

<b>Operating Area Name: Harvey's Pond</b>	<b>Operating Area # CC05001</b>
<b>NFS Inventory Map #: 6632</b>	<b>NTS Map #: O2E/1 Weirs Pond</b>

**Description of Area:**

This area of crown land is located on the western side of Bonavista North; it is accessed from the TCH (Route 330) via the Boot Pond Resource Road. It is located approximately 10 km to the east side of the Gander Bay Highway. The terrain varies from rolling to hilly. The merchantable forest stands are comprised of 93% back spruce, with 2% softwood dominated mixed and 5% hardwood dominated mixed. The area is located in the North Central Subregion of the Central Newfoundland Forest Ecoregion.

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**Harvesting Activities:**

Commercial activity will include pulpwood, sawlog and fuelwood harvesting using chainsaws and mechanical harvester with extraction by forwarder.

Inventory Softwood Volume: 7,877 m<sup>3</sup>

Inventory Hardwood Volume: N/A

Proposed Softwood Volume: 7,877 m<sup>3</sup>

Proposed Hardwood Volume: 600 m<sup>3</sup>

Difference from Inventory to Proposed Volume: 0%

Rationale for Difference:

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**Silviculture Activities:**

Reconnaissance surveys will be carried out on existing and new cutovers and regeneration stands to determine the need for planting and/or thinning. Suitable cutovers that are not satisfactorily regenerated will be candidates for site preparation and planting and /or gap planting and suitable regeneration stands will be candidates for thinning. All potential silviculture areas are identified on the operations area maps.

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**Primary Forest Access Road Construction:**

No access road construction is proposed.

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**Non timber Considerations and Mitigations:**

As per regulations under ENVC all commercial and domestic operations that are associated with the Town of Indian Bay Public Protected Water Supply (PPWSA), Indian Bay Brook will be done with consultation with the town and under a Permit for Development from ENVC, Water Resources Management Division. The following buffers as per ENVC guidelines will be maintained for operations with the Indian Bay Brook PPWSA:

1. Indian Bay Brook 150 meters
2. All streams and main tributaries running into Indian Bay Brook 50 meters
3. All ponds and along both sides of all other water bodies 30 meters

A 30 meter buffer will be maintained on both sides of all rivers, brooks, ponds or other water bodies that are shown on 1:50,000 topographic maps.

On water bodies where an approved cabin development area exists, a 20 meter buffer is to be maintained.

Where an approved license to occupy for cabin exists, a 20 meter buffer is to be maintained.

No forestry activity is to occur within 800 meters of a bald eagle or osprey nest during the nesting season (Mar 15 to July 31) and 200 meters during the remainder of the year.

<b>Operating Area Name: Island Pond</b>	<b>Operating Area # CC05003</b>
<b>NFS Inventory Map #: 6524, 6621</b>	<b>NTS Map #: 2E/2 Gander River, 2E/1 Weirs Pond</b>

#### **Description of Area:**

This area of crown land is located on the western side of Bonavista North; it is accessed from the TCH (Route 330) via the Tower Resource Road. It is located at Island Pond on the eastern side of the Gander Bay Highway. The terrain varies from rolling to hilly. The merchantable forest stands are comprised of 98% black spruce with hardwood dominated mixed making up 1%. Pure white birch stands make up 1%. The area is located in the North Central Subregion of the Central Newfoundland Forest Ecoregion.

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#### **Harvesting Activities:**

Commercial activity will include pulpwood, sawlog and fuelwood harvesting using chainsaws and mechanical harvester with extraction by forwarder.

Inventory Softwood Volume: 7,834 m<sup>3</sup>

Inventory Hardwood Volume: N/A

Proposed Softwood Volume: 26,500 m<sup>3</sup>

Proposed Hardwood Volume: 1,700 m<sup>3</sup>

Difference from Inventory to Proposed Volume: 338%

Rationale for Difference: Inventory discrepancy

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#### **Silviculture Activities:**

Reconnaissance surveys will be carried out on existing and new cutovers and regeneration stands to determine the need for planting and/or thinning. Suitable cutovers that are not satisfactorily regenerated will be candidates for site preparation and planting and /or gap planting and suitable regeneration stands will be candidates for thinning. All potential silviculture areas are identified on the operations area maps.

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#### **Primary Forest Access Road Construction:**

Access road construction in this area will typically be carried out under government contract primarily utilizing excavators. The majority of the fill requirements will come from the road right of (ROW). In the event that material is required from outside the ROW (i.e. gravel pits), it will be done under permit from the Mines Branch of the Department of Natural Resources. No stream crossings will be required.

Proposed 5 year access road construction: 4.8 km

Proposed 5 year stream crossings: 1

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#### **Non timber Considerations and Mitigations:**

A 30 meter buffer will be maintained on both sides of all rivers, brooks, ponds or other water bodies that are shown on 1:50,000 topographic maps.

On water bodies where an approved cabin development area exists, a 20 meter buffer is to be maintained.

Where an approved license to occupy for a cabin development area exists, a 105 meter buffer must be maintained along the shoreline.

No forestry activity is to occur within 800 meters of a bald eagle or osprey nest during the nesting season (Mar 15 to July 31) and 200 meters during the remainder of the year.

<b>Operating Area Name: Boot Pond</b>	<b>Operating Area # CC05004</b>
<b>NFS Inventory Map #: 6611, 7841</b>	<b>NTS Map #: 2E/1 Weirs Pond, 02D/16 Gambo</b>

#### **Description of Area:**

This area of crown land is located on the western side of Bonavista North; it is accessed from Gander Bay Road via the Boot Pond Resource Road. It is located EAST of the Gander Bay Highway. The terrain varies from rolling to hilly. The merchantable forest stands are comprised of 79% pure black spruce, 9% pure white birch with 8% softwood dominated mixed and 4 % hardwood dominated mixed. The area is located in the North Central Subregion of the Central Newfoundland Forest Ecoregion.

