Tree E mTPZ = 62%,
CRZ=43%.

Tree 5 mTPZ = 41%,
CRZ = 43%

Tree 2
CRZ= 8%

Tree 3 mTPZ=70
CRZ=61%

Tree 4: mTPZ= 20%
CRZ= 31%.

FACILITY TOP = 121.00m
DESIGN OPERATING LEVEL = 120.50
PROPOSED SWM FACILITY
BOTTOM OF POND
DESIGN OPERATING LEVEL = 120.50
FACILITY TOP = 121.00m

10m SETBACK

DECOMMISSIONED STOCKPILE AREA

HEAD WALL

WING WALL

WING WALL

KING ROAD

NORTH SERVICE RD.

DRAFT
NOT FOR CONSTRUCTION

Knowledge Research Consulting

GeoProcess RESEARCH ASSOCIATES

PO Box 65506
Dundas PO
Dundas, ON
L9H 6Y8
(416) 452-5037
www.geoprocessresearch.com

LEGEND

- Tree Location
- Tree Protection Fence
- Tree Protection Zone
- TPZ Encroachment
- 1 Tree Identified for Preservation
- 34 Tree Identified for Removal
- CRZ

SEAL

SCALES

0 10 20 Meters

1:400

No.	REVISIONS	DATE	INITIAL
01	ISSUED FOR REVIEW	05/06/2022	K.G.

Arborist Report
1450 King Road, Burlington
Tree Protection Plan

Scale: 1:400 | Drawn By: S.G. | Drawing No. 01

Date Issued: 05/06/2022 | Checked By: K.G.

