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## **1 STIKINE**

### **1.01 Definitions**

In these Local Area Specifications, capitalized terms will have the corresponding meanings as set out in Article 1 of this Agreement and Section 1 of this Schedule 1 (“Specifications”), and as set forth below:

**“Invasive Plants”** means any invasive alien plant species that has the potential to pose undesirable or detrimental impacts on humans, animals or ecosystems.

## **1.02 Highway Crossing Infrastructure**

### **1.02.1 Outcome**

To provide safe passage of pedestrians and animals underneath or beside a Highway.

### **1.02.2 Routine Maintenance Services**

- PM1.02.2-1** Respond immediately to restrict all access to Highway Crossing Infrastructure, as directed by the Province.
- PM1.02.2-2** Repair or replace immediately, as directed by the Province, any damaged or deteriorated Highway Crossing Infrastructure that has been structurally compromised, as determined by the Province.
- PM1.02.2-3** Repair or replace within 3 months, any damaged or deteriorated Highway Crossing Infrastructure that has not been structurally compromised, as determined by the Province.
- PM1.02.2-4** Remove Debris immediately from the surfaces of floors, pedestrian paths or stairways.
- PM1.02.2-5** Remove Accumulations, surface contaminants and chemicals by June 30 of each calendar year from all surfaces.
- PM1.02.2-6** Remove Debris within 1 month that impedes the passage of animals in animal accessed Highway Crossing Infrastructure.

### **1.02.3 Quantified Maintenance Services**

- PM1.02.3-1** Repair within 24 hours damaged or deteriorated surfaces on underpass floors, pedestrian paths or stairways.
- PM1.02.3-2** Repair within 6 months other damaged or deteriorated surfaces.

#### **Specific Requirements:**

- a) Maintain Highway Crossing Infrastructure within Rest Areas in accordance with the response of the adjacent Highway Classification.

### **1.02.4 Materials and/or Procedures**

Refer to Subsection 1.6 of this Schedule 1 ("Specifications").

Additional material and/or procedures requirements are as follows:

- a) Use materials in accordance with the same type and quality on the existing Highway Crossing Structure.

**1.02.5 Routine Maintenance Services Cap**

\$50,000 – for each occurrence, the cost to repair or replace Highway Crossing Infrastructure.

**1.02.6 Warranty**

Refer to Section 3 of this Schedule 1 (“Specifications”).

### 1.03 Invasive Plants Management

#### 1.03.1 Outcome

To minimize the introduction and spread of Invasive Plants on Highways and Gravel Pits.

#### 1.03.2 Routine Maintenance Services

**PM1.03.2-1** Meet annually, with the agency conducting Invasive Plant management for the Province, during development of the Quantified Maintenance Services to coordinate planned activities.

**PM1.03.2-2** Inspect all Gravel Pits and material sources annually to ensure they are free of Invasive Plants.

**PM1.03.2-3** Report Invasive Plant conditions to the agency conducting Invasive Plant management for the Province, as follows:

Performance Criteria	Response
a) Prior to the disturbance of knotweed species that restricts Sight Distance or creates a condition that is unsafe or has the potential to become unsafe	immediately
b) Any Invasive Plant infestations on Highways and Gravel Pits	2 d

**Notes:**

- 1) Only the exposed, active areas of the Gravel Pits are to be considered.

#### 1.03.3 Quantified Maintenance Services

**PM1.03.3-1** Seed specific areas of exposed soils exceeding 1 metre up the Shoulder sideslope and the backslope due to ditch maintenance.

**Notes:**

- 1) The Standard Specifications for Highway Construction describes the revegetation requirements including, but not limited to blending, seed analysis and application timing.

#### 1.03.4 Materials and/or Procedures

Refer to Subsection 1.6 of this Schedule 1 ("Specifications").

Additional materials and/or procedures requirements are as follows:

- a) Comply with the Best Practices for Managing Invasive Plants on Roadsides;

- b) Incorporate Invasive Plant management when planning and performing Quantified Maintenance Services;
- c) Seed side-cast ditch materials;
- d) Seek approval from the Province if disturbance of knotweed species is required;
- e) The Contractor may submit a plan for approval by the Province for the use of herbicides, as a control measure for knotweed or other Invasive Plants;
- f) Herbicides are to be applied by a certified pesticide applicator;
- g) Do not use gravel materials contaminated with Invasive Plants, unless a rectification process is submitted and approved by the Province; and
- h) Report Invasive Plants to the agency conducting Invasive Plant management for the Province online or using the Province's smartphone application or the provincial toll-free service.

