

DMTS Fugitive Dust Risk Assessment



Photograph 1.
Anxiety Ridge Creek



Photograph 2.
Aufeis Creek

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Photograph 3.
Port Lagoon North



Photograph 4.
Small tundra pond near port facilities

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Photograph 5.
Tundra pond



Photograph 6.
Typical vegetation along the DMTS road

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Photograph 7.
Tussock tundra near the port facility



Photograph 8.
Representative coastal plain mesic tussock tundra near station
TT5-1000

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Photograph 9.
Coastal plain mesic tussock tundra at station TT5-2000



Photograph 10.
Coastal plain reference station TS-REF-12

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Photograph 11.
Representative foothills mesic tussock tundra at transect TT8



Photograph 12.
Foothills mesic tussock tundra at station TT8-1000

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Photograph 13.
Tundra reference station TS-REF-5



Photograph 14.
Tall shrubs along the DMTS road at station TT8-0010

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Photograph 15.

Hillslope mesic open shrubland at stations TT6-0010 (foreground) and TT6-0100 (background)



Photograph 16.

Hillslope mesic open shrubland at station TT6-0100

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Photograph 17.
Hillslope reference station TS-REF-11



Photograph 18.
Dry alpine tundra community at station TT7-0010

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Photograph 19.
Port Lagoon North station PLNL

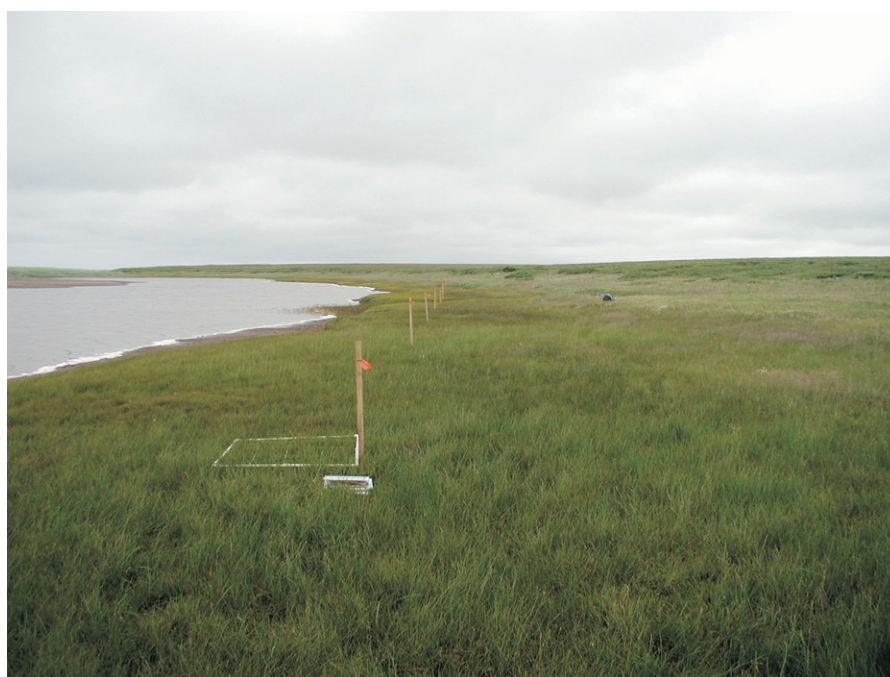


Photograph 20.
Reference Lagoon station CL-REF-1

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Photograph 21.
North Lagoon station NLK



Photograph 22.
Control Lagoon station CL-REF-2

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Photograph 23.
Coastal dune community at North Lagoon station NLF



Photograph 24.
Dust deposition and road gravel at station TT5-0010

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Photograph 25.

Impounded water along the DMTS road shoulder at station TT2-0010



Photograph 26.

Stressed blueberry (*Vaccinium uliginosum*), Labrador tea (*Ledum palustre*), and crowberry (*Empetrum nigrum*) at station TT3-0100

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Photograph 27.