Tree #	Common Name	Scientific Name	DBH	Trunk Integrity	Crown Structure	Crown Vigor	Overall Condition (%)	Condition Rating	mTPZ	mTPZ m²	mTPZ encroachment (m²)	mTPZ encroachment (%)	CRZ	CRZ m²	CRZ encroachment (m²)	CRZ encroachment (%)	Comments	Potential Impacts from Construction	Ownership	Recommendation
1	trembling aspen	*Populus tremuloides*	18	0.75	0.80	0.65	75%	Good	2.4	18.1	18.1	100%	4.0	50.3	50.3	100%	fissure in trunk/lower stems dead	Encroachment into mTPZ due to proposed SWM grading and facility installation	Private	Remove
2	trembling aspen	*Populus tremuloides*	12.5	0.80	0.80	0.80	80%	Good	2.4	18.1	0.0	0%	4.0	50.3	3.95	8%		Potential disturbance within the TPZ is unavoidable, therefore place ¾ in thick plywood over an 8-in deep mulch in the TPZ to avoid or reduce soil compaction	Private	Save
3	black walnut	*Juglans nigra*	10	0.80	0.80	0.80	80%	Good	2.4	18.1	12.5	70%	4.0	50.3	30.9	61%	fruiting/growing beside berm	Encroachment into mTPZ due to proposed SWM grading and facility installation	Private	Remove
4	black walnut	*Juglans nigra*	11	0.80	0.80	0.80	80%	Good	2.4	18.1	3.7	20%	4.0	50.3	15.8	31%	fruiting/thicket creeper	Potential disturbance within the TPZ is unavoidable, therefore place ¾ in thick plywood over an 8-in deep mulch in the TPZ to avoid or reduce soil compaction	Private	Save
5	shagbark hickory	*Carya ovata*	38	0.80	0.80	0.80	80%	Good	2.4	18.1	7.5	41%	4.0	50.3	21.7	43%		Encroachment into mTPZ due to proposed SWM grading and facility installation	Private	Remove
6	shagbark hickory	*Carya ovata*	26	0.80	0.80	0.80	80%	Good	2.4	18.1	0.0	0%	4.0	50.3	0.0	0%	Gypsy Moth eggs	None	Private	Save
7	shagbark hickory	*Carya ovata*	10.5	0.80	0.80	0.80	80%	Good	2.4	18.1	0.0	0%	4.0	50.3	0.0	0%		None	Private	Save
8	shagbark hickory	*Carya ovata*	28	0.80	0.80	0.80	80%	Good	2.4	18.1	0.0	0%	4.0	50.3	0.0	0%		None	Private	Save
9	white oak	*Quercus alba*	32	0.80	0.80	0.65	75%	Good	2.4	18.1	0.0	0%	4.0	50.3	0.0	0%	leaf defoliation	None	Private	Save
10	shagbark hickory	*Carya ovata*	11	0.80	0.80	0.80	80%	Good	2.4	18.1	0.0	0%	4.0	50.3	0.0	0%		None	Private	Save
11	white oak	*Quercus alba*	67	0.80	0.80	0.75	80%	Good	4.2	55.4	0.0	0%	7.0	153.9	0.0	0%	leaf defoliation from Gypsy Moth	None	Private	Save
12	shagbark hickory	*Carya ovata*	23,25.5	0.75	0.80	0.80	80%	Good	2.4	18.1	0.0	0%	4.0	50.3	0.0	0%	Codominant, included bark at base	None	Private	Save
13	white oak	*Quercus alba*	105	0.75	0.40	0.40	50%	Fair	6.0	113.1	0.0	0%	10.0	314.2	0.0	0%	dead canopy, epic br from lower larger limbs	None	Private	Save
14	shagbark hickory	*Carya ovata*	49	0.80	0.80	0.80	80%	Good	3.0	28.3	0.0	0%	5.0	78.5	0.0	0%	Gypsy Moth (GM) eggs	None	Private	Save
15	shagbark hickory	*Carya ovata*	18	0.80	0.80	0.80	80%	Good	2.4	18.1	0.0	0%	4.0	50.3	0.0	0%		None	Private	Save
16	white ash	*Fraxinus americana*	12	0.65	0.75	0.65	75%	Fair	2.4	18.1	0.0	0%	4.0	50.3	0.0	0%	EAB holes but live canopy	None	Private	Save
17	Manitoba maple	*Acer negundo*	16	0.80	0.80	0.80	80%	Good	2.4	18.1	0.0	0%	4.0	50.3	0.0	0%		None	Private	Save
18	white willow	*Salix alba*	10	0.75	0.80	0.80	80%	Good	2.4	18.1	18.1	100%	4.0	50.3	50.3	100%	Multi-stem, inlcuded bark at base	Encroachment into mTPZ due to proposed SWM pond decomissioning and fill	Public-SWM Pond	Remove
19	white willow	*Salix alba*	19	0.75	0.80	0.80	80%	Good	2.4	18.1	18.1	100%	4.0	50.3	50.3	100%	growing in line with pipe outlet	Encroachment into mTPZ due to proposed SWM pond decomissioning and fill	Public-SWM Pond	Remove
20	white willow	*Salix alba*	13/15.5/33	0.75	0.80	0.80	80%	Good	2.4	18.1	18.1	100%	4.0	50.3	50.3	100%	Multi-stem	Encroachment into mTPZ due to proposed SWM pond decomissioning and fill	Public-SWM Pond	Remove
