Hazard Tree Assessment
Barrie Collingwood Railway Active Transportation Trail

County of Simcoe
1110 Highway 26
Midhurst ON L9X 1N6

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Barrie ON L4N 8J6 CANADA

June 30, 2022
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Distribution List

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Record of Revisions

Revision	Date	Description
0	June 30, 2022	First Submission

R.J. Burnside & Associates Limited

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Appendices

Disclaimer

1.0 Introduction

R.J. Burnside & Associates Limited (Burnside) has been retained by the County of Simcoe to prepare a Hazard Tree Assessment for the proposed multi-use trail from Stayner to Angus, within the jurisdiction of the Nottawasaga Valley Conservation Authority (NVCA). The proposed trail will be converted from a section of an abandoned railway corridor that is approximately 23 km long, crossing Clearview and Essa Townships. The multi-use trail will connect Stayner, Sunnidale, New Lowell and Angus.

The intent of the report and the associated figures and appendices is to provide an analysis and mapping of high-risk trees within and immediately adjacent to the existing rail corridor that may be a risk to trail users or adjacent lands. Best management practices are provided to reduce impacts to remaining trees and natural heritage features.

2.0 Study Area

The study area is approximately 23 km of abandoned railway corridor. The corridor crosses a wide range of land use, including rolling agricultural lands, mixed wood forests, pine plantations, suburban, and exurban communities. The proposed trail crosses 32 watercourses, including the Nottawasaga River at the east end of the corridor in Angus, Ontario.

3.0 Methodology

The tree inventory and assessment were completed by ISA Certified Arborists on November 4, 5, and 8, 2021. Tree data were collected using ESRI Collector during the site investigation.

The following data were collected for each high-risk tree within and immediately adjacent to the former rail corridor and (including the road ROW): :

- Species (Scientific and Common Name);
- Diameter at Breast Height - DBH (cm);
- Condition (Good, Fair, Poor, or Dead); and
- Additional comments (to supplement condition or location notes).

Tree assessment data is provided in Appendix A, and the locations of the assessed trees are provided in the Figures. The methodology and limitations of this tree assessment are provided in Appendix B and Appendix C, respectively.

4.0 Findings

A total of 529 trees were individually assessed based on their poor biological and structural conditions.

Photo 1: Rail corridor south of New Lowell, looking southeast

Photo 2: Tree no. T170, privately owned at 2452 9/10 Sideroad, Sunnidale, Clearview

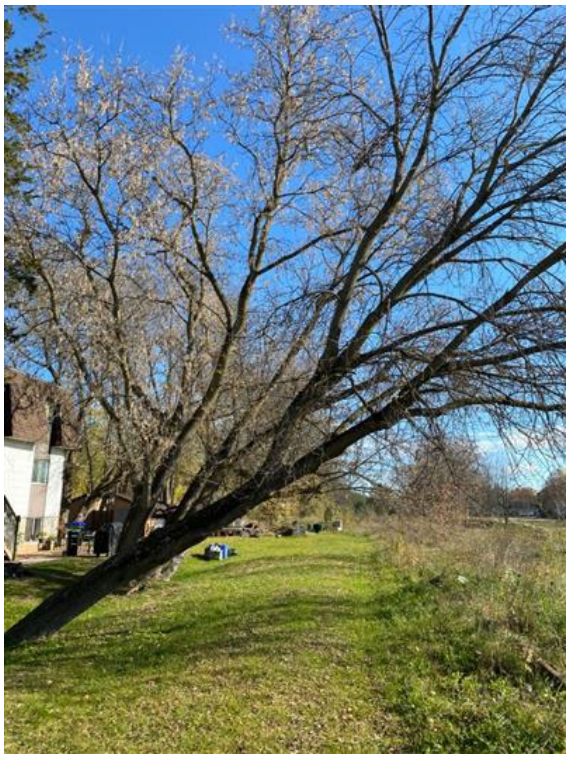

Photo 3: Tree No. T476, publicly owned, adjacent to 110 King Street, Angus

Photo 4: Tree No. T483, privately owned at Gold Park Gate in Angus, adjacent to the Nottawasaga River, within lands regulated by the NVCA

Photo 5: Tree no. T518, publicly owned, adjacent to 244 Cindy Lane, Angus

4.1 Trees Recommended for Removal

A total of 529 trees are recommended for removal due to their poor condition ratings and are considered high-risk, including 158 offsite and shared trees recommended for removal. Landowner consent to remove these trees and permission to enter the properties will be required. These high-risk trees were included due to their location within striking distance of the trail corridor lands.

Tree nos. T403 and T502 are butternuts, a Species at Risk that is protected by the Endangered Species Act and a Butternut Health Assessment completed during the leaf-on season is required. Removal and injuries of this species requires registration in consultation with the Ministry of Environment, Conservation and Parks (MECP).

Species of Ash trees were observed to be in various states of decline due to Emerald Ash Borer (EAB) infestations. Future monitoring is recommended for Ash trees remaining near trail as EAB infestations progress. Seemingly healthy Ash trees will succumb to EAB rapidly, becoming high-risk trees adjacent to the multi-use trail over time.

5.0 Recommendations and Requirements

- To reduce the risk of contravening the Migratory Bird Convention Act, timing constraints shall be applied to avoid any limited vegetation clearing (including grubbing) and / or structure works (construction) during the breeding bird period broadly from April 1 to August 31 for most species (regardless of the calendar year).

- Active nests (nests with eggs or young birds) of protected migratory birds, including Species at Risk (SAR) protected under the Endangered Species Act (ESA), cannot be destroyed at any time of the year. The destruction of inactive nests for some species may also be prohibited (e.g., Barn Swallow, Osprey, Great Blue Heron).

- Trees within and immediately adjacent to wooded areas may support maternity roosts for Species at Risk bats. Removal of trees in these areas are recommended to occur November 1 to March 31 to avoid potential impacts to bats.

- If the construction activities are such that continuing construction in the area would result in harm to wildlife, construction activities in that location shall temporarily stop and a qualified ecologist shall be contacted for direction.

- Changes to tree structure and health will occur over time since the tree inventory for this study took place in November of 2021 and this inventory represents the conditions at that time. Additional tree investigations may be required by an ISA Certified Arborist after the construction of the multiuse trail to determine if further removals are required within striking distance of the trail.

- Trees should be felled so that they fall into the trail lands to avoid damage to retained trees, including both trunks and roots.

- All retained trees should be reviewed following construction to determine if additional mitigative measures such as pruning is required to reduce risk to trail users and adjacent lands.

- Ongoing tree inspection is recommended to occur annually, at minimum, to monitor for additional high risk trees.

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Figures

BARRIE-COLLINGWOOD RAIL TRAIL

NVCA REGULATED AREA

BROCK STREET IMPROVEMENTS

STAYER STAGING AREA & EV CHARGING STATION

MAIN STREET (HIGHWAY 26)

