

Trim Road I LP  
7 de Tellier  
Gatineau, Québec  
J8T 8C2

March 30, 2022

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**Re.: Tree Conservation Report for 1009 Tweddle Road**

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Mr. Chenier:

Bowfin Environmental Consulting Inc. (Bowfin) was retained by Trim Road I LP to prepare a Tree Conservation Report. This report follows the *City of Ottawa Tree Conservation Report Guidelines*.

The TCR field work was completed by Cody Fontaine, a Fish and Wildlife Technologist with 10 years of experience. Bowfin was also retained to complete an Environmental Impact Study (EIS) which was completed under a separate cover.

The intention of this report is to determine what woody vegetation should be retained and protected on site. In the paragraphs below, we have outlined the background and project description, field methodology and findings and recommendations.

Note that all comments pertaining to other natural heritage features are located within the EIS. The EIS also includes any mitigation measures recommended herein as part of the TCR.

**BACKGROUND AND PROJECT DESCRIPTION**

The entire property is 3.3 ha of which 1.7 ha is the Ottawa River and/or is designated as a Provincially Significant Wetland (PSW). The 1.7 ha portion will not be disturbed by the proposed development. The bulk of the remaining property consists of disturbed areas (fill) with a wooded area along the east portion of the site and trees along the roads (Figure 2). Phase 1 of the Rehabilitation works was completed in February 2022. This necessitated the removal of some shoreline trees to construct new wetland habitat (all permits were obtained).

## METHODOLOGY

The tree inventory was undertaken on July 27 and 30, 2020, by Cody Fontaine. During these visits the individual trees were assessed and reviewed in terms of their environmental value and their ecological function recorded. Individual trees that were 10 cm or greater in diameter were recorded on Site. For the adjacent lands, the nearest and largest trees to the property were also measured and their locations recorded to help assess the potential impacts to neighbouring trees. Information collected on the individual trees included:

- Their location (GPS coordinates, NAD83);
- Identified to species for native specimens;
- Diameter at breast height (DBH);
- Presence/absence of Butternuts;
- Health; and
- Height

This information is appended at the end of this letter and the locations of the individual trees are shown on Maps 1 and 2. Nomenclature used in this report follows the Southern Ontario Plant List (Bradley, 2007) for both common and scientific names which are based on Newmaster *et al.* (1998). Authorities for scientific names are given in Newmaster *et al.* (1998).

## EXISTING CONDITIONS

The weather conditions on July 27, 2020, was light rain and light air changing to overcast skies with a light breeze. The air temperature ranged from 26 to 30°C. During the July 30, 2020 visit, the weather conditions consisted of clear skies with no wind changing to 30% cloud cover with light air. The air temperature ranged from 19 to 25°C.

The Site's topography consisted of a series of plateaus created by historical fill. There only watercourse is the Ottawa River. The trees that were 10 cm in diameter or larger were restricted to the windrows along the roads and the urban woodland on the east side of the site. With respect to this TCR, a total of 458 individual trees were assessed. The most common species were ash species and bur oak. A summary of these is provided in Map 1 and in Table 1. The trees varied in health. Many of the ash trees were in poor condition or dead. Those assessed as poor contained no live crown, only live shoots at the base of the tree. Most of the other tree species were healthy. Individual trees are detailed in Table 2.

No butternuts or other protected Endangered or Threatened species plants were found.

Note that all trees from the site will be removed. None of the trees from offsite will be removed but there are four trees (113, 119, 121 and 136) whose CRZ touches the area identified as developable lands.

Table 1: Summary of Trees and Groupings

Species	Count	Size Range (DBH cm)	Height Range (m)	No. Live	No. Unhealthy	No. Dead	No. to be Removed
American Elm	36	10-33	5-13	30	1	5	15
Ash Species	111	10-46	2-15	0	2	109	61
Balsam Fir	2	13	7	1	1	0	1
Basswood	4	23-34	9-13	4	0	0	2
Black Ash	8	11-25	5-10	3	2	3	3
Black Cherry	6	11-18	7-12	6	0	0	5
Black Willow	1	100+	9	1	0	0	1
Blue Beech	3	14-17	5-8	2	1	0	2
Bur Oak	65	10-63	5-17	62	1	2	45
Cottonwood	2	15-32	7-8	2	0	0	2
Eastern White Cedar	17	13-52	2-12	11	4	2	13
Freeman's Maple	17	10-100+	6-17	16	1	0	7
Gray Birch	12	10-43	5-15	11	1	0	5
Green Ash	78	10-34	6-13	11	66	1	40
Ironwood	10	10-22	6-8	10	0	0	9
Largetooth Aspen	1	16	12	1	0	0	0
Manitoba Maple	14	10-40	5-9	13	1	0	2
Red Maple	9	16-43	6-17	9	0	0	5
Trembling Aspen	6	11-26	6-14	6	0	0	5
Unknown	15	11-49	2-14	0	0	15	7
White Ash	8	19-65	4-16	0	4	4	4
White Birch	12	10-31	4-12	11	0	1	12
White Pine	16	25-95	2-22	13	1	2	13
White Spruce	5	15-48	3-20	3	0	2	5
<b>Total</b>	<b>458</b>	<b>10-95</b>	<b>2-22</b>	<b>226</b>	<b>86</b>	<b>146</b>	<b>264</b>

## **TREE CONSERVATION**

The site plans are anticipated to require the clearing of all trees to allow for appropriate grading, up to the property lines. This combined with the desire to leave a 30 m buffer on the north side results in the inability to retain trees. Again, it is noted that the clearing could result in impacting a few trees on the adjacent properties to the east. Communication with the neighbouring land owners will be required prior to clearing any vegetation within 4 m of the property line. This is conservative approach and is based on the diameter of the nearest trees to the property line being <30 cm in diameter. The property line will first need to be well marked on Site.

## **LANDSCAPING PLANTING**

The landscaping plan for the offsetting area is to include only native species in particular: white pine, eastern white cedar, white spruce, red oak, bur oak, bitternut hickory and/or sugar maple may be appropriate, but we defer to the landscaper's expertise.

## **MITIGATION MEASURES**

- A permit for the removal of trees that are 10 cm or larger in diameter is required from the City of Ottawa.
- For this project, there is a potential to impact trees in adjacent lands, and this cannot occur without permission from those land owners. Based on the location of the largest trees on neighbouring lands, a setback of 5 m from the edge of the property has been established. This would protect the Critical Root Zone (CRZ) of any trees on the neighbour's lands. The CRZ is defined by the City as 10x the DBH of the trunk of the closest trees to the work area. Work within this setback will need to be delayed until consultations with the adjacent land owners is completed (Note if the adjacent lands have been cleared of trees for other projects, then this condition would no longer apply).
- No signs, notices or posters should be attached to any trees;
- Any trees to be retained will be protected through the installation of study snow fencing outside of their critical root zone (10x their diameter at breast height) to minimize harm to the root systems of trees adjacent to the proposed works will be implemented to protect them from indirect harm. These include:
  - Sturdy fencing (i.e., snow fencing) will be installed on the edge of the area to be protected and the CRZ will be delineated with stakes. This sturdy fence will remain in place until final grading and seeding takes place.
  - Monitoring of the fencing listed above will be completed by the proponent or their consultants during construction.

- Monitoring of the clearing of any vegetation within the CRZ will be monitored by the proponent or their consultants.
- Only clear trees where it is needed.
- No grading or activities that may cause soil compaction (such as heavy machinery and stockpiling of materials) will be allowed in the CRZ.
- Ensure that the grades are matched at the limit of the natural feature or to the edge of any buffer.
- Furthermore, no machinery maintenance or refueling or stockpiling is permitted within 5 m of the outer edge of this fencing.
- Exhaust fumes from all equipment will be directed away from the canopy of the trees to be retained.
- If roots of trees to be retained become exposed during site alterations, they will be buried immediately with soil or covered with filter cloth or woodchips and kept moist until the roots can be buried permanently.
- Any roots that must be cut will be cut cleanly to allow for healing.

#### **From the EIS**

- For this project, the removal of trees (>10 cm in diameter) should occur between October 1 and March 31 to avoid the need for additional mitigation measures. Refer to the EIS for details (Bowfin, 2022).

