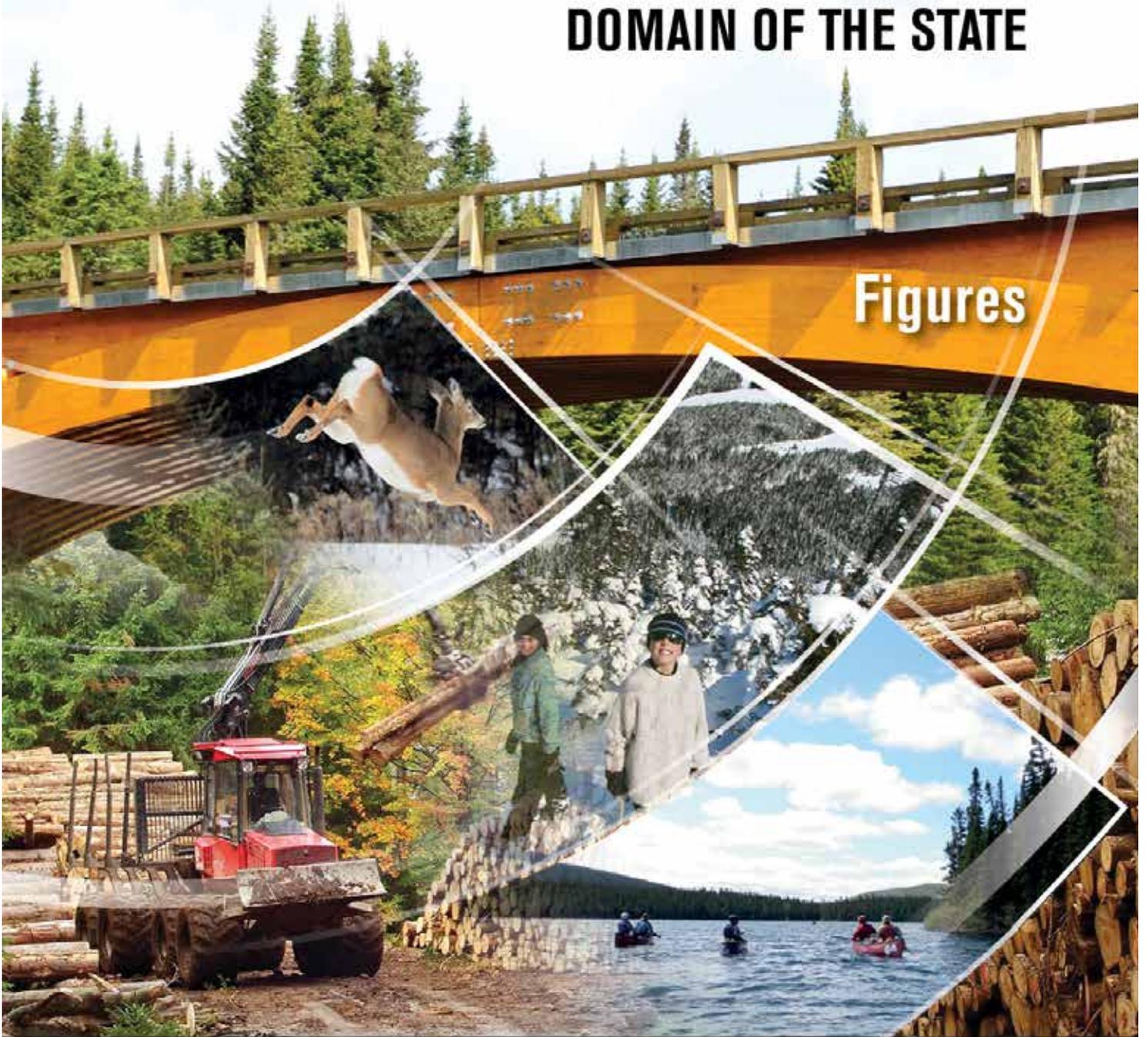


GUIDE TO THE APPLICATION OF THE REGULATION RESPECTING THE SUSTAINABLE DEVELOPMENT OF FORESTS IN THE DOMAIN OF THE STATE

Figures



Note to the reader

The content of the On-line Guide to the application of the regulation respecting the sustainable development of forest in the domain of the State will evolve to incorporate technical and scientific details of certain sections or information necessary for their application. Updates will be listed on the page entitled [Register of Amendments](#).

It is the user's responsibility to use the updated printed document from the online publication available at https://mffp.gouv.qc.ca/wp-content/uploads/FiguresRADF_ang.pdf.

Production

Ministère des Forêts, de la Faune et des Parcs
Direction de la protection des forêts
5700, 4^e Avenue Ouest
Québec (Québec) G1H 6R1
Email: webmestre-radf@mffp.gouv.qc.ca

Reference: Ministère des Forêts, de la Faune et des Parcs. *Guide to the application of the regulation respecting the sustainable development of forest in the domain of the State – Figures* [On line], Gouvernement du Québec. [mffp.gouv.qc.ca/RADF/guide/?lang=en].

List of figures

Figure 2A Upper limit of the bank and overflow above the level of the bankfull discharge	1
Figure 2B Diagram showing a block cutting harvest site	1
Figure 2C Diagram showing a complementary vacation site, an isolated vacation site and a grouped vacation site	2
Figure 2D Peripheral circuit of a concentrated network of hiking trails, an interregional hiking trail and a concentrated network of hiking trails	2
Figure 2E Right-of-way deforestation	3
Figure 2F Thalweg	3
Figure 5 Forest development activities that are prohibited around a trapping camp	4
Figure 7A Strip of woodland around an observatory	4
Figure 7B Strip of woodland around a reception station	5
Figure 7C Strip of woodland around a shelter for users of hiking trails	5
Figure 8A Strip of woodland around a burial site	6
Figure 8B Strip of woodland around a sugar bush operated for acericultural purposes	6
Figure 8C Strip of woodland around a landfill	7
Figure 8D Total cutting of the strip of woodland is prohibited along a road corridor as long as regeneration in the adjacent cutting area is < 3 m	7
Figure 8E Block cutting and partial cutting along a road corridor	8
Figure 8F Total cutting of the strip of woodland is permitted along a road corridor when regeneration in the adjacent cutting area is ≥ 3 m	8
Figure 8G Strip of woodland preserved on each side of a trail	9
Figure 9 Partial cutting in the strip of woodland alongside various places and territories	9
Figure 10 Spacing of hauling trails in the strip of woodland along a road corridor	10
Figure 12A Visual setting around a public beach	10
Figure 13A Encadrement visuel autour d'un poste d'accueil	11
Figure 13B Visual setting around a downhill skiing centre	11
Figure 14A Cuts permitted in a visual setting or heritage cultural landscape	12
Figure 14B Cuts prohibited in a visual setting or heritage cultural landscape	12
Figure 15 Percentage of forest stands of 7 m or more in height to be preserved in an island of 250 ha to 500 ha	13
Figure 16A Proportion of forest stands of 7 m or more in height to be preserved in an outfitting business with exclusive rights, a zone of controlled exploitation or a wildlife reserve located in the bioclimatic areas of the maple bush or fir stand	13
Figure 16B Percentage of forest stands of 7 m or more in height to be preserved in an outfitting operation with exclusive rights, in a controlled zone or in a wildlife preserve situated in the spruce-moss forest bioclimatic domain	14
Figure 19 Strip of woodland on either side of a Native portage trail	14
Figure 20 Area where forest development activities are prohibited around a campground or group of campgrounds installed on a trapping ground	15
Figure 22 Area where forest development activities are prohibited around a Native gathering or sojourn area	15
Figure 27A Strip of woodland alongside an open peat bog with a pond	16
Figure 27B Strip of woodland alongside a wetland or aquatic environment	16
Figure 28 Partial cutting in a strip of woodland alongside a wetland or aquatic environment	17
Figure 30 Clearing of an opening in the strip of woodland alongside a wetland or aquatic environment in order to carry out mining exploration work	17
Figure 31 Clearing of openings in the strip of woodland alongside a wetland or aquatic environment located near a forest camp	18

Figure 32A Rules governing travel of logging machines in the riparian ecotone and in the strip of woodland alongside a wetland or aquatic environment	18
Figure 32B Rules governing travel of logging machines in the riparian ecotone and in the strip of woodland alongside a wetland or aquatic environment	19
Figure 34A Rules governing the travel of logging machines alongside a wetland or aquatic environment	19
Figure 34B Rules governing the travel of logging machines alongside a wetland or aquatic environment	20
Figure 35 Rules governing the digging of a drainage ditch or network of silvicultural drainage ditches	20
Figure 36 Rules governing the digging of a drainage ditch or network of silvicultural drainage ditches	21
Figure 38 Rules governing the washing of logging machines	21
Figure 45A Limitation of rutting in felling and hauling trails	22
Figure 45B Measuring rut depth	22
Figure 45C Measuring rut depth on slope	23
Figure 46 Branches and crowns left on the felling site to prevent long-term loss of soil productivity	23
Figure 50A Rules governing forest development activities in the strip of woodland alongside a wetland or aquatic environment located in a white-tailed deer yard	24
Figure 50B Rules governing forest development activities in the strip of woodland alongside a wetland or aquatic environment located in a white-tailed deer yard	24
Figure 52 Strips of woodland connecting a white-tailed deer yard to the residual forest or separating two areas of total cutting in softwood and softwood-dominant mixed stands within a white-tailed deer yard	25
Figure 54 Rules governing forest development activities in heronries	25
Figure 55 Rules governing forest development activities alongside a salmon river	26
Figure 56 Rules governing forest development activities alongside a bear den	26
Figure 57 Rules governing forest development activities alongside a salt lick	27
Figure 58 Rules governing forest development activities in a white-tailed deer yard	27
Figure 59 Rules governing forest development activities in the application zone of the Plan de rétablissement du caribou forestier, ecotype forestier	28
Figure 60 Rules governing the location, closure and restoration to production of a road in the application zone of the Plan de rétablissement du caribou des bois, ecotype forestier	28
Figure 67A Rules governing the construction or improvement of a road located near a wetland or aquatic environment	29
Figure 67B Rules governing the construction or improvement of a road located near a lake or watercourse, on soil that is impervious hardpan	29
Figure 70 Rules governing the construction or improvement of a road located in an open peat bog	30
Figure 71 Width of right-of-way by class of road	30
Figure 72 Removal of soil, organic debris and materials from the right-of-way of a road	31
Figure 74 Installation of a drainage channel to allow water to flow from one side of the road to the other	31
Figure 75 Evacuation of runoff water from the roadway surface	32
Figure 76A Diversion of water flowing at the foot of the embankment of a road	32
Figure 76B Distance between diversions of water flowing at the foot of the embankment of a road	33
Figure 76C Stabilization of the embankment of a road with a slope greater than 9%	33
Figure 77 Blocking and diversion of water flowing in a felling or hauling trail	34
Figure 79 Characteristics of drainage channel installation	34
Figure 81 Work to be carried out for permanent closure of a road	35
Figure 82 Preserving the natural drainage of the soil on a winter road	35

Figure 83 Blocking and diversion of runoff water flowing on the surface of a winter road 36

Figure 85 Control of motor vehicle access to the main building of a sugar bush 36

Figure 89 Distance between a spawning ground and a bridge, culvert or removable structure. 37

Figure 95A Stabilization of the embankment of a road that crosses a watercourse. 37

Figure 95B Stabilization of embankments located 20 m or less from a watercourse. 38

Figure 98 Clearance required for boats 38

Figure 99 Backfilling a duct 39

Figure 100A End of a conduit or arch extending from the base of the embankment 39

Figure 100B Minimum thickness of fill above a conduit or arch, based on its diameter or span 40

Figure 102A Culvert with parallel conduits of different diameters 40

Figure 102B Distance between the conduits of a culvert with parallel conduits 41

Figure 102C Culvert with parallel conduits and an upstream debris guide. 41

Figure 104A Burial of a culvert conduit in the bed of a watercourse where it is not necessary to ensure the free flow of fish 42

Figure 104B Maximum reduction of the width of a watercourse where it is not necessary to ensure the free flow of fish. 42

Figure 108A Characteristics of a bridge installation in relation to the upper limit of the banks 43

Figure 108B Minimum length of the arch compared to the length of the thalweg disturbed by the work. 43

Figure 108C Characteristics of an arch installation in relation to the upper limit of the banks 44

Figure 108D Characteristics of the foundations of an arch. 44

Figure 111A Supports for a removable structure outside the upper limit of the banks 45

Figure 111B Removable structure composed of one or more conduits of at least 600 mm 45

Figure 111C Removable structure composed of compacted snow or frozen water 46

Figure 111D Ice bridge 46

Figure 112 Timeframe for removing any of the removable structures described in the second paragraph of section 111. 47

Figure 115A Road sign indicating permanent closure of a road. 47

Figure 115B Road sign indicating permanent closure of a road. 48

Figure 115C Road sign indicating temporary closure of a road 48

Figure 117 Road signs near a bridge 49

Figure 119 Distance between a sandpit and a wetland or aquatic environment 49

Figure 120 Restoration of a sandpit before expiry of the lease to mine surface mineral substances 50

Figure 121 Distance between a sandpit and different places or territories. 50

Figure 123 Operation of a sandpit above the level of groundwater 51

Figure 124A Distance between a piling area and a road corridor 51

Figure 124B Distance between a piling area and a wetland or aquatic environment 52

Figure 124C Diversion of runoff water from a piling area 52

Figure 125 Limit on the size of piling areas along roads 53

Figure 126 Windrowing or spreading of logging residues during total cutting of whole trees. 53

Figure 128 Distance between the area of a forest camp and a wetland or aquatic environment. 54

Figure 129 Restoration of the area of a forest camp after use 54

Figure 130 Distance between a sugar bush building or motorized equipment necessary for the cultivation and operation of a sugar bush, and a wetland or aquatic environment 55

Figure 131 Percentage of residual forest of 7 m or more in height to be maintained in a territorial reference unit 55

Figure 136 Strip of woodland between two total cutting areas other than block cutting56

Figure 139 Size and composition of the residual forest at a block cutting harvest site56

Figure 144 Forest operations carried out using an approach including aggregated cut blocks and timber stands57

Figure 147 Maximum stump height57

Figure Schedule 9A Placement of thresholds used to measure the slope of a watercourse58

Figure Schedule 9B Measuring the slope of a watercourse58

Figure Schedule 9C Burial of a conduit following the slope of the watercourse59

Figure Schedule 9D Burial depth for a conduit59

Figure Schedule 10A Location of outlets in a conduit60

Figure Schedule 10B Characteristics of outlets in a conduit60

Figure Schedule 10C Burial depth of a conduit equipped with outlets compared to the thalweg and characteristics of the energy dissipation basin61

Figure Schedule 10D Installation slope of a conduit equipped with outlets.61

Figure Schedule 11B Structure of a wooden culvert62

Figure Schedule 11C Conditions for installation of a wooden culvert62

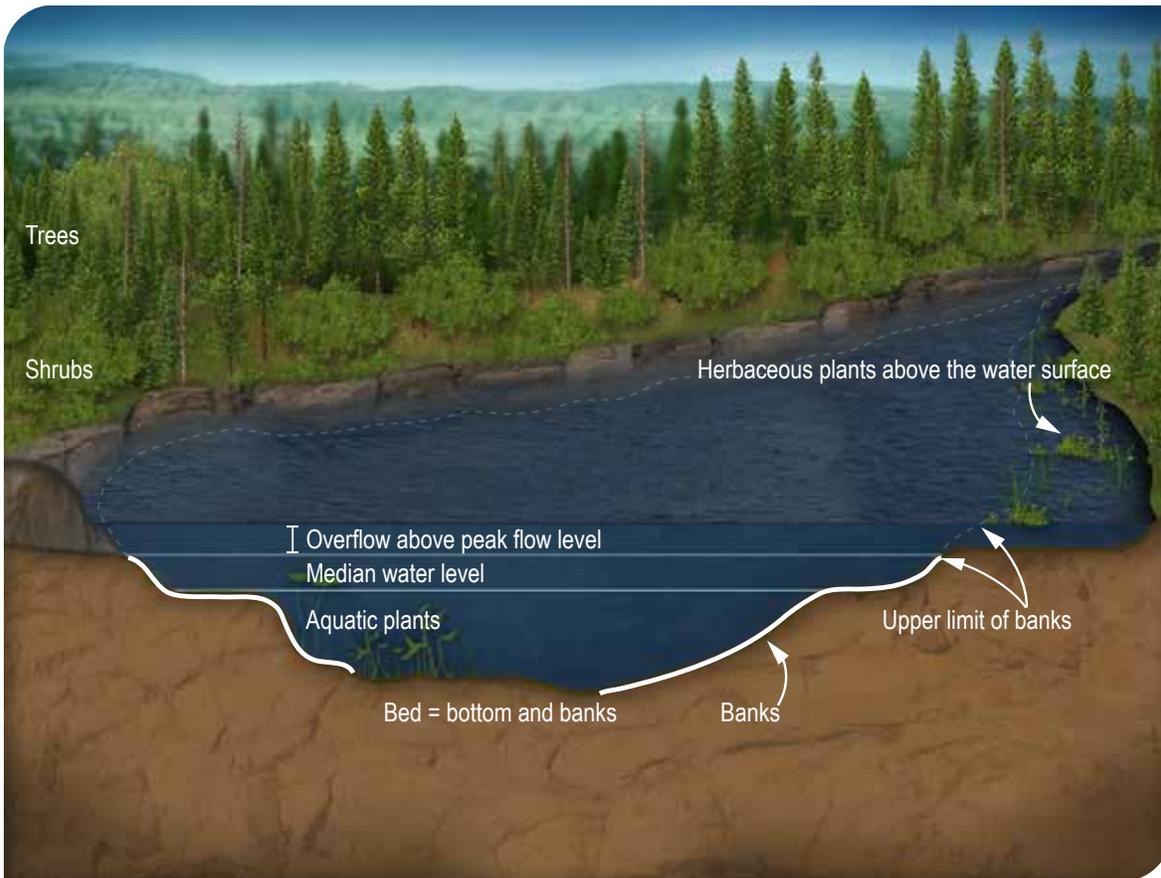


Figure 2A Upper limit of the bank and overflow above the level of the bankfull discharge



Figure 2B Diagram showing a block cutting harvest site

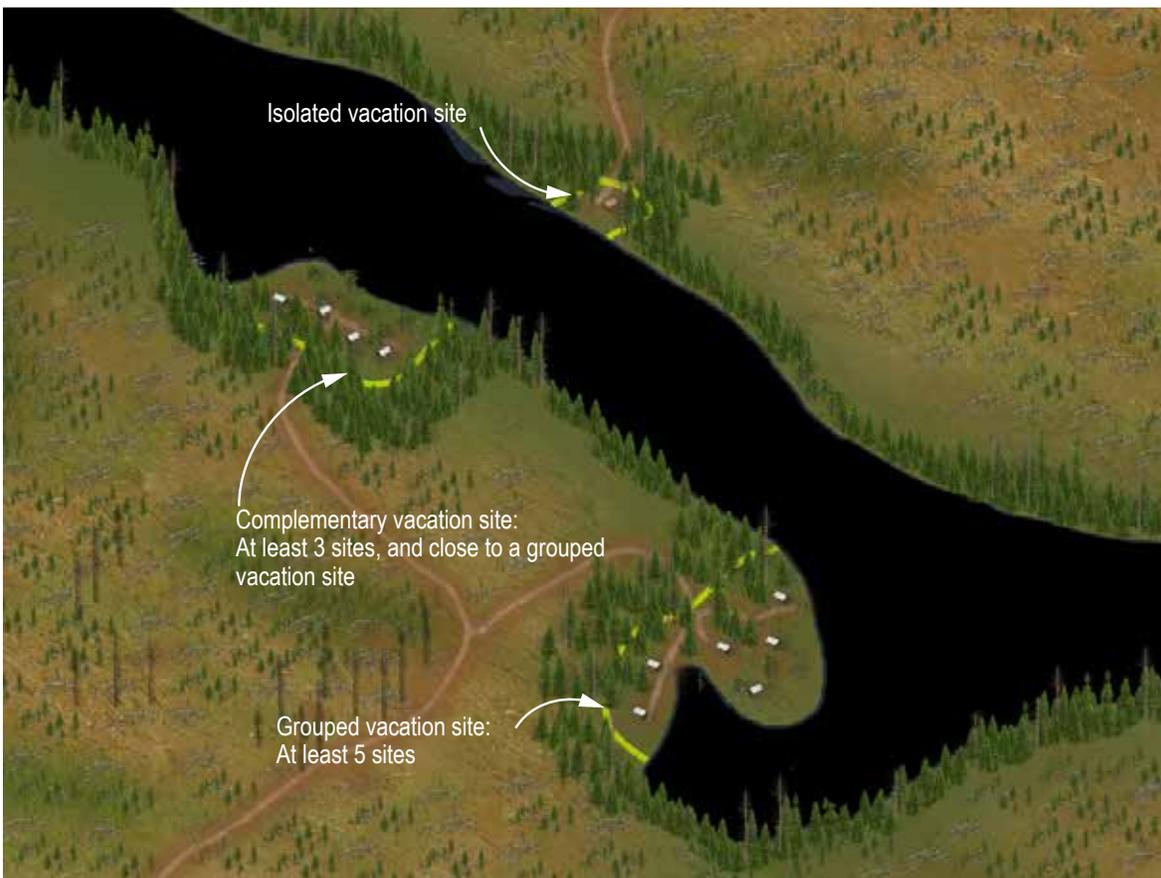


Figure 2C Diagram showing a complementary vacation site, an isolated vacation site and a grouped vacation site

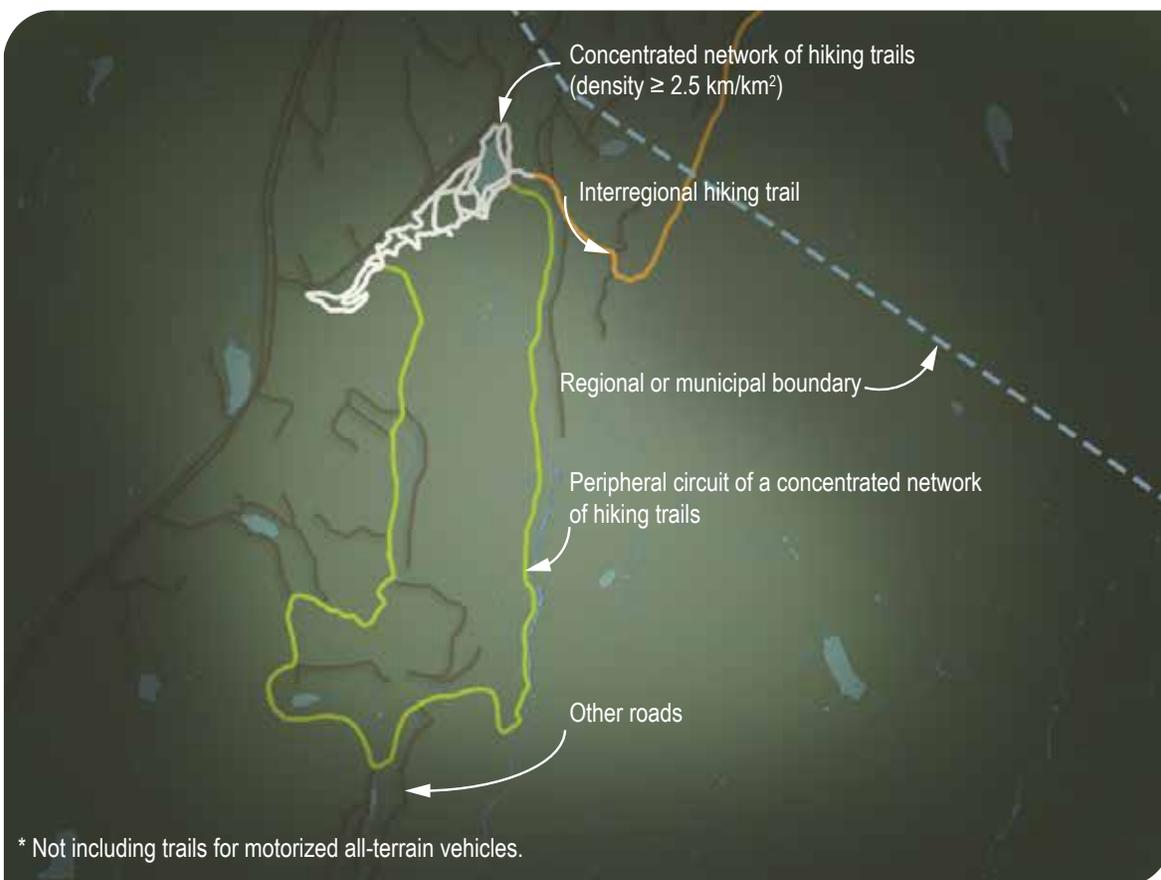


Figure 2D Peripheral circuit of a concentrated network of hiking trails, an interregional hiking trail and a concentrated network of hiking trails

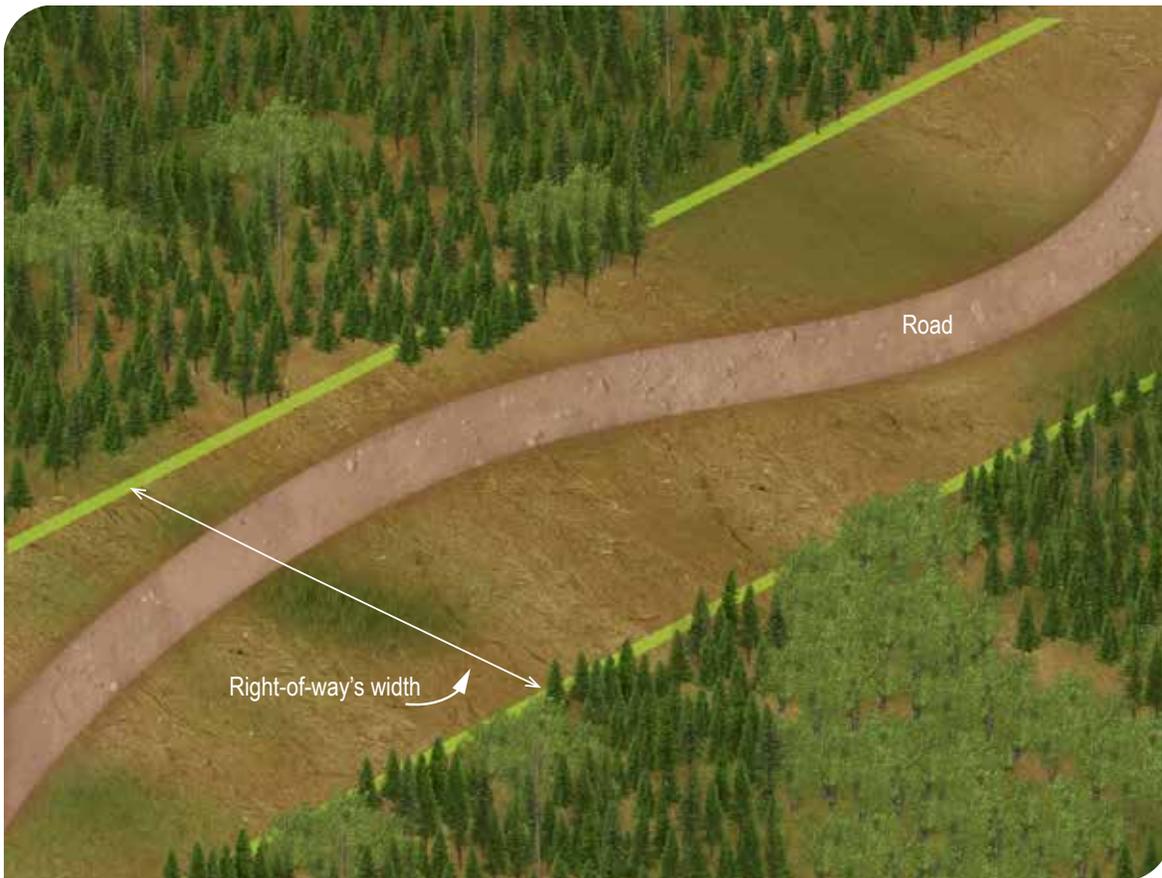


Figure 2E Right-of-way deforestation

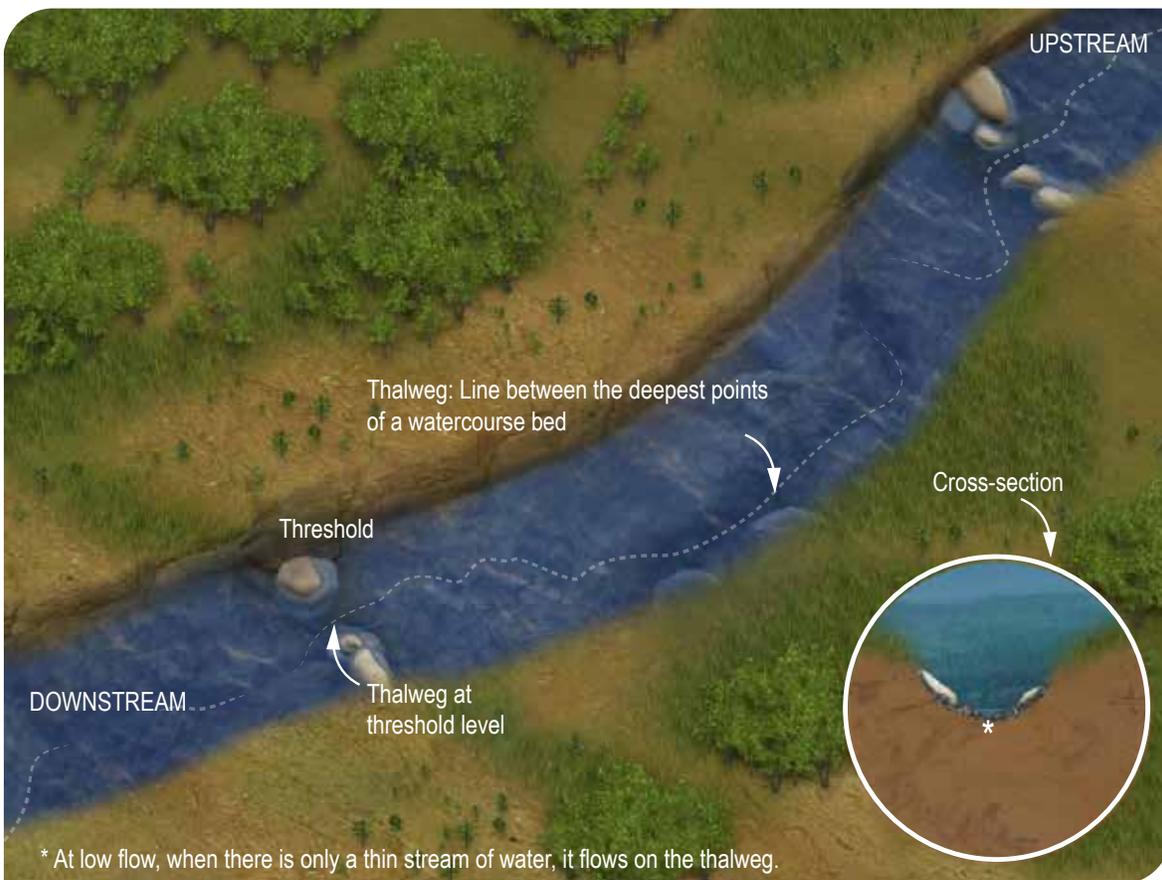


Figure 2F Thalweg



Figure 5 Forest development activities that are prohibited around a trapping camp

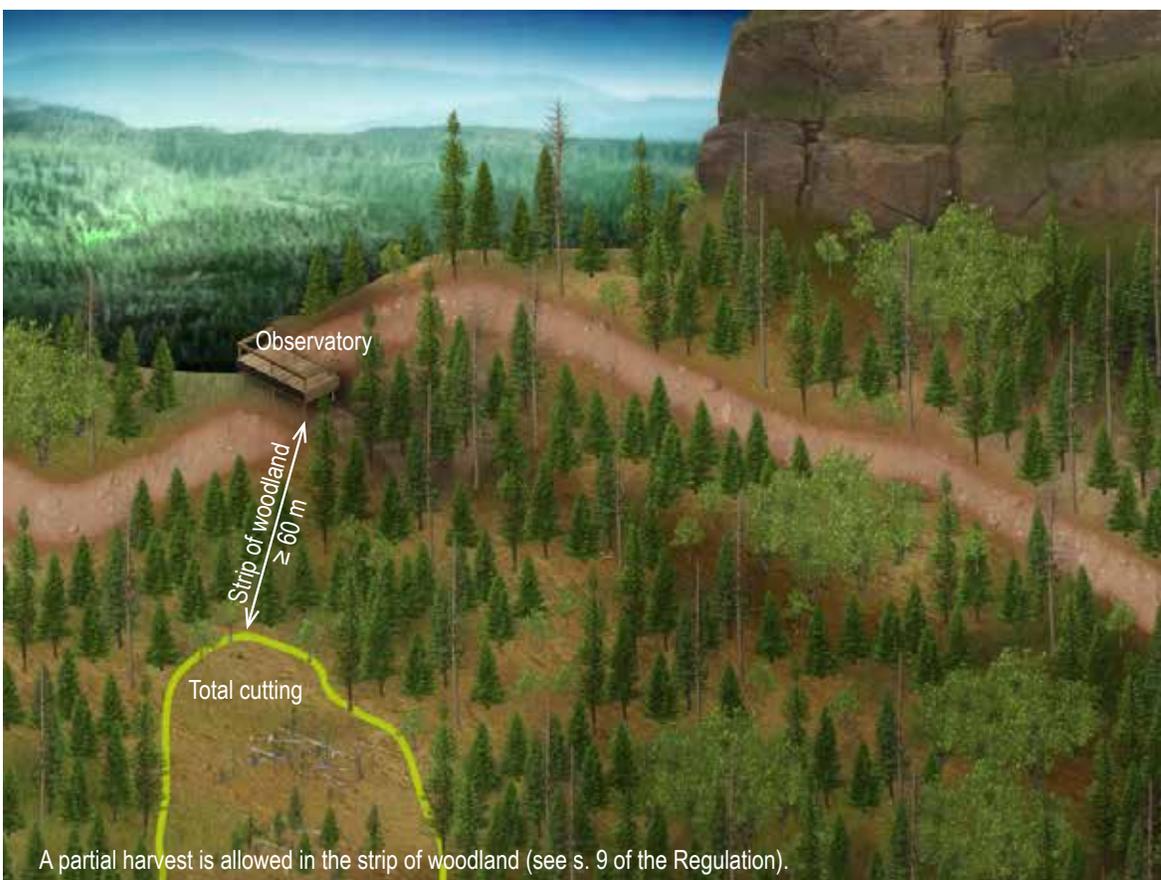


Figure 7A Strip of woodland around an observatory



Figure 7B Strip of woodland around a reception station



Figure 7C Strip of woodland around a shelter for users of hiking trails

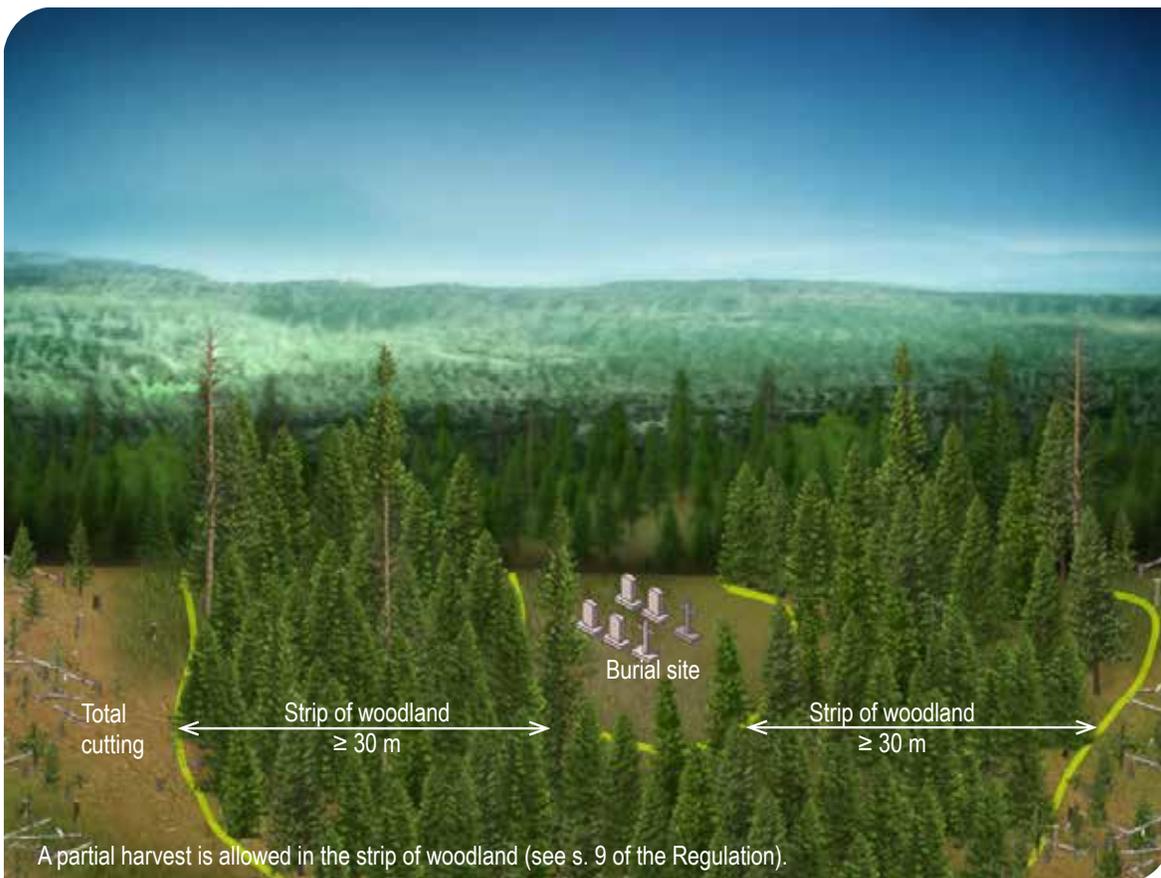


Figure 8A Strip of woodland around a burial site

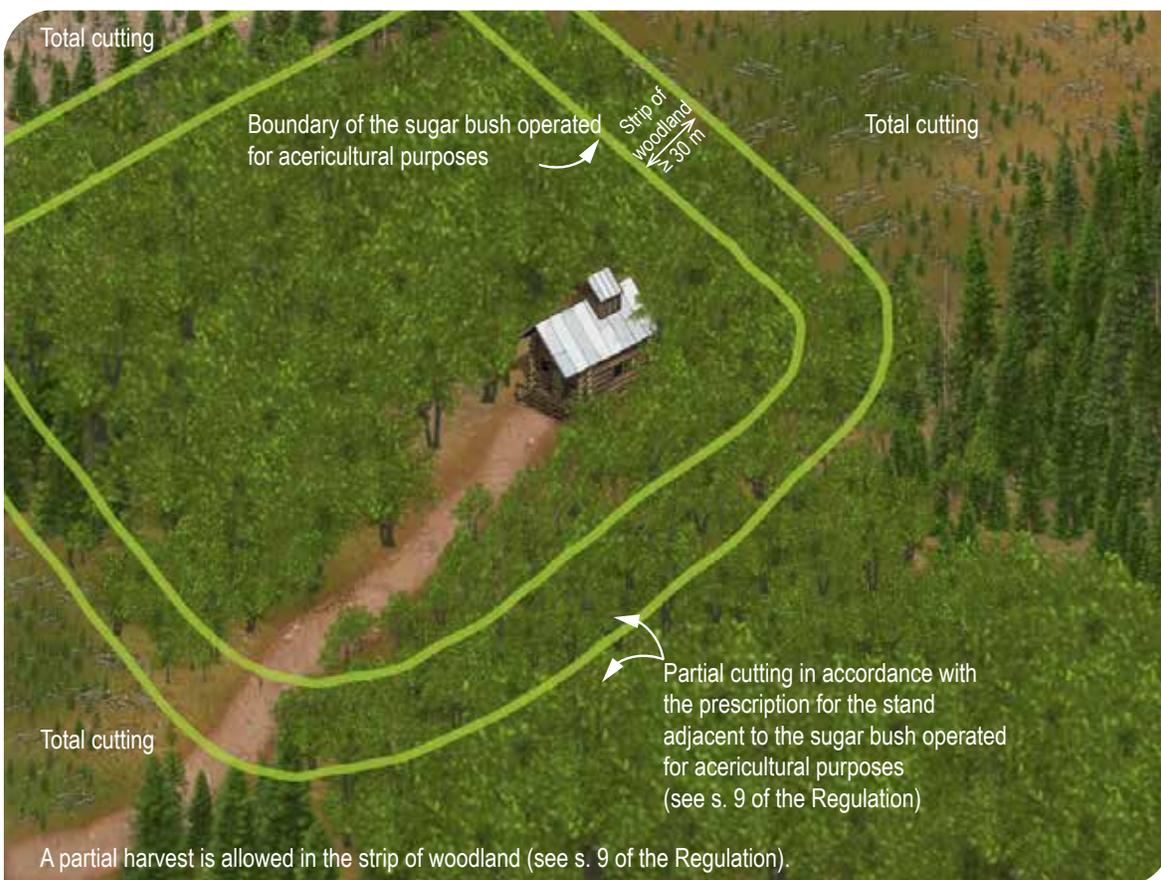


Figure 8B Strip of woodland around a sugar bush operated for acericultural purposes

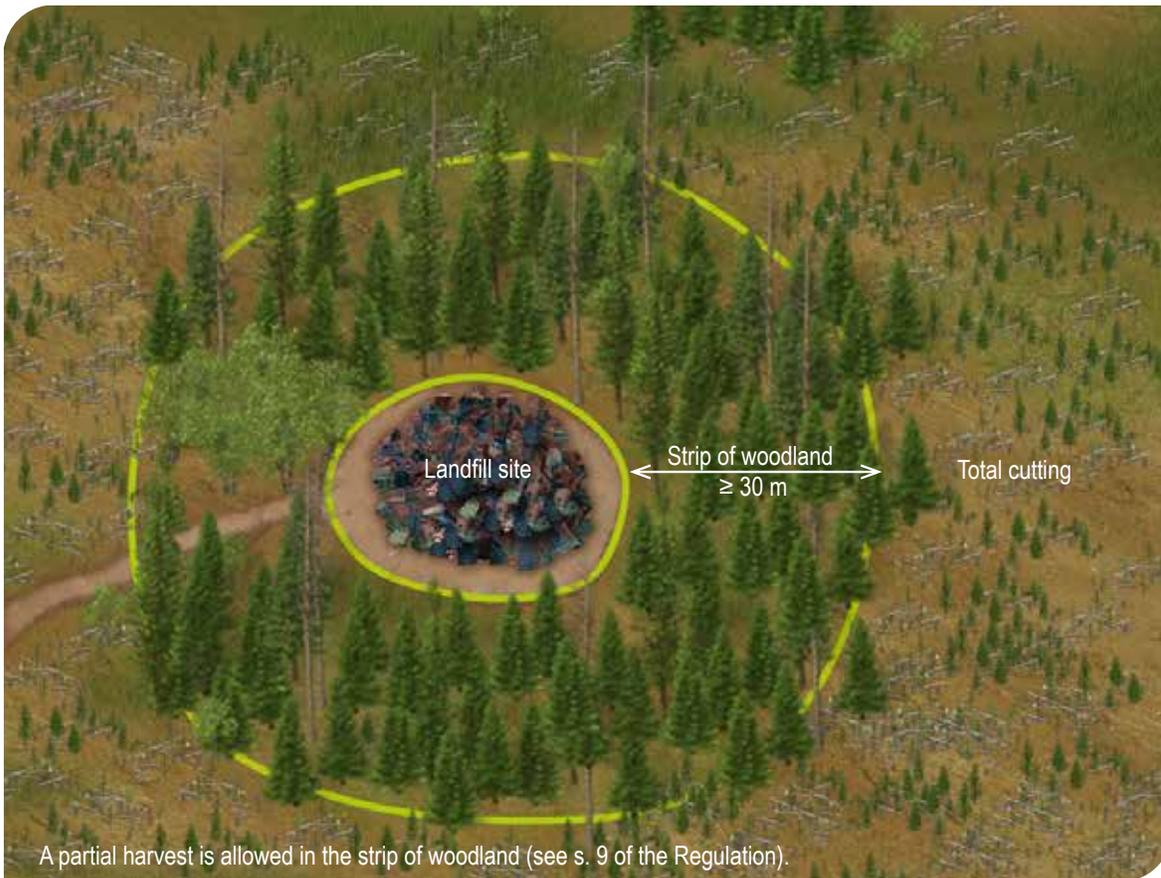


Figure 8C Strip of woodland around a landfill

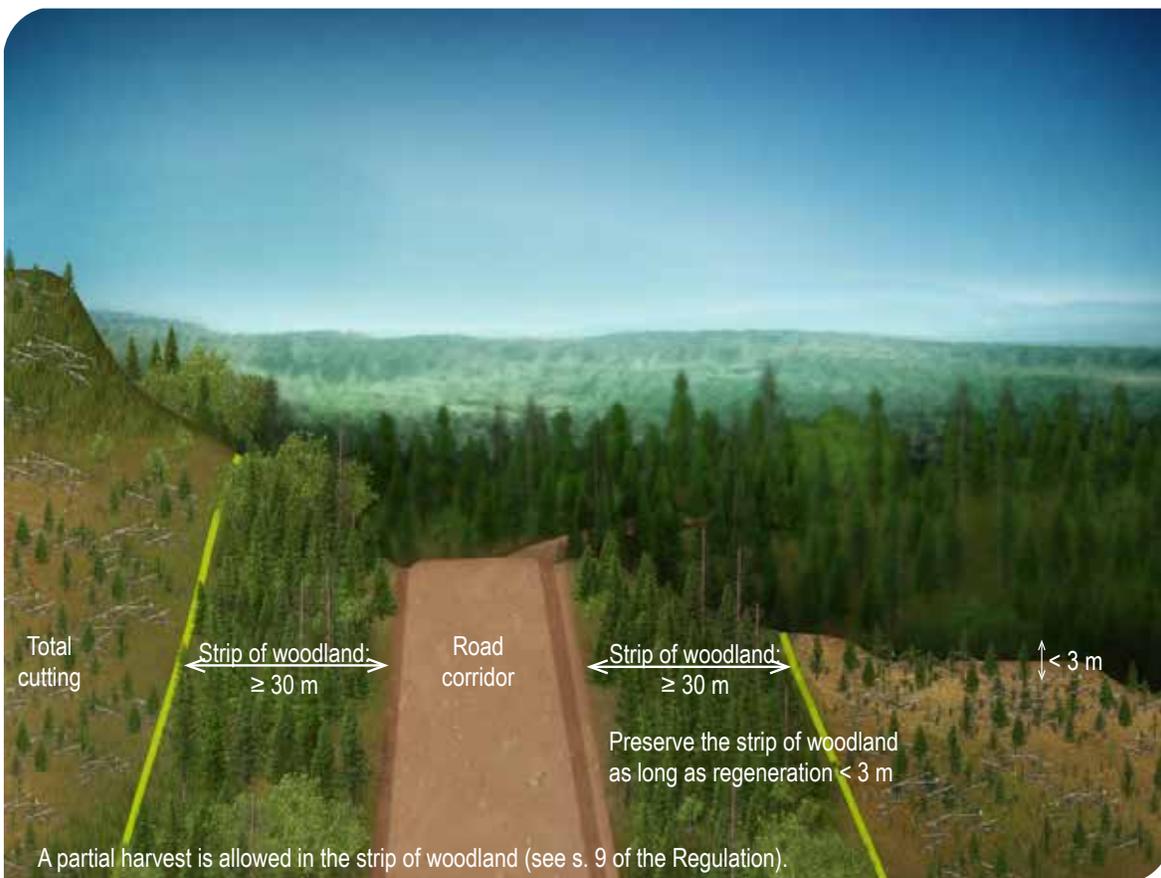


Figure 8D Total cutting of the strip of woodland is prohibited along a road corridor as long as regeneration in the adjacent cutting area is < 3 m



