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URBAN FORESTRY & FOREST MANAGEMENT CONSULTING

November 30, 2023

Erin Duncan, B.Arch, OAA, OAQ
Jane Thompson Architect
404 MacKay Street
Ottawa, ON
K1M 2C4



RE: TREE INFORMATION REPORT (FULL) FOR 1303-1313A COLDREY AVENUE, OTTAWA

This Tree Information Report (TIR) was prepared by IFS Associates Inc. (IFS) in support of an application to sever eight existing townhomes located at 1303-1313A Coldrey Avenue, along with minor variances associated with the addition of rear parking spots for each townhome. The need for this report is related to trees protected under the City of Ottawa’s Tree Protection By-law (By-law No. 2020-340).

Tree information reports are to include assessments of all impacted distinctive trees on the subject and adjacent private properties. Within the inner urban area of Ottawa distinctive trees are identified as having diameters of 30cm and greater at 1.3m from grade. Adjacent private trees are to be taken into account if their critical root zones extend onto the property slated for development. A tree’s critical root zone is calculated as diameter x 10cm. All trees of any diameter on City of Ottawa lands are to be included in tree information reports. A tree is defined in the By-law as “any species of woody perennial plant, including its root system, which has reached or can reach a minimum height of at least 450 cm at physiological maturity”.

The approval of this TIR by the city and the issuing of a permit authorizes the removal of approved trees. **Importantly, although this report may be used to support the application for a tree removal permit, it does not by itself constitute permission to remove trees or begin site clearing activities. No such work should occur before a tree removal permit is issued authorizing the injury or destruction of a tree in accordance with the By-law. Further, the removal of any trees shared with or fully on neighbouring properties will require written permission of the adjacent landowner.**

The inventory in this report details the assessment of all individual distinctive trees on the subject and adjacent private property. Trees of any size on nearby City of Ottawa lands were inventoried as well. Field work for this report was completed in August 2023.

TREE SPECIES, CONDITION, SIZE AND STATUS

Table 1 on pages 2, 3 and 4 details the individual trees on and adjacent to the subject property. Each of these trees is referenced by the numbers plotted on the tree information plan included on page 5 of this report.



TREE SPECIES, CONDITION, SIZE AND STATUS

Table 1 below details the species, ownership, size (diameter) and condition of the individual trees on and adjacent to the subject property.

Table 1. Tree information for 1303-1313A Coldrey Avenue

Tree No.	Tree species /Tolerance to Construction ¹	Owner -ship	DBH ² (cm)	CRZ ³ (m)	Distance to excavation (m) ⁴	Tree Condition, Age Class, Condition Notes, Species Origin and Status (to be removed or preserved and protected)	Reason for removal	Forester's Opinion re. Removal
1	Red oak (<i>Quercus rubra</i>) / Moderate-Good	City	15.6	1.6	>10	Very good; maturing; dominant central main stem and leader; living crown held at 1.5m from grade; good annual increment and leaf colour; native species; to be preserved and protected	Not applicable – to be preserved	NA
2	Red oak (<i>Quercus rubra</i>) / Moderate-Good	City	17.4	1.7	>10	Good; maturing; co-dominant stems at 3.5m from grade – mildly divergent with strong union; good annual increment and leaf colour; native species; to be preserved and protected	Not applicable – to be preserved	NA
3	Siberian elm (<i>Ulmus pumila</i>) / Moderate-Good	City	30.1	3.0	>10	Fair; mature; co-dominant stems at 4.5m; competing lateral at 6m topped; suppressed lateral at 2m on south; introduced invasive species; to be preserved and protected	Not applicable – to be preserved	NA
4	Red oak (<i>Quercus rubra</i>) / Moderate-Good	City	13.5	1.4	>10	Very good; maturing; dominant central main stem and leader; living crown held at 1.75m from grade; good annual increment and leaf colour; native species; to be preserved and protected	Not applicable – to be preserved	NA

Table 1. Con't

Tree No.	Tree species /Tolerance to Construction ¹	Owner ship	DBH ¹ (cm)	CRZ ² (m)	Distance to excavation (m) ³	Tree Condition, Age Class, Condition Notes, and Species Origin	Reason for removal	Forester's Opinion re. Removal
5	Manitoba maple (<i>Acer negundo</i>) / Good	Private	44.4	-	-	Poor; mature; central stem with suppressed lateral at 6m on west; recent wound from lost lateral at 1.5m on southwest; lower bole moderately divergent towards north, upper stem above 6m moderately divergent towards south; crown heavily asymmetric towards south due to pruning from Hydro lines; naturalized species; to be removed	Conflicts with proposed parking spot	Tree and stump be removed
6	Manitoba maple (<i>Acer negundo</i>) / Good	Shared	+/-50	+/-5	>5	Fair; mature; tri-dominant leaders at 6-7m from grade with generally poor unions; moderately divergent toward south; central with competing laterals at 3.5m on southeast and 4.5m on south – both heavily pruned due to Hydro lines; naturalized species; to be preserved and protected	Not applicable – to be preserved	NA
7	Manitoba maple (<i>Acer negundo</i>) / Good	Shared	+/-30	+/-3	>5	Poor; mature; central stem with competing lateral at 2m and suppressed lateral at 1m – both on north; lower main stem moderately divergent towards south, upper moderately divergent towards north; crown asymmetric towards north due to pruning from Hydro lines; naturalized species; to be preserved and protected	Not applicable – to be preserved	NA

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Tree No.	Tree species /Tolerance to Construction ¹	Ownership	DBH ¹ (cm)	CRZ ² (m)	Distance to excavation (m) ³	Tree Condition, Age Class, Condition Notes, and Species Origin	Reason for removal	Forester's Opinion re. Removal
8	White pine (<i>Pinus strobus</i>) / Moderate-Good	Neighbour	+/-40	+/-4	>5	Fair; mature; dominant central main stem for most of height; living crown held high – 11m due to pruning and influence of surrounding trees; fair crown density, annual increment and needle colour; native species; to be preserved and protected	Not applicable – to be preserved	NA
9	Norway maple (<i>Acer platanoides</i>) / Moderate-Good	Shared	+/-40 & +/-35	+/-4	>5	Fair; mature; double-stemmed from grade – upright central stem with divergent competing lateral on east; other competing laterals at 4.5m on northwest, 7m on east and 8.5m on northwest; crown asymmetric due to influence of tree #8; introduced invasive species; to be preserved and protected	Not applicable – to be preserved	NA

¹As taken from Managing Trees during Construction; 2nd Ed., Fite and Smiley; ²Diameter at breast height, or 1.3m from grade (unless otherwise indicated); ³Critical root zone (CRZ) is considered as being 10 centimetres from the trunk of a tree for every centimetre of DBH. The CRZ is calculated as DBH x 10 cm;

⁴Approximate distances only.

GENERAL NOTES

PLANS COMPLETED BY JAKE THOMPSON ARCHITECT (24/11/23)

LEGEND

- TREE TO REMAIN
- CRITICAL ROOT ZONE
- PROTECTIVE FENCING
- TREE TO BE REMOVED
- CRITICAL ROOT ZONE
- PROPOSED REPLANTING LOCATIONS

REPLACEMENT TREE OPTIONS

Large-sized Coniferous Trees
White pine (<i>Pinus strobus</i>)
White spruce (<i>Picea glauca</i>)
Larch species (<i>Larix spp.</i>)
Norway spruce (<i>Picea abies</i>)
Small/medium-sized Coniferous Trees
Serbian spruce (<i>Picea omorika</i>)
Hemlock (<i>Tsuga canadensis</i>)
Large-sized Deciduous Trees
Bur oak (<i>Quercus macrocarpa</i>)
Red oak (<i>Quercus rubra</i>)
Sugar maple (<i>Acer saccharum</i>)
Red maple (<i>Acer rubrum</i>)
Black walnut (<i>Juglans nigra</i>)
Medium-sized Deciduous Trees
Kentucky coffee tree (<i>Gymnocladus dioica</i>)
Hackberry (<i>Celtis occidentalis</i>)
Red mulberry (<i>Morus rubra</i>)
Chinese elm (<i>Ulmus parvifolia</i>)
Ginkgo (<i>Ginkgo biloba</i>)
Small-sized Deciduous Trees
Serviceberry (<i>Amelanchier spp.</i>)
Japanese tree lilac (<i>Syringa reticulata</i>)
Magnolia (<i>Magnolia spp.</i>)
Thorn-less Hawthorn (<i>Crataegus spp.</i>)
Pagoda dogwood (<i>Cornus alternifolia</i>)
Redbud (<i>Cercis canadensis</i>)



DRAWING: Tree Information Plan

PROJECT: 1303 COLOREY AVENUE CITY OF OTTAWA



Andrew K. Boyd, R.P.F.

