InvasivesBC

Biocontrol Dispersal Monitoring

Basic Information (All field with * are mandatory)

Created by:_____

Area (m^2)*:_____ Date (MMM/DD/YYYY)*:_____ Time (HH:MM) AM/PM*: _____

Latitude (°)*: _____ UTM Zone*:_____ UTM Easting*:_____

Longitude(°)*: _____ UTM Northing*:_____

Employer*:_____ Funding Agency*: _____

Jurisdictions (Total percentage of area covered by jurisdiction must equal 100%)

Jurisdiction (1)*: _____ Percent Covered (%)*: _____

Jurisdiction (2): _____ Percent Covered (%): _____

Jurisdiction (3): _____ Percent Covered (%): _____

Location Description*	Access Description*

Project Code

(max 50 characters)

Description (1): _____

Description (2): _____

Comments:

Monitoring Information

Monitoring Person (1)*: _____ Contact number: _____

Monitoring Person (2): _____ Contact number: _____

Weather Conditions

Temperature (C°)*: _____ [1]Cloud Cover* : _____ [2]Wind Speed (km/h)* : _____

Precipitation (select all that apply)*: ☐ Unknown or indeterminate, ☐ Drizzle, ☐ Intermittent showers, ☐ Steady rain, ☐ Down pour, ☐ Residual wet, ☐ Snow, ☐ Hail

Wind Direction*: _____

Comments:

1. Cloud Cover in Okta Scale: Sky clear: **0** (0%), Few clouds: **1** (15%), **2** (25%), Scattered: **3** (26-40%), **4** (41-40%), Broken: **5** (51-65%), **6** (66-80%), **7** (90%), Overcast: **8** (100%), Sky obscured: **9** (e.g. smoke, fog)

2. Beaufort Wind Scale: <1km/h: calm (smoke rises vertically), **1-5km/h:** light air (wind motions visible in smoke), **6-11km/h:** light breeze (wind felt on exposed skin, leaves rustle), **12-19km/h:** gentle breeze (leaves and smaller twigs in constant motion), **20-28km/h:** moderate breeze (dust and loose paper raised, small branches being to sway), **29-38km/h:** Fresh breeze (branches of moderate size move, small trees begin to sway, **39-49km/h:** strong breeze (large branches in motion, whistling heard in telephone wires, umbrellas used with difficulty, **50-61km/h:** near gale (whole trees in motion, inconvenience felt in walking against wind), **62-74km/h:** gale (breaks twigs off trees, generally impedes progress, walking into wind almost impossible), **75-88km/h:** strong gale (slight structural damage occurs, branches break off trees, temporary signs and barricades blow over), **89-102km/h:** storm (trees uprooted, considerable structural damage), **103-117km/h:** violent storm (widespread damage), **118-133km/h:** hurricane (rare, severe widespread damage to vegetation and significant structural damage possible)

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Microsite Conditions

Meso-slope Position: ☐ Unknown, ☐ Crest Upper, ☐ Middle, ☐ Lower , ☐ Toe, ☐ Depression, ☐ Level, ☐ Gully

Site Surface Shape (select at least one): ☐ Unknown, ☐ Hollow, ☐ Rounded, ☐ Linear

Biocontrol Dispersal Information

☐ Biocontrol Present

Invasive Plant*: _____ Biocontrol Agent*: _____

Sign of Presence (select all the apply):

☐ Foliar Feed Damage, ☐ Seed Feeding Damage, ☐ Root Feeding Damage, ☐ Eggs, ☐ Larva(e), ☐ Adult(s), ☐ Oviposition Marks, ☐ Pupa(e), ☐ Exit Holes/Tunnels, ☐ Stem Feeding Damage, ☐ Feeding Frass, ☐ In Gall, ☐ Previous Years Evidence, ☐ Current Years Evidence

Monitoring Type*: ☐ Timed, ☐ Count Linear Segment: ☐ Yes ☐ No

Monitoring Method*: ☐ Clipping, ☐ Excavate, ☐ Observe, ☐ Sweep (counted), ☐ Sweep (time), ☐ Tap and tray

Count Duration (min):_____ (* if doing Timed)

Plant Count:_____ (* if doing Count) Number of Sweeps:_____ (* if doing Timed, Sweep, counted)

Start time (HH:MM)*:_____ Stop time (HH:MM)*:_____

Location agent(s) found (select all the apply):

☐ No Slope, ☐ Top of Slope, ☐ Base of Slope, ☐ Mid Slope, ☐ In Hollow, ☐ In Protected, ☐ Within Canopy, ☐ Saturated Soil, ☐ Shaded, ☐ Edged of Patch, ☐ Canter of Patch, ☐ Edge Effects

Actual Biocontrol Agents ☐ or Estimated Biocontrol Agents ☐

Stage	**Number**	**Dead**	**Plant Position** (select from options below)[1]	**Agent Location** (select from options below)[2]
Adult				
Egg				
Larva				
Nymph				
Pupa				
Other				
Unknown				

1. Plant Position Options: Basal Growth, Duff/Litter, In soil, On soil, Plant Lower, Plant Upper, Root, Rosette, Tent, Other

2. Agent Location Options: Axil, Basal Growth, Flower (external), Flower (internal), Leaf Surface Upper, Leaf Underside, Meristem, Plant Terminal, Root (external), Root (internal), Seedhead (external), Seedhead (internal), Stem (external), Stem (internal), Stolon/Runner.

Suitable For Collection ☐ Yes ☐ No

Target Plant Phenology (Optional)

Recorded *: ☐ Yes ☐ No

Seedlings (%): _____ Rosettes (%): _____ Bolts (%): _____ Winter Dormant (%): _____

Flowering (%): _____ Seeds Forming (%): _____ Senescent (%): _____ (Sum of all values must equal 100%)

Target Plant Height (cm): (Record up to 10 heights of the tallest target invasive plants at the monitoring location.)

1._____, 2._____, 3._____, 4._____, 5._____, 6._____, 7._____, 8._____, 9._____, 10._____.

Notes: