



## ANADROMOUS WATERS CATALOG NOMINATION FORM

### Supplemental Documentation

This document's contents have been compiled from the 2010 Cascade Creek Aquatic Resource Report. The Report was submitted to Alaska Department of Fish and Game on February 3, 2011. The contents have been modified to more clearly summarize relevant anadromous fish information for the Nomination Form's requirements.

### Table of Contents

1.1	Seasonal Fishery Inventory Trapping Methods	2
1.2	Fish Passage Barriers Documented before December 2010	2
1.3	Fish Passage Barriers Documented in December 2010	3
1.4	Spawning and Rearing Habitat – Lower Cascade Creek (Below Swan Lake)	4
Table 1.1	Observed and Potential Fish Passage Barriers in Cascade Creek	3
Table 1.2	Anadromous Fish Observed in Lower Cascade Creek 2010	6
Figure 1	October 2010 Minnow Trap Locations Map	7
Figure 1-1	December 2010 Minnow Trap Locations Map	8
Figure 5-10	Fish Passage Barriers in Cascade Creek Documented before December 2010 Map	9
Figure 1-2	Fish Passage Barriers in Lower Cascade Creek Documented in December 2010 Map	10
Field Notes		11

## 1.1 SEASONAL FISHERY INVENTORY TRAPPING METHODS

The seasonal fisheries inventory focused on Reach 1 in Lower Cascade Creek. Reach 1 was further divided into Reach 1A, tidewater to first barrier falls and Reach 1B, barrier falls to Falls Lake outlet (Refer to Figure 5-10). Ten baited minnow traps were set in Reach 1A and ten traps in Reach 1B. Traps were placed in areas with a relatively low velocity and ample cover if available. For the most part, these locations were in eddies behind large boulders or pocket water along the banks. Traps were soaked overnight and checked the following day. GPS locations were recorded in field notes.

Representative photographs were taken of each trap location and each captured fish. Additionally, fish were identified, total length was measured to the nearest millimeter, and presence/absence of fin clips or VIE tags was checked and recorded. After identification and measurement were completed, the fish were returned to the stream location from which they were collected. No anesthetic was used on the fish and all data was recorded in an all-weather notebook. The purpose of this sampling was to establish presence/absence of RBT and/or other species; therefore, CPUE was not analyzed.

## 1.2 FISH PASSAGE BARRIERS DOCUMENTED BEFORE DECEMBER 2010

Barriers to upstream fish passage were mapped in Reaches 1A, 1B, 2A, 2B and 3 (Refer to Figure 5-10). A total of nine potential barriers to upstream fish passage were observed in Cascade Creek (Table 1.1). All observed barriers were photo documented. Eight of these barriers were located in Lower Cascade Creek between Swan Lake outlet and Thomas Bay. The ninth barrier was located in Upper Cascade Creek upstream of Swan Lake. Obvious barriers were designated with a B such as the falls at Falls Lake inlet whereas cascades that appeared to present barriers to upstream movement were designated PB to signify a potential barrier.

Two barriers located in reaches 2A and 2B respectively, were surveyed using a stadia rod and survey level to quantify the height of the barrier. Barrier B-5 was located a short distance upstream from the USFS lean-to structure on Cascade Creek. The surveyed height of the barrier B-5 was 30 feet. Barrier PB-6 was located in reach 2B just upstream from the Pond. Barrier PB-6 was a stepped cascade. Discharge during the survey on September 21, 2010 was 72 cfs. Under these flow conditions upstream passage appeared to be obstructed. Under higher flow conditions, upstream passage may be possible at barrier PB-6.

Barrier PB-7, located directly upstream of PB-6, was a 300 foot reach of giant boulders with numerous falls ranging in height from 5 to 10 feet. This reach likely presents an upstream barrier to fish passage.

Barrier PB-8 was a seasonal barrier evident when discharge was insufficient in Lower Cascade Creek for surface flow. Cascade Creek flowed subsurface in this section just downstream from Swan Lake outlet. The length of the dry channel expanded and contracted with changes in discharge disconnecting the large pool approximately 300 meters downstream from Swan Lake. A short section of dewatered channel (<2 meters) was first observed on August 13, 2010 when

discharge was 236 cfs. Warm weather throughout that week increased runoff from the glaciers upstream causing discharge to increase and reconnecting surface flow in Lower Cascade Creek. On September 21, 2010 the length of dry stream channel at this location was approximately 100 meters. Discharge was 72 cfs at Swan Lake outlet.

Barrier B-9, approximately 100 feet in height, was located in Upper Cascade Creek approximately 1.5 miles upstream from the inlet to Swan Lake. Based on communication with ADFG fisheries biologist (Doug Flemming, personal communication) coupled with review of stocking records, Upper Cascade Creek upstream of barrier B-9 was considered fishless.

### 1.3 PASSAGE BARRIERS DOCUMENTED IN DECEMBER 2010

Two new potential fish barriers were observed in the December sampling in Reach 1B (Figure 1-2). These potential fish barriers were not previously documented in the Aquatic Resources Report.

A potential upstream fish barrier (PB-10) was observed directly under the wooden footbridge approximately 100-meters upstream from the first barrier falls separating Reach 1A from 1B. This potential barrier was approximately 9 feet in height. At the discharge volume present on December 7 and 8, the falls spill onto a large rock causing high velocities and a lack of depth for fish traveling upstream to stage and attempt to leap the falls.

The second potential barrier (PB-11) assessed was an approximately 90 foot stretch of large cascades and boulders directly upstream of trap site 1B-10M. The stream slope in this section was greater than 25%.

