

Aggregate resources of Ontario standards:

A compilation of the four
standards adopted by
Ontario Regulation 244/97
under the *Aggregate
Resources Act*

The following document is a compilation of four different standards adopted by Ontario Regulation 244/97 under the *Aggregate Resources Act*:

- Aggregate Resources of Ontario: Site Plan Standards, August 2020
- Aggregate Resources of Ontario: Technical Reports and Information Standards, August 2020
- Aggregate Resources of Ontario: Amendment Standards, August 2020
- Aggregate Resources of Ontario: Circulation Standards

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Part 1:

Aggregate resources of Ontario: Site plan standards

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Recommended references

When applying for a licence, aggregate permit or wayside permit and depending on the location of the proposed site, the applicant may wish to pre-consult with agencies that will be circulated the application for review.

The following is a list of references that applicants may find useful when preparing the information described in the above standards:

- a) Provincial Policy Statement and associated technical guidance material (e.g. the natural heritage reference manual);
- b) *Endangered Species Act, 2007*
- c) *Federal Species at Risk Act*
- d) Federal Fisheries Act and Associated Guidelines;
- e) Oak Ridges Moraine Conservation Plan (e.g., Oak Ridges Moraine Conservation Plan and Technical Paper)
- f) The Greenbelt Plan, (e.g., Greenbelt Technical Paper)
- g) A Place to Grow: Growth Plan for the Greater Golden Horseshoe
- h) *Niagara Escarpment Planning and Development Act* and Niagara Escarpment Plan
- i) *Lake Simcoe Protection Act*, and Lake Simcoe Protection Plan
- j) Growth Plan for Northern Ontario
- k) Parkway Belt West Plan
- l) Central Pickering Development Plan
- m) Northern Ontario Growth Plan
- n) Zoning by-law(s);
- o) Official Plan(s);
- p) Crown Land Use Planning Atlas and associated land use direction/plans (e.g., Community Based Land Use Plans)
- q) Applicable Resource Management Plans (e.g., Forest Management Plans (FMP))
- r) *Ontario Heritage Act*, associated regulations, standards, guidelines and guidance documents
- s) Association of Professional Geoscientists of Ontario Professional Practices Guidelines for Groundwater Resources
- t) *Ontario Water Resources Act*;
- u) *Conservation Authorities Act*;
- v) *Clean Water Act, 2006*

- w) *Environmental Protection Act* and technical guidelines, including for noise, dust and blasting;
- x) *Environmental Assessment Act*

The above list serves only as a guide and should not be interpreted as all-inclusive

For additional information please visit Ontario's website

[Aggregate Resources](#)

Or

Ministry of Natural Resources and Forestry
Natural Resources Information and Support Centre (NRISC)
300 Water Street
Peterborough, Ontario
K9J 8M5
Toll-free: 1-800-667-1940
(Monday to Friday 8:30 am to 5:00 pm except statutory holidays)
TTY: 1-866-686-6072
nrisc@ontario.ca

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Aggregate resources of Ontario: Site plan standards

The site plan must be submitted electronically in PDF format using metric units of measurement.

For applications for a Class A licence or an aggregate permit proposing to excavate or remove more than 20,000 tonnes annually: the site plan must consist of a minimum of three (3) separate drawings.

The site plan notes must be comprised of clear unambiguous language. The site plan must be readable digitally and when printed.

The site plan must include any of the following measures, programs, or areas that must be undertaken as identified in the Technical Reports and Information that are required to be prepared for an application:

- mitigation measures
- monitoring programs
- avoidance areas
- temporary avoidance and protection areas
- and refer to an adaptive management plan(s)

Each drawing included on the site plan must be numbered and indicate the total number of drawings included (e.g., 1 of 4)

All site plans must be prepared according to the following minimum information requirements:

1. a key map showing the location of the proposed site
2. a general description of the geographic location of the site including, where applicable: lot; concession; geographic township; local municipality; upper tier municipality; and territorial district. In unsurveyed areas of the province, Universal Transverse Mercator (UTM) easting and northing coordinates must be provided in lieu of lot and concession.
3. UTM easting and northing coordinates, measured using a Global Positioning System receiver, for every corner of the proposed site boundary and the