21	white pine	*Pinus strobus*	14	0.80	0.80	0.80	80%	Good	2.4	18.1	18.1	100%	4.0	50.3	50.3	100%		Encroachment into mTPZ due to proposed SWM pond decomissioning and fill	Public-SWM Pond	Remove
22	white pine	*Pinus strobus*	12	0.80	0.80	0.80	80%	Good	2.4	18.1	18.1	100%	4.0	50.3	50.3	100%		Encroachment into mTPZ due to proposed SWM pond decomissioning and fill	Public-SWM Pond	Remove
23	white willow	*Salix alba*	28	0.80	0.80	0.80	80%	Good	2.4	18.1	18.1	100%	4.0	50.3	50.3	100%		Encroachment into mTPZ due to proposed SWM pond decomissioning and fill	Public-SWM Pond	Remove
24	white willow	*Salix alba*	11.5	0.75	0.75	0.80	75%	Good	2.4	18.1	18.1	100%	4.0	50.3	50.3	100%	dead larger oak on tr	Encroachment into mTPZ due to proposed SWM pond decomissioning and fill	Public-SWM Pond	Remove
25	white willow	*Salix alba*	19	0.75	0.80	0.80	80%	Good	2.4	18.1	18.1	100%	4.0	50.3	50.3	100%	slight lean	Encroachment into mTPZ due to proposed SWM pond decomissioning and fill	Public-SWM Pond	Remove
26	white willow	*Salix alba*	14	0.80	0.80	0.80	80%	Good	2.4	18.1	18.1	100%	4.0	50.3	50.3	100%	beside standing water	Encroachment into mTPZ due to proposed SWM pond decomissioning and fill	Public-SWM Pond	Remove
27	white willow	*Salix alba*	10	0.80	0.80	0.80	80%	Good	2.4	18.1	18.1	100%	4.0	50.3	50.3	100%		Encroachment into mTPZ due to proposed SWM pond decomissioning and fill	Public-SWM Pond	Remove
28	white willow	*Salix alba*	9,12	0.75	0.80	0.80	80%	Good	2.4	18.1	18.1	100%	4.0	50.3	50.3	100%	Multi-stem, inlcuded bark at base	Encroachment into mTPZ due to proposed SWM pond decomissioning and fill	Public-SWM Pond	Remove
29	white willow	*Salix alba*	18	0.80	0.80	0.80	80%	Good	2.4	18.1	18.1	100%	4.0	50.3	50.3	100%		Encroachment into mTPZ due to proposed SWM pond decomissioning and fill	Public-SWM Pond	Remove
30	white willow	*Salix alba*	14	0.80	0.80	0.80	80%	Good	2.4	18.1	18.1	100%	4.0	50.3	50.3	100%		Encroachment into mTPZ due to proposed SWM pond decomissioning and fill	Public-SWM Pond	Remove
31	white willow	*Salix alba*	18	0.80	0.80	0.80	80%	Good	2.4	18.1	18.1	100%	4.0	50.3	50.3	100%		Encroachment into mTPZ due to proposed SWM pond decomissioning and fill	Public-SWM Pond	Remove
32	white willow	*Salix alba*	13.5,10	0.75	0.80	0.80	80%	Good	2.4	18.1	18.1	100%	4.0	50.3	50.3	100%	Codominant, included bark at base	Encroachment into mTPZ due to proposed SWM pond decomissioning and fill	Public-SWM Pond	Remove
33	red maple	*Acer rubrum*	12	0.80	0.80	0.80	80%	Good	2.4	18.1	18.1	100%	4.0	50.3	50.3	100%		Encroachment into mTPZ due to proposed SWM pond decomissioning and fill	Public-SWM Pond	Remove
34	white ash	*Fraxinus americana*	16.5	0.00	0.00	0.00	0%	Dead	-	-	-	-	-	-	-	-		Encroachment into mTPZ due to proposed SWM pond decomissioning and fill	Public-SWM Pond	Remove
35	white ash	*Fraxinus americana*	14	0.00	0.00	0.00	0%	Dead	-	-	-	-	-	-	-	-	suckering	Encroachment into mTPZ due to proposed SWM pond decomissioning and fill	Public-SWM Pond	Remove
36	red oak	*Quercus rubra*	18.5	0.80	0.80	0.75	80%	Good	2.4	18.1	18.1	100%	4.0	50.3	50.3	100%	some defoliation	Encroachment into mTPZ due to proposed SWM pond decomissioning and fill	Public-SWM Pond	Remove
37	burr oak	*Quercus macrocarpa*	18.5	0.80	0.80	0.75	80%	Good	2.4	18.1	18.1	100%	4.0	50.3	50.3	100%	some defoliation	Encroachment into mTPZ due to proposed SWM pond decomissioning and fill	Public-SWM Pond	Remove
38	burr oak	*Quercus macrocarpa*	13	0.80	0.80	0.80	80%	Good	2.4	18.1	18.1	100%	4.0	50.3	50.3	100%		Encroachment into mTPZ due to proposed SWM pond decomissioning and fill	Public-SWM Pond	Remove
39	red maple	*Acer rubrum*	11	0.65	0.75	0.65	68%	Fair	2.4	18.1	18.1	100%	4.0	50.3	50.3	100%	open wound on trunk	Encroachment into mTPZ due to proposed SWM pond decomissioning and fill	Public-SWM Pond	Remove