#### **1.03.5 Warranty**

Refer to Section 3 of this Schedule 1 ("Specifications").

**1.04 Maintenance Exceptions – Compact****1.04.1 Outcome**

To proactively monitor, anticipate, manage and respond to Winter Accumulations and Compact to facilitate the safe and orderly flow of traffic.

**1.04.2 Routine Maintenance Services**

**PM1.04.2-1** Maintain #37 Cassiar Highway in accordance with General Specification 3.01 of this Schedule 1 (“Specifications”), with the exception of PM3.01.2-3.

## 1.05 Refuse Site Maintenance – Dease Lake

### 1.05.1 Outcome

To keep the Dease Lake refuse site well maintained and functioning.

### 1.05.2 Routine Maintenance Services

**PM1.05.2-1** Maintain the refuse site as follows:

Performance Criteria	Response
a) Different types of refuse (including, but not limited to scrap metal, timber, wood waste, batteries, appliances) are separated and stacked	monthly or more often when required
b) Refuse is deposited into the refuse pits	as per tipping schedule or more often when required
c) Refuse pits are compacted and covered	as per tipping schedule or more often when required
d) New refuse pits are dug	existing pits are at full capacity
e) Clean wood waste is burnt	maximum of 4 times annually
f) Scrap metal is crushed	monthly or more often when required
g) Loose Litter is collected from the landfill perimeter	twice annually or more often when required
h) Recycled materials are sorted and prepared for transport	as required

**PM1.05.2-2** Perform site attendant duties during open hours of operation.

#### Notes:

- 1) The refuse site is located approximately 1 kilometre north of Dease Lake, along the right side of Highway 37; and
- 2) The Province will arrange and coordinate with the Contractor, for the periodic removal of salvageable waste, including but not limited to tires, batteries and scrap metal.

### 1.05.3 Materials and/or Procedures

Additional materials and/or procedures requirements are as follows:

- a) Maintain the site in accordance with Ministry of Environment Permit PR-5425;
- b) Perform site attendant duties in accordance with the Dease Lake Refuse Site Information Sheet;
- c) Administer and manage the transport and tipping of household / commercial garbage bins; and



- d) Transport recycled materials to an off-site location for processing, as directed by the Province.

## **1.06 Small Airport Winter Maintenance – Atlin**

### **1.06.1 Outcome**

To provide winter maintenance on runways, taxiways and aprons to facilitate the safe operations of small airports.

### **1.06.2 Routine Maintenance Services**

- PM1.06.2-1** Respond to medivac flights or other emergency flights immediately, as directed by the airport operator, emergency responders, police authorities, or the Province.
- PM1.06.2-2** Remove Winter Accumulations in advance of the arrival and departure of flights from the runway, taxiway and apron.
- PM1.06.2-3** Maintain thickness of the Compact surface no greater than 50 mm for the runway, taxiway, apron, graded area, pre-threshold and parking area.
- PM1.06.2-4** Remove Winter Accumulations to ensure all lights and visual navigational aids, including but not limited to runway lights, approach lights, Runway Intersection Lights (RILS) and Visual Approach Slope Indicator Systems (VASIS) are clear, visible, and legible and function as designed.
- PM1.06.2-5** Remove snow drifts, snow piles or snow windrows to a location outside the airport boundary, as directed by the airport operator and the Province.

#### **Notes:**

- 1) The Atlin Airport is a year-round airport with a 1200 metre by 23 metre gravel surfaced runway that is operated by the Atlin Airport Society;
- 2) The Atlin Airport Society and the Province will advise the Contractor of the arrival and departure of flights; and
- 3) Refer to Schedule 18 ("Insurance Requirements") for insurance coverage requirements for the small airport winter maintenance.

### **1.06.3 Materials and/or Procedures**

Refer to Section 1.6 of this Schedule 1 ("Specifications").

Additional materials and/or procedures requirements are as follows:

- a) Comply with the Transport Canada Aeronautical Information Manual, Transport Canada Aerodrome Standards and Recommended Practices – Land Aerodromes 5<sup>th</sup> Edition, Transport Canada Airport Winter Maintenance and Planning Advisory Circular AC 302-013 and other Transport Canada Advisory Circulars;

