Elevation:

Survey Date: Oct 04, 2013

# Fish Passage Site 20501800

Coordinates (dec. deg.): 62.17595°, -150.07674°

Legal Description: S024N004W18

Region: South Central

Road Name: Alaska Railroad

Datum: NAD83
Quad Name / ITM: Talkeetna A-1
AWC Stream #:

Stream Name: Sunshine Creek

Site Comments: ARR milepost # 216.29.

## Survey <u>UPDATE</u>-ARR08

Project Supervisor: Gillian O'Doherty, ADFG

Observers: Gillian O'Doherty

Overall Fish Passage Rating: Green

Tidal: Step Pools:

Backwatered: Construction Year: 2012

Comments: Culvert removed and replaced with a bridge and downstream channel restored.

#### **Culvert Measurements**

No measurement data available.

### **Stream Measurements**

Stream Substrates Upstream Downstream

Dominant:

Subdominant:

Stream Slope(deg.): Stream Flow Stage:

No stream width data available.

### **Elevations**

No elevation data available.

## **Fish Sampling Efforts**

No fish sampling occurred during this survey.

## **Fish Observations**

No fish observations occurred during this survey.

## **Photos**







Questions or comments about this report can be directed to <a href="mailto:dfg.dsf.webmaster@alaska.gov">dfg.dsf.webmaster@alaska.gov</a>

## Fish Passage Site 20501800

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Legal Description: S024N004W18

Region: South Central Road Name: Alaska Railroad

Site Comments: ARR milepost # 216.29.

Datum: NAD83

Quad Name / ITM: Talkeetna A-1

AWC Stream #:

Stream Name: Sunshine Creek

Survey Date: Sep 28, 2010

Fish Passage Rating: Red

Elevation:

## Survey MSB10-ARR08

Project Supervisor: Gillian O'Doherty, ADFG Observers: Mark Eisenman, Ben Histand

Overall Fish Passage Rating: Red

Tidal: No Step Pools: No Backwatered: No **Construction Year:** 

#### Site Observations:

- 1. Beaver Activity
- 2. Mechanical damage or joints parting
- 3. Compound gradient in pipe

Comments: Beaver grate at inlet; recent construction activity at outlet. Very high flow velocity in pipe; last 5ft of pipe steeper, max grade >1.79% over 5ft of pipe.

# **Culvert Measurements**

Structure Type: Circular pipe (Reinforced concrete)

Length(ft): 54.6 Inlet Outlet Backwatered?: No Inlet Type: Projecting Width(ft): 5.0 5.0 Baffles Present: No Outlet Type: Projecting Height(ft): 5.0 Embedded?: No 5.0 Corrugation Depth(in.): Outfall Height: 0.0 Apron Length(ft):

Corrugation Width(in.): Water Depth(ft): 0.58 Outfall Type: At Stream Grade Condition Rating(1-5): 2 Rustline Height(ft): 0.0 Constriction Ratio: 0.25 Substrate Depth(ft): Culvert Gradient: 1.79% Approach Angle: 0.0 0.0

Sedimentation At Inlet: Yes Max Slope: 5.0 Inlet Substrate: None Max Slope Length: 5.0

Outlet Substrate: None

### **Culvert Observations:**

- 1. Beaver Activity
- 2. Mechanical damage or joints parting
- 3. Compound gradient in pipe

### **Stream Measurements**

Stream Substrates Upstream Downstream Stream Slope(deg.): Dominant:

Silt/Clay Silt/Clay Stream Flow Stage: Medium

Subdominant: Organic Organic

Stream Width Type	Distance From Crossing (ft)	Stream Width (ft)
Downstream ordinary high water	109.0	22.00
Downstream ordinary high water	165.0	21.50
Downstream ordinary high water	210.0	16.50

### **Elevations**

River	Distance From	Relative
Distance (ft) <sup>1</sup>	Crossing (ft) <sup>2</sup>	Elevation (ft)
		99.40
0.00		80.34
0.00		81.04
49.00		77.10
56.00		80.99
57.00		80.77
57.00		80.19
111.60		81.17
111.60		82.08
112.60		82.40
	0.00 0.00 49.00 56.00 57.00 111.60	0.00 0.00 49.00 56.00 57.00 111.60

#### Notes:

- 1. River distance is measured continuously throughout the survey reach along the thalweg of the stream.
- 2. Measured from each end of the crossing along the thalweg of the stream.

## **Fish Sampling Efforts**

No fish sampling occurred during this survey.

### **Fish Observations**

No fish observations occurred during this survey.

### **Photos**



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