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#### **Harvesting Activities:**

Commercial activity will include pulpwood, sawlog and fuelwood harvesting using chainsaws and mechanical harvester with extraction by forwarder.

Inventory Softwood Volume: 10,125 m<sup>3</sup>

Inventory Hardwood Volume: N/A

Proposed Softwood Volume: 7,300 m<sup>3</sup>

Proposed Hardwood Volume: 1,250 m<sup>3</sup>

Difference from Inventory to Proposed Volume: 28%

Rationale for Difference: Inventory adjustments and harvesting constraints.

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#### **Silviculture Activities:**

Reconnaissance surveys will be carried out on existing and new cutovers and regeneration stands to determine the need for planting and/or thinning. Suitable cutovers that are not satisfactorily regenerated will be candidates for site preparation and planting and /or gap planting and suitable regeneration stands will be candidates for thinning. All potential silviculture areas are identified on the operations area maps.

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#### **Primary Forest Access Road Construction:**

Access road construction in this area will typically be carried out under government contract primarily utilizing excavators. The majority of the fill requirements will come from the road right of (ROW). In the event that material is required from outside the ROW (i.e. gravel pits), it will be done under permit from the Mines Branch of the Department of Natural Resources. No stream crossings will be required.

Proposed 5 year access road construction: 1.3 km

Proposed 5 year access road reconstruction: 4.7 km

Proposed 5 year stream crossings: 0

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#### **Non timber Considerations and Mitigations:**

A 30 meter buffer will be maintained on both sides of all rivers, brooks, ponds or other water bodies that are shown on 1:50,000 topographic maps.

On water bodies where an approved cabin development area exists, a 20 meter buffer is to be maintained.

Where an approved license to occupy for cabin exists, a 20 meter buffer is to be maintained.

No forestry activity is to occur within 800 meters of a bald eagle or osprey nest during the nesting season (Mar 15 to July 31) and 200 meters during the remainder of the year.

<b>Operating Area Name:</b> Maccles Lake South	<b>Operating Area #</b> CC05005
<b>NFS Inventory Map #:</b> 9022, 9023	<b>NTS Map #:</b> 2D/9 Glovertown

#### **Description of Area:**

This area of crown land is located south of Glovertown; it is accessed from the TCH (Route 1) via the Terra Nova Resource Road. Access to the Terra Nova resource Road is via the Newfoundland Trailway. The terrain varies from rolling to hilly. The merchantable forest stands are comprised of 97% pure black spruce, with hardwood dominated mixed making up 3%. The area is located in the North Central Subregion of the Central Newfoundland Forest Ecoregion.

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#### **Harvesting Activities:**

Commercial activity will include pulpwood, sawlog and fuelwood harvesting using chainsaws and mechanical harvester with extraction by forwarder.

Inventory Softwood Volume: 39,990 m<sup>3</sup>

Inventory Hardwood Volume: N/A

Proposed Softwood Volume: 27,468 m<sup>3</sup>

Proposed Hardwood Volume: 1,000 m<sup>3</sup>

Difference from Inventory to Proposed Volume: 32%

Rationale for Difference: Inventory adjustments and harvesting constraints.

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#### **Silviculture Activities:**

Reconnaissance surveys will be carried out on existing and new cutovers and regeneration stands to determine the need for planting and/or thinning. Suitable cutovers that are not satisfactorily regenerated will be candidates for site preparation and planting and /or gap planting and suitable regeneration stands will be candidates for thinning. All potential silviculture areas are identified on the operations area maps.

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#### **Primary Forest Access Road Construction:**

Access road construction in this area will typically be carried out under government contract primarily utilizing excavators. The majority of the fill requirements will come from the road right of (ROW). In the event that material is required from outside the ROW (i.e. gravel pits), it will be done under permit from the Mineral Land Branch.

Proposed 5 year access road construction: 2 km

Proposed 5 year stream crossings: 1

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#### **Non timber Considerations and Mitigations:**

As per regulations under ENVC all commercial and domestic operations that are associated with the Town of Gander, Appleton and Glenwood Protected Water Supply (PPWSA), Gander Lake will be done

with consultation with the town and under a Permit for Development from ENVC, Water Resources Management Division.

A 30 meter buffer will be maintained on both sides of all rivers, brooks, ponds or other water bodies that are shown on 1:50,000 topographic maps.

On water bodies where an approved cabin development area exists, a 105 meter buffer must be maintained along the shoreline.

Where an approved license to occupy for a cabin exists, a 20 meter buffer is to be maintained.

No forestry activity is to occur within 800 meters of a bald eagle or osprey nest during the nesting season (Mar 15 to July 31) and 200 meters during the remainder of the year.

<b>Operating Area Name: Lower Dark Cove</b>	<b>Operating Area # CC05007</b>
<b>NFS Inventory Map #: 7822, 7823</b>	<b>NTS Map #: 2D/16 Gambo</b>

#### **Description of Area:**

This area of crown land is located in Eastern side of Bonavista North; it is accessed from the TCH (Route 330) via Lower Dark Cove Resource Road. It is located on the eastern side of Butts Pond. The terrain varies from rolling to hilly. The merchantable forest stands are comprised of 68% pure black spruce with 20% softwood dominated mixed and 11% hardwood dominated mixed. Pure white birch stands make up 1%. The area is located in the North Central Subregion of the Central Newfoundland Forest Ecoregion.