GeoProcess RESEARCH ASSOCIATES
Knowledge Research Consulting
PO Box 65506
Dundas PO
Dundas, ON
L9H 6Y6
(416) 452-5037
www.geoprocessresearch.com

Legend

DBH	Diameter at Breast Height (cm)
TPZ	Tree Protection Zone
GOOD	Dead branches less than 10%; good compartmentalization on any wounds, no structural defects
FAIR	10-30% dead branches, size or occurrence of wounds present some concerns, minor structural defects.
POOR	More than 30% dead branches, weak compartmentalization, early leaf drop, presence of insects or disease, major structural defects.
DEAD	Tree shows no signs of life
Rating	(L) = light; (M) = moderate; (H) = heavy

SEAL

No.	REVISIONS	DATE	INITIAL
01	ISSUED FOR REVIEW	05/06/2022	K.G.

Arborist Report
1450 King Road, Burlington
Tree Protection Details

Scale:	Drawn By: S.G.	Drawing No. 02
Date Issued: 05/06/2022	Checked By: K.G.	

Tree #	Common Name	Scientific Name	DBH	Trunk Integrity	Crown Structure	Crown Vigor	Overall Condition (%)	Condition Rating	mTPZ	mTPZ m²	mTPZ encroachment (m²)	mTPZ encroachment (%)	CRZ	CRZ m²	CRZ encroachment (m²)	CRZ encroachment (%)	Comments	Potential Impacts from Construction	Ownership	Recommendation
40	white willow	*Salix alba*	10	0.80	0.80	0.80	80%	Good	2.4	18.1	0.0	0%	4.0	50.3	0.0	0%		None	Private	Save
A	white oak	*Quercus alba*	115.5	0.80	0.80	0.80	80%	Good	6.0	113.1	17.1	15%	10.0	314.2	87.3	28%	lower branches pruned	Potential disturbance within the TPZ is unavoidable, therefore place ¾ in thick plywood over an 8-in deep mulch in the TPZ to avoid or reduce soil compaction	Neighboring	Save
B	trembling aspen	*Populus tremuloides*	15	0.80	0.65	0.75	73%	Good	2.4	18.1	0.0	0%	4.0	50.3	0.0	0%	canopy die back	None	Public - ROW	Save
C	trembling aspen	*Populus tremuloides*	10,16	0.65	0.75	0.65	68%	Fair	2.4	18.1	0.0	0%	4.0	50.3	0.0	0%	smaller trunk stem is dead	None	Public - ROW	Save
D	shagbark hickory	*Carya ovata*	27	0.80	0.80	0.80	80%	Good	2.4	18.1	0.0	0%	4.0	50.3	0.0	0%		None	Neighboring	Save
E	white oak	*Quercus alba*	19	0.80	0.80	0.80	80%	Good	2.4	18.1	11.4	62%	4.0	50.3	21.7	43%			Neighboring	Remove
F	shagbark hickory	*Carya ovata*	25,17	0.80	0.80	0.80	80%	Good	2.4	18.1	0.0	0%	4.0	50.3	0.0	0%		None	Neighboring	Save
G	shagbark hickory	*Carya ovata*	19.5	0.80	0.80	0.80	80%	Good	2.4	18.1	0.0	0%	4.0	50.3	0.0	0%		None	Neighboring	Save
H	shagbark hickory	*Carya ovata*	18	0.80	0.80	0.80	80%	Good	2.4	18.1	0.0	0%	4.0	50.3	0.0	0%		None	Neighboring	Save
I	shagbark hickory	*Carya ovata*	10	0.80	0.80	0.80	80%	Good	2.4	18.1	0.0	0%	4.0	50.3	0.0	0%		None	Neighboring	Save
J	shagbark hickory	*Carya ovata*	20	0.80	0.80	0.80	80%	Good	2.4	18.1	0.0	0%	4.0	50.3	0.0	0%		None	Neighboring	Save
K	shagbark hickory	*Carya ovata*	20	0.80	0.80	0.80	80%	Good	2.4	18.1	0.0	0%	4.0	50.3	0.0	0%		None	Neighboring	Save
L	white oak	*Quercus alba*	23	0.80	0.80	0.80	80%	Good	2.4	18.1	0.0	0%	4.0	50.3	0.0	0%		None	Neighboring	Save