**Table 1.1: Observed and potential upstream fish passage barriers in Cascade Creek**

Barrier Number	Refer to Figure Number	Reach Number	Description	Height (ft)
B-1	5-10	Reach 1a	Cascade Ck Falls/First Barrier Falls	~45
B-2	5-10	Reach 1b	Unnamed Falls	~35
B-3	5-10	Reach 1b	Falls Lake Outlet	~100
B-4	5-10	Reach 2a	Falls Lake Inlet	~45
B-5	5-10	Reach 2a	Cascade/Falls	~30
PB-6	5-10	Reach 2b	Cascade/Falls	~22

PB-7	5-10	Reach 2b	Boulder Cascade	~5-10
PB-8	5-10	Reach 2b	Subsurface Channel	NA
B-9	5-10	Reach 3	Barrier Falls 1.5 miles above Swan Lake	~100
PB-10	1-2	Reach 1b	Falls under the Trail Bridge	~9
PB-11	1-2	Reach 1b	Boulder Cascade	~90

**1.4 SPAWNING AND REARING HABITAT - LOWER CASCADE CREEK (BELOW SWAN LAKE)**

Reach 1A, located between Thomas Bay tidewater and the first barrier falls on Lower Cascade Creek was approximately 200-meters in length (Refer to Figure 5-10). Because the combination of steep gradient and high discharge made wading unsafe, water depths and channel widths were estimated from shore. Flows at the time of the qualitative survey on October 27<sup>th</sup>, 2010 were approximately 400 cfs on Lower Cascade Creek.

The stream habitat in reach 1A was primarily cascades with a large pool located directly below the barrier falls. The slope from the barrier falls to Thomas Bay was steep (estimated 60%). Water velocity was swift and cascading in most places with occasional breaks occurring along the banks and behind large boulders where there were limited pockets of calm water. Substrate near the mouth of the Tidewaters ranged from sub-angular and rounded cobbles to boulders with few gravels present. Limited small pockets of sand and silt were located near the mouth of the stream and close to or below the tidewater influence. The average water depth was approximately 0.5 feet in the riffles and cascade habitats and estimated to be up to 1.5-meters in the pool below the barrier falls. The channel had an average width of 10.5-meters.

A limited amount of large woody debris overhung and was submerged along the banks of Lower Cascade Creek but relatively little to no vegetative cover existed in the channel on this section of the stream; however, thick over-hanging vegetation existed along the banks a short distance from the wetted perimeter (e.g. alders and devil’s club). Boulders and cobble substrate provided the most habitat variation and pools for fish to utilize.

Comparatively, the stream reach above the barrier falls contains larger pools and drops, relatively fewer boulders and cobbles, and appears to be influenced by bedrock controls to a greater degree than the lower Reach 1A.

Lower Cascade Creek (above the First Barrier Falls/Cascade Creek Falls, see Figure 1-2) is a high energy, low sediment supply stream system that is mostly bedrock or structurally controlled

(boulders/colluvial deposition) in an entrenched and confined channel associated with faults, scarps, joints, and other structural controls in a deep canyon. Accordingly, spawning size substrate was virtually non-existent in Lower Cascade Creek, including the reach between the last downstream barrier falls and Thomas Bay. Pool spacing was irregular with relatively low sinuosity. Some large woody debris overhung and was submerged along the banks of Lower Cascade Creek but little to no vegetative cover was present in the wetted channel on this subreach of the stream. However, thick over-hanging vegetation did exist along the banks above the wetted perimeter (e.g. spruce, alders and devil's club). Boulders and cobble substrate provided the most habitat variation and pools for fish to utilize.

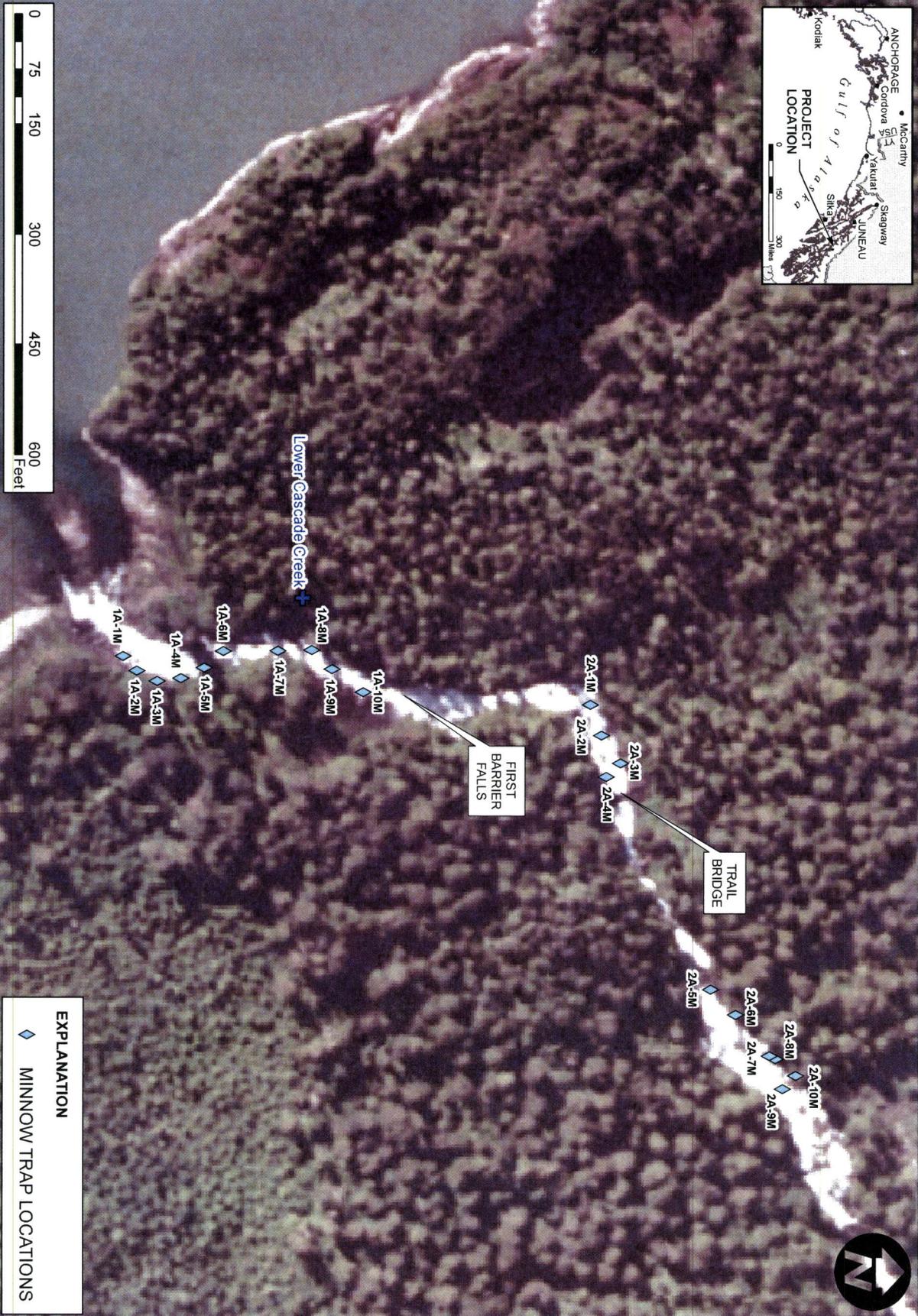
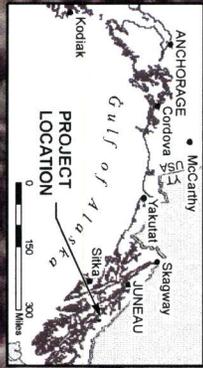
At best, Lower Cascade Creek might provide transitory habitat for fish being flushed downstream. Even at periods of low flow, these lower areas are impassible in terms of migration upstream to areas with more suitable spawning and rearing habitats, and therefore, provide little benefit to overall fish productivity or contribute to sustaining the population in Swan Lake.