Blackened heather (*Cassiope tetragona*) in a snow accumulation area at station TT7-0010



Photograph 28.

Bleached lingonberry (*Vaccinium vitis-idaea*) in a snow accumulation area at station TT7-0010

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Photograph 29.
Brown crowberry and bleached lingonberry at reference station
TS-REF-5



Photograph 30.
Bare ground showing dead mosses under dust at station
TT3-0010

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Photograph 31.
Blackened *Peltigera* lichen at station TT2-0010

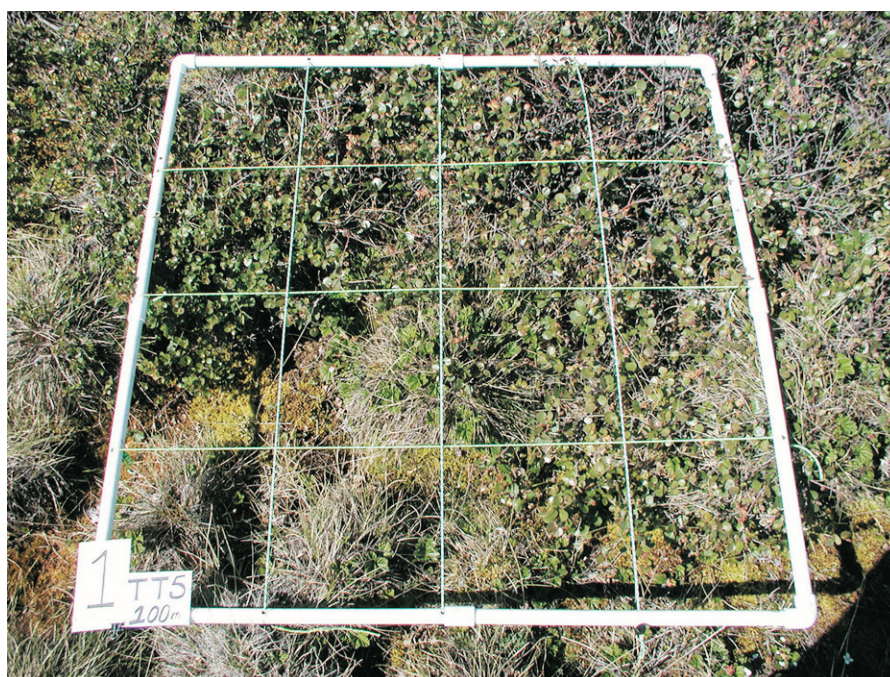


Photograph 32.
Peltigera lichen at station TT3-1000

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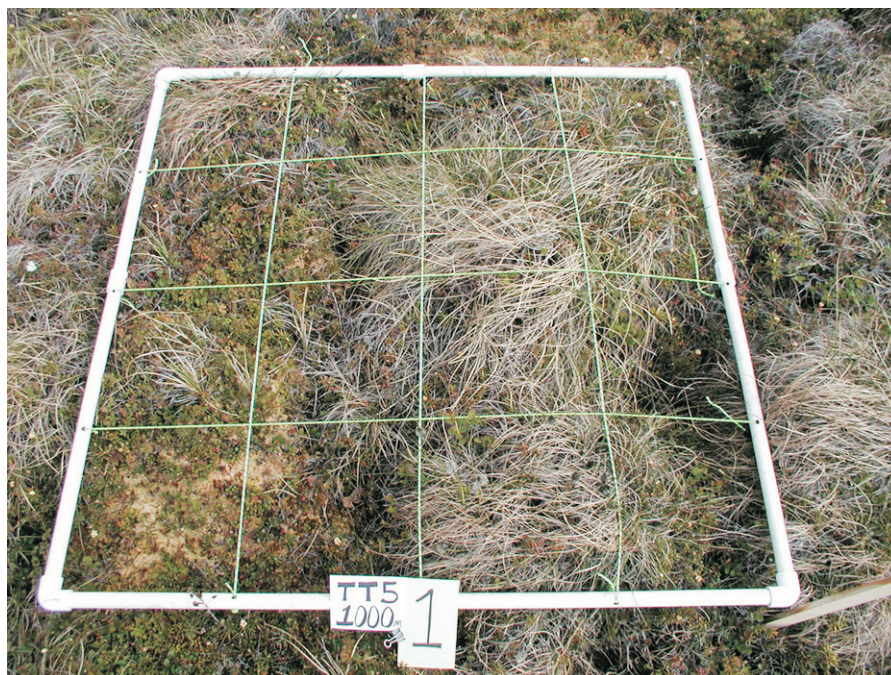