SCALE: 1:100
 DATE: 2023-11-29
 DRAWN BY: SS
 SHEET NO: 1

1303



NEIGHBOURING DWELLING No. 1319

NEIGHBOURING DWELLING No. 1317

NEIGHBOURING DWELLING No. 1301a

NEIGHBOURING DWELLING No. 1301

R3A

EXISTING BRICK STUCCO & SIDING TOWNHOMES

Part 1, 5R-7633 PIN 04002-0070

PART 2
No. 1313A
UNIT 1

PART 4
No. 1313
UNIT 2

PART 7
No. 1311
UNIT 3

PART 12
No. 1309
UNIT 4

PART 17
No. 1307
UNIT 5

PART 22
No. 1305
UNIT 6

PART 27
No. 1303A
UNIT 7

PART 32
No. 1303
UNIT 8

9.41m (30.87') N57°29'50"E

4.93m (16.17') N57°29'50"E

4.88m (16.01') N57°29'50"E

4.83m (15.85') N57°29'50"E

5.02m (16.47') N57°29'50"E

4.83m (15.85') N57°29'50"E

4.96m (16.27') N57°29'50"E

9.21m (30.22') N57°29'50"E

48.07m (157.71') N57°29'50"E

9.25m (30.35')

1.27m (4.17')

2.89m (9.48')

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Pictures 1 to 4 on pages 9 through 11 of this report show selected trees on and adjacent to the subject property.

PROVINCIAL REGULATIONS

Certain provincial regulations are applicable to trees on private property. In particular, the Endangered Species Act (2007) mandates that tree species on the Species at Risk in Ontario (SARO) list be identified. Butternut (*Juglans cinerea*) is present in Eastern Ontario and is listed as threatened on the SARO. Because of this it is protected from harm. No trees of this species were identified on the subject property or nearby adjacent properties.

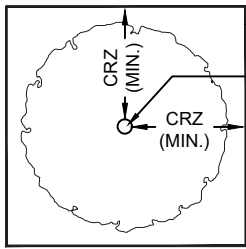
TREE PROTECTION MEASURES

Protection measures intended to mitigate damage during construction will be applied for the trees to be retained adjacent to the subject property. The following measures are the minimum required by the City of Ottawa to ensure tree survival during and following construction:

1. Erect a fence as close as possible to the critical root zone (CRZ) of trees (City of Ottawa tree protection barrier detail included on page 7).
2. Do not place any material or equipment within the CRZ of the tree.
3. Do not attach any signs, notices or posters to any tree.
4. Do not raise or lower the existing grade within the CRZ without approval.
5. Tunnel or bore when digging within the CRZ of a tree.
6. Do not damage the root system, trunk or branches of any tree.
7. Ensure that exhaust fumes from all equipment are NOT directed towards any tree's crown.

REPLACEMENT TREE PLANTING/COMPENSATION

The Tree Protection By-law sets out the following ratios in terms of tree planting for the replacement of healthy distinctive trees lost due to construction: 2:1 for each tree measuring 30-49 cm in diameter and 3:1 for each tree measuring 50 cm or greater in diameter. The city has set the replacement cost as \$400 per tree. As one tree in the range of 30-49 cm is to be removed, compensation of two trees is required. Recommended planting locations are shown on the plan on page 5.