**Table 1.2 Anadromous Fish observed in Lower Cascade Creek 2010**

Latitude	Longitude	Date	Fish collection method	Trap Number	Refer to Figure Number	Trapping Duration (hours)	Species	Life stage	Total Length (mm)
57.00246	132.78337	10/28/2010	Minnow Trap	A1-3M (in Notes)	1	24:15:00	Dolly Varden	juvenile/adult	135
				1A-3M (on Map)					
57.00398	132.78307	10/28/2010	Minnow Trap	A1-6M (in Notes)	1	24:20:00	Dolly Varden	juvenile/adult	171
				1A-6M (on Map)					
57.00403	132.78337	10/28/2010	Minnow Trap	A1-10M (in Notes)	1	24:15:00	Dolly Varden	juvenile/adult	155
				1A-10M (on Map)					
57.00582	132.78052	10/28/2010	Minnow Trap	A2-6M (in Notes)	1	24:10:00	Dolly Varden	juvenile/adult	165
				2A-6M (on Map)					
57.0042	132.78262	12/8/2010	Minnow Trap	1A-9M	1-1	23:40:00	Dolly Varden	juvenile/adult	132
57.0042	132.78262	12/8/2010	Minnow Trap	1A-9M	1-1	23:40:00	Dolly Varden	juvenile/adult	155
57.0042	132.78262	12/8/2010	Minnow Trap	1A-9M	1-1	23:40:00	Dolly Varden	juvenile/adult	125
57.0042	132.78262	12/8/2010	Minnow Trap	1A-9M	1-1	23:40:00	Dolly Varden	juvenile/adult	154
57.0042	132.78262	12/8/2010	Minnow Trap	1A-9M	1-1	23:40:00	coho salmon	juvenile	104
57.0042	132.78262	12/8/2010	Minnow Trap	1A-7M	1-1	23:35:00	Dolly Varden	juvenile/adult	155

Notes:

All Latitude and Longitude data was collected as WGS84 Datum.  
 Josh Brekken was the observing biologist.  
 All fish captured were measured and released. There were no mortalities, fin clips, marks, or tags.