Photograph 33.
Microplot 1 at station TT5-0010



Photograph 34.
Microplot 1 at station TT5-0100

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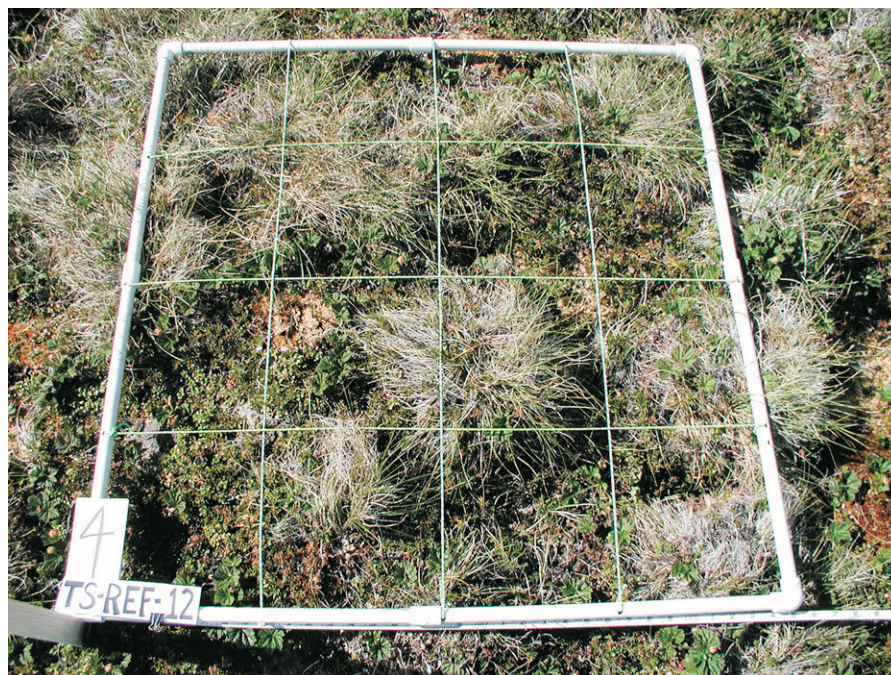


Photograph 35.
Microplot 1 at station TT5-1000



Photograph 36.
Microplot 1 at station TT5-2000

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Photograph 37.
Typical microplot at reference station TS-REF-12