PLAN VIEW

TREE PROTECTION FENCING

TREE TRUNK

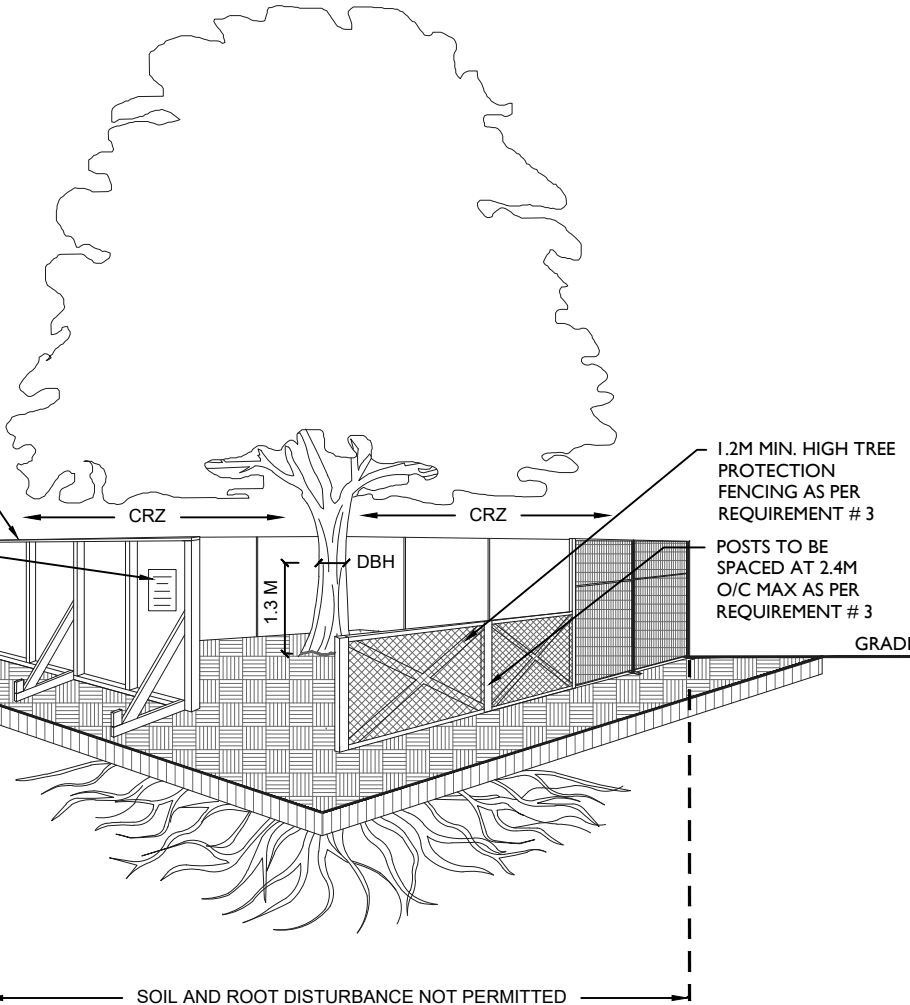
CRZ (MIN.)

CRZ (MIN.)

CRZ = DBH X 10CM.
CRZ IS TO BE MEASURED FROM THE OUTSIDE EDGE OF THE TREE BASE

TREE PROTECTION SIGNAGE AS PER CITY STANDARD

GRADE



1.2M MIN. HIGH TREE PROTECTION FENCING AS PER REQUIREMENT # 3

POSTS TO BE SPACED AT 2.4M O/C MAX AS PER REQUIREMENT # 3

SOIL AND ROOT DISTURBANCE NOT PERMITTED

TREE PROTECTION REQUIREMENTS:

1. PRIOR TO ANY WORK ACTIVITY WITHIN THE CRITICAL ROOT ZONE (CRZ = 10 X DIAMETER) OF A TREE, TREE PROTECTION FENCING MUST BE INSTALLED SURROUNDING THE CRITICAL ROOT ZONE, AND REMAIN IN PLACE UNTIL THE WORK IS COMPLETE.
2. UNLESS PLANS ARE APPROVED BY CITY FORESTRY STAFF, FOR WORK WITHIN THE CRZ:
 - DO NOT PLACE ANY MATERIAL OR EQUIPMENT - INCLUDING OUTHOUSES;
 - DO NOT ATTACH ANY SIGNS, NOTICES OR POSTERS TO ANY TREE;
 - DO NOT RAISE OR LOWER THE EXISTING GRADE;
 - TUNNEL OR BORE WHEN DIGGING;
 - DO NOT DAMAGE THE ROOT SYSTEM, TRUNK, OR BRANCHES OR ANY TREE;
 - ENSURE THAT EXHAUST FUMES FROM ALL EQUIPMENT ARE NOT DIRECTED TOWARD ANY TREE CANOPY.
 - DO NOT EXTEND HARD SURFACE OR SIGNIFICANTLY CHANGE LANDSCAPING
3. TREE PROTECTION FENCING MUST BE AT LEAST 1.2M IN HEIGHT, AND CONSTRUCTED OF RIGID OR FRAMED MATERIALS (E.G. MODULOC - STEEL, PLYWOOD HOARDING, OR SNOW FENCE ON A 2"X4" WOOD FRAME) WITH POSTS 2.4M APART, SUCH THAT THE FENCE LOCATION CANNOT BE ALTERED. ALL SUPPORTS AND BRACING MUST BE PLACED OUTSIDE OF THE CRZ, AND INSTALLATION MUST MINIMISE DAMAGE TO EXISTING ROOTS. (SEE DETAIL)
4. THE LOCATION OF THE TREE PROTECTION FENCING MUST BE DETERMINED BY AN ARBORIST AND DETAILED ON ANY ASSOCIATED PLANS FOR THE SITE (E.G. TREE CONSERVATION REPORT, TREE INFORMATION REPORT, ETC). THE PLAN AND CONSTRUCTED FENCING MUST BE APPROVED BY CITY FORESTRY STAFF PRIOR TO THE COMMENCEMENT OF WORK.
5. IF THE FENCED TREE PROTECTION AREA MUST BE REDUCED TO FACILITATE CONSTRUCTION, MITIGATION MEASURES MUST BE PRESCRIBED BY AN ARBORIST AND APPROVED BY CITY FORESTRY STAFF. THESE MAY INCLUDE THE PLACEMENT OF PLYWOOD, WOOD CHIPS, OR STEEL PLATING OVER THE ROOTS FOR PROTECTION OR THE PROPER PRUNING AND CARE OF ROOTS WHERE ENCOUNTERED.