- centre point of every entrance and exit where it intersects the site boundary. If the boundary does not follow straight lines, a digital shapefile that includes metadata and projection files for each shapefile may be provided.
4. a scale of reference using both ratio and graphic methods between a scale of 1:1000 and 1:5000
 5. Applicant's name, address and signature
 6. **For wayside permit applications:** the public authority that is a party to the contract, the project number and the location of the project
 7. Name and signature of the person that prepared the site plan if not the applicant
 8. A statement that "this site plan is prepared under the *Aggregate Resources Act* for a [Class A licence/Class B licence/aggregate permit/wayside permit] for a [pit/quarry/pit and quarry] [above/below the ground water table]
 9. A north arrow, normally pointing towards the top of the page
 10. A schedule for recording a description of site plan amendments, including dates the amendment was made or approved
 11. A legend on each page showing all symbols and acronyms used on that page
 12. The proposed boundary of the site
 13. The area of the site expressed in hectares
 14. Lot and concession lines if in a surveyed area
 15. A list of references, if any, which apply specifically to the preparation of the site plan drawing

Existing features

16. The existing zoning of land on and within 120 metres of the site, where applicable
17. The use of land on and within 120 metres of the site, such as land uses and land designations
18. The maximum predicted water table (metres above sea level)
19. The location of all existing entrance(s) to and exit(s) from the site
20. Significant natural features on and within 120 metres of the site
21. Significant human-made features on and within 120 metres of the site
22. The location and use of all buildings and other structures existing on and within 120 metres of the site
23. The topography of the site, illustrated by a one or two metre contour interval, expressed as metres above mean sea level
24. Existing surface water drainage and drainage facilities on and within 120 metres of the site
25. The location of existing tree cover (i.e. wood lots and hedge rows) on site and within 120 metres of the site
26. The location and type of existing fences on the site

Existing Features for Sites That Have Been Previously Excavated

27. Any existing excavation faces and rehabilitated areas
28. The location of any existing recyclable materials on the site
29. Any existing fuel storage area(s) on the site
30. The location of any existing processing area(s) for stationary and/or portable equipment
31. The location of any existing berms and their height

32. The location of any existing processing area(s), noting whether stationary or portable equipment

Operations for all sites

33. The location of all proposed entrance(s) to and exit(s) from the site
34. The area to be excavated expressed in hectares
35. **For applications for an aggregate permit:** details about how the boundary of the site will be demarcated and details about what measures will be taken in accordance with the *Trespass to Property Act* to provide notice that unauthorized entry on the premises is prohibited
36. **For applications for a Class A or Class B licence:** the location and installation schedule or phasing for any proposed fencing around the licensed boundary of the site
37. A statement indicating if the following will be located on the site at any point during the operation of the site:
 - a. temporary building or structure that is incidental to the operation of the site
 - b. scrap storage area
 - c. a stockpile of aggregate, topsoil, overburden, except for any such stockpiles located to mitigate noise or dust
 - d. internal haul roads
38. The location of any proposed stationary and/or temporary processing area(s) on the site
39. The location of any proposed recyclable materials on the site
40. The proposed sequence and direction of site development

41. Details of how the stripping and stockpiling of the topsoil and overburden will be managed
42. The maximum number of lifts and the maximum height of the lifts
43. Any proposed surface water drainage and drainage facilities, water diversion and points of discharge to surface water on the site or within 120 metres of the site
44. A statement indicating whether source water protection policies apply to the site, noting any associated mitigation measures
45. Identify any fuel storage area(s)
46. The location and labelling of all excavation setbacks from the proposed site boundary
47. The final excavation elevation(s) of the site using spot elevations
48. The location and minimum height of any proposed berms
49. Details on how the berms will be vegetated and maintained
50. Details of how the aggregate materials will be excavated, including the method(s) of extraction and a listing of the types of equipment to be used
51. Details of proposed tree screens and how they will be maintained
52. Details on the hours of operation of the site considering all operations that involve the physical movement of aggregate
53. Details of how trees and stumps shall be disposed of or utilized

54. A section recording any differences between proposed operations and the operational requirements specified in section 0.13 of Ontario Regulation 244/97
55. A statement to indicate the maximum number of tonnes of aggregate to be removed from the site in any calendar year
56. **If the proposed site is located within the Protected Countryside of the Greenbelt Plan:** a statement to indicate the maximum allowable disturbed area for the site
57. **For an application for a quarry proposing to blast:** details about frequency and timing of blasts
58. **For an application for a quarry proposing to blast:** the number of sensitive receptors that are located within 500 metres of the boundary of the site and the distance from the boundary to each sensitive receptor

Rehabilitation

59. Proposed final rehabilitated state of the site
60. Details on how progressive rehabilitation will be conducted in relation to the operational sequences
61. Details on how the overburden and topsoil will be used to facilitate progressive and final rehabilitation
62. A statement indicating whether any soil, topsoil or fill material will be imported to the site for rehabilitation purposes. Where rehabilitation materials are to be imported, details on the type, use, volumes and quality of those materials, as well as details on any related testing, tracking and record-keeping that will be carried out

