

PARKS CANADA
SPECIFICATION FOR WINTER ROADS AND PARKING LOT MAINTENANCE
Dalvay
PRINCE EDWARD ISLAND NATIONAL PARK

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1. Description of Work
 - .1 Work under this contract consists of snow clearing, salting and sanding for park roads and parking lots in Prince Edward Island National Park, as identified below. Work under this contract consists of snow clearing and spreading of sand and salt in the Dalvay sector of Prince Edward Island National Park, Prince Edward Island
 - .2 Work consists of the following roads and parking areas in the Dalvay sector:
 - .1 Gulf Shore Parkway (GSP) East from Brackley Beach Pumphouse to Eastern Road in Dalvay end. (Secondary access lanes at Dalvay Kiosk is excluded).
Double lane paved. Map # 1.
12.4 km
 - .2 Bayshore Road from GSP East to MacMillan Lane (excludes secondary access lane at Bayshore Entrance Kiosk).
Double lane paved. Map # 2.
0.2 km
 - .3 MacMillan Lane
Double lane paved. Map # 2.
0.5km
 - .4 Ross Lane:
 - a) Connector Road from Ross Lane to GSP East (including parking spaces on east and west sides)
Double lane paved. Map # 3.
0.1km and
 - b) Ross Lane
Double lane paved. Map # 3.
0.9km
 - .5 Dalvay Crescent
Double lane paved. Map # 4.
0.7km
 - .6 Winter Road
Single lane, gravel. Map # 4.
0.8km

- .7 Snow clearing, and salting / sanding of the parking areas in the Dalvay sector to the Level of Service in HC01006 :
 - .1 Shaws Beach Parking Lot - parking for 10 vehicles as per Map # 5. Total area:
800 square meters.
 - .2 Covehead Wharf Road including a turnaround area on wharf as per Map # 6 . Total area of wharf road plus turnaround :
2,000 square meters.
 - .3 Dalvay Parking Lots Map # 7
 - A) Paved Office Parking Lot
Area = **1,500 square meters**
 - B) Gravel Office Parking Lot
Area = **2,000 square meters**
 - .4 Bubbling Springs Parking Lot Map # 8
Gravel surface, two lanes wide, with parking space for 10 cars. Area = **1,300 square meters**

2. Start and Completion Dates and Hours of Operation
 - .1 Start Date - November 15, 2016
Completion Date - April 15, 2019.
 - .2 The roads will be maintained annually at the Specified Level of Service from November 15 to April 15 for each winter during that period.
 - .3 The roads must be open for traffic for the periods specified, except under severe weather conditions.
 - .4 Extended Season : Contractor should be prepared to carry out winter road maintenance operations prior to 12:01 am November 15th and after 11:59PM April 15th at the discretion of PCA, with remuneration as set out in the PEI Department of Transportation and Public Works Machinery Rental Rates Handbook.

3. Temporary Traffic Signs
 - .1 Without extra cost to Parks Canada, make suitable provisions to accommodate traffic, either pedestrian or vehicular, over or around any maintenance area of highway upon which work is being performed in a manner satisfactory to the Parks Canada Representative.
 - .2 Barricades, signs, delineators, warning lights, flag person's paddles and other devices shall be in strict accordance with PART D of manual Uniform Traffic Control Devices for Canada, (Metric Edition), distributed by Transportation Association of Canada (TAC).

- .3 Signs, barricades, delineators and flag person's paddles shall be reflectorized to show same shape and colour by night as by day.
 - .4 Traffic control signs will be bilingual or symbolic.
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4. National Parks Act

 - .1 All work performed shall be in accordance with the Canada National Parks Act
 5. Environmental Protection

 - .1 Because this work is in a National Park, it is essential lands remain in as natural a state as possible. The Contractor is to take special care to protect existing structures, and shall notify the Parks Canada Representative immediately of any damage to structures, historic or natural resources during maintenance activity. The Contractor shall repair any and all damages caused by his personnel or equipment, to the conditions that existed before the damages occurred. The contractor will be advised in writing by the Parks Canada Representative of the urgency of the repair and the time required for completion of repair. If the contractor fails to complete repairs within the time agreed, the Parks Canada Representative will authorize the repairs to be completed by Parks Canada and have the cost deducted from the contractor's payment.
 - .2 Exercise special care to avoid damage to trees, shrubs and vegetation outside of roadway. Should damage occur, restore area to satisfaction of Parks Canada Representative. If Contractor does not restore any damaged areas to satisfaction of the Parks Canada Representative, the work will be undertaken by other means, at the expense of Contractor.
 6. Disposal of Wastes

 - .1 Disposal of waste or volatile materials into waterways is prohibited.
 - .2 Disposal of waste petroleum products and litter will be at suitable locations outside Park in accordance with applicable environmental regulations and standards.