M	white oak	*Quercus alba*	33	0.80	0.80	0.65	75%	Good	2.4	18.1	0.0	0%	4.0	50.3	0.0	0%	Dead branched (minor)	None	Neighboring	Save
N	shagbark hickory	*Carya ovata*	14.5	0.80	0.80	0.80	80%	Good	2.4	18.1	0.0	0%	4.0	50.3	0.0	0%		None	Neighboring	Save
O	white oak	*Quercus alba*	13.5	0.80	0.80	0.80	80%	Good	2.4	18.1	0.0	0%	4.0	50.3	0.0	0%		None	Neighboring	Save
P	white oak	*Quercus alba*	27.5	0.80	0.80	0.80	80%	Good	2.4	18.1	0.0	0%	4.0	50.3	0.0	0%		None	Neighboring	Save
Q	red oak	*Quercus rubra*	44,65	0.80	0.80	0.80	80%	Good	4.2	55.4	0.0	0%	7.0	153.9	0.0	0%	some lower branch dieback. two trunks fused. Gypsy moth eggs	None	Neighboring	Save
R	shagbark hickory	*Carya ovata*	18	0.80	0.80	0.80	80%	Good	2.4	18.1	0.0	0%	4.0	50.3	0.0	0%		None	Neighboring	Save
S	white oak	*Quercus alba*	20,30	0.00	0.00	0.00	0%	Dead	-	-	0.0	0%	-	-	-	-	snag habitat, loose bark	None	Neighboring	Save
T	shagbark hickory	*Carya ovata*	45	0.80	0.80	0.80	80%	Good	3.0	28.3	0.0	0%	5.0	78.5	0.0	0%	bat roosting habitat	None	Neighboring	Save
U	white ash	*Fraxinus americana*	16	0.00	0.00	0.00	0%	Dead	-	-	0.0	0%	-	-	-	-	EAB	None	Neighboring	Save
V	white oak	*Quercus alba*	31.5	0.80	0.80	0.80	80%	Good	2.4	18.1	0.0	0%	4.0	50.3	0.0	0%		None	Neighboring	Save
W	white oak	*Quercus alba*	32	0.80	0.80	0.75	78%	Good	2.4	18.1	0.0	0%	4.0	50.3	0.0	0%	defoliation	None	Neighboring	Save
X	white oak	*Quercus alba*	27.5	0.80	0.80	0.75	78%	Good	2.4	18.1	0.0	0%	4.0	50.3	0.0	0%	GM defoliation	None	Neighboring	Save
Y	white oak	*Quercus alba*	28	0.80	0.80	0.75	78%	Good	2.4	18.1	0.0	0%	4.0	50.3	0.0	0%	GM eggs, defoliation	None	Neighboring	Save
Z	white oak	*Quercus alba*	57	0.80	0.80	0.80	80%	Good	3.6	40.7	0.0	0%	6.0	113.1	0.0	0%		None	Neighboring	Save
AA	white oak	*Quercus alba*	32	0.00	0.00	0.00	0%	Dead	-	-	0.0	0%	-	-	-	-		None	Public- NH Feature	Save
AB	white oak	*Quercus alba*	15	0.80	0.80	0.65	75%	Good	2.4	18.1	0.0	0%	4.0	50.3	0.0	0%	defoliation, GM eggs	None	Public- NH Feature	Save
AC	white oak	*Quercus alba*	21	0.80	0.80	0.65	75%	Good	2.4	18.1	0.0	0%	4.0	50.3	0.0	0%	GM defolation	None	Public- NH Feature	Save
AD	white ash	*Fraxinus americana*	17	0.80	0.80	0.80	80%	Good	2.4	18.1	0.0	0%	4.0	50.3	0.0	0%	EAB	None	Public- NH Feature	Save
AE	white ash	*Fraxinus americana*	10	0.80	0.80	0.80	80%	Good	2.4	18.1	0.0	0%	4.0	50.3	0.0	0%	EAB	None	Public- NH Feature	Save
AF	white oak	*Quercus alba*	15,22	0.80	0.80	0.75	78%	Good	2.4	18.1	0.0	0%	4.0	50.3	0.0	0%	GM defoliation	None	Public- NH Feature	Save
AG	white oak	*Quercus alba*	30	0.80	0.80	0.60	73%	Fair	2.4	18.1	0.0	0%	4.0	50.3	0.0	0%	dieback and defoliation	None	Public- NH Feature	Save
AH	white oak	*Quercus alba*	32x2	0.00	0.00	0.00	0%	Dead	-	-	0.0	0%	-	-	-	-		None	Public- NH Feature	Save
AI	basswood	*Tilia americana*	15,24,32	0.80	0.80	0.75	78%	Good	2.4	18.1	0.0	0%	4.0	50.3	0.0	0%	some insect defoliation	None	Public- NH Feature	Save
AJ	basswood	*Tilia americana*	12,17	0.75	0.80	0.80	78%	Good	2.4	18.1	0.0	0%	4.0	50.3	0.0	0%	epicormic branching at base	None	Public- NH Feature	Save