Figure 8E Block cutting and partial cutting along a road corridor

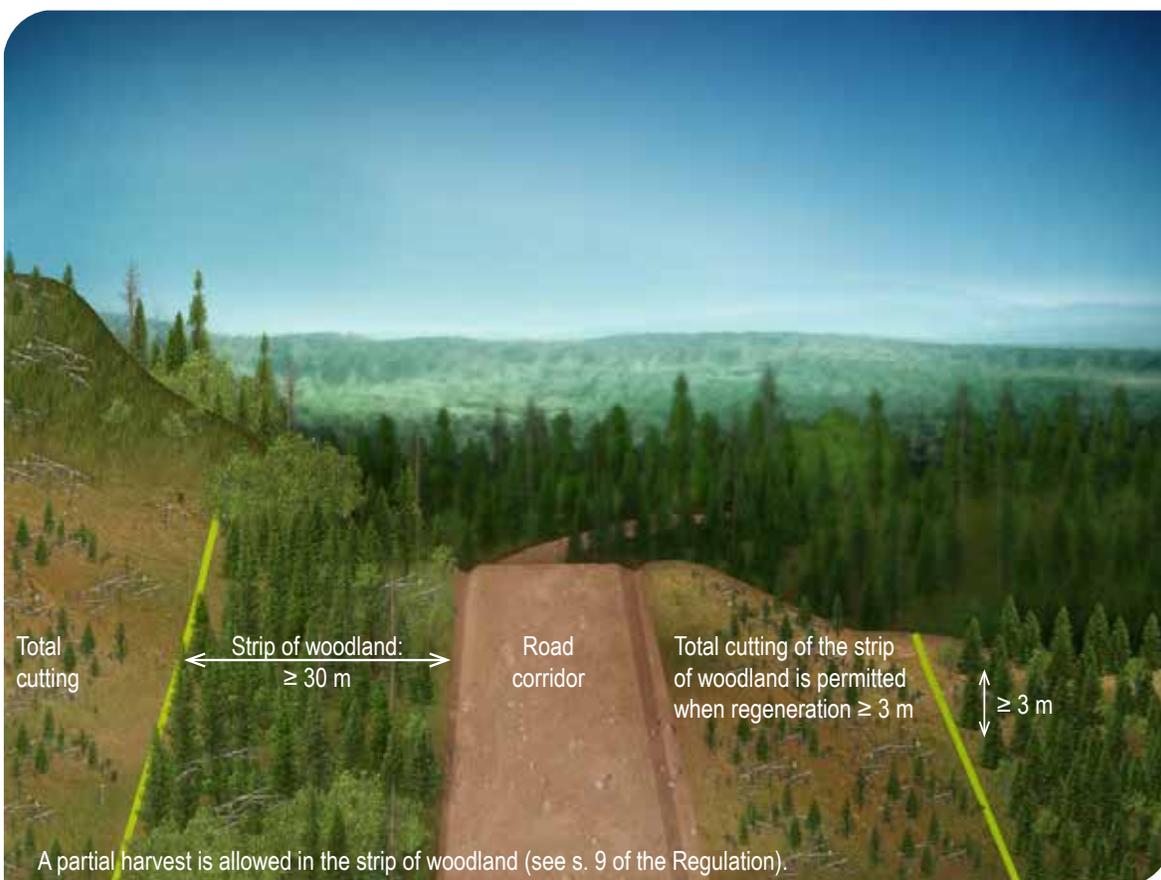


Figure 8F Total cutting of the strip of woodland is permitted along a road corridor when regeneration in the adjacent cutting area is ≥ 3 m



Figure 8G Strip of woodland preserved on each side of a trail

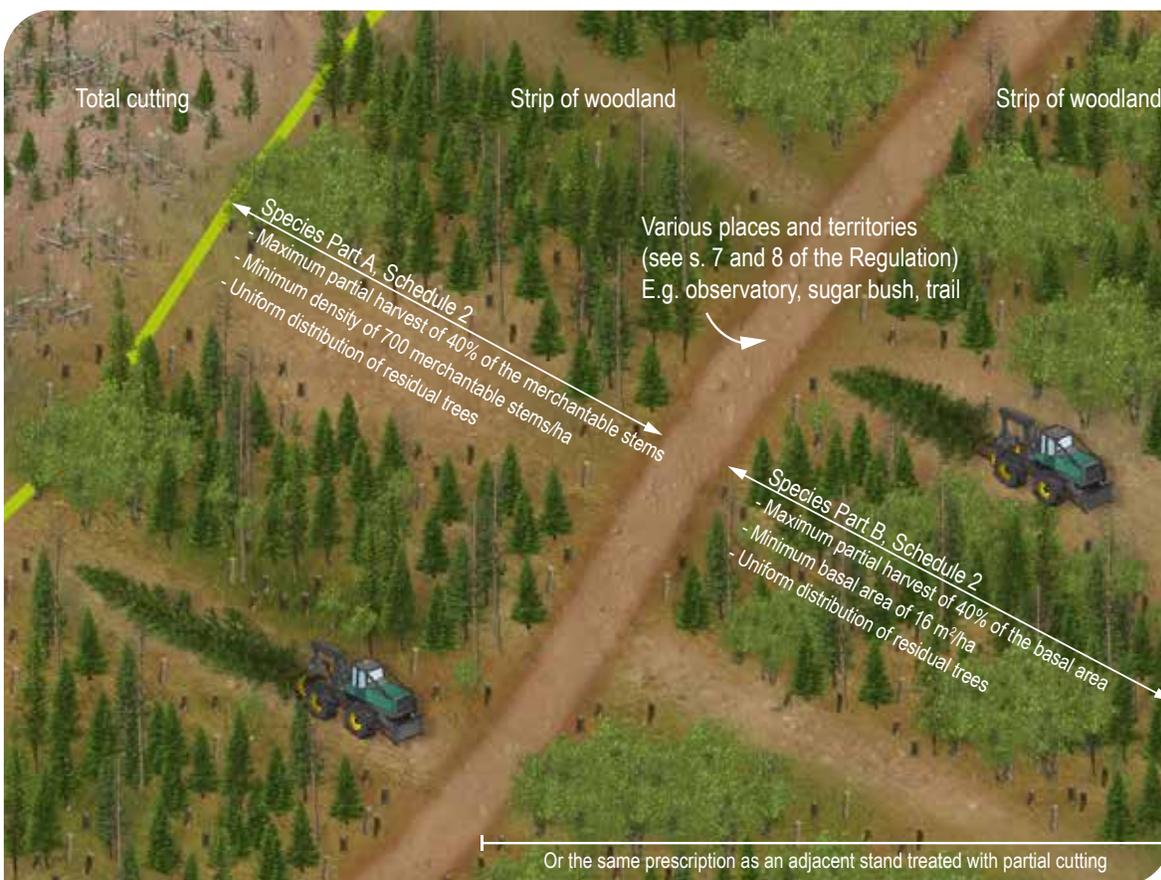


Figure 9 Partial cutting in the strip of woodland alongside various places and territories

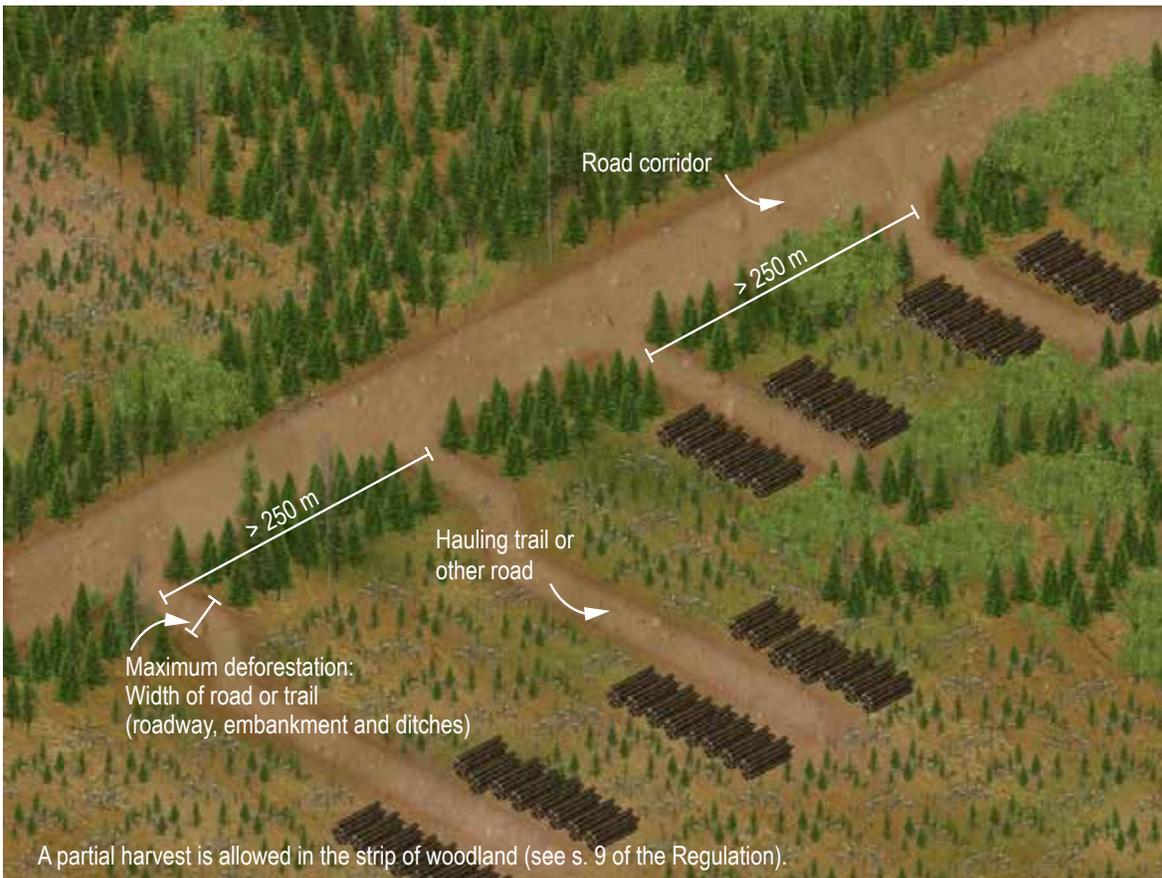


Figure 10 Spacing of hauling trails in the strip of woodland along a road corridor

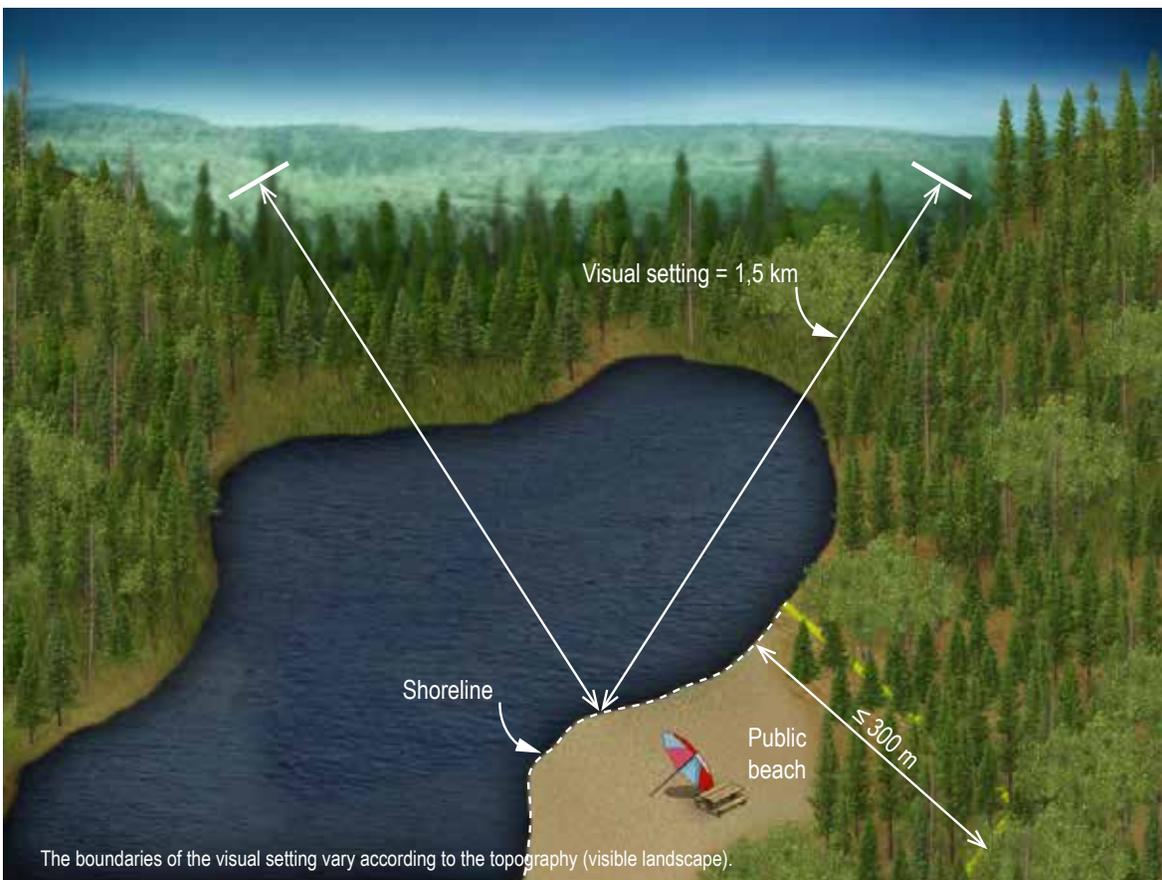


Figure 12A Visual setting around a public beach

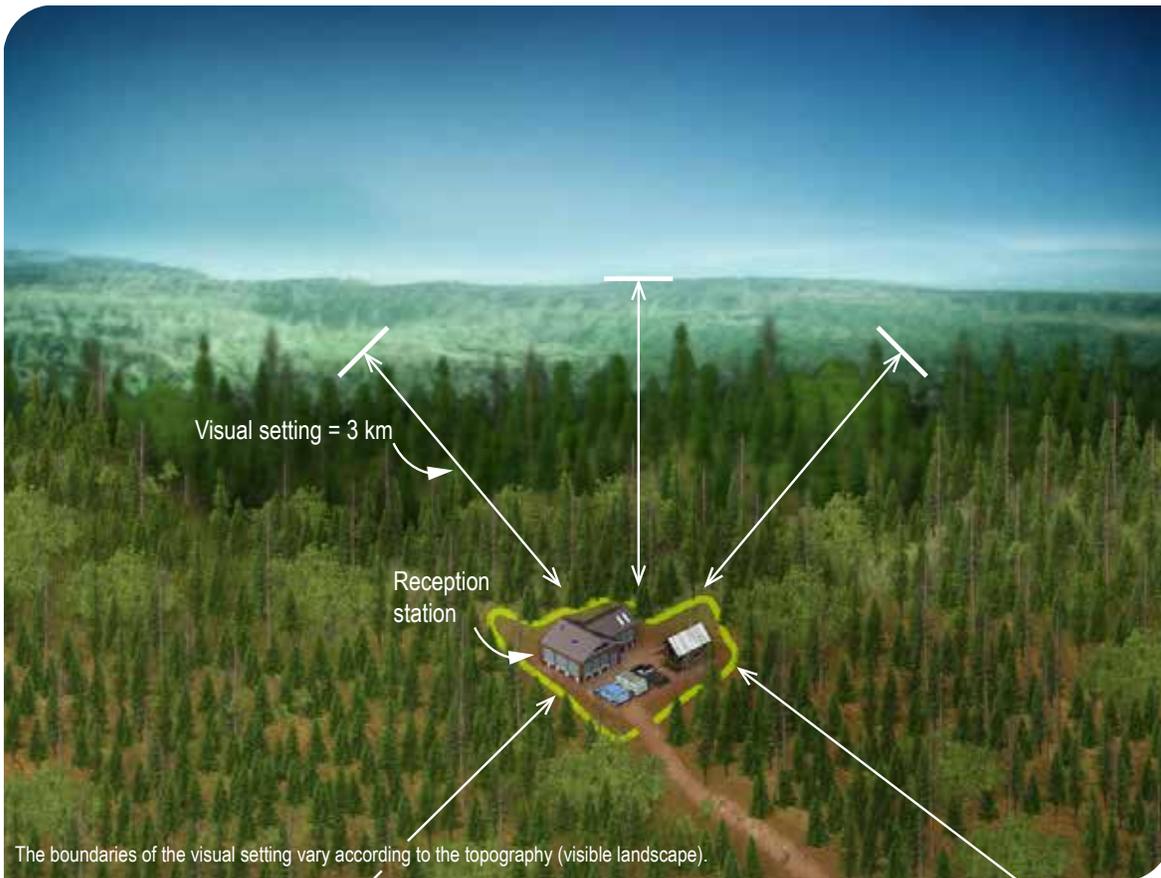


Figure 13A Encadrement visuel autour d'un poste d'accueil



Figure 13B Visual setting around a downhill skiing centre

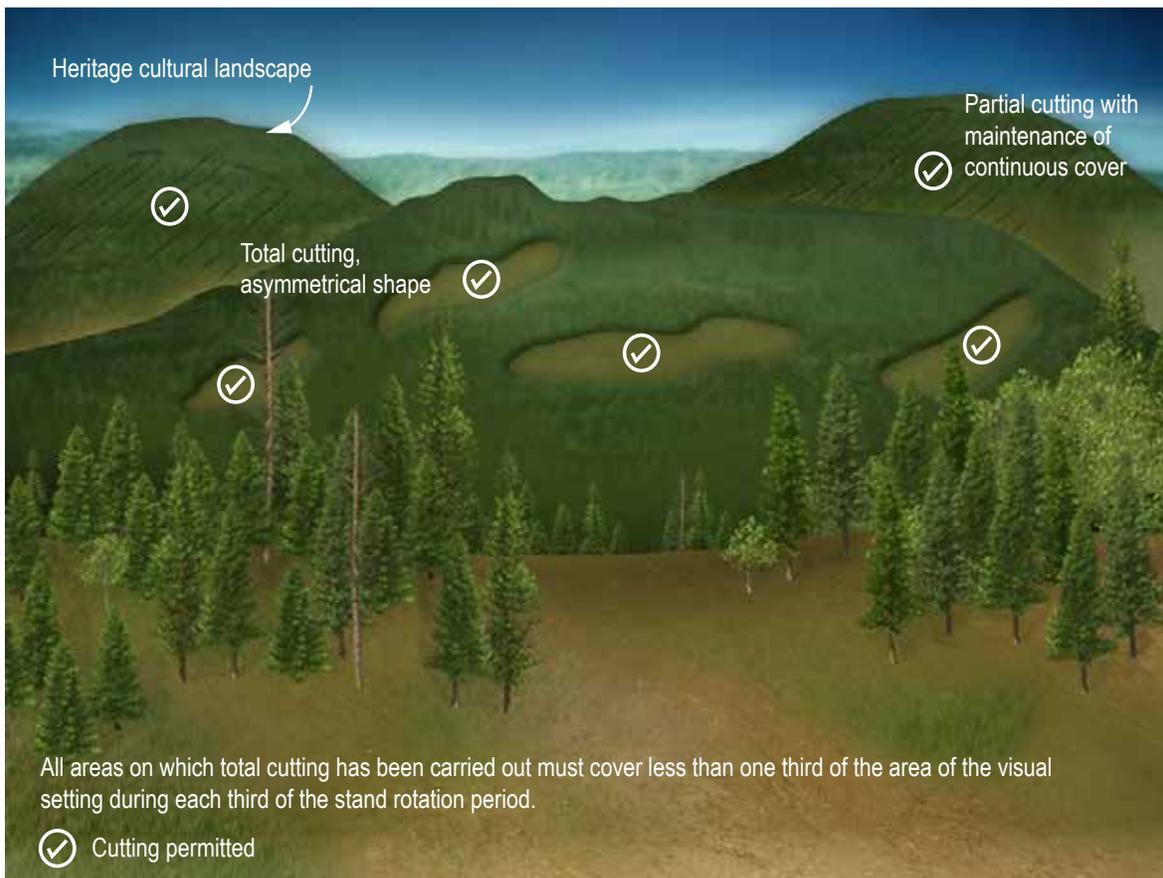


Figure 14A Cuts permitted in a visual setting or heritage cultural landscape

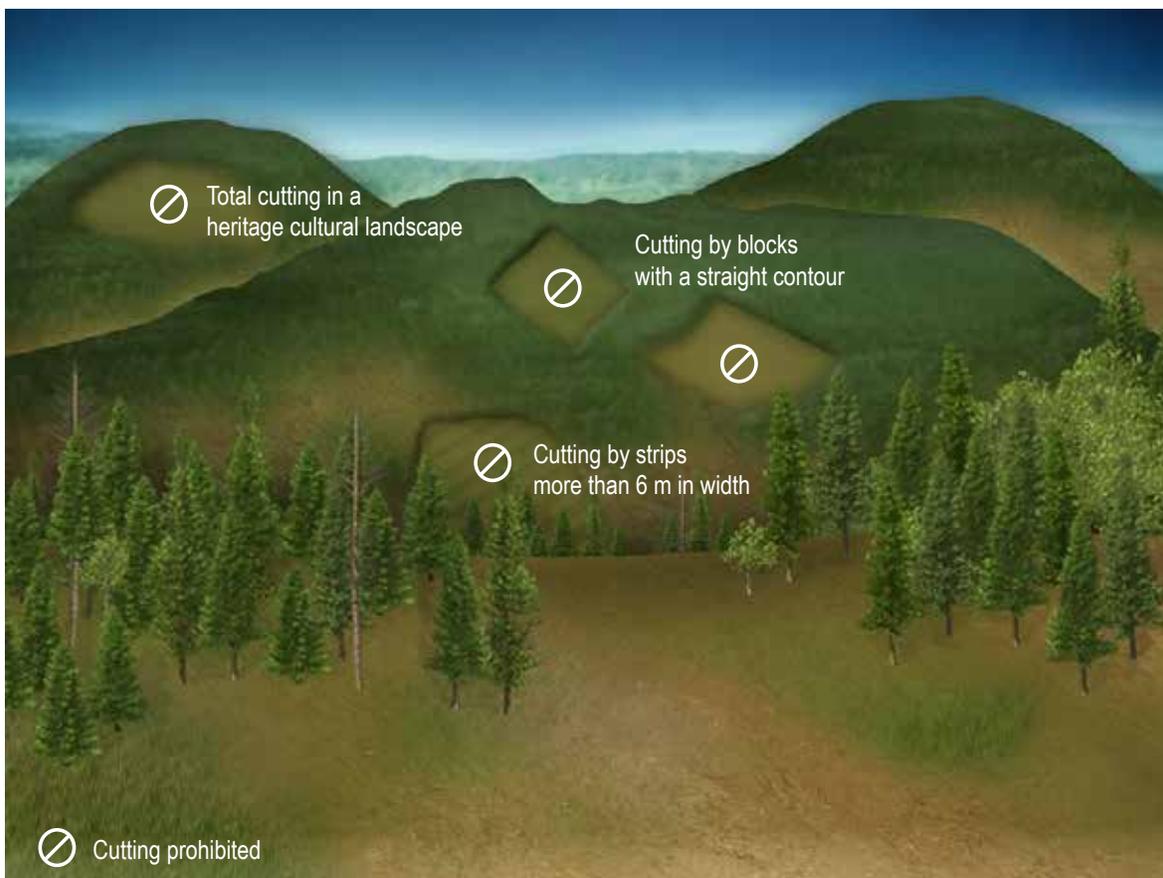


Figure 14B Cuts prohibited in a visual setting or heritage cultural landscape

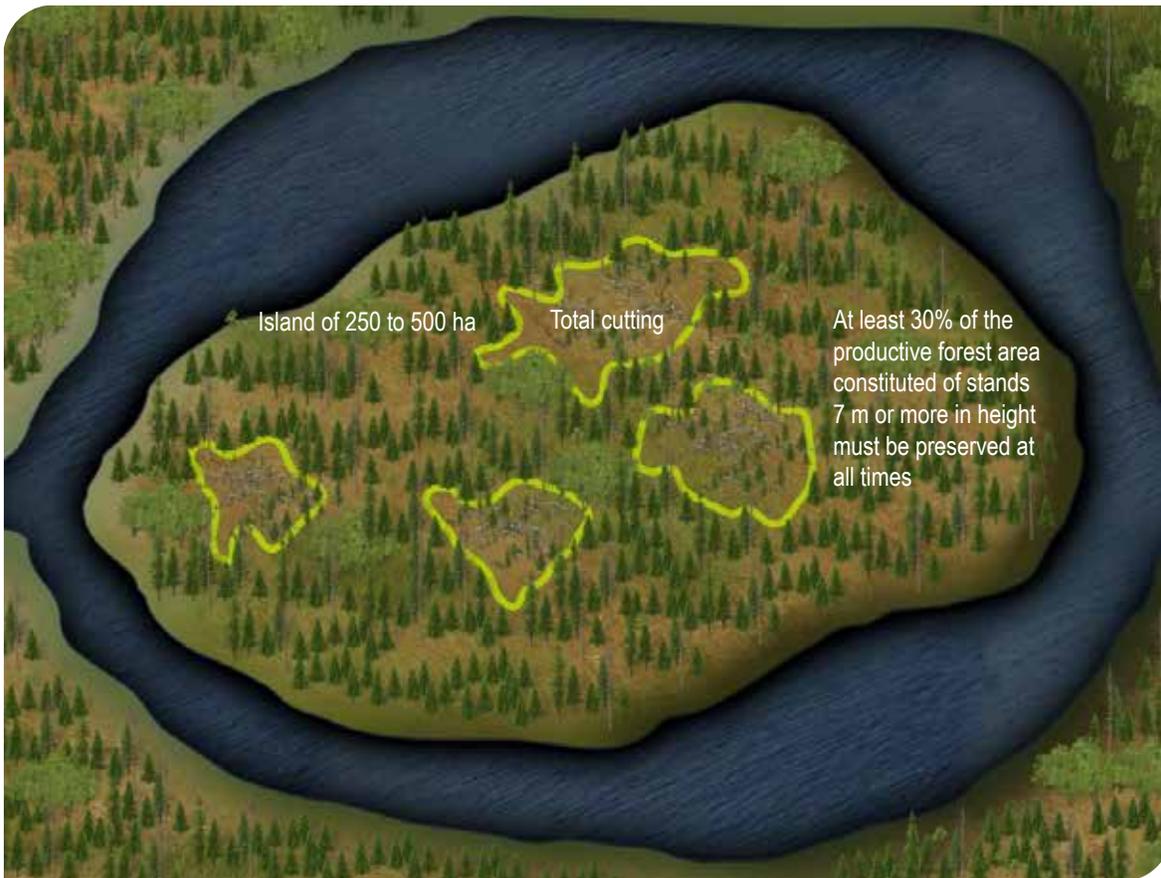


Figure 15 Percentage of forest stands of 7 m or more in height to be preserved in an island of 250 ha to 500 ha



Figure 16A Proportion of forest stands of 7 m or more in height to be preserved in an outfitting business with exclusive rights, a zone of controlled exploitation or a wildlife reserve located in the bioclimatic areas of the maple bush or fir stand



Figure 16B Percentage of forest stands of 7 m or more in height to be preserved in an outfitting operation with exclusive rights, in a controlled zone or in a wildlife preserve situated in the spruce-moss forest bioclimatic domain

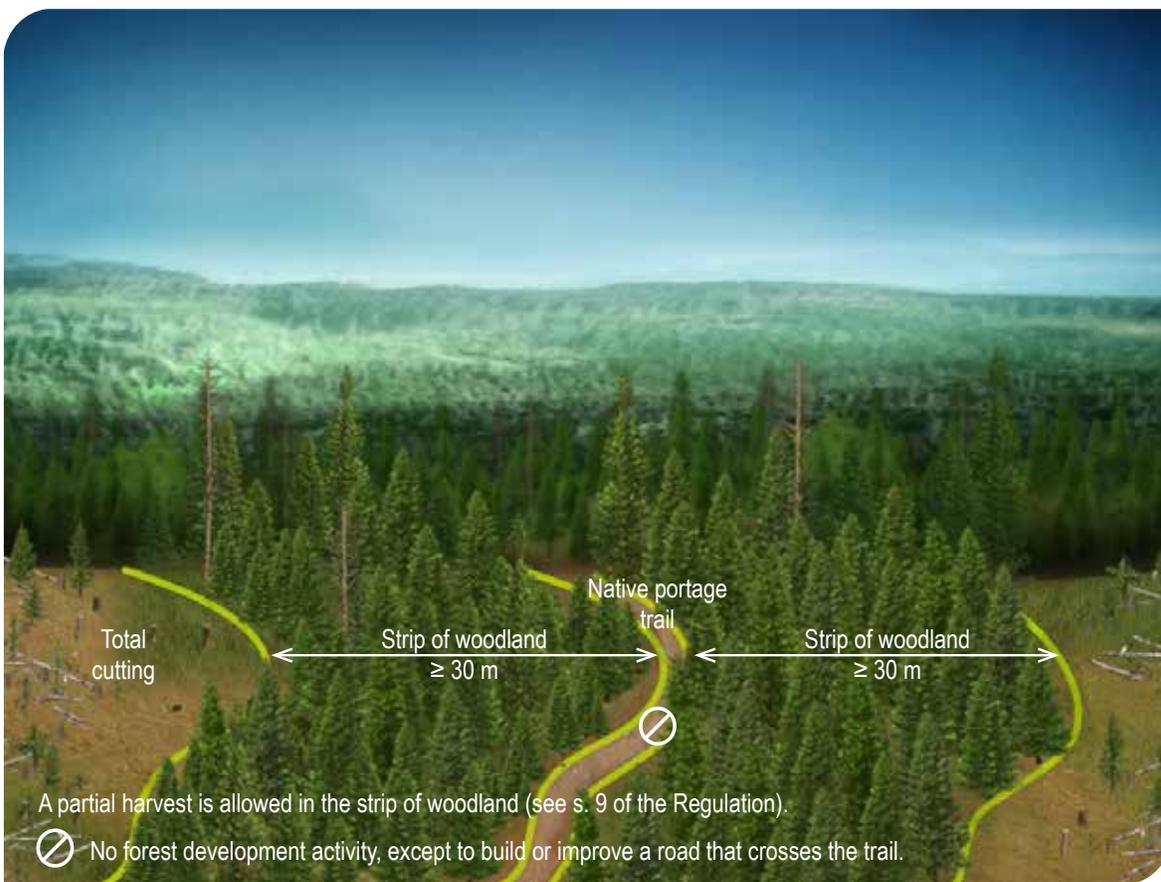


Figure 19 Strip of woodland on either side of a Native portage trail

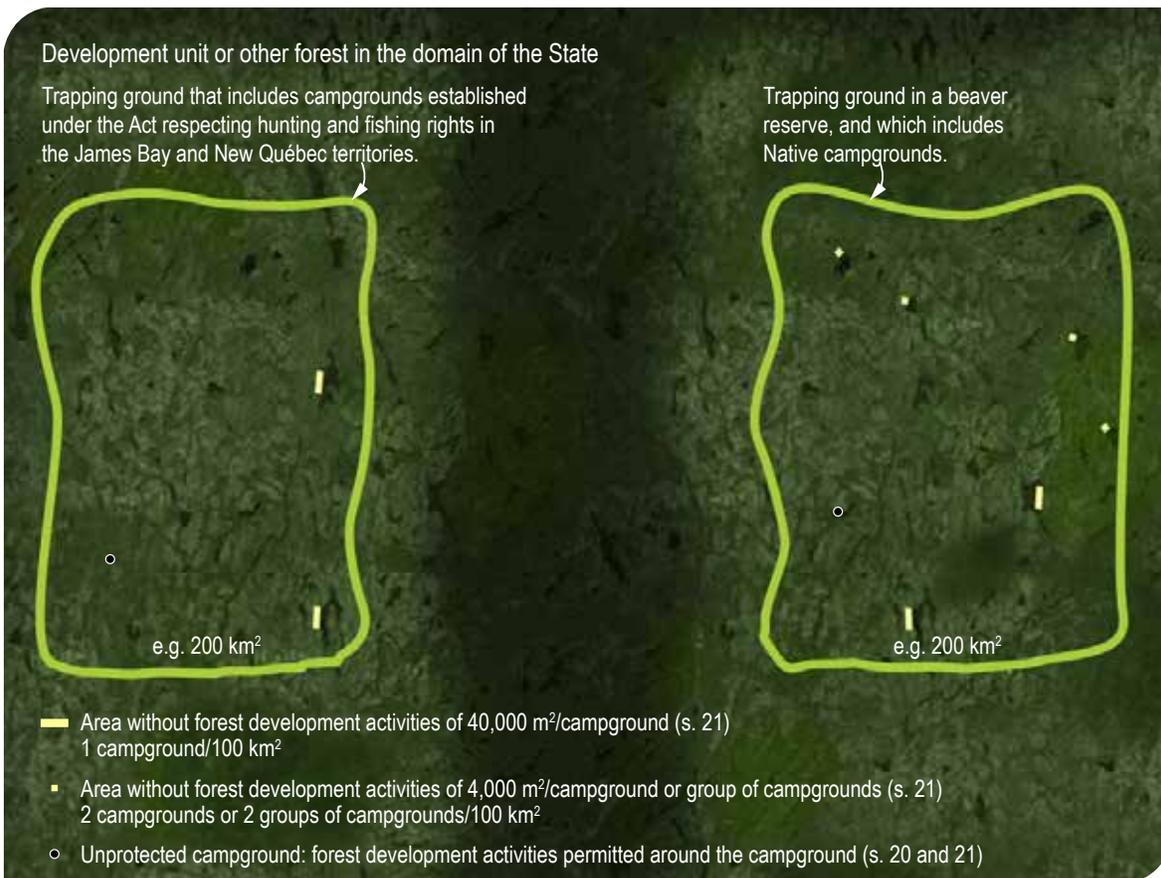


Figure 20 Area where forest development activities are prohibited around a campground or group of campgrounds installed on a trapping ground

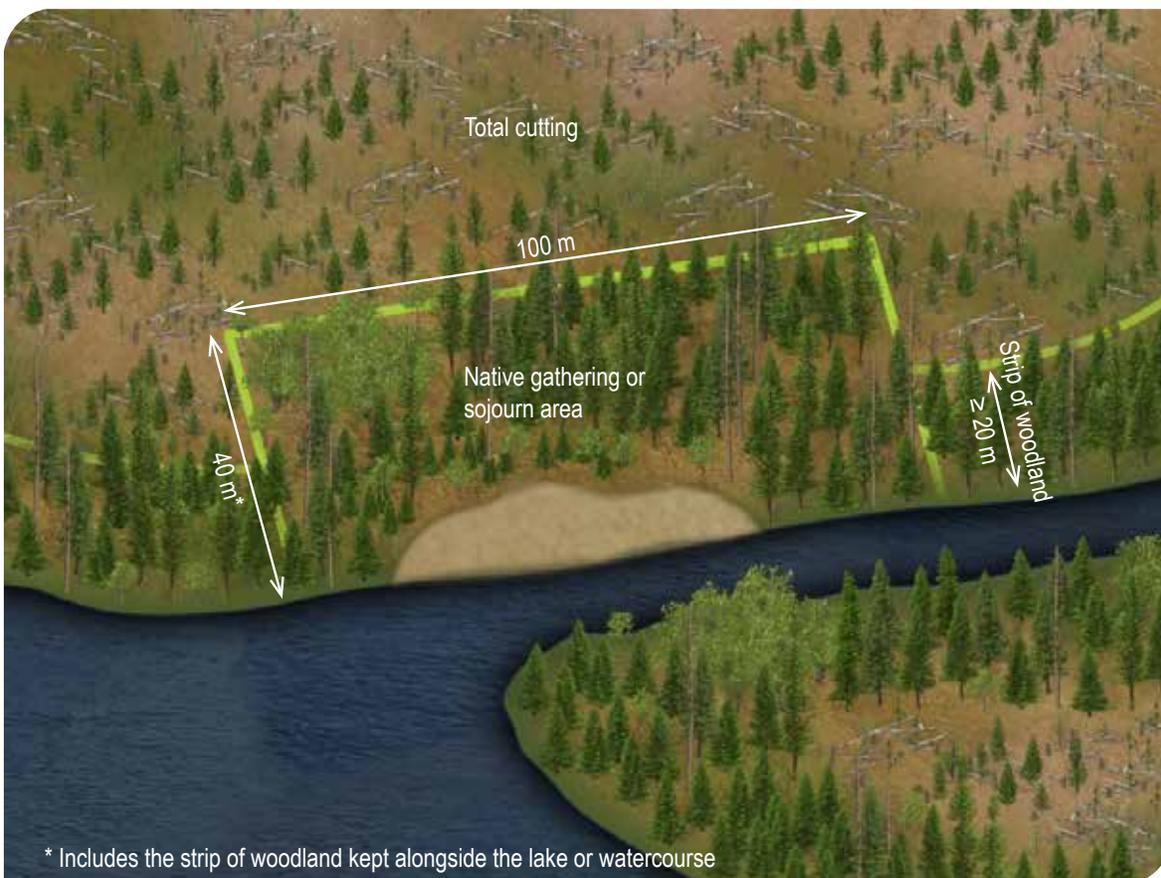


Figure 22 Area where forest development activities are prohibited around a Native gathering or sojourn area