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#### **Harvesting Activities:**

Commercial activity will include pulpwood, sawlog and fuelwood harvesting using chainsaws and mechanical harvester with extraction by forwarder. A small amount of domestic harvesting could occur once commercial harvesting is completed. This would likely occur in the winter using chainsaws with extraction by snowmobile or ATV.

Inventory Softwood Volume: 53,450 m<sup>3</sup>

Inventory Hardwood Volume: N/A

Proposed Softwood Volume: 32,437 m<sup>3</sup>

Proposed Hardwood Volume: 6,241 m<sup>3</sup>

Difference from Inventory to Proposed Volume: 40%

Rationale for Difference: Inventory adjustment and harvesting constraints.

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#### **Silviculture Activities:**

Reconnaissance surveys will be carried out on existing and new cutovers and regeneration stands to determine the need for planting and/or thinning. Suitable cutovers that are not satisfactorily regenerated will be candidates for site preparation and planting and /or gap planting and suitable regeneration stands will be candidates for thinning. All potential silviculture areas are identified on the operations area maps.

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#### **Primary Forest Access Road Construction:**

Access road construction in this area will typically be carried out under government contract primarily utilizing excavators. The majority of the fill requirements will come from the road right of (ROW). In the event that material is required from outside the ROW (i.e. gravel pits), it will be done under permit from the Mineral Land Branch.

Proposed 5 year access road construction: 6.8 km

Proposed 5 year stream crossings: 0

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#### **Non timber Considerations and Mitigations:**

A 30 meter buffer will be maintained on both sides of all rivers, brooks, ponds or other water bodies that are shown on 1:50,000 topographic maps.

On water bodies where an approved cabin development area exists, a 105 meter buffer must be maintained along the shoreline.

Where an approved license to occupy for a cabin exists, a 20 meter buffer is to be maintained.

No forestry activity is to occur within 800 meters of a bald eagle or osprey nest during the nesting season (Mar 15 to July 31) and 200 meters during the remainder of the year.

<b>Operating Area Name: Content East</b>	<b>Operating Area # CC05008</b>
<b>NFS Inventory Map #: 7911, 7912, 7921, 7922</b>	<b>NTS Map #: 2C/13 St. Brendan's</b>

**Description of Area:**

This area of crown land is located in Bonavista North; it is accessed from the TCH (Route 1) via Drover's Ridge Resource Road. It is located on the eastern side of the Content Peninsula, south-side of Freshwater Bay. The terrain is rugged with rock outcrops and ledges. The merchantable forest stands are comprised of 93% pure black spruce and 7% pure balsam fir. The area is located in the North Shore Forest Ecoregion.

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**Harvesting Activities:**

Commercial activity will include pulpwood, sawlog and fuelwood harvesting using chainsaws and mechanical harvester with extraction by forwarder.

Inventory Softwood Volume: 41,242 m<sup>3</sup>

Inventory Hardwood Volume: N/A

Proposed Softwood Volume: 28,408 m<sup>3</sup>

Proposed Hardwood Volume: 250 m<sup>3</sup>

Difference from Inventory to Proposed Volume: 30%

Rationale for Difference: Inventory adjustment for age class and volume per hectare and field assessment.

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**Silviculture Activities:**

Reconnaissance surveys will be carried out on existing and new cutovers and regeneration stands to determine the need for planting and/or thinning. Suitable cutovers that are not satisfactorily regenerated will be candidates for site preparation and planting and /or gap planting and suitable regeneration stands will be candidates for thinning. All potential silviculture areas are identified on the operations area maps.

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**Primary Forest Access Road Construction:**

Proposed 5 year access road construction: 1.4 km

Proposed 5 year stream crossings: 1

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**Non timber Considerations and Mitigations:**

A 100 meter buffer will be maintained along the coastline headland on the Content Peninsula to protect potential archaeological artifacts and important seascape vistas.

A 30 meter buffer will be maintained on both sides of all rivers, brooks, ponds or other water bodies that are shown on 1:50,000 topographic maps.

On water bodies where an approved cabin development area exists, a 105 meter buffer must be maintained along the shoreline.

Where an approved license to occupy for a cabin exists, a 20 meter buffer is to be maintained.

No forestry activity is to occur within 800 meters of a bald eagle or osprey nest during the nesting season (Mar 15 to July 31) and 200 meters during the remainder of the year.

<b>Operating Area Name:</b> Maccles Lake North	<b>Operating Area #</b> CC05009
<b>NFS Inventory Map #:</b> 9033	<b>NTS Map #:</b> 2D/9 Glovertown

#### **Description of Area:**

This area of crown land is located southwest of Glovertown; it is accessed from the TCH (Route 1). It is located on the northern side of Maccles Lake. The terrain varies from hilly to rough. The merchantable forest stands are comprised of 86% pure black spruce and 1% pure balsam fir with 9% softwood dominated mixed and 4% hardwood dominated mixed. The area is located in the North Central Subregion of the Central Newfoundland Forest Ecoregion.

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#### **Harvesting Activities:**

Commercial activity will include pulpwood, sawlog and fuelwood harvesting using chainsaws and mechanical harvester with extraction by forwarder.

Inventory Softwood Volume: 15,275 m<sup>3</sup>

Inventory Hardwood Volume: N/A

Proposed Softwood Volume: 8,500 m<sup>3</sup>

Proposed Hardwood Volume: 500 m<sup>3</sup>

Difference from Inventory to Proposed Volume: 45%

Rationale for Difference: Inventory adjustment, harvesting constraints and partial area harvested.