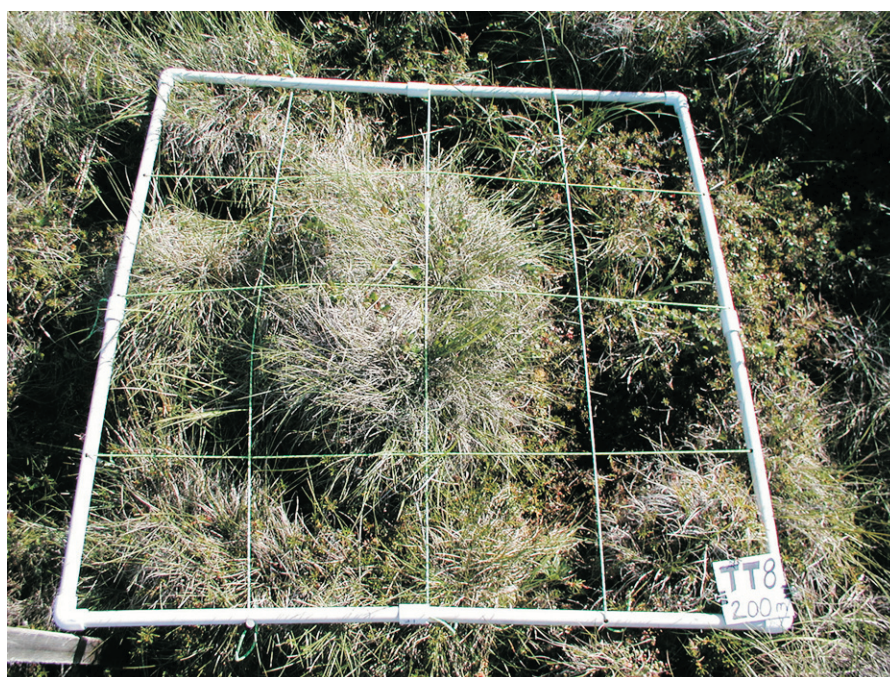


Photograph 38.
Typical microplot at reference station TS-REF-12

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Photograph 39.
Microplot 3 at station TT8-0010

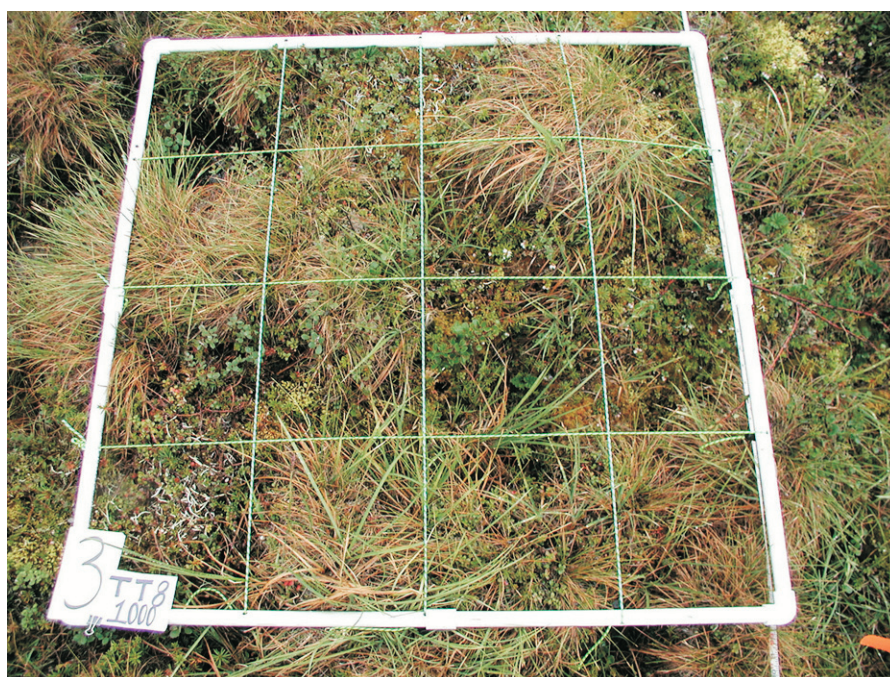


Photograph 40.
Microplot at station TT8-0200

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Photograph 41.
Microplot at station TT8-0600