63. The location, layout and type of vegetation that will be established on the site during progressive and final rehabilitation
64. Details about how the slopes will be established on the excavation faces and the pit/quarry floor
65. Details about any building(s) or structure(s), including any internal haul roads, that will remain on the site as part of the final rehabilitation
66. Details about the final surface water drainage and whether drainage facilities will remain on the site
67. **For an application for a Class A licence or an aggregate permit that would authorize the extraction or removal of more than 20,000 tonnes of aggregate per year:** the final elevations of the rehabilitated areas of the site illustrated by a one or two metre contour interval(s), expressed as metres above mean sea level
68. **For an application for a Class B licence or an aggregate permit that would authorize the extraction or removal 20,000 tonnes of aggregate or less per year:** the final elevations of the rehabilitated areas of the site expressed as metres above sea level

Cross sections

69. Identify the location of cross sections on all drawings
70. Appropriate horizontal and vertical scales must be clearly marked on all cross sections
71. One or more cross-sections of existing conditions and rehabilitation of the site, including final slope gradients and final floor elevation
72. The maximum predicted ground water table

73. **For an application for a Class A licence or an aggregate permit that would authorize the extraction or removal of more than 20,000 tonnes of aggregate per year** a cross-section of a typical berm design, if berms will be constructed on the site

Applications for aggregate permit to extract from land under water

Applications for an aggregate permit to extract from land under water must include a site plan prepared in accordance with all requirements as noted above, with the exception that the requirements outlined in paragraphs 16 to 74 above are replaced with those in the paragraphs 75 to 100 below:

74. A key map showing the following if located within 500 metres of the proposed extraction area:
- the location of the site relative to land
 - demarcation of any boundaries including municipal, provincial, or international boundaries
75. Identify if the following is located within 500 metres of the proposed extraction area:
- geothermal systems,
 - source protection zones that include drainage areas and/or dams
 - any zones with contaminated sediment
76. The name of the water body from which extraction is proposed.
77. UTM easting and northing coordinates and any identified offshore tracts or other boundaries within the proposed permit site
78. A scale of 1:10,000 to 1:50,000 or using available topographic mapping and bathometric charts of a similar scale
79. Low water elevation or “chart datum” (metres above sea level);

80. If the proposed permit area is within 500 metres of any shoreline, the topography (using 2 metre contour intervals) and drainage features for all land extending 0.5 metre inland of the shoreline areas must be shown
81. The bathymetry of the water bottom within 1000 metres of the site (using 2 metre contour intervals)
82. The location and use of all shoreline, nearshore and offshore facilities and related structures (e.g. harbours, wharves, water intakes, sewage outfalls, pipelines, well heads), and navigational aids and navigational channels located within 500 metres of the proposed extraction area
83. A statement summarizing ownership of the proposed permit area (e.g. Crown or private)
84. Significant natural or human-made features within 500 metres of the proposed extraction area
85. The location, type and installation schedule of any structures to be established within the permit site (e.g. navigational aids, monitoring stations)
86. Clearly identify the sequence and direction of extraction including the area (in hectares) of each extraction area and the proposed depth of extraction below the normal water bottom
87. Details of how the aggregates are to be removed, including a listing of the types of equipment to be used (e.g. clam or suction dredge), and details of the extraction process, designed depth of extraction and discharge procedure and depth of discharge;
88. The sequence and direction of extraction including the proposed location of transects (e.g. random or grid pattern) across the proposed permit or extraction areas, particularly if a suction dredge is to be used
89. Describe the duration (seasons, months, days or hours) of extraction and any restrictions identified in the background reports

90. The bathymetry of the water bottom within the permit area using 2 metre contour levels
91. Identify the shoreline destination(s) for off-loading
92. Location and design of any remedial measures required and composition of the post extractive substrate
93. A statement to indicate the maximum number of tonnes of aggregate to be removed from the site in any calendar year
94. Location of cross sections
95. The low water elevation or "chart datum" (metres above sea level);
96. The location of natural features if applicable
97. The location of human-made features if applicable;
98. The topography of the water bottom
99. Location and design of any proposed remedial measures

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Part 2:

Aggregate Resources of Ontario: Technical reports and information standards

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- t. *Ontario Water Resources Act*;
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- v. *Clean Water Act, 2006*

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Aggregate resources of Ontario: Technical reports and information standards

This Standard has two parts which must accompany all applications:

- 1) a summary statement, which can be authored by the applicant where the applicant possesses appropriate qualifications and experience, and
- 2) technical reports, which are to be authored by qualified individuals where specified.

All technical reports and information described below must be submitted electronically in PDF format.

An applicant for a licence must furnish information satisfactory to the Minister describing the zoning by-laws applicable to the site and adjacent lands.