**EXPLANATION**

◆ MINNOW TRAP LOCATIONS



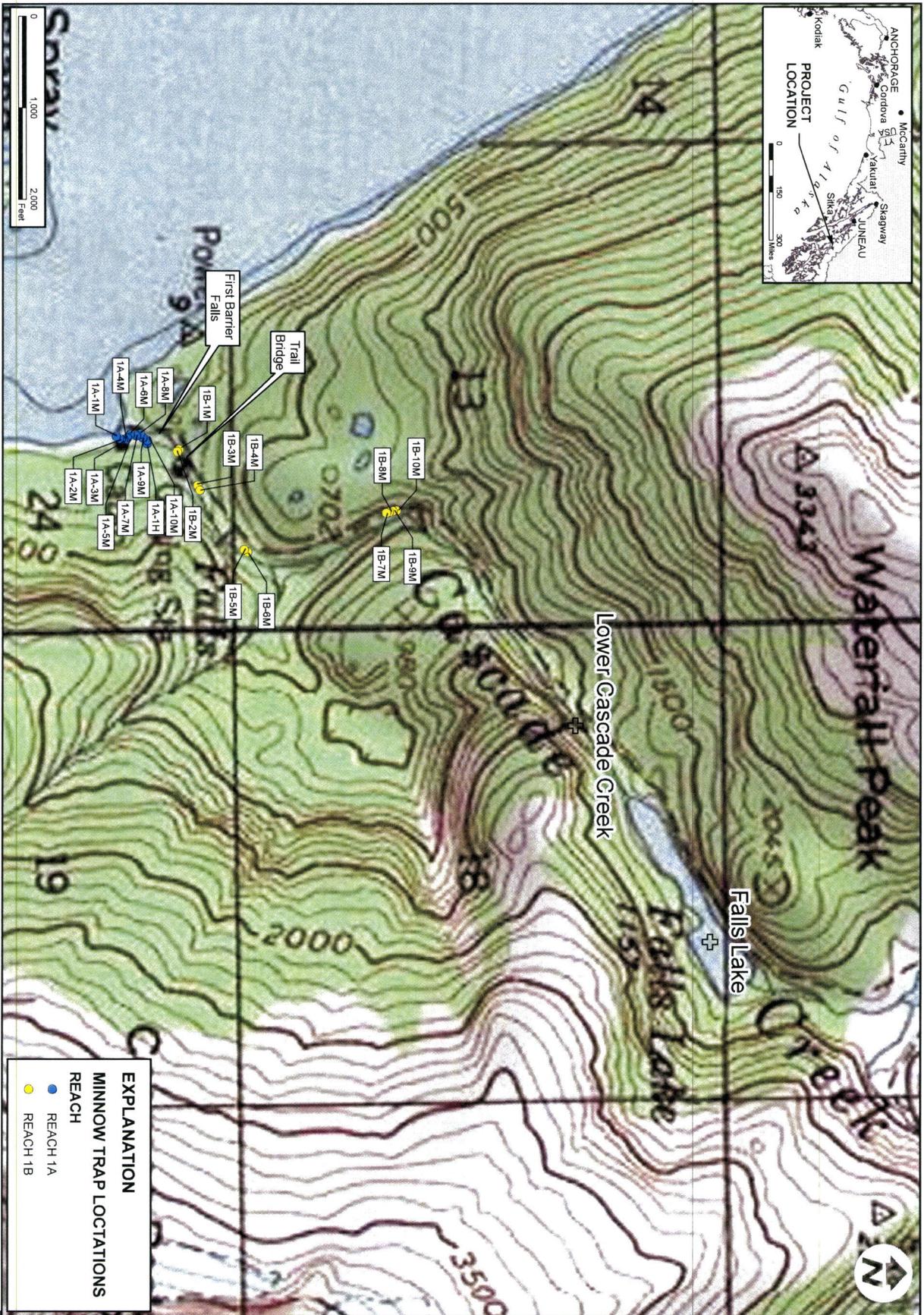
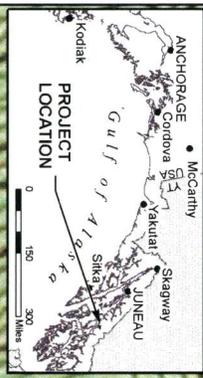
DATE: NOV. 2010  
 CHKD: J.B.  
 DRWN: C.L.H.  
 PROJ. No.: 637-003  
 825 W. 8th Ave., Anchorage,  
 AK 99501, (907) 258-4880

**LOWER CASCADE CREEK MINNOW TRAP SURVEY  
 OCTOBER 2010**

CASCADE CREEK DRAINAGE  
 18 NW of Petersburg, Alaska

FIGURE  
**1**

J:\Projects\637\_003\Cascade\_Creek\minnow\LOWER\_CASCADE\_MINNOW\_TRAP\_SURVEY.mxd



J:\Projects\637\_001\_Cascade\_Creek\minnow\_trap\_surveys.mxd

**EXPLANATION**

**MINNOW TRAP LOCATIONS**

● REACH 1A

● REACH 1B

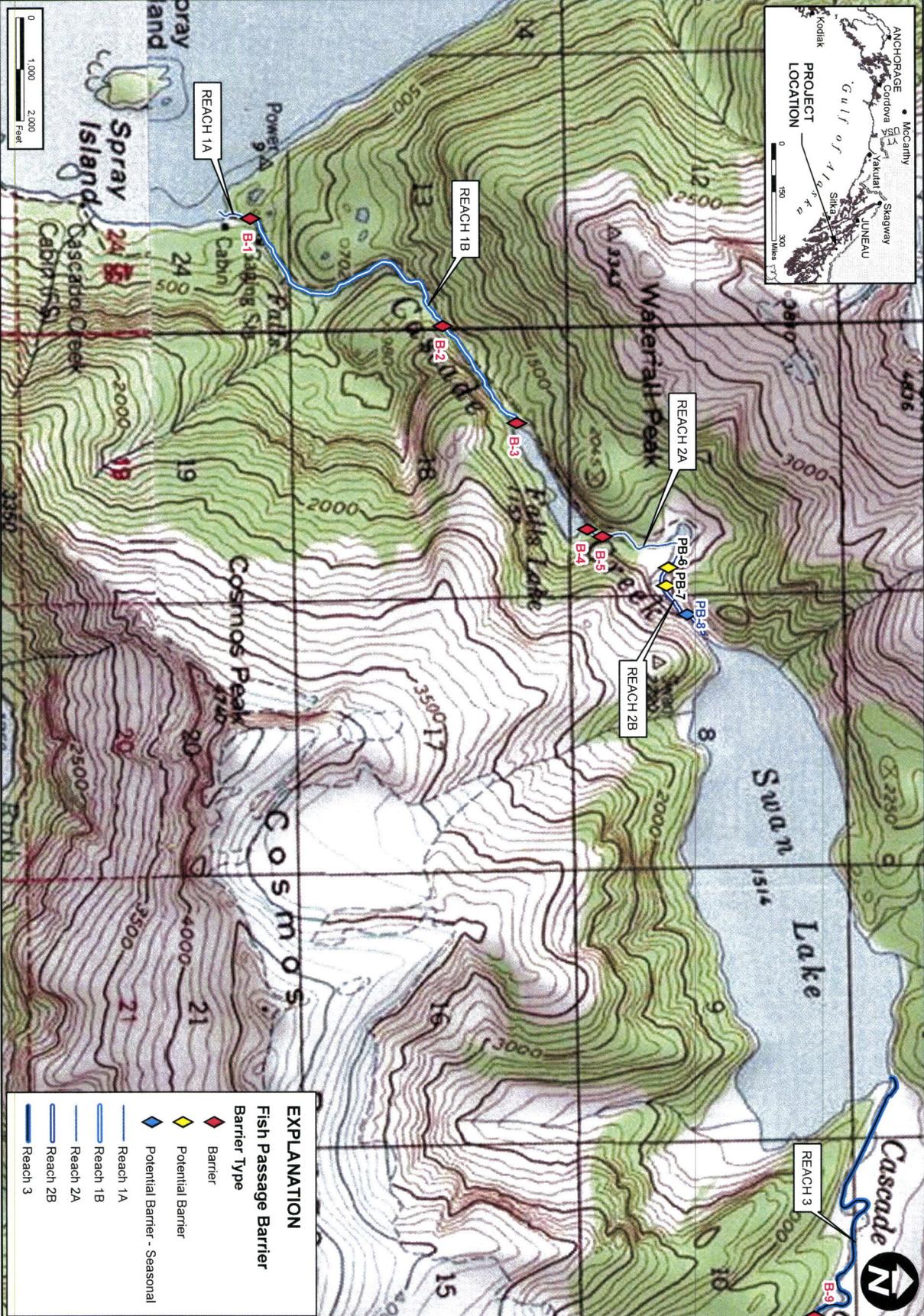
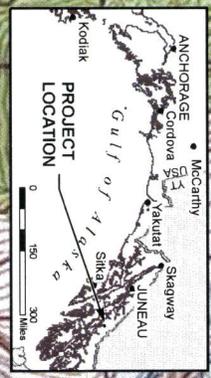