- b) Perform winter maintenance in the following order of priority, except when resources allow performance in all areas simultaneously, or as approved by the airport operator:
- Runway;
  - Apron;
  - Holding bay;
  - Approach lights, RILS and VASIS;
  - Any emergency area; and
  - All other areas including but not limited to aircraft tie-down areas, taxiway, other roads and parking area.
- c) Remove Winter Accumulations from the 60 metre pre-threshold area on each end of the runway and 8 metres beyond each side of the runway, where the terrain permits;
- d) Deposit Winter Accumulations 8 metres beyond the edge of the runway, pre-threshold areas, taxiway and apron, where the terrain permits in accordance with Transport Canada requirements;
- e) Ensure Compact surface is uniform, smooth and safe for aircraft use with no damage to the underlying ground surface;
- f) Extend the maintained Compact surface 8 metres beyond the edge of the runway lights or graded area;
- g) Vehicles accessing the runways are to be equipped with required warning lights, able to communicate with the airport operator and able to monitor the Aerodrome Traffic Frequency (ATF) at all times; and
- h) Repair airport infrastructure, aircraft and property that is damaged by the Contractor.

#### **1.06.4 Routine Maintenance Service Cap**

\$0 – for each occurrence, the cost to respond to medivac flights or other emergency flights.

\$0 – for each occurrence, the cost to respond to greater than 6 requests for the removal of Winter Accumulations in each calendar year, not including responses to medivac flights or other emergency flights.

## **1.07 Small Airport Winter Maintenance – Bob Quinn**

### **1.07.1 Outcome**

To provide winter maintenance on runways, taxiways and aprons to facilitate the safe operations of small airports.

### **1.07.2 Routine Maintenance Services**

- PM1.07.2-1** Respond to medivac flights or other emergency flights immediately, as directed by the airport operator, emergency responders, police authorities, or the Province.
- PM1.07.2-2** Remove Winter Accumulations in advance of the arrival and departure of flights from the runway.
- PM1.07.2-3** Maintain thickness of the Compact surface no greater than 50 mm for the runway.
- PM1.07.2-4** Remove Winter Accumulations to ensure all lights and visual navigational aids, including but not limited to runway lights, approach lights, Runway Intersection Lights (RILS) and Visual Approach Slope Indicator Systems (VASIS) are clear, visible, and legible and function as designed.
- PM1.07.2-5** Remove snow drifts, snow piles or snow windrows to a location outside the airport boundary, as directed by the airport operator and the Province.

#### **Notes:**

- 1) The Bob Quinn Airport is a year-round airport with a 730 metre by 30 metre gravel surfaced runway that is operated by the Bob Quinn Airport Society;
- 2) The Bob Quinn Airport Society and the Province will advise the Contractor of the arrival and departure of flights; and
- 3) Refer to Schedule 18 ("Insurance Requirements") for insurance coverage requirements for the small airport winter maintenance.

### **1.07.3 Materials and/or Procedures**

Refer to Section 1.6 of this Schedule 1 ("Specifications").

Additional materials and/or procedures requirements are as follows:

- a) Comply with the Transport Canada Aeronautical Information Manual, Transport Canada Aerodrome Standards and Recommended Practices – Land Aerodromes 5<sup>th</sup> Edition, Transport Canada Airport Winter Maintenance and Planning Advisory Circular AC 302-013 and other Transport Canada Advisory Circulars;
- b) Deposit Winter Accumulations 8 metres beyond the edge of the runway;

- c) Ensure Compact surface is uniform, smooth and safe for aircraft use with no damage to the underlying ground surface;
- d) Vehicles accessing the runways are to be equipped with required warning lights and be able to communicate with the airport operator and able to monitor the Aerodrome Traffic Frequency (ATF) at all times; and
- e) Repair airport infrastructure, aircraft and property that is damaged by the Contractor.

#### **1.07.4 Routine Maintenance Service Cap**

\$0 – for each occurrence, the cost to respond to medivac flights or other emergency flights.

\$0 – for each occurrence, the cost to respond to greater than 6 requests for the removal of Winter Accumulations in each calendar year, not including responses to medivac flights or other emergency flights.

## **1.08 Small Airport Winter Maintenance – Dease Lake**

### **1.08.1 Outcome**

To provide winter maintenance on runways, taxiways and aprons to facilitate the safe operations of small airports.