RAIL CROSSES SIDEWALK AND ROAD DISCONTINUE SIDEWALK AND ROAD

SUPERIOR STREET

MATCHLINE AT STATION 0+240

EX. 400mm CSP FAIR CONDITION

EX. 800mm CONC

EX. 800mm CSP FAIR CONDITION

EX CB IN EX TRAIL

POTENTIAL WATERMAIN CROSSING

EX DRIVEWAY CROSSING RAIL

EX. 600mm CSP FAIR CONDITION

EX. PATH OVER RAIL

EX. 1800mm CONC FAIR CONDITION ARCH INLET CSP EXTENSION OUTLET NE INV. 211.03 - SW INV. 211.21 -

EX DRIVEWAY CROSSING RAIL

MATCHLINE AT STATION 0+480

SIDEROAD 21 & 22 NOTTAWASAGA

CENTRE LINE ROAD CROSSING - CLEARVIEW TRAFFIC STUDY RECOMMENDS TRAFFIC CALMING MEASURES

EX. 600mm CSP FAIR CONDITION NORTH SIDE BENT

EX. 1100mm CONC FAIR CONDITION

CENTRELINE ROAD

MATCHLINE AT STATION 0+720

EX. WATER SERVICE EXCELLENT CONDITION

EX. WM TRACER WIRE

FIELD ACCESS CROSSING RAIL

EX. 3X 1200mm CSP GOOD CONDITION

CONCESSION RD 9 SUNNIDALE

EX. 3000mm BOX CULV

FIELD ENTRANCE ACROSS RAIL

EX. 1000mm CONC FAIR CONDITION NE INV. UNKNW SW INV. 215.31

EX. 1000mm CONC FAIR CONDITION NW INV. UNKNOW SW INV. 215.20

WOOD LAID ACROSS RAIL

EX. WM TRACER WIRE

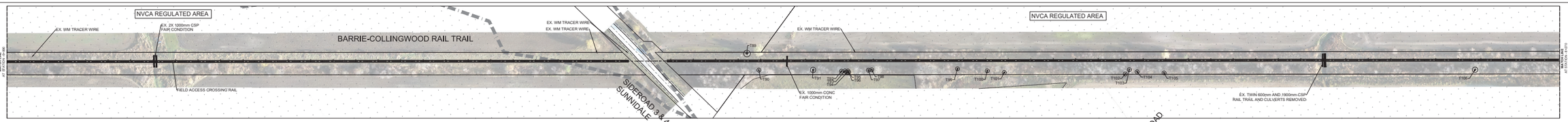
FIELD ACCESS CROSSING RAIL

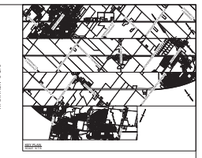
EX. 900mm CONC FAIR CONDITION

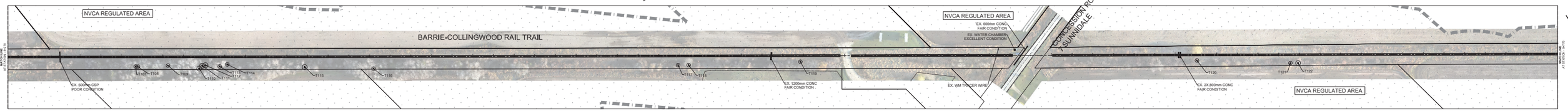
EX. WATER VALVE EXCELLENT CONDITION

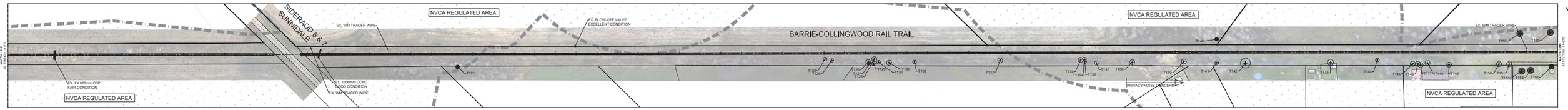
EX. WM TRACER WIRE

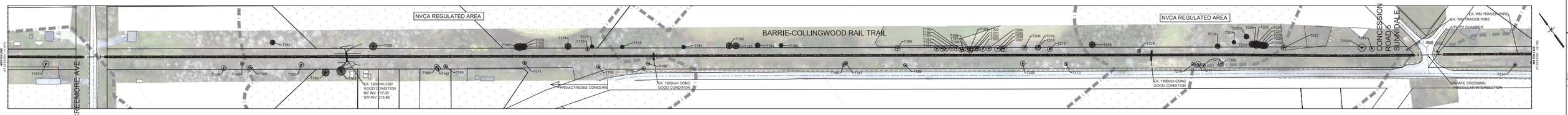
MATCHLINE AT STATION 1+080


NVCA REGULATED AREA
EX. WM TRACER WIRE
EX. 2X 1000mm CSP
FAIR CONDITION
BARRIE-COLLINGWOOD RAIL TRAIL
FIELD ACCESS CROSSING RAIL
SIDEROAD 3 & 4
SUNNIDALE
EX. WM TRACER WIRE
EX. WM TRACER WIRE
EX. WM TRACER WIRE
EX. 1000mm CONC
FAIR CONDITION
NVCA REGULATED AREA
EX. TWIN 600mm AND 1900mm CSP
RAIL TRAIL AND CULVERTS REMOVED
MATCH LINE
AT STATION 1+240
MATCH LINE
AT STATION 1+420




NVCA REGULATED AREA
BARRIE-COLLINGWOOD RAIL TRAIL
EX. 300mm CSP
POOR CONDITION
EX. 1200mm CONC
FAIR CONDITION
NVCA REGULATED AREA
EX. 600mm CONC
FAIR CONDITION
EX. WATER CHAMBER
EXCELLENT CONDITION
CONCESSION ROAD
7 SUNNIDALE
EX. WM TRACER WIRE
EX. 2X 800mm CONC
FAIR CONDITION
NVCA REGULATED AREA
MATCH LINE
AT STATION 1+420
MATCH LINE
AT STATION 1+600


SIDEROAD 6 & 7
SUNNIDALE
NVCA REGULATED AREA
EX. WM TRACER WIRE
EX. BLOW-OFF VALVE
EXCELLENT CONDITION
BARRIE-COLLINGWOOD RAIL TRAIL
NVCA REGULATED AREA
EX. WM TRACER WIRE
EX. 2X 800mm CSP
FAIR CONDITION
EX. 1000mm CONC
GOOD CONDITION
EX. WM TRACER WIRE
PRIVACY/NOISE CONCERN
NVCA REGULATED AREA
MATCH LINE
AT STATION 1+600
MATCH LINE
AT STATION 1+780


NVCA REGULATED AREA
BARRIE-COLLINGWOOD RAIL TRAIL
NVCA REGULATED AREA
CREEMORE AVE
EX. 1200mm CSP
GOOD CONDITION
NE INV. 217.03
SW INV. 215.88
PRIVACY/NOISE CONCERN
EX. 1300mm CONC
GOOD CONDITION
EX. 1300mm CONC
GOOD CONDITION
CONCESSION
ROAD 6
SUNNIDALE
EX. WM TRACER WIRE
EX. WM TRACER WIRE
EX. UTILITY CHAMBER
UNSAFE CROSSING
IRREGULAR INTERSECTION
MATCH LINE
AT STATION 1+780
MATCH LINE
AT STATION 1+960

NVCA REGULATED AREA

GREGGAGE ROAD

EX. WM TRACER WIRE

EX. 1300mm CSP
GOOD CONDITION
N INV. 212.16
S INV. 211.21

EX. 1000mm CSP
GOOD CONDITION
N INV. 209.22
S INV. 210.53

PRIVACY/NOISE CONCERN

EX. WOOD PATH CROSSES RAIL

COUNTY ROAD 9

NEW LOWELL STAGING AREA

BARRIE-COLLINGWOOD RAIL TRAIL

COUNTY ROAD 9 CROSSING
RAIL CROSSING ARTERIAL ROAD

TRIPLE ARCH CONCRETE
CULVERT STRUCTURE
FAIR CONDITION

EX. 600mm CSP
GOOD CONDITION
STEEP AND ERODED FORESLOPE
HEADWALL AT SOUTH SIDE OF CULVERT
NE INV. 195.33
SW INV. 197.35

MATCHLINE
AT STATION 1+100

EX. 300mm PVC
EXCELLENT CONDITION
EXPOSED (NO COVER)

EX. 300mm PVC
EXCELLENT CONDITION
EXPOSED (NO COVER)

