<sup>3,4</sup>

#### **Roadside Barriers:**

The road allowance trees nearest the worksite entrance way would be protected by webfence barriers. The tree protection barriers would extend at least 1.8 metres from the trees closest to the entrance way (Fig. 1, Table 1).

#### **Worksite Barriers:**

A tree protection barrier would protect the trees on the north side of the worksite area. An existing wooden fence would protect the trees in the gully to the south (Fig. 1).

Trees to the south and east, near the gully and wetland are to be protected by an erosion and sediment control fence (silt fence). This sediment barrier would be close to the topof-slope of the gully to the south, and just west of the 10 metre TRCA wetland buffer to the southeast. Most of the trees east of the worksite would be protected by the erosion sediment control barrier (Table 1, Fig. 1).

### **3.3 Replacement Trees:**

*Marton Smith Landscape Architects Inc.* has developed a Landscape and Naturalization Plan for the 5329 Old Brock Road property. New native trees and shrubs would be planted in existing canopy gaps, within the 10 metre Wetland Buffer (Fig. 3).

All new trees would be of large calliper nursery grown stock. The trees would be transplanted according to municipal codes and bylaws.<sup>4,5</sup>

- (1) Minimum 50 mm calliper (2-inch wide stem) for deciduous trees
- (2) Minimum 1.75-2.5 m height for coniferous trees

Trees would best be transplanted during the spring or autumn. Mid-summer transplanting should be avoided. These trees are to be maintained in good condition. Supplemental watering may be required during the drier periods of the year, especially during the first two or three years after their transplantation.<sup>4,5</sup>

### 4. Conclusions

In order to allow for the proposed development at 5329 Old Brock Road, several trees would be removed. Two (2) road allowance trees would be removed. Six (6) privately owned trees over 15 cm DBH inside the main worksite area have already been removed. Nine (9) trees over 15 cm DBH close to a drainage area also need to be removed. The remaining trees on the site are to be retained without significant risk of injury.

All trees down-slope from the 10 metre TRCA Wetland Buffer would be protected and retained.

The road allowance trees nearest the worksite entrance way would be protected by webfence barriers. The tree protection barriers would extend out at least 1.8 metres from the trees near the entranceway. A tree protection barrier would protect the trees on the north side of the worksite. An existing wooden fence on the south side of the site would protect trees near the gully. The trees down-slope of the 10 metre TRCA Wetland Buffer would be protected with erosion and sediment control barrier.

*Marton Smith Landscape Architects Inc.* has developed a Landscape and Naturalization Plan for the 5329 Old Brock Road property. All new trees would be of large calliper nursery grown stock. All new trees would be transplanted according to municipal codes and bylaws.

D. Andrew White M. Sc.

D. Onotwo Tille

October 13, 2023

### 5. Tree Data:



**Figure #1:** Arborist's Plan and layout (survey) of the 5329 Old Brock Road property, with trees are numbered (green), with trees to be removed or felled (red) indicated.



**Figure #2:** Proposed Development on the 5329 Old Brock Road property, within the 10 m Wetland Buffer, and worksite boundary are indicated. See SWM Drainage Plan (Aug 2023) for further details.



**Figure #3:** Landscape & Naturalization Plan for the 5329 Old Brock Road property, within the 10 m Wetland Buffer (green), and worksite boundary are indicated. See Landscape & Naturalization Plan 05-31-2023: L1-o1 (Aug 2023) for further details.



**Photograph #1:** Front yard trees on the southwest roadside of the 5329 Old Brock Road property.



**Photograph #2:** Front yard trees on the southwest roadside of the 5329 Old Brock Road property, in 2023.



Photograph #3: Trees on the northwest roadside of the 5329 Old Brock Road property.



**Photograph #4:** Trees on the northern roadside of the 5329 Old Brock Road property, in 2023.



Photograph #5: Trees on the southeast side of the 5329 Old Brock Road property.