7. Safety Measures
- .1 The Contractor or his agent (s) must act in conformity with all applicable legislation, including but not limited to, the Canada National Parks Act, The Roads Act, Vehicle Weights Regulations made pursuant thereto, Prince Edward Island Highway Traffic Act, Canada Labour Code, Occupational Health and Safety Act and all regulations pursuant to.
 - .2 In the event of conflict between any provisions of the above authorities, most stringent provisions will apply
8. Sources and Stockpiling of Material & Vehicles
- .1 The Contractor is required to supply all sand and salt as well as store the same outside the Park boundaries in an environmentally approved manner in accordance with applicable Provincial and Federal guidelines and regulations.
 - .2 The Contractor is to make own arrangements with authorities or owners of private properties for storing and transportation of materials and machinery necessary for work over their property, roads, or streets, and be responsible for obtaining and payment of applicable fees and permits.
 - .3 It is the Contractor's responsibility to have sufficient material on hand to meet the requirements of this contract and anticipate the varied conditions which may be experienced on Prince Edward Island.
 - .4 The contractor will be permitted to store up to 2 snow removal vehicles in the fenced maintenance compound at Dalvay. These vehicles must be used on this contract in PEI National Park. A key to the gate will be provided to the contractor.
9. Contractor's Representative
- .1 Contractor shall continuously have an authorized representative to whom communications may be addressed and who will be competent to speak for the Contractor in discussing work and work methods during the period of the Contact.
10. Weight Restrictions
- .1 Observe applicable Provincial Government Weight Restrictions on highways and bridges.
11. Speed Restrictions
- .1 Observe posted speed limit signs within and outside project limit.

12. Park Signs
 - .1 Maintain existing signs erected by Park Administration. When it is necessary to remove a sign to enable maintenance work to proceed in its vicinity, dismantle sign, and re-establish it on a temporary post or stand set back from construction area or transport and stockpile signs in designated storage area as directed by Parks Canada Representative. This work is considered to be incidental and no separate payment to be made for maintaining and moving Park signs.

13. Markers and Cedar Posts
 - .1 Maintenance and replacement of markers placed either by Parks or by the Contractor are the responsibility of the Contractor.
 - .2 Any cedar posts broken by the Contractor along the Gulf Shore Parkway because of a lack of reasonable care and control of equipment are to be replaced by the Contractor, at no cost to Parks. Replacement will include removal and disposal off-site of damaged posts, and supply and installation of new posts. A small number of posts are expected to be broken through the course of the winter because of drifting and poor visibility, and will be replaced by Parks at no cost to the contractor. Parks and the contractor will assess the level of damage to posts each spring, and come to agreement on responsibility for replacement.

14. Codes and Standards
 - .1 Materials and workmanship must conform to or exceed applicable standards of Canadian Government Specifications Board (CGSB), Canadian Standards Association (CSA), American Society for Testing and Materials (ASTM), American Association of State Highway and Transportation Officials (AASHTO) and other referenced organizations.
 - .2 Conform to latest revision of dated referenced standard as reaffirmed or revised to date of advertising of this specification. Standards or codes not dated shall be deemed editions in force on that date.

15. Equipment Rental
 - .1 Make available to Parks Canada Representative upon written request, equipment which he may wish to rent to carry out work beyond scope of bid items. Rental rates will be in accordance with the current PEI Department of Transportation & Public Works Machinery Rental Rates Handbook. Hourly rental of equipment will be measured in actual time worked and necessary traveling time of equipment within limits of the Park.

16. Communications
- .1 All patrol, plowing and sanding units shall be equipped with cellular phones or radios.
 - .2 Contractor's supervisor to be available by phone / pager 24 hours per day during the term of the contract.