For the purpose of this Standard:

“ground water table” means

- a) for unconsolidated surficial deposits, the ground water table is the surface of an unconfined water-bearing zone at which the fluid pressure in the unconsolidated medium is atmospheric. Generally, the ground water table is the top of the saturated zone.
- b) for confined water bearing zones or consolidated bedrock materials, the ground water table, or potentiometric surface, is a level that represents the fluid pressure in the water bearing zone and is generally defined by the level to which water will rise in a well.

Note: The ground water table is not static and is expected to vary from location to location and over time.

“maximum predicted water table” means the maximum ground water elevation (metres above sea level) predicted by a qualified person who has considered conditions at the site and mean annual precipitation levels. For confined water bearing zones the ground water table is the level to which water will rise in a well.

“**mitigate**” means to alleviate, moderate or reduce the severity of impacts.

Part 1.0: Summary statement

All applicants for a **Class A licence, Class B licence, aggregate permit or wayside permit** must complete and submit a summary statement that includes the name and title of the author and contains the following information:

- 1.1. The agricultural classification of the proposed site, using the Canada Land Inventory classes. For any lands being returned to agriculture use as part of rehabilitation, the proposed rehabilitation techniques must be identified.

Summary statements for applications for a **Class A licence, Class B licence or an aggregate permit** must include the following information:

- 1.2. Applicable planning and land use considerations that are relevant on or adjacent to where the proposed site will be located, such as provincial or Crown land plans/policies and municipal planning documents.
- 1.3. If the proposed site is in a source protection area under the *Clean Water Act*, identify activities proposed at the site that are drinking water threats set out in applicable source protection plans, and provide details of how relevant source water protection policies will be followed and associated mitigation measures that will be implemented.

Summary statements for applications for a **Class A licence** must include the following information:

- 1.4. The quality and quantity of aggregate on site
- 1.5. The main haulage routes and proposed truck traffic to and from the site as well as, applicable entrance permits

- 1.6. The progressive and final rehabilitation and the suitability of the proposed rehabilitation having regard to adjacent lands

Summary statements for applications for a **wayside permit** must include the following information:

- 1.7. The identification of the alternative resources of supply for the required aggregate
- 1.8. The estimated cost of the aggregate for the project as compared with that from any alternative sources of supply
- 1.9. The main haulage routes and proposed truck traffic to and from the site

Part 2.0 Technical reports

Applications for a **Class A licence, Class B licence, or an aggregate permit** must include the following technical reports as described in the following sections of this Standard:

- 2.1 Maximum Predicted Water Table Report
- 2.2 Natural Environment Report
- 2.3 Cultural Heritage Report
- 2.4 Agricultural Impact Assessment Report (subject to specified criteria)
- 2.5 Water Report, where proposing to extract below the maximum predicted water table
- 2.6 Blast Design Report, where proposing a quarry that will be blasting (subject to specified criteria)

Applications for a Class A licence or for an aggregate permit that would authorize the extraction or removal of more than 20,000 tonnes of aggregate per year must include the following technical report as described in section:

- 2.7 Noise Assessment Report (subject to specified criteria)

Applications for a **wayside permit** must include the following technical reports as described in the following sections of this Standard:

- 2.1 Maximum Predicted Water Table Report

- 2.2 Natural Environment Report
- 2.3 Cultural Heritage Report
- 2.5 Water Report, where proposing to extract below the maximum predicted water table

All assessments in technical reports must contain the following information:

- Methodology, the approach or the series of steps taken to make determinations
- Data that supports the conclusions in the report
- Mitigative measures to address potential impacts
- Proposed contingency and mitigative measures that will be implemented if unforeseen impacts occur

Unless otherwise specified, all technical report(s) must be prepared by a person with appropriate training and/or experience.

Each report must state the qualifications and experience of the individual(s) that have prepared the report(s).

Technical Reports involving the study of ground water must be prepared by a qualified person. A qualified person means a registered Professional Geoscientist or exempted Professional Engineer with appropriate training and experience in accordance with the *Professional Geoscientists Act, 2000*. When the qualified person cannot conclusively determine that impacts to surface water features will not occur, an appropriate qualified person with expertise in surface water impacts needs to be consulted.

2.1 Maximum predicted water table report

A report must be prepared that details how the maximum predicted water table is identified in metres above sea level, relative to the proposed depth of excavation at the site.

The maximum predicted water table shall be determined by monitoring the ground water table at the site for a minimum of one (1) year to account for seasonal variations and influences due to precipitation, unless alternative information already

exists (e.g. previous hydrogeological study, existing well data) to support a determination of the maximum predicted water table by a qualified person.

An alternative method may be used for sites determining the maximum water table in Precambrian rocks of the Canadian Shield where it is difficult to determine the elevation of the water table. In such cases, the maximum predicted water table may be assumed at an elevation (metres above sea level) that is a minimum of 2.5 metres below the deepest sump or pond on the site, provided a qualified person develops and oversees a drilling and monitoring program to determine if the ground water table would be intercepted at the assumed maximum predicted water table.