#### **CONCLUDING STATEMENT**

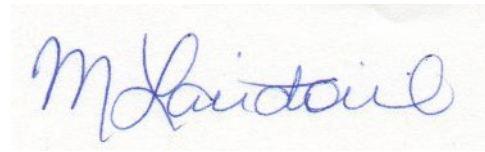
The property is mostly disturbed with fill and weedy herbaceous species. Trees are present along the roads, and in the Urban Woodland. Overall, the trees were variable in health with some dying pines and ashes. There are no specimens recommended for retention. However, the offset plan for the removal of the Urban Woodland will need to be finalized.

Removal of trees (outside of the 5 m setback from the property lines) can proceed provided that the measures above, including obtaining the permit from the City, are met. Trees within the 5 m setback can be removed pending a permit from the City and agreement with the respective neighbours.

I trust that this report will meet your requirements. Should you have any questions or comments, please contact the undersigned.

Sincerely,

Bowfin Environmental Consulting Inc.



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Michelle Lavictoire,  
Biologist / Principal

### References

Bradley, David. 2007. Southern Ontario Vascular Plant Species List. Prepared by Southern Science and Information Section, Ontario Ministry of Natural Resources, Peterborough, Ontario. 57pp.

Newmaster, S.G., A. Lehela, P.W.C Uhlig, S. McMurray and M.J. Oldham. (1998). Ontario plant list. Ontario Ministry of Natural Resources, Ontario Forest Research Institute, Sault Ste. Marie, ON, Forest Research Information Paper No. 123. 550 pp. + appendices.

Official Plan of the City of Ottawa. 2021.