EX. PATH CROSSES RAIL

EX. BLOW-OFF VALVE

EX. EQUIPMENT AND LOGS ADJACENT TO RAIL

SIDEROAD 12 & 13

EX. 500mm CSP
POOR CONDITION

MATCHLINE
AT STATION 1+200

MATCHLINE
AT STATION 1+300

CONCESSION ROAD 7 SUNNIDALE

EX. 1300mm ARCH CONC
FAIR CONDITION
OPEN BOTTOM
FILLED WITH SILT

EX. 1000mm ARCH CONC
POOR CONDITION
FILLED WITH SILT

EX. WATER VALVE
EXCELLENT CONDITION

EX. LOG PATHWAY OVER RAILS

EX. 2X 600mm CSP
GOOD CONDITION

EX. 2000mm CSP
POOR CONDITION
BEAVER DAMMED UP AT INLET

EX. BEAVER DAM

2X UTILITY MH

MCCARTHY ROAD

UNSAFE CROSSING
- IRREGULAR INTERSECTION

EX. 500mm CSP
POOR CONDITION
OUTLET BURIED

POTENTIAL PARKING AREA

MATCHLINE
AT STATION 1+400

MATCHLINE
AT STATION 1+500

HT 3

EX. WM TRACER WIRE
EX. WM TRACER WIRE
EX. WM TRACER WIRE
EX. 600mm CSP
FAIR CONDITION
FILLED WITH SILT
EX. UNKWN CSP
POOR CONDITION
SUBMERGED AND FILLED WITH SILT
BARRIE-COLLINGWOOD RAIL TRAIL
NVCA REGULATED AREA
POTENTIAL PARKING AREA
SUNNIDALE TO SOPHIASBURG TOWNLINE
NVCA REGULATED AREA
MAD RIVER BRIDGE
FAIR CONDITION
15m SPAN
NVCA REGULATED AREA
EX. WM TRACER WIRE
EX. WM TRACER WIRE
EX. WM TRACER WIRE
BARRIE-COLLINGWOOD RAIL TRAIL
EX. WM TRACER WIRE
EX. 600mm BLOW-OFF VALVE
EX. WM TRACER WIRE
EX. WM TRACER WIRE
EX. WM TRACER WIRE
BARRIE-COLLINGWOOD RAIL TRAIL
EX. 600mm WM VALVE
ALLISON-COLLINGWOOD TRANSMISSION LINE
EX. WM TRACER WIRE
NVCA REGULATED AREA
NVCA REGULATED AREA
MILL STREET
EX. 700mm CSP
POOR CONDITION
SAG IN MIDDLE AND
STEEL CAP AT OUTLET
RECENT INTERSECTION IMPROVEMENTS
BARRIE-COLLINGWOOD RAIL TRAIL
CROSS STREET
EX. 1500mm ARCH CONC
POOR CONDITION
MILL STREET CROSSING
- 4-LANE ROAD CROSSING
- AADT = 14,000
PINE RIVER BRIDGE
FAIR CONDITION
18m SPAN
BARRIE-COLLINGWOOD RAIL TRAIL
EX. 1500mm ARCH CONC
POOR CONDITION
ANGUS STAGING AREA
ALMA STREET
EX. 1500mm ARCH CONC
POOR CONDITION
NOTTAWASAGA RIVER BRIDGE
FAIR CONDITION
44m SPAN
NVCA REGULATED AREA
GREENWOOD DRIVE
EX. 900mm CSP
GOOD CONDITION
ADDITIONAL DRAINING
GREENWOOD DRIVE NOW CONNECTS
TO MAINE STREET
EX. 900mm CSP
GOOD CONDITION
SAG IN MIDDLE OF GREENWOOD DRIVE
NVCA REGULATED AREA
EX. 1500mm ARCH CONC
POOR CONDITION
ERODED INSIDE INLET
N INV. 190.37
S INV. 190.42
BARRIE-COLLINGWOOD RAIL TRAIL
LINE 5
EX. 1750mm CSP
EXCELLENT CONDITION
3m EXTENSION AT OUTLET

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Appendix A

Tree Assessment Data

Tree ID	Scientific Name	Common Name	DBH (cm)	Condition	Comments
T1	*Populus tremuloides*	Trembling Aspen	31	Dead	
T2	*Populus tremuloides*	Trembling Aspen	20	Dead	
T3	*Acer saccharum*	Sugar Maple	27	Dead	
T4	*Acer saccharum*	Sugar Maple	28	Dead	
T5	*Populus tremuloides*	Trembling Aspen	32	Dead	
T6	*Populus tremuloides*	Trembling Aspen	20	Dead	
T7	*Populus tremuloides*	Trembling Aspen	24	Poor	Crown dieback (high)
T8	*Populus tremuloides*	Trembling Aspen	32	Dead	
T9	*Populus tremuloides*	Trembling Aspen	32	Dead	
T10	*Populus tremuloides*	Trembling Aspen	21	Dead	
T11	*Populus tremuloides*	Trembling Aspen	34	Dead	
T12	*Ulmus americana*	White Elm	19	Dead	
T13	*Populus tremuloides*	Trembling Aspen	42	Poor	Crown dieback (high), Ganoderma applanatum
T14	*Populus tremuloides*	Trembling Aspen	30	Dead	
T15	*Ulmus americana*	White Elm	20	Dead	
T16	*Fraxinus pennsylvanica var. subintegerrima*	Green Ash	35	Poor	Crown dieback (high)
T17	*Ulmus americana*	White Elm	14	Dead	
T18	*Populus tremuloides*	Trembling Aspen	32	Dead	
T19	*Acer negundo*	Manitoba Maple	64	Poor	Pholiota squarrosa, included bark (moderate), crown dieback (moderate)
T20	*Populus tremuloides*	Trembling Aspen	38	Dead	
T21	*Populus tremuloides*	Trembling Aspen	15	Dead	
T22	*Populus tremuloides*	Trembling Aspen	15	Dead	
T23	*Populus tremuloides*	Trembling Aspen	15	Dead	
T24	*Populus tremuloides*	Trembling Aspen	14	Dead	
T25	*Populus tremuloides*	Trembling Aspen	29	Dead	
T26	*Populus tremuloides*	Trembling Aspen	21	Dead	
T27	*Populus tremuloides*	Trembling Aspen	27	Dead	
T28	*Ulmus americana*	White Elm	19	Dead	
T29	*Populus tremuloides*	Trembling Aspen	27	Dead	
T30	*Populus tremuloides*	Trembling Aspen	25	Dead	
T31	*Ulmus americana*	White Elm	24	Dead	
T32	*Populus tremuloides*	Trembling Aspen	21	Dead	
T33	*Fraxinus pennsylvanica var. subintegerrima*	Green Ash	22	Dead	
T34	*Populus tremuloides*	Trembling Aspen	19	Dead	
T35	*Populus tremuloides*	Trembling Aspen	20	Dead	
T36	*Populus tremuloides*	Trembling Aspen	20	Dead	
T37	*Populus tremuloides*	Trembling Aspen	18	Dead	
T38	*Populus tremuloides*	Trembling Aspen	18	Dead	
T39	*Fraxinus pennsylvanica var. subintegerrima*	Green Ash	19	Poor	Crown dieback (high)
T40	*Populus tremuloides*	Trembling Aspen	18	Dead	
T41	*Populus tremuloides*	Trembling Aspen	38	Poor	Crown dieback (high)
T42	*Ulmus americana*	White Elm	25	Dead	
T43	*Populus tremuloides*	Trembling Aspen	44	Poor	Crown dieback (high)
T44	*Populus tremuloides*	Trembling Aspen	24	Dead	
T45	*Fraxinus pennsylvanica var. subintegerrima*	Green Ash	28	Poor	Crown dieback (high)
T46	*Populus tremuloides*	Trembling Aspen	17	Poor	Crown dieback (high)
T47	*Populus tremuloides*	Trembling Aspen	27	Poor	Crown dieback (high)
T48	*Populus tremuloides*	Trembling Aspen	29	Dead	
T49	*Populus tremuloides*	Trembling Aspen	16	Dead	
T50	*Fraxinus pennsylvanica var. subintegerrima*	Green Ash	45	Poor	Crown dieback (high)
T51	*Ulmus americana*	White Elm	28	Poor	Crown dieback (high)
T52	*Fraxinus pennsylvanica var. subintegerrima*	Green Ash	34	Poor	Crown dieback (high)
T53	*Fraxinus pennsylvanica var. subintegerrima*	Green Ash	41	Poor	Crown dieback (high)
T54	*Fraxinus pennsylvanica var. subintegerrima*	Green Ash	30	Poor	Crown dieback (high)
T55	*Fraxinus pennsylvanica var. subintegerrima*	Green Ash	45	Poor	Crown dieback (high)