**Photograph #6:** Trees on the southeast side of the 5329 Old Brock Road property, in 2023.



**Photograph #7:** Trees on the northeast margin of the 5329 Old Brock Road property.



Photograph #8 Trees on the southwest side of the 5329 Old Brock Road property.



**Photograph #9** Trees on the southwest side of the 5329 Old Brock Road property, in 2023.



Photograph #10: Trees on the north and northeast side of 5329 Old Brock Road property.



Photograph #11: Trees on the north and northeast side of 5329 Old Brock Road property, in 2023.



**Photograph #12:** Trees #72 to #78 near the proposed drainage of the 5329 Old Brock Road property, in 2023.



Photograph #13: Trees on the northwest side 5329 Old Brock Road property.



Photograph #14: Trees on the east side 5329 Old Brock Road property.



Photograph #15: Trees on the southwest side 5329 Old Brock Road property..

No.	Tree Species	DBH	Comments	CR	TC
#1	Norway Maple	26 cm	Roadside tree	60%	Town
#1b	stump	c 20 cm	Dead tree, to	0%	Town
	•		remove		
#2	Manitoba Maple	17 cm	Roadside tree	60%	Town
#3	Black Locust	20 cm	Roadside tree	55%	Town
#4	Black Locust	22 cm	Roadside tree	55%	Town
#5	Black Locust	25 cm	Roadside tree	55%	Town
#6	Black Locust	22 cm	Roadside tree	60%	Town
			Remove		
#7	Black Locust	23 cm	Roadside tree	55%	Town
#9.0	Na mara Marala	9.10	Remove	500/	T
#8-9	Norway Maple	8-10 cm	Coppice	50%	1 own
#9-10	Manitoba Maples	22-26	Sw corner	60-65%	Private
#11	Manitoba Maple	27 cm	SW corner	65%	Private
#12	Manitoba Maple	34 cm	SW corner	65%	Private
#13	Manitoba Maple	36 cm	SW Remove	60%	Private
#14	Black Locust	15 cm	SW Remove	65%	Private
#15	Manitoba Maple	20-22 cm	SW corner	65%	Private
#16	Manitoba Maple	30-56 cm	SW Remove	20%	Private
#17	Norway Mapla	15 cm	SW corpor	2004	Drivoto
#17	Norway Maple	13 cm	SW Domovo	20% 65%	Private
#10	Norway Maple	22 cm	SW corner	65%	Private
#19	Norway Maple	24 cm	SW corner	60%	Private
#20	Manitoba Manla	42 Cm	SW corner	65%	Private
#21	Manitoba Maple	10 cm	SW corner	600%	Private
#22	Manitoba Maple	20-22 cm	SW corner	55%	Private
#23	Manitoba Maple	32 cm	Sw comer	55% 60.%	Private
#24	Manitoba Maple	13-17 cm	S side	00 % 65%	Private
#25	Plack Locust	24 cm	S Side	600/	Private
#20	Black Locust	23 cm	SW Remove	60%	Private
#28 20	stumps	S7 CIII	Sw Kelliove	00%	Private
#20-29	stumps	INA	removed	070	Flivate
#30-31	Buckthorns	11-12 cm	NW invasive	55-60%	Private
#32-35	White Cedars	12-14 cm	NW protect	50-60%	Private
#36-49	White Cedars	14-16 cm	NW side	50-60%	Private
#50	Silver Maple	48-52 cm	NW side	55%	Private
#51	Manitoba Maple	18 cm	N side	60%	Private
		10 0	- ,	00,0	

**Table #1.** Tree number (No.), species, diameter at breast height (DBH), comments, Condition Rating (CR) and Tree Category.