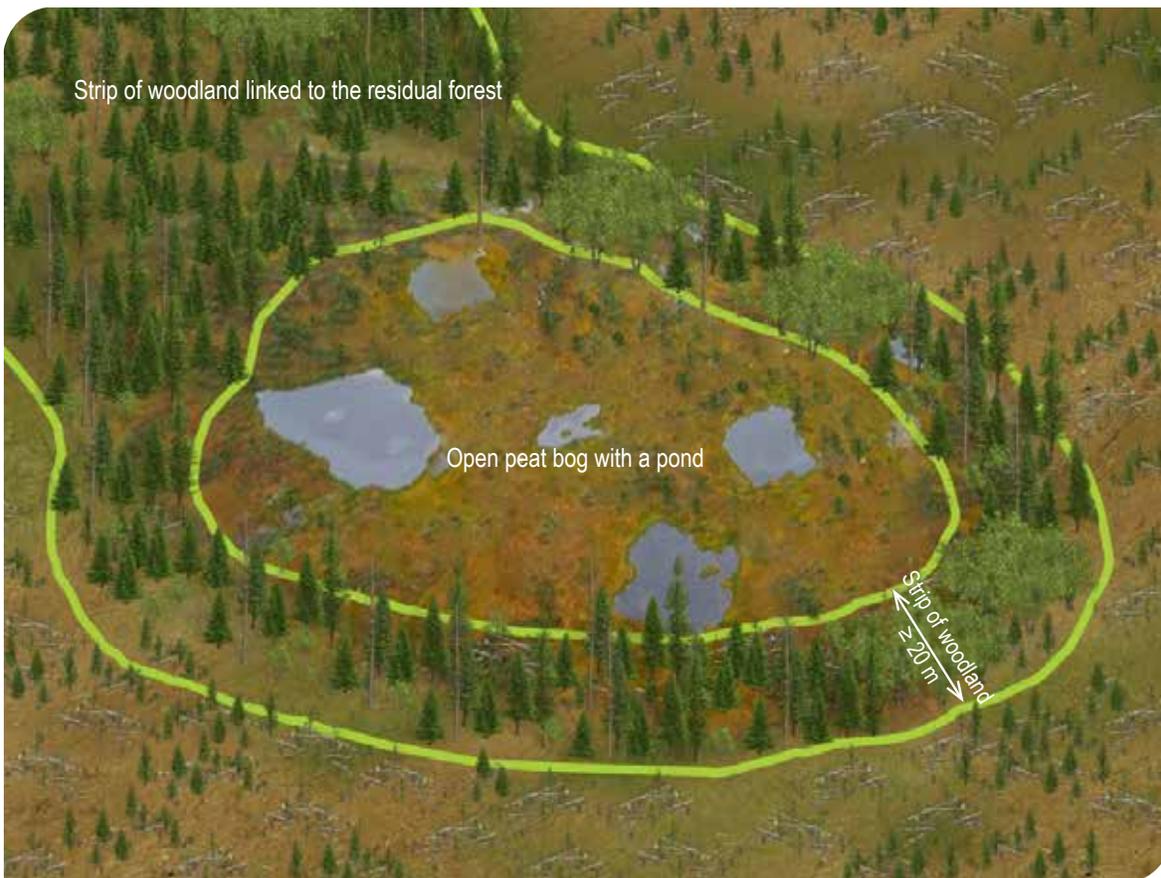


Figure 27A Strip of woodland alongside an open peat bog with a pond

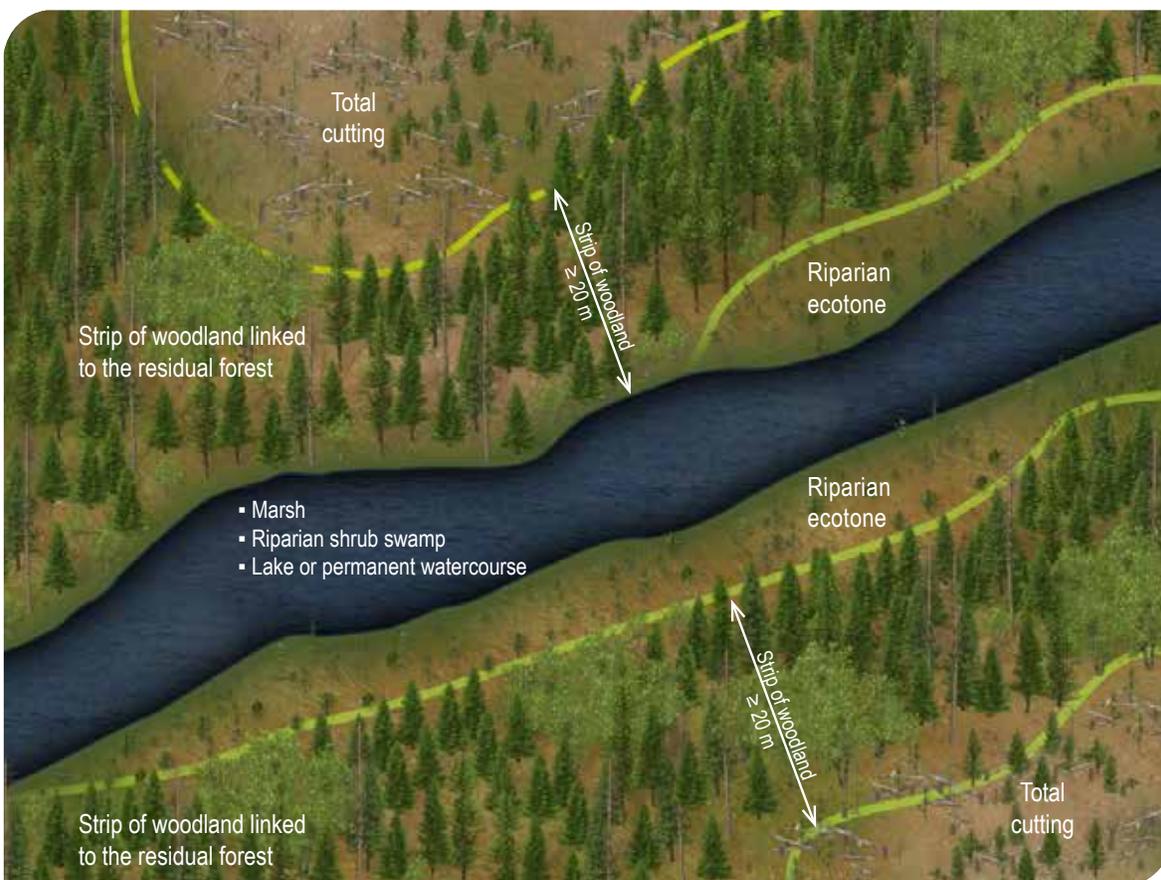


Figure 27B Strip of woodland alongside a wetland or aquatic environment

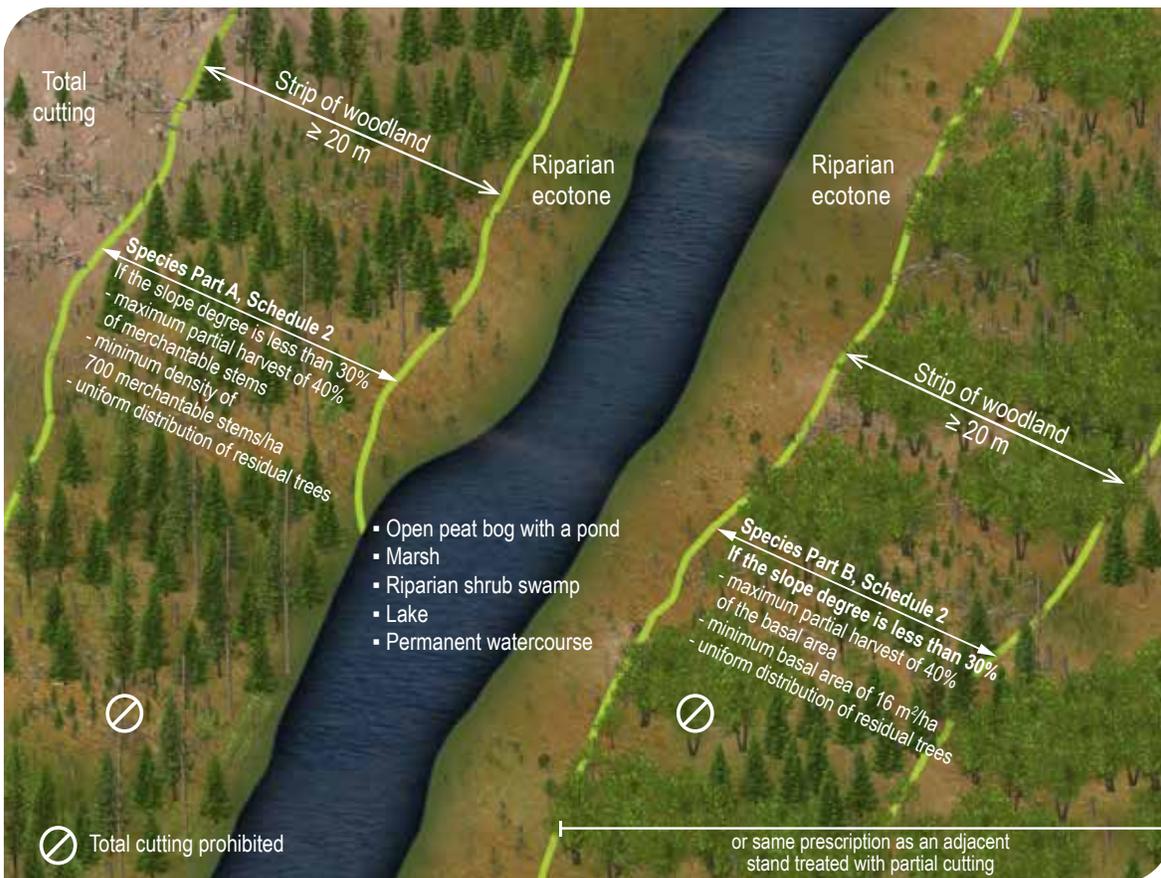


Figure 28 Partial cutting in a strip of woodland alongside a wetland or aquatic environment

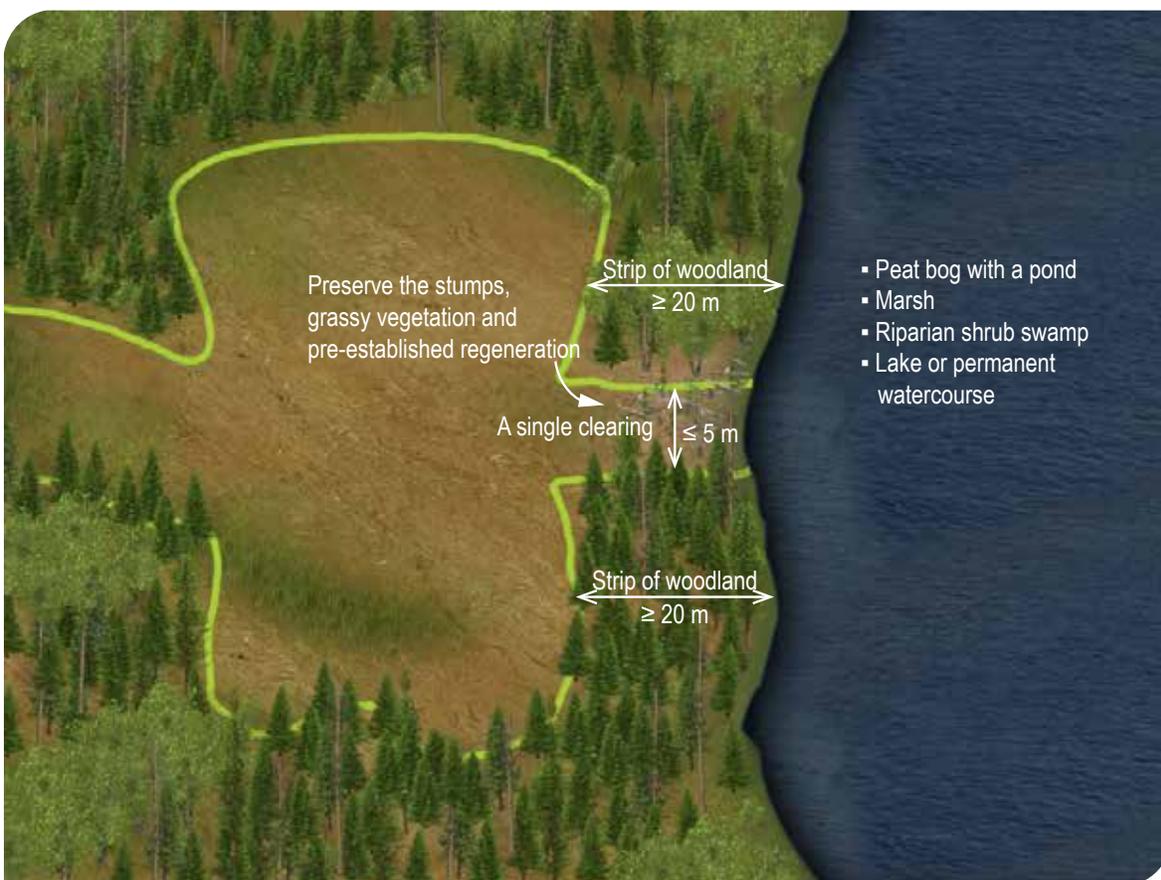


Figure 30 Clearing of an opening in the strip of woodland alongside a wetland or aquatic environment in order to carry out mining exploration work

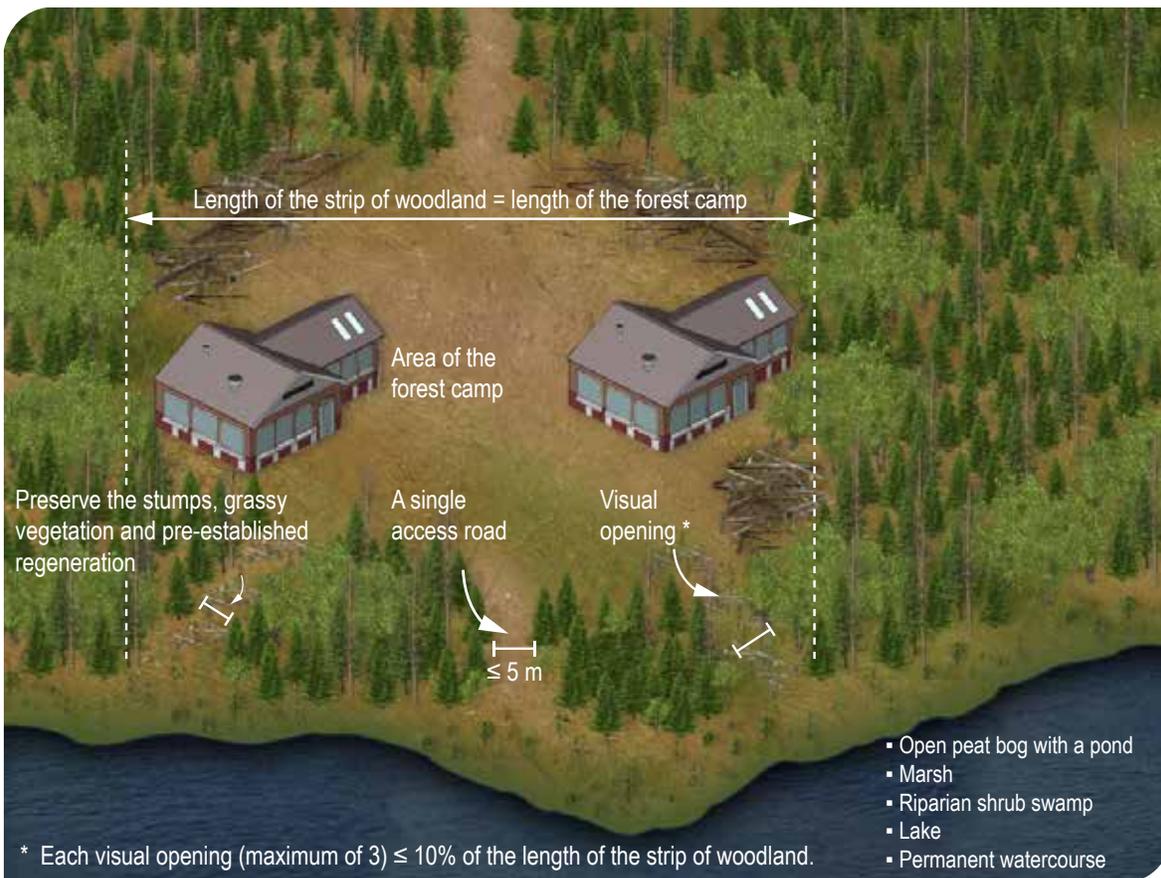


Figure 31 Clearing of openings in the strip of woodland alongside a wetland or aquatic environment located near a forest camp

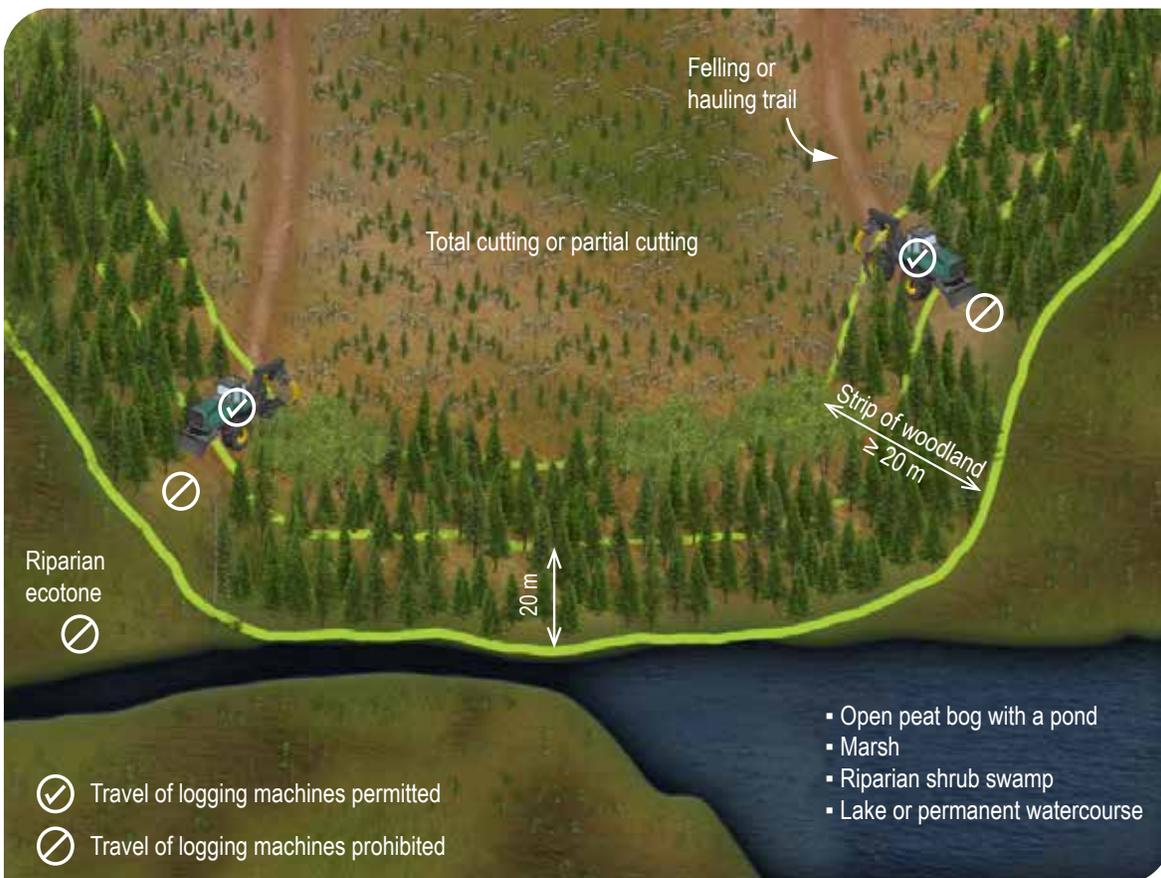


Figure 32A Rules governing travel of logging machines in the riparian ecotone and in the strip of woodland alongside a wetland or aquatic environment

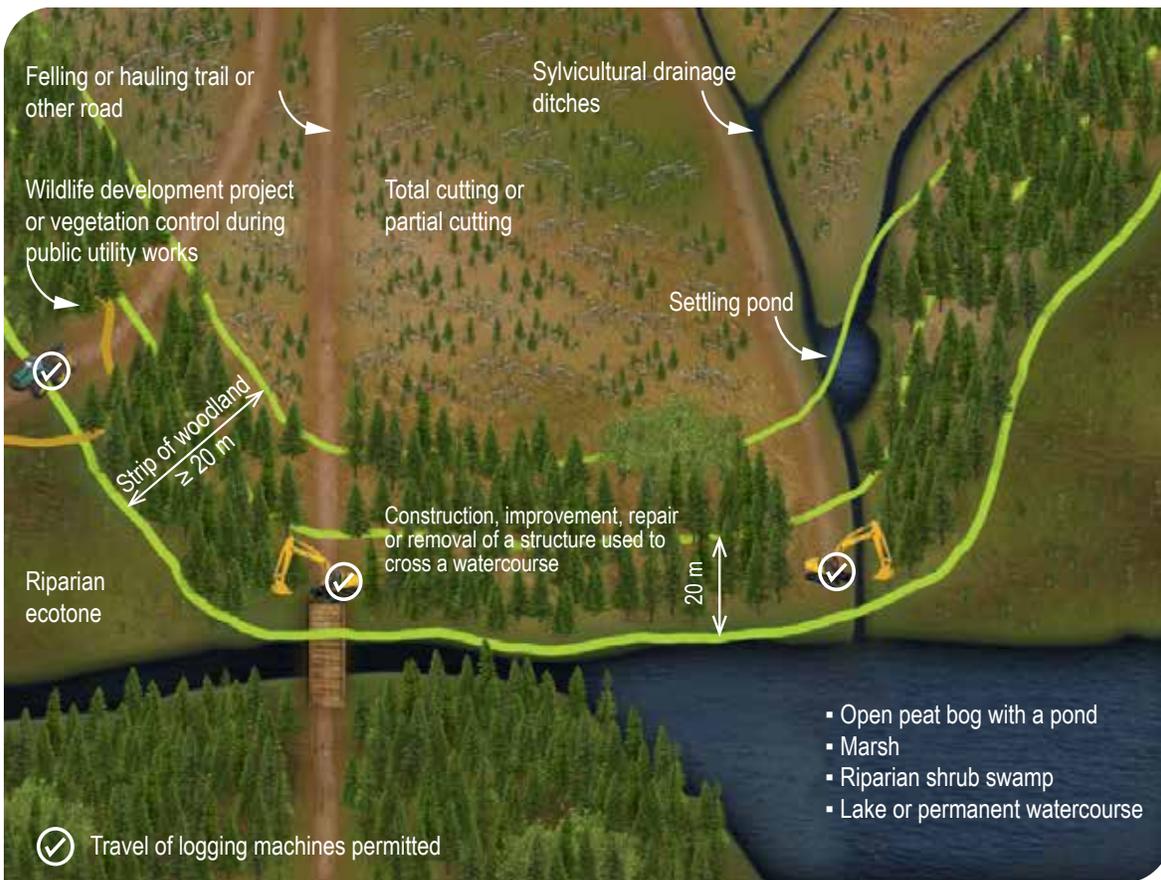


Figure 32B Rules governing travel of logging machines in the riparian ecotone and in the strip of woodland alongside a wetland or aquatic environment



Figure 34A Rules governing the travel of logging machines alongside a wetland or aquatic environment

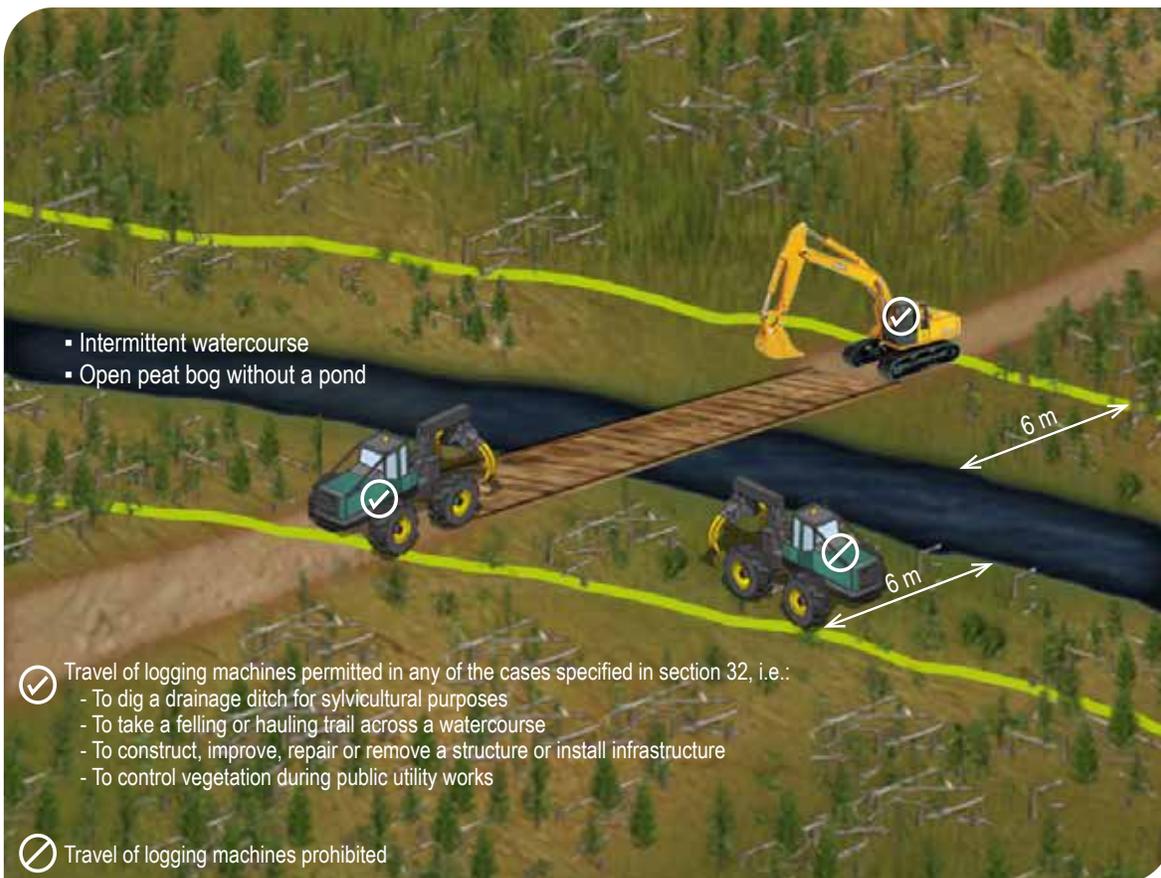


Figure 34B Rules governing the travel of logging machines alongside a wetland or aquatic environment

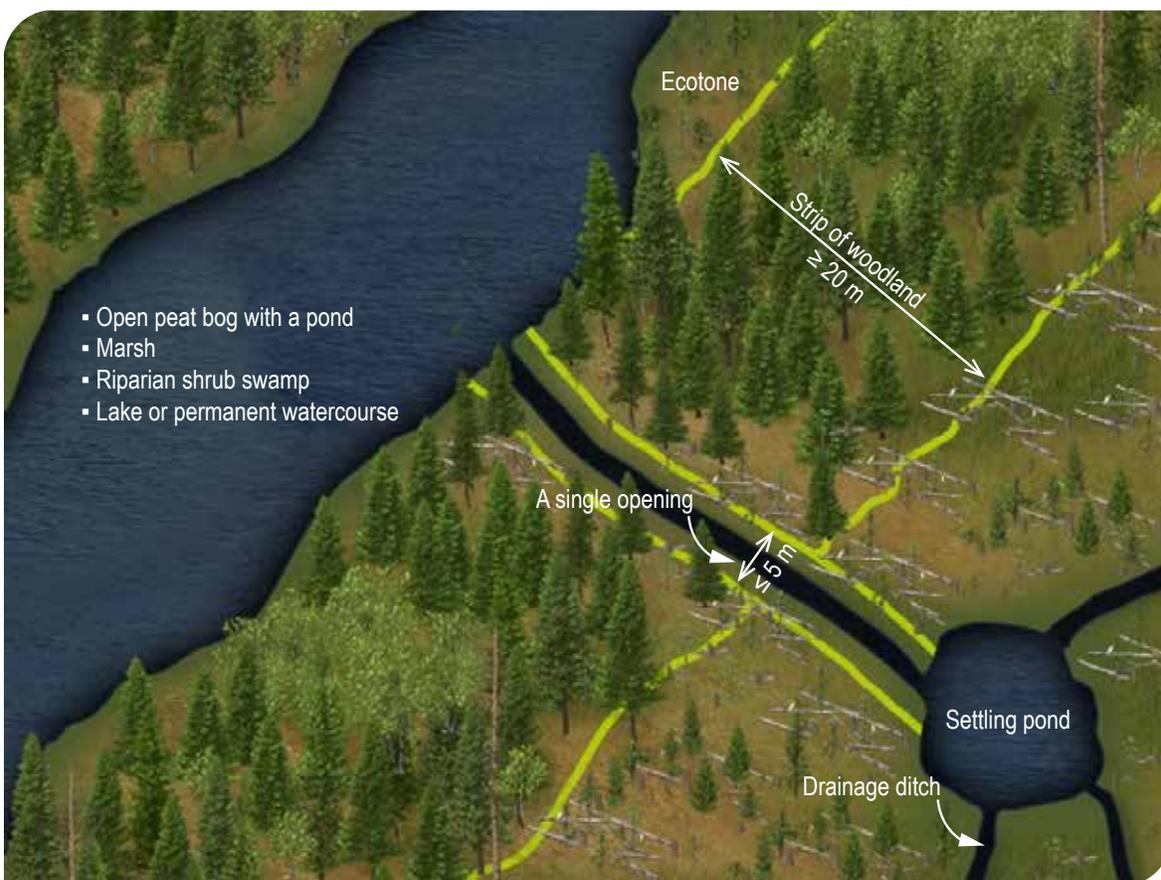


Figure 35 Rules governing the digging of a drainage ditch or network of silvicultural drainage ditches

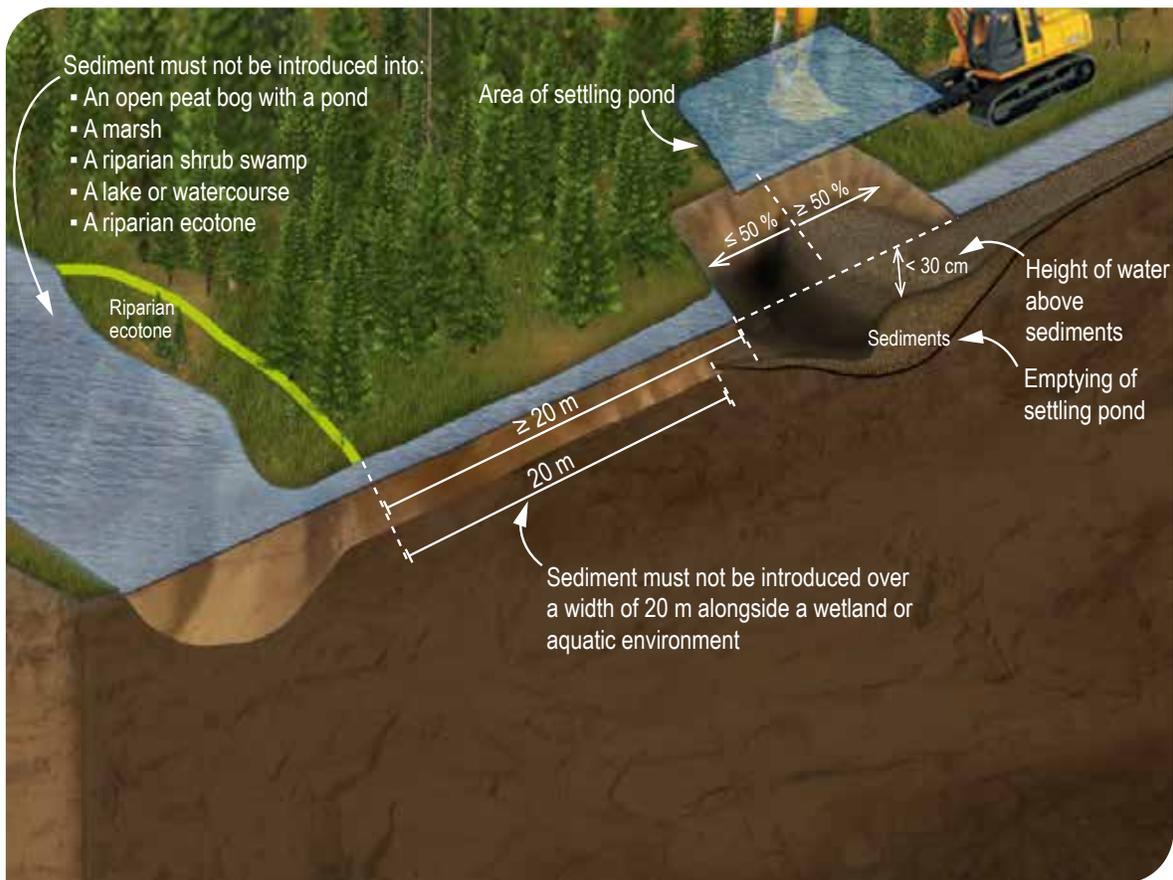


Figure 36 Rules governing the digging of a drainage ditch or network of silvicultural drainage ditches

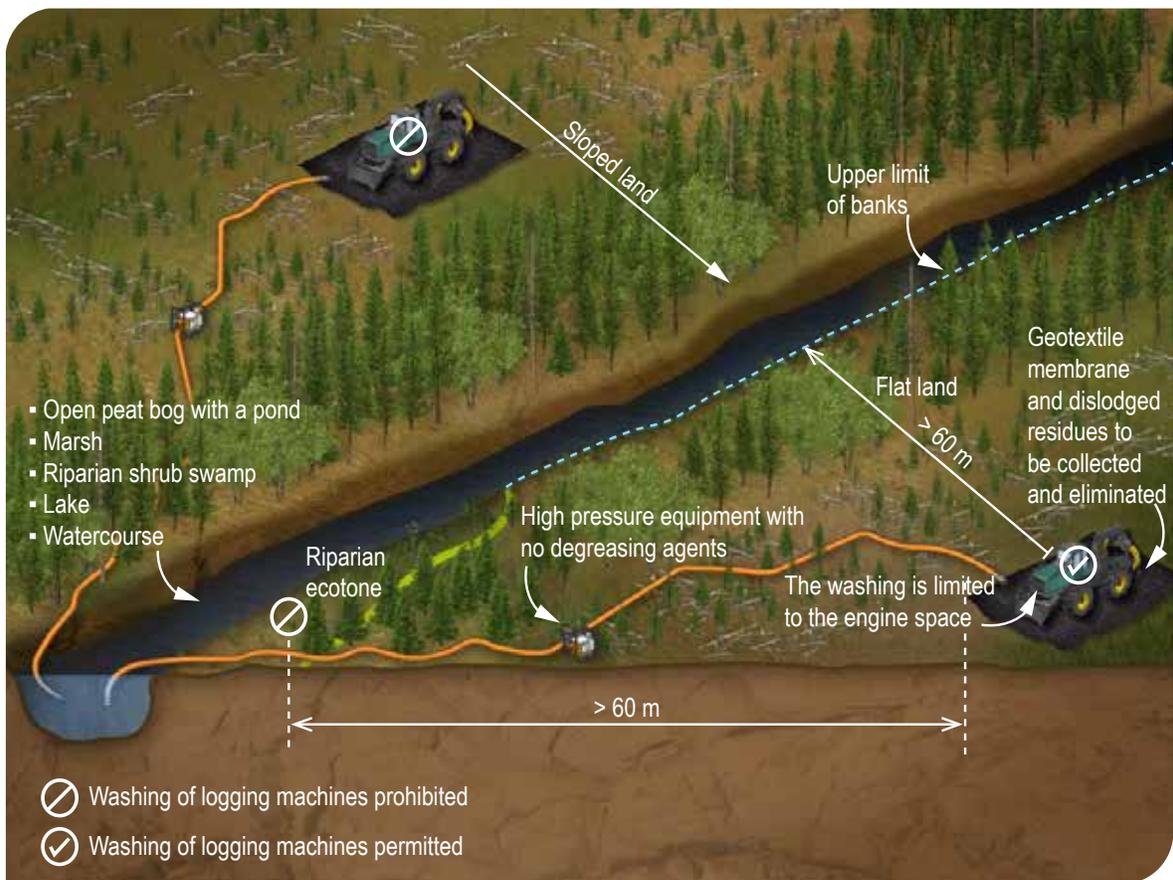


Figure 38 Rules governing the washing of logging machines

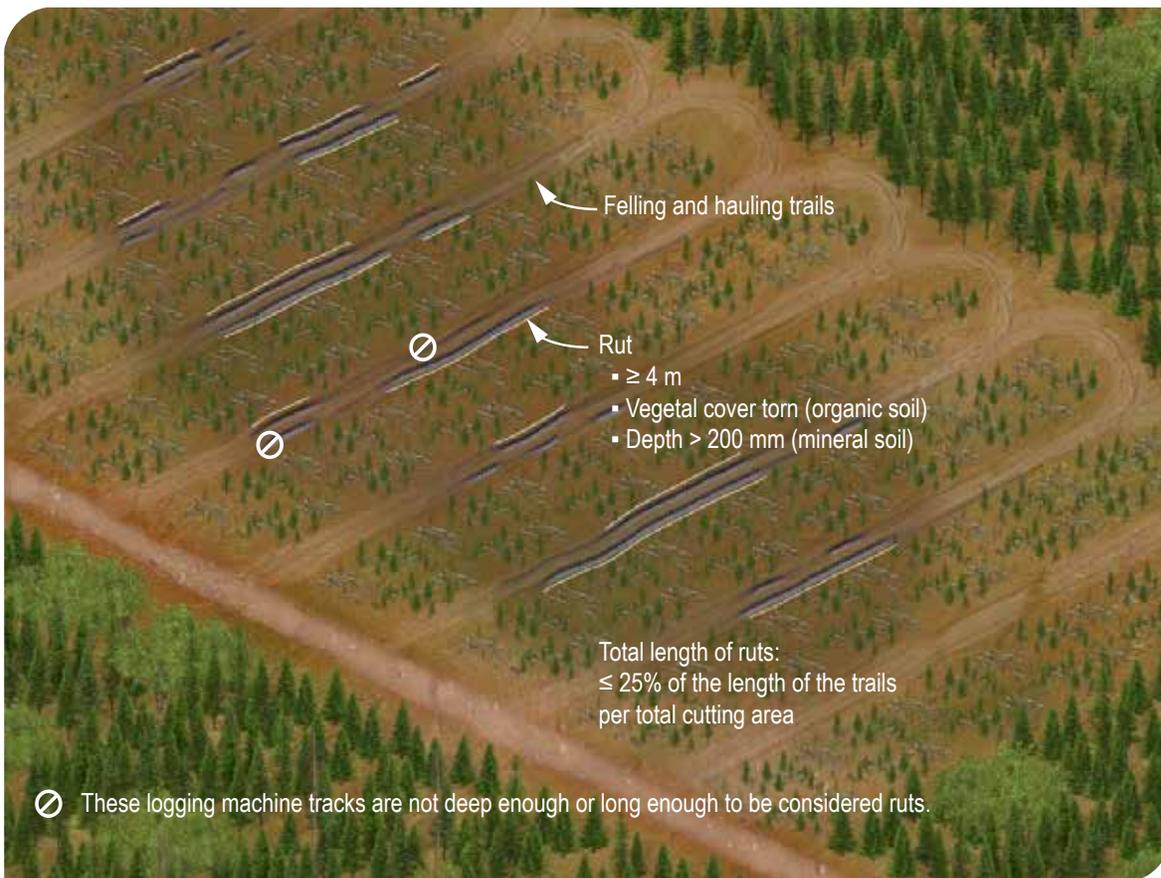


Figure 45A Limitation of rutting in felling and hauling trails

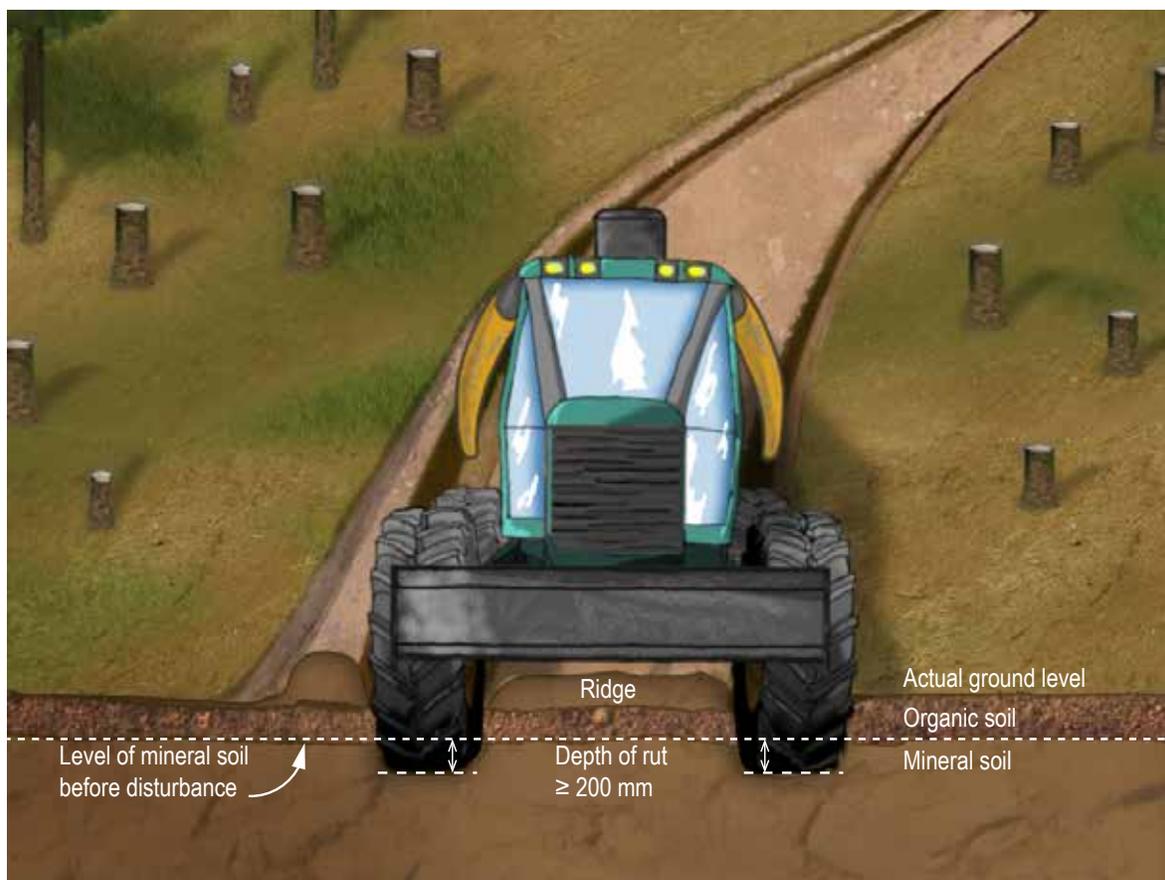


Figure 45B Measuring rut depth

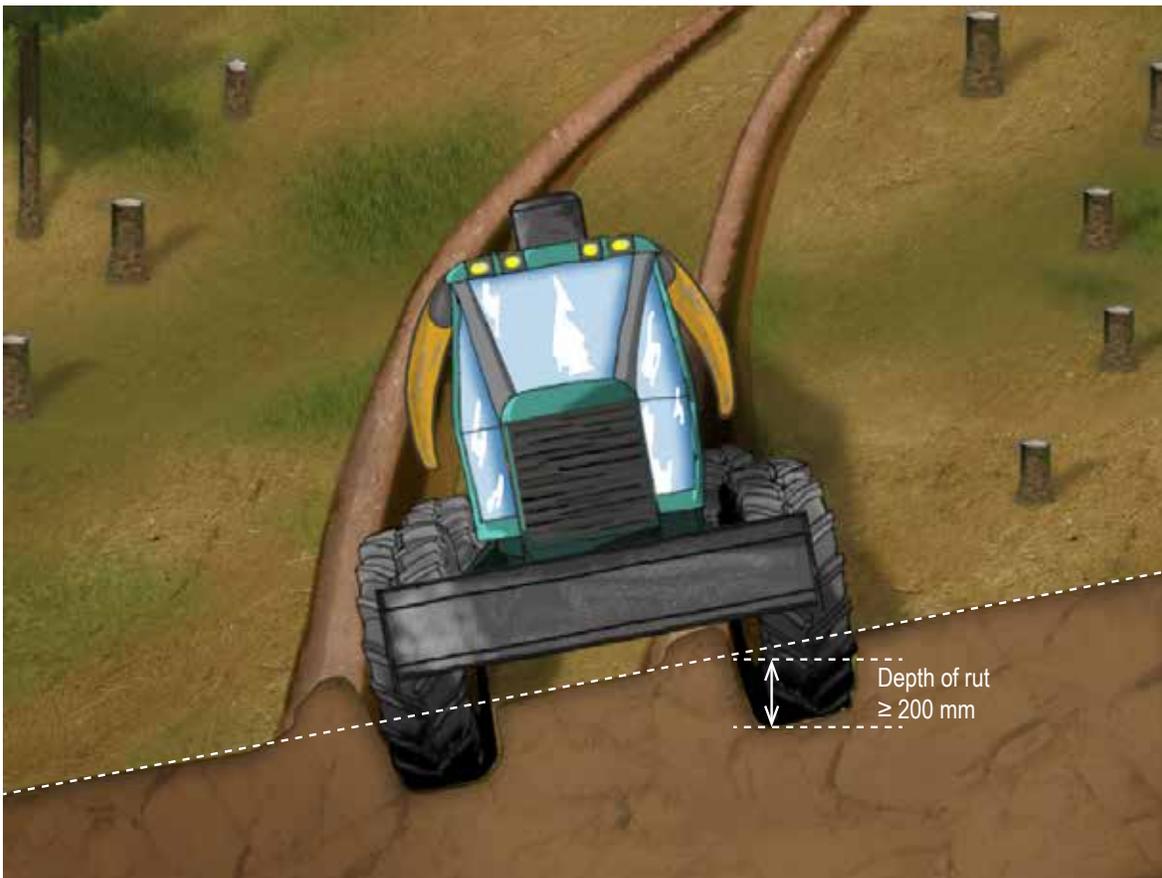


Figure 45C Measuring rut depth on slope

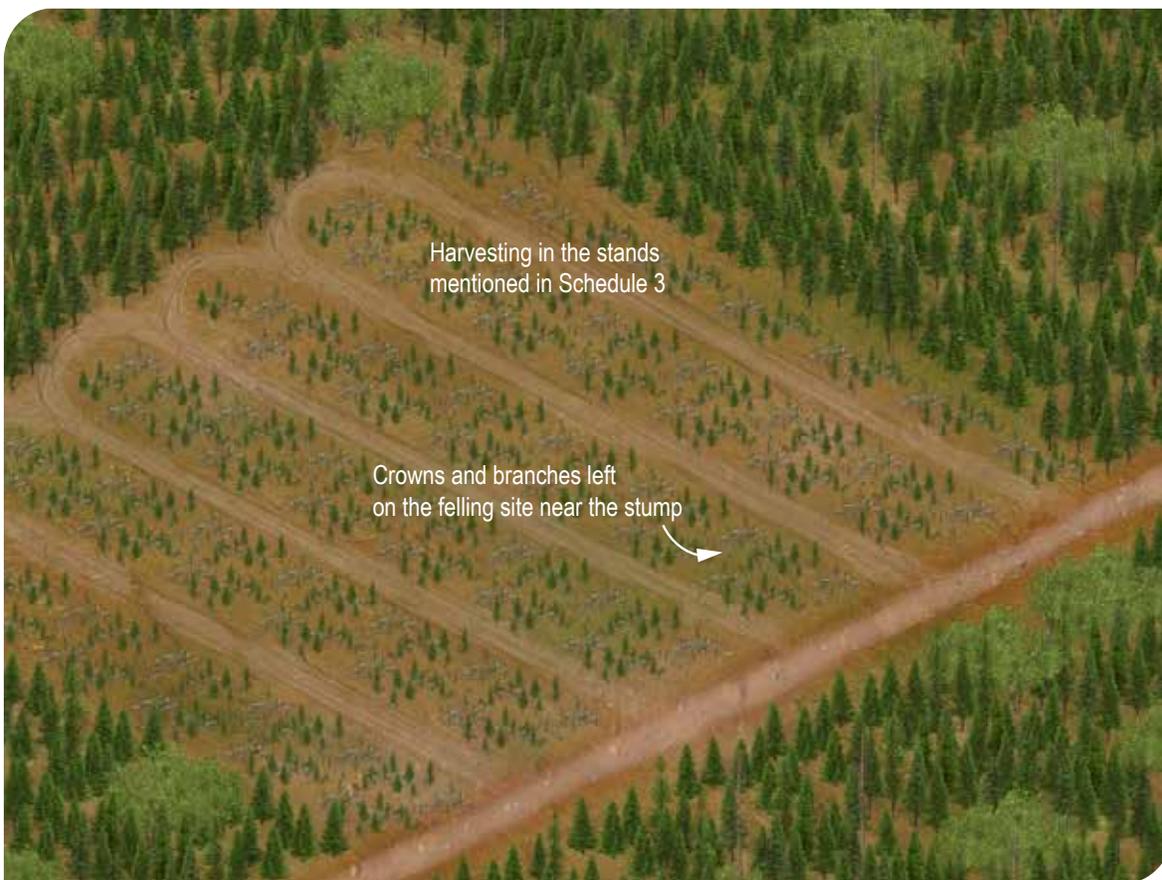


Figure 46 Branches and crowns left on the felling site to prevent long-term loss of soil productivity