The number of drill holes and seasonal monitoring frequency shall be determined by a qualified person based on site conditions.

2.2. Natural environment report

The report must identify any of the following natural heritage features and areas that exist on the site and within 120 metres of the site:

- a) significant wetlands
- b) other coastal wetlands in Ecoregions 5E, 6E and 7E,
- c) fish habitat,
- d) significant woodlands and significant valleylands in Ecoregions 6E and 7E (excluding islands in Lake Huron and the St. Mary's River)
- e) habitat of endangered species and threatened species,
- f) significant wildlife habitat,
- g) significant areas of natural and scientific interest,
- h) Within the area of one or more provincial plan(s), any key natural heritage features not included in (a) through (g)

Where any of the above features or areas have been identified, the report must identify and evaluate any negative impacts on the natural features or areas, including their ecological functions, and identify any proposed preventative, mitigative or remedial measures. The report must also identify if the site or any of the features, included in (a) through (g), are located within a natural heritage system

that has been identified by a municipality in ecoregions 6E and 7E or by the province as part of a provincial plan.

For the purposes of this section, "provincial plan" means any one of the following plans:

- Oak Ridges Moraine Conservation Plan
- Greenbelt Plan
- A Place to Grow: Growth Plan for the Greater Golden Horseshoe
- Niagara Escarpment Plan
- Lake Simcoe Protection Plan

2.3 Cultural heritage report

The report must be consistent with provincial requirements under the *Ontario Heritage Act* and the Provincial Policy Statement.

A completed screening checklist evaluating the potential for archaeological resources with supporting documentation is required. If the checklist identifies archaeological potential, an archaeological assessment report(s) must be completed by a licensed archaeologist. If an archaeological assessment is completed, letter(s) from the Ministry of Heritage, Sport, Tourism and Culture Industries must be obtained. If applicable, temporary avoidance and protection must be confirmed in the letter.

A completed screening checklist evaluating the potential for built heritage resources and cultural heritage landscapes with supporting documentation is required. If the checklist identifies the potential for built heritage resources and/or cultural heritage landscapes, a Cultural Heritage Evaluation Report is required and must be prepared by a person with appropriate experience and expertise. If the evaluation confirms one or more built heritage resources or cultural heritage landscapes, a Heritage Impact Assessment must be completed. If the application is on Crown Land or an unorganized territory, letter(s) from the Ministry of Heritage, Sport, Tourism and Culture Industries must be obtained.

2.4. Agricultural impact assessment report

An Agricultural Impact Assessment must be completed in accordance with provincial guidance where a provincial plan requires such an assessment for aggregate applications proposed in “prime agricultural areas”.

For the purposes of this section, “provincial plan” means any one of the following plans:

- Oak Ridges Moraine Conservation Plan
- Greenbelt Plan
- A Place to Grow: Growth Plan for the Greater Golden Horseshoe
- Niagara Escarpment Plan

2.5. Water report

Excavation at a pit proposed above the water table may not occur within 1.5 metres above the maximum predicted water table. Excavation at a quarry proposed above the water table may not occur within 2 metres above the maximum predicted water table.

Applications proposing to excavate below the maximum predicted water table must complete the following:

Water report level 1:

Determine the potential for impacts to ground water and surface water resources and their uses (e.g. water wells, ground water aquifers, surface water courses and bodies, springs, discharge areas) and identify if the proposed site is in a Wellhead Protection Area for Quantity (WHPA-Q) set out in an applicable source water protection plan under the *Clean Water Act*. If so, identify applicable source water protection policies and mitigation measures that will be implemented at the site.

Water report level 2:

Where the results of Level 1 have identified a potential for impacts from the aggregate site on ground water and/or surface water resources and their uses, an impact assessment is required. The assessment is to determine the significance of the effect and the potential for mitigation.

The assessment must address the potential effects of the operation on any ground water and surface water features located within the zone of influence, including but not limited to:

- a) water wells (includes all types e.g. municipal, private, industrial, commercial, geothermal and agricultural)
- b) springs (e.g., place where ground water flows out of the ground)
- c) ground water aquifers;
- d) surface water courses and bodies (e.g., lakes, rivers, brooks)
- e) wetlands

The assessment must include but not be limited to the following:

- f) a description of the physical setting including local geology, hydrogeology, and surface water systems;
- g) proposed water diversion, discharge, storage and drainage facilities;
- h) water budget (e.g. how water is managed on-site);
- i) the possible positive or negative impacts that the proposed site may have on the water regime;

The Level 2 water report must also contain:

- j) monitoring plan(s); and
- k) technical support data in the form of tables, graphs and figures, usually appended to the report.