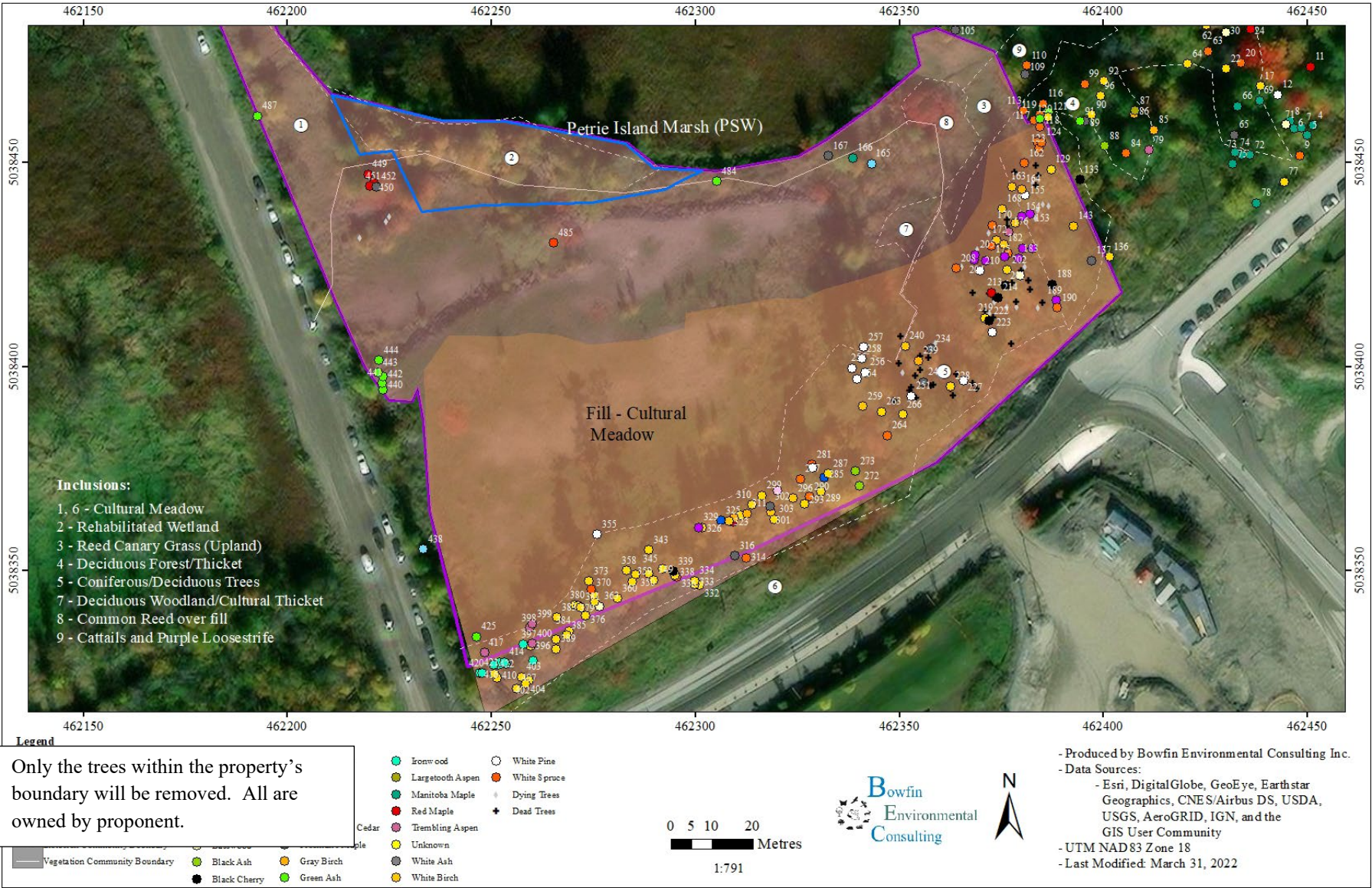


Map 1: Location of Existing Trees near Developable Lands





Map 2: Location of Trees to be Removed





Map 3: Critical Root Zones of Neighboring Trees

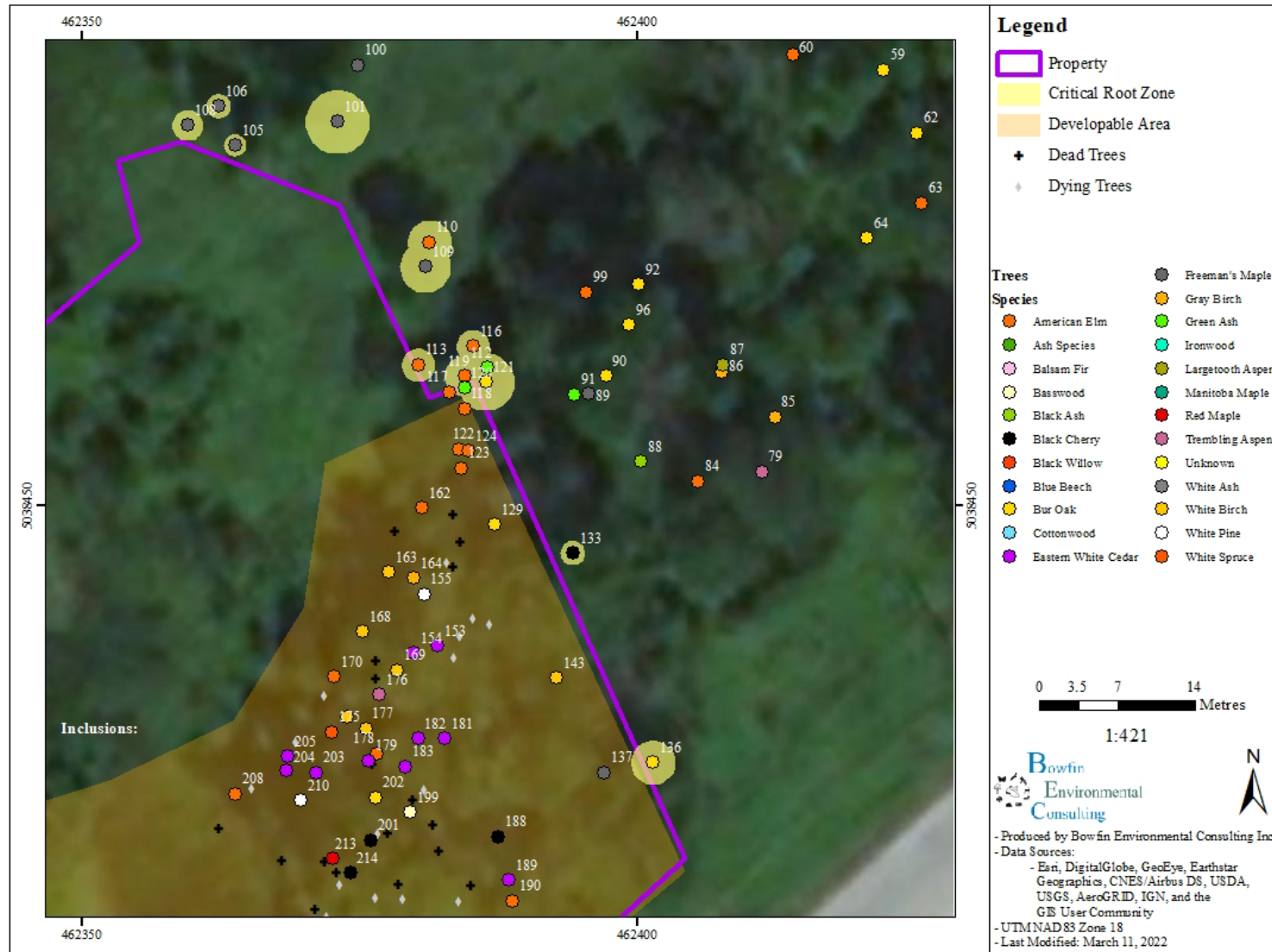


Table 2: Tree Details

Tree ID	Species	DBH (cm)	Height (m)	Health	Comments	Ownership	To Be Removed
<b>Individual Trees</b>							
1	Green Ash	16	9	Poor	Some live branches at base of tree	City of Ottawa	N
2	Green Ash	21	10	Poor		City of Ottawa	N
3	American Elm	20	10	Dead		City of Ottawa	N
4	Manitoba Maple	40	5	Good	25,29,14. Most of tree lying on ground	City of Ottawa	N
5	Manitoba Maple	15	8	Good	13,7	City of Ottawa	N
6	Manitoba Maple	18	8	Good	13,9,8	City of Ottawa	N
7	Manitoba Maple	16	8	Good	15,4	City of Ottawa	N
8	Manitoba Maple	38	8	Good	25,14,18,15,15	Neighboring Property	N
9	American Elm	11	6	Good		City of Ottawa	N
10	Ash Species	32	15	Dead		City of Ottawa	N
11	Red Maple	43	14	Good	2 stems	Neighboring Property	N
12	White Pine	27	13	Good		Neighboring Property	N
13	Ash Species	11	9	Dead		Neighboring Property	N
14	Black Ash	11	8	Dead		Neighboring Property	N
15	Ash Species	42	11	Dead	2 stems	Neighboring Property	N
16	White Ash	26	11	Dead		Neighboring Property	N
17	Bur Oak	36	15	Good		Neighboring Property	N
18	Black Ash	12	5	Dead		Neighboring Property	N
19	American Elm	15	9	Dead		City of Ottawa	N
20	American Elm	14	8	Good		Neighboring Property	N
21	Black Ash	10	6	Dead		Neighboring Property	N
22	Bur Oak	19	10	Good		Neighboring Property	N
23	Ash Species	22	13	Dead		Neighboring Property	N
24	Red Maple	35	17	Good		Neighboring Property	N

Tree ID	Species	DBH (cm)	Height (m)	Health	Comments	Ownership	To Be Removed
25	Ash Species	11	7	Dead		Neighboring Property	N
26	Ash Species	18	11	Dead		Neighboring Property	N
27	Ash Species	30	9	Dead		Neighboring Property	N
28	Ash Species	17	7	Dead		Neighboring Property	N
29	American Elm	15	7	Dead		Neighboring Property	N
30	Basswood	34	10	Good	28,13(dead),15	Neighboring Property	N
31	Ash Species	26	6	Dead		Neighboring Property	N
32	Unknown	16	8	Dead		Neighboring Property	N
33	White Ash	65	4	Dead	2 stems	Neighboring Property	N
34	Red Maple	30	14	Good		Neighboring Property	N
35	American Elm	21	8	Dead		Neighboring Property	N
36	Unknown	22	6	Dead		Neighboring Property	N
37	Bur Oak	36	16	Good		Neighboring Property	N
38	Ironwood	19	8	Good	18,5	Neighboring Property	N
39	Bur Oak	23	15	Good		Neighboring Property	N
40	Bur Oak	20	14	Good		Neighboring Property	N
41	Bur Oak	33	14	Good		Neighboring Property	N
42	Red Maple	19	8	Good	15,12	Neighboring Property	N
43	Bur Oak	42	16	Good		Neighboring Property	N
44	Unknown	38	14	Dead		Neighboring Property	N
45	Freeman's Maple	21	7	Good	17,13	Neighboring Property	N
46	Unknown	36	4	Dead	Covered in V. Creeper	Neighboring Property	N
47	Ash Species	42	6	Poor	Covered in V. Creeper	Neighboring Property	N
48	Ash Species	46	8	Dead	Covered in V. Creeper	Neighboring Property	N
49	Bur Oak	40	10	Good		Neighboring Property	N
50	Gray Birch	15	8	Good		Neighboring Property	N
51	Gray Birch	16	7	Good		Neighboring Property	N
52	Gray Birch	18	9	Good		Neighboring Property	N

Tree ID	Species	DBH (cm)	Height (m)	Health	Comments	Ownership	To Be Removed
53	Gray Birch	18	8	Good		Neighboring Property	N
54	Gray Birch	19	9	Good		Neighboring Property	N
55	American Elm	14	6	Good		Neighboring Property	N
56	Ash Species	27	11	Dead		Neighboring Property	N
57	American Elm	17	6	Good	2 stems	Neighboring Property	N
58	Ash Species	29	10	Dead		Neighboring Property	N
59	Bur Oak	46	16	Good		Neighboring Property	N
60	American Elm	16	9	Good		Neighboring Property	N
61	Ash Species	25	6	Dead		Neighboring Property	N
62	Bur Oak	52	16	Good		Neighboring Property	N
63	American Elm	31	10	Good		Neighboring Property	N
64	Bur Oak	32	15	Good	Branch dieback	Neighboring Property	N
65	Freeman's Maple	100+	17	Good		City of Ottawa	N
66	Manitoba Maple	14	5	Good		Neighboring Property	N
67	Ash Species	27	8	Dead		City of Ottawa	N
68	Ash Species	26	8	Dead		Neighboring Property	N
69	Manitoba Maple	34	9	Good	24,16,13,12	City of Ottawa	N
70	Ash Species	25	14	Dead		City of Ottawa	N
71	Basswood	26	9	Good		Neighboring Property	N
72	Manitoba Maple	10	6	Good		City of Ottawa	N
73	Manitoba Maple	11	6	Good		City of Ottawa	N
74	Manitoba Maple	12	5	Good	11,5	City of Ottawa	N
75	Manitoba Maple	27	6	Good	14,13,8,8,5,15	City of Ottawa	N
76	Green Ash	24	9	Poor		City of Ottawa	N
77	Bur Oak	16	6	Good		City of Ottawa	N
78	Manitoba Maple	32	8	Good	22,9,16,15	City of Ottawa	N
79	Trembling Aspen	21	11	Good		Neighboring Property	N
80	Green Ash	17	7	Poor		Neighboring Property	N
81	Green Ash	13	7	Poor		Neighboring Property	N



Tree ID	Species	DBH (cm)	Height (m)	Health	Comments	Ownership	To Be Removed
82	Freeman's Maple	40	12	Poor	25,15,15,31,9. Broken branches	Neighboring Property	N
83	Green Ash	20	10	Poor	13,15	Neighboring Property	N
84	American Elm	15	8	Good		Neighboring Property	N
85	Gray Birch	19	14	Good		Neighboring Property	N
86	Gray Birch	16	13	Good		Neighboring Property	N
87	Largetooth Aspen	16	12	Good		Neighboring Property	N
88	Black Ash	11	7	Good		Neighboring Property	N
89	Freeman's Maple	15	9	Good		Neighboring Property	N
90	Bur Oak	23	12	Good	18,15	Neighboring Property	N
91	Green Ash	28	9	Good	24,9,10	Neighboring Property	N
92	Bur Oak	33	14	Good		Neighboring Property	N
93	Green Ash	17	8	Poor		Neighboring Property	N
94	White Ash	35	16	Dead		Neighboring Property	N
95	White Ash	40	15	Poor		Neighboring Property	N
96	Bur Oak	41	15	Good		Neighboring Property	N
97	Unknown	20	4	Dead		Neighboring Property	N
98	Green Ash	26	12	Poor		Neighboring Property	N
99	American Elm	33	13	Good		Neighboring Property	N
100	Freeman's Maple	39	13	Good		Neighboring Property	N
101	Freeman's Maple	29	9	Good	1 broken branch	Neighboring Property	N
102	Ash Species	16	9	Poor		9378-0633 Quebec Inc	N
103	Unknown	16	7	Dead		9378-0633 Quebec Inc	N
104	American Elm	15	5	Dead	V. Creeper present on tree	9378-0633 Quebec Inc	N
105	Freeman's Maple	10	8	Good		9378-0633 Quebec Inc	N
106	Freeman's Maple	11	8	Good		9378-0633 Quebec Inc	N
107	Green Ash	23	6	Poor		9378-0633 Quebec Inc	N
108	Freeman's Maple	14	8	Good		9378-0633 Quebec Inc	N
109	Freeman's Maple	23	12	Good		Neighboring Property	N
110	American Elm	20	10	Good		Neighboring Property	N