THE CITY'S TREE PROTECTION BY-LAW, 2020-340 PROTECTS BOTH CITY-OWNED TREES, CITY-WIDE, AND PRIVATELY-OWNED TREES WITHIN THE URBAN AREA. PLEASE REFER TO WWW.OTTAWA.CA/TREEBYLAW FOR MORE INFORMATION ON HOW THE TREE BY-LAW APPLIES.

ACCESSIBLE FORMATS AND COMMUNICATION SUPPORTS ARE AVAILABLE, UPON REQUEST



TREE PROTECTION SPECIFICATION

TO BE IMPLEMENTED FOR RETAINED TREES, BOTH ON SITE AND ON ADJACENT SITES, PRIOR TO ANY TREE REMOVAL OR SITE WORKS AND MAINTAINED FOR THE DURATION OF WORK ACTIVITIES ON SITE.

SCALE: NTS

DATE: MARCH 2021

DRAWING NO.: 1 of 1

I trust this report satisfies your requirements. Please do not hesitate to contact me with any questions or comments you may have.

This report is subject to the attached Limitations of Tree Assessments and Liability to which the reader's attention is directed.

Yours,



Andrew K. Boyd, B.Sc.F, R.P.F. (#1828)
Certified Arborist #ON-0496A and TRAQualified
Consulting Urban Forester



Picture 1. Trees #1 and 2 (right to left), red oaks on City of Ottawa lands in front of 1303-1313A Coldrey Avenue



Picture 2. Trees #6 (centre-left) and 7 (centre-right), shared Manitoba maples behind 1303-1313A Coldrey Avenue



Picture 3. Tree #5, private Manitoba maple behind 1303-1313A Coldrey Avenue



Picture 4. Trees #8 and 9, neighbouring white pine (centre) and shared Norway maple (right) adjacent to 1303-1313A Coldrey Avenue

LIMITATIONS OF TREE ASSESSMENTS & LIABILITY

GENERAL

It is the policy of *IFS Associates Inc.* to attach the following clause regarding limitations. We do this to ensure that our clients are clearly aware of what is technically and professionally realistic in assessing trees for retention.

This report was carried out by *IFS Associates Inc.* at the request of the client. The information, interpretation and analysis expressed in this report are for the sole benefit and exclusive use of the client. Possession of this report or a copy thereof does not imply right of publication or use for any purpose by any other than the client to whom it is addressed. Unless otherwise required by law, neither all or any part of the contents of this report, nor copy thereof, shall be conveyed by anyone, including the client, to the public through public relations, news or other media, without the prior expressly written consent of the author, and especially as to value conclusions, identity of the author, or any reference to any professional society or institute or to any initialed designation conferred upon the author as stated in his qualifications.

This report and any values expressed herein represent the opinion of the author; his fee is in no way contingent upon the reporting of a specified value, a stipulated result, nor upon any finding to be reported. Details obtained from photographs, sketches, *etc.*, are intended as visual aids and are not to scale. They should not be construed as engineering reports or surveys. Although every effort has been made to ensure that this assessment is reasonably accurate, the tree(s) should be reassessed at least annually. The assessment presented in this report is valid at the time of the inspection only. The loss or alteration of any part of this report invalidates the entire report.