DATE: DEC. 2010  
 CHKD: C.S.  
 DRWN: C.L.H.  
 PROJ. No.: 637-003  
 825 W. 8th Ave., Anchorage,  
 AK 99501 (907) 258-4880

**MINNOW TRAP LOCATION IN REACH 1A AND 1B  
 DECEMBER 2010**

CASCADE CREEK DRAINAGE  
 18 Miles NW of Petersburg, Alaska

FIGURE  
 1-1



EXPLANATION	
	Fish Passage Barrier
	Barrier Type
	Barrier
	Potential Barrier
	Potential Barrier - Seasonal
	Reach 1A
	Reach 1B
	Reach 2A
	Reach 2B
	Reach 3

J:\Projects\637\_001\_Cascade\_Creek\Fish\_PASSAGE\_REACHES.mxd

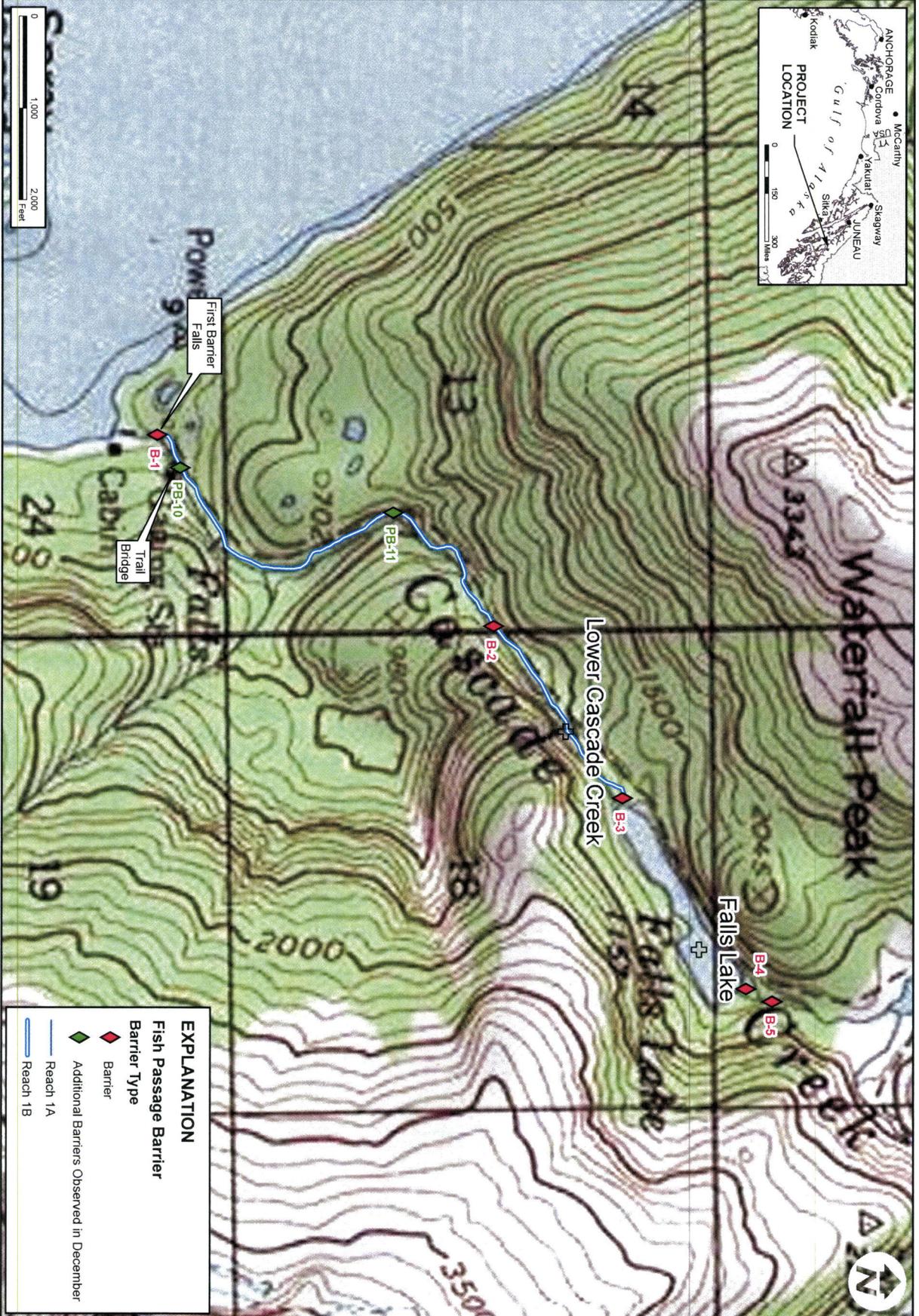
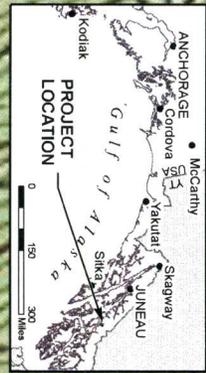
**BARRIERS TO UPSTREAM FISH PASSAGE OBSERVED IN CASCADE CREEK**