Photograph 42.
Microplot 3 at station TT8-1000

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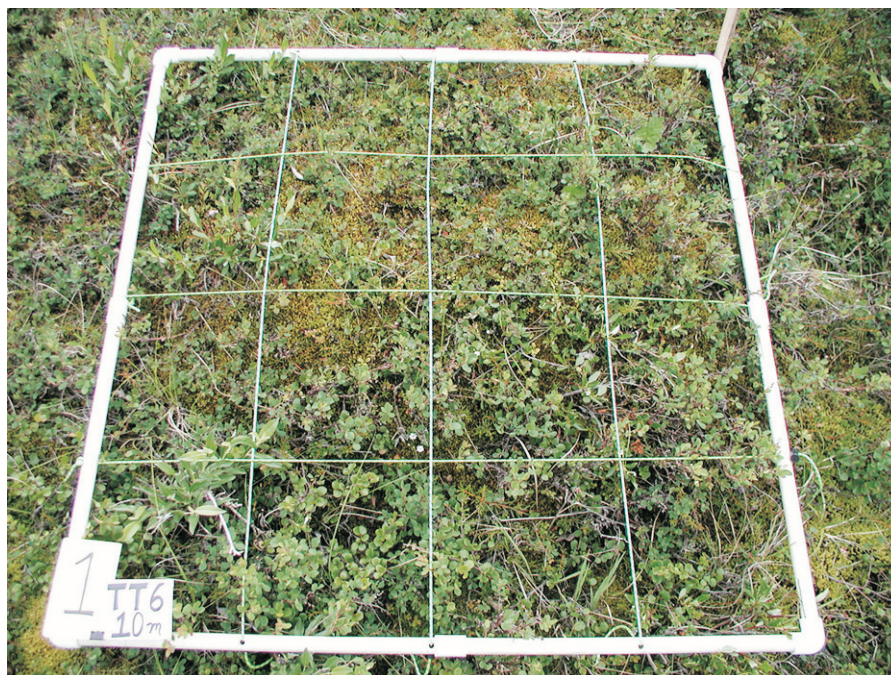


Photograph 43.
Microplot 3 at reference station TS-REF-5

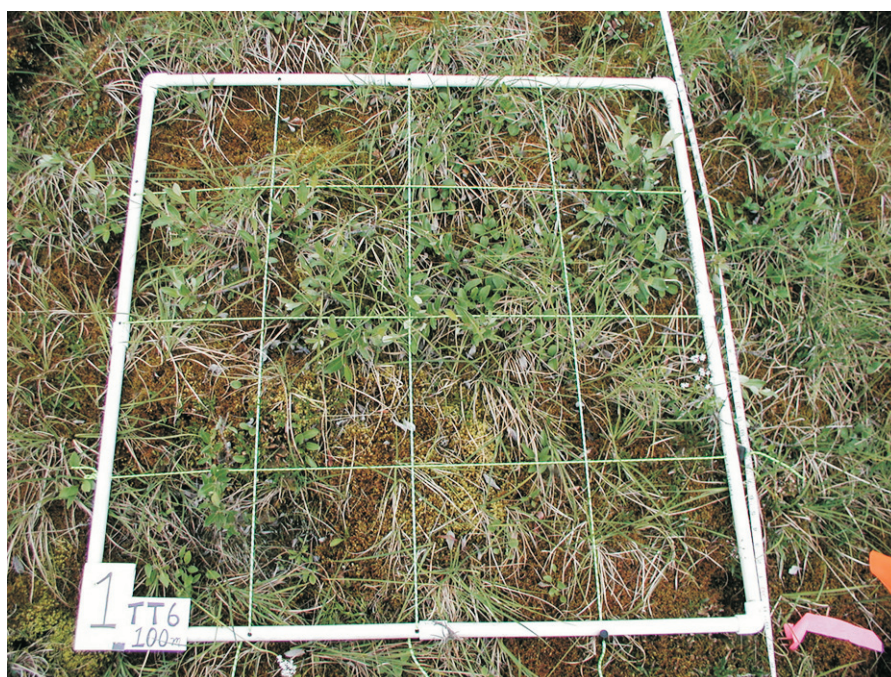


Photograph 44.
Microplot 3 at reference station TS-REF-7

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Photograph 45.
Microplot 1 at station TT6-0010

