

## Beaver Creek Permafrost Test Site

Twelve full scale instrumented highway test embankments involving various adaptation techniques to address the impacts of melting permafrost on highways constructed over ice rich permafrost terrain.



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### **Owner**

[Government of Yukon](#)

### **Membership**

Regular Member

### **Latitude**

62.338889

### **Longitude**

140.835278

### **Location**

Located on Alaska Highway

### **Nearest Community**

Beaver Creek

### **Territory/ Provin**

Yukon

### **Aboriginal Government/ Homeland**

The research facility is located within White River First Nation traditional territory

**Facility Type**

Year-Round Experimental Research Station, Site for Observing/Monitoring

**Research Hinterland**

Forest, Sporadic Ice Rich Permafrost

**Main Research Disciplines**

Environmental Sciences, Soil Science, Permafrost Engineering related to Transportation

**Research History**

Ground temperature data has been collected since the mid-1990s. Experimental test embankments were constructed and instrumented in 2008; since then data is being collected

**Current Projects**

Air Convection Embankments (ACE); Heat Drains; Snow / Sun Sheds; High Albedo surfacing; Cooling Ducts; Snow plowing techniques; vegetative techniques; Styrofoam insulation

**Power**

Solar

**Communications**

Satellite to Yukon Government SCADA site

**Local Transportation**

Vehicle rental available in Whitehorse Yukon

**Equipment Storage**

N/A

**Dormitory/Sleeping Facilities**

Commercial accommodation & hotels are available in Beaver Creek

**Dining/Kitchen Facilities**

Restaurant in Beaver Creek

**Laboratory Facilities**

No lab at site

**Fuel Availability**

Available in different communities along the Beaver Creek

**Research Requirements**

External researchers need Yukon Government permit

**Special Rules and Regulations**

Data is managed by Transportation Engineering Branch, Yukon Department of Highways & Public Works

**Local External Resources**

N/A

**Nearest Medical Service**

Beaver Creek Nursing Station

**Safety Considerations**

Bear safety training, First Aid, Traffic signs and relevant OH&S Trainings

**Cost**

No cost for access to existing data. Cost of new experiments would be borne by proponent.

**Other Information**

Located on the Alaska Highway which was constructed in 1942 to support the defense of North America during World War II, and is currently a key transportation route to Alaska.

**Last Updated**

15-05-30