CASCADE CREEK DRAINAGE  
18 Miles NW of Petersburg, Alaska

FIGURE  
5-10



DATE: DEC. 2010  
CHKD: J.G.  
DRWN: C.L.H.  
PROJ. No.: 637-004  
825 W. 8th Ave., Anchorage, AK 99501, (907) 258-4880



**EXPLANATION**

**Fish Passage Barrier**

Barrier Type

- ◆ Barrier
- ◆ Additional Barriers Observed in December

Reach 1A

Reach 1B



DATE: DEC. 2010  
 CHKD: C.S.  
 DRWN: C.L.H.  
 PROJ. No.: 637-003  
 825 W. 8th Ave., Anchorage,  
 AK 99501, (907) 258-4880

**BARRIERS TO UPSTREAM FISH PASSAGE OBSERVED  
 IN CASCADE CREEK - DECEMBER 2010**

CASCADE CREEK DRAINAGE  
 18 Miles NW of Petersburg, Alaska

FIGURE  
 1-2

J:\Projects\637\_001\_Cascade\_Creek\mxd\MINNOW\_TRAP\_SURVEYS.mxd

## Example Data Needed for Minnow Trap

Site: Lower Cascade Creek - below barrier falls  
 Stream  
 # of traps  
 A-1M (M = minnow trap)  
 ↑ trap or net (H = net)

Trap ID:

Point #:

GPS

Nothing: (decimals)

Westing: (decimals)

Trap Depth:

H<sub>2</sub>O Temp:

Date + Time:

start → end

Species Captured:

Length:

Finchp ? : (upper or lower caudal)

VIE ? color:

location:

Recapture:

Photo #'s:

Vent Shape: keyhole or elliptical

Comments:

10/27/10 some clouds 45° calm  
 Markene W. Josh B.  
 0800 Start Day  
 0830 Meet Markene - Study Mtg.  
 0845 @ Pre Wing  
 0930 @ Cascade Creek Cabin,  
 pack gear over to  
 Cascade Creek  
 Below Barrier falls and above  
 Tidenwater  
 (working upstream)  
 0950 A1-1M  
 water depth = 10"  
 temp = 6°C  
 N 57.00216°  
 W 132.78770°  
 picture 0084 pool  
 1000  
 A1-2M  
 D = 6"  
 T = 6°C  
 N 57.00247°  
 W 132.78366°  
 pic 95 pool  
 SB

10/27/10

1010

A1-3M

D = 14"

T = 6°C

N 57.00246

W 132.78337

pic 86 pool

1020

A1-4M

D = 18"

T = 6°C

N 57.00389°

W 132.78285°

pic 87 pool

1025

A1-5M

D = 20"

T = 6°

N 57.00401

W 132.78290

pic 88 pool

DB

10/27/10

A1-6M

1030

D = 12"

T = 6°

N 57.00398

W 132.78307

pic 89 pool

1035

A1-7M

D = 10"

T = 6°C

N 57.00403

W 132.78305

pic 90 pool

1040

A1-8M

D = 36"

T = 6°C

N 57.00

W 132.78

pic 92 pool

50M below falls

No GPS coverage

DB

Trap #  
1A-1M

time set

date set

retreive time

retreive date

clip/  
Noted/VIE

depth

fish sp.

GPS

N 57  
W 132

10/27/10

1045

A1-9M

D = 8"

T = 6°C

N 57.

W 132.

pic 93

pool

~ 30 M below falls

No GPS coverage

1055

A1-10M

D = 18"

T = 6°C

N

W

pic 94

pool

N 57.00403°

W 132.78337°

~~No GPS coverage~~

~ 25 M below falls

JB

10/27/10

Above Bamier Falls (A2)  
(set upstream direction)

1110

A2-1M

D = 14"

T = 6°C

N 57.00558

W 132.78212

pic 95

pool

1115

A2-2M

D = 24"

T = 6°C

N 57.00531°

W 132.78239°

pic 94

pool

1120

A2-3M

D = 14"

T = 6°C

N 57.00546

W 132.78206

pic 97

pool

JB

10/27/10

1125

A2-4M

D = 24"

T = 6°C

N 57.00550°

W 132.78201°

pic = 96

pool

1135

A2-5M

D = 20"

T = 6°C

N 57.00574

W 132.78072

pic 99

pool

1140

A2-6M

D = 14"

T = 6°C

N 57.00582°

W 132.78052°

pic 98

pool

DB

10/27/10

1145

A2-7M

D = 20"

T = 6°C

N = 57.00599°

W = 132.78029°

pic 100

pool

1155

A2-8M

D = 22"

T = 6°C

N 57.00601

W 132.78036

pic 101

pool

1200

A2-9M

D = 22"

T = 6°C

N 57.00623

W 132.78037

pic 102

pool

DB

10/27/10

1205

A2-10 M

D = 10"

T = 6°C

N = 57.00608°

W = 132.78011°

pic 103 pool

1225 Begin Habitat Survey

between tidewater &amp;

barrier falls.

photo 111-114 of

115-121 (same habitat)

Substrate near tidewater (above)

is mostly boulders + cobbles

w/ swift cascading current,

some pockets of calm

H<sub>2</sub>O, but mostly alternating

between cascades and runs.