For aggregate permits in a remote area: Notwithstanding the requirements described above, a Level 1 and Level 2 Water Report is only required if the excavation limit of the proposed site is within 500 metres of a coldwater stream,

1000 metres of a water well (whether dug or drilled), and 5 kilometres of a sensitive receptor.

2.6. Noise assessment report

A noise assessment report is required if proposed excavation and/or processing facilities are:

- a) within 150 metres of a sensitive receptor, for a pit operation; or
- b) within 500 metres of a sensitive receptor, for a quarry operation.

The noise assessment report must determine if provincial noise guidelines for Stationary and Transportation Sources can be satisfied if the pit or quarry operation is carried out as proposed in the application.

2.7. Blast design report

Applications for a Class A licence or for an aggregate permit, for a quarry that would authorize the extraction or removal of more than 20,000 tonnes of aggregate per year must complete the following:

A blast design report is required if a sensitive receptor is within 500 metres of the limit of excavation to demonstrate that provincial guidelines for blast overpressure and ground vibration can be satisfied.

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Aggregate resources of Ontario: Amendment standards

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Recommended references

When applying for a licence, aggregate permit or wayside permit and depending on the location of the proposed site, the applicant may wish to pre-consult with agencies that will be circulated the application for review.

The following is a list of references that applicants may find useful when preparing the information described in the above standards:

- a. Provincial Policy Statement and associated technical guidance material (e.g. the natural heritage reference manual);
- b. *Endangered Species Act, 2007*
- c. *Federal Species at Risk Act*
- d. Federal Fisheries Act and Associated Guidelines;
- e. Oak Ridges Moraine Conservation Plan (e.g., Oak Ridges Moraine Conservation Plan and Technical Paper)
- f. The Greenbelt Plan, (e.g., Greenbelt Technical Paper)
- g. A Place to Grow: Growth Plan for the Greater Golden Horseshoe
- h. *Niagara Escarpment Planning and Development Act* and Niagara Escarpment Plan
- i. *Lake Simcoe Protection Act*, and Lake Simcoe Protection Plan
- j. Growth Plan for Northern Ontario
- k. Parkway Belt West Plan
- l. Central Pickering Development Plan
- m. Northern Ontario Growth Plan
- n. Zoning by-law(s);
- o. Official Plan(s);
- p. Crown Land Use Planning Atlas and associated land use direction/plans (e.g., Community Based Land Use Plans)
- q. Applicable Resource Management Plans (e.g., Forest Management Plans (FMP))
- r. *Ontario Heritage Act*, associated regulations, standards, guidelines and guidance documents
- s. Association of Professional Geoscientists of Ontario Professional Practices Guidelines for Groundwater Resources
- t. *Ontario Water Resources Act*;
- u. *Conservation Authorities Act*;
- v. *Clean Water Act, 2006*

- w. *Environmental Protection Act* and technical guidelines, including for noise, dust and blasting;
- x. *Environmental Assessment Act*

The above list serves only as a guide and should not be interpreted as all-inclusive

For additional information please visit Ontario's website

Aggregate Resources

Or

Ministry of Natural Resources and Forestry
Natural Resources Information and Support Centre (NRISC)
300 Water Street
Peterborough, Ontario
K9J 8M5
Toll-free: 1-800-667-1940
(Monday to Friday 8:30 am to 5:00 pm except statutory holidays)
TTY: 1-866-686-6072
nrisc@ontario.ca

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Aggregate resources of Ontario: Amendment standards

1. Technical report and information requirements

Amendment **applications to lower the depth of extraction in an area of a licence or aggregate permit that does not allow extraction below the water table** under section 13.1 or 37.2 of the Act must be accompanied by the documents described in the following sections of this Standard:

- 1.1 Water Assessment
- 1.2 Natural Environment Assessment
- 1.5 Planning and Land Use Considerations
- 1.6 Source Water Considerations

Amendment **applications to expand a licence boundary into an adjacent road allowance** under section 13.2 of the Act must be accompanied by the documents described in the following sections of this Standard:

- 1.1 Water Assessment, if extracting below the water table
- 1.2 Natural Environment Assessment
- 1.3 Cultural Heritage Assessment
- 1.4 Agricultural Assessment
- 1.5 Planning and Land Use Considerations
- 1.6 Source Water Considerations

1.1 Water assessment

1.1.1 For applications to lower the depth of extraction of a licence or aggregate permit where extraction is not permitted below the water table, the applicant must submit a Water Report prepared by a qualified person that includes the information described in section 2.5 of the Technical Report and Information Standards.