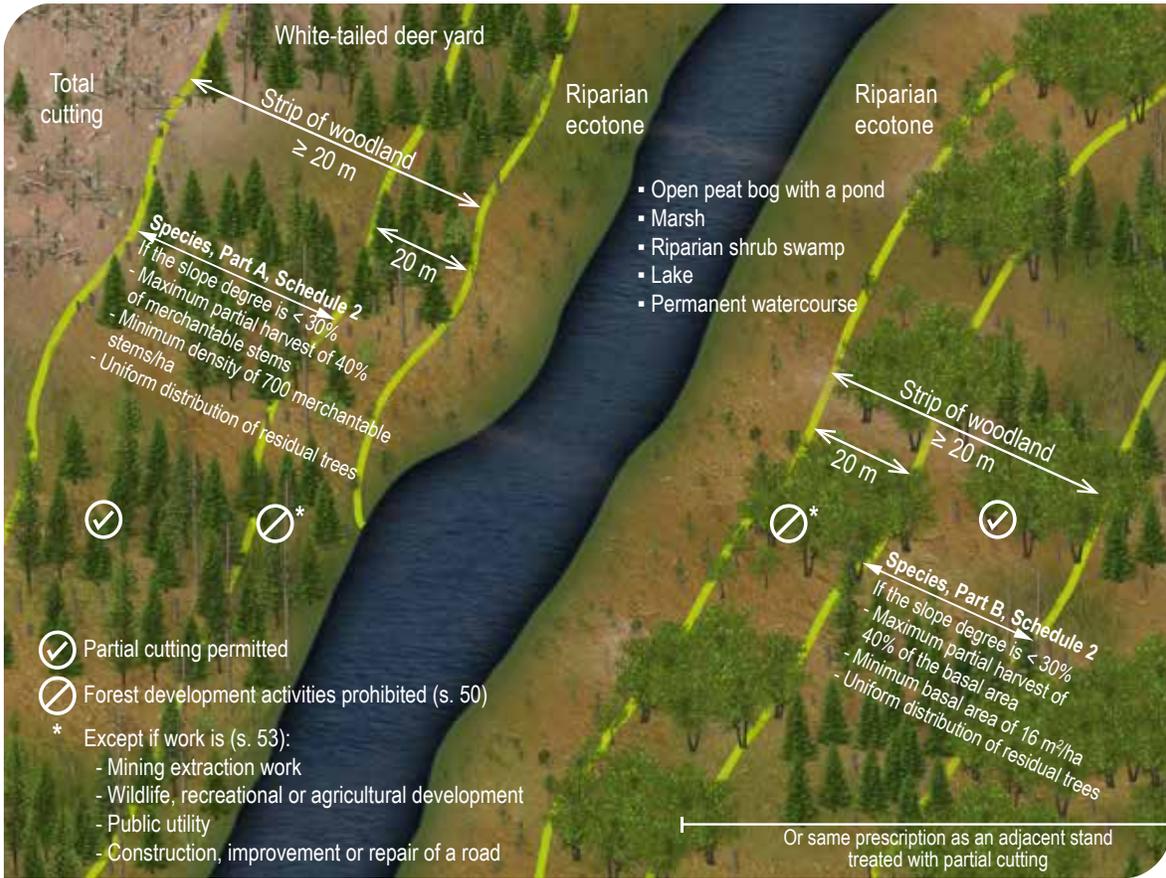


Figure 50A Rules governing forest development activities in the strip of woodland alongside a wetland or aquatic environment located in a white-tailed deer yard

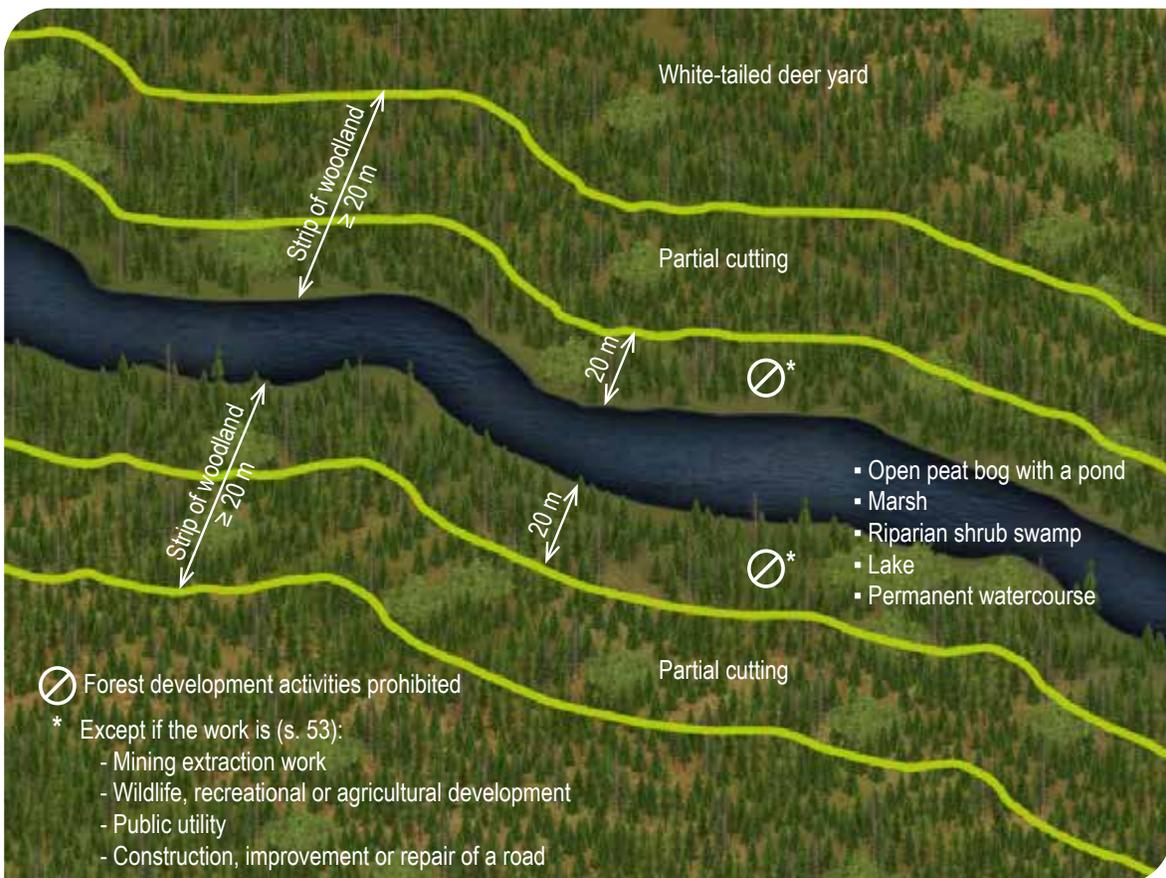


Figure 50B Rules governing forest development activities in the strip of woodland alongside a wetland or aquatic environment located in a white-tailed deer yard

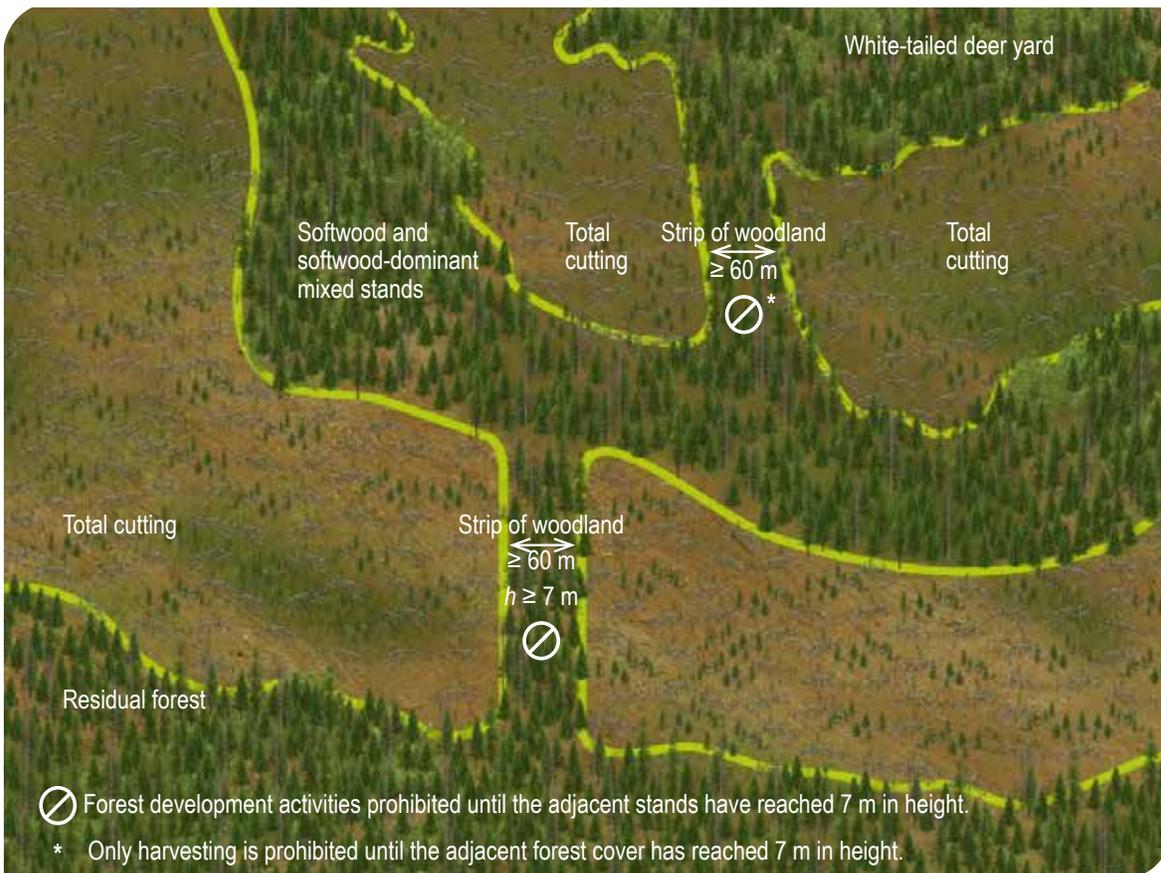


Figure 52 Strips of woodland connecting a white-tailed deer yard to the residual forest or separating two areas of total cutting in softwood and softwood-dominant mixed stands within a white-tailed deer yard

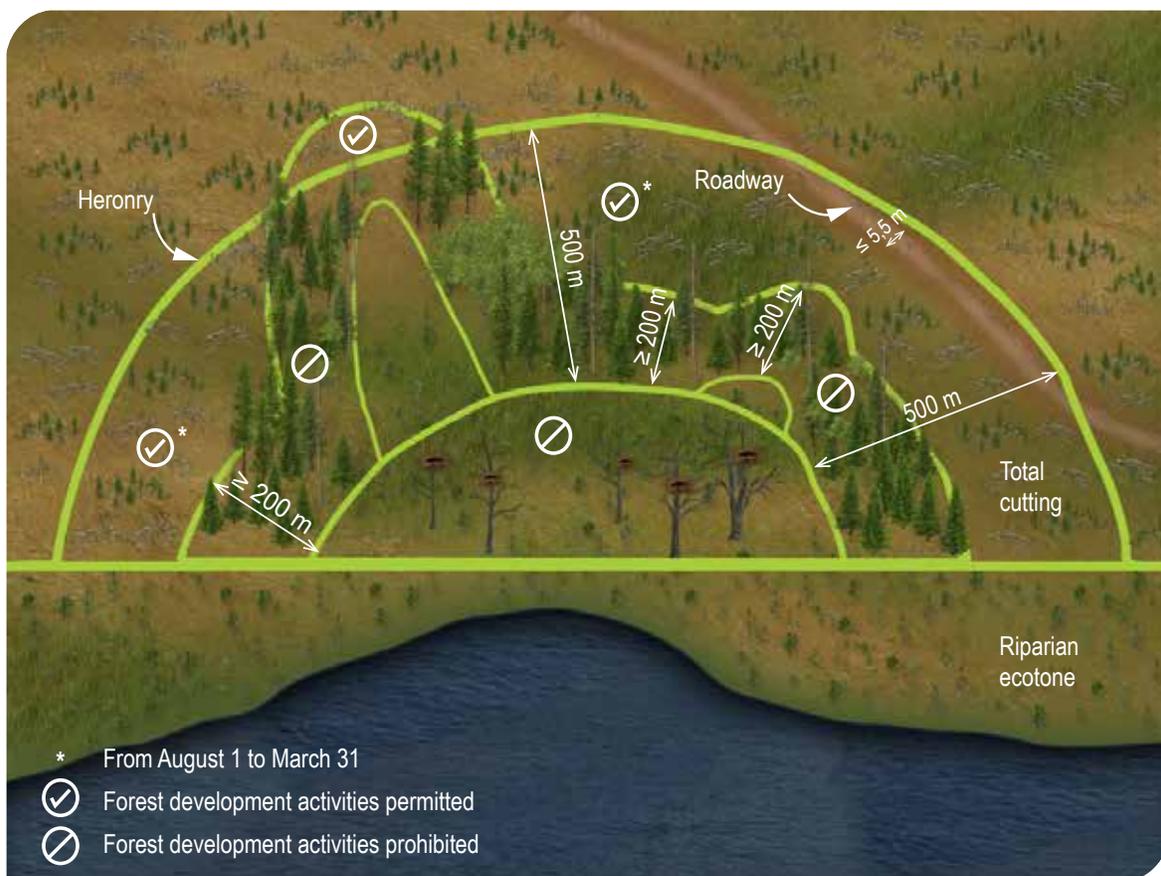


Figure 54 Rules governing forest development activities in heronries

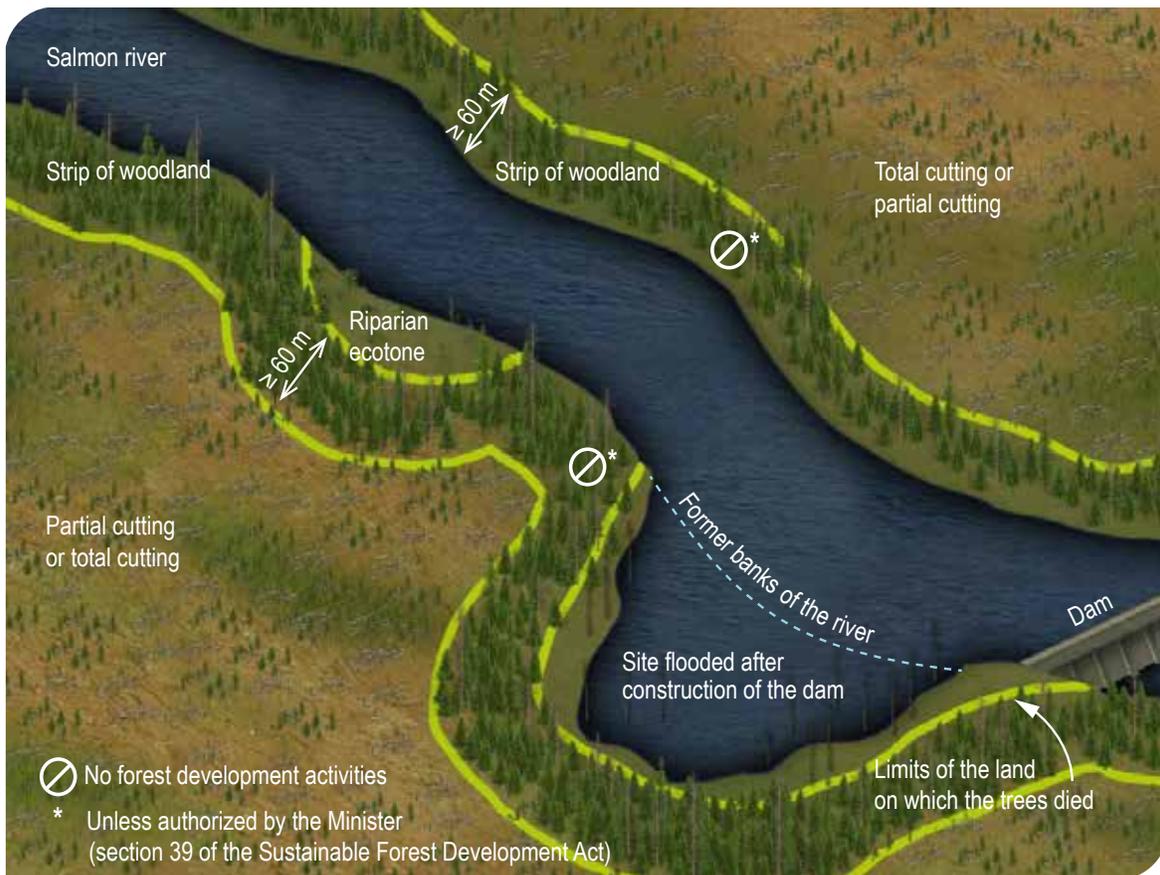


Figure 55 Rules governing forest development activities alongside a salmon river



Figure 56 Rules governing forest development activities alongside a bear den



Figure 57 Rules governing forest development activities alongside a salt lick

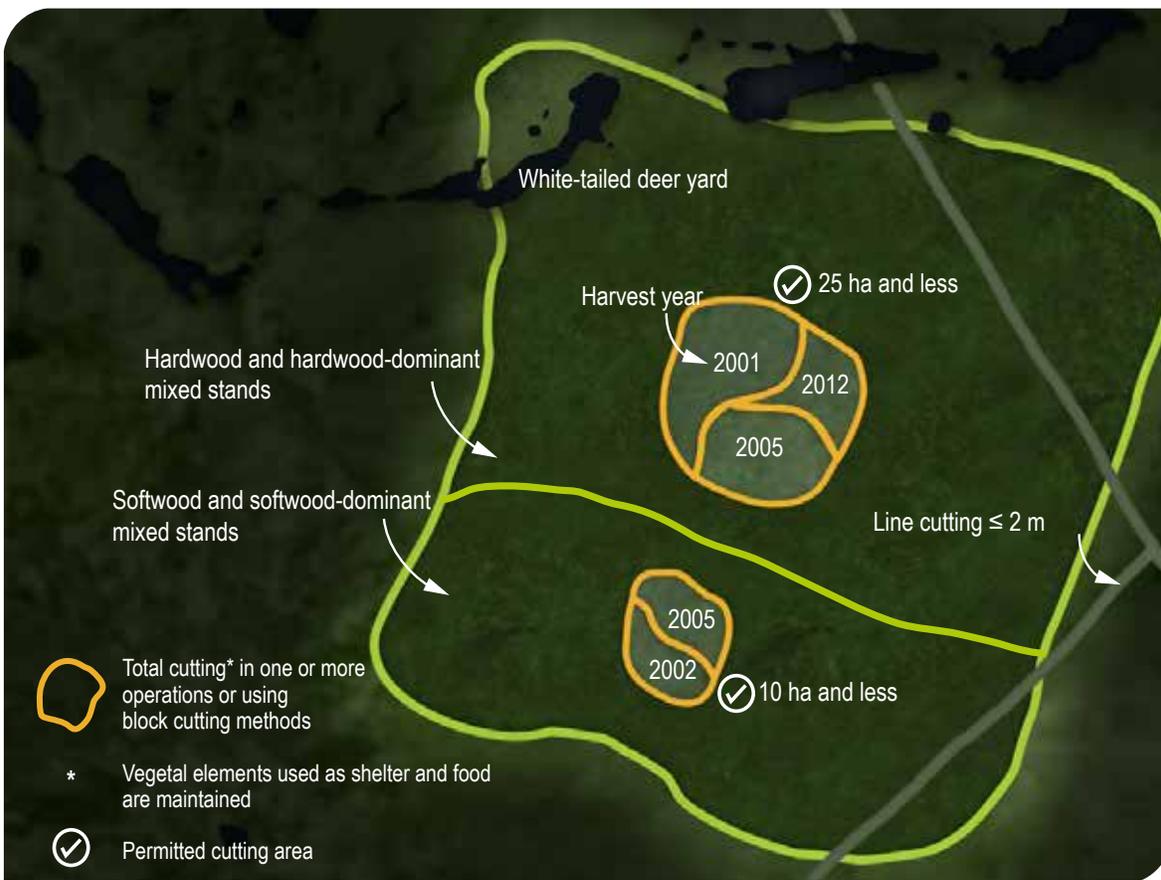


Figure 58 Rules governing forest development activities in a white-tailed deer yard

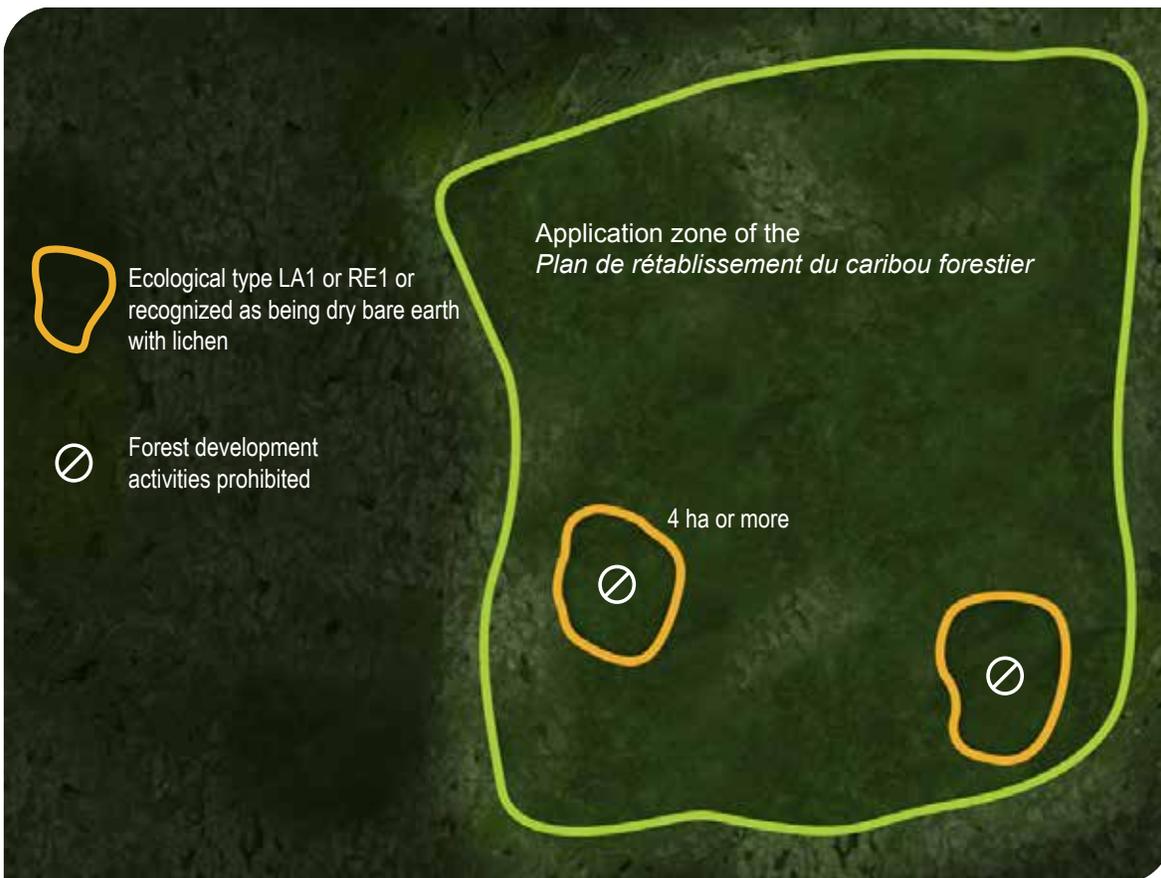


Figure 59 Rules governing forest development activities in the application zone of the Plan de rétablissement du caribou forestier, ecotype forestier

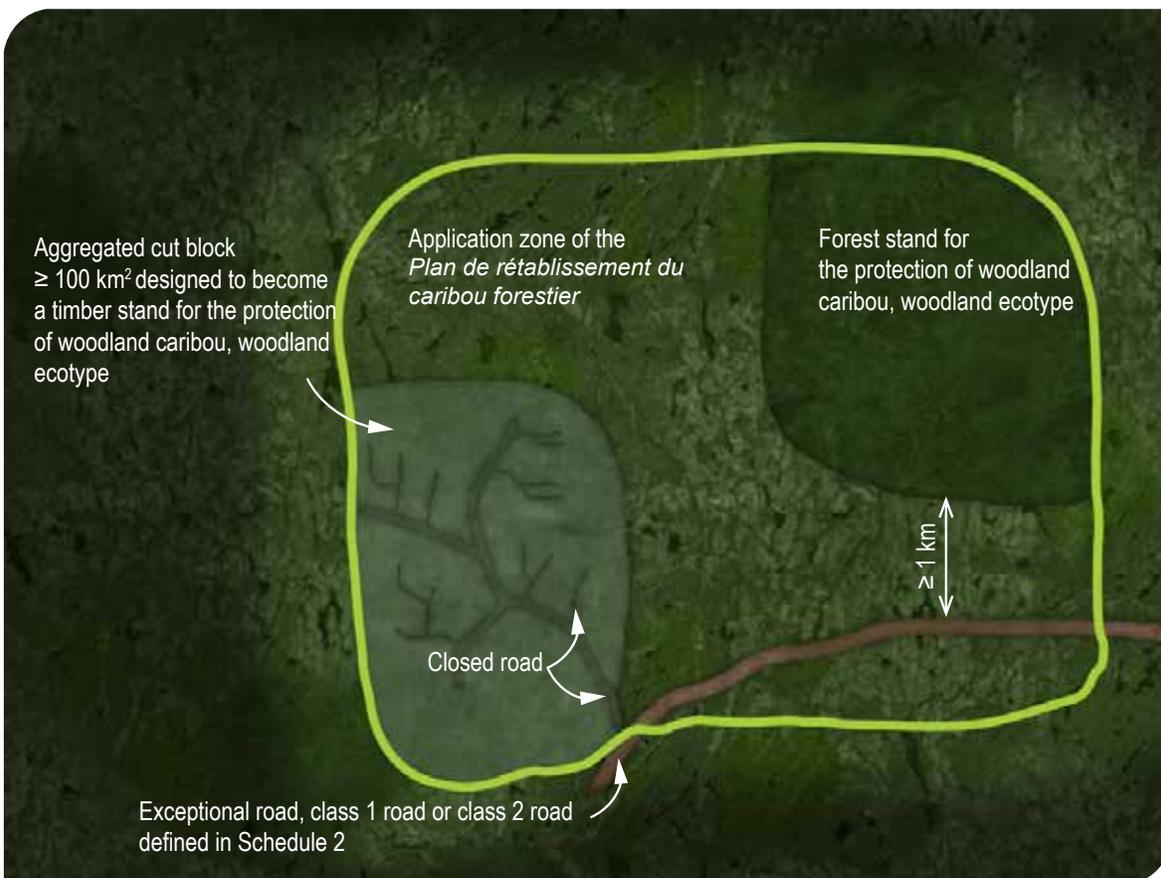


Figure 60 Rules governing the location, closure and restoration to production of a road in the application zone of the Plan de rétablissement du caribou des bois, ecotype forestier

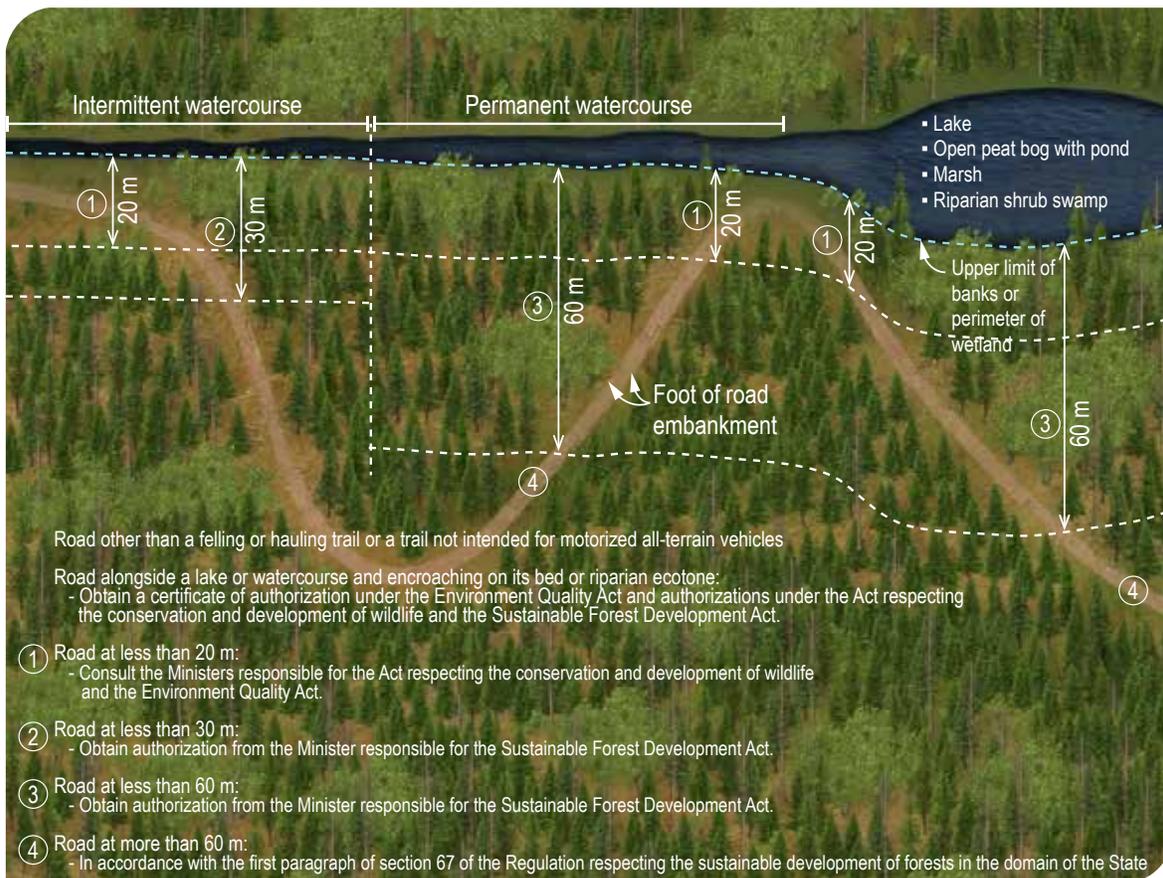


Figure 67A Rules governing the construction or improvement of a road located near a wetland or aquatic environment

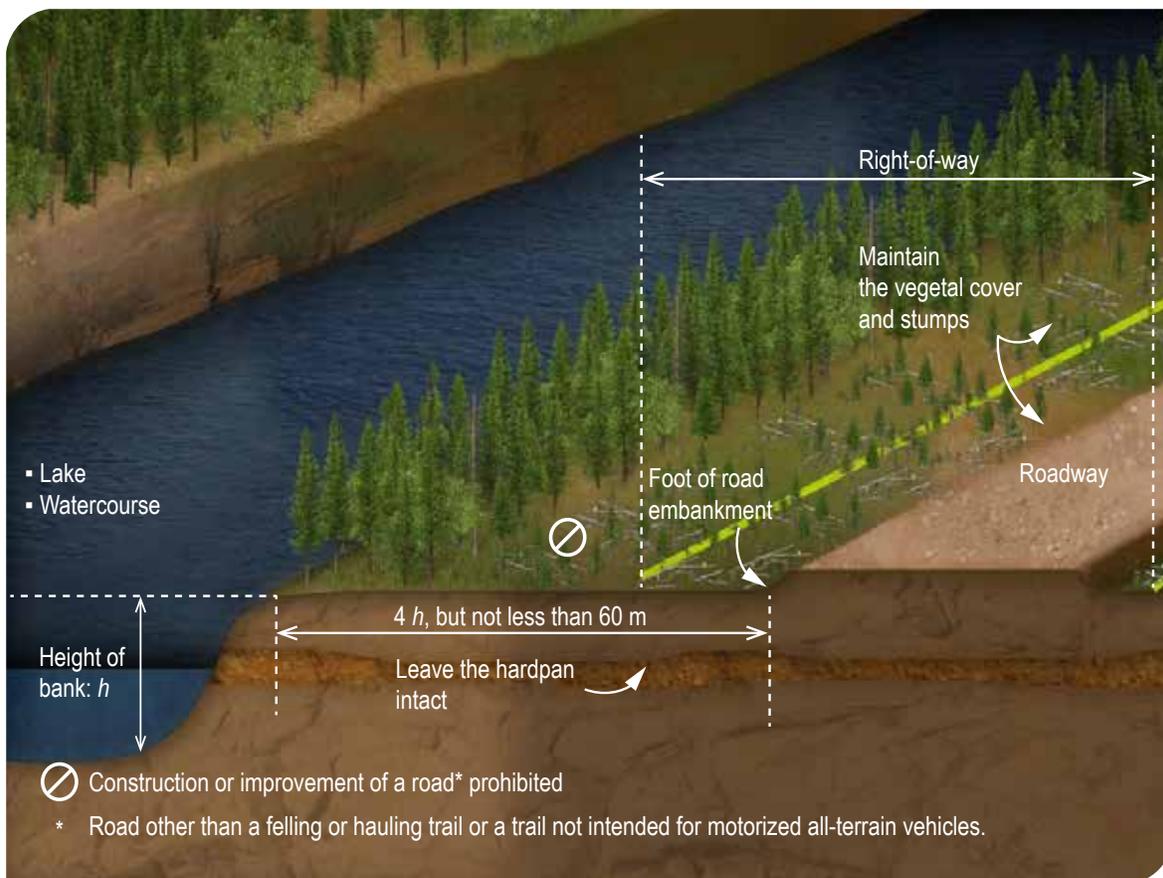


Figure 67B Rules governing the construction or improvement of a road located near a lake or watercourse, on soil that is impervious hardpan

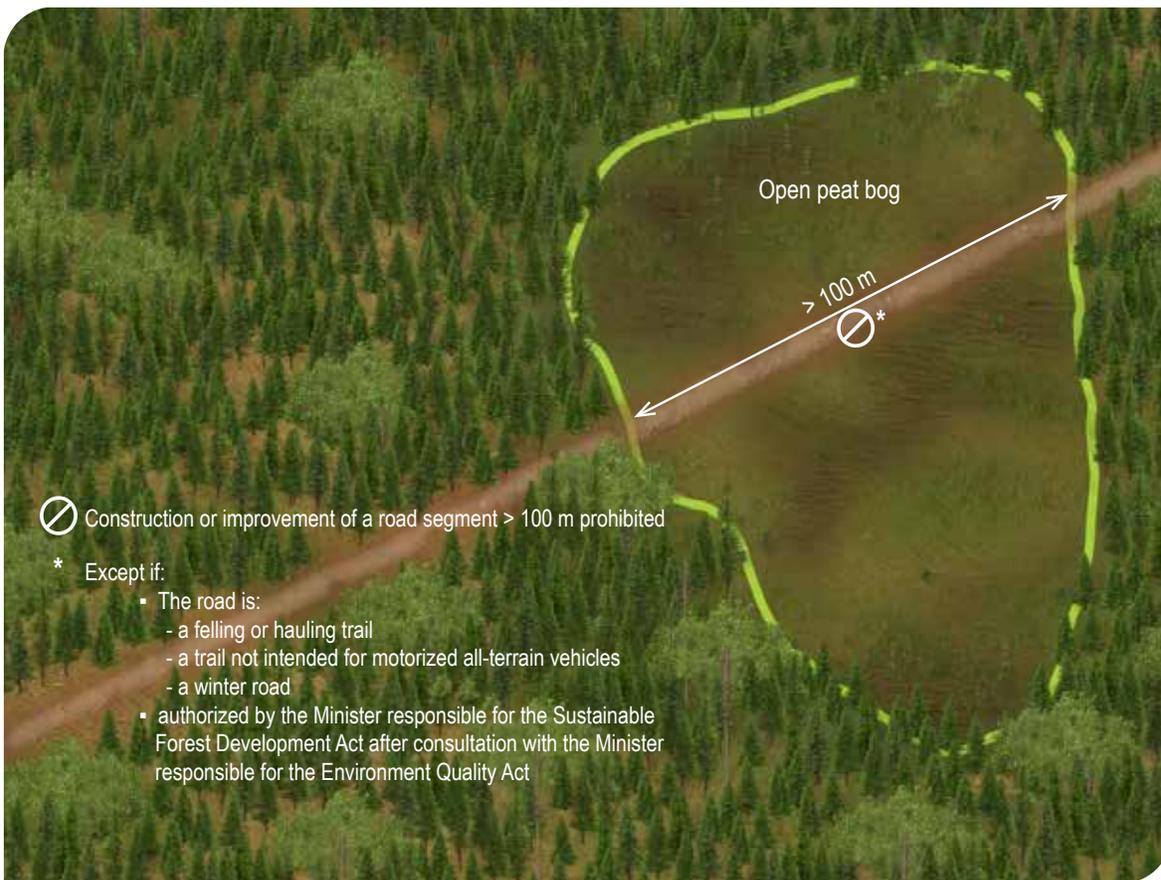


Figure 70 Rules governing the construction or improvement of a road located in an open peat bog

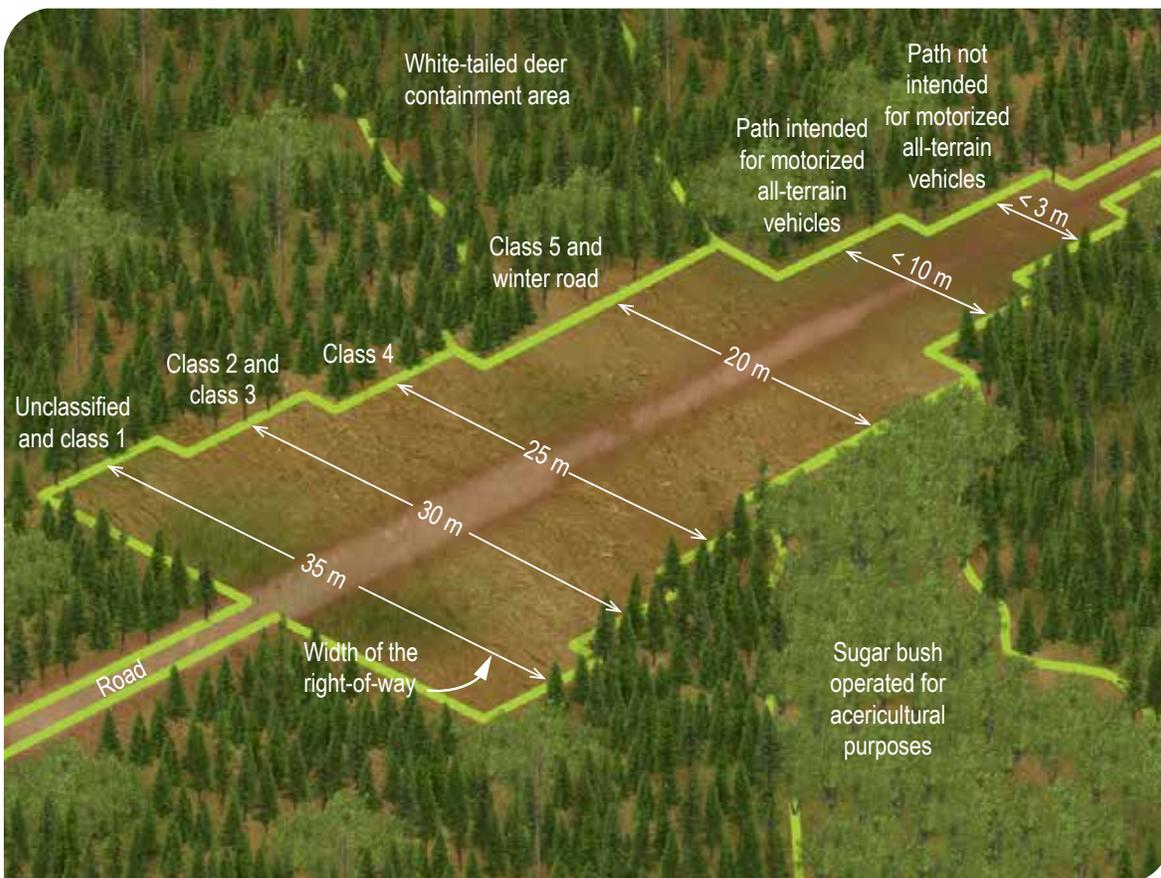


Figure 71 Width of right-of-way by class of road

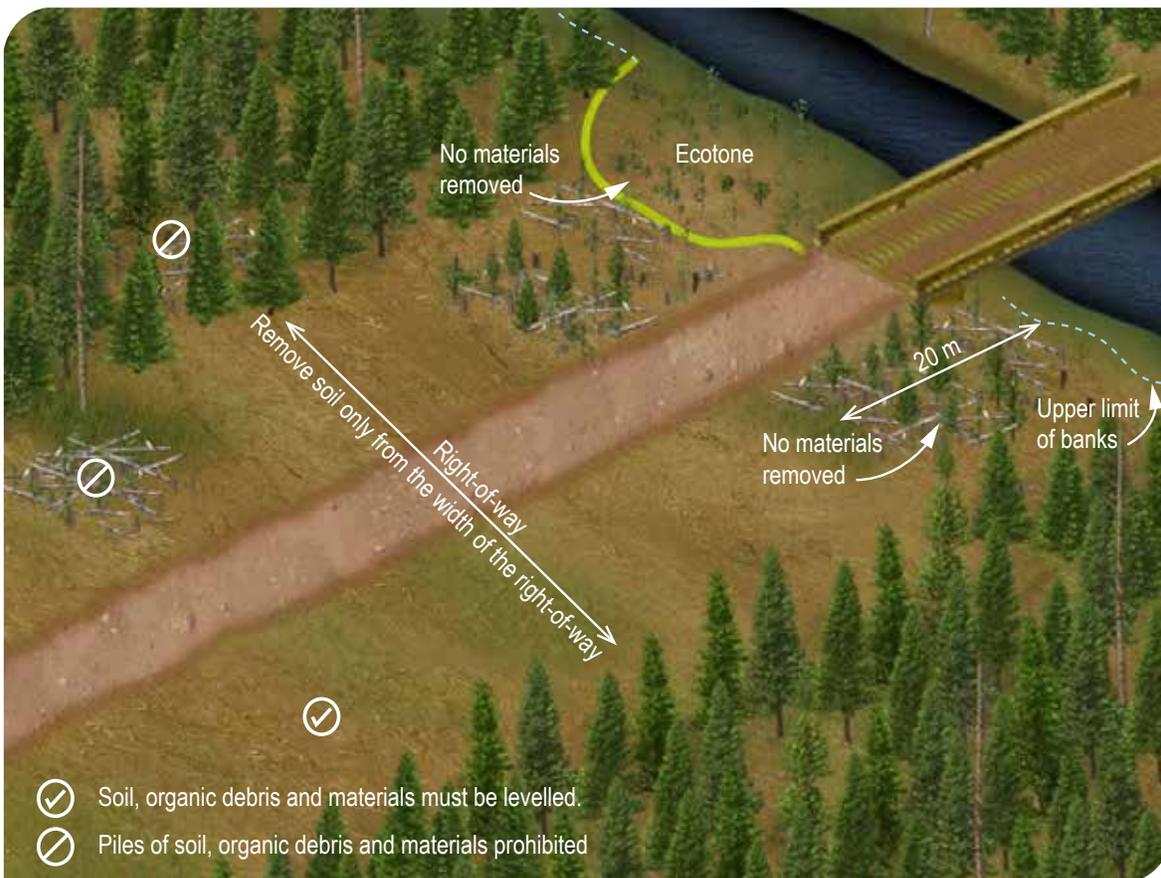


Figure 72 Removal of soil, organic debris and materials from the right-of-way of a road