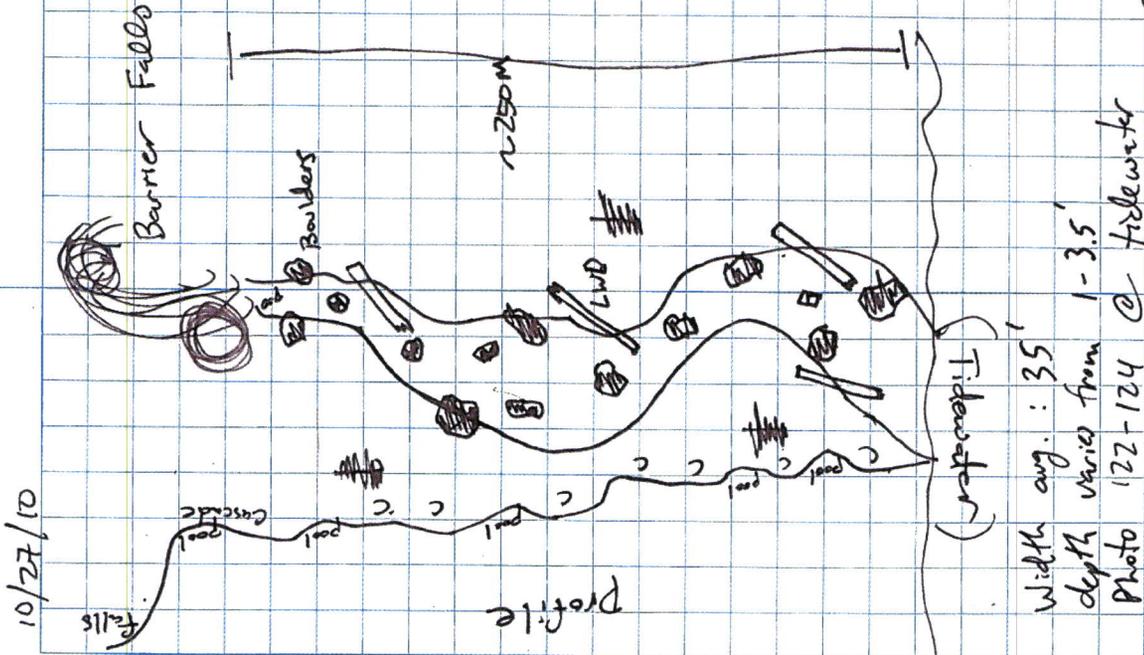
~ 250 M in length

slope &gt; 10%

very little few gravels

JB  
10/27

B



10/27/10

photo 125

taken @ 1300 from approx.  
the high tide mark looking  
upstream.

Am. dipper observed feeding

successfully below falls

Loons (2) observed @ mouth

of creek feeding

Some LWD in this reach  
of stream but all are  
pushed to the side of  
the stream.

Small pockets of silty sediment  
near mouth (2)

1430 Walk upstream + check

traps

Walk back to cabin,

unpack change gear

+ make dinner

1700 End Day

9 hrs

SB

10/28/10 Clear, 30' calm, ice on bay

0800

Start Day - Marlene U.  
Josh B.

Safety - Slippery conditions  
near swift stream

Walk to site

1015

A1-1M Rainbow Trout

1 coho salmon 65 mm

photo 131, 132, 133

no fin clip, no VIE

very healthy looking - fat

1020

A1-2M

no fish

1025

A1-3M

1 Dolly Varden 135 mm

photo 134

no VIE/clip

1 RT 63 mm

photo 135, 136

no VIE/clip

SB

10/28/10

1040

A1-4M

no fish

1045

A1-5M

Coast range Sculpin

90 mm

photo 137

no marks

1050

A1-6M

Dolly Varden

photo 138, 139 / no marks

171 mm

1055

A1-7M

no fish

1100

A1-8M

no fish

no. 5

A1-9M

no fish

1110

A1-10M

1 DV: 155 mm

photo 139, 140

no marks

JB

10/28/10

1115

A2-1M

RT 73 mm

no marks

photo 141

1120

A2-2M

no fish

1125

A2-3M

no fish

1130

A2-4M

no fish

1145

A2-5M

no fish

1150

A2-6M

1 DV 165 mm

photo 142, 143

good condition

no marks

JB

10/28/10

1155

A2-7M

no fish

1200

A2-8M

no fish

1210

10/28  
A2-9M

no fish

1215

A2-10M

no fish

1300 Back @ Cabin

Sort &amp; pack gear / clean cabin

call for P/U

1400 Head back to

Petersburg

Change &amp; dew do.

Clean gear and head

to storage area

NOTE all traps fishing well when retrieved, all traps remained in the position they were placed.