Tree ID	Scientific Name	Common Name	DBH (cm)	Condition	Comments
T56	*Fraxinus pennsylvanica var. subintegerrima*	Green Ash	30	Poor	Crown dieback (high)
T57	*Fraxinus pennsylvanica var. subintegerrima*	Green Ash	35	Poor	Crown dieback (high)
T58	*Fraxinus pennsylvanica var. subintegerrima*	Green Ash	40	Poor	Crown dieback (high)
T59	*Fraxinus pennsylvanica var. subintegerrima*	Green Ash	30	Poor	Crown dieback (high)
T60	*Fraxinus pennsylvanica var. subintegerrima*	Green Ash	36	Poor	Crown dieback (high)
T61	*Acer negundo*	Manitoba Maple	38	Poor	Lean (high), trunk damage (moderate)
T62	*Fraxinus pennsylvanica var. subintegerrima*	Green Ash	31	Poor	Crown dieback (high)
T63	*Fraxinus pennsylvanica var. subintegerrima*	Green Ash	23	Poor	Crown dieback (high)
T64	*Fraxinus pennsylvanica var. subintegerrima*	Green Ash	26	Poor	Crown dieback (high)
T65	*Acer negundo*	Manitoba Maple	25	Poor	Lean (high)
T66	*Populus tremuloides*	Trembling Aspen	25	Dead	
T67	*Populus tremuloides*	Trembling Aspen	35	Dead	
T68	*Fraxinus pennsylvanica var. subintegerrima*	Green Ash	37	Poor	Crown dieback (high)
T69	*Ulmus americana*	White Elm	20	Dead	
T70	*Ulmus americana*	White Elm	48	Dead	
T71	*Populus tremuloides*	Trembling Aspen	18	Dead	
T72	*Fraxinus pennsylvanica var. subintegerrima*	Green Ash	30	Poor	Crown dieback (high)
T73	*Ulmus americana*	White Elm	14	Dead	
T74	*Populus tremuloides*	Trembling Aspen	31	Dead	
T75	*Populus tremuloides*	Trembling Aspen	31	Dead	
T76	*Populus tremuloides*	Trembling Aspen	30	Poor	Crown dieback (high)
T77	*Fraxinus pennsylvanica var. subintegerrima*	Green Ash	37	Poor	Crown dieback (high)
T78	*Ulmus americana*	White Elm	27	Dead	
T79	*Populus tremuloides*	Trembling Aspen	32	Dead	
T80	*Fraxinus pennsylvanica var. subintegerrima*	Green Ash	20	Poor	Crown dieback (high)
T81	*Populus tremuloides*	Trembling Aspen	31	Dead	
T82	*Populus tremuloides*	Trembling Aspen	19	Dead	
T83	*Populus tremuloides*	Trembling Aspen	30	Poor	Crown dieback (high)
T84	*Populus tremuloides*	Trembling Aspen	26	Dead	
T85	*Populus tremuloides*	Trembling Aspen	33	Dead	
T86	*Ulmus americana*	White Elm	24	Dead	
T87	*Populus tremuloides*	Trembling Aspen	26	Dead	
T88	*Ulmus americana*	White Elm	27	Dead	
T89	*Populus alba*	European White Poplar	47	Poor	Crown dieback (high)
T90	*Populus tremuloides*	Trembling Aspen	23	Poor	Crown dieback (high)
T91	*Ulmus americana*	White Elm	33	Dead	
T92	*Ulmus americana*	White Elm	20	Dead	
T93	*Ulmus americana*	White Elm	20	Dead	
T94	*Ulmus americana*	White Elm	20	Dead	
T95	*Ulmus americana*	White Elm	20	Dead	
T96	*Ulmus americana*	White Elm	20	Dead	
T97	*Acer saccharum*	Sugar Maple	24	Dead	
T98	*Acer saccharum*	Sugar Maple	18	Dead	
T99	*Ulmus americana*	White Elm	20	Dead	
T100	*Ulmus americana*	White Elm	16	Dead	
T101	*Ulmus americana*	White Elm	23	Dead	
T102	*Ulmus americana*	White Elm	20	Dead	
T103	*Ulmus americana*	White Elm	20	Dead	
T104	*Ulmus americana*	White Elm	20	Dead	
T105	*Ulmus americana*	White Elm	27	Dead	
T106	*Acer negundo*	Manitoba Maple	40	Poor	Crown dieback (moderate), lean (high)
T107	*Populus tremuloides*	Trembling Aspen	20	Dead	
T108	*Populus tremuloides*	Trembling Aspen	20	Dead	
T109	*Populus tremuloides*	Trembling Aspen	26	Poor	Crown dieback (high)
T110	*Populus tremuloides*	Trembling Aspen	30	Dead	

Tree ID	Scientific Name	Common Name	DBH (cm)	Condition	Comments
T111	*Populus tremuloides*	Trembling Aspen	30	Dead	
T112	*Populus tremuloides*	Trembling Aspen	30	Dead	
T113	*Populus tremuloides*	Trembling Aspen	24	Dead	
T114	*Populus tremuloides*	Trembling Aspen	14	Dead	
T115	*Populus tremuloides*	Trembling Aspen	36	Poor	Crown dieback (high)
T116	*Populus tremuloides*	Trembling Aspen	26	Poor	Crown dieback (high)
T117	*Ulmus americana*	White Elm	23	Dead	
T118	*Ulmus americana*	White Elm	29	Dead	
T119	*Ulmus americana*	White Elm	19	Dead	
T120	*Ulmus americana*	White Elm	26	Dead	
T121	*Ulmus americana*	White Elm	19	Dead	
T122	*Ulmus americana*	White Elm	32	Dead	
T123	*Populus tremuloides*	Trembling Aspen	22	Poor	Crown dieback (high)
T124	*Populus tremuloides*	Trembling Aspen	20	Poor	Crown dieback (high)
T125	*Fraxinus pennsylvanica var. subintegerrima*	Green Ash	21	Poor	Crown dieback (high)
T126	*Populus tremuloides*	Trembling Aspen	30	Dead	
T127	*Fraxinus pennsylvanica var. subintegerrima*	Green Ash	24	Poor	Crown dieback (high)
T128	*Populus tremuloides*	Trembling Aspen	30	Dead	
T129	*Populus tremuloides*	Trembling Aspen	23	Dead	
T130	*Populus tremuloides*	Trembling Aspen	26	Dead	
T131	*Populus tremuloides*	Trembling Aspen	30	Dead	
T132	*Fraxinus pennsylvanica var. subintegerrima*	Green Ash	26	Poor	Crown dieback (high)
T133	*Fraxinus pennsylvanica var. subintegerrima*	Green Ash	33	Poor	Crown dieback (high)
T134	*Fraxinus pennsylvanica var. subintegerrima*	Green Ash	34	Poor	Crown dieback (high)
T135	*Ulmus americana*	White Elm	21	Dead	
T136	*Ulmus americana*	White Elm	21	Dead	
T137	*Fraxinus pennsylvanica var. subintegerrima*	Green Ash	22	Poor	Crown dieback (high)
T138	*Fraxinus pennsylvanica var. subintegerrima*	Green Ash	35	Poor	Crown dieback (high)
T139	*Fraxinus pennsylvanica var. subintegerrima*	Green Ash	40	Poor	Crown dieback (high)
T140	*Populus tremuloides*	Trembling Aspen	27	Dead	
T141	*Populus tremuloides*	Trembling Aspen	27	Dead	
T142	*Fraxinus pennsylvanica var. subintegerrima*	Green Ash	74	Poor	Crown dieback (high), buttress damage (moderate)
T143	*Fraxinus pennsylvanica var. subintegerrima*	Green Ash	41	Poor	Crown dieback (high)
T144	*Populus tremuloides*	Trembling Aspen	25	Poor	Crown dieback (high), trunk damage (high)
T145	*Fraxinus pennsylvanica var. subintegerrima*	Green Ash	31	Poor	Crown dieback (high)
T146	*Fraxinus pennsylvanica var. subintegerrima*	Green Ash	39	Poor	Crown dieback (high)
T147	*Fraxinus pennsylvanica var. subintegerrima*	Green Ash	37	Poor	Crown dieback (high)
T148	*Fraxinus pennsylvanica var. subintegerrima*	Green Ash	37	Poor	Crown dieback (high)
T149	*Fraxinus pennsylvanica var. subintegerrima*	Green Ash	33	Poor	Crown dieback (high)
T150	*Fraxinus pennsylvanica var. subintegerrima*	Green Ash	32	Poor	Crown dieback (high)
T151	*Fraxinus pennsylvanica var. subintegerrima*	Green Ash	33	Poor	Crown dieback (high)
T152	*Fraxinus pennsylvanica var. subintegerrima*	Green Ash	43	Poor	Crown dieback (high)
T153	*Fraxinus pennsylvanica var. subintegerrima*	Green Ash	49	Poor	Crown dieback (high), included bark (moderate)
T154	*Fraxinus pennsylvanica var. subintegerrima*	Green Ash	45	Poor	Crown dieback (high), lean (low)
T155	*Fraxinus pennsylvanica var. subintegerrima*	Green Ash	44	Poor	Crown dieback (high)
T156	*Fraxinus pennsylvanica var. subintegerrima*	Green Ash	34	Poor	Crown dieback (high)
T157	*Fraxinus pennsylvanica var. subintegerrima*	Green Ash	41	Poor	Crown dieback (high)
T158	*Populus tremuloides*	Trembling Aspen	36	Dead	
T159	*Populus tremuloides*	Trembling Aspen	23	Fair-Poor	Crown dieback (high)
T160	*Fraxinus pennsylvanica var. subintegerrima*	Green Ash	25	Poor	Crown dieback (high), lean (moderate)
T161	*Populus tremuloides*	Trembling Aspen	30	Dead	
T162	*Ulmus americana*	White Elm	35	Poor	Lean (high), crown dieback (moderate)
T163	*Salix fragilis*	Crack Willow	55	Poor	Lean (high), crown dieback (high)
T164	*Salix fragilis*	Crack Willow	65	Fair	Lean (high)
T165	*Salix fragilis*	Crack Willow	52	Poor	Uprooted