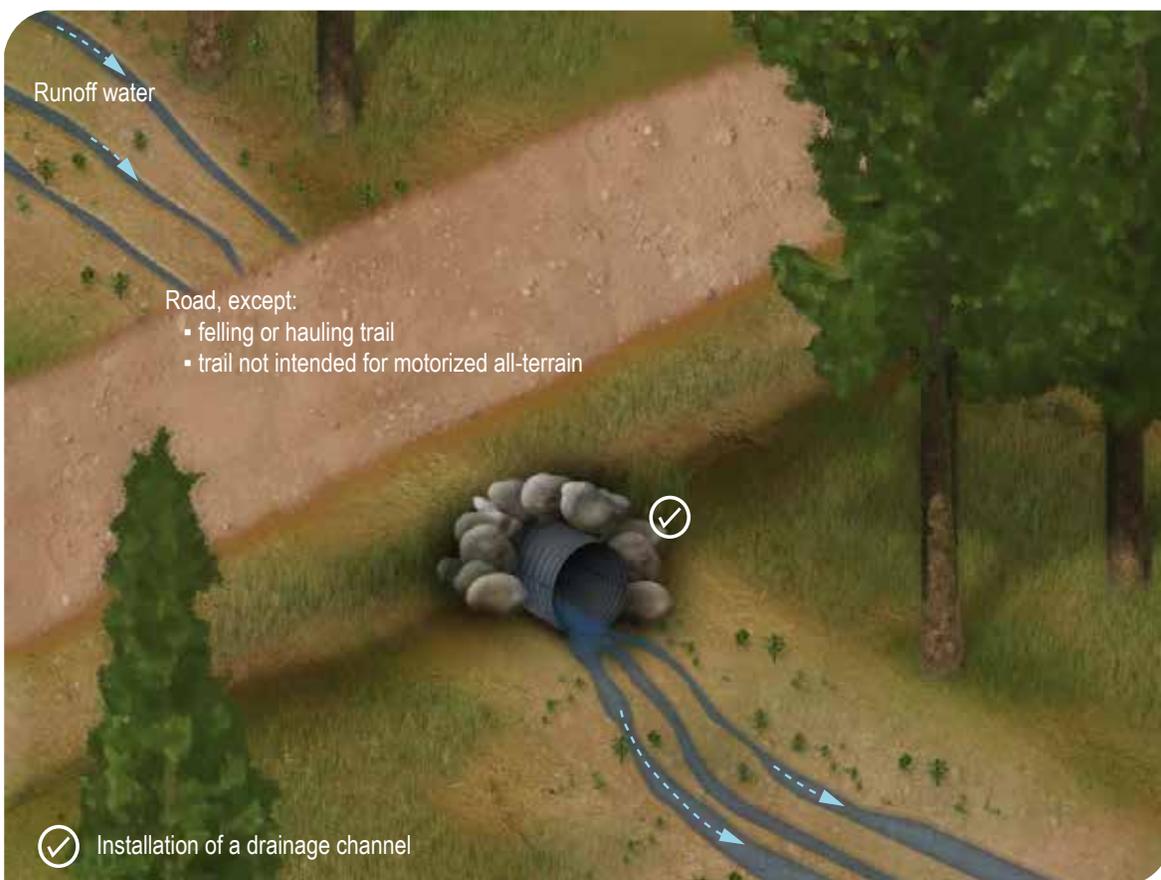


Figure 74 Installation of a drainage channel to allow water to flow from one side of the road to the other

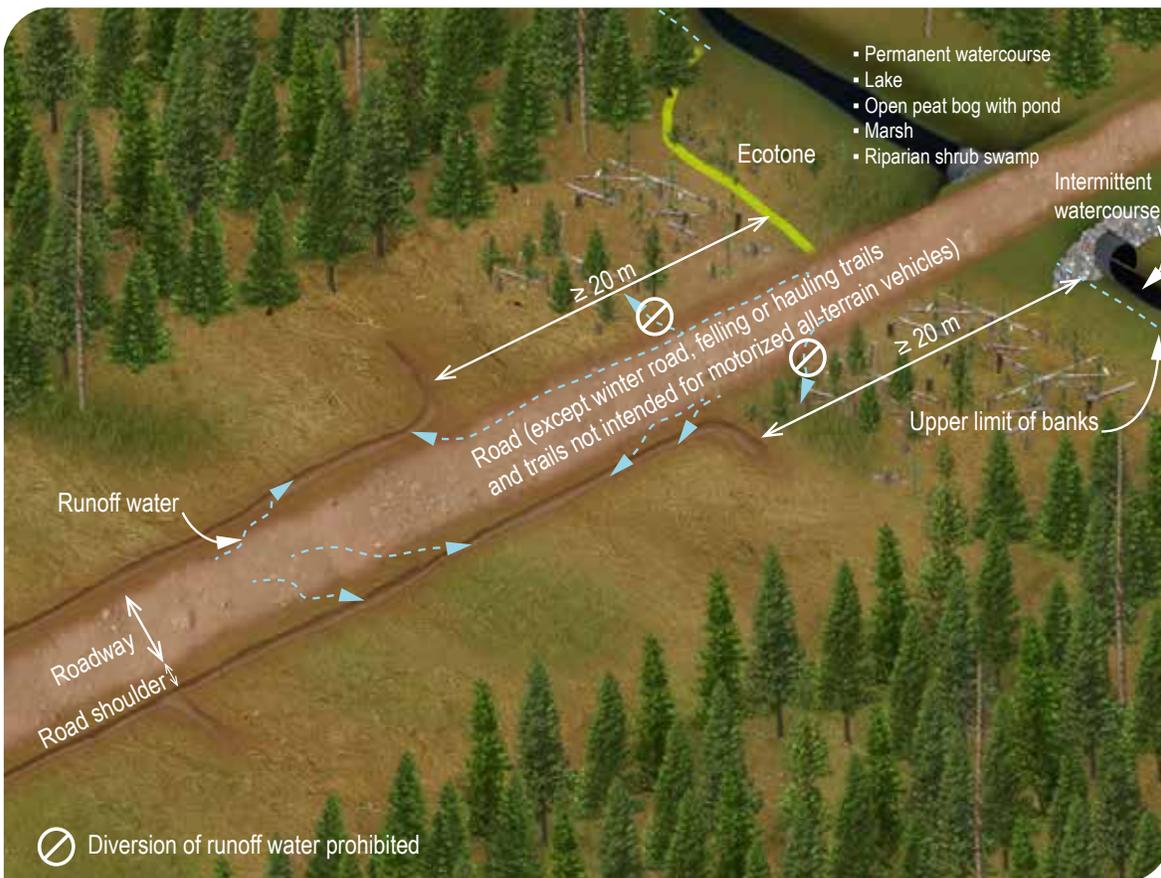


Figure 75 Evacuation of runoff water from the roadway surface

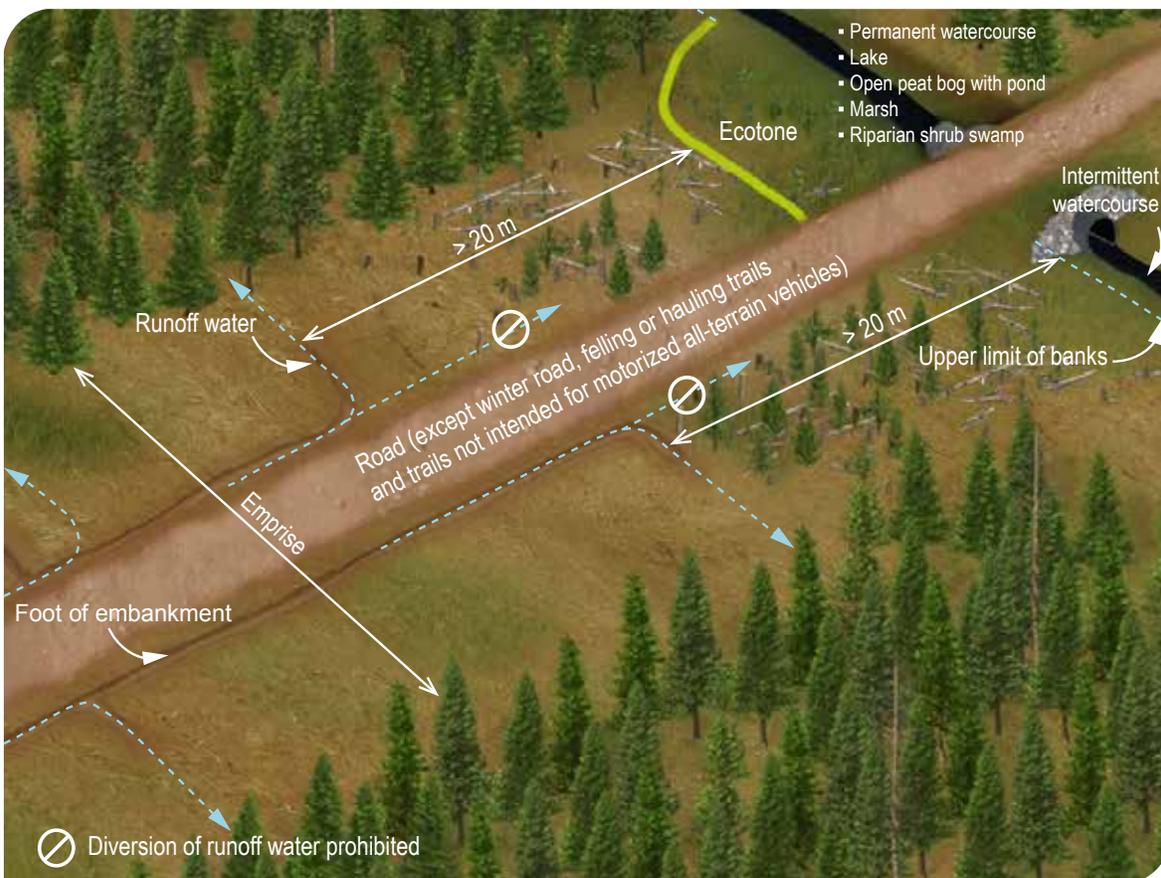


Figure 76A Diversion of water flowing at the foot of the embankment of a road

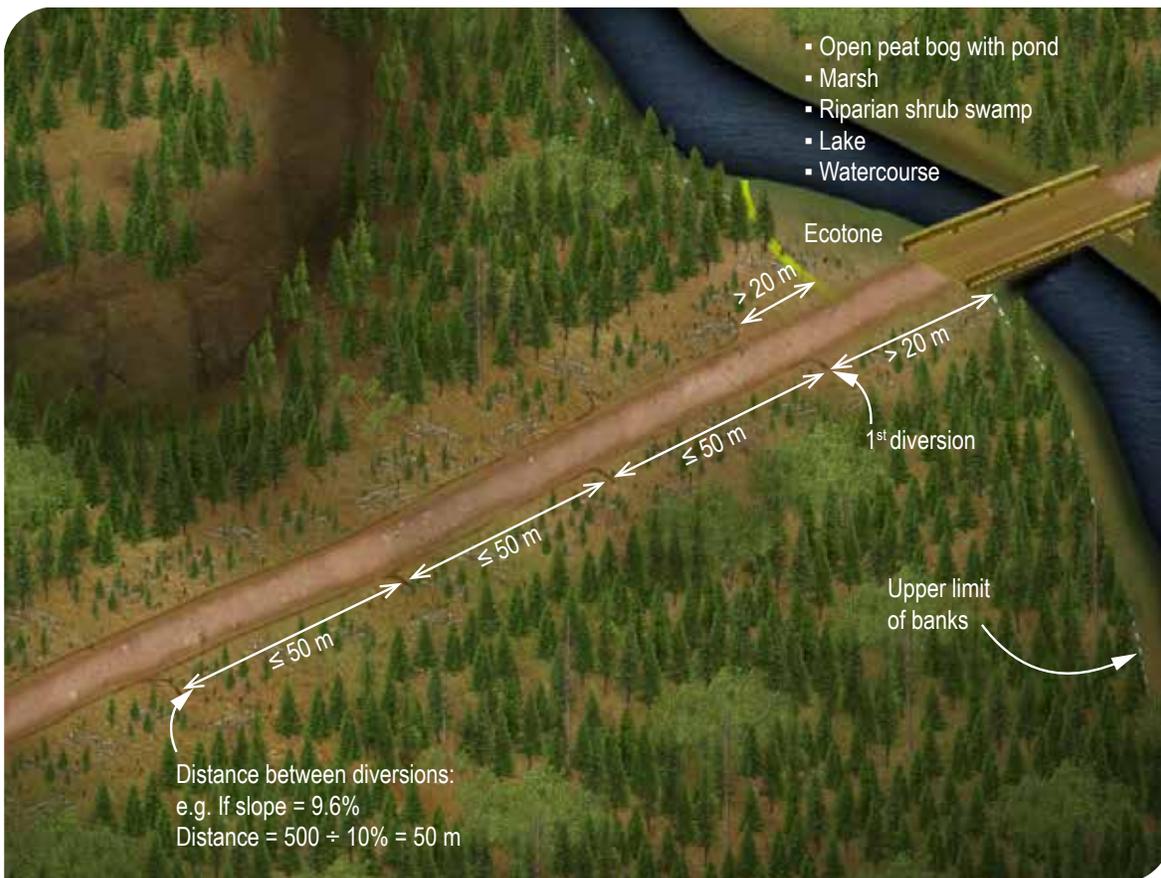


Figure 76B Distance between diversions of water flowing at the foot of the embankment of a road

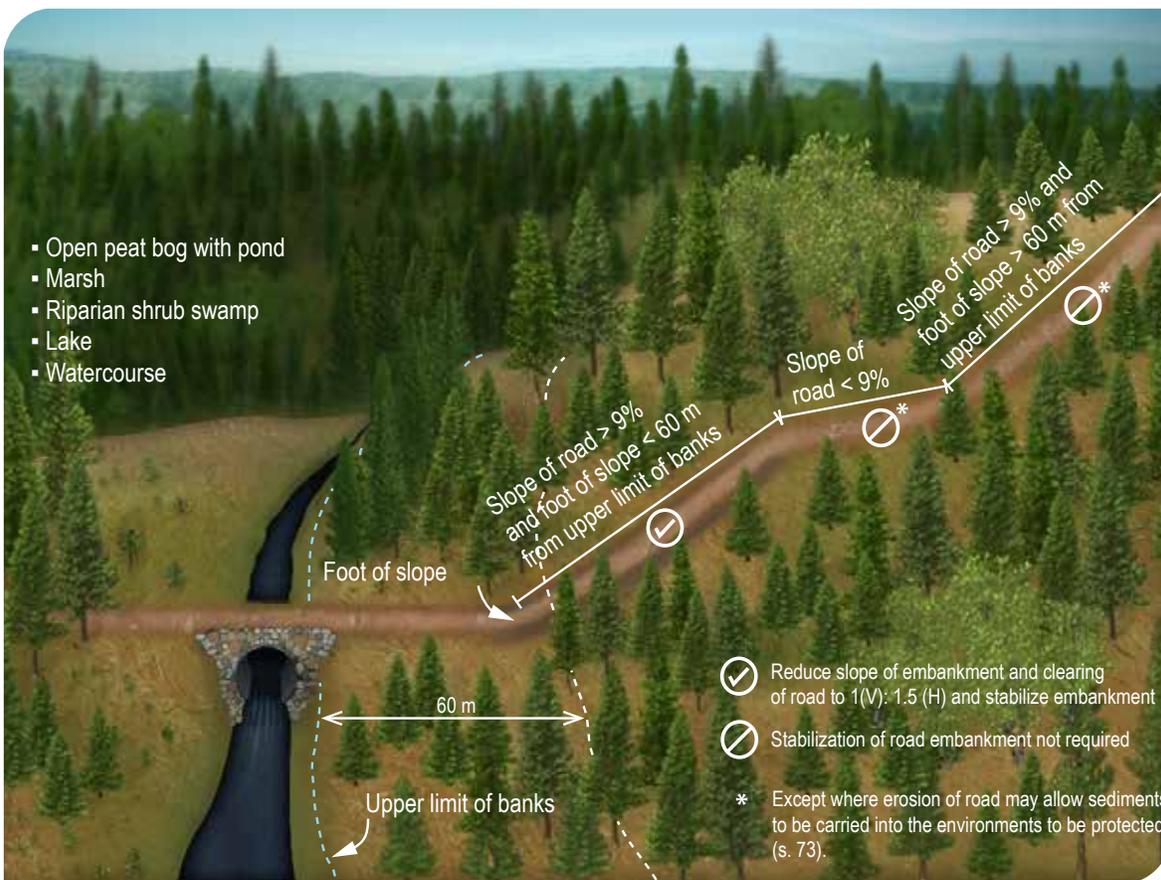


Figure 76C Stabilization of the embankment of a road with a slope greater than 9%

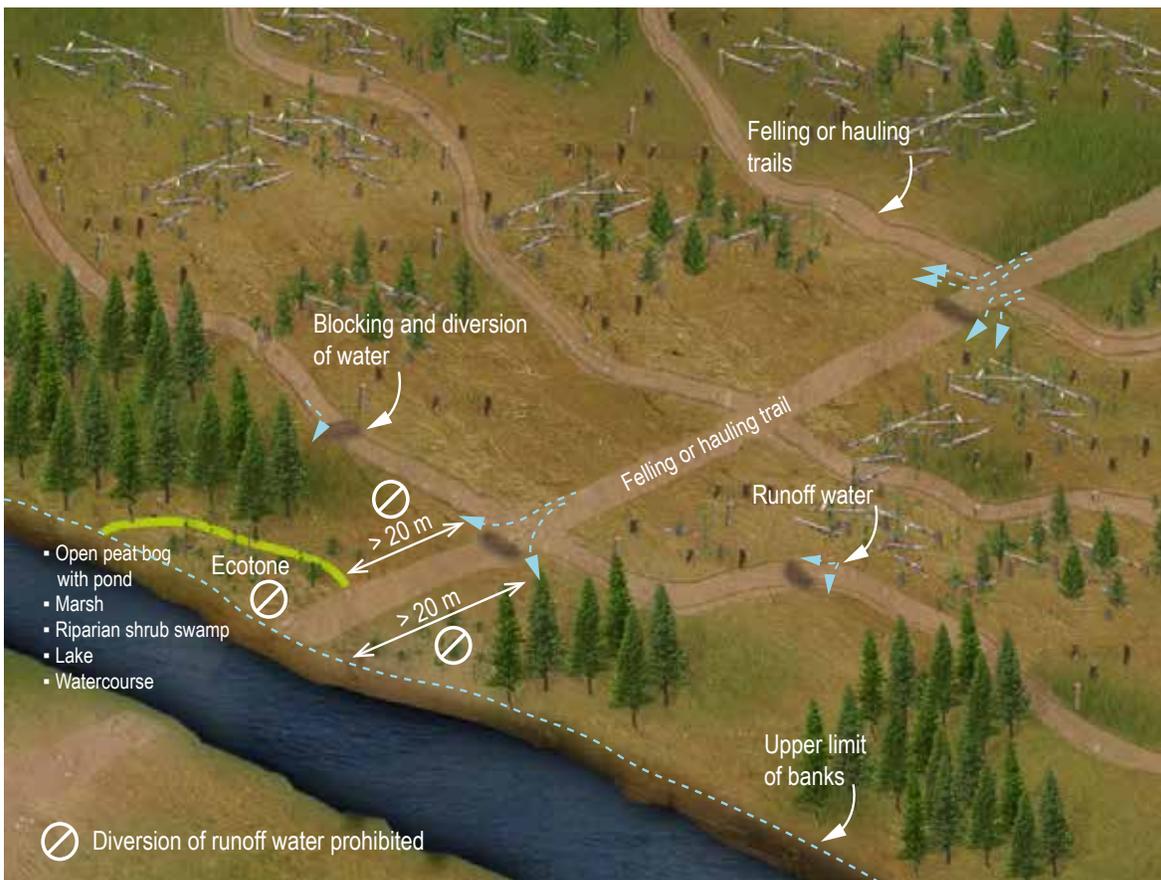


Figure 77 Blocking and diversion of water flowing in a felling or hauling trail

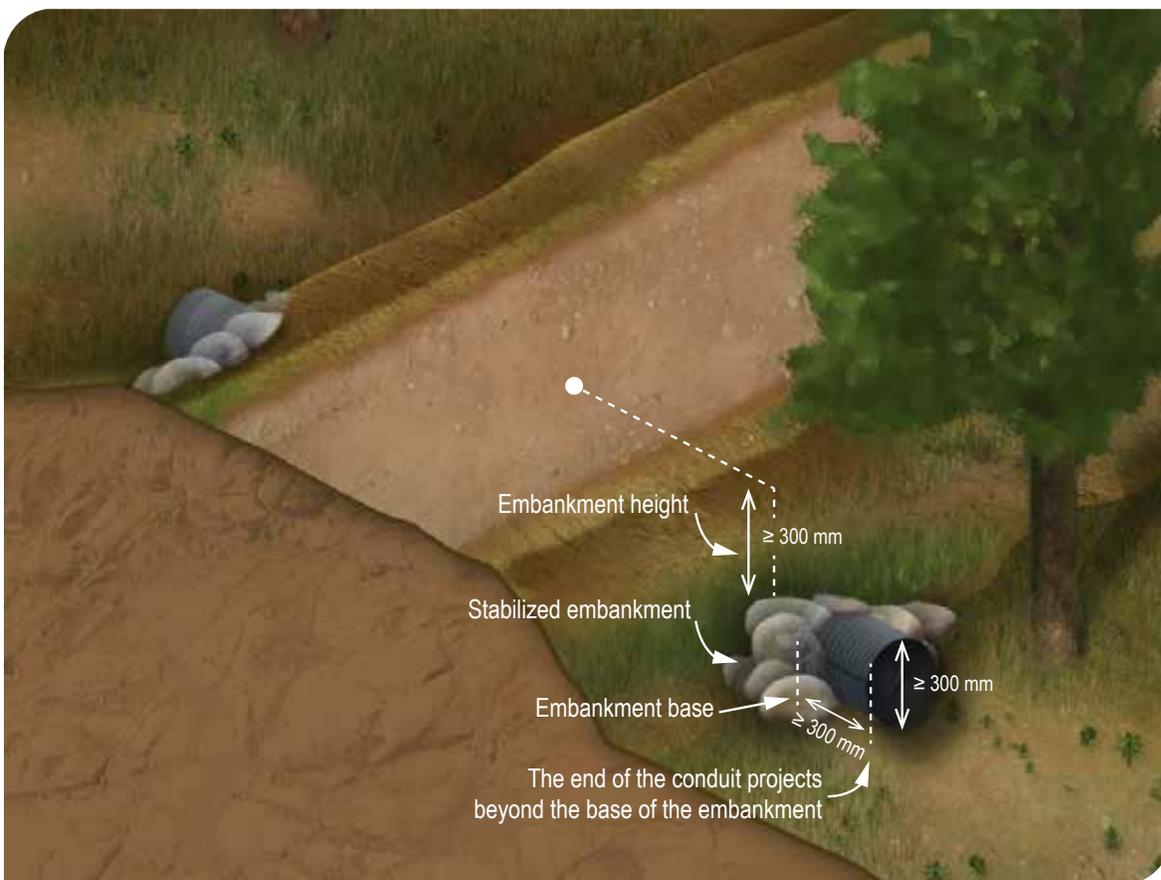


Figure 79 Characteristics of drainage channel installation



Figure 81 Work to be carried out for permanent closure of a road

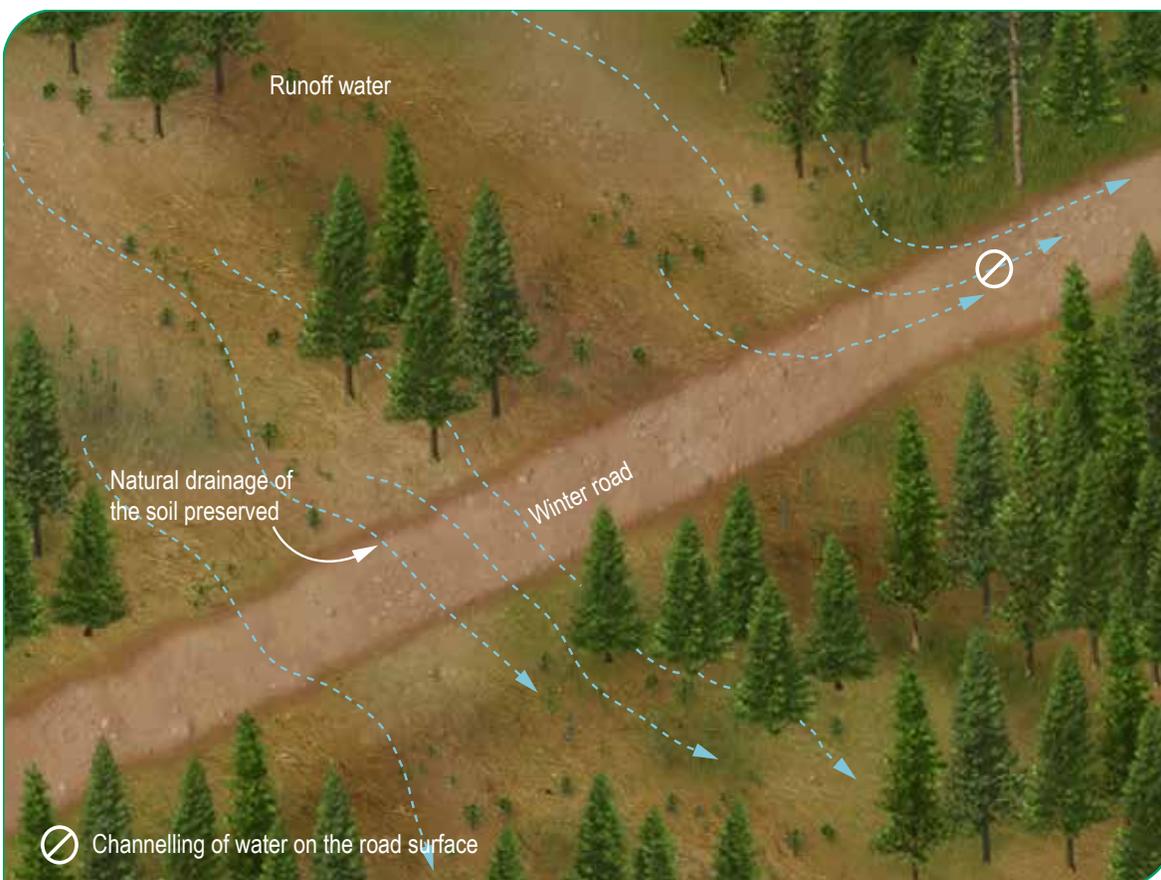


Figure 82 Preserving the natural drainage of the soil on a winter road

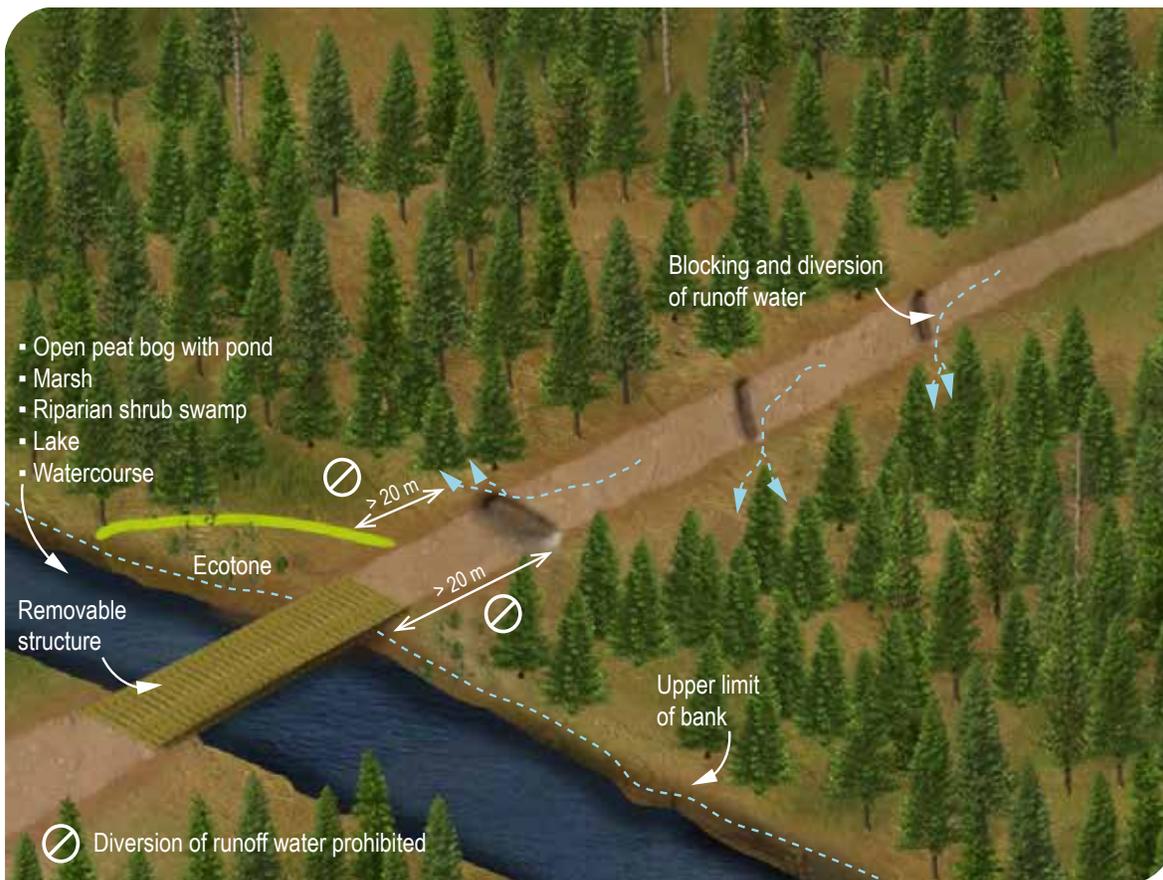


Figure 83 Blocking and diversion of runoff water flowing on the surface of a winter road



Figure 85 Control of motor vehicle access to the main building of a sugar bush

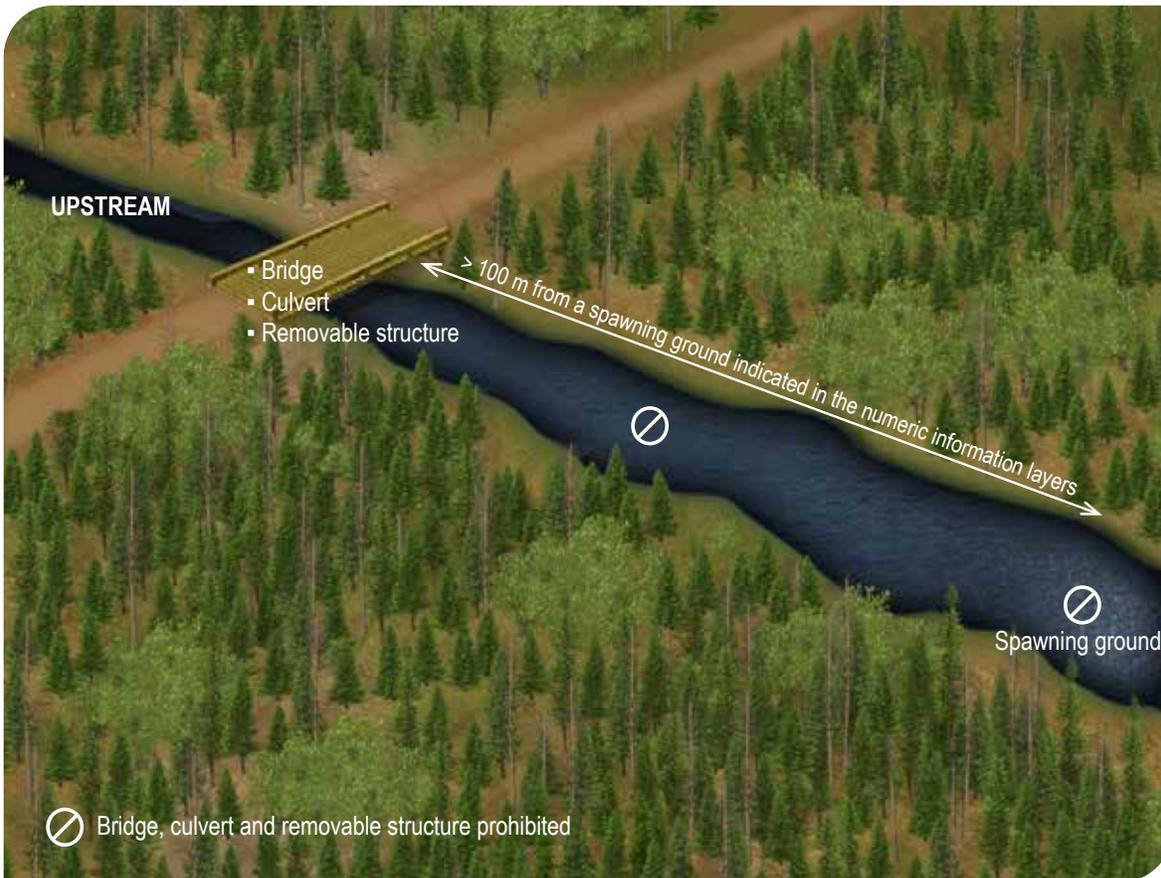


Figure 89 Distance between a spawning ground and a bridge, culvert or removable structure

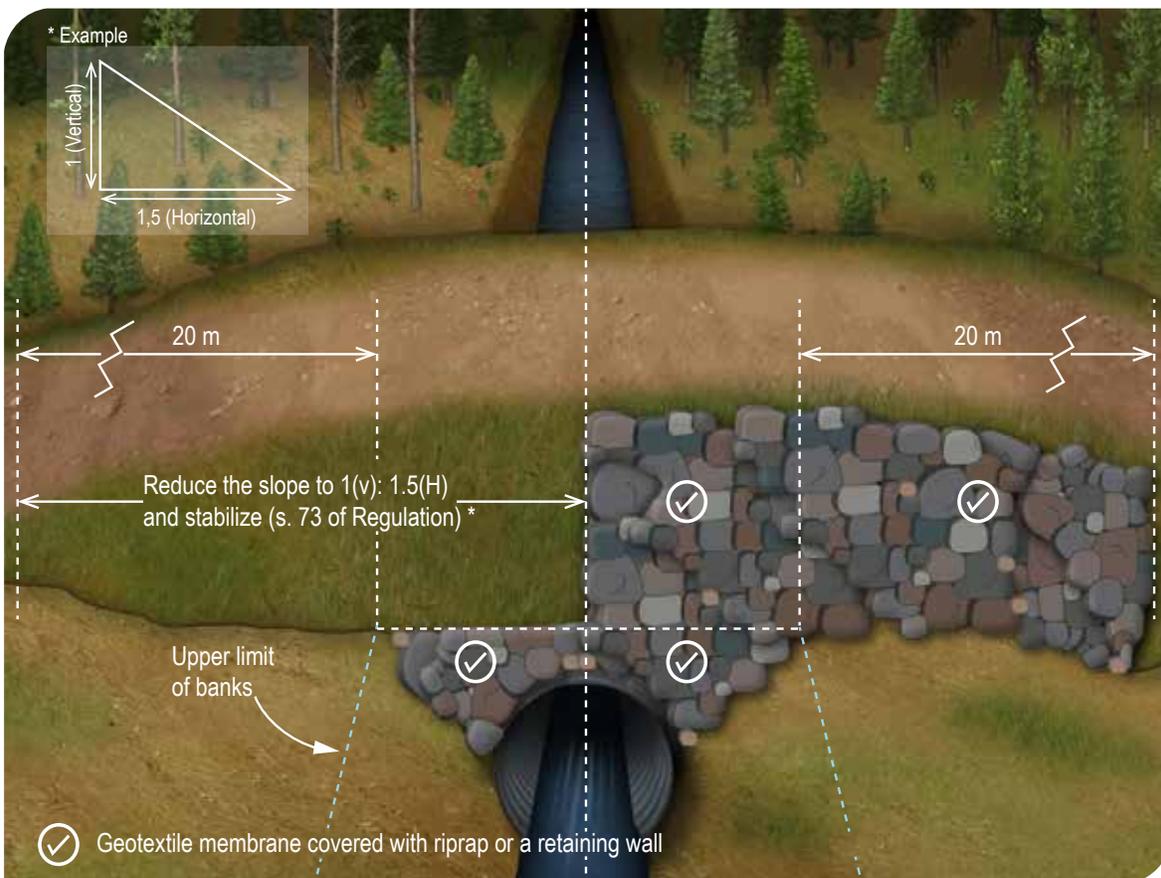


Figure 95A Stabilization of the embankment of a road that crosses a watercourse

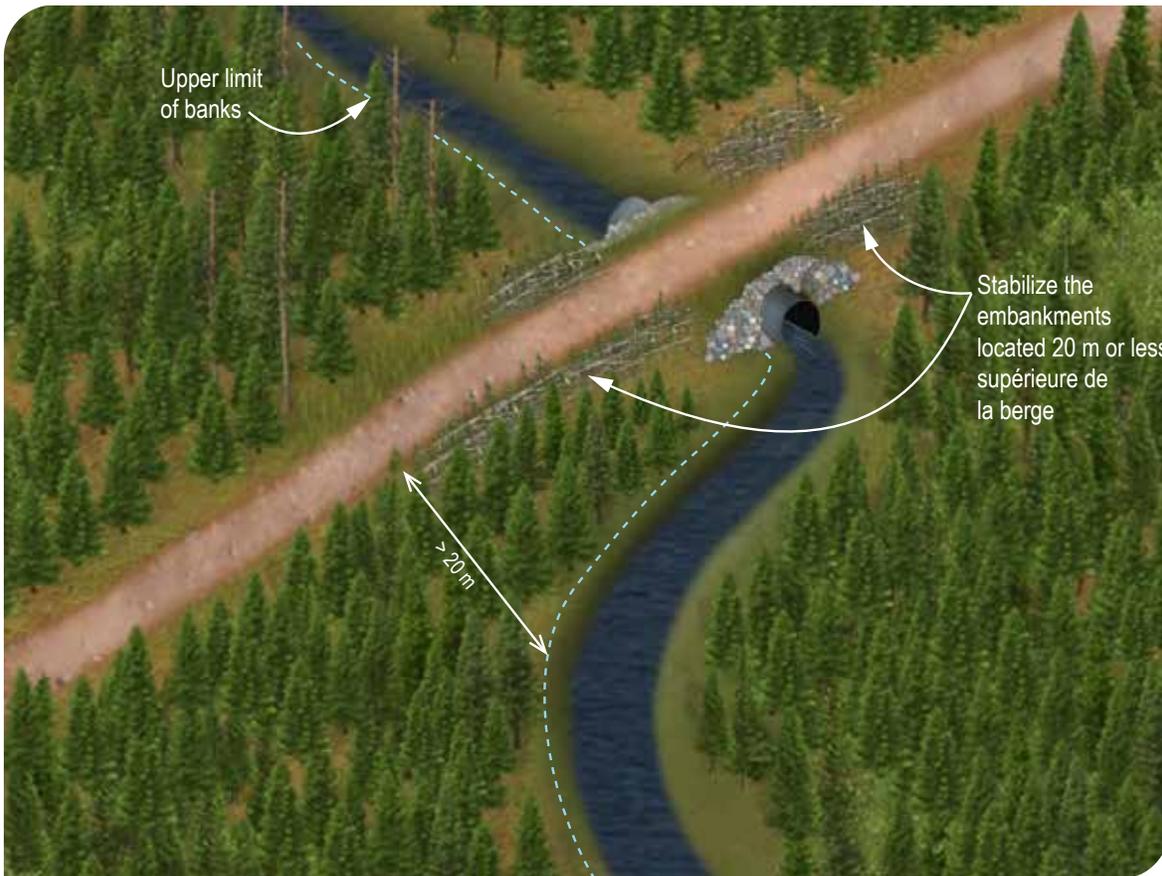


Figure 95B Stabilization of embankments located 20 m or less from a watercourse

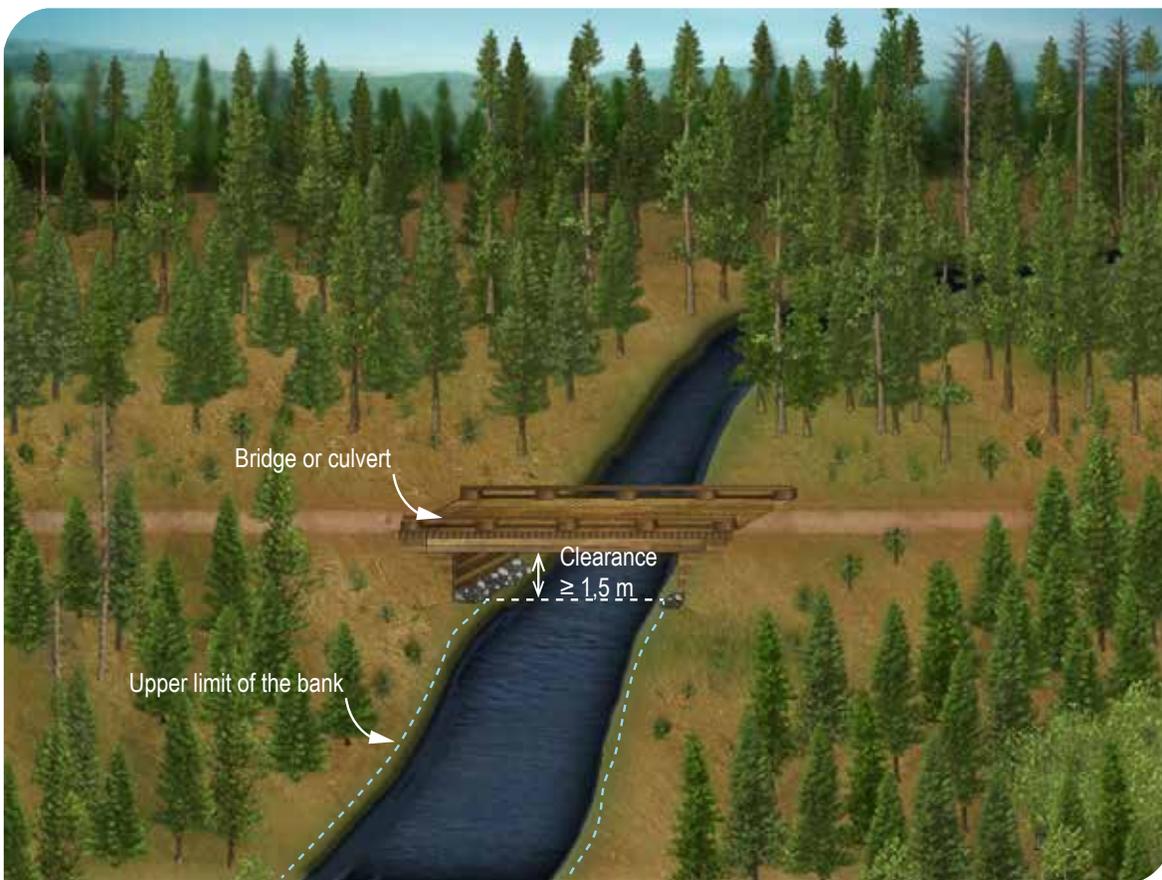


Figure 98 Clearance required for boats

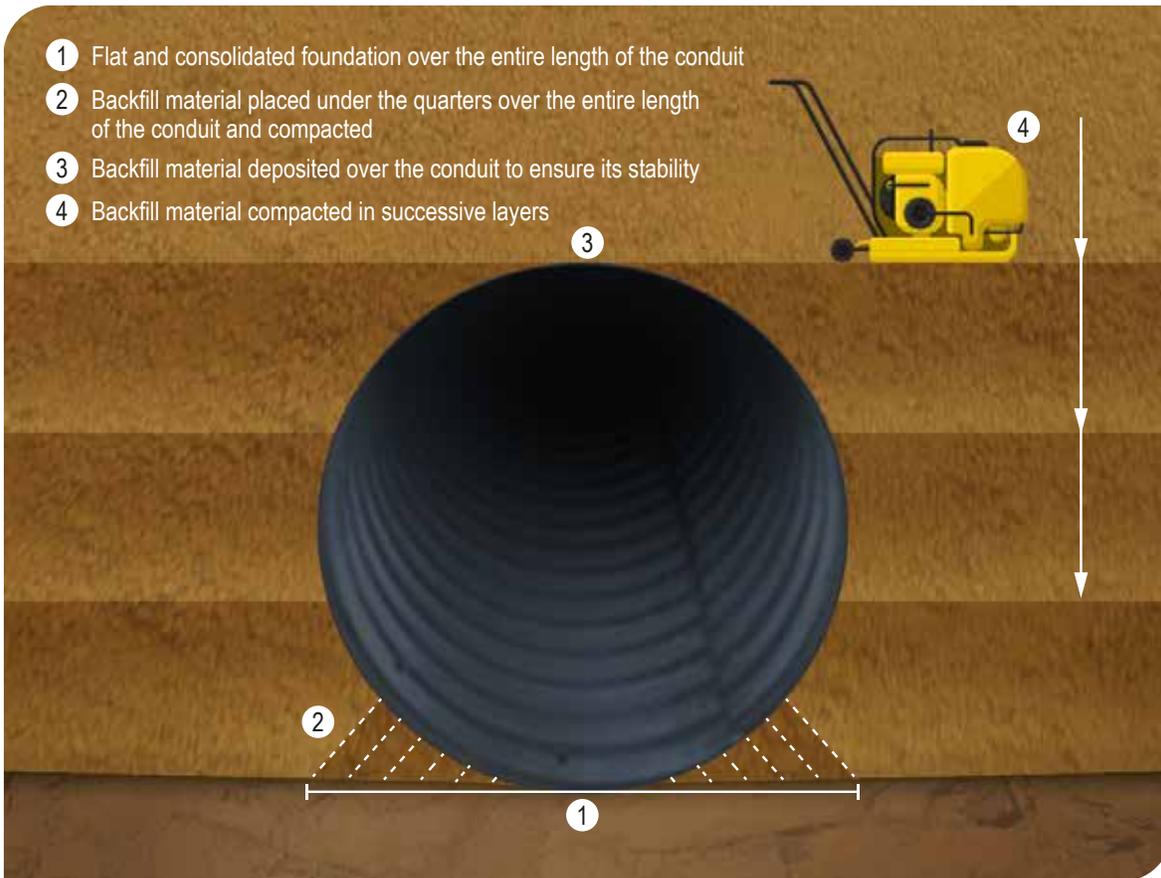


Figure 99 Backfilling a duct



Figure 100A End of a conduit or arch extending from the base of the embankment

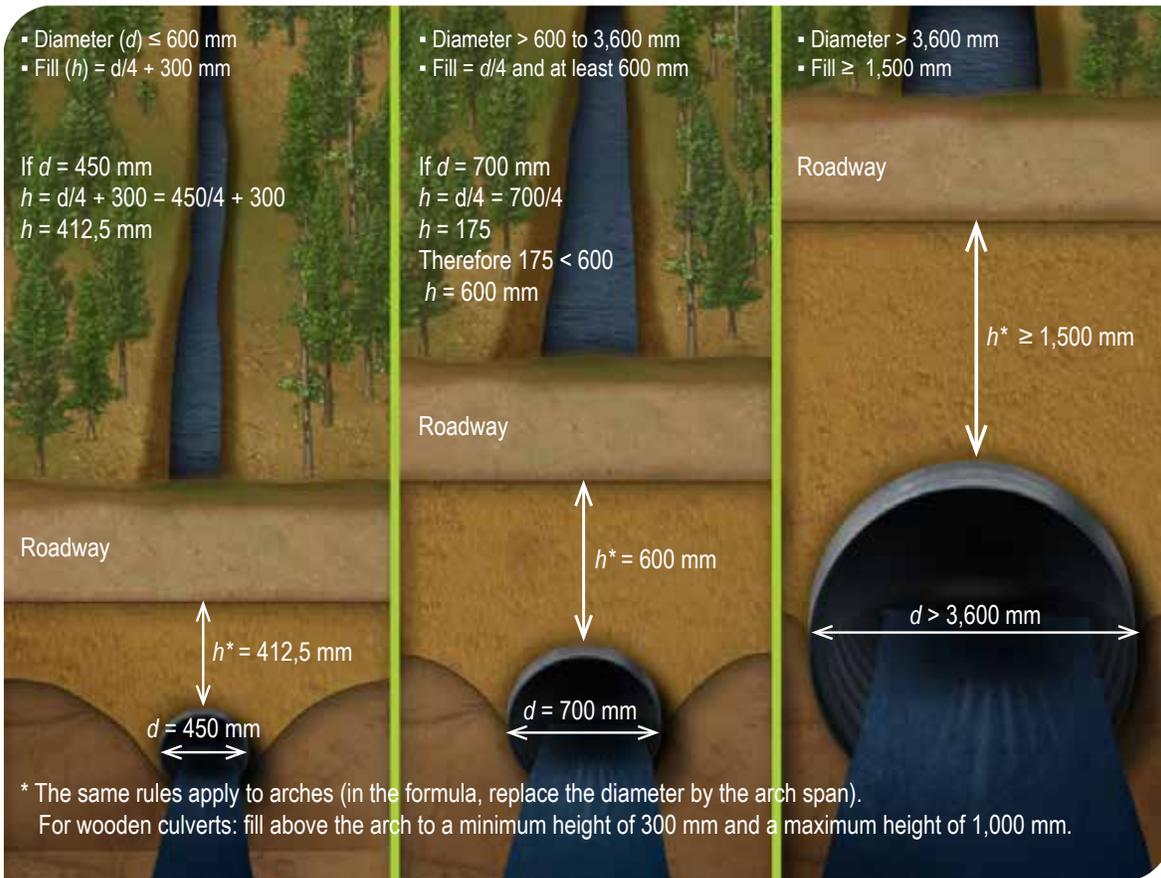


Figure 100B Minimum thickness of fill above a conduit or arch, based on its diameter or span