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#### **Silviculture Activities:**

Reconnaissance surveys will be carried out on existing and new cutovers and regeneration stands to determine the need for planting and/or thinning. Suitable cutovers that are not satisfactorily regenerated will be candidates for site preparation and planting and /or gap planting and suitable regeneration stands will be candidates for thinning. All potential silviculture areas are identified on the operations area maps.

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#### **Primary Forest Access Road Construction:**

Access road construction in this area will typically be carried out under government contract primarily utilizing excavators. The majority of the fill requirements will come from the road right of (ROW). In the event that material is required from outside the ROW (i.e. gravel pits), it will be done under permit from the Mineral Land Division.

Proposed 5 year access road construction: 1.5 km Operation Resource Road

Proposed 5 year stream crossings: 0

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#### **Non timber Considerations and Mitigations:**

In the last 5 year plan the Forestry Services Branch held consultations with ENVC, Crown Lands and Land Management Division for their concerns for possible future cabin access road development on Maccles Lake North. The following mitigations were agreed to for this operation area"

1. There will be no plans to resource access roads into the MacCles Lake North harvesting block. DNR and LMD agreed that LMD would develop cabin access roads before silviculture work is completed in the area.

The Forestry Agency does not maintain resource roads once harvesting and silviculture is completed.

A 20 meter buffer will be maintained on both sides of all rivers, brooks, ponds or other water bodies that are shown on 1:50,000 topographic maps.

On water bodies where an approved cabin development area exists, a 105 meter buffer must be maintained along the shoreline.

Where an approved license to occupy for a cabin exists, a 20 meter buffer is to be maintained.

No forestry activity is to occur within 800 meters of a bald eagle or osprey nest during the nesting season (Mar 15 to July 31) and 200 meters during the remainder of the year.

<b>Operating Area Name: Miller's Angle</b>	<b>Operating Area # CC05010</b>
<b>NFS Inventory Map #: 9023, 9024</b>	<b>NTS Map #: 2D/9 Glovertown</b>

#### **Description of Area:**

This area of crown land is located south of Glovertown; it is accessed from the TCH (Route 1) via the Newfoundland T'Railway. It is located on the eastern side of Maccles Lake. The terrain varies from hilly to rough. The merchantable forest stands are comprised of 60% pure black spruce with 29% softwood dominated mixed and 10% hardwood dominated mixed. Pure white birch stands make up 1%. The area is located in the North Central Subregion of the Central Newfoundland Forest Ecoregion.

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#### **Harvesting Activities:**

Commercial activity will include pulpwood, sawlog and fuelwood harvesting using chainsaws and mechanical harvester with extraction by forwarder.

Inventory Softwood Volume: 9,635 m<sup>3</sup>

Inventory Hardwood Volume: N/A

Proposed Softwood Volume: 6,190m<sup>3</sup>

Proposed Hardwood Volume: 1,600 m<sup>3</sup>

Difference from Inventory to Proposed Volume: 16%

Rationale for Difference: Inventory adjustment and harvesting constraints.

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#### **Silviculture Activities:**

Reconnaissance surveys will be carried out on existing and new cutovers and regeneration stands to determine the need for planting and/or thinning. Suitable cutovers that are not satisfactorily regenerated will be candidates for site preparation and planting and /or gap planting and suitable regeneration stands will be candidates for thinning. All potential silviculture areas are identified on the operations area maps.

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#### **Primary Forest Access Road Construction:**

Access road construction in this area will typically be carried out under government contract primarily utilizing excavators. The majority of the fill requirements will come from the road right of (ROW). In the event that material is required from outside the ROW (i.e. gravel pits), it will be done under permit from the Mineral Land Branch.

Proposed 5 year access road construction: 0 kms

Proposed 5 year stream crossings: 0

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#### **Non timber Considerations and Mitigations:**

In the last 5 year plan the Forestry Services Branch held consultations with FABEC for their value of viewscape and fishstocks on the Terra Nova River. The following mitigations were agreed to for this operation area:

1. The eastern portion of the block closest to the River follows the transmission line; such that the transmission line marks the eastern boundary of this block along its entire length.

The Forestry Agency Branch held consultations with Parks Canada for their value of viewscape along a walking/quad trail (located between Miller's Angle (CC05010) and T'railway East Block (CC05011)) leading to Terra Nova River. The Following mitigations were agreed to for this operating area.

1. The same block boundary amendment as above mitigated viewscape concerns.
2. A 40 meter no cut buffer will be maintained either side of this trail to ensure that if future domestic harvesting takes place permit holders will not be permitted to cut directly from the trail.

A 30 meter buffer will be maintained on both sides of all rivers, brooks, ponds or other water bodies that are shown on 1:50,000 topographic maps.

On water bodies where an approved cabin development area exists, a 105 meter buffer must be maintained along the shoreline.

Where an approved license to occupy for a cabin exists, a 20 meter buffer is to be maintained.

No forestry activity is to occur within 800 meters of a bald eagle or osprey nest during the nesting season (Mar 15 to July 31) and 200 meters during the remainder of the year.

<b>Operating Area Name: T'railway East</b>	<b>Operating Area # CO5011</b>
<b>NFS Inventory Map #: 9013, 9023</b>	<b>NTS Map #: 2D/9 Glovertown</b>

#### **Description of Area:**

This area of crown land is located south of Glovertown; it is accessed from the TCH (Route 1) via the Newfoundland Trailway. It is located along the east side of the Provincial T'railway, south of Millers Angle (CC05010). The terrain is rugged. The merchantable forest stands are comprised of 73% pure black spruce with 23% softwood dominated mixed and 3% hardwood dominated mixed. Pure white birch stands make up 1%. The area is located in the North Central Subregion of the Central Newfoundland Forest Ecoregion.