Tree ID	Scientific Name	Common Name	DBH (cm)	Condition	Comments
T166	*Acer negundo*	Manitoba Maple	38	Dead	
T167	*Acer negundo*	Manitoba Maple	39	Dead	
T168	*Prunus serotina*	Black Cherry	24	Dead	
T169	*Populus balsamifera*	Balsam Poplar	46	Poor	Crown dieback (high), deadwood (high), Trunk cracking (moderate)
T170	*Populus balsamifera*	Balsam Poplar	53	Poor	Crown dieback (high), deadwood (high), Trunk cracking (moderate)
T171	*Populus tremuloides*	Trembling Aspen	18	Dead	
T172	*Populus balsamifera*	Balsam Poplar	46	Poor	Crown dieback (high), deadwood (high), Trunk cracking (moderate)
T173	*Populus balsamifera*	Balsam Poplar	50	Poor	Crown dieback (high), deadwood (high), Trunk cracking (moderate)
T174	*Populus balsamifera*	Balsam Poplar	48	Poor	Crown dieback (high), deadwood (high), Trunk cracking (moderate)
T175	*Populus tremuloides*	Trembling Aspen	26	Dead	
T176	*Populus tremuloides*	Trembling Aspen	22	Dead	
T177	*Populus tremuloides*	Trembling Aspen	24	Dead	
T178	*Ulmus americana*	White Elm	15	Dead	
T179	*Populus tremuloides*	Trembling Aspen	28	Dead	
T180	*Populus tremuloides*	Trembling Aspen	15	Dead	
T181	*Ulmus americana*	White Elm	24	Dead	Snag caught on tree
T182	*Populus balsamifera*	Balsam Poplar	48	Poor	Crown dieback (high), deadwood (high), Trunk cracking (moderate)
T183	*Populus balsamifera*	Balsam Poplar	50	Poor	Crown dieback (high), deadwood (high), Trunk cracking (moderate)
T184	*Populus balsamifera*	Balsam Poplar	37	Poor	Crown dieback (high)
T185	*Populus tremuloides*	Trembling Aspen	26	Dead	
T186	*Fraxinus pennsylvanica var. subintegerrima*	Green Ash	25	Dead	
T187	*Fraxinus pennsylvanica var. subintegerrima*	Green Ash	25	Dead	
T188	*Populus balsamifera*	Balsam Poplar	40	Poor	Crown dieback (high)
T189	*Populus tremuloides*	Trembling Aspen	26	Dead	
T190	*Populus balsamifera*	Balsam Poplar	40	Dead	
T191	*Populus balsamifera*	Balsam Poplar	40	Dead	
T192	*Populus balsamifera*	Balsam Poplar	40	Dead	
T193	*Populus balsamifera*	Balsam Poplar	40	Dead	
T194	*Ulmus americana*	White Elm	30	Dead	
T195	*Populus balsamifera*	Balsam Poplar	40	Poor	Crown dieback (high)
T196	*Populus balsamifera*	Balsam Poplar	40	Poor	Crown dieback (high)
T197	*Populus balsamifera*	Balsam Poplar	40	Poor	Crown dieback (high)
T198	*Populus balsamifera*	Balsam Poplar	40	Poor	Crown dieback (high)
T199	*Populus balsamifera*	Balsam Poplar	40	Poor	Crown dieback (high)
T200	*Populus balsamifera*	Balsam Poplar	35	Poor	Crown dieback (high)
T201	*Populus balsamifera*	Balsam Poplar	35	Poor	Crown dieback (high)
T202	*Populus balsamifera*	Balsam Poplar	40	Poor	Crown dieback (high)
T203	*Populus balsamifera*	Balsam Poplar	40	Poor	Crown dieback (high)
T204	*Populus balsamifera*	Balsam Poplar	40	Poor	Crown dieback (high)
T205	*Populus balsamifera*	Balsam Poplar	45	Poor	Crown dieback (high)
T206	*Populus balsamifera*	Balsam Poplar	40	Poor	Crown dieback (high)
T207	*Populus balsamifera*	Balsam Poplar	45	Poor	Crown dieback (high)
T208	*Populus balsamifera*	Balsam Poplar	31	Dead	
T209	*Populus tremuloides*	Trembling Aspen	34	Poor	Crown dieback (high)
T210	*Populus balsamifera*	Balsam Poplar	36	Dead	
T211	*Populus balsamifera*	Balsam Poplar	32	Dead	
T212	*Populus balsamifera*	Balsam Poplar	35	Poor	Crown dieback (high)
T213	*Populus tremuloides*	Trembling Aspen	27	Dead	
T214	*Populus balsamifera*	Balsam Poplar	45	Dead	Crown dieback (high)
T215	*Populus tremuloides*	Trembling Aspen	21	Dead	
T216	*Ulmus americana*	White Elm	25	Dead	
T217	*Populus tremuloides*	Trembling Aspen	37	Poor	Crown dieback (moderate)
T218	*Populus tremuloides*	Trembling Aspen	27	Dead	
T219	*Populus tremuloides*	Trembling Aspen	34	Dead	
T220	*Populus tremuloides*	Trembling Aspen	38	Poor	Crown dieback (high)

Tree ID	Scientific Name	Common Name	DBH (cm)	Condition	Comments
T221	*Populus tremuloides*	Trembling Aspen	26	Dead	
T222	*Populus tremuloides*	Trembling Aspen	34	Dead	
T223	*Populus balsamifera*	Balsam Poplar	45	Dead	
T224	*Populus balsamifera*	Balsam Poplar	45	Dead	
T225	*Populus balsamifera*	Balsam Poplar	45	Dead	
T226	*Populus balsamifera*	Balsam Poplar	45	Dead	
T227	*Populus balsamifera*	Balsam Poplar	45	Dead	
T228	*Populus balsamifera*	Balsam Poplar	45	Dead	
T229	*Populus balsamifera*	Balsam Poplar	45	Dead	
T230	*Populus balsamifera*	Balsam Poplar	45	Dead	
T231	*Robinia pseudoacacia*	Black Locust	37	Poor	Crown dieback (high)
T232	*Acer negundo*	Manitoba Maple	52	Fair-Poor	Crown dieback (moderate)
T233	*Acer negundo*	Manitoba Maple	37	Poor	Lean (high)
T234	*Fraxinus americana*	White Ash	25	Poor	Crown dieback (high)
T235	*Populus balsamifera*	Balsam Poplar	27	Dead	
T236	*Fraxinus pennsylvanica var. subintegerrima*	Green Ash	50	Poor	Crown dieback (high)
T237	*Acer negundo*	Manitoba Maple	55	Fair	Lean (moderate), included bark (moderate), crown dieback (low)
T238	*Acer negundo*	Manitoba Maple	28	Poor	Lean (high)
T239	*Ulmus americana*	White Elm	26	Dead	
T240	*Ulmus americana*	White Elm	26	Dead	
T241	*Populus tremuloides*	Trembling Aspen	30	Dead	
T242	*Populus tremuloides*	Trembling Aspen	37	Dead	
T243	*Populus tremuloides*	Trembling Aspen	14	Dead	
T244	*Fraxinus pennsylvanica var. subintegerrima*	Green Ash	62	Poor	Crown dieback (high)
T245	*Populus tremuloides*	Trembling Aspen	24	Dead	
T246	*Populus tremuloides*	Trembling Aspen	28	Dead	
T247	*Populus tremuloides*	Trembling Aspen	24	Dead	
T248	*Populus tremuloides*	Trembling Aspen	24	Dead	
T249	*Prunus serotina*	Black Cherry	45	Poor	Crown dieback (high)
T250	*Populus tremuloides*	Trembling Aspen	32	Poor	Crown dieback (high)
T251	*Populus tremuloides*	Trembling Aspen	19	Dead	
T252	*Fraxinus pennsylvanica var. subintegerrima*	Green Ash	51	Poor	Crown dieback (high)
T253	*Fraxinus pennsylvanica var. subintegerrima*	Green Ash	26	Poor	Crown dieback (high)
T254	*Fraxinus pennsylvanica var. subintegerrima*	Green Ash	24	Poor	Crown dieback (high)
T255	*Ulmus americana*	White Elm	46	Fair	Crown dieback (high)
T256	*Ulmus americana*	White Elm	19	Poor	Crown dieback (high)
T257	*Ulmus americana*	White Elm	23	Poor	Crown dieback (high)
T258	*Ulmus americana*	White Elm	18	Poor	Crown dieback (high)
T259	*Fraxinus pennsylvanica var. subintegerrima*	Green Ash	56	Poor	Crown dieback (high)
T260	*Fraxinus pennsylvanica var. subintegerrima*	Green Ash	39	Poor	Crown dieback (high)
T261	*Salix fragilis*	Crack Willow	16	Poor	Crown dieback (high), lean (high)
T262	*Salix fragilis*	Crack Willow	17	Poor	Lean (high)
T263	*Ulmus americana*	White Elm	32	Dead	
T264	*Fraxinus americana*	White Ash	21	Fair	Crown dieback (high)
T265	*Populus tremuloides*	Trembling Aspen	44	Dead	
T266	*Fraxinus americana*	White Ash	27	Dead	
T267	*Populus balsamifera*	Balsam Poplar	42	Poor	Lean (low), crown dieback (high)
T268	*Populus tremuloides*	Trembling Aspen	24	Poor	Crown dieback (high)
T269	*Fraxinus pennsylvanica var. subintegerrima*	Green Ash	26	Poor	Crown dieback (high)
T270	*Prunus serotina*	Black Cherry	19	Poor	Crown dieback (high)
T271	*Salix fragilis*	Crack Willow	13	Poor	Crown dieback (high)
T272	*Populus tremuloides*	Trembling Aspen	30	Dead	
T273	*Ulmus americana*	White Elm	23	Dead	
T274	*Ulmus americana*	White Elm	23	Dead	
T275	*Ulmus americana*	White Elm	16	Dead	