- 1.1.2 If the site is in a source protection area under the Clean Water Act, identify activities proposed at the site that are drinking water threats set out in applicable source protection plans, and provide details of how relevant source water protection policies will be followed and associated mitigation measures that will be implemented.
- 1.1.3 For applications to lower the depth of extraction of a licence or aggregate permit in an area of the site that does not currently allow extraction below the water table but where extraction below the water table is permitted in other areas of the site, and for applications to expand a licence boundary into an adjacent road allowance to extract below the water table, applicants must have a qualified professional prepare a supplement to a water report that had previously been completed for the site that:
- a) identifies whether extracting below water in the area of the site identified in the proposed amendment would have any negative impacts on any water features or resources and their uses located in the zone of influence for extraction below the water table, and
 - b) proposes preventative, mitigative or remedial measures to address any negative impacts identified in 1.2.1.
- 1.1.4 Notwithstanding the above, where no water report has been previously completed, applicants must prepare a Water Report following requirements that would apply if the application were being made for a new licence or aggregate permit.

1.2 Natural environment assessment

The applicant must have a person with appropriate training and expertise prepare a document that includes the information described in section 2.2 of the Technical Report and Information Standards, with the following modifications:

- a) for applications to expand a licence boundary into an adjacent road allowance, only natural features and areas located on or within 120 metres of the boundary of new expansion area must be included in the assessment,

- b) for applications to lower the depth of extraction of a licence or aggregate permit in an area of the site that does not currently allow below the water table extraction but where extraction below the water table is permitted in other areas of the site, the applicant must have a person with appropriate training and experience determine whether the scope of the amendment proposed will have impacts on natural heritage features and areas identified in section 2.2. of the Technical Report and Information Standards.

1.3 Cultural heritage assessment

For applications to expand a licence boundary into an adjacent road allowance where the proposal would allow extraction within the road allowance area, the applicant must prepare a report that includes the information described in section 2.5 of the Technical Report and Information Standards to assess the new expansion area within the road allowance.

1.4 Agricultural assessment

- 1.4.1 For applications to expand a licence boundary into an adjacent road allowance, an Agricultural Impact Assessment must be completed in accordance with provincial guidance where the provincial plan requires such an assessment if the road allowance area is proposed in "prime agricultural areas". The applicant must determine if the potential for any new or incremental impacts that may result from an expansion into the road allowance.
- 1.4.2 For the purposes of this section, "provincial plan" means any one of the following plans:
- Oak Ridges Moraine Conservation Plan
 - Greenbelt Plan
 - A Place to Grow: Growth Plan for the Greater Golden Horseshoe
 - Niagara Escarpment Plan

1.5 Planning and land use considerations

- 1.5.1 A statement must be prepared which details any applicable planning and land use considerations that are relevant on or adjacent to where the proposed site will be located, such as provincial or Crown land plans/policies and municipal planning documents
- 1.5.2 Despite section 1.5.1, any provision of a zoning by-law that restricts depth of aggregate extraction is inoperative as per s.12.1(1.1) of the Act.

1.6 Source water considerations

If the site is in a source protection area under the Clean Water Act, identify activities proposed at the site that are drinking water threats set out in applicable source protection plans, and provide details of how relevant source water protection policies will be followed and associated mitigation measures that will be implemented.

2.0 Site plan requirements

- 2.1 The site plan must be updated to clearly describe and incorporate any changes to the extraction phasing, operations or rehabilitation that would result from the proposed amendment.
- 2.2 Any revisions to the site plan must be made in accordance with requirements that would apply if the application were being made for a new licence or aggregate permit.
- 2.3 Any mitigation and/or monitoring measures that must be undertaken, as identified in the required technical report and information requirements must be described on the site plan.
- 2.4 For Class A licences and aggregate permits approved to remove more than 20,000 tonnes per year, a qualified site plan professional must prepare the updated or new site plan or site plan page(s).

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Aggregate resources of Ontario: Circulation standards

Indigenous consultation

The applicant shall consult with Indigenous Communities and/or organizations as directed by the Ministry of Natural Resources and Forestry regarding the potential impacts on asserted or established Aboriginal and treaty rights.

Section 1: Applications for a licence, aggregate permit or wayside permit

As per section 0.4 of the regulation, on or before the date the notification period begins, an applicant for a licence, aggregate permit and wayside permit must send the complete application package and the Public Notice of Application Form to the applicable agencies identified below for comments. It is the applicant's responsibility to determine the appropriate contact office and person prior to notification.