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#### **Harvesting Activities:**

Commercial activity will include pulpwood, sawlog and fuelwood harvesting using chainsaws and mechanical harvester with extraction by forwarder.

Inventory Softwood Volume: 49,264 m<sup>3</sup>

Inventory Hardwood Volume: N/A

Proposed Softwood Volume: 35,794 m<sup>3</sup>

Proposed Hardwood Volume: 5,500 m<sup>3</sup>

Difference from Inventory to Proposed Volume: 27%

Rationale for Difference: Inventory adjustment and harvesting constraints.

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#### **Silviculture Activities:**

Reconnaissance surveys will be carried out on existing and new cutovers and regeneration stands to determine the need for planting and/or thinning. Suitable cutovers that are not satisfactorily regenerated will be candidates for site preparation and planting and /or gap planting and suitable regeneration stands will be candidates for thinning. All potential silviculture areas are identified on the operations area maps.

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#### **Primary Forest Access Road Construction:**

Access road construction in this area will typically be carried out under government contract primarily utilizing excavators. The majority of the fill requirements will come from the road right of (ROW). In the event that material is required from outside the ROW (i.e. gravel pits), it will be done under permit from the Mines Branch of the Department of Natural Resources. No stream crossings will be required.

Proposed 5 year access road construction: 4.5 km

Proposed 5 year stream crossings: 0

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#### **Non timber Considerations and Mitigations:**

In the last 5 year plan the Forestry Services Branch held consultations with FABEC for their value of viewscape from the Terra Nova River. The following mitigations were agreed to for this operation area:

1. The boundary of this block was amended; it was moved west 280 meters for the length of block bringing it back to the already cleared power line.
2. FABEC and TNNP requested a 40m buffer along the ATV trail located north of this block which allows access from the T'railway to Terra Nova River.

A 30 meter buffer will be maintained on both sides of all rivers, brooks, ponds or other water bodies that are shown on 1:50,000 topographic maps.

On water bodies where an approved cabin development area exists, a 105 meter buffer must be maintained along the shoreline.

Where an approved license to occupy for a cabin exists, a 20 meter buffer is to be maintained.

No forestry activity is to occur within 800 meters of a bald eagle or osprey nest during the nesting season (Mar 15 to July 31) and 200 meters during the remainder of the year.

<b>Operating Area Name: Chain Pond West</b>	<b>Operating Area # CC05012</b>
<b>NFS Inventory Map #: 9012, 9013, 9022, 9023</b>	<b>NTS Map #: 2D/9 Glovertown</b>

#### **Description of Area:**

This area of crown land is located south of Glovertown; it is accessed from the TCH (Route 1) via the Terra Nova Resource Road. It is located on the west of Chain Pond and is adjacent to area CC05013 (Rocky Pond). The terrain varies from rolling to hilly. The merchantable forest stands are comprised of 97% pure black spruce with 2% softwood dominated mixed and 1% hardwood dominated mixed. The area is located in the North Central Subregion of the Central Newfoundland Forest Ecoregion.

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#### **Harvesting Activities:**

Commercial activity will include pulpwood, sawlog and fuelwood harvesting using chainsaws and mechanical harvester with extraction by forwarder.

Inventory Softwood Volume: 10,896 m<sup>3</sup>

Inventory Hardwood Volume: N/A

Proposed Softwood Volume: 10,350 m<sup>3</sup>

Proposed Hardwood Volume: 240 m<sup>3</sup>

Difference from Inventory to Proposed Volume: 5%

Rationale for Difference: Inventory adjustment and harvesting constraints.

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#### **Silviculture Activities:**

Reconnaissance surveys will be carried out on existing and new cutovers and regeneration stands to determine the need for planting and/or thinning. Suitable cutovers that are not satisfactorily regenerated will be candidates for site preparation and planting and /or gap planting and suitable regeneration stands will be candidates for thinning. All potential silviculture areas are identified on the operations area maps.

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#### **Primary Forest Access Road Construction:**

Access road construction in this area will typically be carried out under government contract primarily utilizing excavators. The majority of the fill requirements will come from the road right of (ROW). In the event that material is required from outside the ROW (i.e. gravel pits), it will be done under permit from the Mineral Land Branch.

Proposed 5 year access road construction: 1.5km

Proposed 5 year stream crossings: 0

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#### **Non timber Considerations and Mitigations:**

A 30 meter buffer will be maintained on both sides of all rivers, brooks, ponds or other water bodies that are shown on 1:50,000 topographic maps.

On water bodies where an approved cabin development area exists, a 105 meter buffer must be maintained along the shoreline.

Where an approved license to occupy for a cabin exists, a 20 meter buffer is to be maintained.

No forestry activity is to occur within 800 meters of a bald eagle or osprey nest during the nesting season (Mar 15 to July 31) and 200 meters during the remainder of the year.

<b>Operating Area Name: Rocky Pond Northwest</b>	<b>Operating Area # CC05013</b>
<b>NFS Inventory Map #: 9011, 9021, 9022, 9032</b>	<b>NTS Map #: 2D/9 Glovertown</b>

#### **Description of Area:**

This area of crown land is located south of Glovertown; it is accessed from the TCH (Route 1) via the Terra Nova Resource Road. Access to the Terra Nova Resource road is proposed via the Newfoundland Trailway. The terrain varies from rolling to hilly. The merchantable forest stands are comprised of 100% pure black spruce. The area is located in the North Central Subregion of the Central Newfoundland Forest Ecoregion.