Tree ID	Scientific Name	Common Name	DBH (cm)	Condition	Comments
T276	*Fraxinus americana*	White Ash	14	Poor	Crown dieback (high)
T277	*Fraxinus pennsylvanica var. subintegerrima*	Green Ash	24	Poor	Crown dieback (high)
T278	*Fraxinus pennsylvanica var. subintegerrima*	Green Ash	38	Poor	Crown dieback (high)
T279	*Acer saccharum*	Sugar Maple	26	Poor	Crown dieback (high)
T280	*Salix fragilis*	Crack Willow	17	Fair-Poor	Crown dieback (moderate), sap sucker tree damage
T281	*Fraxinus pennsylvanica var. subintegerrima*	Green Ash	34	Poor	Crown dieback (high)
T282	*Populus tremuloides*	Trembling Aspen	35	Dead	
T283	*Ulmus americana*	White Elm	27	Dead	
T284	*Fraxinus pennsylvanica var. subintegerrima*	Green Ash	12	Dead	
T285	*Fraxinus pennsylvanica var. subintegerrima*	Green Ash	61	Poor	Crown dieback (high)
T286	*Fraxinus pennsylvanica var. subintegerrima*	Green Ash	42	Poor	Crown dieback (high)
T287	*Salix fragilis*	Crack Willow	17	Dead	
T288	*Salix fragilis*	Crack Willow	25	Poor	Lean (high)
T289	*Fraxinus pennsylvanica var. subintegerrima*	Green Ash	35	Poor	Crown dieback (high), included bark (high)
T290	*Populus tremuloides*	Trembling Aspen	16	Dead	
T291	*Ulmus americana*	White Elm	28	Dead	
T292	*Ulmus americana*	White Elm	18	Poor	Crown dieback (high)
T293	*Fraxinus pennsylvanica var. subintegerrima*	Green Ash	25	Poor	Crown dieback (high), crooked trunk
T294	*Betula papyrifera*	White Birch	24	Dead	
T295	*Salix fragilis*	Crack Willow	17	Poor	Crown dieback (high)
T296	*Prunus serotina*	Black Cherry	32	Poor	Crooked trunk
T297	*Pinus strobus*	Eastern White Pine	52	Dead	Grown through frence
T298	*Populus tremuloides*	Trembling Aspen	48	Dead	
T299	*Fraxinus pennsylvanica var. subintegerrima*	Green Ash	33	Poor	Crown dieback (high)
T300	*Ulmus americana*	White Elm	12	Dead	
T301	*Fraxinus americana*	White Ash	48	Poor	Crown dieback (high)
T302	*Fraxinus americana*	White Ash	35	Poor	Lean (moderate), crown dieback (high)
T303	*Pinus strobus*	Eastern White Pine	26	Dead	
T304	*Salix fragilis*	Crack Willow	20	Poor	Lean (high)
T305	*Populus tremuloides*	Trembling Aspen	13	Poor	Crown dieback (high)
T306	*Acer saccharum*	Sugar Maple	26	Poor	Diffuse canker (high)
T307	*Populus tremuloides*	Trembling Aspen	37	Dead	
T308	*Fraxinus americana*	White Ash	28	Dead	
T309	*Populus tremuloides*	Trembling Aspen	25	Poor	Crown dieback (high)
T310	*Populus tremuloides*	Trembling Aspen	34	Poor	Crown dieback (high)
T311	*Fraxinus americana*	White Ash	14	Dead	
T312	*Populus tremuloides*	Trembling Aspen	32	Poor	Crown dieback (high)
T313	*Fraxinus americana*	White Ash	41	Poor	Crown dieback (high)
T314	*Populus tremuloides*	Trembling Aspen	19	Dead	At risk to power line
T315	*Populus tremuloides*	Trembling Aspen	18	Dead	** caught on power line
T316	*Populus tremuloides*	Trembling Aspen	38	Poor	Ganoderma applanatum, Crown dieback (high)
T317	*Populus tremuloides*	Trembling Aspen	22	Dead	** caught on power line
T318	*Populus tremuloides*	Trembling Aspen	18	Poor	Crown dieback (high)
T319	*Populus tremuloides*	Trembling Aspen	20	Dead	
T320	*Populus tremuloides*	Trembling Aspen	32	Dead	
T321	*Populus tremuloides*	Trembling Aspen	22	Dead	
T322	*Populus tremuloides*	Trembling Aspen	34	Poor	Crown dieback (high)
T323	*Populus tremuloides*	Trembling Aspen	26	Dead	
T324	*Salix fragilis*	Crack Willow	31	Poor	Crown dieback (high)
T325	*Populus tremuloides*	Trembling Aspen	19	Dead	
T326	*Populus balsamifera*	Balsam Poplar	23	Poor	Crown dieback (high)
T327	*Pinus sylvestris*	Scots Pine	34	Poor	Crown dieback (high)
T328	*Populus tremuloides*	Trembling Aspen	27	Dead	
T329	*Populus tremuloides*	Trembling Aspen	31	Poor	Crown dieback (high)
T330	*Populus tremuloides*	Trembling Aspen	32	Poor	Crown dieback (high)

Tree ID	Scientific Name	Common Name	DBH (cm)	Condition	Comments
T331	*Populus tremuloides*	Trembling Aspen	25	Dead	
T332	*Populus tremuloides*	Trembling Aspen	27	Dead	
T333	*Populus tremuloides*	Trembling Aspen	36	Dead	
T334	*Salix fragilis*	Crack Willow	35	Poor	Lean (high)
T335	*Populus tremuloides*	Trembling Aspen	23	Dead	
T336	*Populus tremuloides*	Trembling Aspen	29	Poor	Crown dieback (high)
T337	*Populus tremuloides*	Trembling Aspen	34	Dead	
T338	*Populus tremuloides*	Trembling Aspen	32	Dead	
T339	*Populus tremuloides*	Trembling Aspen	24	Dead	
T340	*Populus balsamifera*	Balsam Poplar	17	Dead	
T341	*Populus balsamifera*	Balsam Poplar	37	Dead	
T342	*Populus tremuloides*	Trembling Aspen	32	Dead	
T343	*Populus tremuloides*	Trembling Aspen	37	Dead	
T344	*Populus tremuloides*	Trembling Aspen	26	Dead	
T345	*Populus tremuloides*	Trembling Aspen	46	Dead	
T346	*Populus tremuloides*	Trembling Aspen	29	Dead	
T347	*Populus tremuloides*	Trembling Aspen	44	Poor	Ganoderma applanatum, lean (moderate), crown dieback (moderate)
T348	*Pinus sylvestris*	Scots Pine	10	Dead	
T349	*Populus balsamifera*	Balsam Poplar	32	Dead	
T350	*Populus balsamifera*	Balsam Poplar	29	Poor	Crown dieback (high)
T351	*Populus tremuloides*	Trembling Aspen	29	Dead	
T352	*Populus balsamifera*	Balsam Poplar	34	Poor	Crown dieback (high)
T353	*Populus tremuloides*	Trembling Aspen	10	Poor	Crown dieback (high), lean (high)
T354	*Pinus sylvestris*	Scots Pine	30	Dead	
T355	*Ulmus americana*	White Elm	14	Dead	
T356	*Ulmus americana*	White Elm	20	Dead	
T357	*Pinus sylvestris*	Scots Pine	12	Dead	Covered in vines
T358	*Pinus sylvestris*	Scots Pine	31	Poor	Crown dieback (high), lean (moderate)
T359	*Populus tremuloides*	Trembling Aspen	40	Poor	Contact land owner, deadwood (high), decay (high), crown dieback (high)
T360	*Populus tremuloides*	Trembling Aspen	18	Dead	
T361	*Populus tremuloides*	Trembling Aspen	18	Dead	
T362	*Pinus sylvestris*	Scots Pine	17	Poor	Crown dieback (high)
T363	*Populus tremuloides*	Trembling Aspen	36	Dead	
T364	*Acer negundo*	Manitoba Maple	48	Poor	Lean (high)
T365	*Populus balsamifera*	Balsam Poplar	24	Dead	
T366	*Acer negundo*	Manitoba Maple	25	Dead	
T367	*Quercus macrocarpa*	Bur Oak	35	Poor	Crown dieback (high)
T368	*Acer negundo*	Manitoba Maple	25	Poor	Lean (moderate), deadwood (moderate)
T369	*Fraxinus pennsylvanica var. subintegerrima*	Green Ash	56	Poor	Crown dieback (high)
T370	*Fraxinus pennsylvanica var. subintegerrima*	Green Ash	33	Poor	Crown dieback (high)
T371	*Populus tremuloides*	Trembling Aspen	12	Dead	
T372	*Fraxinus pennsylvanica var. subintegerrima*	Green Ash	41	Poor	Crown dieback (high)
T373	*Fraxinus pennsylvanica var. subintegerrima*	Green Ash	14	Poor	Crown dieback (high)
T374	*Populus tremuloides*	Trembling Aspen	39	Dead	
T375	*Fraxinus americana*	White Ash	30	Poor	Crown dieback (high)
T376	*Ulmus americana*	White Elm	19	Fair-Poor	Crown dieback (high)
T377	*Populus tremuloides*	Trembling Aspen	34	Dead	
T378	*Fraxinus americana*	White Ash	26	Dead	
T379	*Fraxinus americana*	White Ash	16	Dead	
T380	*Fraxinus americana*	White Ash	20	Fair-Poor	Crown dieback (high)
T381	*Fraxinus americana*	White Ash	20	Fair-Poor	Crown dieback (high)
T382	*Fraxinus americana*	White Ash	38	Poor	Crown dieback (high)
T383	*Fraxinus americana*	White Ash	32	Dead	
T384	*Populus tremuloides*	Trembling Aspen	35	Poor	Ganoderma applanatum
T385	*Ulmus americana*	White Elm	18	Dead	