17. Contract Pre-Conditions

As a condition of Parks Canada awarding this contract, the Contractor agrees to supply Parks Canada with the following documentation prior to commencing this contract:

- a) a certified copy of the Contractor's current liability insurance policy or renewal certificate; a certified copy of all renewals shall be submitted by the Contractor as required during the term of this contract;
- b) a list of equipment which the Contractor proposes using to carry out the contract. List must indicate the Make, Model, Year of Manufacture, and Engine Hours (Engine Hours as applicable) of all pieces of equipment.
- c) copy of the valid registration and inspection for each year of the term of the contract;
- d) a list of winter operators and confirmation that they have a valid driver's license of the appropriate class;
- e) location of equipment and map of plow route(s) indicating roads plowed by each operator and the sequence in which plowed (first to last).
- f) the name of the Contractor's representative and/or alternate, and a cellular phone and/or a pager for 24 / 7 communication for both.

18. Climatic Information

- .1 The Contractor is advised to consult Environment Canada's website for climatic information, at <http://www.climate.weatheroffice.ec.gc.ca>
- .2 The closest Environment Canada weather station to the work area is Stanhope.

19. Snowfall Adjustment

.1 If the snowfall amount for the winter, as recorded by Environment Canada at the weather station closest to the contract area, exceeds 285 cm, then the Contractor shall receive an additional payment of \$ 2.00 per centimeter per total contract kilometers. If for example the total snowfall was 385 cm, and the total contract kilometers was 10 km, then the additional payment would be : \$

$$2/\text{cm}/\text{km} \times 100 \text{ cm} \times 10 \text{ km} = \$ 2,000.$$

.2 No penalty will be levied against this contract if recorded snowfall is less than 285 cm from November 15 to April 15.

.3 Any annual snowfall adjustment will be made on the final contract payment.

20. Extra Work

Equipment dispatched by the Contractor, or requested to be dispatched by Parks Canada, for legitimate emergencies will be considered as extra work. Payment for this work will be on a rental basis as per the PEI Department of Transportation & Public Works Machinery Rental Rates Handbook.

21. Site Meeting

A site meeting will be held at the Parks Canada Dalvay Administration Building. See tender call documents for date and time. Address : 40 Dalvay Crescent, Dalvay PEI. At this meeting we will review the tender documents and answer any questions bidders have on the tender. This meeting is not mandatory but is strongly recommended so that all bidders fully understand the nature of the work prior to bidding.

PART 1 - GENERAL

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|-----|---------------------|----|---------------|---------|
| 1.1 | <u>Related Work</u> | .1 | Road Patrol | HC01007 |
| | | .2 | Snow clearing | HC01008 |
| | | .3 | Sanding | HC01009 |

PART 2 - LEVEL OF SERVICE

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|-----|---------------------------|----|---|--|
| 2.1 | <u>General</u> | .1 | In general, the classes of roads under this contract and the corresponding level of service are as outlined in section 2.5. | |
| 2.2 | <u>Co-ordination</u> | .1 | Work under this contract is governed by these specifications. Any discrepancies in levels of service must be brought to the attention of the Park immediately | |
| 2.3 | <u>Hours of Operation</u> | .1 | Normal hours of operation for winter maintenance activities under this contract shall be 5 AM to 12 Midnight. | |
| 2.4 | <u>Parking Areas</u> | .1 | Parking areas to be plowed are shown on Maps. | |
| | | .2 | Snow removal in parking areas must be done so as to avoid piling snow on or against fences, buildings and trees. | |

- 2.5 Service Levels and Standards
- .1 Snow removal will be performed by the contractor, as required, on roads to ensure roads are kept smooth, safe and open to the travelling public. The efficient removal of snow and slush from travelled lanes and road shoulders to prevent ice build-up has a dramatic effect on ice control costs.
 - .2 Work will commence according to the Service Levels as defined below :
 - .1 Class “B” Roads – Primary Objective is to provide travel lanes bare. To attain this objective, plowing will commence when snow accumulations reach a depth of 2.5 cm.
 - .2 Plowing is to continue with travel lanes maintained to a maximum depth accumulation of 8.0 cm.
 - .3 Plowing will continue at night until such time as majority of traffic is off road. The Contractor will be the sole determining factor of when plows will be pulled of roads. Weather permitting plowing operations will resume in morning as to allow plows time to complete one return trip of entire run prior to normal morning traffic patterns. Primary Objective is to be met within 24 hours after end of snowfall, whenever possible.
 - .4 Sanding Rates on Class “B” Roads : To provide continuous sanding when required, and if necessary, of center 2.5m of road surface at a rate of 400 kg per km (1400 lb/mile) of road. Contractor will determine when to sand, in accordance with Table A below :