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#### **Harvesting Activities:**

Commercial activity will include pulpwood, sawlog and fuelwood harvesting using chainsaws and mechanical harvester with extraction by forwarder.

Inventory Softwood Volume: 88,318 m<sup>3</sup>

Inventory Hardwood Volume: N/A

Proposed Softwood Volume: 61,057 m<sup>3</sup>

Proposed Hardwood Volume: 1,900 m<sup>3</sup>

Difference from Inventory to Proposed Volume: 31%

Rationale for Difference: Inventory adjustment and harvesting constraints.

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#### **Silviculture Activities:**

Reconnaissance surveys will be carried out on existing and new cutovers and regeneration stands to determine the need for planting and/or thinning. Suitable cutovers that are not satisfactorily regenerated will be candidates for site preparation and planting and /or gap planting and suitable regeneration stands will be candidates for thinning. All potential silviculture areas are identified on the operations area maps.

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#### **Primary Forest Access Road Construction:**

Access road construction in this area will typically be carried out under government contract primarily utilizing excavators. The majority of the fill requirements will come from the road right of (ROW). In the event that material is required from outside the ROW (i.e. gravel pits), it will be done under permit from the Mineral Lands Branch.

Proposed 5 year access road construction: 9.5km

Proposed 5 year stream crossings: 7

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#### **Non timber Considerations and Mitigations:**

A 30 meter buffer will be maintained on both sides of all rivers, brooks, ponds or other water bodies that are shown on 1:50,000 topographic maps.

On water bodies where an approved cabin development area exists, a 105 meter buffer must be maintained along the shoreline.

Where an approved license to occupy for a cabin exists, a 20 meter buffer is to be maintained.

No forestry activity is to occur within 800 meters of a bald eagle or osprey nest during the nesting season (Mar 15 to July 31) and 200 meters during the remainder of the year.

<b>Operating Area Name: Chain Pond East</b>	<b>Operating Area # CCO5016</b>
<b>NFS Inventory Map #: 9013, 9023</b>	<b>NTS Map #: 2D/9 Glovertown</b>

#### **Description of Area:**

This area of crown land is located south of Glovertown; it is accessed from the TCH (Route 1) via the Newfoundland Trailway. It is located between Chain Pond and the T'railway East block (CC05011). The terrain is rugged. The merchantable forest stands are comprised of 89% softwood with 11% hardwood. The area is located in the North Central Subregion of the Central Newfoundland Forest Ecoregion.

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#### **Harvesting Activities:**

Commercial activity will include pulpwood, sawlog and fuelwood harvesting using chainsaws and mechanical harvester with extraction by forwarder.

Inventory Softwood Volume: 14,610 m<sup>3</sup>

Inventory Hardwood Volume: N/A

Proposed Softwood Volume: 8,000 m<sup>3</sup>

Proposed Hardwood Volume: 1,000 m<sup>3</sup>

Difference from Inventory to Proposed Volume: 46%

Rationale for Difference: inventory adjustment and harvest constraints with field assessment.

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#### **Silviculture Activities:**

Reconnaissance surveys will be carried out on existing and new cutovers and regeneration stands to determine the need for planting and/or thinning. Suitable cutovers that are not satisfactorily regenerated will be candidates for site preparation and planting and /or gap planting and suitable regeneration stands will be candidates for thinning. All potential silviculture areas are identified on the operations area maps.

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#### **Primary Forest Access Road Construction:**

Access road construction in this area will typically be carried out under government contract primarily utilizing excavators. The majority of the fill requirements will come from the road right of (ROW). In the event that material is required from outside the ROW (i.e. gravel pits), it will be done under permit from the Mineral Land Division.

Proposed 5 year access road construction: 1.5 km

Proposed 5 year stream crossings: 0

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#### **Non timber Considerations and Mitigations:**

A 30 meter buffer will be maintained on both sides of all rivers, brooks, ponds or other water bodies that are shown on 1:50,000 topographic maps.

On water bodies where an approved cabin development area exists, a 105 meter buffer must be maintained along the shoreline.

Where an approved license to occupy for a cabin exists, a 20 meter buffer is to be maintained.

No forestry activity is to occur within 800 meters of a bald eagle or osprey nest during the nesting season (Mar 15 to July 31) and 200 meters during the remainder of the year.

<b>Operating Area Name: Turkey Farm</b>	<b>Operating Area # CC05017</b>
<b>NFS Inventory Map #: 7841. 7831</b>	<b>NTS Map #: 2D/16 Gambo</b>

**Description of Area:**

This area of crown land is located on the western side of Bonavista North; it is accessed from Gander Bay Road via the Boot Pond Resource Road. It is located on east side of the Gander Bay Highway. The terrain varies from rolling to hilly. The merchantable forest stands are comprised of 50% pure black spruce, with 20% softwood dominated mixed and 30% hardwood dominated mixed. The area is located in the North Central Subregion of the Central Newfoundland Forest Ecoregion.

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**Harvesting Activities:**

Commercial activity will include pulpwood, sawlog and fuelwood harvesting using chainsaws and mechanical harvester with extraction by forwarder.

Inventory Softwood Volume: 9,257 m<sup>3</sup>

Inventory Hardwood Volume: N/A

Proposed Softwood Volume: 9,257m<sup>3</sup>

Proposed Hardwood Volume: 3,400 m<sup>3</sup>

Difference from Inventory to Proposed Volume: %

Rationale for Difference:

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**Silviculture Activities:**

Reconnaissance surveys will be carried out on existing and new cutovers and regeneration stands to determine the need for planting and/ or thinning. Suitable cutovers that are not satisfactorily regenerated will be candidates for site preparation and planting and /or gap planting and suitable regeneration stands will be candidates for thinning. All potential silviculture areas are identified on the operations area maps.