Tree ID	Scientific Name	Common Name	DBH (cm)	Condition	Comments
T386	*Fraxinus americana*	White Ash	22	Poor	Crown dieback (high)
T387	*Populus tremuloides*	Trembling Aspen	24	Dead	
T388	*Populus tremuloides*	Trembling Aspen	43	Dead	
T389	*Fraxinus pennsylvanica var. subintegerrima*	Green Ash	27	Fair-Poor	Crown dieback (high)
T390	*Fraxinus pennsylvanica var. subintegerrima*	Green Ash	28	Fair-Poor	Crown dieback (high)
T391	*Populus balsamifera*	Balsam Poplar	29	Dead	
T392	*Populus balsamifera*	Balsam Poplar	28	Dead	
T393	*Fraxinus americana*	White Ash	26	Poor	Crown dieback (high)
T394	*Fraxinus americana*	White Ash	44	Fair-Poor	Crown dieback (high)
T395	*Ulmus americana*	White Elm	30	Dead	
T396	*Fraxinus americana*	White Ash	31	Poor	Crown dieback (high)
T397	*Acer negundo*	Manitoba Maple	40	Fair	Lean (high)
T398	*Acer negundo*	Manitoba Maple	14	Poor	Lean (high)
T399	*Ulmus americana*	White Elm	75	Dead	
T400	*Acer negundo*	Manitoba Maple	46	Dead	
T401	*Populus balsamifera*	Balsam Poplar	14	Poor	Crown dieback (high)
T402	*Populus balsamifera*	Balsam Poplar	14	Poor	Crown dieback (high)
T403	*Juglans cinerea*	Butternut	28	BHA*	*Butternut Health Assessment (BHA) required
T404	*Populus balsamifera*	Balsam Poplar	14	Poor	Crown dieback (high)
T405	*Populus balsamifera*	Balsam Poplar	14	Poor	Crown dieback (high)
T406	*Populus balsamifera*	Balsam Poplar	26	Poor	Crown dieback (high)
T407	*Populus tremuloides*	Trembling Aspen	27	Dead	
T408	*Pinus sylvestris*	Scots Pine	30	Poor	
T409	*Pinus sylvestris*	Scots Pine	15	Dead	
T410	*Ulmus americana*	White Elm	30	Dead	
T411	*Pinus sylvestris*	Scots Pine	21	Dead	
T412	*Pinus sylvestris*	Scots Pine	25	Poor	
T413	*Pinus sylvestris*	Scots Pine	26	Poor	
T414	*Pinus sylvestris*	Scots Pine	19	Fair-Poor	Crown thinning (high)
T415	*Pinus sylvestris*	Scots Pine	22	Fair-Poor	Crown thinning (high)
T416	*Pinus sylvestris*	Scots Pine	18	Fair-Poor	Crown thinning (high)
T417	*Pinus sylvestris*	Scots Pine	34	Poor	Crown dieback (high)
T418	*Pinus sylvestris*	Scots Pine	19	Poor	Crown dieback (high)
T419	*Pinus sylvestris*	Scots Pine	26	Dead	Crown dieback (high)
T420	*Pinus sylvestris*	Scots Pine	29	Poor	Crown dieback (high)
T421	*Pinus sylvestris*	Scots Pine	38	Poor	Crown dieback (high)
T422	*Pinus strobus*	Eastern White Pine	15	Poor	Crown dieback (high)
T423	*Populus balsamifera*	Balsam Poplar	13	Poor	Crown dieback (high)
T424	*Populus balsamifera*	Balsam Poplar	15	Poor	Crown dieback (high)
T425	*Pinus sylvestris*	Scots Pine	28	Dead	
T426	*Pinus sylvestris*	Scots Pine	60	Poor	Crown dieback (high)
T427	*Pinus sylvestris*	Scots Pine	18	Dead	
T428	*Pinus sylvestris*	Scots Pine	20	Dead	
T429	*Pinus sylvestris*	Scots Pine	36	Dead	
T430	*Pinus sylvestris*	Scots Pine	32	Dead	
T431	*Pinus sylvestris*	Scots Pine	19	Poor	Crown thinning (high)
T432	*Pinus sylvestris*	Scots Pine	14	Dead	
T433	*Pinus sylvestris*	Scots Pine	38	Dead	
T434	*Pinus sylvestris*	Scots Pine	26	Dead	
T435	*Pinus sylvestris*	Scots Pine	23	Poor	Crown dieback (high)
T436	*Pinus sylvestris*	Scots Pine	45	Dead	
T437	*Pinus sylvestris*	Scots Pine	22	Dead	
T438	*Pinus sylvestris*	Scots Pine	15	Dead	
T439	*Pinus sylvestris*	Scots Pine	11	Dead	
T440	*Pinus sylvestris*	Scots Pine	13	Dead	

Tree ID	Scientific Name	Common Name	DBH (cm)	Condition	Comments
T441	*Pinus sylvestris*	Scots Pine	20	Dead	
T442	*Pinus sylvestris*	Scots Pine	30	Dead	
T443	*Pinus sylvestris*	Scots Pine	16	Dead	
T444	*Pinus sylvestris*	Scots Pine	15	Dead	
T445	*Pinus sylvestris*	Scots Pine	22	Fair-Poor	Crown dieback (moderate), dead leader
T446	*Pinus sylvestris*	Scots Pine	19	Dead	
T447	*Pinus sylvestris*	Scots Pine	32	Poor	Crown dieback (high)
T448	*Pinus sylvestris*	Scots Pine	37	Poor	
T449	*Pinus sylvestris*	Scots Pine	38	Poor	Crown dieback (high)
T450	*Pinus sylvestris*	Scots Pine	20	Dead	
T451	*Pinus sylvestris*	Scots Pine	22	Dead	
T452	*Pinus sylvestris*	Scots Pine	24	Dead	
T453	*Pinus sylvestris*	Scots Pine	34	Dead	
T454	*Pinus sylvestris*	Scots Pine	36	Dead	
T455	*Pinus sylvestris*	Scots Pine	37	Dead	
T456	*Pinus sylvestris*	Scots Pine	35	Dead	
T457	*Pinus sylvestris*	Scots Pine	39	Poor	Crown dieback (high)
T458	*Populus balsamifera*	Balsam Poplar	38	Dead	
T459	*Populus tremuloides*	Trembling Aspen	50	Poor	Crown dieback (high)
T460	*Fraxinus pennsylvanica var. subintegerrima*	Green Ash	22	Dead	
T461	*Populus tremuloides*	Trembling Aspen	10	Dead	
T462	*Populus tremuloides*	Trembling Aspen	25	Dead	
T463	*Populus tremuloides*	Trembling Aspen	30	Dead	
T464	*Ulmus americana*	White Elm	26	Dead	
T465	*Fraxinus americana*	White Ash	30	Poor	Crown dieback (high)
T466	*Fraxinus pennsylvanica var. subintegerrima*	Green Ash	22	Dead	
T467	*Fraxinus pennsylvanica var. subintegerrima*	Green Ash	38	Poor	Crown dieback (high)
T468	*Fraxinus americana*	White Ash	27	Dead	
T469	*Populus tremuloides*	Trembling Aspen	18	Dead	
T470	*Populus tremuloides*	Trembling Aspen	24	Poor	Crown dieback (high)
T471	*Acer negundo*	Manitoba Maple	32	Poor	Lean (high)
T472	*Acer negundo*	Manitoba Maple	45	Poor	Lean (high)
T473	*Acer negundo*	Manitoba Maple	12	Dead	
T474	*Acer negundo*	Manitoba Maple	12	Poor	Lean (high)
T475	*Acer negundo*	Manitoba Maple	55	Poor	Pholiota squarossa
T476	*Acer negundo*	Manitoba Maple	42	Fair-Poor	Lean (high), tree being used as laundry line
T477	*Acer negundo*	Manitoba Maple	51	Poor	Lean (high), included bark (high), trunk splitting (high)
T478	*Ulmus americana*	White Elm	46	Poor	
T479	*Ulmus americana*	White Elm	15	Dead	
T480	*Pinus sylvestris*	Scots Pine	23	Dead	
T481	*Pinus sylvestris*	Scots Pine	30	Dead	
T482	*Acer negundo*	Manitoba Maple	35	Poor	Lean (high)
T483	*Fraxinus pennsylvanica var. subintegerrima*	Green Ash	57	Dead	
T484	*Fraxinus pennsylvanica var. subintegerrima*	Green Ash	38	Poor	Crown dieback (high)
T485	*Fraxinus pennsylvanica var. subintegerrima*	Green Ash	26	Dead	
T486	*Fraxinus pennsylvanica var. subintegerrima*	Green Ash	36	Dead	
T487	*Fraxinus pennsylvanica var. subintegerrima*	Green Ash	35	Dead	
T488	*Fraxinus pennsylvanica var. subintegerrima*	Green Ash	35	Dead	
T489	*Fraxinus pennsylvanica var. subintegerrima*	Green Ash	21	Dead	
T490	*Fraxinus pennsylvanica var. subintegerrima*	Green Ash	26	Poor	Crown dieback (high)
T491	*Fraxinus pennsylvanica var. subintegerrima*	Green Ash	44	Poor	Crown dieback (high)
T492	*Betula papyrifera*	White Birch	42	Dead	
T493	*Betula papyrifera*	White Birch	34	Poor	
T494	*Betula papyrifera*	White Birch	45	Dead	
T495	*Fraxinus americana*	White Ash	24	Dead	