TABLE A :

Temperature	Pavement Condition	Precipitation	Instruction	Sand Application Guidelines
0° and above	Wet	Snow	Plow, then sand	Sand hills, curves, intersections, slippery spots.
		Freezing Rain	Sand	Sand full length of road
- 4° to 0° C	Wet	Snow	Plow, then sand	Sand hills, curves, intersections, slippery spots.
		Freezing Rain	Sand	Sand full length of road
- 7° to -4° C	Wet	Snow	Plow, then sand	Sand hills, curves, intersections, slippery spots.
- 10° to - 7° C	Dry	Snow	Plow, then sand	Sand hills, curves, intersections, slippery spots.
Below - 10° C	Snow packed	Nil	Plow, then sand	Sand hills, curves, intersections, slippery spots.
	Dry	Snow	Plow, then sand	Sand hills, curves, intersections, slippery spots.

- .4 In certain severe weather conditions, Parks Canada will instruct the Contractor to salt the roads rather than sand. The Contractor is to include the cost of supplying and spreading twenty (20) tonnes of salt in the contract price. Salt application rate to be determined by Parks Canada. Salt is to meet the specifications indicated in HCO1009.
- .5 Parking Areas : Parking areas to be plowed by 7am. Ice control to be carried out for all parking areas as required to ensure areas are safe.

PART 1 - GENERAL

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|-----|---------------------|------------------------|---------|
| 1.1 | <u>Related Work</u> | .1 Level of Service | HC01006 |
| | | .2 Snow clearing | HC01008 |
| | | .3 Sanding and Salting | HC01009 |

PART 2 - EXECUTION

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|-----|----------------------------|---|--|
| 2.1 | <u>Patrol Vehicle</u> | .1 The Contractor will be required to monitor snowfall and road condition and to dispatch plows, salting and sanding equipment to achieve the Level of Service specified in Section HC01006. | |
| 2.2 | <u>Frequency of Patrol</u> | .1 Patrols will be carried out on each road at least once per day; more frequently during periods of snow, blowing snow and freezing rain. | |
| 2.3 | <u>Reporting</u> | .1 Any damage to guiderail, bridges, culverts, etc. observed during routine road patrol will be reported to the Parks Canada Representative that same day. | |
| | | .2 All patrols shall be documented on forms supplied by Parks Canada. (See Appendix 1) | |
| | | .3 All snow clearing, salting and sanding operations are to be reported on forms supplied by Parks Canada. (See Appendix 2). These reports shall include date, time, equipment used and sand/salt quantities. | |

PART 1 - GENERAL

1.1	<u>Related Work</u>	.1	Level of Service	HC01006
		.2	Road Patrol	HC01007
		.3	Salting and Sanding	HC01009
		.4	Scarifying	HC01010

PART 2 - EXECUTION

2.1	<u>Width to be Maintained</u>	.1	For the duration of the contract, the width to be maintained is that of the pavement width plus the shoulder. Snow banks will be kept to the outside edge of the shoulder to ensure that any water created by thawing conditions can readily drain from the highway surface.	
2.2	<u>Operation Procedure</u>	.1	The Contractor must start operations at the beginning of each snow fall and plow continuously as long as it is snowing and as often as necessary to permit the flow of traffic as per the Level of Service, Section HC01006.	
2.3	<u>Potential Danger Areas</u>	.1	The Contractor must pay great attention to the care of potentially dangerous areas such as narrow cuttings, curves, guide rails, bridges, intersections, stop signs, etc. so as to prevent accidents and avoid damage to these features.	
2.4	<u>After Snowfall</u>	.1	After each snowfall, the Contractor must continue to remove snow to the service level required. In order to prevent, as much as possible, the formation of drifts the Contractor must lower the snow banks on each side of the road. Moreover intersections must be cleared to ensure adequate visibility.	
2.5	<u>Slush</u>	.1	All roads shall be plowed in such a manner as to have a smooth traveling surface. When roads are slush covered it will be the Contractor's responsibility to remove all slush that develops either because of precipitation or because of thawing of snow built-up on the roads.	