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**Primary Forest Access Road Construction:**

No access road construction.

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**Non timber Considerations and Mitigations:**

As per regulations under ENVC all commercial and domestic operations that are associated with the Town of Gander, Appleton and Glenwood Protected Water Supply (PPWSA), Gander Lake will be done with consultation with the town and under a Permit for Development from ENVC, Water Resources Management Division.

A 30 meter buffer will be maintained on both sides of all rivers, brooks, ponds or other water bodies that are shown on 1:50,000 topographic maps.

On water bodies where an approved cabin development area exists, a 105 meter buffer must be maintained along the shoreline.

Where an approved license to occupy for a cabin exists, a 20 meter buffer is to be maintained.

No forestry activity is to occur within 800 meters of a bald eagle or osprey nest during the nesting season (Mar 15 to July 31) and 200 meters during the remainder of the year.

<b>Operating Area Name: Rocky Pond South A</b>	<b>Operating Area # CC05019</b>
<b>NFS Inventory Map #: 9012, 9022</b>	<b>NTS Map #: 2D/9 Glovertown</b>

**Description of Area:**

This area of crown land is located south of Glovertown; it is accessed from the TCH (Route 1) via the Terra Nova Resource Road. Access to the Terra Nova resource Road is via the Newfoundland Trailway. The terrain varies from rolling to hilly. The merchantable forest stands are comprised of 50% pure black spruce with 50% Blackspruce dominated mixed. The area is located in the North Central Subregion of the Central Newfoundland Forest Ecoregion.

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**Harvesting Activities:**

Commercial activity will include pulpwood, sawlog and fuelwood harvesting using chainsaws and mechanical harvester with extraction by forwarder.

Inventory Softwood Volume: N/A

Inventory Hardwood Volume: N/A

Proposed Softwood Volume: 5,800m<sup>3</sup>

Proposed Hardwood Volume: 0 m<sup>3</sup>

Difference from Inventory to Proposed Volume: %

Rationale for Difference:

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**Silviculture Activities:**

Reconnaissance surveys will be carried out on existing and new cutovers and regeneration stands to determine the need for planting and/or thinning. Suitable cutovers that are not satisfactorily regenerated will be candidates for site preparation and planting and /or gap planting and suitable regeneration stands will be candidates for thinning. All potential silviculture areas are identified on the operations area maps.

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**Primary Forest Access Road Construction:**

Access road construction in this area will typically be carried out under government contract primarily utilizing excavators. The majority of the fill requirements will come from the road right of (ROW). In the event that material is required from outside the ROW (i.e. gravel pits), it will be done under permit from the Mineral Land Branch.

Proposed 5 year access road construction: 1.4 km

Proposed 5 year stream crossings: 1

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**Non timber Considerations and Mitigations:**

A 30 meter buffer will be maintained on both sides of all rivers, brooks, ponds or other water bodies that are shown on 1:50,000 topographic maps.

On water bodies where an approved cabin development area exists, a 105 meter buffer must be maintained along the shoreline.

Where an approved license to occupy for a cabin exists, a 20 meter buffer is to be maintained.

No forestry activity is to occur within 800 meters of a bald eagle or osprey nest during the nesting season (Mar 15 to July 31) and 200 meters during the remainder of the year.

<b>Operating Area Name: Chain Pond South</b>	<b>Operating Area # CC05020</b>
<b>NFS Inventory Map #: 9012, 9013</b>	<b>NTS Map #: 2D/9 Glovertown</b>

#### **Description of Area:**

This area of crown land is located south of Glovertown; it is accessed from the TCH (Route 1) via the Terra Nova Resource Road. It is located on the southwest corner of Chain Pond and is adjacent to the silviculture block *Chain Pond West* (CC05012b). The terrain varies from rolling to hilly. The merchantable forest stands are comprised of 90% pure black spruce with 5% hardwood dominated mixed and 5% softwood dominated mixed. The area is located in the North Central Subregion of the Central Newfoundland Forest Ecoregion.

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#### **Harvesting Activities:**

Commercial activity will include pulpwood, sawlog and fuelwood harvesting using chainsaws and mechanical harvester with extraction by forwarder.

Inventory Softwood Volume: 20,365 m<sup>3</sup>

Inventory Hardwood Volume: N/A

Proposed Softwood Volume: 14,500 m<sup>3</sup>

Proposed Hardwood Volume: 1,400 m<sup>3</sup>

Difference from Inventory to Proposed Volume: 29%

Rationale for Difference: Inventory adjustment and harvest constraints.

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#### **Silviculture Activities:**

Reconnaissance surveys will be carried out on existing and new cutovers and regeneration stands to determine the need for planting and/or thinning. Suitable cutovers that are not satisfactorily regenerated will be candidates for site preparation and planting and /or gap planting and suitable regeneration stands will be candidates for thinning. All potential silviculture areas are identified on the operations area maps.

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#### **Primary Forest Access Road Construction:**

Access road construction in this area will typically be carried out under government contract primarily utilizing excavators. The majority of the fill requirements will come from the road right of (ROW). In the event that material is required from outside the ROW (i.e. gravel pits), it will be done under permit from the Mineral Land Branch.

Proposed 5 year access road construction: 4 km

Proposed 5 year stream crossings: 3

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#### **Non timber Considerations and Mitigations:**

A 30 meter buffer will be maintained on both sides of all rivers, brooks, ponds or other water bodies that are shown on 1:50,000 topographic maps.