Tree ID	Scientific Name	Common Name	DBH (cm)	Condition	Comments
T496	*Fraxinus americana*	White Ash	28	Dead	
T497	*Betula papyrifera*	White Birch	37	Poor	Lean (high), crown dieback (moderate)
T498	*Betula papyrifera*	White Birch	40	Poor	Crown dieback (high), deadwood (high)
T499	*Fraxinus americana*	White Ash	33	Dead	
T500	*Betula papyrifera*	White Birch	40	Poor	Crown dieback (high), deadwood (high)
T501	*Fraxinus pennsylvanica var. subintegerrima*	Green Ash	32	Dead	
T502	*Juglans cinerea*	Butternut	28	BHA*	*Butternut Health Assessment required
T503	*Fraxinus pennsylvanica var. subintegerrima*	Green Ash	18	Dead	
T504	*Fraxinus americana*	White Ash	19	Poor	Crown dieback (high)
T505	*Fraxinus pennsylvanica var. subintegerrima*	Green Ash	47	Dead	
T506	*Fraxinus pennsylvanica var. subintegerrima*	Green Ash	22	Dead	
T507	*Fraxinus pennsylvanica var. subintegerrima*	Green Ash	54	Dead	
T508	*Populus balsamifera*	Balsam Poplar	24	Dead	
T509	*Populus balsamifera*	Balsam Poplar	18	Dead	
T510	*Ulmus americana*	White Elm	18	Dead	
T511	*Populus tremuloides*	Trembling Aspen	25	Dead	
T512	*Fraxinus pennsylvanica var. subintegerrima*	Green Ash	35	Poor	Crown dieback (high)
T513	*Fraxinus pennsylvanica var. subintegerrima*	Green Ash	12	Poor	Crown dieback (high)
T514	*Pinus strobus*	Eastern White Pine	36	Dead	
T515	*Pinus strobus*	Eastern White Pine	24	Dead	
T516	*Fraxinus pennsylvanica var. subintegerrima*	Green Ash	20	Dead	
T517	*Fraxinus pennsylvanica var. subintegerrima*	Green Ash	24	Poor	Crown dieback (high), lean (high)
T518	*Picea glauca*	White Spruce	10	Dead	
T519	*Pinus strobus*	Eastern White Pine	39	Dead	
T520	*Ulmus americana*	White Elm	28	Dead	
T521	*Populus tremuloides*	Trembling Aspen	22	Dead	Crown dieback (high)
T522	*Acer negundo*	Manitoba Maple	18	Fair	Lean (high)
T523	*Betula papyrifera*	White Birch	21	Dead	
T524	*Fraxinus pennsylvanica var. subintegerrima*	Green Ash	26	Dead	
T525	*Fraxinus pennsylvanica var. subintegerrima*	Green Ash	26	Dead	
T526	*Fraxinus pennsylvanica var. subintegerrima*	Green Ash	34	Poor	
T527	*Fraxinus pennsylvanica var. subintegerrima*	Green Ash	28	Dead	
T528	*Fraxinus pennsylvanica var. subintegerrima*	Green Ash	27	Dead	
T529	*Fraxinus pennsylvanica var. subintegerrima*	Green Ash	38	Dead	

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Appendix B

Tree Study Methodology

Tree Studies: Methodology

The list provided below represents all data that may be collected in the analysis of trees. Methodology descriptions should be reviewed with the column headings provided in the data. The columns represent the scope and extent of the tree assessment carried out.

Tree #: This number may be assigned by the tree assessor or predetermined by the surveyor or client. The number corresponds with the tree tag affixed to the tree, if tree tagging is part of the study's scope.

Species Name: Botanical name of the species.

Common Name: Commonly used English name.

DBH (cm): Diameter at Breast Height measured using DBH tape or tree caliper.

Crown Reserve (m): Average measurement of the diameter or width of the dripline (extent of branches from the trunk). Generally the trunk is trunk is the midpoint of this measurement. It is represented on the drawing(s) as a circle. This measurement may not be used in the subject jurisdiction.

TPZ (m): Tree protection zone required based on the required setback from the trunk, as designated by the agency (e.g. municipality). The TPZ is calculated by doubling the setback and including the trunk diameter to create a diameter of circle of protection around the tree.

HT (m): Estimated height from the base to the top of the tree.

Condition (G, F, P, D): A qualitative score of the combination of biological health and structural condition assigned as Good, Fair, Poor or Dead.

Preserve or Remove Reason: Reasons for recommended preservation or removal assigned in the tree study. Reasons for recommended removal may result from:

- Existing condition (critical deficiency such as severe crown dieback)
- Anticipated impacts of the proposed development (i.e., tree location is in conflict with construction element)
- Both existing condition and anticipated impacts

A checkmark is provided in the appropriate column.

Description of Reason: Rationale for the assignment of preservation or removal rationale based on analysis of collected data and proposed development.

Transplant Potential (G,F,P): Assignment of qualitative measure of reestablishment success of a tree when removed from its existing location and moved to another or removed and stored for replanting following construction. An assignment of Good, Fair or Poor is assigned based on a species' ability to reestablish, condition of the tree, new growing conditions, etc.

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Appendix C

Limitations of Tree Studies

Tree Studies: Limitations

This report, drawings and data (i.e., qualitative and quantitative measurements) are intended to inform the recipient and reviewer(s) of the report of the tree(s) condition at the time of the assessment. The assessment may be limited by the following constraints:

1. Access – tree is located offsite, or the onsite location is not reasonably accessed.
2. Weather – accumulated snow around the base or in branch attachments may obscure defects.
3. Season – biotic indications (e.g., foliage chlorosis or fungal fruiting bodies) are only obvious for a portion of the year.
4. Visual obstructions – Elements such as other trees' canopies can prevent the view of the entire tree.

The study is completed from the ground using a DBH tape or tree caliper. Non-invasive tools such as binoculars and a sounding hammer may be used to provide additional information about defects and characteristics. Excavation of the rootzone and other intensive analyses have not been completed unless stated.

It must be understood that trees may not manifest signs or symptoms (e.g., dieback) of some impacts (e.g., root compaction) immediately and so recent changes to the tree or its growing conditions prior to the assessment may not be apparent to the assessor. Also, changes to the tree condition resulting from damage, weather, infestations, defects, soil, decay, light, moisture, exposure, etc. may occur after the assessment.

No tree is without some level of risk, where a tree may fail and strike a target. Mitigation options, if provided, will not eliminate risk but are prescribed treatments to reduce risk based on the measured and assessed factors at the time of assessment, subject to site and assessment constraints.

Identification of the ownership of assessed trees (i.e., on-site or off-site) made in the report is based on the legal survey. The assessor of trees uses the point location of the tree provided on the survey and the limits of property to assign ownership in the report and associated materials.

R.J. Burnside & Associates Limited