Tree ID	Species	DBH (cm)	Height (m)	Health	Comments	Ownership	To Be Removed
111	Ash Species	29	13	Dead		Neighboring Property	N
112	Green Ash	11	9	Good		Neighboring Property	N
113	American Elm	15	9	Good		9378-0633 Quebec Inc	No but its CRZ touches the developable lands
114	Ash Species	25	12	Dead		9378-0633 Quebec Inc	N
115	American Elm	15	9	Poor	dead branches, v. creeper on tree	Neighboring Property	N
116	American Elm	15	9	Good		Neighboring Property	N
117	American Elm	20	10	Good		9378-0633 Quebec Inc	Y
118	American Elm	10	7	Good		9378-0633 Quebec Inc	Y
119	American Elm	18	10	Good		Neighboring Property	No but its CRZ touches the developable lands
120	Green Ash	23	8	Good		9378-0633 Quebec Inc	Y
121	Bur Oak	26	14	Good		Neighboring Property	No but its CRZ touches the developable lands
122	American Elm	19	10	Good		9378-0633 Quebec Inc	Y
123	American Elm	14	8	Good		9378-0633 Quebec Inc	Y
124	American Elm	13	7	Good		9378-0633 Quebec Inc	Y
125	Bur Oak	23	7	Dead		9378-0633 Quebec Inc	N
126	Ash Species	40	15	Dead		9378-0633 Quebec Inc	N
127	Bur Oak	20	9	Poor		9378-0633 Quebec Inc	N
128	Green Ash	15	6	Poor		Neighboring Property	N
129	Bur Oak	55	17	Good		Neighboring Property	Y
130	Green Ash	16	9	Poor	13,10	Neighboring Property	N
131	Green Ash	23	10	Poor	14,15,8,5,3	Neighboring Property	N
132	Ash Species	19	12	Dead		Neighboring Property	N
133	Black Cherry	11	11	Good		Neighboring Property	N
134	Green Ash	29	12	Poor	20,21	9378-0633 Quebec Inc	N

Tree ID	Species	DBH (cm)	Height (m)	Health	Comments	Ownership	To Be Removed
135	Green Ash	23	10	Poor		Neighboring Property	N
136	Bur Oak	20	10	Good		Neighboring Property	No but its CRZ touches the developable lands
137	Freeman's Maple	90	17	Good	3 stems, 1 broken branch	9378-0633 Quebec Inc	Y
138	Green Ash	19	7	Poor		9378-0633 Quebec Inc	N
139	Green Ash	14	7	Dead		9378-0633 Quebec Inc	N
140	Ash Species	14	9	Dead		9378-0633 Quebec Inc	N
141	Ash Species	16	6	Dead		9378-0633 Quebec Inc	N
142	Ash Species	18	11	Dead		9378-0633 Quebec Inc	N
143	White Birch	29	12	Good		9378-0633 Quebec Inc	Y
144	Green Ash	15	10	Poor		9378-0633 Quebec Inc	N
145	Ash Species	22	11	Dead		9378-0633 Quebec Inc	N
146	Unknown	13	6	Dead	No bark, leaning	9378-0633 Quebec Inc	N
147	Green Ash	10	7	Poor		9378-0633 Quebec Inc	N
148	Balsam Fir	13	7	Poor		9378-0633 Quebec Inc	N
149	Green Ash	10	7	Poor		9378-0633 Quebec Inc	N
150	Green Ash	11	8	Poor		9378-0633 Quebec Inc	N
151	Green Ash	10	8	Poor		9378-0633 Quebec Inc	N
152	Eastern White Cedar	17	8	Poor	leaning, some branch dieback	9378-0633 Quebec Inc	N
153	Eastern White Cedar	25	10	Good		9378-0633 Quebec Inc	Y
154	Eastern White Cedar	17	9	Good		9378-0633 Quebec Inc	Y
155	White Pine	36	15	Good		9378-0633 Quebec Inc	Y
156	Green Ash	12	8	Poor		9378-0633 Quebec Inc	N
157	Green Ash	10	8	Poor		9378-0633 Quebec Inc	N
158	Ash Species	17	11	Dead		9378-0633 Quebec Inc	Y
159	Ash Species	13	7	Dead		9378-0633 Quebec Inc	Y
160	Ash Species	13	7	Dead		9378-0633 Quebec Inc	Y
161	Ash Species	13	8	Dead		9378-0633 Quebec Inc	Y

Tree ID	Species	DBH (cm)	Height (m)	Health	Comments	Ownership	To Be Removed
162	American Elm	11	6	Good		9378-0633 Quebec Inc	Y
163	White Birch	13	7	Good		9378-0633 Quebec Inc	Y
164	Gray Birch	12	7	Good		9378-0633 Quebec Inc	Y
165	Cottonwood	15	7	Good	10,11	9378-0633 Quebec Inc	Y
166	Manitoba Maple	17	6	Good	11,12,4,5	9378-0633 Quebec Inc	Y
167	Freeman's Maple	12	6	Good		9378-0633 Quebec Inc	Y
168	White Birch	11	7	Good		9378-0633 Quebec Inc	Y
169	White Birch	12	8	Good		9378-0633 Quebec Inc	Y
170	American Elm	10	7	Good		9378-0633 Quebec Inc	Y
171	Black Ash	18	10	Poor		9378-0633 Quebec Inc	N
172	White Birch	11	7	Good		9378-0633 Quebec Inc	Y
173	Eastern White Cedar	27	2	Dead	broken at 2m	9378-0633 Quebec Inc	Y
174	Ash Species	17	12	Dead		9378-0633 Quebec Inc	Y
175	White Spruce	15	7	Good		9378-0633 Quebec Inc	Y
176	Trembling Aspen	26	14	Good		9378-0633 Quebec Inc	Y
177	White Birch	10	7	Good		9378-0633 Quebec Inc	Y
178	American Elm	12	9	Good		9378-0633 Quebec Inc	Y
179	Eastern White Cedar	26	10	Good		9378-0633 Quebec Inc	Y
180	Ash Species	17	12	Dead		9378-0633 Quebec Inc	Y
181	Eastern White Cedar	13	7	Good		9378-0633 Quebec Inc	Y
182	Eastern White Cedar	17	10	Good		9378-0633 Quebec Inc	Y
183	Eastern White Cedar	23	9	Good		9378-0633 Quebec Inc	Y
184	Eastern White Cedar	26	10	Poor	Branch dieback	9378-0633 Quebec Inc	N
185	Ash Species	16	12	Dead		9378-0633 Quebec Inc	N
186	Ash Species	15	10	Dead		9378-0633 Quebec Inc	N
187	Green Ash	16	9	Poor		9378-0633 Quebec Inc	N
188	Black Cherry	25	12	Good		9378-0633 Quebec Inc	Y
189	Eastern White Cedar	52	12	Good	2 healthy stems, 1 broken at 1m	9378-0633 Quebec Inc	Y
190	American Elm	10	7	Good		9378-0633 Quebec Inc	Y