Figure 102A Culvert with parallel conduits of different diameters



Figure 102B Distance between the conduits of a culvert with parallel conduits

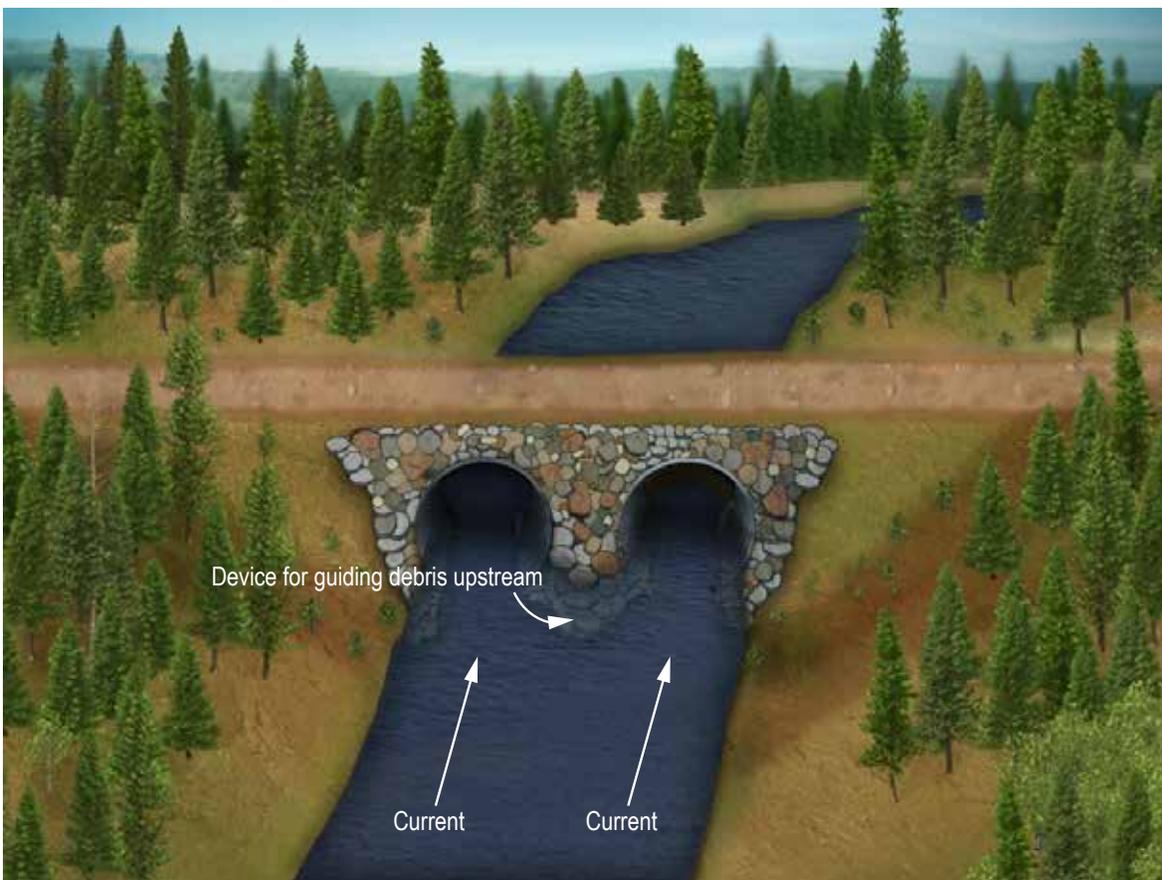


Figure 102C Culvert with parallel conduits and an upstream debris guide

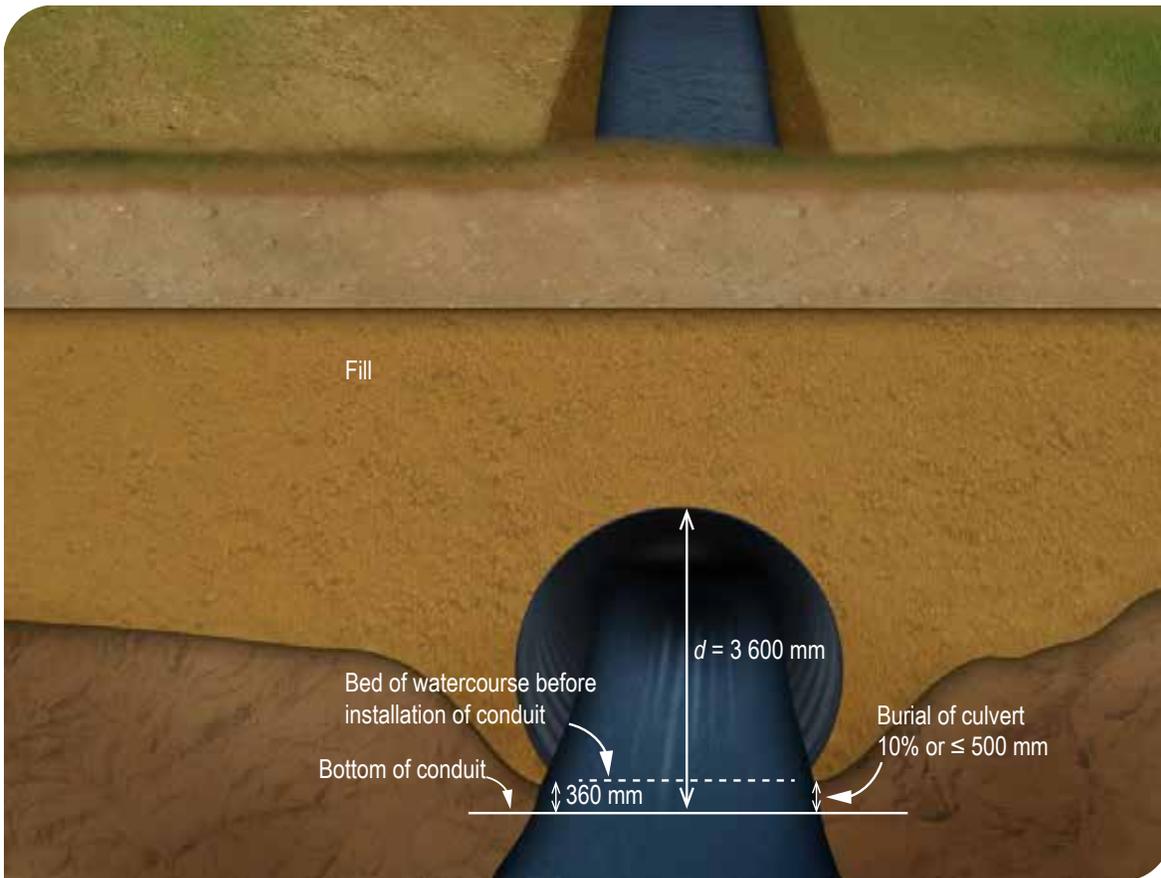


Figure 104A Burial of a culvert conduit in the bed of a watercourse where it is not necessary to ensure the free flow of fish

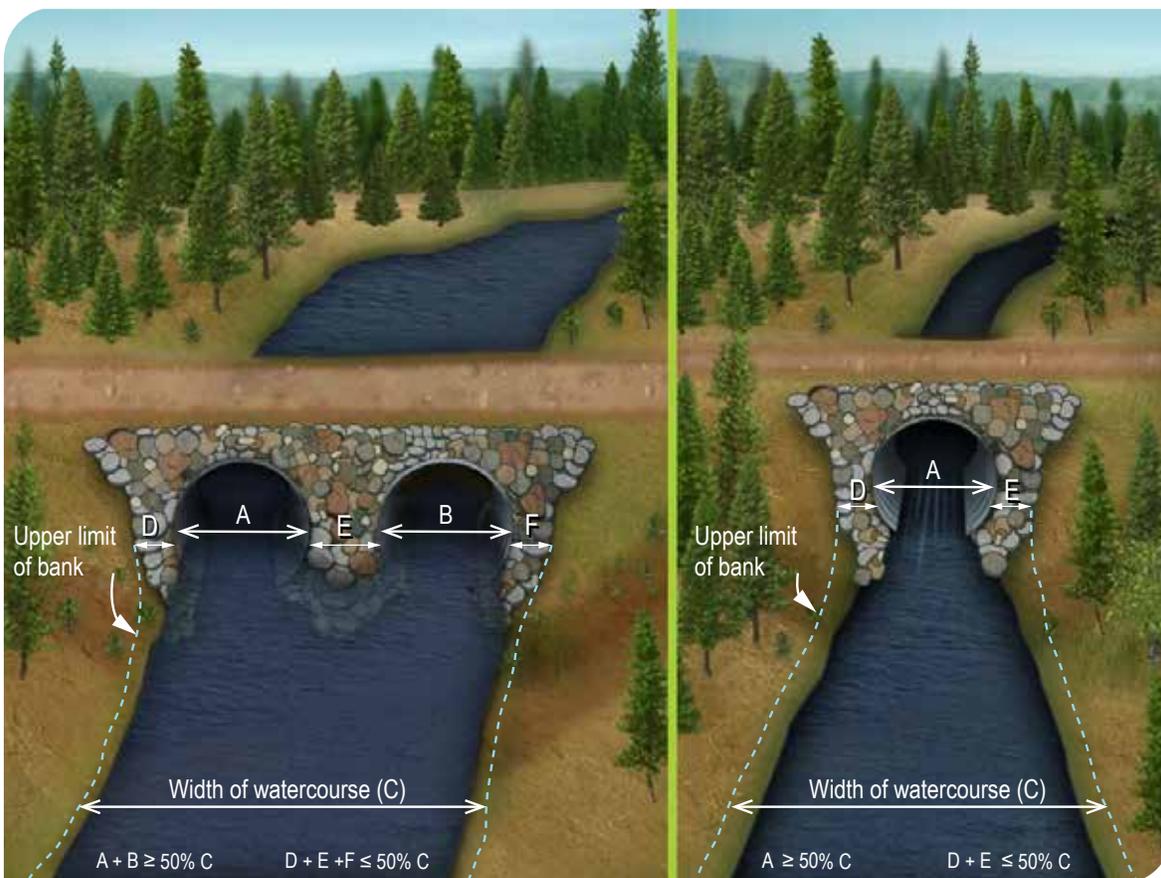


Figure 104B Maximum reduction of the width of a watercourse where it is not necessary to ensure the free flow of fish

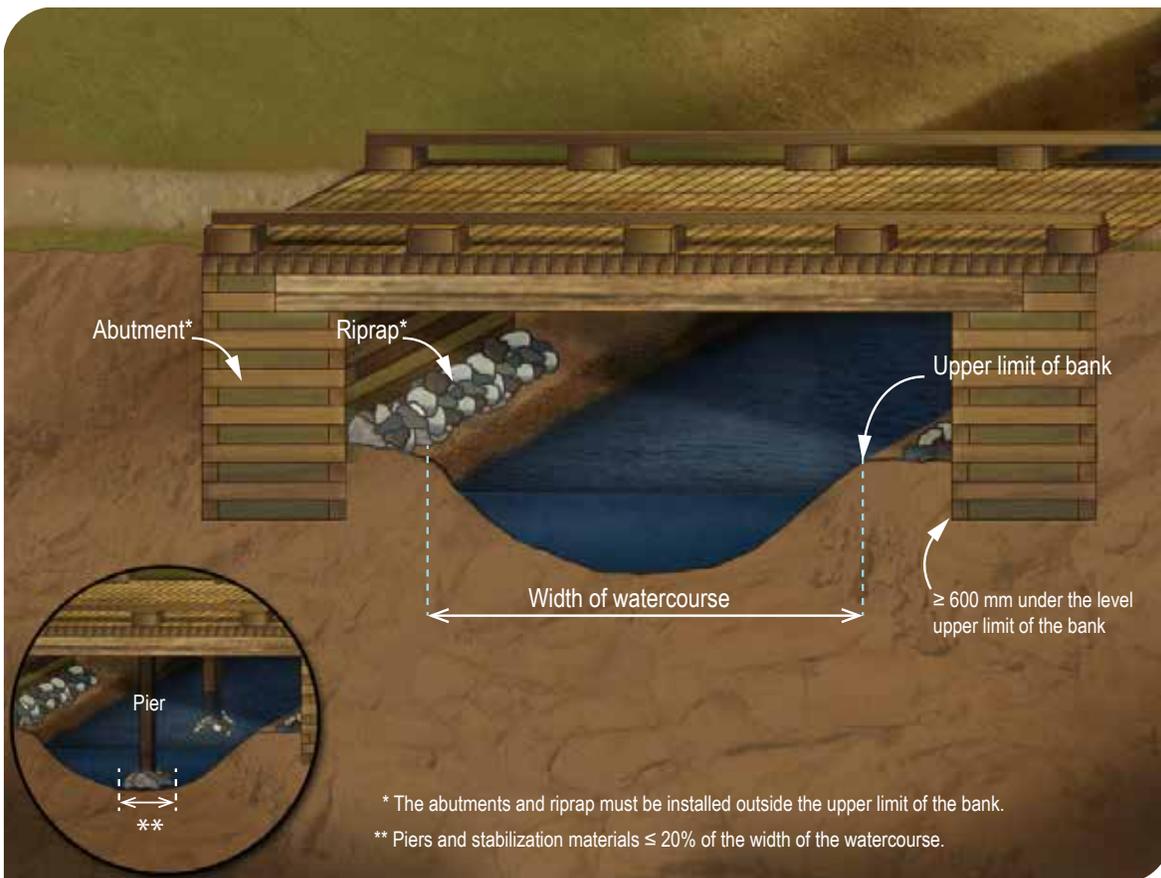


Figure 108A Characteristics of a bridge installation in relation to the upper limit of the banks

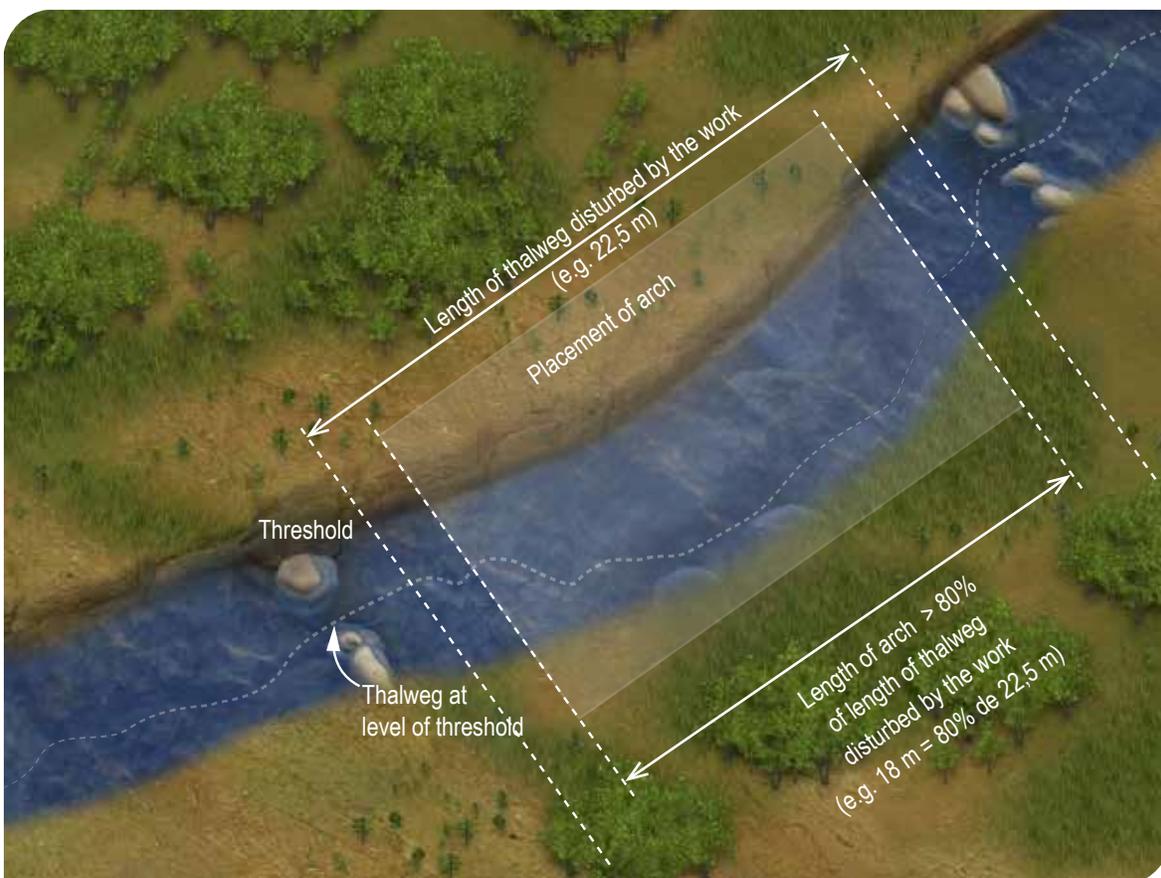


Figure 108B Minimum length of the arch compared to the length of the thalweg disturbed by the work

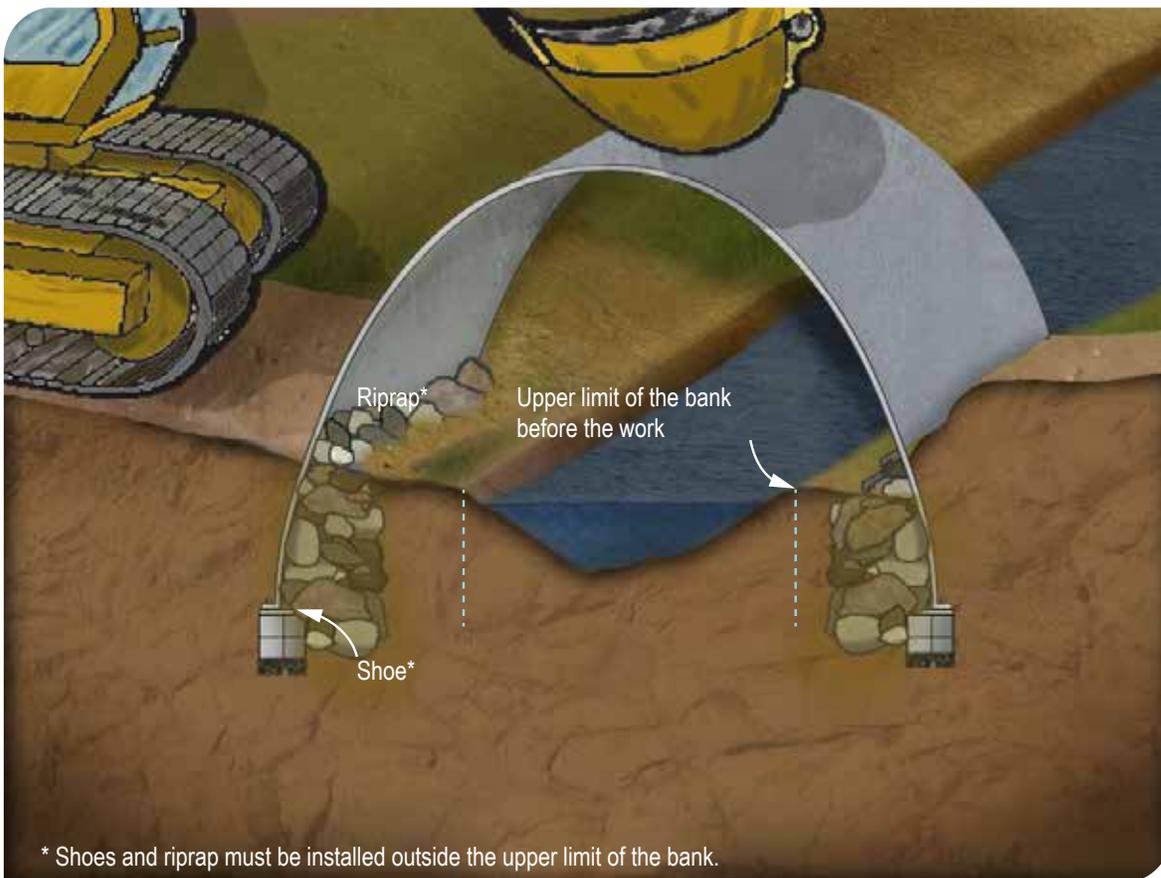


Figure 108C Characteristics of an arch installation in relation to the upper limit of the banks

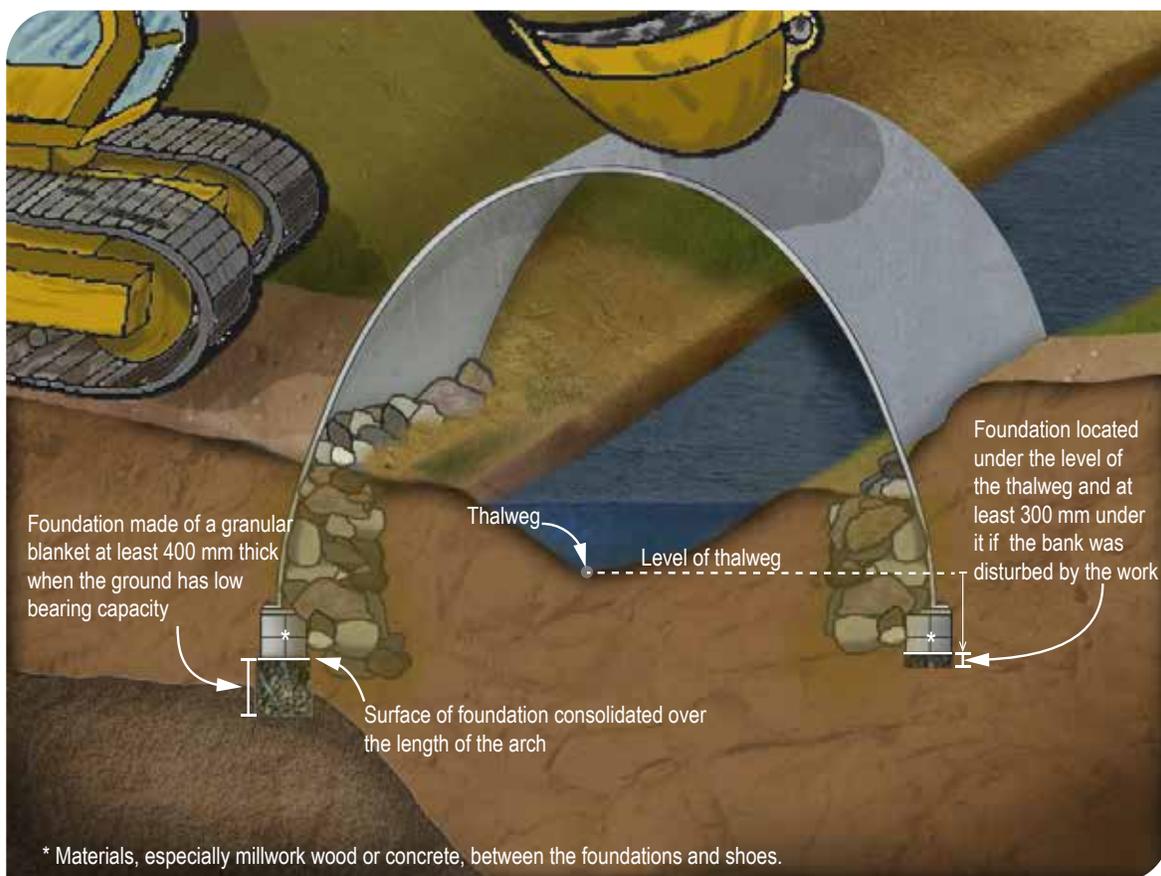


Figure 108D Characteristics of the foundations of an arch

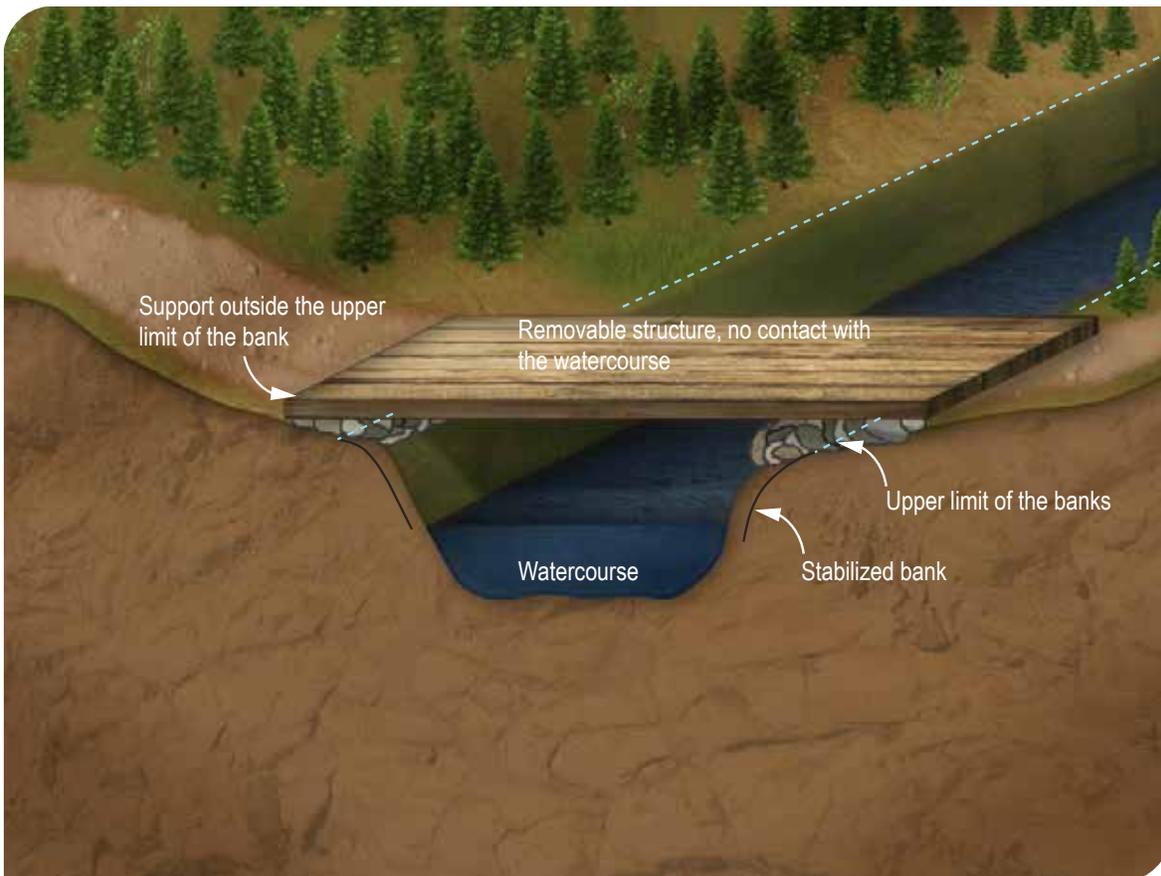


Figure 111A Supports for a removable structure outside the upper limit of the banks

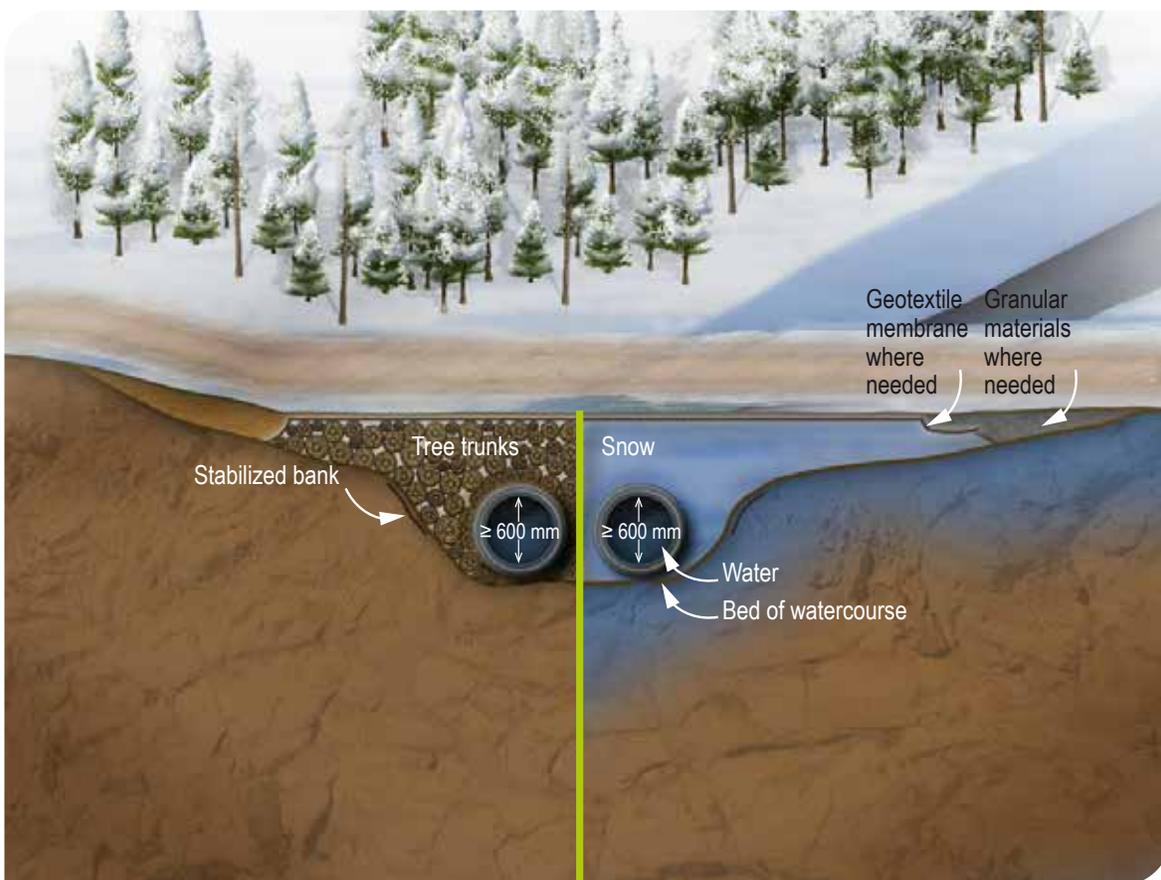


Figure 111B Removable structure composed of one or more conduits of at least 600 mm

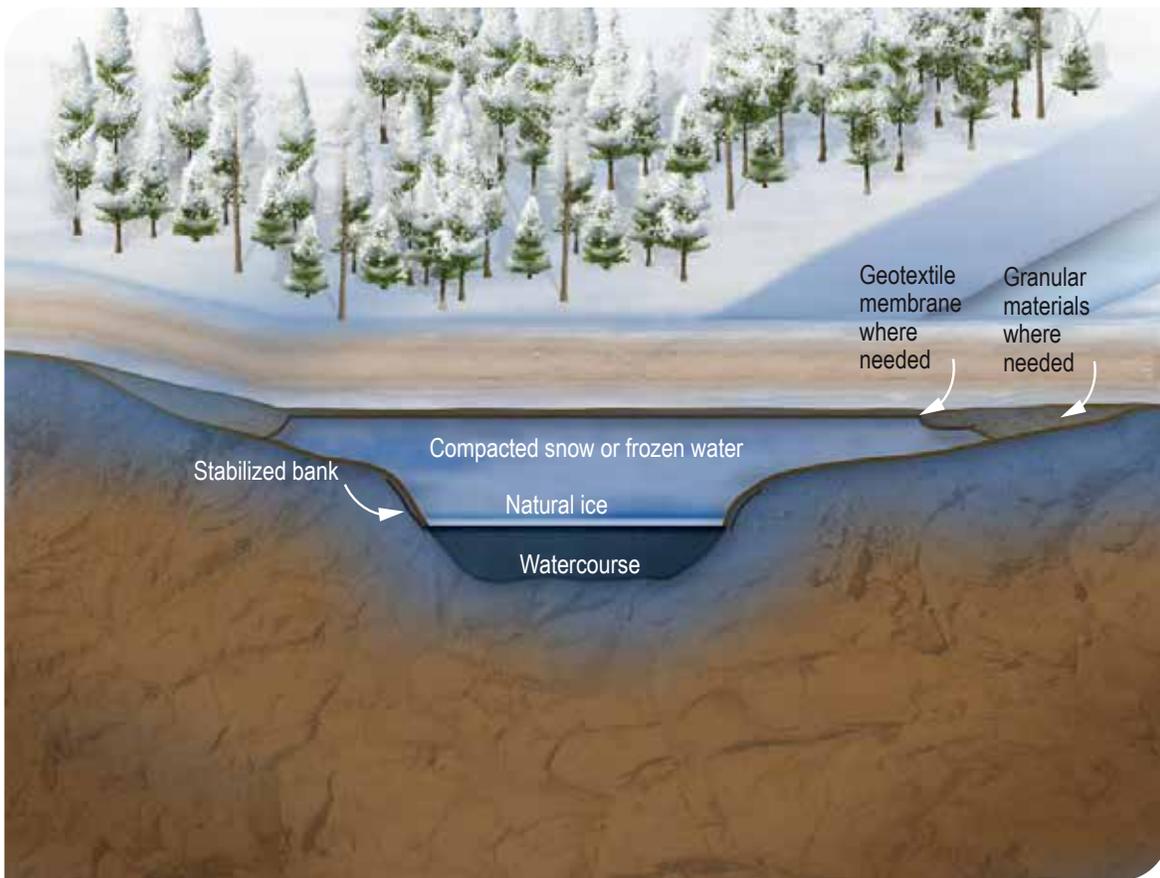


Figure 111C Removable structure composed of compacted snow or frozen water

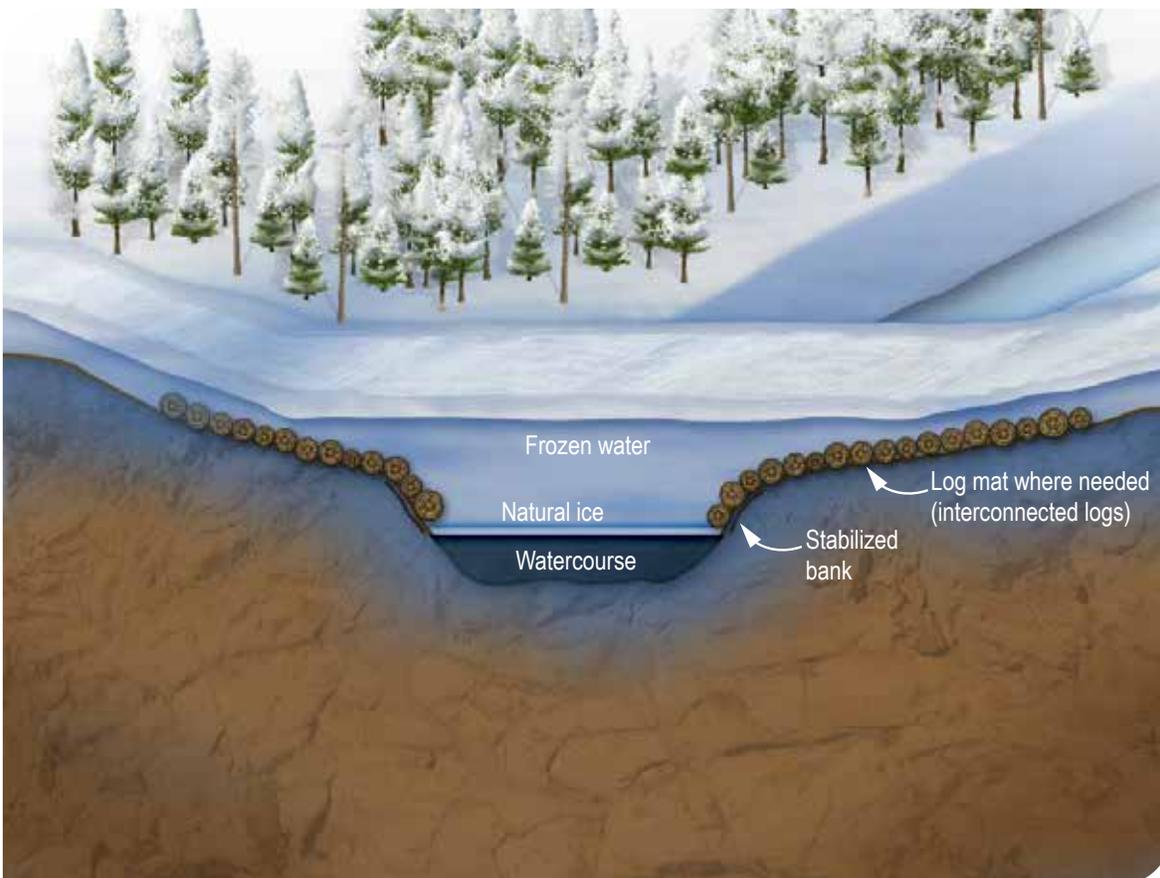


Figure 111D Ice bridge

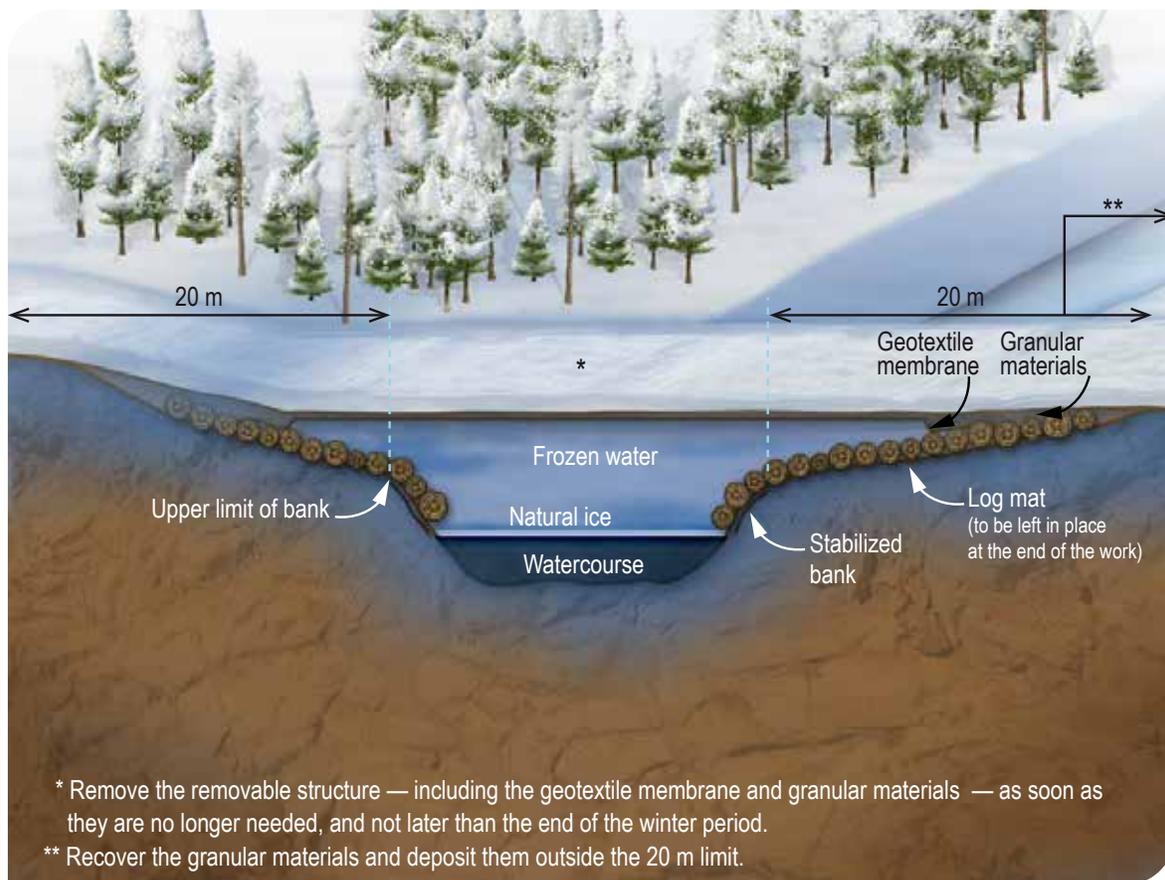


Figure 112 Timeframe for removing any of the removable structures described in the second paragraph of section 111