No.	Tree Species	DBH	Comments	CR	ТС
#52	Manitoba Maple	85 cm	N side	40%	Private
#53	Basswood	58-64 cm	N Remove	50%	Private
#54	Manitoba Maple	23 cm	N Remove	55%	Private
#54	Manitoba Maple	35 cm	N worksite	60%	Private
#55	Black Locust	36-38	W protect	60%	Private
#56	Black Locust	32-62 cm	W protect	55%	Private
#57	Black Locust	31 cm	W protect	60%	Private
#58	Black Locust	29 cm	W protect	55%	Private
#59	Manitoba Maple	59 cm	N protect	60%	Private
#60	Manitoba Maple	12	SE treed area	60%	Private
#61-62	Manitoba Maples	15-35 cm	SE protect	60-65%	Private
#63	Sugar Maple	19 cm	SE protect	65%	Private
#64-66	Manitoba Maples	18-30 cm	SE protect	65-70%	Private
#67-69	Manitoba Maples	18-27 cm	SE Remove 3	45-50%	Private
	-		very poor		
#70	Black Locust	27 cm	SE treed area	60%	Private
#71	Manitoba Maple	37 cm	SE dead tree	0%	Private
#72-76	Manitoba Maples	14-39 cm	E near drainage	50-60%	Private
			Remove 5		
#77-78	Black Locust	24-31 cm	E near drainage	50-55%	Private
		10.00	Remove 2	0.000/	Di
#79-82	Manitoba Maples	19-28 cm	E very poor, to	0-20%	Private
#83-84	Balsam Poplar	12-28	E treed area	60-65%	Private
#85	Silver Maple	36 cm	NE of drainage	65 %	Private
	Shiver maple	2000	margin	00 /0	1 II vuto
#86	Balsam Poplar	33 cm	NE of drainage	65 %	Private
			margin		
#87	Sugar Maple	62 cm	NE treed area	55%	Private
#88-89	Balsam Poplar	28-36 cm	NE treed area	60-65%	Private
#90-95	Manitoba Maples	16-35	NE treed area,	0-20%	Private
			fell dead trees		
#96-100	Manitoba Maples	16-24 cm	SE wetland	60-65%	Private
#101-111	Balsam Poplars	10-12 cm	E near wetland	65-70%	Private
#112-114	Balsam Poplars	42-48 cm	E near wetland	60-65%	Private
#115-121	Balsam Poplars	10-12 cm	E near wetland	65-70%	Private
#122	Balsam Poplar	29 cm	E near wetland	65%	Private
#123-131	Manitoba Maples	10-19 cm	E near wetland	65-70%	Private
#.132	White Willow	12-16 cm	E near wetland	70%	Private

No.	Tree Species	DBH	Comments	CR	ТС
#133	Silver Maple	26 cm	NE wetland	65%	Private
#134-138	Manitoba	10-16 cm	NE near field,	20-50%	Private
	Maples		to remove		
#139-140	Balsam Poplars	9-14 cm	NE near field	60-65%	Private
#141-143	Manitoba	20-22 cm	NE near field	60-65%	Private
	Maples				
#144	Buckthorn	14-18 cm	NE invasive	55%	Private
#145-147	White Cedars	24-36 cm	NE margin	65-70%	Private
#148-183	White Cedars	16-24 cm	NE off-site	60-70%	Neighbour
#184-201	Balsam Poplars	20-28 cm	E offsite	65-70%	Neighbour
#202-205	Paper Birch	20-28 cm	E off-site	65-70%	Neighbour
#206	White Cedar	27 cm	SW off-site	60%	Neighbour
#207	White Cedar	12-14 cm	SW off-site	55%	Neighbour
#208	White Cedar	11-20 cm	SW off-site	60%	Neighbour
#209	White Cedar	24 cm	SW off-site	60%	Neighbour
#210	White Cedar	19 cm	SW off-site	60%	Neighbour
#211	White Cedar	18-19 cm	SW off-site	60%	Neighbour
#212	White Cedar	18 cm	SW off-site	55%	Neighbour
#213	White Cedar	26 cm	SW off-site	65%	Neighbour
#214	White Cedar	20-27 cm	S off-site	60%	Neighbour
#215	White Cedar	18 cm	S off-site	55%	Neighbour
#216	White Cedar	24 cm	S leaning tree	50%	Neighbour
#217	White Cedar	22 cm	S off-site	60%	Neighbour
#218	White Cedar	16-18 cm	S off-site	60%	Neighbour
#219	White Cedar	15-22 cm	S off-site	60%	Neighbour
#220-235	White Cedars	25-36 cm	SE off-site	60-70%	Neighbour
#236-260+	White Cedars	22-42 cm	SE off-site	60-70%	Neighbour