Tree ID	Species	DBH (cm)	Height (m)	Health	Comments	Ownership	To Be Removed
191	Ash Species	15	6	Dead	broken at top	9378-0633 Quebec Inc	Y
192	Eastern White Cedar	33	9	Poor	25,22. branch dieback	9378-0633 Quebec Inc	N
193	Ash Species	25	13	Dead		9378-0633 Quebec Inc	Y
194	Ash Species	18	11	Dead		9378-0633 Quebec Inc	Y
195	Eastern White Cedar	18	3	Dead		9378-0633 Quebec Inc	Y
196	Eastern White Cedar	30	10	Poor		9378-0633 Quebec Inc	N
197	Green Ash	19	9	Poor	16,11	9378-0633 Quebec Inc	N
198	Ash Species	20	11	Dead		9378-0633 Quebec Inc	Y
199	Basswood	34	13	Good	29,14,10	9378-0633 Quebec Inc	Y
200	Ash Species	19	11	Dead		9378-0633 Quebec Inc	Y
201	Black Cherry	19	10	Good		9378-0633 Quebec Inc	Y
202	Bur Oak	63	16	Good	2 stems (37, 28)	9378-0633 Quebec Inc	Y
203	Eastern White Cedar	20	8	Good		9378-0633 Quebec Inc	Y
204	Eastern White Cedar	15	6	Good		9378-0633 Quebec Inc	Y
205	Eastern White Cedar	26	9	Good		9378-0633 Quebec Inc	Y
206	Blue Beech	14	5	Poor	12 (dead),4,6	9378-0633 Quebec Inc	N
207	Green Ash	22	12	Poor		9378-0633 Quebec Inc	N
208	American Elm	13	6	Good		9378-0633 Quebec Inc	Y
209	Unknown	11	3	Dead		9378-0633 Quebec Inc	Y
210	White Pine	36	17	Good		9378-0633 Quebec Inc	Y
211	Ash Species	16	8	Dead	leaning on adjacent trees	9378-0633 Quebec Inc	Y
212	Ash Species	16	10	Dead		9378-0633 Quebec Inc	Y
213	Red Maple	18	8	Good		9378-0633 Quebec Inc	Y
214	Black Cherry	14	7	Good		9378-0633 Quebec Inc	Y
215	Unknown	13	4	Dead	leaning on maple	9378-0633 Quebec Inc	Y
216	Green Ash	15	7	Poor		9378-0633 Quebec Inc	N
217	Green Ash	15	7	Poor		9378-0633 Quebec Inc	N
218	White Pine	95	15	Poor	1 live stem. (36(dead), 57)	9378-0633 Quebec Inc	N

Tree ID	Species	DBH (cm)	Height (m)	Health	Comments	Ownership	To Be Removed
219	Bur Oak	14	7	Good	11,9	9378-0633 Quebec Inc	Y
220	Ash Species	13	3	Dead		9378-0633 Quebec Inc	Y
221	Ash Species	15	7	Dead		9378-0633 Quebec Inc	Y
222	Black Cherry	27	7	Good	21,17	9378-0633 Quebec Inc	Y
223	White Pine	69	22	Good		9378-0633 Quebec Inc	Y
224	Ash Species	16	8	Dead		9378-0633 Quebec Inc	Y
225	Ash Species	18	7	Dead		9378-0633 Quebec Inc	Y
226	Ash Species	17	8	Dead		9378-0633 Quebec Inc	Y
227	White Pine	79	21	Good		9378-0633 Quebec Inc	Y
228	Bur Oak	17	7	Good		9378-0633 Quebec Inc	Y
229	Ash Species	14	6	Dead	10,10	9378-0633 Quebec Inc	Y
230	Ash Species	15	9	Dead		9378-0633 Quebec Inc	Y
231	Ash Species	20	11	Dead		9378-0633 Quebec Inc	Y
232	Unknown	36	7	Dead		9378-0633 Quebec Inc	Y
233	Unknown	11	7	Dead		9378-0633 Quebec Inc	Y
234	Freeman's Maple	26	10	Good		9378-0633 Quebec Inc	Y
235	White Ash	19	11	Poor		9378-0633 Quebec Inc	Y
236	Ash Species	17	6	Dead	broken at top	9378-0633 Quebec Inc	Y
237	Ash Species	23	12	Dead		9378-0633 Quebec Inc	Y
238	Ash Species	15	2	Dead		9378-0633 Quebec Inc	Y
239	Gray Birch	10	5	Good		9378-0633 Quebec Inc	Y
240	White Birch	11	6	Good	some branch dieback	9378-0633 Quebec Inc	Y
241	Ash Species	15	9	Dead		9378-0633 Quebec Inc	Y
242	Ash Species	14	7	Dead		9378-0633 Quebec Inc	Y
243	Green Ash	22	11	Poor	20, 10(dead)	9378-0633 Quebec Inc	N
244	Ash Species	14	2	Dead		9378-0633 Quebec Inc	Y
245	Ash Species	16	2	Dead	broken at top	9378-0633 Quebec Inc	Y
246	Ash Species	15	10	Dead		9378-0633 Quebec Inc	Y
247	Freeman's Maple	13	9	Good			Y

Tree ID	Species	DBH (cm)	Height (m)	Health	Comments	Ownership	To Be Removed
248	Ash Species	14	10	Dead		9378-0633 Quebec Inc	Y
249	Unknown	22	2	Dead	broken/fallen	9378-0633 Quebec Inc	Y
250	Ash Species	14	10	Dead		9378-0633 Quebec Inc	Y
251	White Pine	55	20	Good		9378-0633 Quebec Inc	Y
252	Ash Species	10	9	Dead		9378-0633 Quebec Inc	Y
253	Ash Species	16	7	Dead		9378-0633 Quebec Inc	Y
254	White Pine	60	18	Good		9378-0633 Quebec Inc	Y
255	White Pine	25	12	Good		9378-0633 Quebec Inc	Y
256	White Pine	65	20	Good		9378-0633 Quebec Inc	Y
257	White Pine	43	17	Good		9378-0633 Quebec Inc	Y
258	White Pine	46	18	Good		9378-0633 Quebec Inc	Y
259	White Birch	13	6	Good		9378-0633 Quebec Inc	Y
260	White Pine	75	2	Dead	broken	9378-0633 Quebec Inc	N
261	Bur Oak	20	7	Dead		9378-0633 Quebec Inc	N
262	Ash Species	16	10	Dead		9378-0633 Quebec Inc	N
263	Bur Oak	35	13	Good	some crown dieback at top	9378-0633 Quebec Inc	Y
264	American Elm	14	6	Good		9378-0633 Quebec Inc	Y
265	Ash Species	13	7	Dead		9378-0633 Quebec Inc	N
266	Bur Oak	10	6	Good		9378-0633 Quebec Inc	Y
267	Ash Species	16	10	Dead		9378-0633 Quebec Inc	N
268	Ash Species	11	3	Dead		9378-0633 Quebec Inc	N
269	Ash Species	14	7	Dead		9378-0633 Quebec Inc	N
270	Ash Species	16	11	Dead		9378-0633 Quebec Inc	N
271	Ash Species	14	9	Dead		9378-0633 Quebec Inc	N
272	Black Ash	13	7	Good		9378-0633 Quebec Inc	Y
273	Black Ash	25	7	Good	13,15,16	9378-0633 Quebec Inc	Y
274	Green Ash	16	10	Poor		9378-0633 Quebec Inc	N
275	Green Ash	19	12	Poor		9378-0633 Quebec Inc	N
276	Ash Species	14	7	Dead		9378-0633 Quebec Inc	N