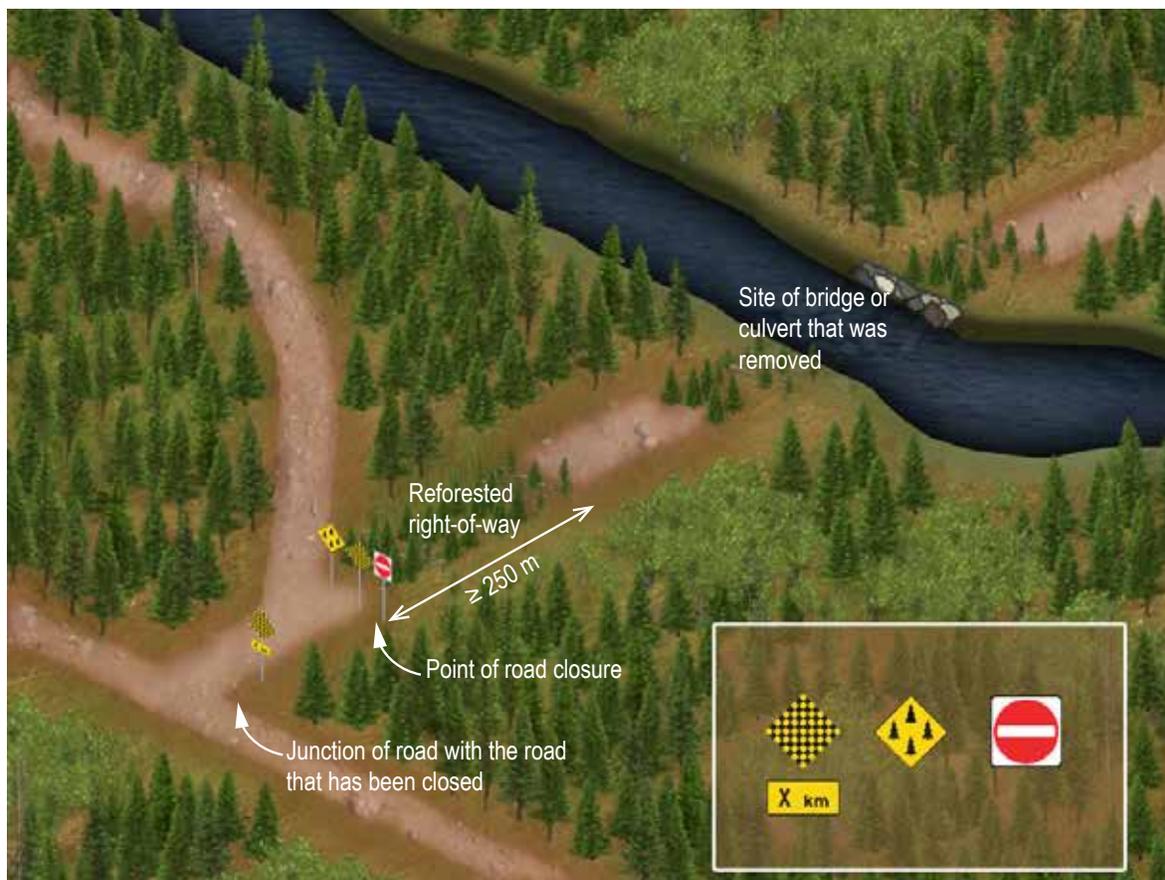


Figure 115A Road sign indicating permanent closure of a road

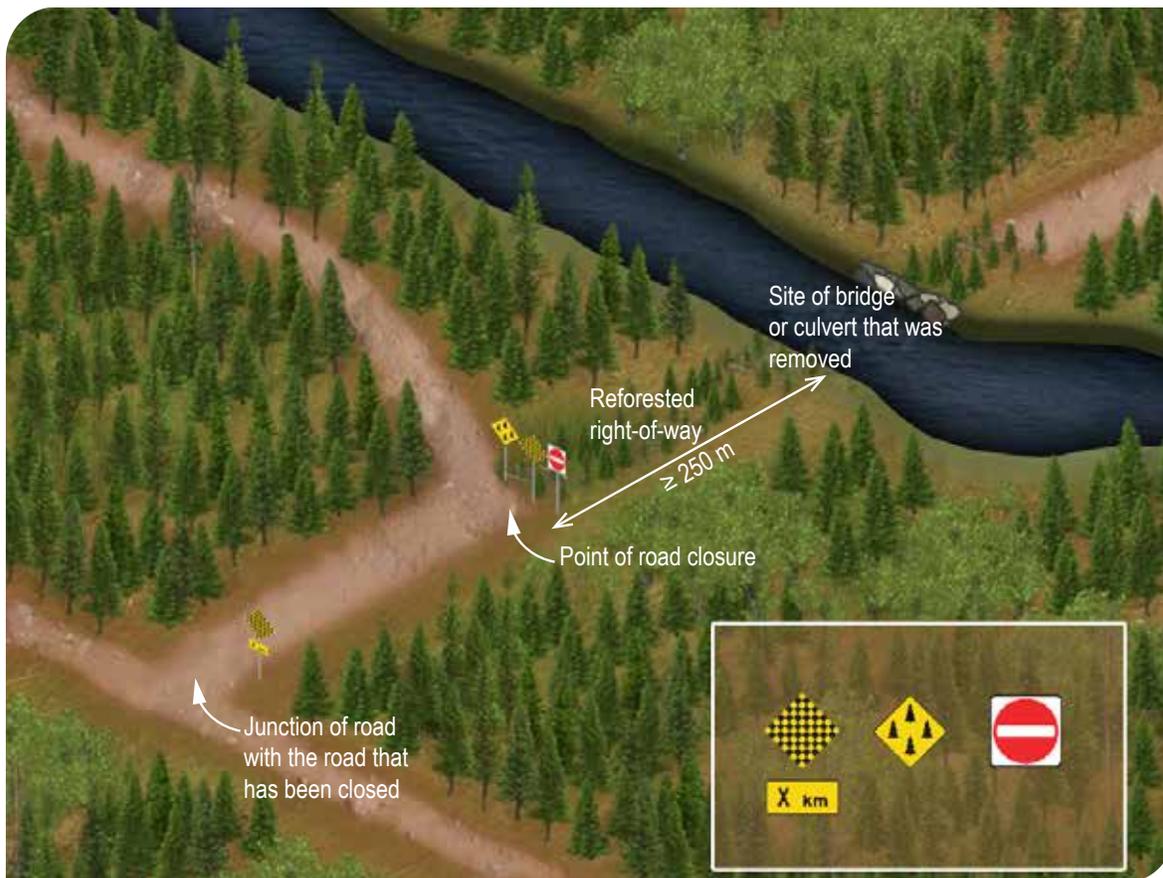


Figure 115B Road sign indicating permanent closure of a road



Figure 115C Road sign indicating temporary closure of a road

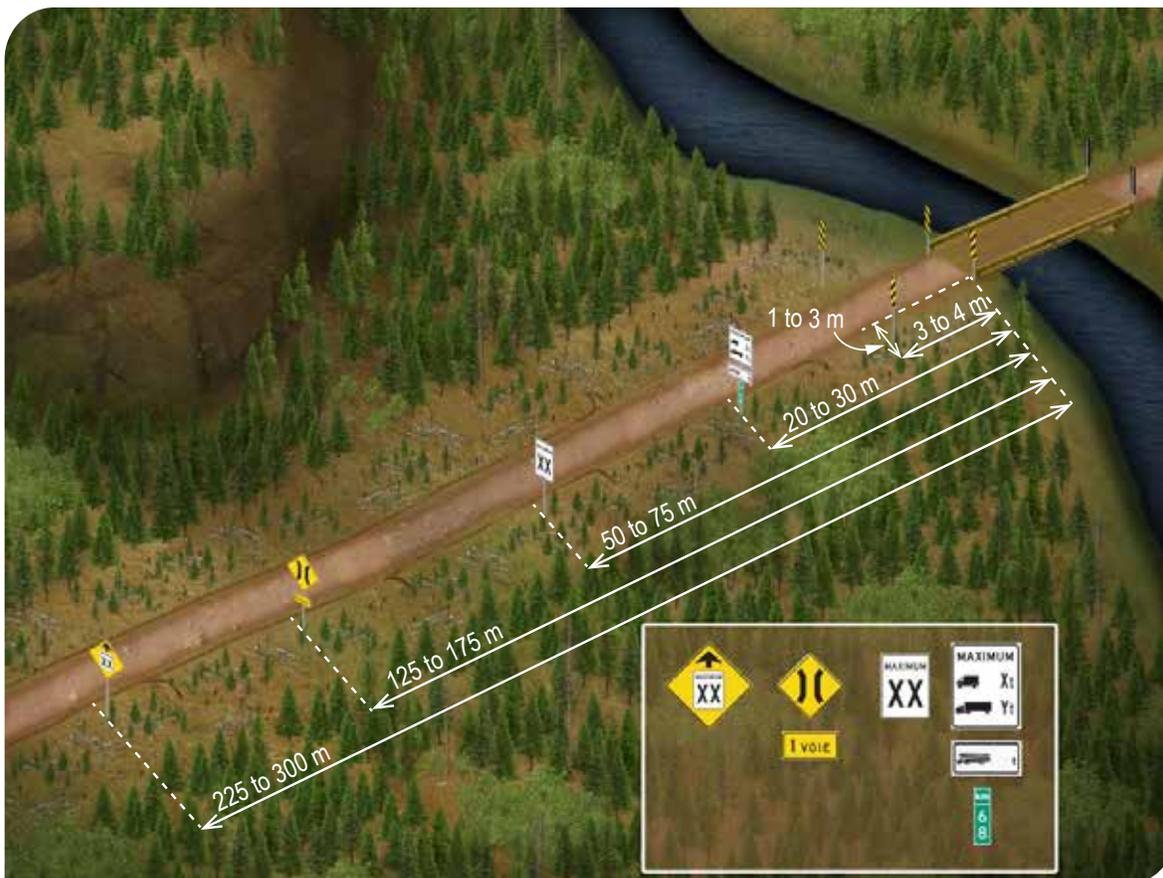


Figure 117 Road signs near a bridge

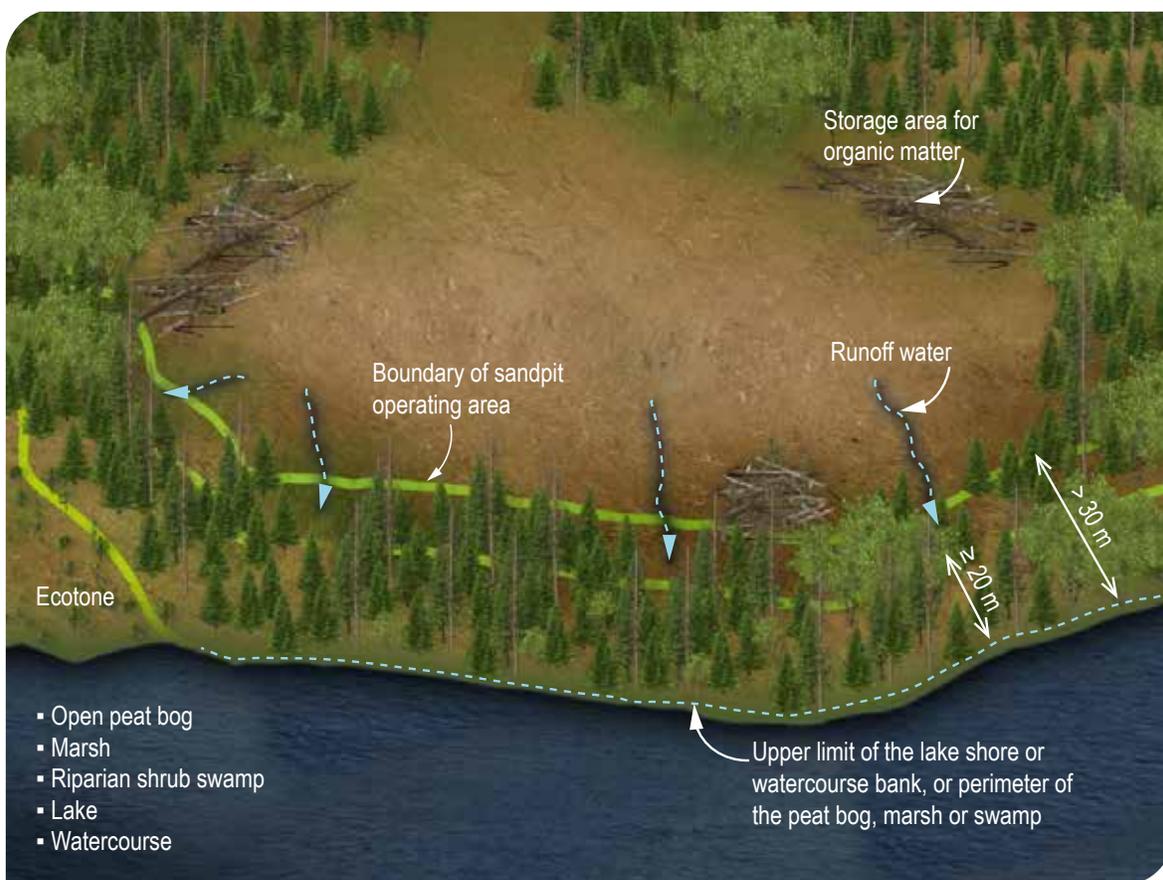


Figure 119 Distance between a sandpit and a wetland or aquatic environment

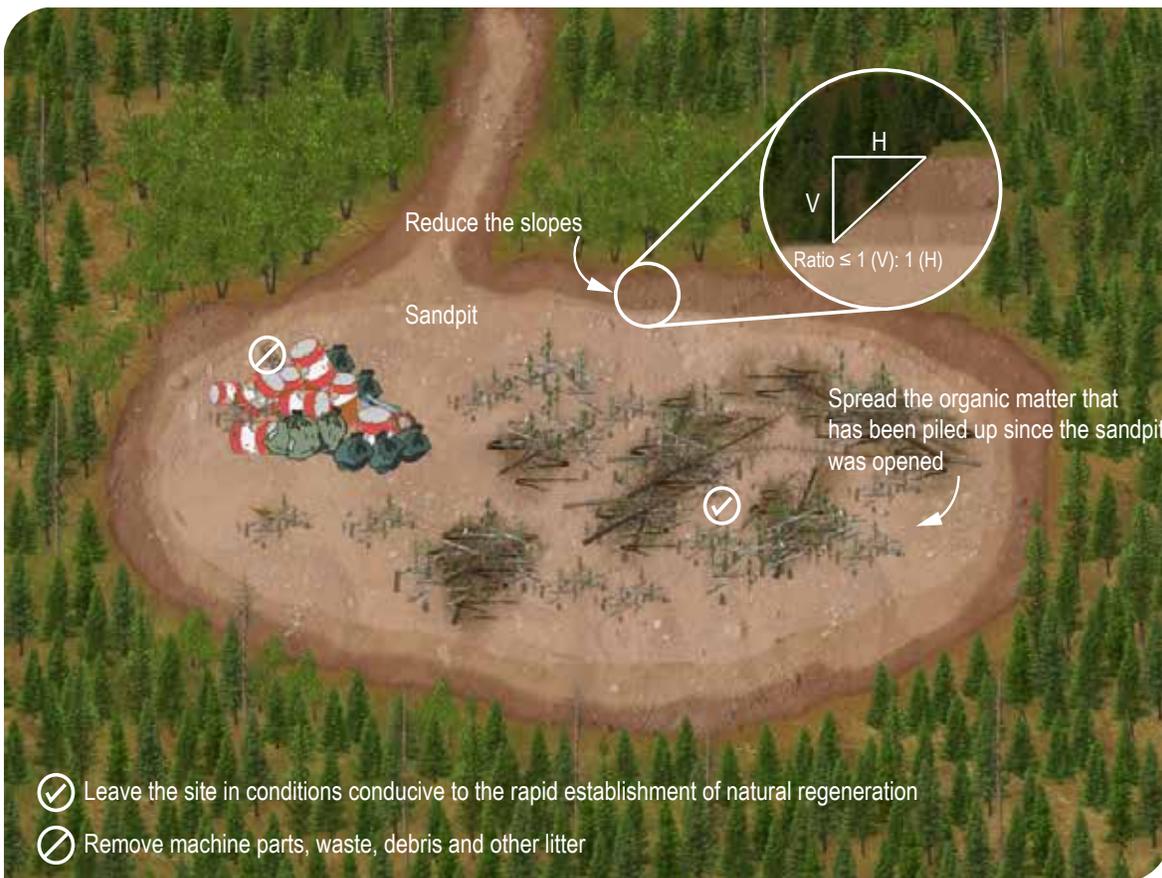


Figure 120 Restoration of a sandpit before expiry of the lease to mine surface mineral substances

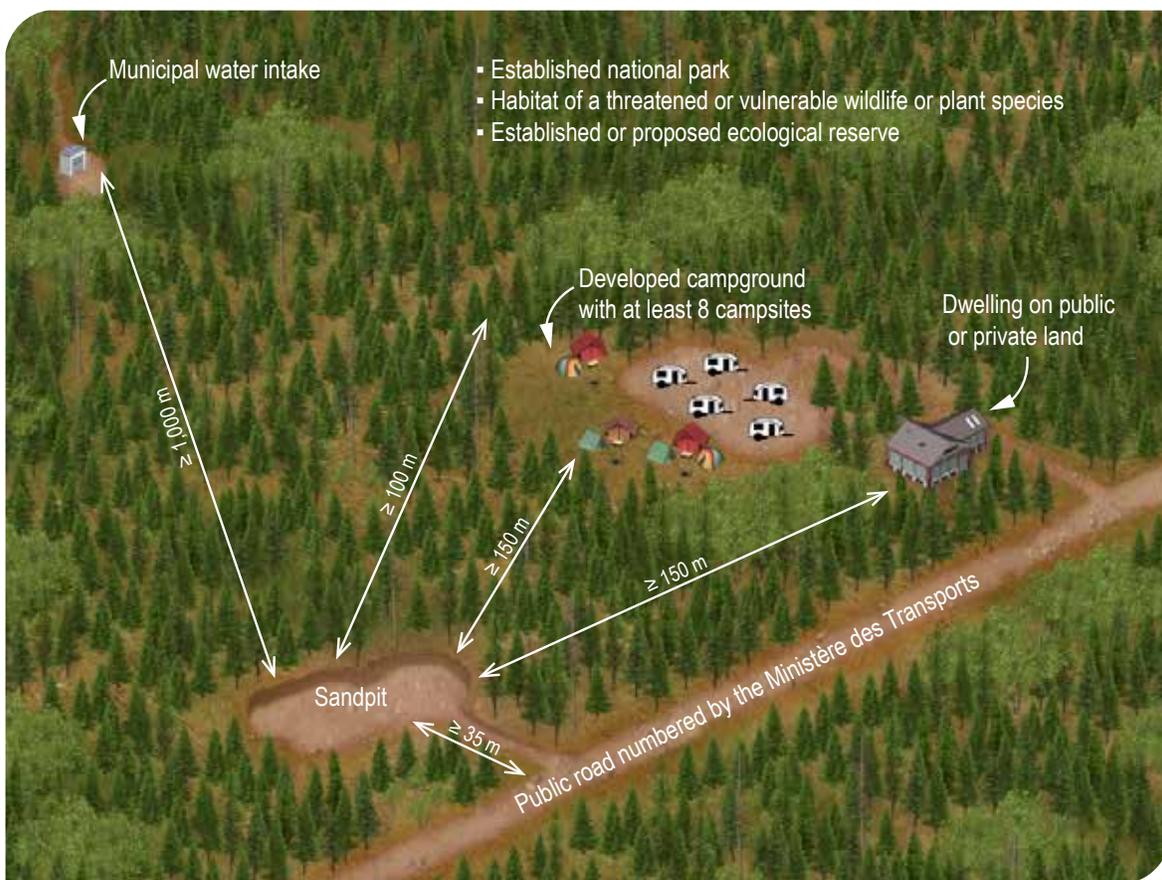


Figure 121 Distance between a sandpit and different places or territories



Figure 123 Operation of a sandpit above the level of groundwater

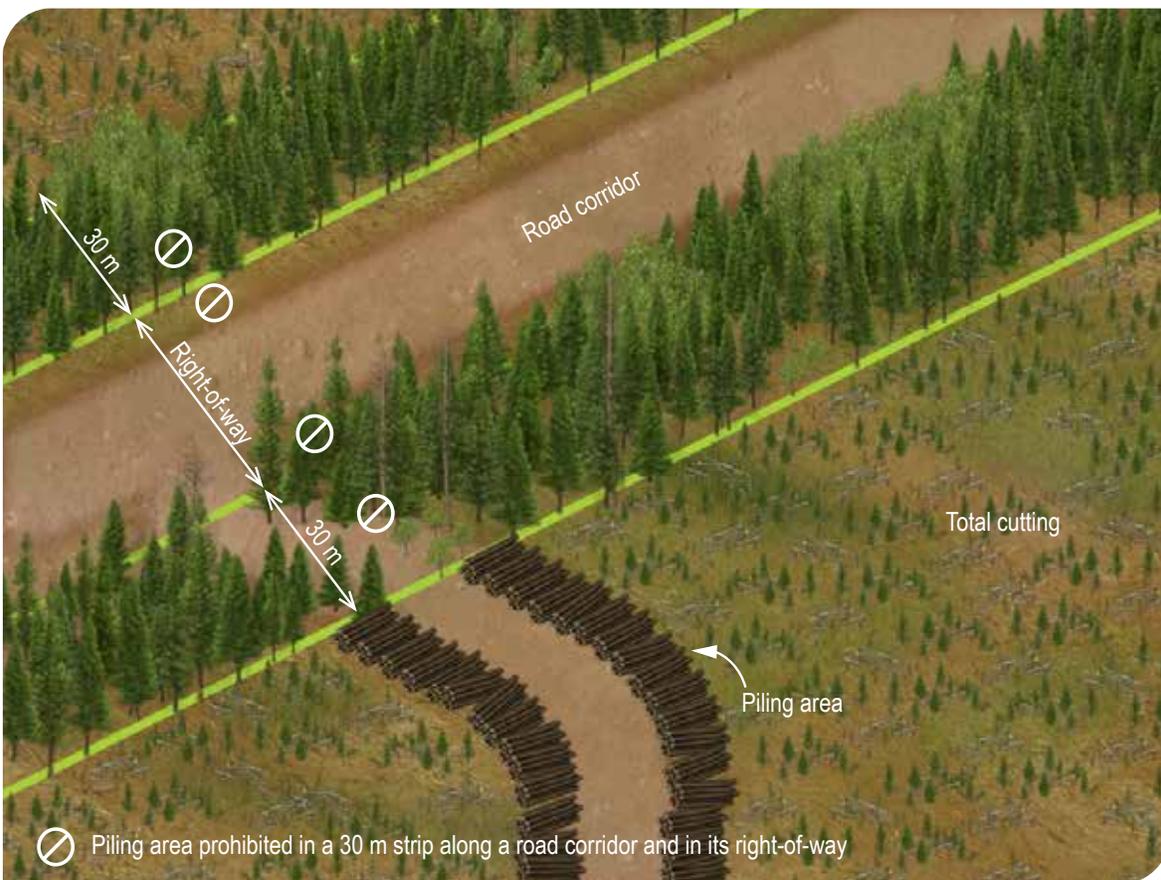


Figure 124A Distance between a piling area and a road corridor

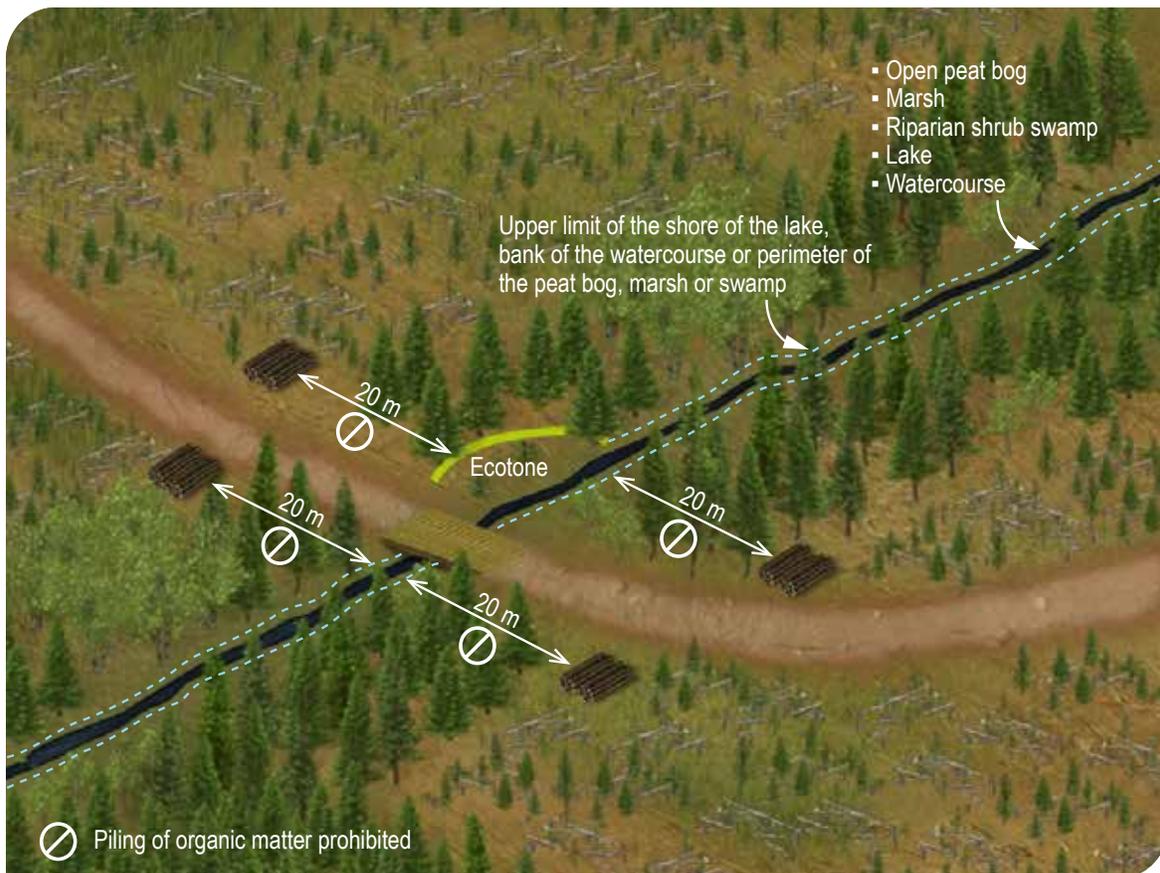


Figure 124B Distance between a piling area and a wetland or aquatic environment

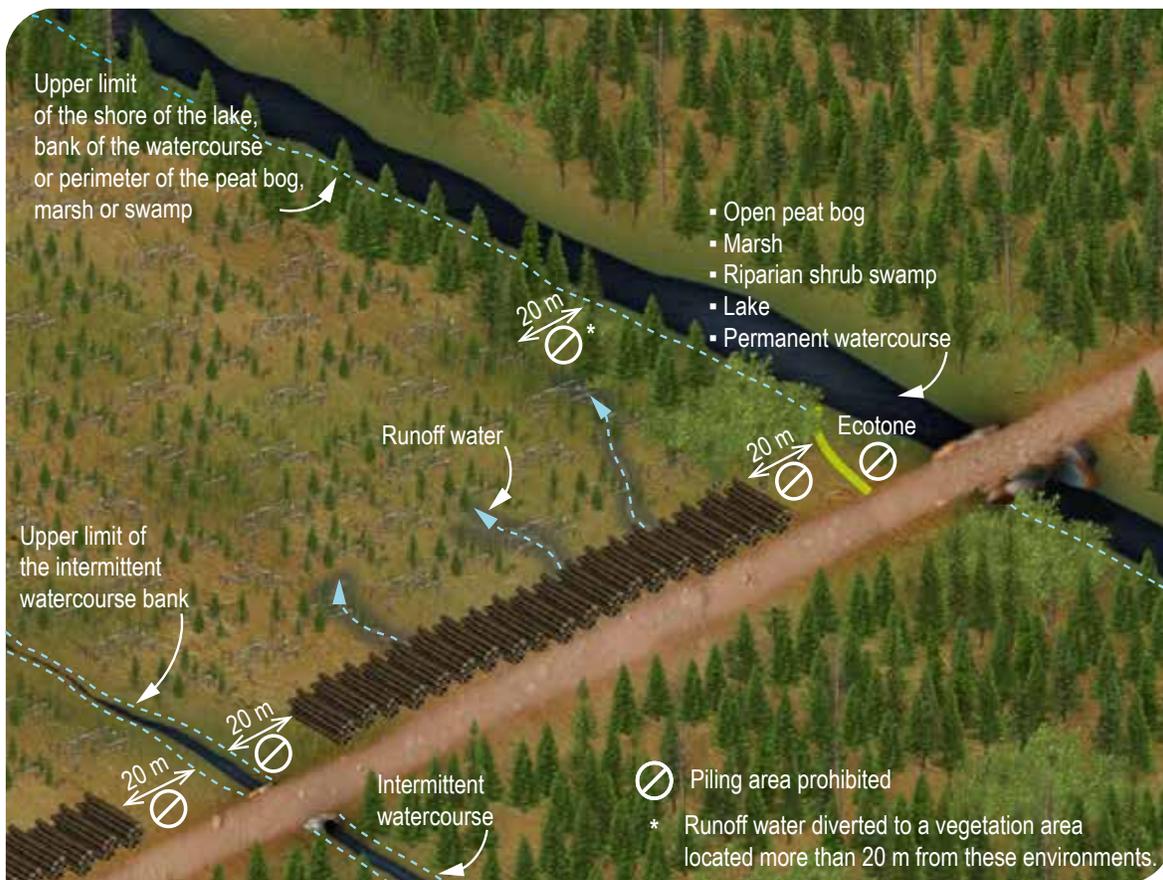


Figure 124C Diversion of runoff water from a piling area

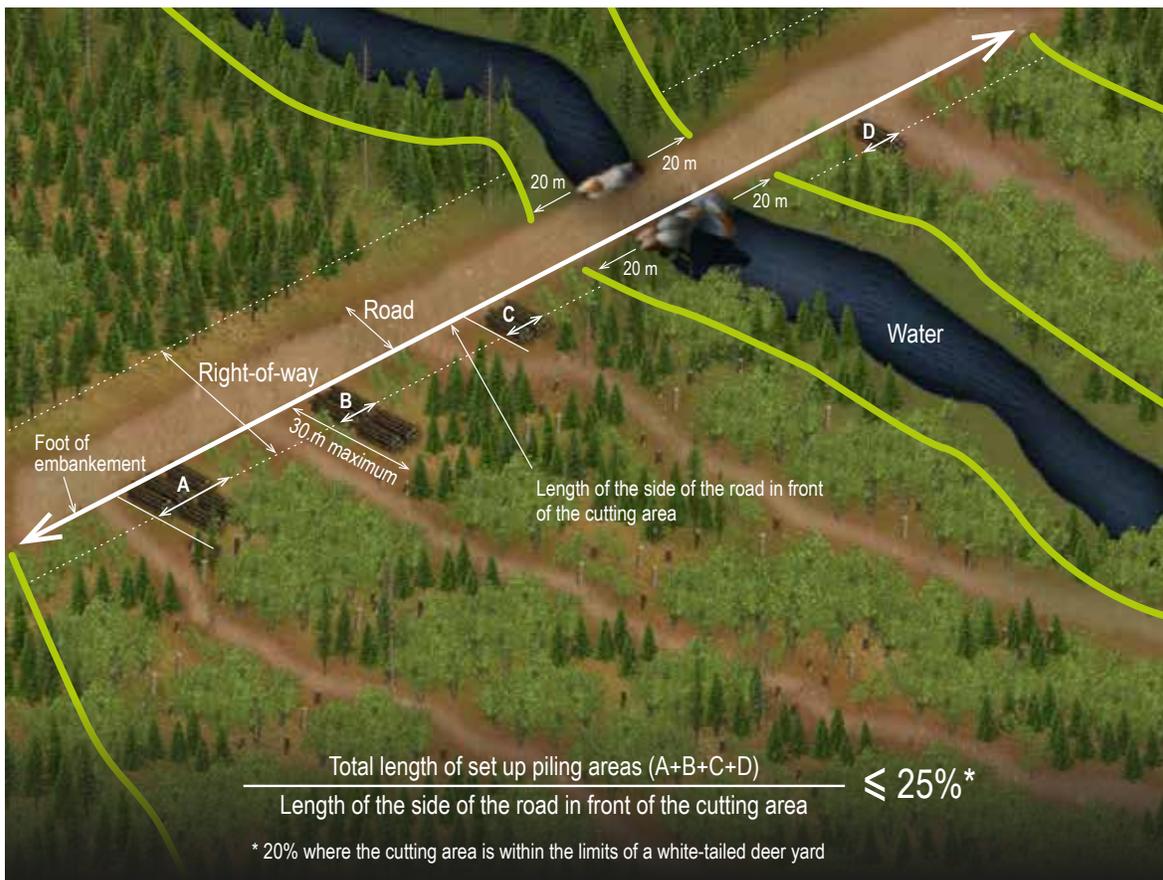


Figure 125 Limit on the size of piling areas along roads

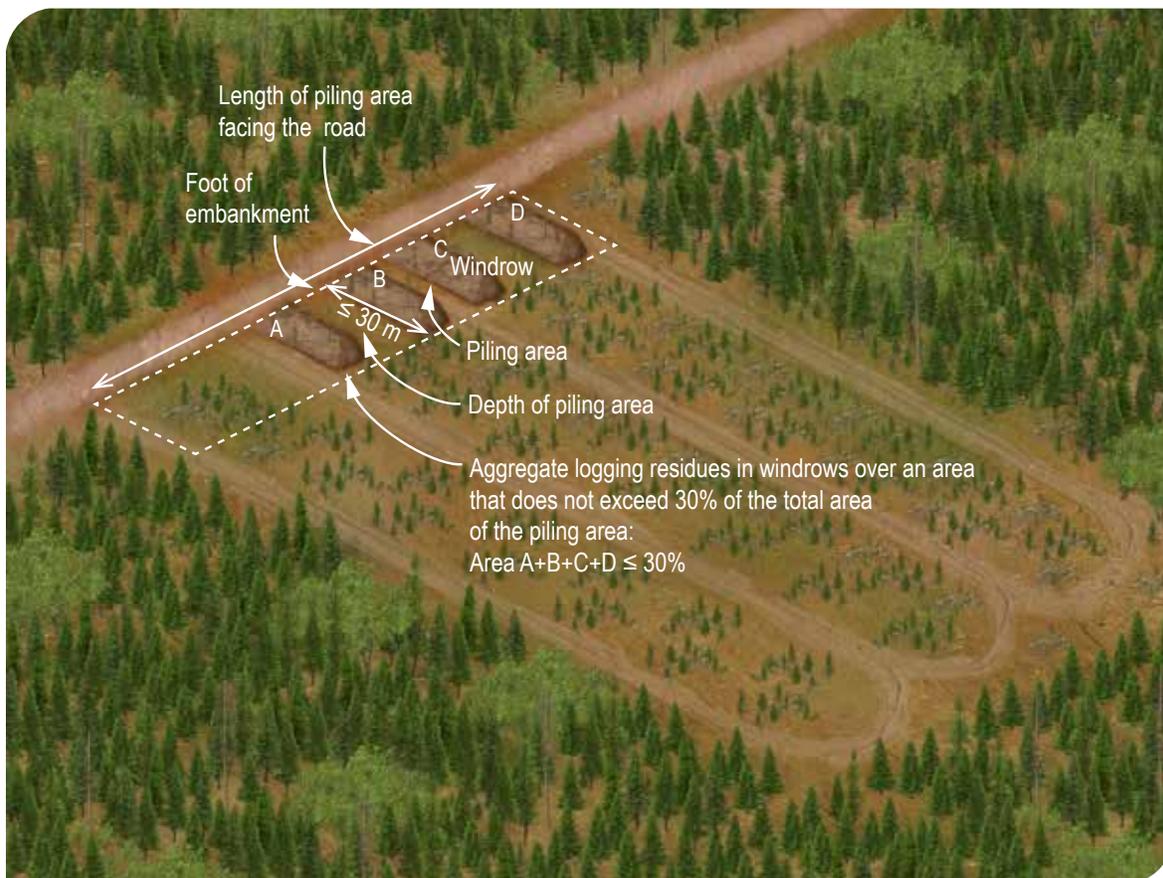


Figure 126 Windrowing or spreading of logging residues during total cutting of whole trees

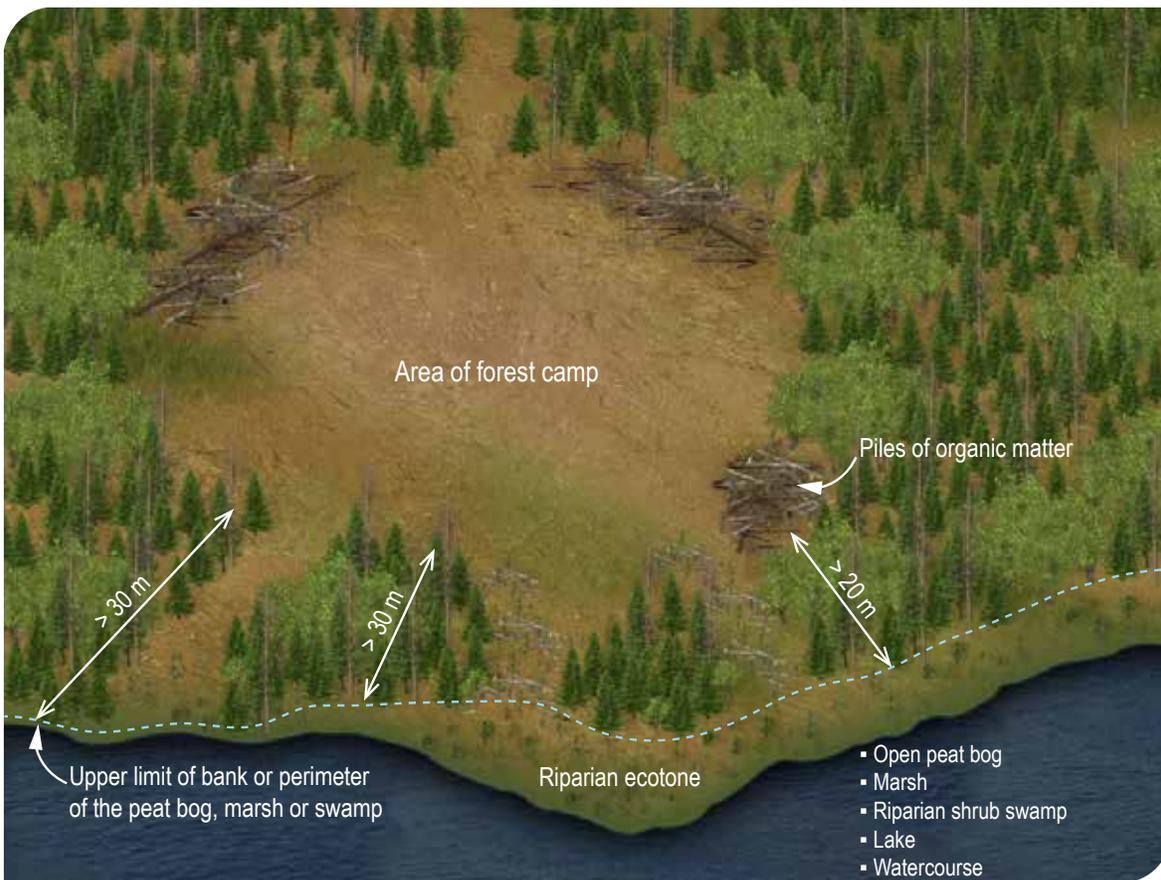


Figure 128 Distance between the area of a forest camp and a wetland or aquatic environment



Figure 129 Restoration of the area of a forest camp after use

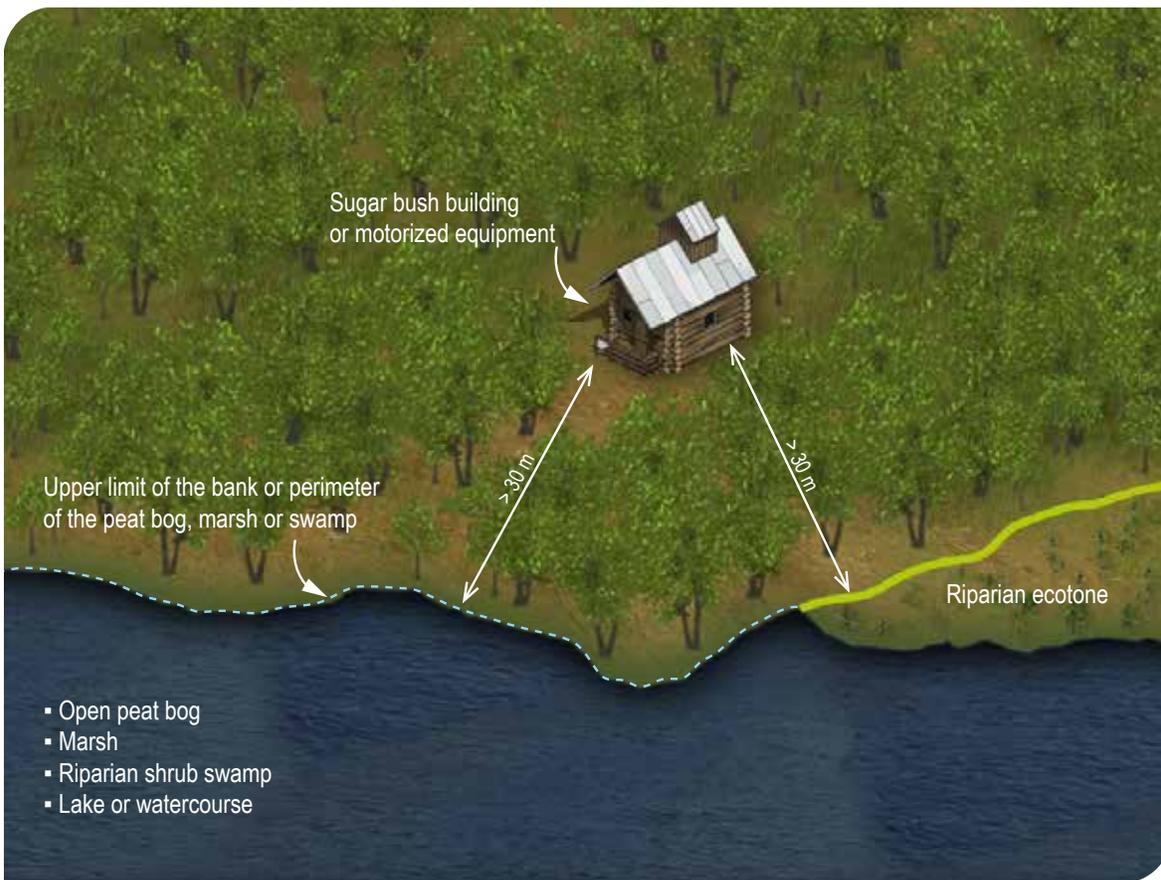


Figure 130 Distance between a sugar bush building or motorized equipment necessary for the cultivation and operation of a sugar bush, and a wetland or aquatic environment

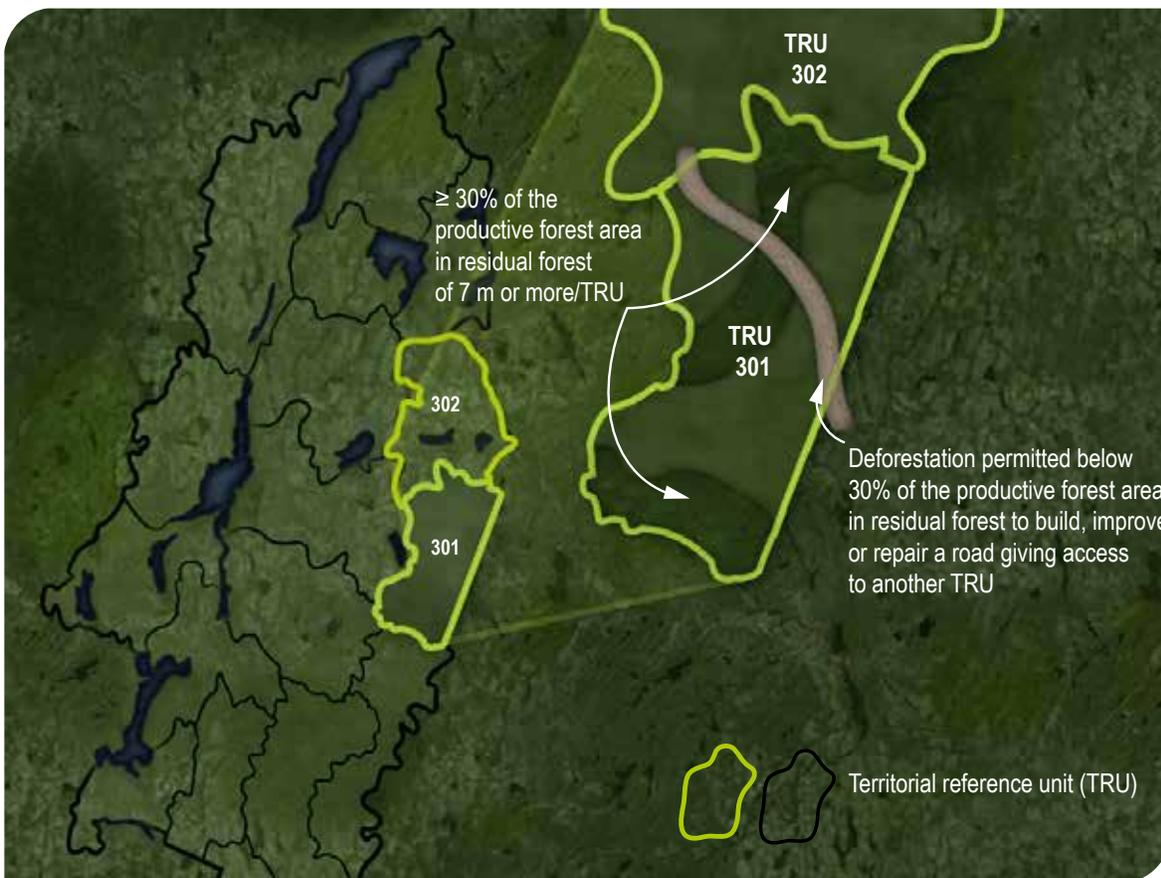


Figure 131 Percentage of residual forest of 7 m or more in height to be maintained in a territorial reference unit