AK	white oak	*Quercus alba*	34	0.80	0.80	0.65	75%	Good	2.4	18.1	0.0	0%	4.0	50.3	0.0	0%	leaf defoliation, GM eggs	None	Public- NH Feature	Save
AL	shagbark hickory	*Carya ovata*	17.5	0.80	0.80	0.80	80%	Good	2.4	18.1	0.0	0%	4.0	50.3	0.0	0%	GM eggs. note ash regen, lots of Buckthorn not much evidence of oak or hickory regen	None	Public- NH Feature	Save
AM	basswood	*Tilia americana*	13	0.00	0.00	0.00	0%	Dead	2.4	18.1	0.0	0%	4.0	50.3	0.0	0%		None	Public- NH Feature	Save
AN	white oak	*Quercus alba*	23	0.65	0.40	0.40	48%	Poor	2.4	18.1	0.0	0%	4.0	50.3	0.0	0%	lower trunk epicormic branching	None	Public- NH Feature	Save
AO	basswood	*Tilia americana*	25	0.80	0.80	0.80	80%	Good	2.4	18.1	0.0	0%	4.0	50.3	0.0	0%		None	Public- NH Feature	Save
AP	basswood	*Tilia americana*	23,28	0.80	0.80	0.80	80%	Good	2.4	18.1	0.0	0%	4.0	50.3	0.0	0%	GM eggs	None	Public- NH Feature	Save
AQ	white oak	*Quercus alba*	29	0.80	0.80	0.65	75%	Good	2.4	18.1	0.0	0%	4.0	50.3	0.0	0%	dieback, defoliation	None	Public- NH Feature	Save
AR	basswood	*Tilia americana*	13,30	0.80	0.80	0.80	80%	Good	2.4	18.1	0.0	0%	4.0	50.3	0.0	0%	ravine edge	None	Public- NH Feature	Save
AS	white oak	*Quercus alba*	28	0.80	0.80	0.80	80%	Good	2.4	18.1	0.0	0%	4.0	50.3	0.0	0%	healthy com to others less defoliation	None	Public- NH Feature	Save
AT	white ash	*Fraxinus americana*	11	0.75	0.40	0.40	52%	Poor	2.4	18.1	0.0	0%	4.0	50.3	0.0	0%	EAB,top canopy dead	None	Public- NH Feature	Save
AU	American elm	*Ulmus americana*	18	0.80	0.65	0.40	62%	Poor	2.4	18.1	0.0	0%	4.0	50.3	0.0	0%	Sparse canopy branches, Common buckthorn competition	None	Public- NH Feature	Save
AV	Russian olive	*Elaeagnus angustifolia*	14,18,10.5	0.75	0.80	0.80	78%	Good	2.4	18.1	18.1	100%	4.0	50.3	50.3	100%	Multi-stem, included bark	Encroachment into mTPZ due to proposed future site developement	Public- ROW	Remove
AW	Russian olive	*Elaeagnus angustifolia*	2*10	0.75	0.80	0.80	78%	Good	2.4	18.1	18.1	100%	4.0	50.3	50.3	100%	Multi-stem, included bark	Encroachment into mTPZ due to proposed future site developement	Public- ROW	Remove
AX	Russian olive	*Elaeagnus angustifolia*	16,15	0.75	0.80	0.80	78%	Good	2.4	18.1	18.1	100%	4.0	50.3	50.3	100%	Multi-stem, included bark	Encroachment into mTPZ due to proposed future site developement	Public- ROW	Remove
AY	Russian olive	*Elaeagnus angustifolia*	15,14,20,15,23	0.75	0.80	0.80	78%	Good	2.4	18.1	18.1	100%	4.0	50.3	50.3	100%	Multi-stem, included bark	Encroachment into mTPZ due to proposed future site developement	Public- ROW	Remove
AZ	Russian olive	*Elaeagnus angustifolia*	14,14	0.75	0.80	0.80	78%	Good	2.4	18.1	18.1	100%	4.0	50.3	50.3	100%	Multi-stem, included bark	Encroachment into mTPZ due to proposed future site developement	Public- ROW	Remove
BB	Russian olive	*Elaeagnus angustifolia*	2*13	0.75	0.80	0.80	78%	Good	2.4	18.1	18.1	100%	4.0	50.3	50.3	100%	Multi-stem, included bark	Encroachment into mTPZ due to proposed future site developement	Public- ROW	Remove