Tree ID	Species	DBH (cm)	Height (m)	Health	Comments	Ownership	To Be Removed
277	Ash Species	14	9	Dead		9378-0633 Quebec Inc	N
278	Ash Species	14	10	Dead		9378-0633 Quebec Inc	N
279	Ash Species	15	10	Dead		9378-0633 Quebec Inc	N
280	Ash Species	14	10	Dead		9378-0633 Quebec Inc	N
281	White Spruce	27	12	Good		9378-0633 Quebec Inc	Y
282	White Pine	67	2	Good		9378-0633 Quebec Inc	Y
283	Ash Species	20	12	Dead		9378-0633 Quebec Inc	N
284	Ash Species	15	7	Dead	Tree leaning	9378-0633 Quebec Inc	N
285	Blue Beech	14	5	Good		9378-0633 Quebec Inc	Y
287	Bur Oak	15	10	Good		9378-0633 Quebec Inc	Y
289	Bur Oak	16	11	Good		9378-0633 Quebec Inc	Y
290	American Elm	26	13	Good	Stems: 24,10	9378-0633 Quebec Inc	Y
291	Ash Species	17	11	Dead		9378-0633 Quebec Inc	N
292	Ash Species	15	9	Dead		9378-0633 Quebec Inc	N
293	Bur Oak	20	9	Good		9378-0633 Quebec Inc	Y
294	Green Ash	15	8	Poor		9378-0633 Quebec Inc	N
295	Ash Species	14	9	Dead		9378-0633 Quebec Inc	N
296	White Birch	13	7	Good		9378-0633 Quebec Inc	Y
297	American Elm	17	11	Good		9378-0633 Quebec Inc	Y
298	Balsam Fir	13	7	Good		9378-0633 Quebec Inc	Y
299	Bur Oak	17	8	Good		9378-0633 Quebec Inc	Y
300	Ash Species	11	8	Dead		9378-0633 Quebec Inc	N
301	White Birch	13	7	Good		9378-0633 Quebec Inc	Y
302	Freeman's Maple	12	9	Good		9378-0633 Quebec Inc	Y
303	Bur Oak	21	12	Good		9378-0633 Quebec Inc	Y
304	Green Ash	20	9	Poor		9378-0633 Quebec Inc	N
305	Ash Species	17	10	Dead		9378-0633 Quebec Inc	N
306	Green Ash	13	7	Poor		9378-0633 Quebec Inc	N
307	Ash Species	14	8	Dead		9378-0633 Quebec Inc	N
308	Unknown	49	6	Dead	Stems: 39,29	9378-0633 Quebec Inc	N



Tree ID	Species	DBH (cm)	Height (m)	Health	Comments	Ownership	To Be Removed
309	Bur Oak	11	7	Good	Some crown dieback	9378-0633 Quebec Inc	Y
310	Bur Oak	15	9	Good		9378-0633 Quebec Inc	Y
311	Gray Birch	33	13	Good	Stems: 27,13,14	9378-0633 Quebec Inc	Y
312	Ash Species	19	12	Dead		City of Ottawa	Y
313	Ash Species	18	12	Dead		City of Ottawa	Y
314	American Elm	10	7	Good		City of Ottawa	Y
315	Ash Species	17	10	Dead		City of Ottawa	Y
316	Freeman's Maple	16	10	Good		City of Ottawa	Y
317	Ash Species	22	13	Dead		9378-0633 Quebec Inc	Y
318	Ash Species	21	13	Dead		9378-0633 Quebec Inc	N
319	Gray Birch	17	7	Poor	Branch dieback	9378-0633 Quebec Inc	Y
320	Red Maple	32	11	Good	3 stems	9378-0633 Quebec Inc	Y
321	Gray Birch	43	13	Good	2 stems	9378-0633 Quebec Inc	Y
322	Green Ash	10	8	Poor		9378-0633 Quebec Inc	Y
323	White Birch	31	10	Good	Some crown dieback	9378-0633 Quebec Inc	Y
324	Ash Species	12	8	Dead		9378-0633 Quebec Inc	Y
325	Blue Beech	16	8	Good		9378-0633 Quebec Inc	Y
326	Bur Oak	11	7	Good		9378-0633 Quebec Inc	Y
327	Green Ash	15	9	Poor		9378-0633 Quebec Inc	Y
328	White Birch	17	4	Dead	Tree broken at top	9378-0633 Quebec Inc	Y
329	Eastern White Cedar	31	12	Good		9378-0633 Quebec Inc	Y
330	Ash Species	11	8	Dead		9378-0633 Quebec Inc	Y
331	Ash Species	21	9	Dead		City of Ottawa	Y
332	Bur Oak	10	5	Good		City of Ottawa	Y
333	Bur Oak	14	8	Good		City of Ottawa	Y
334	Bur Oak	24	11	Good		City of Ottawa	Y
335	Ash Species	18	7	Dead		City of Ottawa	Y
336	American Elm	19	9	Good		9378-0633 Quebec Inc	Y
337	Green Ash	15	10	Poor		9378-0633 Quebec Inc	Y

Tree ID	Species	DBH (cm)	Height (m)	Health	Comments	Ownership	To Be Removed
338	Bur Oak	17	10	Good		9378-0633 Quebec Inc	Y
339	Black Cherry	18	8	Good		9378-0633 Quebec Inc	Y
340	Green Ash	15	10	Poor		9378-0633 Quebec Inc	Y
341	White Spruce	48	3	Dead	Tree broken	9378-0633 Quebec Inc	Y
342	Black Ash	11	6	Poor		9378-0633 Quebec Inc	Y
343	Bur Oak	10	8	Good		9378-0633 Quebec Inc	Y
344	Green Ash	20	12	Poor		9378-0633 Quebec Inc	Y
345	Bur Oak	19	12	Good		9378-0633 Quebec Inc	Y
346	Green Ash	18	12	Poor		9378-0633 Quebec Inc	Y
347	White Spruce	42	9	Dead		9378-0633 Quebec Inc	Y
348	Bur Oak	22	11	Good		9378-0633 Quebec Inc	Y
349	Bur Oak	23	10	Good		9378-0633 Quebec Inc	Y
350	Bur Oak	14	7	Good		9378-0633 Quebec Inc	Y
351	Green Ash	14	9	Poor		9378-0633 Quebec Inc	Y
352	Ash Species	11	7	Dead		9378-0633 Quebec Inc	Y
353	Ash Species	12	6	Dead		9378-0633 Quebec Inc	Y
354	Ash Species	12	9	Dead		9378-0633 Quebec Inc	Y
355	White Pine	56	22	Good		9378-0633 Quebec Inc	Y
356	White Pine	53	7	Dead		9378-0633 Quebec Inc	Y
357	Ash Species	11	9	Dead		9378-0633 Quebec Inc	Y
358	Bur Oak	12	9	Good		9378-0633 Quebec Inc	Y
359	Bur Oak	21	11	Good		9378-0633 Quebec Inc	Y
360	Bur Oak	20	11	Good		9378-0633 Quebec Inc	Y
361	Green Ash	25	13	Poor		9378-0633 Quebec Inc	Y
362	Ash Species	17	11	Dead		9378-0633 Quebec Inc	Y
363	Basswood	23	11	Good		9378-0633 Quebec Inc	Y
364	White Ash	26	12	Poor	Stems: 24,11	9378-0633 Quebec Inc	Y
365	White Ash	26	12	Dead		9378-0633 Quebec Inc	Y
366	Unknown	17	8	Dead		9378-0633 Quebec Inc	Y
367	Bur Oak	19	11	Good		9378-0633 Quebec Inc	Y

Tree ID	Species	DBH (cm)	Height (m)	Health	Comments	Ownership	To Be Removed
368	Bur Oak	16	7	Good		9378-0633 Quebec Inc	Y
369	Ash Species	15	8	Dead		9378-0633 Quebec Inc	Y
370	White Spruce	47	20	Good		9378-0633 Quebec Inc	Y
371	Ash Species	12	7	Dead		9378-0633 Quebec Inc	Y
372	Ash Species	11	7	Dead		9378-0633 Quebec Inc	Y
373	Bur Oak	10	6	Good		9378-0633 Quebec Inc	Y
374	Ash Species	11	6	Dead		9378-0633 Quebec Inc	Y
375	Unknown	22	7	Dead	Leaning on adjacent trees	9378-0633 Quebec Inc	Y
376	Bur Oak	11	6	Good		9378-0633 Quebec Inc	Y
377	Ash Species	18	8	Dead	2 stems	9378-0633 Quebec Inc	Y
378	Ash Species	18	3	Dead	Tree broken	9378-0633 Quebec Inc	Y
379	Bur Oak	11	6	Good		9378-0633 Quebec Inc	Y
380	Bur Oak	11	7	Good		9378-0633 Quebec Inc	Y
381	Bur Oak	10	7	Good		9378-0633 Quebec Inc	Y
382	Ash Species	10	8	Dead		9378-0633 Quebec Inc	Y
383	Bur Oak	36	13	Good		9378-0633 Quebec Inc	Y
384	Bur Oak	14	7	Good		9378-0633 Quebec Inc	Y
385	Bur Oak	25	10	Good	Stems: 18,17	City of Ottawa	Y
386	Bur Oak	47	13	Good		City of Ottawa	Y
387	Green Ash	16	11	Poor		City of Ottawa	Y
388	Green Ash	21	7	Poor		City of Ottawa	Y
389	Bur Oak	23	12	Good		City of Ottawa	Y
390	White Ash	28	13	Poor	Stems: 26,11	City of Ottawa	Y
391	Ash Species	12	8	Dead		City of Ottawa	Y
392	Ash Species	21	6	Dead	Tree broken	City of Ottawa	Y
393	Ash Species	11	7	Dead		City of Ottawa	Y
394	Green Ash	31	9	Poor	Stems: 19,10,13,14,11	City of Ottawa	Y
395	Ironwood	13	7	Good		City of Ottawa	Y
396	Bur Oak	16	7	Good		City of Ottawa	Y