### **6. References**

1- Council of Tree Landscape Appraisers. 2019. Guide for Plant Appraisal. 10th Edition. International Society of Arboriculture.

2- International Society of Arboriculture of Ontario. 2020. Ontario Supplement to Guide for Plant Appraisal 10th Edition. Ontario Chapter, International Society of Arboriculture.

3-.City of Pickering. 2023. Pickering Website. http://www.cityofpickering.com . Pickering Civic Complex. One The Esplanade. Pickering, ON L1V 6K7.

4- City of Pickering. 2003. TREE PROTECTION BY-LAW - BY-LAW NUMBER 6108/03. Corporationof the City of Pickering.

5- MMAH. 2005. Greenbelt Plan No. 208/2005. Feb 28, 2005. Ministry of Municipal Affairs & Housing.

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78 Marcella St. Toronto, ON, M1G 1L2. Tel: 416 431 2453 Web: <u>DAWhiteTreeCare.com</u> E-mail: <u>DAWhiteTreeCare@Gmail.com</u>

### **Regarding:**

Wooded Area at 5329 Old Brock Road, in Pickering Ontario; Regarding: Calculated tree density.

There are 135 trees on-site at 5329 Old Brock Road. Of these trees, 86 are over 20 cm DBH. The entire site is about 0.5 hectares in area. The wooded section of the site is between 0.10 hectares and 0.2 hectares in area, depending on whether the wooded area extends close to the proposed worksite area, or whether it is equal to the 10 metre Wetland Buffer.

Area Considered Woodlot	Wooded	Trees	Trees
	Area	DBH > 10 cm	DBH > 20 cm
#1 Entire area of	0.5 ha	270 / ha	172 / ha
Subject Site			
#2 Wooded area E & SE	0.2 ha	675 / ha	430 / ha
of worksite.			
#3 Wooded area in	0.1 ha	1350 / ha	860 / ha
10 m Wetland Buffer			

The density of trees over 10 cm DBH is over 250 trees per hectare. The density of trees over 20 cm DBH is over 1000 trees per hectare. As calculated from the entire area of the subject site, the property has less than 1000 trees per hectare

Therefore, the wooded portion of the site qualifies as a "woodlot" according to the City of Pickering Definition. However, most of the treed area is outside of the wooded area. The site as a whole would not be a "woodlot".

Thank you for your patience, sincerely

D. Andrew White M. Sc.

D. Onotwo Tille

June 8, 2020

## **Tree Data:**



**Figure #1:** Arborist's Plan and layout (survey) of the 5329 Old Brock Road property, with trees are numbered (green), with trees to be removed or felled (red) indicated.



**Figure #2:** Proposed Development on the 5329 Old Brock Road property, with in the 10 m Wetland Buffer (green), tree protection barriers (blue), and erosion and sediment control fence (red) are indicated.