LIMITATIONS

The information contained in this report covers only the tree(s) in question and no others. It reflects the condition of the assessed tree(s) at the time of inspection and was limited to a visual examination of the accessible portions only. *IFS Associates Inc.* has prepared this report in a manner consistent with that level of care and skill ordinarily exercised by members of the forestry and arboricultural professions, subject to the time limits and physical constraints applicable to this report. The assessment of the tree(s) presented in this report has been made using accepted arboricultural techniques. These include a visual examination of the above-ground portions of each tree for structural defects, scars, cracks, cavities, external indications of decay such as fungal fruiting bodies, evidence of insect infestations, discoloured foliage, the condition of any visible root structures, the degree and direction of lean (if any), the general condition of the tree(s) and the surrounding site, and the proximity of people and property. Except where specifically noted in the report, the tree(s) examined were not dissected, cored, probed or climbed to gain further evidence of their structural condition. Also, unless otherwise noted, no detailed root collar examinations involving excavation were undertaken.

While reasonable efforts have been made to ensure that the tree(s) proposed for retention are healthy, no warranty or guarantee, expressed or implied, are offered that these trees, or any parts of them, will remain healthy or standing safely following construction. This includes other trees on or off the property not examined as part of this assignment. This includes other trees on or off the property not examined as part of this assignment. It is both professionally and practically impossible to predict with absolute certainty the behaviour of any single tree or groups of trees or their component parts in all circumstances, especially when within construction zones. Inevitably, a standing tree will always pose some risk. Most trees have the potential for failure in the event of root loss due to excavation and other construction-related impacts. This risk can only be eliminated through full tree removal.



Notwithstanding the recommendations and conclusions made in this report, it must be realized that trees are living organisms, and their health and vigour constantly change over time. They are not immune to changes in site conditions, or seasonal variations in the weather. It is a condition of this report that *IFS Associates Inc.* be notified of any changes in tree condition and be provided an opportunity to review or revise the recommendations within this report. Recognition of changes to a tree's condition requires expertise and extensive experience. It is recommended that *IFS Associates Inc.* be employed to re-inspect the tree(s) with sufficient frequency to detect if conditions have changed significantly.

ASSUMPTIONS

Statements made to *IFS Associates Inc.* in regards to the condition, history and location of the tree(s) are assumed to be correct. Unless indicated otherwise, all trees under investigation in this report are assumed to be on the client's property. A recent survey prepared by a Licensed Ontario Land Surveyor showing all relevant trees, both on and adjacent to the subject property, will be provided prior to the start of field work. The final version of the grading plan for the project will be provided prior to completion of the report. Any further changes to this plan invalidate the report on which it is based. *IFS Associates Inc.* must be provided the opportunity to revise the report in relation to any significant changes to the grading plan. The procurement of said survey and grading plan, and the costs associated with them both, are the responsibility of the client, not *IFS Associates Inc.*

LIABILITY

Without limiting the foregoing, no liability is assumed by *IFS Associates Inc.* for: 1) any legal description provided with respect to the property; 2) issues of title and/or ownership with respect to the property; 3) the accuracy of the property line locations or boundaries with respect to the property; 4) the accuracy of any other information provided by the client or third parties; 5) any consequential loss, injury or damages suffered by the client or any third parties, including but not limited to replacement costs, loss of use, earnings and business interruption; and, 6) the unauthorized distribution of the report.

INDEMNIFICATION

An applicant for a permit or other approval based on this report shall agree to indemnify and save harmless *IFS Associates Inc.* from any and all claims, demands, causes of action, losses, costs or damages that affected private landowners and/or the City of Ottawa may suffer, incur or be liable for resulting from the issuance of a permit or approval based on this report or from the performance or non-performance of the applicant, whether with or without negligence on the part of the applicant, or the applicant's employees, directors, contractors and agents.

Further, under no circumstances may any claims be initiated or commenced by the applicant against *IFS Associates Inc.* or any of its directors, officers, employees, contractors, agents or assessors, in contract or in tort, more than 12 months after the date of this report.

ONGOING SERVICES

IFS Associates Inc. accepts no responsibility for the implementation of any or all parts of the report, unless specifically requested to supervise the implementation or examine the results of activities recommended herein. In the event that examination or supervision is requested, that request shall be made in writing and the details, including fees, agreed to in advance.