Tree ID	Species	DBH (cm)	Height (m)	Health	Comments	Ownership	To Be Removed
397	Ironwood	22	7	Good	Stems: 15,8	9378-0633 Quebec Inc	Y
398	Trembling Aspen	13	7	Good		9378-0633 Quebec Inc	Y
399	Trembling Aspen	10	6	Good		9378-0633 Quebec Inc	Y
400	Trembling Aspen	11	6	Good		9378-0633 Quebec Inc	Y
401	Green Ash	23	12	Poor	Stems: 21,9	9378-0633 Quebec Inc	Y
402	Bur Oak	23	12	Good		9378-0633 Quebec Inc	Y
403	Bur Oak	21	7	Good		City of Ottawa	Y
404	Bur Oak	14	7	Good		City of Ottawa	Y
405	Green Ash	25	8	Poor	Stems: 18,17	City of Ottawa	Y
406	Green Ash	21	10	Poor		City of Ottawa	Y
407	Bur Oak	26	12	Good		City of Ottawa	Y
408	Ash Species	22	11	Dead		City of Ottawa	Y
409	Ash Species	10	7	Dead		City of Ottawa	Y
410	Bur Oak	31	10	Good		City of Ottawa	Y
411	Ironwood	10	6	Good		City of Ottawa	Y
412	Ironwood	11	6	Good		City of Ottawa	Y
413	Ironwood	12	7	Good		City of Ottawa	Y
414	Ironwood	10	6	Good		City of Ottawa	Y
415	Ash Species	12	8	Dead		City of Ottawa	Y
416	Ironwood	14	7	Good		City of Ottawa	Y
417	Trembling Aspen	21	11	Good		9378-0633 Quebec Inc	Y
418	Ash Species	11	9	Dead		9378-0633 Quebec Inc	Y
419	Ash Species	10	7	Dead		9378-0633 Quebec Inc	Y
420	Ironwood	15	6	Good		City of Ottawa	Y
421	Ironwood	12	6	Good		City of Ottawa	Y
422	Bur Oak	29	10	Good	Stems: 19,15,10,12	City of Ottawa	Y
423	Ash Species	11	6	Dead		City of Ottawa	Y
424	Green Ash	20	7	Poor		City of Ottawa	Y
425	Green Ash	15	7	Good		9378-0633 Quebec Inc	Y
426	Green Ash	11	7	Poor		9378-0633 Quebec Inc	Y



Tree ID	Species	DBH (cm)	Height (m)	Health	Comments	Ownership	To Be Removed
427	Green Ash	16	7	Poor		9378-0633 Quebec Inc	Y
428	Green Ash	17	7	Poor		9378-0633 Quebec Inc	Y
429	Green Ash	12	6	Poor		9378-0633 Quebec Inc	Y
430	Green Ash	16	7	Poor		9378-0633 Quebec Inc	Y
431	Green Ash	10	6	Poor		9378-0633 Quebec Inc	Y
432	Green Ash	15	7	Poor		9378-0633 Quebec Inc	Y
433	Green Ash	13	7	Poor		9378-0633 Quebec Inc	Y
434	Green Ash	12	6	Poor		9378-0633 Quebec Inc	Y
435	Green Ash	20	6	Poor	Stems: 10,13,11	9378-0633 Quebec Inc	Y
436	Green Ash	16	7	Poor	Stems: 12,10	9378-0633 Quebec Inc	Y
437	Green Ash	14	7	Poor		9378-0633 Quebec Inc	Y
438	Cottonwood	32	8	Good		9378-0633 Quebec Inc	Y
439	Green Ash	34	7	Poor	Stems: 20,17,18,11	9378-0633 Quebec Inc	Y
440	Green Ash	11	6	Good		9378-0633 Quebec Inc	Y
441	Green Ash	11	6	Good		9378-0633 Quebec Inc	Y
442	Green Ash	12	7	Good		9378-0633 Quebec Inc	Y
443	Green Ash	17	7	Good		9378-0633 Quebec Inc	Y
444	Green Ash	10	6	Good		9378-0633 Quebec Inc	Y
445	Green Ash	12	7	Poor		9378-0633 Quebec Inc	Y
446	Green Ash	22	6	Poor	Stems: 13,10,11,9	9378-0633 Quebec Inc	Y
447	Green Ash	23	6	Poor	Stems: 13,10,10,11,6	9378-0633 Quebec Inc	Y
448	Green Ash	24	7	Poor	Stems: 15,16,10	9378-0633 Quebec Inc	Y
449	Red Maple	16	6	Good		9378-0633 Quebec Inc	Y
450	Red Maple	20	7	Good		9378-0633 Quebec Inc	Y
451	Red Maple	18	7	Good		9378-0633 Quebec Inc	Y
452	Freeman's Maple	27	9	Good	Stems: 22,13,10	9378-0633 Quebec Inc	Y
483	Manitoba Maple	26	5	Poor	Parallel to ground	9378-0633 Quebec Inc	Y
484	Green Ash	11	7	Good		9378-0633 Quebec Inc	Y
485	Black Willow	100+	9	Good	~20 stems	9378-0633 Quebec Inc	Y

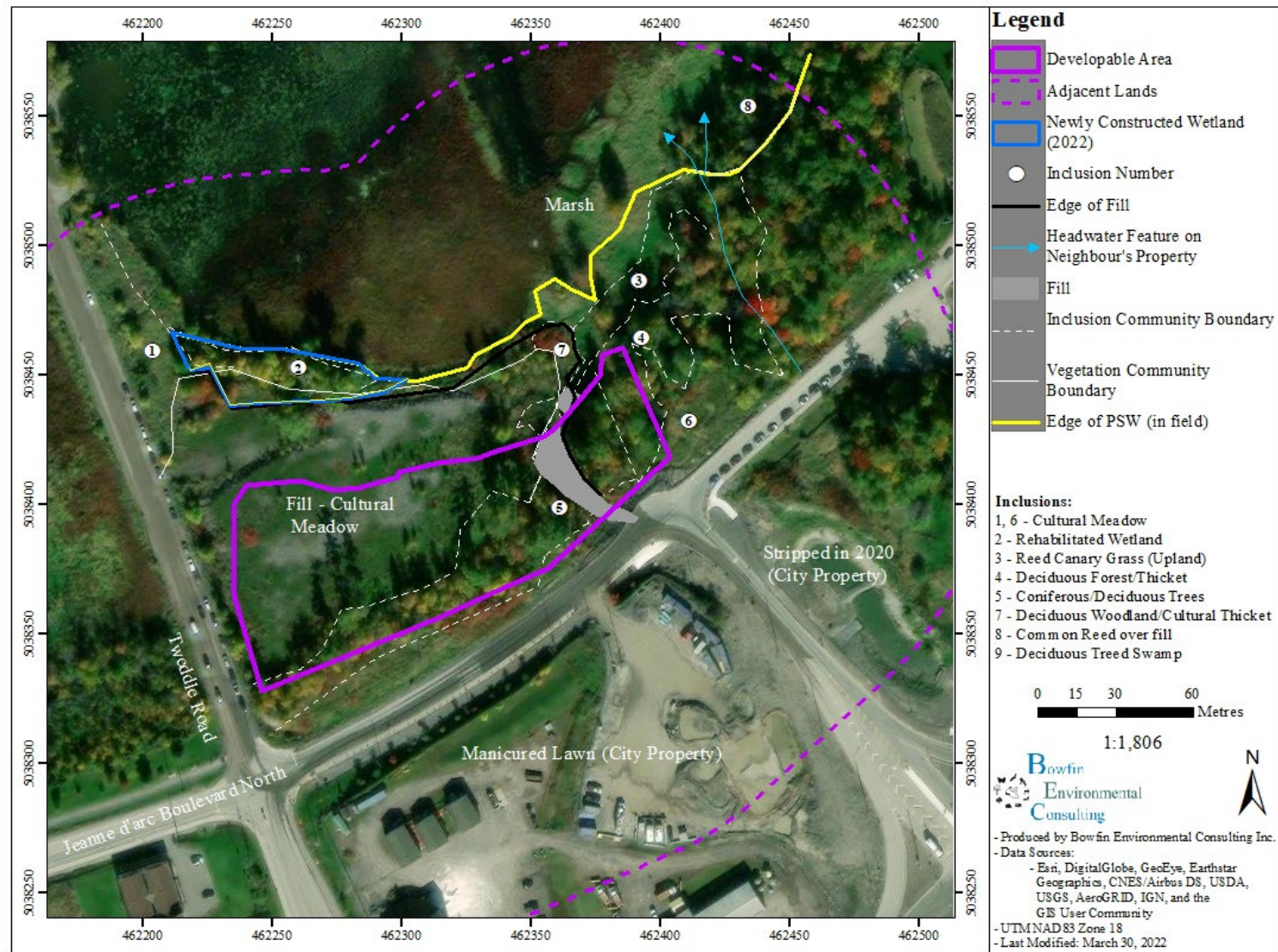
Tree ID	Species	DBH (cm)	Height (m)	Health	Comments	Ownership	To Be Removed
486	Green Ash	14	6	Poor		9378-0633 Quebec Inc	N
487	Green Ash	14	7	Good		9378-0633 Quebec Inc	N
488	American Elm	25	9	Good		9378-0633 Quebec Inc	N
489	American Elm	15	8	Good		9378-0633 Quebec Inc	N
490	American Elm	17	8	Good		9378-0633 Quebec Inc	N