- 2.6 Removal of Plows .1 The removal of snow plows from the road under severe conditions, visibility less than 200 m, is to be on a consultative basis with the Parks Canada Representative and the PEI Department of Transportation & Public Works.
- 2.7 Snow Plow Markers .1 The Contractor is required to provide, place and remove markers to protect guardrails, bridges, etc. The care of these markers will be the Contractor's responsibility.
- .2 Markers shall be 50 mm X 50 mm wood stakes approximately 1.5 m in height with reflectors.
- 2.8 Signs .1 The clearing away of snow obscuring the legibility of signs is the Contractor's responsibility.

PART 3 - EQUIPMENT REQUIREMENTS

- 3.1 Plow Truck .1 The plow truck shall be equipped with a one-way plow and wing, safety lights, warning signs and other safety features to Prince Edward Island Department of Transportation and Public Works standards.
- .2 The vehicle must comply in all respects with the Highway Traffic Act regulations of Prince Edward Island.
- .3 Vehicle to comply with applicable Canadian Motor Vehicle Safety Standards.
- .4 An inspection of all equipment to be used for snow clearing will be completed and approved by an authorized Park representative, or a commercial garage selected by Parks Canada.

- 3.2 Plow Truck Attachments .1 The plow truck shall be equipped with a salt spreader complete with electronic spreader controls that are regulated to ground speed.
- .2 The push frame to be constructed from 4" X 4" X 3/8" steel tubing, 2 compression coils springs to provide a safety trip (the springs must have safety retainer tubes to prevent projectile), oscillating bar to permit plow to follow the contour of the road and 2 adjustable push shoes of NI-HARD cast iron.
- 3.3 Condition of Equipment .1 All equipment must be in good working order.
- 3.4 Replacement Units .1 Replacement units must be available for immediate dispatch in the event of equipment breakdown. If that is not possible, Parks Canada reserves the right to have the work done by others, and to reduce the contract value by the cost of that work.

PART 1 - GENERAL

1.1	<u>Related Work</u>	.1 Level of Service	HC01006
		.2 Road Patrol	HC01007
		.3 Snow clearing	HC01008
		.4 Scarifying	HC01010

PART 2 - PRODUCTS

2.1 Salt Abrasives

.1 Salt used for maintenance purposes under this contract shall conform to the following requirements for Type 1 deicing salt as per ASTM standards.

.1 Chemical Composition;

Sodium Chloride (NaCl), min.. 94.0 %

.2 Physical Requirements;

<u>Sieve Size</u>	<u>Weight % Passing</u>
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20 000
14 000	100
10 000	95 to 100
5 000	20 to 90
2 500	10 to 60
630	0 to 10

2.2 Sand

.1 Sand used for maintenance purpose under this contract shall conform to the following requirements:

.3 Gradation to be within limits specified when tested;

Sieve Size	% Passing
9.52 mm	100
4.75 mm	98-87
2.36 mm	95-55
1.18 mm	90-30
.600 mm	70-10
.300 mm	38-0
.150 mm	18-0
.075 mm	7-0

Between the sieve sizes listed above, there shall be a maximum of only 35% difference between the percents passing consecutive sieves.

Crushed material Content: A minimum of thirty percent (30%) crushed imported sand or crushed local stone of equivalent quality must be used to manufacture this blended material. Accordingly, for the purpose of this blended winter sand specification, the definition of crushed shall mean a material having fractured faces, or similar natural angles, on 50% or more of the material retained on the 2.36 mm sieve.

This material must be blended with 60 kilograms of salt to 1 tonne of sand.

PART 2 - EXECUTION

- 2.1 Width to be Maintained .1 For the duration of the contract, the width to be salted or sanded is as specified in Section HC01006. Sand is to be applied in a 2.5m strip down the center, crown of a two-lane highway. On super-elevated sections (curves), the sand shall be kept as high up on the curve as possible
- 2.2 Operation Procedure .1 Salt shall be applied as per on-site instructions from Parks Canada during severe weather conditions
- 2.3 Potential Danger Areas .1 The Contractor must pay great attention to the care of potentially dangerous areas such as narrow cuttings, curves, guide rails, bridges, intersections, stop signs, etc. so as to prevent accidents and avoid damage to these features. Pre-salting should also be carried out in sun-melt areas.
- 2.4 After Snowfall .1 After each snowfall, the Contractor must continue to sand to the width required as per the Level of Service, Section HC01006.