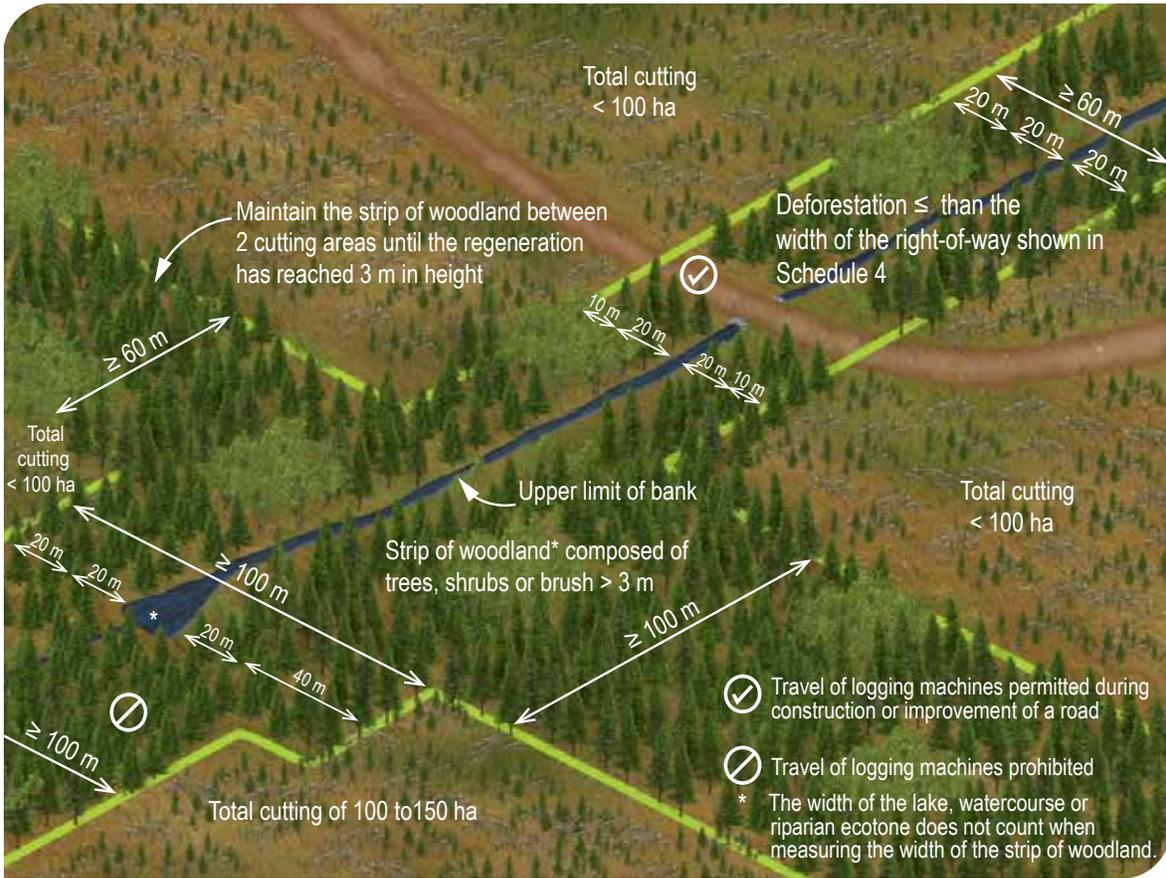


Figure 136 Strip of woodland between two total cutting areas other than block cutting

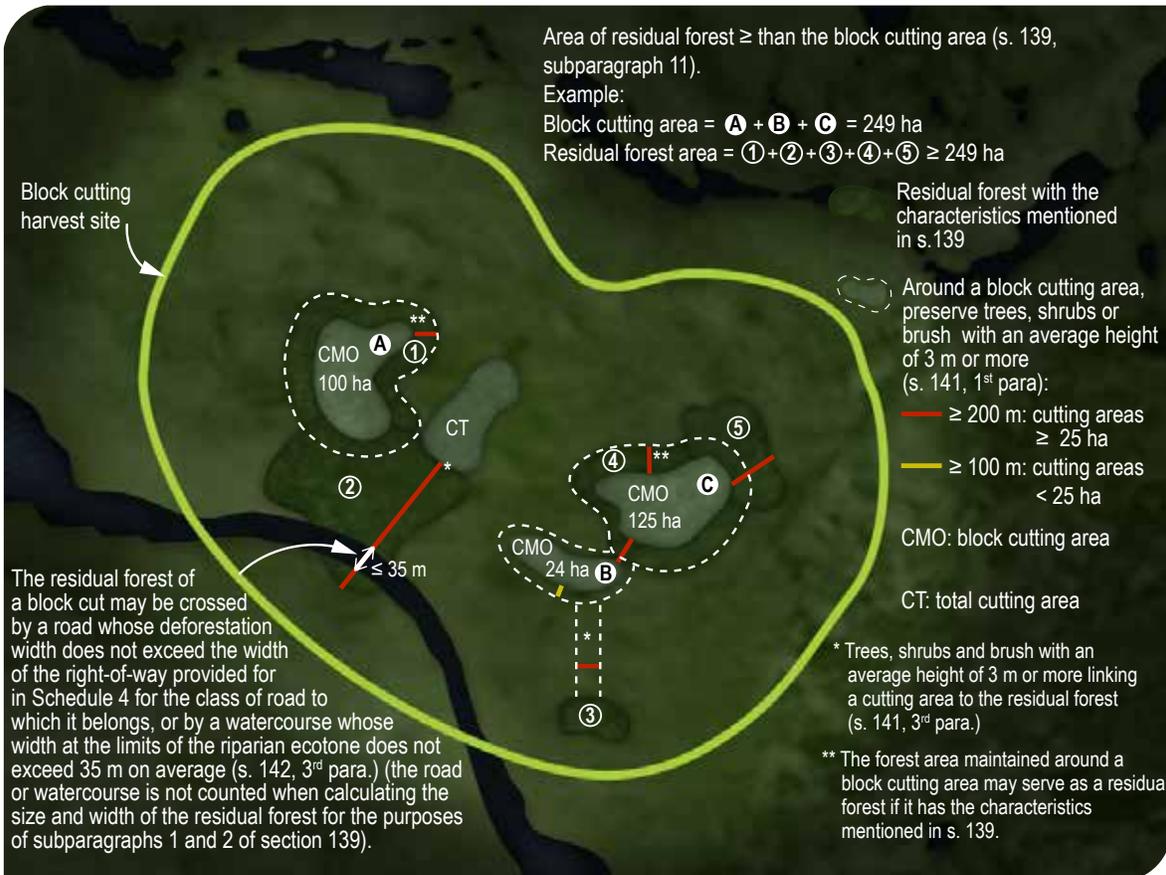


Figure 139 Size and composition of the residual forest at a block cutting harvest site

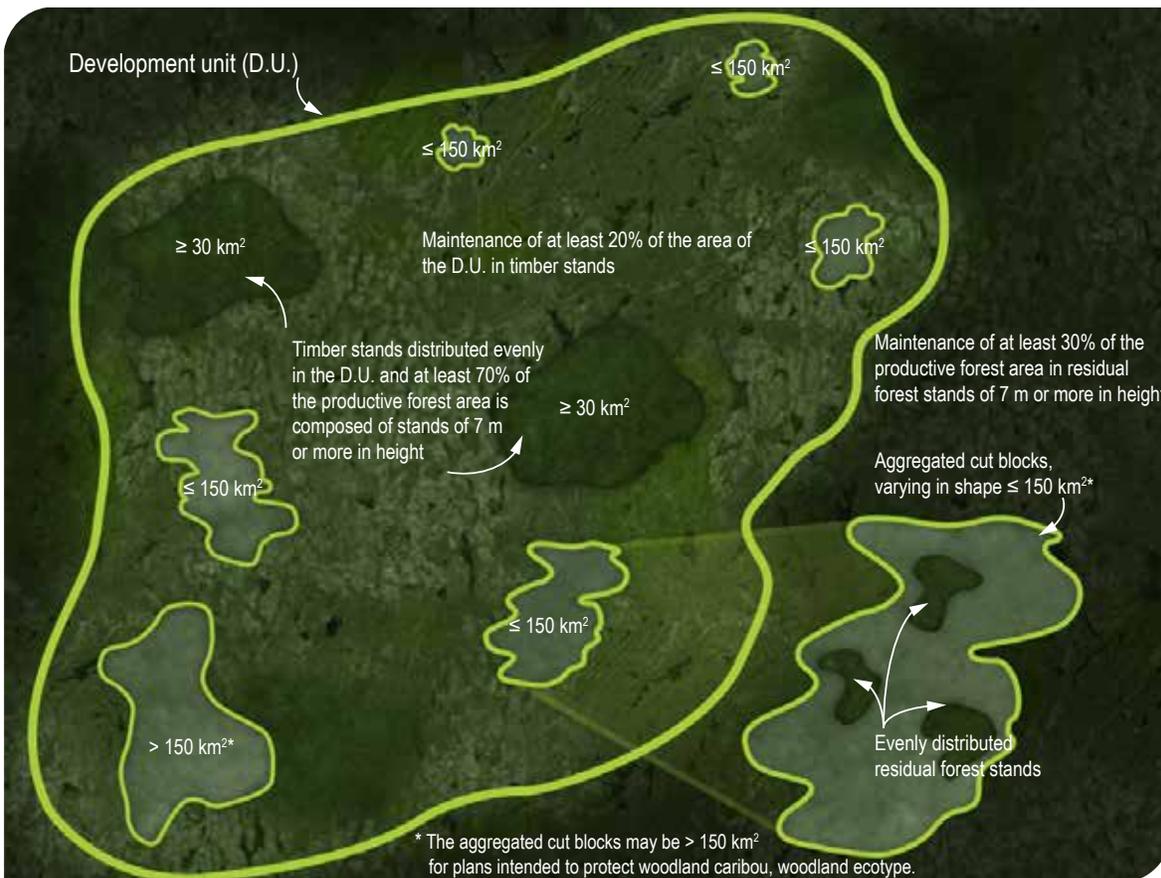


Figure 144 Forest operations carried out using an approach including aggregated cut blocks and timber stands



Figure 147 Maximum stump height

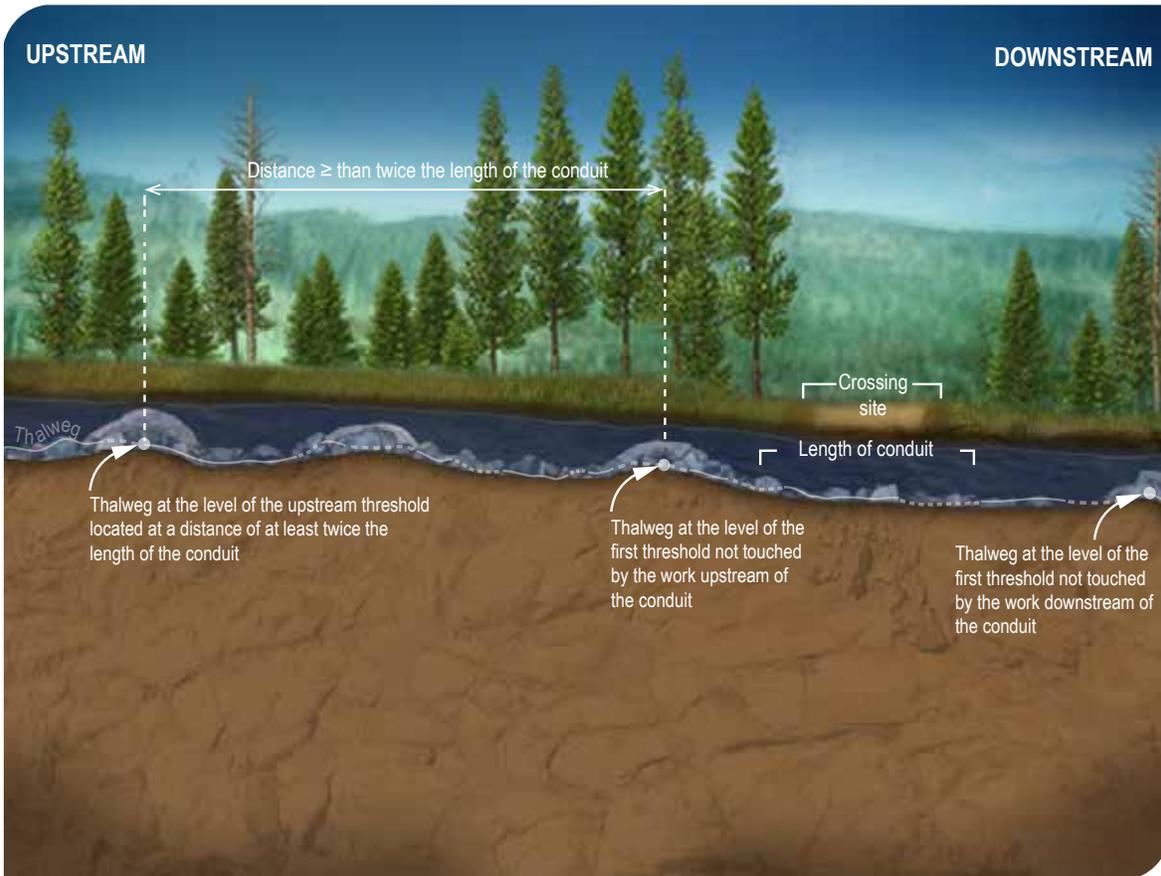


Figure Schedule 9A Placement of thresholds used to measure the slope of a watercourse

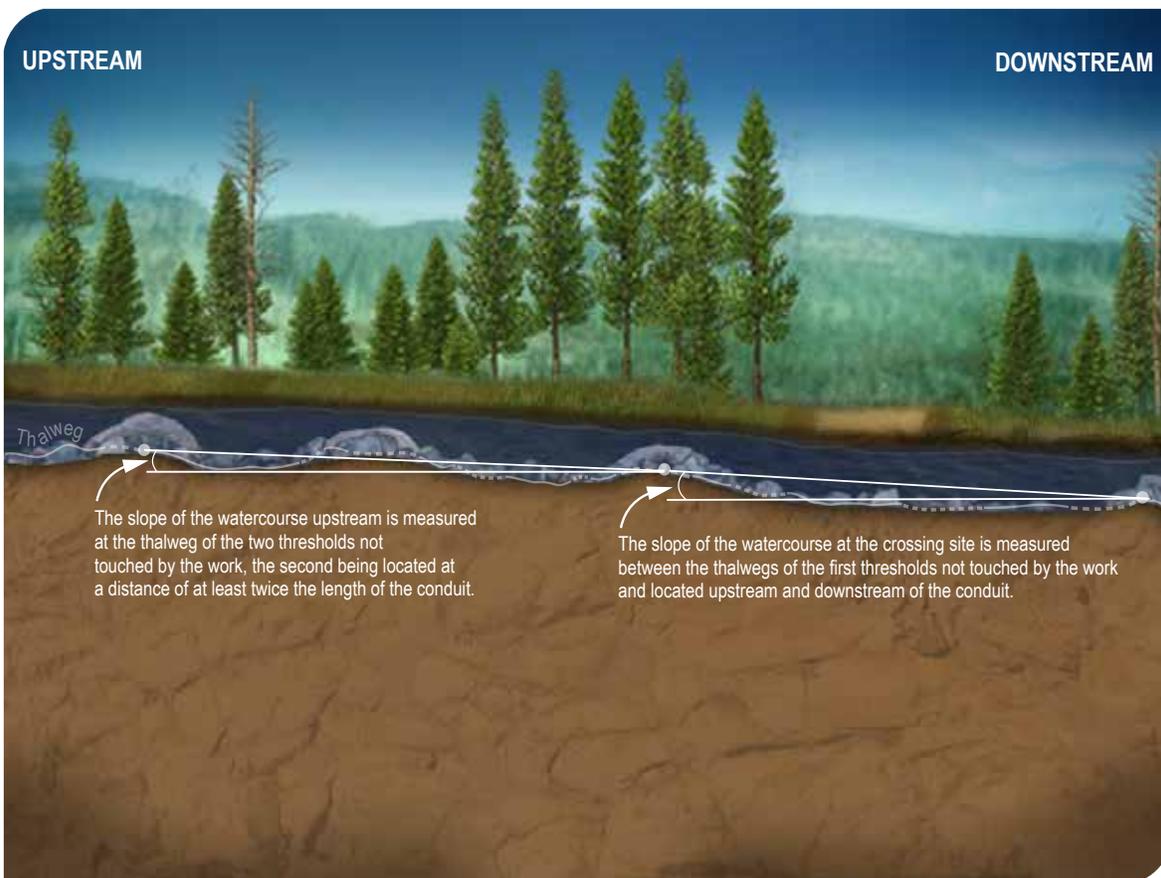


Figure Schedule 9B Measuring the slope of a watercourse

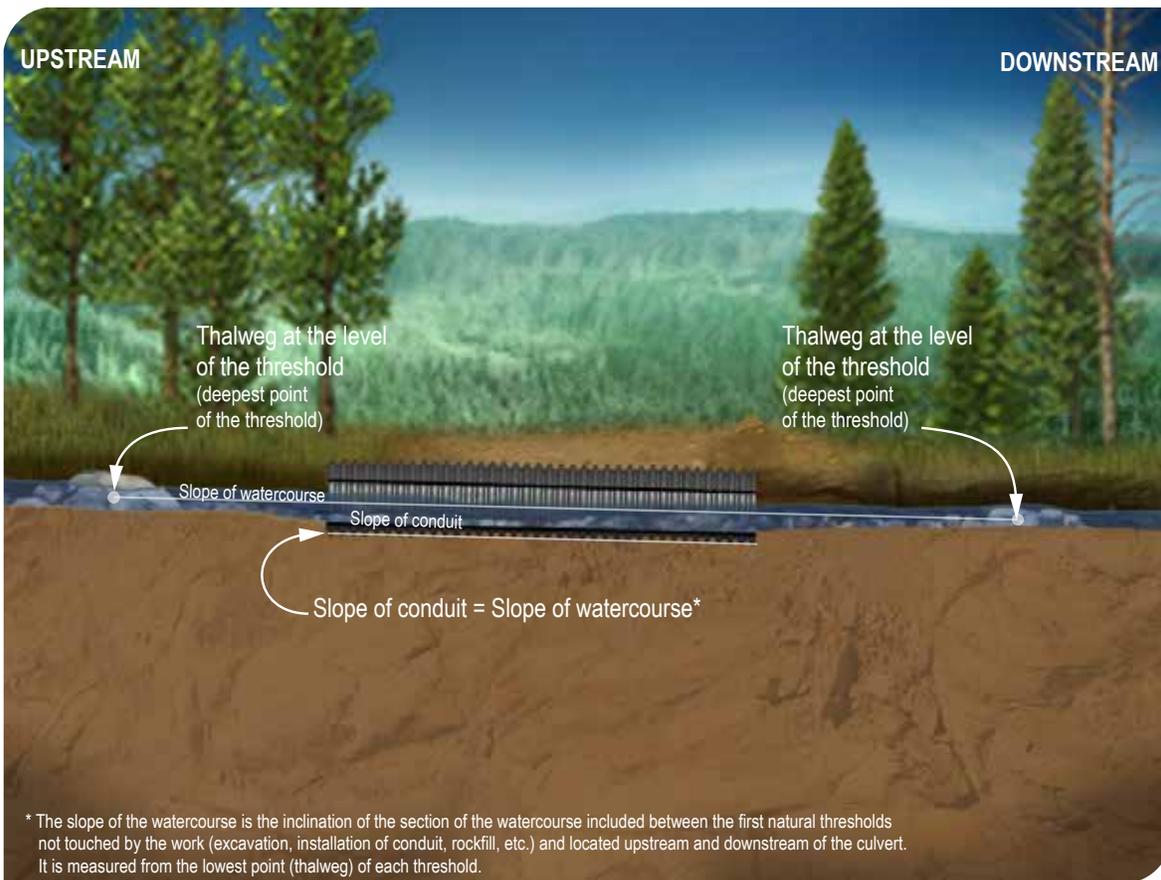


Figure Schedule 9C Burial of a conduit following the slope of the watercourse

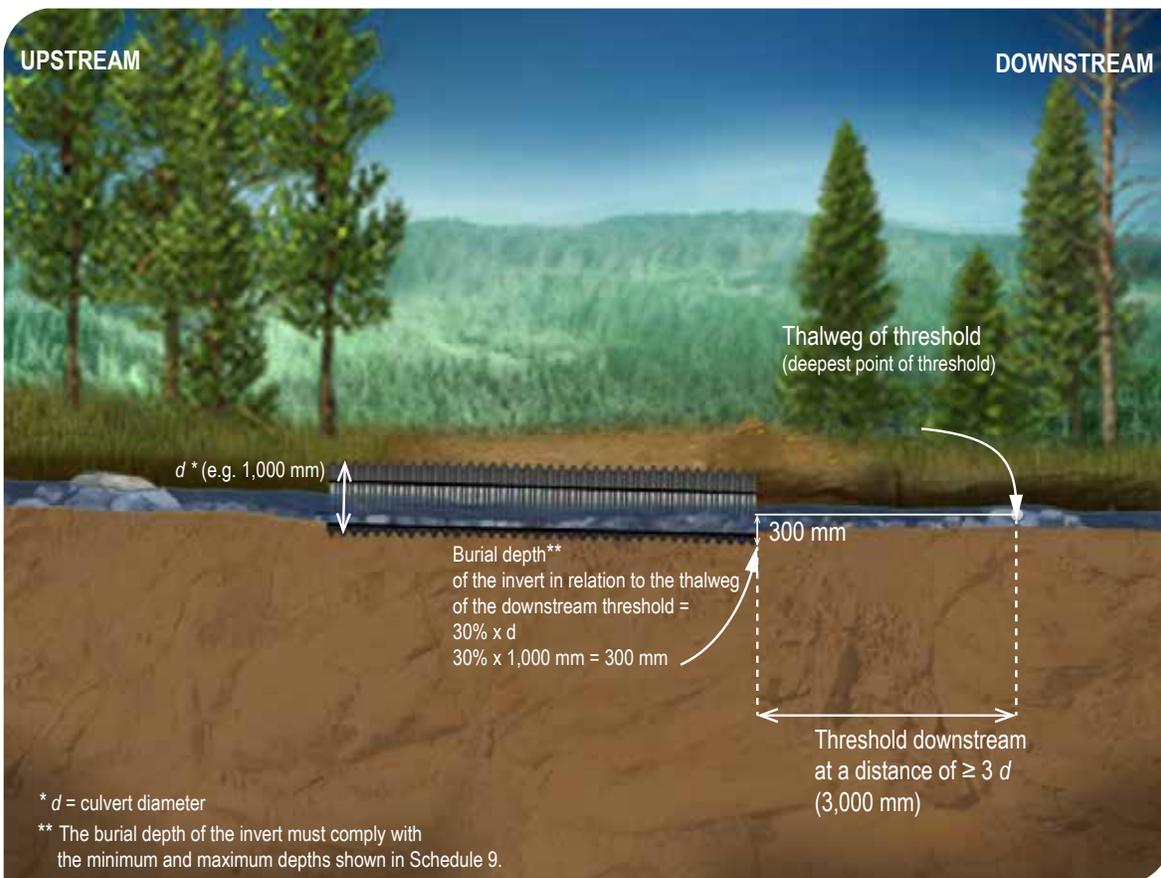


Figure Schedule 9D Burial depth for a conduit

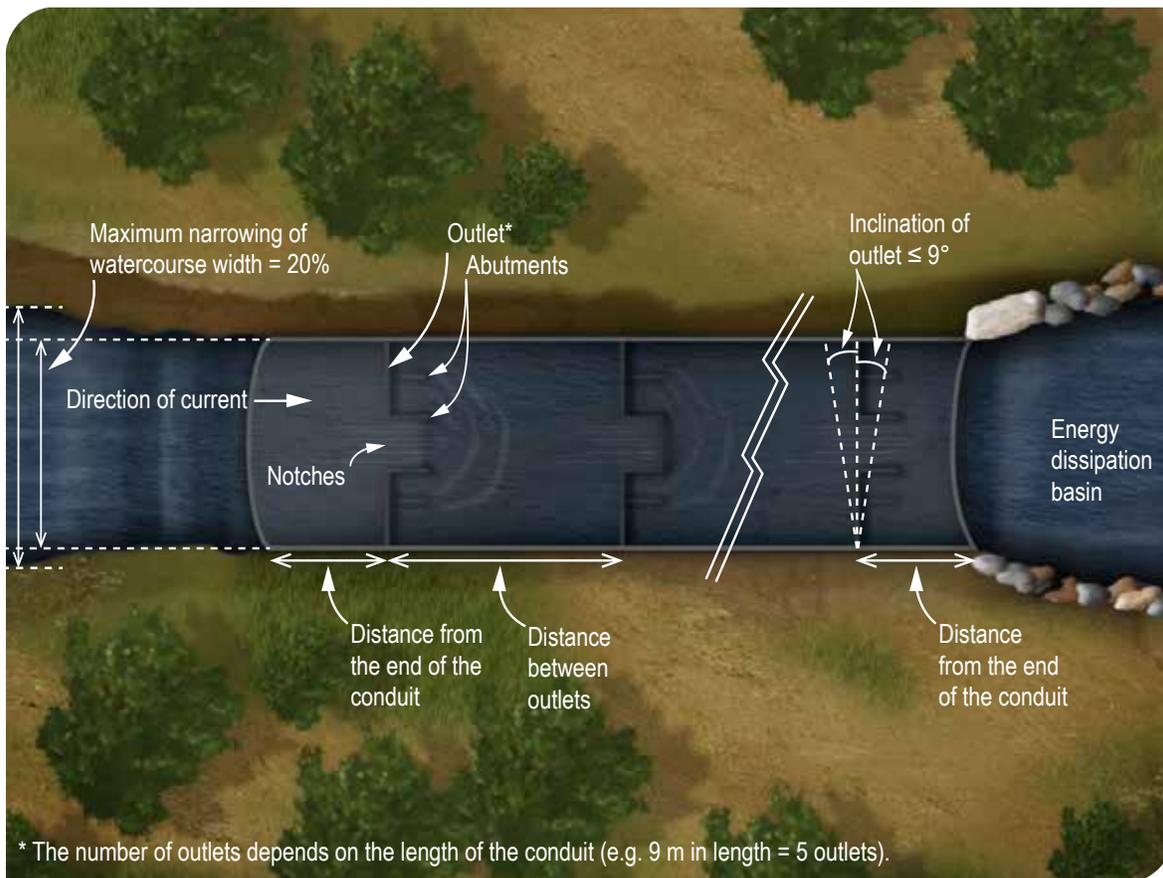


Figure Schedule 10A Location of outlets in a conduit

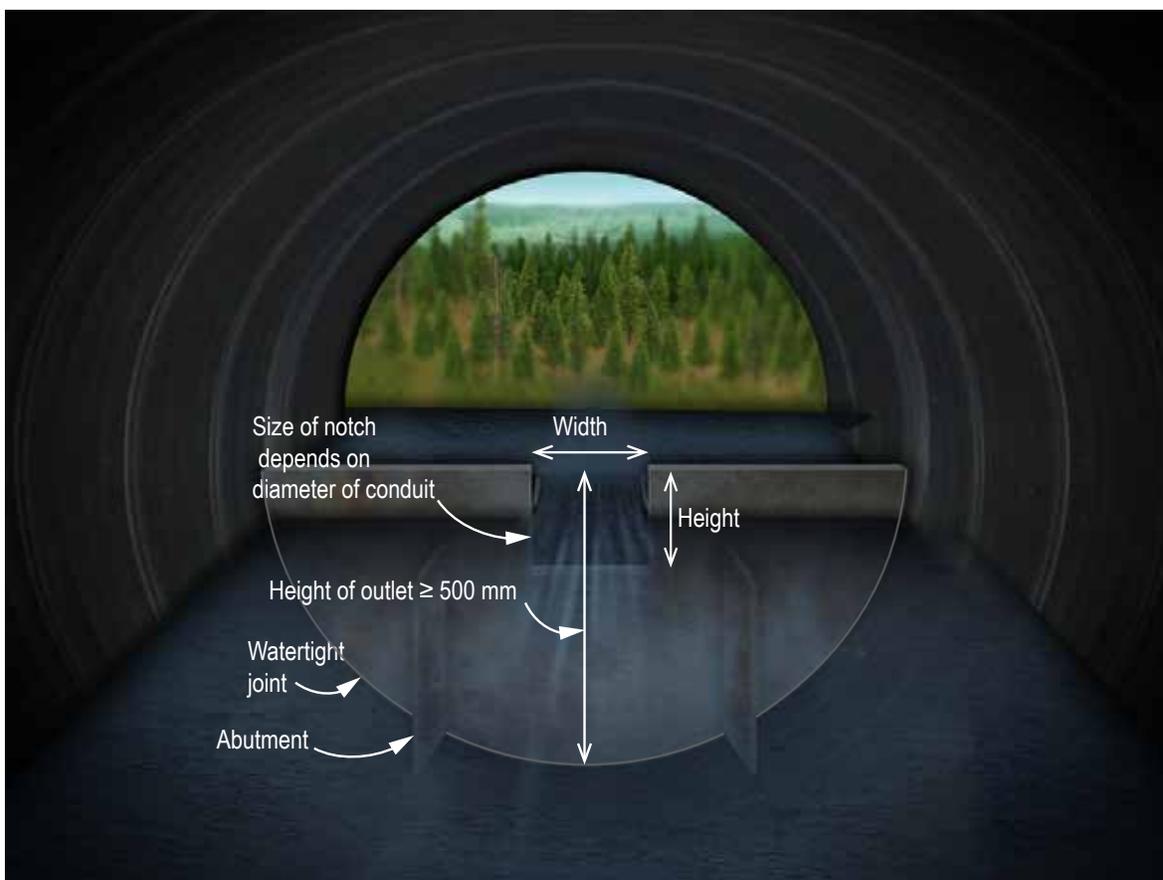


Figure Schedule 10B Characteristics of outlets in a conduit

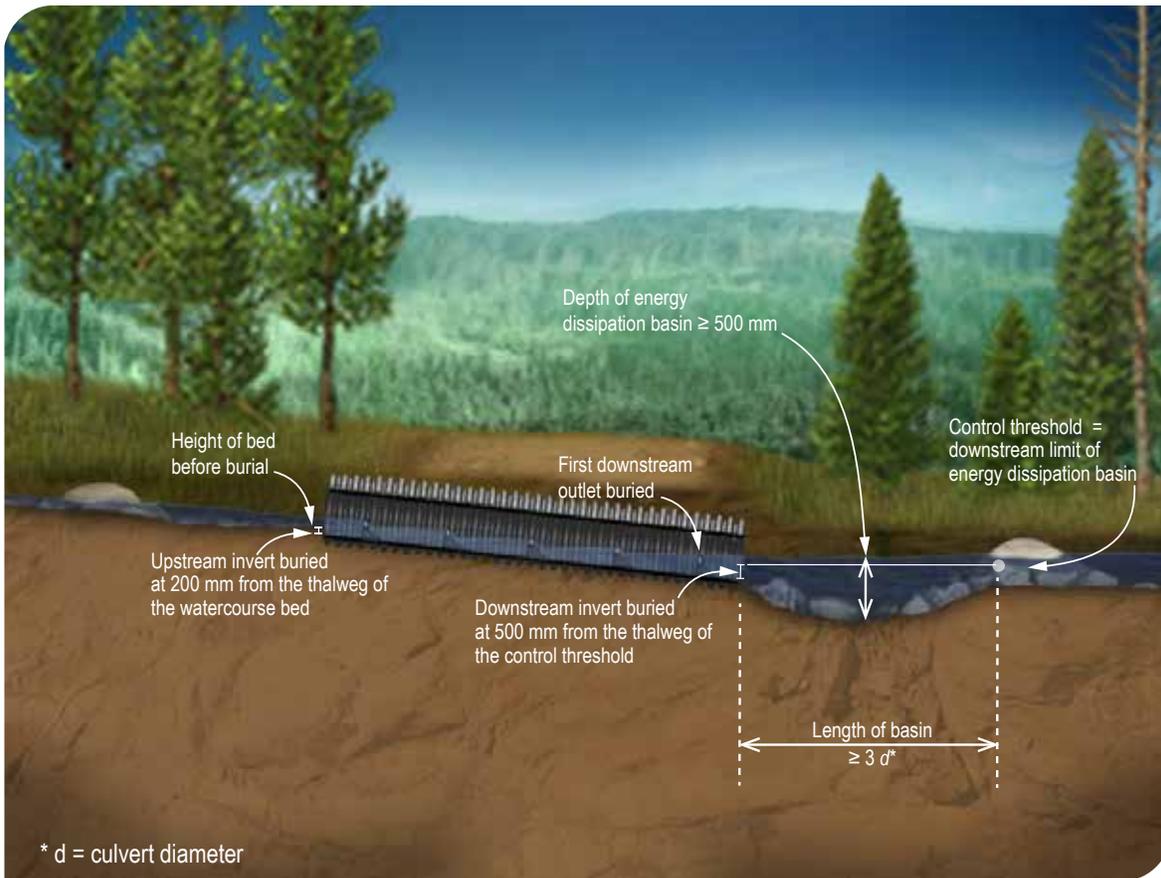


Figure Schedule 10C Burial depth of a conduit equipped with outlets compared to the thalweg and characteristics of the energy dissipation basin

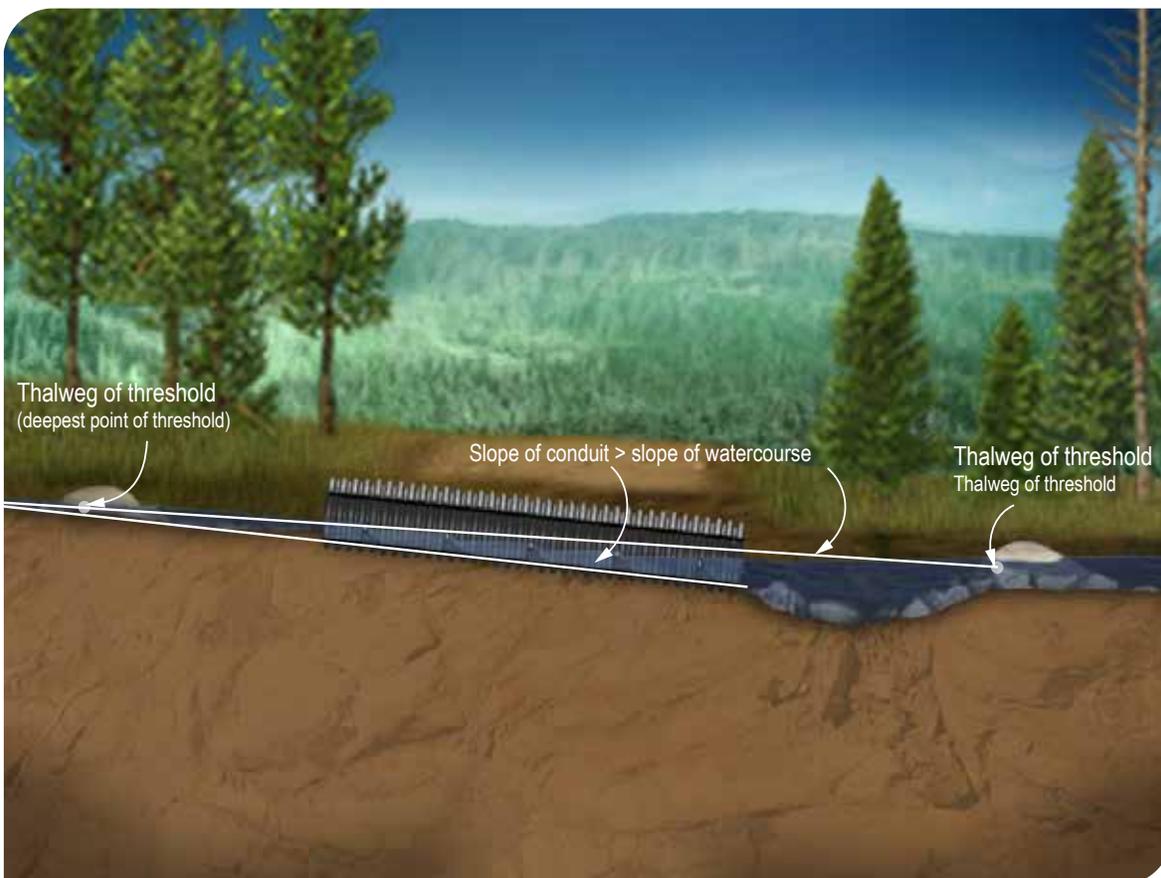


Figure Schedule 10D Installation slope of a conduit equipped with outlets

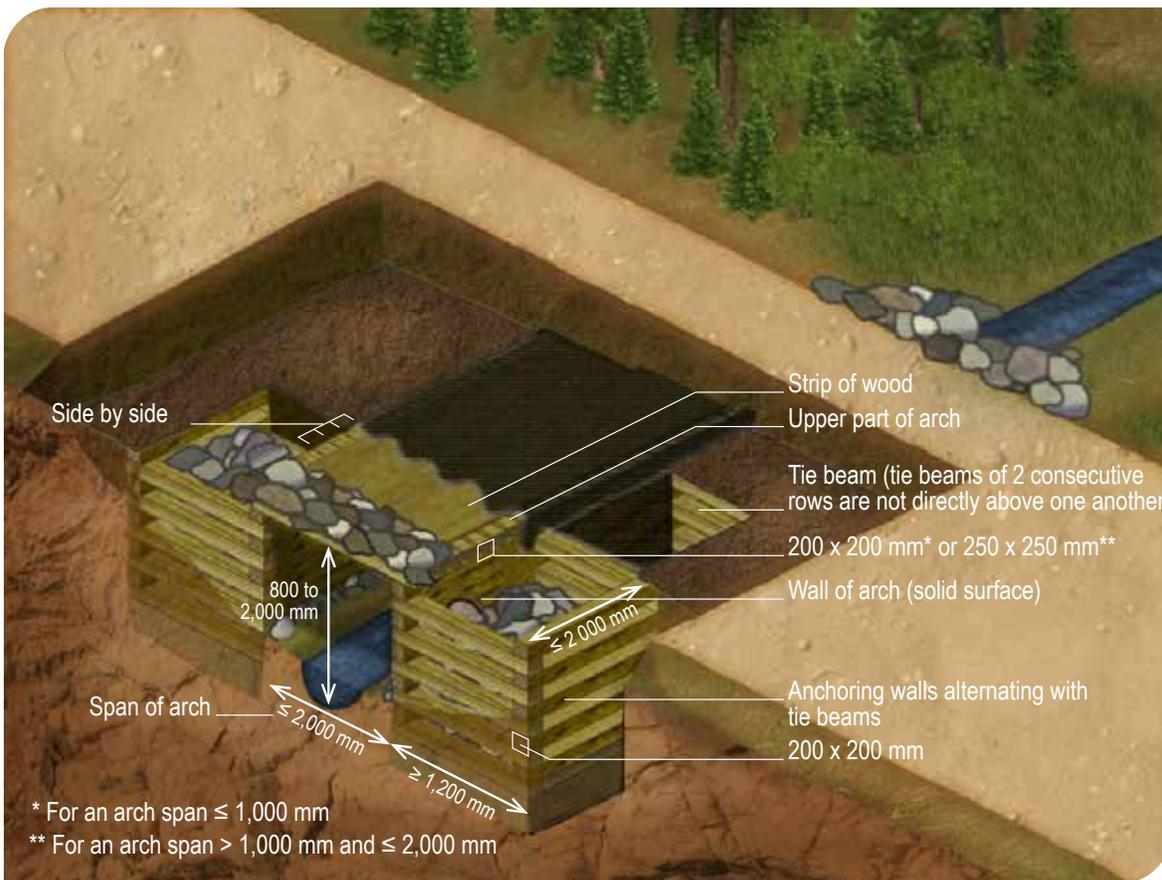


Figure Schedule 11B Structure of a wooden culvert

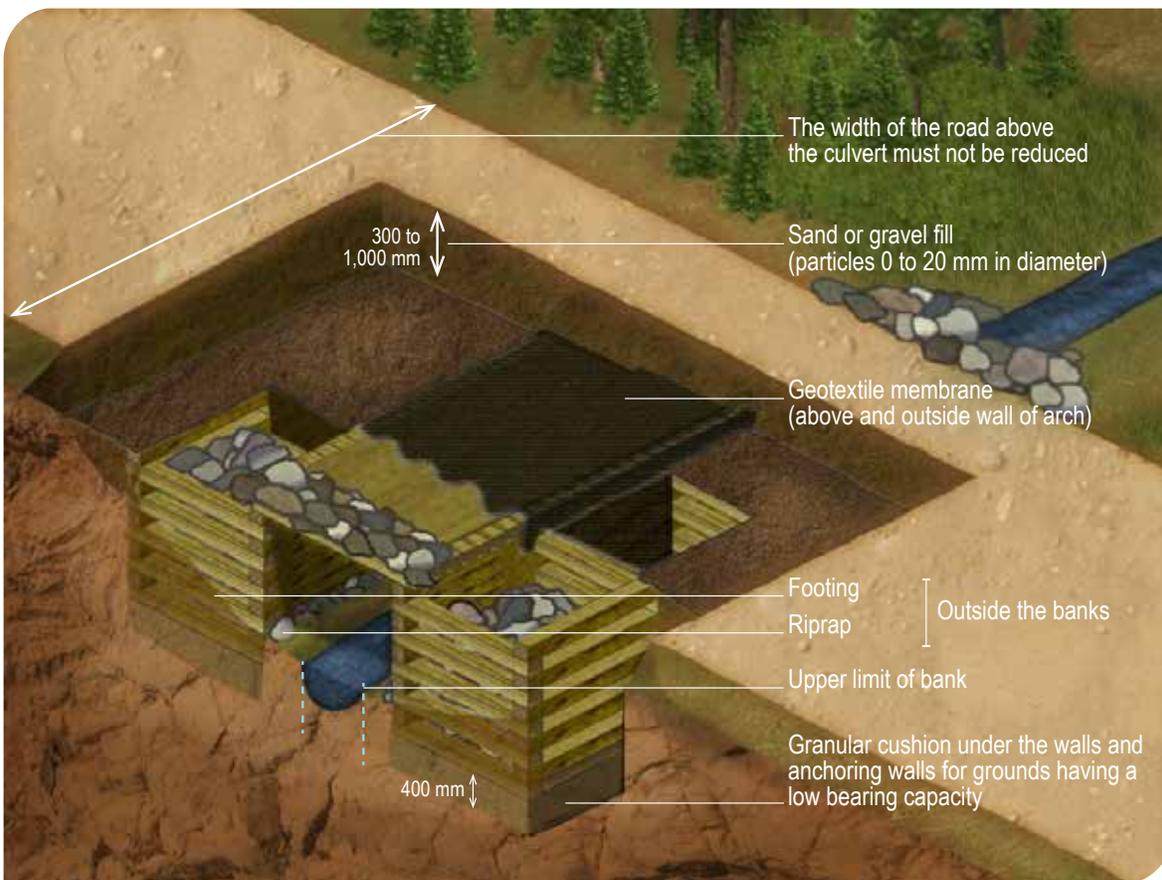


Figure Schedule 11C Conditions for installation of a wooden culvert