Agencies to which the application package and Public Notice of Application Form must be circulated:

- (a) The local municipality and the upper tier municipality in which the site is located;
- (b) Any Conservation Authority with jurisdiction over the area of the site (excluding wayside permits)
 - to determine if the proposed site is within an area regulated under the *Conservation Authorities Act*;
 - if the proposed site is in a regulated area, to review for potential negative impacts related to flooding, erosion or other natural hazards;
- (c) Ministry of Agriculture, Food & Rural Affairs (OMAFRA)
 - if prime agricultural area(s) are not being restored to the same average soil quality and/or
 - where an Agricultural Impact Assessment has been completed
- (d) Ministry of the Environment, Conservation and Parks (MECP)

- To review information where the natural environment report identifies habitat for Endangered and Threatened Species
 - if Level 2 water report is completed,
 - if the proposed site is within 120 metres of a provincial park or conservation reserve;
- (e) Ministry of Transportation
- All aggregate permit applications
 - All licence applications if the proposed site is within 120 metres of a provincial right of way
- (f) Ministry of Heritage, Sport, Tourism and Culture Industries,
- if the application is on Crown Land, for review of Built Heritage or Cultural Heritage Landscape reports or where no *Planning Act* approval is required
- g) Fisheries and Oceans Canada
- if Technical Reports and Information indicates the potential for impacts to fish habitat;
- h) Niagara Escarpment Commission (NEC)
- if the proposed site is located within the Niagara Escarpment Planning Area
- i) Utility owners
- if there is a utility corridor on the proposed site or within 120 metres of the boundary of the proposed site;
- j) Ministry of Energy, Northern Development and Mines (ENDM)
- For Aggregate Permits: to the provincial mining recorder
- k) Forest companies as directed by the Ministry of Natural Resources and Forestry if the proposed site is on or within 120 metres of Crown land

In addition, applicants for Aggregate Permits may be required to notify any person who uses or occupies Crown land or nearby the proposed site as identified by the Ministry of Natural Resources and Forestry.

Section 2: Application for an amendment to lower the depth of extraction

As per section 0.7 of the regulation, an applicant for an amendment to lower the depth of extraction in an area of a licence or aggregate permit that does not allow extraction below the water table under section 13.1 or 37.2 of the Act, must send the complete application package, including all technical reports and the site plan, to the applicable agencies identified below for comments. It is the applicant's responsibility to determine the appropriate contact office and person prior to notification.

Agencies to which the complete application package must be circulated:

- (a) The local municipality and the upper tier municipality in which the site is located;
- (b) Any Conservation Authority with jurisdiction over the area of the site (excluding wayside permits)
 - to determine if the proposed site is within an area regulated under the *Conservation Authorities Act*;
 - if the proposed site is in a regulated area, to review for potential negative impacts related to flooding, erosion or other natural hazards;
- a) Ministry of Agriculture, Food & Rural Affairs (OMAFRA)
 - if prime agricultural area(s) are not being restored to the same average soil quality and/or
 - where an Agricultural Impact Assessment has been completed
- b) Ministry of the Environment, Conservation and Parks (MECP)
 - To review information where the natural environment report identifies habitat for Endangered and Threatened Species
 - if Level 2 water report is completed,
 - if the proposed site is within 120 metres of a provincial park or conservation reserve;
- c) Fisheries and Oceans Canada
 - if technical reports and information identify the potential for impacts to fish habitat;

- d) Niagara Escarpment Commission (NEC)
 - o if the proposed site is located within the Niagara Escarpment Planning Area

Section 3: Application for an amendment to expand into an adjacent road allowance

As per section 0.7 of the regulation, an applicant for an amendment to expand a licence boundary into an adjacent road allowance under section 13.2 of the Act must send the complete application package, including all technical reports and the site plan to the applicable agencies identified below for comments. It is the applicant's responsibility to determine the appropriate contact office and person prior to notification.

Agencies to which the complete application package must be circulated:

- a) The local municipality and the upper tier municipality in which the site is located;
- b) Any Conservation Authority with jurisdiction over the area of the site (excluding wayside permits)
 - a) to determine if the proposed site is within an area regulated under the *Conservation Authorities Act*;
 - b) if the proposed site is in a regulated area, to review for potential negative impacts related to flooding, erosion or other natural hazards;
- c) Ministry of Agriculture, Food & Rural Affairs (OMAFRA)
 - o if prime agricultural area(s) are not being restored to the same average soil quality and/or
 - o where an Agricultural Impact Assessment has been completed
- d) Ministry of the Environment, Conservation and Parks (MECP)
 - o to review any information in the application related to the *Endangered Species Act*
 - o if Level 2 water report is completed,
 - o if the proposed site is within 120 metres of a provincial park or conservation reserve;

- e) Fisheries and Oceans Canada
 - o if technical reports and information identify the potential for impacts to fish habitat;

- f) Niagara Escarpment Commission (NEC)
 - o if the proposed site is located within the Niagara Escarpment Planning Area

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