### **1.08.2 Routine Maintenance Services**

- |                   |                                                                                                                                                                                                                                                                              |
|-------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>PM1.08.2-1</b> | Respond to medivac flights or other emergency flights immediately, as directed by the airport operator, emergency responders, police authorities, or the Province.                                                                                                           |
| <b>PM1.08.2-2</b> | Remove edge markers by April 30 <sup>th</sup> of each calendar year.                                                                                                                                                                                                         |
| <b>PM1.08.2-3</b> | Install edge markers by September 30 <sup>th</sup> of each calendar year.                                                                                                                                                                                                    |
| <b>PM1.08.2-4</b> | Remove Winter Accumulations and Compact in advance of the arrival and departure of commercial flights from the runway, taxiway, apron and other paved areas to bare surface.                                                                                                 |
| <b>PM1.08.2-5</b> | Remove sand from all surfaces immediately in advance of the arrival and departure of commercial flights, that would affect the safe operation of aircraft while landing, departing or taxiing.                                                                               |
| <b>PM1.08.2-6</b> | Restore traction in advance of the arrival and departure of commercial flights on the runway, taxiway and apron to ensure sufficient friction and low rolling resistance for aircrafts.                                                                                      |
| <b>PM1.08.2-7</b> | Remove Winter Accumulations to ensure all lights and visual navigational aids, including but not limited to approach lights, Runway Intersection Lights (RILS) and Visual Approach Slope Indicator Systems (VASIS) are clear, visible, and legible and function as designed. |
| <b>PM1.08.2-8</b> | After the Weather Event, remove Winter Accumulations within 2 days from the runway, taxiway, apron, pre-threshold and other paved areas.                                                                                                                                     |
| <b>PM1.08.2-9</b> | Remove snow drifts, snow piles or snow windrows to a location outside the airport boundary, as directed by the airport operator and the Province.                                                                                                                            |

#### **Notes:**

- 1) The Dease Lake Airport is a year-round airport with a 1830 metre by 30 metre asphalt surfaced runway that is operated by the Dease Lake Airport Society;
- 2) The location of the edge markers is determined by the Dease Lake Airport Society; and
- 3) Refer to Schedule 18 ("Insurance Requirements") for insurance coverage requirements for the small airport winter maintenance.

### 1.08.3 Materials and/or Procedures

Refer to Section 1.6 of this Schedule 1 (“Specifications”).

Additional materials and/or procedures requirements are as follows:

- a) Comply with the Transport Canada Aeronautical Information Manual, Transport Canada Aerodrome Standards and Recommended Practices – Land Aerodromes 5<sup>th</sup> Edition, Transport Canada Airport Winter Maintenance and Planning Advisory Circular AC 302-013 and other Transport Canada Advisory Circulars;
- b) Be informed of current commercial flight schedules for airlines that service the airport;
- c) Use the current commercial airline schedules and actual flight arrival / departure times to determine when to remove Winter Accumulations and apply of Anti-icing;
- d) Perform winter maintenance in the following order of priority, except when resources allow performance in all areas simultaneously, or as approved airport operator:
  - Runway;
  - Taxiway;
  - Apron;
  - Holding bay;
  - Approach lights, RILS and VASIS;
  - Any emergency area; and
  - All other areas including but not limited to aircraft tie-down areas, other roads and parking area.
- e) Remove Winter Accumulations an additional 60 metre pre-threshold area beyond each end of the runway and 8 metres beyond each side of the runway, where the terrain permits;
- f) Deposit Winter Accumulations 8 metres beyond the edge of the runway, threshold areas, taxiway and apron, where the terrain permits in accordance with Transport Canada requirements;
- g) Apply chemicals at a minimum width of 20 metres along the runway to restore traction where required and as directed by the airport operator for the taxiway and apron;
- h) Vehicles accessing the runways are to be equipped with required warning lights and be able to communicate with the airport operator and able to monitor the Aerodrome traffic frequency (ATF) at all times;
- i) Repair airport infrastructure, aircraft and property that is damaged by the Contractor; and
- j) Use urea only on paved runway, taxiway and apron as directed by the Dease Lake Airport Society.

**1.08.4 Routine Maintenance Service Cap**

\$0 – for each occurrence, the cost to respond to medivac flights or other emergency flights.



## 1.09 Winter Abrasives

### 1.09.1 Outcome

To minimize the development of Slippery conditions and restore traction on #37 Cassiar Highway.

### 1.09.2 Materials and/or Procedures

Additional materials and/or procedures requirements are as follows:

#### **Materials**

- a) Materials in accordance with the maximum allowable particle size for Winter Abrasive and the mean Gradation limits when tested according to ASTM Designations C136 and C117, and as follows:

Particle Size	Winter Abrasive Type
	Type B
a) Maximum particle size	12.5 mm
b) % Passing 12.5 mm	100
c) % Passing 9.5 mm	80 to 100
d) % Passing 4.75 mm	50 to 95
e) % Passing 2.36 mm	30 to 80
f) % Passing 0 to 0.6 mm	10 to 50
g) % Passing 0 to 0.3 mm	0 to 25
h) % Passing 0 to 0.075 mm	0 to 6