No.	Tree Species	DBH	Comments	CR	ТС
#1	Norway Maple	26 cm	Roadside tree	60%	Town
#1b	stump	c 20 cm	Dead tree, to	0%	Town
			remove		
#2	Manitoba Maple	17 cm	Roadside tree	60%	Town
#3	Black Locust	20 cm	Roadside tree	55%	Town
#4	Black Locust	22 cm	Roadside tree	55%	Town
#5	Black Locust	25 cm	Roadside tree	55%	Town
#6	Black Locust	22 cm	Roadside tree	60%	Town
#7	Black Locust	23 cm	Roadside tree	55%	Town
#8-9	Norway Maple	8-10 cm	Coppice	50%	Town
#9-10	Manitoba Maples	22-26	SW corner	60-65%	Private
#11	Manitoba Maple	27 cm	SW corner	65%	Private
#12	Manitoba Maple	34 cm	SW corner	65%	Private
#13	Manitoba Maple	36 cm	SW corner	60%	Private
#14	Black Locust	15 cm	SW Remove	65%	Private
#15	Manitoba Maple	20-22 cm	SW corner	65%	Private
#16	Manitoba Maple	30-56 cm	SW very poor	50%	Private
#17	Norway Maple	15 cm	SW corner	65%	Private
#18	Norway Maple	22 cm	SW Remove	65%	Private
#19	Norway Maple	24 cm	SW corner	65%	Private
#20	Norway Maple	42 cm	SW corner	60%	Private
#21	Manitoba Maple	16 cm	SW corner	65%	Private
#22	Manitoba Maple	20-22 cm	SW corner	60%	Private
#23	Manitoba Maple	52 cm	SW corner	55%	Private
#24	Manitoba Maple	15-17 cm	S side	60 %	Private
#25	Manitoba Maple	24 cm	S side	65%	Private
#26	Black Locust	25 cm	SW Remove	60%	Private
#27	Black Locust	37 cm	SW Remove	60%	Private
#28-29	stumps	NA	W side,	0%	Private
	_		removed		
#30-31	Buckthorns, 2	11-12 cm	NW invasive	55-60%	Private
#32-35	White Cedars,	12-14 cm	NW protect	50-60%	Private
#36-49	White Cedars	14-16 cm	NW side	50-60%	Private
#50	Silver Maple	48-52 cm	NW side	55%	Private
#51	Manitoba Maple	18 cm	N side	60%	Private

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#88-89	Balsam Poplar	28-36 cm	NE treed area	60-65%	Private
#90-95	Manitoba Maples	16-35	NE treed area,	0-20%	Private
#06.100	Manitaha Manlag	16.24 am	SE wotland	60 650/	Drivoto
#90-100	Ralaam Donlara	10-24 cm	E near watland	65 70%	Private
#101-111	Balsam Danlars	10-12 cm	E near wetland	60.65%	Private
#112-114	Balsam Poplars	42-48 cm	E near wetland	65 70%	Private
#115-121	Balsam Poplars	10-12 cm	E near wetland	65-70%	Private
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#212	White Cedar	18 cm	SW off-site	55%	Neighbour
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#215	White Cedar	18 cm	S off-site	55%	Neighbour
#216	White Cedar	24 cm	S leaning tree	50%	Neighbour
#217	White Cedar	22 cm	S off-site	60%	Neighbour
#218	White Cedar	16-18 cm	S off-site	60%	Neighbour
#219	White Cedar	15-22 cm	S off-site	60%	Neighbour
#220-235	White Cedars	25-36 cm	SE off-site	60-70%	Neighbour
#236-260+	White Cedars	22-42 cm	SE off-site	60-70%	Neighbour

## References

1- Council of Tree Landscape Appraisers. 2000. Guide for Plant Appraisal. 9th Edition. International Society of Arboriculture.

2- International Society of Arboriculture of Ontario. 1998. Ontario Supplement to Guide for Plant Appraisal 8th Edition. Ontario Chapter, International Society of Arboriculture.

3-.City of Pickering. 2020. Pickering Website. http://www.cityofpickering.com . Pickering Civic Complex. One The Esplanade. Pickering, ON L1V 6K7.

4- City of Pickering. 2003. TREE PROTECTION BY-LAW - BY-LAW NUMBER 6108/03. Corporationof the City of Pickering.

5- MMAH. 2005. Greenbelt Plan No. 208/2005. Feb 28, 2005. Ministry of Municipal Affairs & Housing.