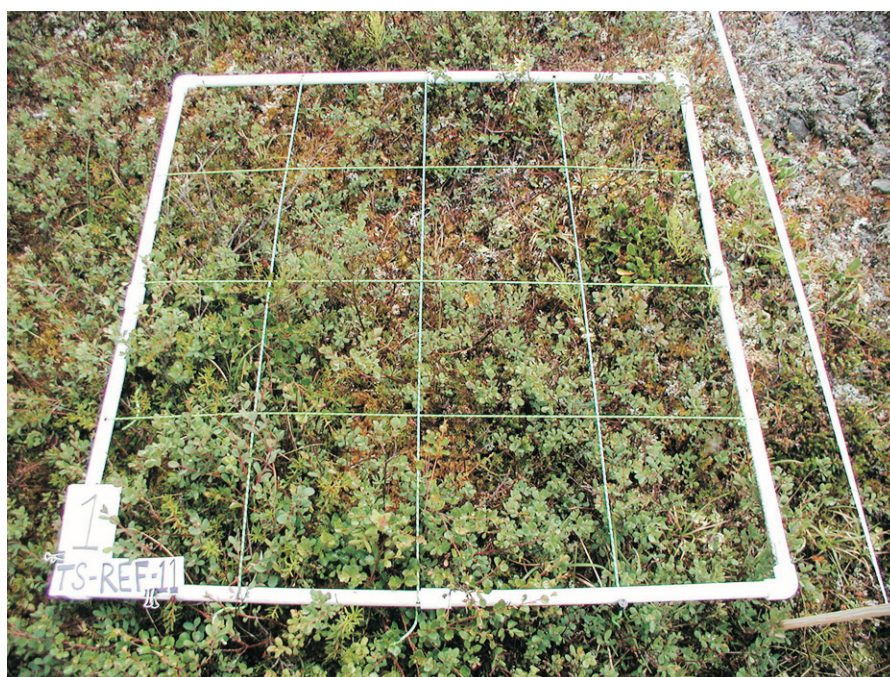


Photograph 46.
Microplot 1 at station TT6-0100

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Photograph 47.
Microplot 1 at station TT6-1000



Photograph 48.
Microplot 1 at reference station TS-REF-11

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Photograph 49.
Aerial view of stressed vegetation to the northwest of CSB1.



Photograph 50.
Aerial view of stressed vegetation near the ion exchange
treatment overflow ditch

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Photograph 51.

Aerial view of stressed vegetation between the southwest corner of CSB1 and the DMTS road



Photograph 52.

Stressed vegetation area northwest of CSB1

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Photograph 53.
Stressed vegetation area northwest of CSB1



Photograph 54.
Exposed rocks and
dead vegetation
northwest of CSB1

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Photograph 55.

Standing water and sedges at the edge of the stressed vegetation area northwest of CSB1



Photograph 56.

Close-up of sedge tussock in stressed vegetation area northwest of CSB1

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Photograph 57.

Exposed soil and rock, dead tundra vegetation, and live cottongrass northwest of CSB1



Photograph 58.

Frost-heave formation observed in the hills around the mine

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Photograph 59.
Station ACR-R in Anxiety Ridge Creek (upstream)



Photograph 60.
Station ACR-R in Anxiety Ridge Creek (downstream)

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Photograph 61.
Station OR-R in the Omikviorok River (downstream)



Photograph 62.
Station AC-R in Aufeis Creek (upstream)

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Photograph 63.
Station AC-R in Aufeis Creek (downstream)



Photograph 64.
Station ST-REF-3 in Reference Stream 3 (downstream)

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Photograph 65.
Station ST-REF-5 in Reference Stream 5 (upstream)



Photograph 66.
Station ST-REF-5 in Reference Stream 5 (downstream)

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Photograph 67.
Station ST-REF-6 in Reference Stream 6 (downstream)



Photograph 68.
Tundra pond plant community at station TP3