PART 3 - EQUIPMENT REQUIREMENTS

- 3.1 Salt truck .1 The salt truck shall be equipped with a minimum 4 cubic meter box with electronic spreader controls that are regulated to ground speed, safety lights, warning signs and other safety features to Prince Edward Island Department of Transportation Standards.
- .2 The vehicle must comply in all respects with the Highway Traffic Act Regulations of Prince Edward Island.
- .3 Vehicle to comply with all applicable Canadian Motor Vehicle Safety Standards.
- .4 An inspection of all equipment to be used for snow clearing and salting/sanding will be completed and approved by an authorized Park representative, or a commercial garage selected by Parks Canada.
- 3.2 Condition of Equipment .1 All equipment must be in good working order.

3.3 Replacement Units

- .1 Replacement units must be available for immediate dispatch in the event of equipment breakdown. If that is not possible, Parks Canada reserves the right to have the work done by others, and to reduce the contract value by the cost of that work.

PART 1 - GENERAL

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|-------------------------|------------------------|---------|
| 1.1 <u>Related Work</u> | .1 Level of Service | HC01006 |
| | .2 Road Patrol | HC01007 |
| | .3 Snow clearing | HC01008 |
| | .4 Salting and Sanding | HC01009 |

PART 2 - EXECUTION

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|---|----|--|
| 2.1 <u>Conditions for Scarifying</u> | .1 | When cold, windy conditions are severe and there is considerable buildup of polished snow or ice, scarifying will be required on all highways. |
| | .2 | Scarifying should be done when the snow pack or ice build-up is so smooth and hard that sand will not stick to the surface. |
| 2.2 <u>Operation Procedure for Scarifying</u> | .1 | The procedure shall be carried out using a grader with a blade equipped with teeth to roughen and scarify the snow and ice pack. Do not damage asphalt surface. |
| 2.3 <u>Condition for Ice Removal</u> | .1 | When under thawing conditions ice builds up during colder period and forms potholes greater than 75 mm the ice shall be removed by grader using a summer blade to avoid damage to the road surface. Do not damage asphalt surface. |

PART 3 - EQUIPMENT REQUIREMENTS

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|-------------------|----|---|
| 3.1 <u>Grader</u> | .1 | The grader must be equipped with a wing. |
| | .2 | The vehicle must comply in all respects with the Highway Traffic Act regulations of Prince Edward Island. |
| | .3 | Vehicle to comply with all applicable Canadian Motor Vehicle Safety Standards. |

- .4 An inspection of all equipment to be used for scarifying will be completed and approved by an authorized Park representative, or a commercial garage selected by Parks Canada.
- .5 The grader shall be equipped with one rotating amber beacon located on the cab roof and four way flashing lights.
- .6 If a V-mounted plow is attached to the grader, the push frame to be constructed from 4" X 4" X 3/8" steel tubing, 2 compression coils springs to provide a safety trip (the springs must have safety retainer tubes to prevent projectile), oscillating bar to permit plow to follow the contour of the road and 2 adjustable push shoes of NI-HARD cast iron.

3.2 Condition of Equipment

- .1 All equipment must be in good working order.

3.3 Replacement Units

- .1 Replacement units must be available within 24 hours notice.

PARKS CANADA

DAILY WINTER MAINTENANCE ROAD REPORT
Dalvay Sector

DATE WEATHER

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SNOW start finish depth TEMPERATURE max min

PLOWING start finish WIND SPEED km/h

ROAD	pavement condition (%)					number of passes					
	Bare	centre bare	Snow covered	Snow packed	Ice	Speed plow	Grader	Blower	Wing back	Sand	Salt
Gulf Shore Parkway East											
Bayshore Road											
MacMillan Lane											
Ross Lane											
Dalvay Crescent											
Winter Road											
Shaws Beach											
Covehead Wharf Road											
Dalvay Parking Lots											
Bubbling Springs Parking Lot											

COMMENTS:

prepared by: _____

Maps