## Appendix A: Vegetation Descriptions from EIS

### **Vegetation Description and Butternut Survey Results**

The only natural habitats were in the eastern side of the site and in the adjacent lands. All treed communities were smaller than the minimum of 0.5 ha and considered inclusions for the purposes of this EIS. No special feature communities were encountered. The inclusions represent edge habitat (they were roughly 25 m wide) and as such do not fit with the ELC codes. It is noted that portions of inclusion 4 would not meet the definition of a forest because it was strongly dominated by shrub species (i.e., Staghorn Sumac). The Thicket habitats were mostly next to the meadow adjacent to Jeanne d’Arc Boulevard North and the two access roads to the river.

# Vegetation Mapping Figure



### ***Disturbed Area – Cultural Meadow***

The largest part of the developable area consisted of heavily compacted rocky fill vegetated with broad leaf herbaceous species such as bird's foot trefoil, common sow thistle, white sweet clover, wild carrot, cow vetch, burdock, viper's bugloss, field bindweed, smooth brome, coltsfoot, and common mullein. There were also a few scattered, young, eastern cottonwoods. These were less than 2 m tall and provided very little in terms of cover.



Photo 1: Looking across towards Trim Road (July 28, 2020)

### ***Inclusion 1 – Cultural Meadow***

This area also consisted of a cultural meadow but contained wetland species as well as upland. This area is the embankment of Tweddle Road and some of the area has been disturbed by the fill activities. The area is classed as upland because of the significant presence of upland species (bird's foot trefoil, wild carrot, and cow vetch) (Photo 2).





Photo 2: Cultural Meadow along Trim Road (July 28, 2020)

***Inclusion 2 – Rehabilitated Wetland***

A portion of the shoreline fill was removed to the same elevation as the adjacent PSW. This area is anticipated to quickly become re-established with marsh habitat.



Photo 3: Wetland habitat being created (February 25, 2022)

***Inclusion 3 – Reed Canary Grass - Upland***

This community was almost exclusively vegetated with reed canary grass. The area does not flood (based on satellite imaging from 2017 during historically high flooding). The community sat on tablelands and is distinct from the PSW. The same community is found along the steep edge of the fill nearer to the property (Photo 4 and Photo 5) and also up the steep slope along an access road (Photo 6). This suggests that it was also historically filled and is not representative of true wetland habitat at this location. No surface water or iron staining noted in this community. Note that the portion of the reed canary grass that was at a lower elevation was included in the Marsh community (described further below).



Photo 4: Reed canary grass dominated slope (April 29, 2020)





Photo 5: Reed canary grass dominated slope with narrow treed area along Jeanne d’Arc Boulevard in background (April 29, 2020)



Photo 6: Reed canary grass dominated slope (April 29, 2020)



Photo 7: Reed Canary Grass on the east side of the adjacent lands (July 28, 2020)

#### ***Inclusion 4 – Deciduous Forest/Thicket***

This community was edge habitat between the deciduous and coniferous trees along the roadway (inclusion 5) and the mixed forest situated further offsite to the east. The vegetation includes the area identified as woodland by the City. It is narrow and did not have any interior habitat. It is also disturbed with two access roads travelling through it down to the water along with evidence of fill (cement) and garbage. The portion within the adjacent lands included patches of Staghorn Sumac along with young (2-4 m tall; 50% cover) trees. The tree species included: white ash, bur oak, freeman's maple, silver maple, black cherry, white birch, and balsam fir. Other shrub species (in addition to the staghorn sumac) were common buckthorn and Tartarian honeysuckle which are both invasive. The ground layer included Virginia creeper, sarsaparilla, alternative-leaved dogwood, dwarf raspberry and purple-flower raspberry.





Photo 8: Deciduous Forest/Thicket (July 28, 2020)



Photo 9: Inclusion 4 - near the north edge looking south (April 12, 2021)





Photo 10: Metal Garbage becoming exposed in the middle of the slope (April 12, 2021)



Photo 11: A few metres uphill from previous photo, large amount of garbage is seen near the surface (April 12, 2021)

#### ***Inclusion 5 – Coniferous and Deciduous Trees***

This inclusion included both the vegetation along the roadway and a part of the Candidate Woodland. There were various patches of treed areas with deciduous thickets. The Candidate Woodland portion was to the east of the headwater feature. The woody vegetation was dominated by eastern white cedar, white ash, green ash, along with black cherry, trembling



aspen, basswood, and bur oak. The ground layer included poison ivy, wood fern and red baneberry.



Photo 12: Inclusion 5 – looking east from near the base of the slope (April 12, 2021)



Photo 13: Inclusion 5 – looking north from the edge (April 12, 2021)





Photo 14: Looking along the edge of Jeanne d’Arc Boulevard N at the Coniferous and Deciduous Trees (July 28, 2020)

#### *Inclusion 6 – Cultural Meadow*

This area was situated between the trees and Jeanne d’Arc Boulevard. It was dominated by meadow habitat with pockets of sumac thicket. The woody layer also included young (up to 3 m tall) green ash. The primary species encountered were late goldenrod, grass, cow vetch, wild carrot, reed canary grass, buttercup, common sow thistle, burdock, Virginia creeper, strawberry, and Canada thistle.



Photo 15: Cultural Meadow along Jeanne d’Arc Boulevard (July 28, 2020)

***Inclusion 7 – Deciduous Woodland/Cultural Thicket***

Situated on the northeast corner of the fill was a small areas of regenerating deciduous trees and of shrubs growing on fill. The upper layer was 1-6 m tall (50% cover) and included eastern cottonwood, staghorn sumac, Manitoba maple and green ash. The ground layer (90% cover) contained reed canary grass, Canada goldenrod, cow vetch, wild carrot, bird's-foot trefoil, common ragweed, and grasses.



Photo 16: Deciduous Forest/Thicket on NE corner of fill (July 28, 2020)

***Wetland – Marsh and Community 8***

The PSW Petrie Island Wetland is situated to the northwest of both phases. At the base of the fill, this community was dominated by the marsh consisting of robust emergents (cattails). In the adjacent lands further east, the wetland consisted of a narrow deciduous treed swamp (silver maple, green ash, and black ash) with a tall shrub layer (speckled alder, green ash, and red osier).





Photo 17: Looking east from edge of headwater feature on neighbour's property at the narrow swamp (April 29, 2020)