DS

10/28/10

Call J. Goggin to check in

1600 End Day

8 hrs

DS

10/29/10  
 0900 Begin Day  
 Pick Gear + head to  
 airport.  
 1015 @ airport  
 1035 Learn plane is delayed  
 here in Petersburg due to  
 winds in Juneau.  
 1130 Still awaiting status of  
 flight.  
 1500 Land in Anchorage  
 head to office, unpack  
 gear.  
 Return Sat Phone  
 1730 End Day

8.5

12/6/10 0800 @ office preparing for trip.  
 1000 Head to Anch. Airport  
 1130 Depart for PSG.  
 1500 Arrive PSG  
 Check-in Tidel's Inn  
 Groc. shop  
 Head to RR storage,  
 retrieve traps & gear  
 Talked w/ Doug F (ADFG)  
 and informed him we'd be  
 minnow trapping 12/7 & 12/8.  
 He was glad to hear that &  
 asked us to attempt to  
 place a hoop net in lower  
 Cascade Creek to assess  
 presence of larger (adult) fish  
 than we caught last time.  
 1730 Back from R+R storage  
 Arrange gear for morning  
 flight.  
 1800 End Day

10 hrs

46° Celsius S, J Bekke  
 Weather: 15 mph breezy overcast

12/7  
 0800 Safety: Slipping, work

Methodically - NO ONE

SLIPS IN AND THW

STREAM - 1st & foremost

Thought when working  
 near the stream.

0900 @ Paching

Fly to Cascade Creek

Prep gear @ cabin

Head up trail.

1030 1B-10M - furthest upstream

14" deep - pool trap

1045 1B-9M

12" deep - pool

1050 1B-8M

16" deep - pool

1055 1B-7M

12" deep - pool

1140 1B-6M

20" deep - pool  
 tributary or side channel enters  
 from River left here.

GB

12/7

1150 1B-5M

18" deep - pool

1210 1B-4M - downstream from

24" - pool / gaging station

1215 1B-3M

20" - pool - upstream of

bridge

1220 1B-2M

24" - pool - downstream of

bridge

1225 1B-1M

20" - pool

Below Barner Falls (1st)

1245 1A-10M

18" - pool

- pool below 1st  
 Barner Falls

1250 1A-9M

20" - pool

Photo 42

1255 1A-8M

14" - pool

1300 1A-7M

20" - pool

Photo 43, 44

GB

12/7/10

1305 1A-6M

30" - pool

photo 45

1315

1A-5M

10" - pool

photo 46

1320

1A-4M

22" - pool

photo 47

1325

1A-3M

12" - pool

photo 48

1330

1A-2M

14" - pool

photo 49, 50, 51

1335

1A-1M

14" - pool

photo 52

1345 Set Hoop Net (per request

by Doug F (ADFG) @

pool @ base of 1<sup>st</sup>

Barrier falls.

Wildlife Sightings Today

Winter wren

Am Dipper (multiple) } observed

Red Squirrel (heard)

Deer &amp; Moose Tracks + Scat on trail

Deer, Moose, &amp; wolf (multiple) tracks on beach

2 seals feeding off mouth of C.C.

JB

12/7/10

Take habitat photos of  
Lower Cascade Creek (Ranch IA)

1500 Head back to cabin

- high tide covering some of  
trail

1530

Back @

Cabin - set-up

quarters &amp; unpack gear

1700

End Day

9 hrs

JB

MIT

17 - Corvuse-5

6 - Fish - 10

12/8/10 35° calm, overcast (J. Parklin)  
 0800 Begin Day (C. Stuedel)  
 Pack Gear

Make Breakfast

Review Day

Safety - slipping

wet (raised last note)

Swift stream

ice

Work methodically.

0900 Walk to C. Creek

1045 1B-10 M.

No fish  
 $T = 2.5^{\circ}$

1050 1B-9M

no fish

$T = 2.5^{\circ}$

1105

1B-8M

no fish

$T = 2.5^{\circ}$

1110

1B-7M

no fish

$T = 2.5^{\circ}$

JS

8/10

1115

1B-6M

no fish

$T = 2.5^{\circ}C$

1120

1B-5M

no fish

$T = 2.5^{\circ}C$

1130

1B-4M

no fish

$T = 2.5^{\circ}C$

1135

1B-3M

no fish

$T = 2.5^{\circ}C$

1145

1B-2M

no fish

$T = 2.5^{\circ}C$

1150

1B-1M

no fish

$T = 2.5^{\circ}C$

all traps were fishing as they were set (no changes to trap location or H<sub>2</sub>O levels)

JS

12/8/10

Below Banner Falls (1st/lowest)

1215 1A-10M

no fish

T = 2°C

1220 1A-9M T = 2°C

DV 132mm 0078-77

DV 155mm 0078-79

DV 125mm 0080-82

DV 154mm 0083-84

CO 104mm 0085-88

1225 1A-8M

T = 2°C

RBT 117mm

0089-0090

1235 1A-7M

T = 2°C

Coast Range sculpin 100mm 0093-94

DV 155mm

0095-0096

1240 1A-6M

T = 2°C

NO fish

1250 1A-5M

T = 2°C

Coast range sculpin 91mm

0097-0099

1255 1A-4M T = 2°C

\* set mid channel, unlike  
most other traps near bank &

NO FISH

1257 1A-3M T = 2°C

NO FISH

1205 1305 1A-2M T = 2°C

Coast range sculpin 84mm  
photo good

1310 1A-1M

T = 2°C

NO FISH

1315 1A-1H T = 2°C

NO FISH

1345 Hike back to cabin

1500 PackWing Floatplane arrived

Load &amp; return to PSG.

Go to storage unit &amp; demob.

Grab hoop-nets and package

for shipment to FBX.

1700 End Day

9 hrs JB

12/9

0800 Begin Day

0900 @ AK Air Cargo - ship

nets to FBX

Check-in for Flight  
Write-up field trip efforts  
and results.