GeoProcess RESEARCH ASSOCIATES
Knowledge Research Consulting
PO Box 65506
Dundas PO
Dundas, ON
L9H 6Y6
(416) 452-5037
www.geoprocessresearch.com

Legend

DBH	Diameter at Breast Height (cm)
TPZ	Tree Protection Zone
GOOD	Dead branches less than 10%; good compartmentalization on any wounds, no structural defects
FAIR	10-30% dead branches, size or occurrence of wounds present some concerns, minor structural defects.
POOR	More than 30% dead branches, weak compartmentalization, early leaf drop, presence of insects or disease, major structural defects.
DEAD	Tree shows no signs of life
Rating	(L) = light; (M) = moderate; (H) = heavy

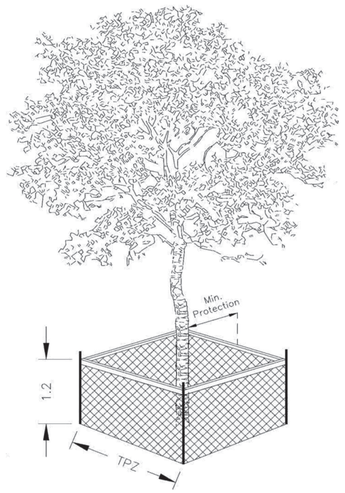
SEAL

No.	REVISIONS	DATE	INITIAL
01	ISSUED FOR REVIEW	05/06/2022	K.G.

Arborist Report
1450 King Road, Burlington
Tree Inventory table - 2

Scale:
Drawn By: S.G.
Drawing No. 03
Date Issued: 05/06/2022
Checked By: K.G.

Tree Protection and Preservation
Specification No.: SS12A



TREE PROTECTION BARRIER

Detail TP-1 – Tree Protection Detail.

Trunk Diameter (DBH) 2	Minimum Tree Protection Zone (MTPZ) Distances Required 3	Critical Root Zone (CRZ) Distances Required 3&4
< 10 cm	1.8 m	1.8 m
11 - 40 cm	2.4 m	4.0 m
41 - 50 cm	3.0 m	5.0 m
51 - 60 cm	3.6 m	6.0 m
61 - 70 cm	4.2 m	7.0 m
71 - 80 cm	4.8 m	8.0 m
81 - 90 cm	5.4 m	9.0 m
91 - 100+ cm	6.0 m	10.0 m

NOTES:

1 The roots of a tree can extend from the trunk to approximately 2-3 times the distance of the drip line.

2 Diameter at breast height (DBH) is the measurement of tree trunk taken at 1.4 metres above ground.

3 Minimum Tree Protection Zone and Critical Root Zone distances are to be measured from the outside edge of the tree base towards the drip line and may be limited by an existing paved surface, provided the existing paved surface remains intact throughout the construction work and is subject to Section 6 of this specification.

4 Where work is being performed beyond the Minimum Tree Protection Zone but within the Critical Root Zone the works are subject to Section 8 of this specification.