On water bodies where an approved cabin development area exists, a 105 meter buffer must be maintained along the shoreline.

Where an approved license to occupy for a cabin exists, a 20 meter buffer is to be maintained.

No forestry activity is to occur within 800 meters of a bald eagle or osprey nest during the nesting season (Mar 15 to July 31) and 200 meters during the remainder of the year.

<b>Operating Area Name:</b> Blade Road	<b>Operating Area #</b> CC05018
<b>NFS Inventory Map #:</b> 7841	<b>NTS Map #:</b> 2D/16 Gambo

#### **Description of Area:**

This area of crown land is located on the western side of Bonavista North; it is accessed from Gander Bay Road via the Boot Pond Resource Road. It is located on the East side of the Gander Bay Highway. The terrain varies from rolling to hilly. The merchantable forest stands are comprised of 60% pure black spruce, 21 % softwood dominated mixed and 19% hardwood dominated mixed. The area is located in the North Central Subregion of the Central Newfoundland Forest Ecoregion.

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#### **Harvesting Activities:**

Commercial activity will include pulpwood, sawlog and fuelwood harvesting using chainsaws and mechanical harvester with extraction by forwarder.

Inventory Softwood Volume: 10,559 m<sup>3</sup>

Inventory Hardwood Volume: N/A

Proposed Softwood Volume: 10,475 m<sup>3</sup>

Proposed Hardwood Volume: 2,700 m<sup>3</sup>

Difference from Inventory to Proposed Volume: 1%

Rationale for Difference: Inventory adjustment and harvesting constraints.

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#### **Silviculture Activities:**

Reconnaissance surveys will be carried out on existing and new cutovers and regeneration stands to determine the need for planting and or thinning. Suitable cutovers that are not satisfactorily regenerated will be candidates for site preparation and planting and /or gap planting and suitable regeneration stands will be candidates for thinning. All potential silviculture areas are identified on the operations area maps.

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#### **Primary Forest Access Road Construction:**

Access road construction in this area will typically be carried out under government contract primarily utilizing excavators. The majority of the fill requirements will come from the road right of (ROW). In the event that material is required from outside the ROW (i.e. gravel pits), it will be done under permit from the Mines Branch of the Department of Natural Resources. No stream crossings will be required.

Proposed 5 year access road construction: 1.4 km

Proposed 5 year access road reconstruction: 1.4 km

Proposed 5 year stream crossings: 0

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#### **Non timber Considerations and Mitigations:**

As per regulations under ENVC all commercial and domestic operations that are associated with the Town of Gander, Appleton and Glenwood Protected Water Supply (PPWSA), Gander Lake will be done

with consultation with the town and under a Permit for Development from ENVC, Water Resources Management Division.

A 30 meter buffer will be maintained on both sides of all rivers, brooks, ponds or other water bodies that are shown on 1:50,000 topographic maps.

On water bodies where an approved cabin development area exists, a 105 meter buffer must be maintained along the shoreline.

Where an approved license to occupy for a cabin exists, a 20 meter buffer is to be maintained.

No forestry activity is to occur within 800 meters of a bald eagle or osprey nest during the nesting season (Mar 15 to July 31) and 200 meters during the remainder of the year.

<b>Operating Area Name: Southwest Pond</b>	<b>Operating Area # CC050015</b>
<b>NFS Inventory Map #: 7833</b>	<b>NTS Map #: 2D/16 Gambo</b>

#### **Description of Area:**

This area of crown land is located in Eastern side of Bonavista North; it is accessed remotely via snowmobile and in future from the Southwest Pond CBPPL proposed access road. It is located on the southwest side of Southwest Pond. The terrain varies from rolling to hilly with bog. The merchantable forest stands are comprised of 70% pure black spruce with 18% softwood dominated mixed and 12% hardwood dominated mixed. The area is located in the North Central Subregion of the Central Newfoundland Forest Ecoregion.

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#### **Harvesting Activities:**

Commercial activity will include pulpwood, sawlog and fuelwood harvesting using chainsaws and mechanical harvester with extraction by forwarder. A small amount of domestic harvesting could occur once commercial harvesting is completed. This would likely occur in the winter using chainsaws with extraction by snowmobile or ATV.

Inventory Softwood Volume: 11,458 m<sup>3</sup>

Inventory Hardwood Volume: N/A

Proposed Softwood Volume: 4,000 m<sup>3</sup>

Proposed Hardwood Volume: 1,000 m<sup>3</sup>

Difference from Inventory to Proposed Volume: 65%

Rationale for Difference: Inventory adjustment, harvesting constraints and field assessment.

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#### **Silviculture Activities:**

Reconnaissance surveys will be carried out on existing and new cutovers and regeneration stands to determine the need for planting and/or thinning. Suitable cutovers that are not satisfactorily regenerated will be candidates for site preparation and planting and /or gap planting and suitable regeneration stands will be candidates for thinning. All potential silviculture areas are identified on the operations area maps.

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#### **Primary Forest Access Road Construction:**

No access road construction is proposed.

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#### **Non timber Considerations and Mitigations:**

A 30 meter buffer will be maintained on both sides of all rivers, brooks, ponds or other water bodies that are shown on 1:50,000 topographic maps.

On water bodies where an approved cabin development area exists, a 105 meter buffer must be maintained along the shoreline.

Where an approved license to occupy for a cabin exists, a 20 meter buffer is to be maintained.

No forestry activity is to occur within 800 meters of a bald eagle or osprey nest during the nesting season (Mar 15 to July 31) and 200 meters during the remainder of the year.