TREE PROTECTION BARRIER

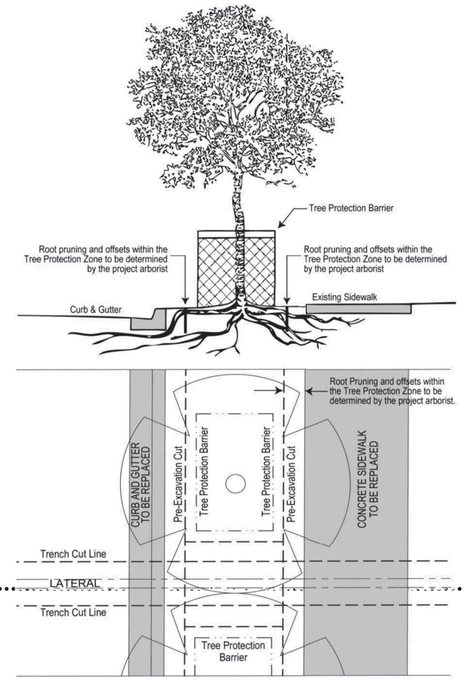
plastic web snow fencing creates a restriction to sightlines, page wire fencing with reflective tape can be used.

2. Tree protection barriers are to be erected prior to the commencement of any construction or grading activities on the site and are to remain in place throughout the entire duration of the project. The barriers shall be maintained erect and in good repair throughout the duration of construction operations with breaks and unsupported sections repaired immediately. Tree protection may be not be removed prior to the completion of construction without written authorization from the Manager of Urban Forestry or designate.
3. All supports and bracing used to safely secure the barrier should be located outside the MTPZ. All supports and bracing should minimize damage to roots.
4. Where some fill or excavated material must be temporarily located near a MTPZ, a wooden barrier with silt fencing must be used to ensure no material enters the MTPZ.
5. No materials or fill may be stored within the MTPZ.
6. Equipment or vehicles shall not be operated, parked, repaired, or refueled within the MTPZ.
7. No construction activity, grade changes, surface treatment or excavations of any kind is permitted within the MTPZ without written authorization from the Manager of Urban Forestry or designate.

must be attached to the side of the Tree Protection where it will be visible by persons entering the site.

Tree Protection and Preservation
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Detail TP-2 – Root Pruning Detail



NOTE:
For excavations perpendicular to to the curbing (ie. sidewalk, curbing, water or sewer laterals renewal)

(a) The contractor is to use a trench box to minimize the width of the open cut.
(b) When the lateral replacement is within the Tree Protection Zone of a tree, the contractor is to complete the works using trenchless technologies.

City of Burlington

TREE PROTECTION ZONE (TPZ)

No equipment or vehicles shall be operated, parked, repaired or refueled within the Tree Protection Zone.

No construction activity, grade changes, surface treatment or excavations of any kind is permitted within the Tree Protection Zone.

No materials or fill may be stored within the Tree Protection Zone.

This tree protection barrier must not be removed prior to the completion of construction without written authorization from the City of Burlington, Urban Forestry Department.

For information, contact:
City of Burlington, Development and Infrastructure Division,
905-335-7642.

Notes:

The proponent is to be made aware of the following notes:

1. The Private Tree By-law is applicable to subject properties within the Urban Planning Boundary and the City Public Tree By-law is applicable City-wide. Private trees that are regulated and require removal or injury to facilitate projects works may require a tree permit depending on the timing of project works relative to planning application(s). Please consult with the City at all stages of your project (e.g., demolition) to ensure compliance.
2. A qualified professional (as defined in the City of Burlington's Pre-submission Checklist) is required to be retained to address potential impact on the existing trees on site during excavation operations to ensure no damage to the protected trees or their root systems.
3. The Owner is to be aware of the Migratory Birds Convention Act, 1994. This Act is implemented by Environment Canada and the Owner is to make every effort to avoid removal of vegetation from the period of October 1st and March 31st".

GeoProcess RESEARCH ASSOCIATES
Knowledge Research Consulting
PO Box 65506
Dundas PO
Dundas, ON
L9H 6Y6
(416) 452-5037
www.geoprocessresearch.com

DRAFT
NOT FOR CONSTRUCTION

SEAL

No.	REVISIONS	DATE	INITIAL
01	ISSUED FOR REVIEW	05/06/2022	K.G.

Arborist Report
1450 King Road, Burlington
Tree Protection Details

Scale: as shown | Drawn By: S.G. | Drawing No. 04
Date Issued: 05/06/2022 | Checked By: K.G.