

ALASKA DEPARTMENT OF FISH AND GAME
Habitat Division

Denali Highway Reconnaissance - September 9-11, 1986

<u>List of Streams Surveyed</u>	<u>Mile Post</u>
Denali Clearwater Creek	MP 18.5 — STEVE
Rock Creek	MP 24.8
Unnamed Creek	MP 33.3
Crooked Creek	MP 47.7
Crooked Creek	MP 51.9
Clearwater Creek	MP 55.9
Unnamed Creek	MP 59.8
Unnamed Creek	MP 65.9
Unnamed Creek = RAPT CREEK?	MP 69.1 DEN 00(?) MY MP = 68.2 (CHECK THIS LOCATION)
Unnamed Creek	MP 87.7 = DEN04
Unnamed Creek	could also be mp 89.9 = DEN03 MP 91.0 DEN02(?) CHECK MILEAGE MY LOG SHOWS MP 92.0 IF THIS IS SAME PIPE
Unnamed Creek	MP 93.2 = CHECK THIS LOCATION 30" R-CMP
Canyon Creek	MP 94.8 = BRIDGE
Unnamed Creek	MP 99.4 = CHECK THIS LOCATION = 72" CMP
Unnamed Creek	MP 103.6 = DEN01 72"
Unnamed Creek	MP 128.0 — STEVE

MEMORANDUM

State of Alaska

TO: Mike Tinker
Environmental Coordinator
Department of Transportation &
Public Facilities

DATE: September 29, 1986

FILE NO:

TELEPHONE NO: 479-0881

ALASKA DEPT. OF
FISH & GAME
FEB 16 2006

FROM: Alvin G. Ott *AG Ott*
Regional Supervisor
Habitat Division
Department of Fish and Game

SUBJECT: Denali Highway
Drainage Structure
Recon.

September 9-11, A. Townsend and K. Talbert conducted field reviews on drainage structures along the Denali Highway from milepost 0 to 104. Review sheets were completed for 15 streams either documented to have fish or suspected to have fish because of the habitat quality. This information is enclosed for your files.

Two small problems were encountered on this project. First, the primary camera used to document the drainage structure conditions and habitat qualities of the streams had a partial malfunction and numerous photos were ruined. A chip of film either broke off and interfered with the shutter or the second film roll contained a film fragment that fell free into the shutter. Second, both ADOT/PF Environmental Assessment maps and the ADF&G Alaska Sport Fishing Guide maps were insufficiently accurate relative to the occasional milepost markers to pinpoint actual stream locations. The first problem cannot be fixed; however, the second can be remedied by both agencies updating their documents and by resigning the highway as each new project is completed.

Thank you for the assistance provided by Ms. Talbert. Ms. Talbert demonstrated a willingness to learn and proved herself to be an asset to your professional staff.

cc: K. Talbert

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Unnamed Creek	MP 65.9
Unnamed Creek	MP 69.1
Unnamed Creek	MP 87.7
Unnamed Creek	MP 91.0
Unnamed Creek	MP 93.2
Canyon Creek	MP 94.8
Unnamed Creek	MP 99.4
Unnamed Creek	MP 103.6
Unnamed Creek	MP 128.0

#1 - Denali Clearwater Creek

DATE: September 9, 1986

FIELD OBSERVERS: Townsend and K. Talbert

STREAM NAME: Denali Clearwater Creek

STATION NUMBER (MILEPOST): Milepost 18.5

PHOTOGRAPHS: Roll #1 - Photo #'s 11A-14A

OBSERVATIONS: 2-72 inch diameter CMP's approx. 70 ft long

CMP OUTLET - Both perched 12 in., water 9 in. deep in CMP, plunge pool approx. 4 ft diameter at each pipe, rip rap scoured from both pipes.

CMP INLET - Approx. 12 in. drop (head), ponding upstream (pic 14).

FISH PASSAGE BARRIERS - Perched culverts 12 in. above pool surface

✓ HISTORICAL DATA - MP 18.1 in ADF&G Alaska Sport Fishing Guide Arctic grayling listed.

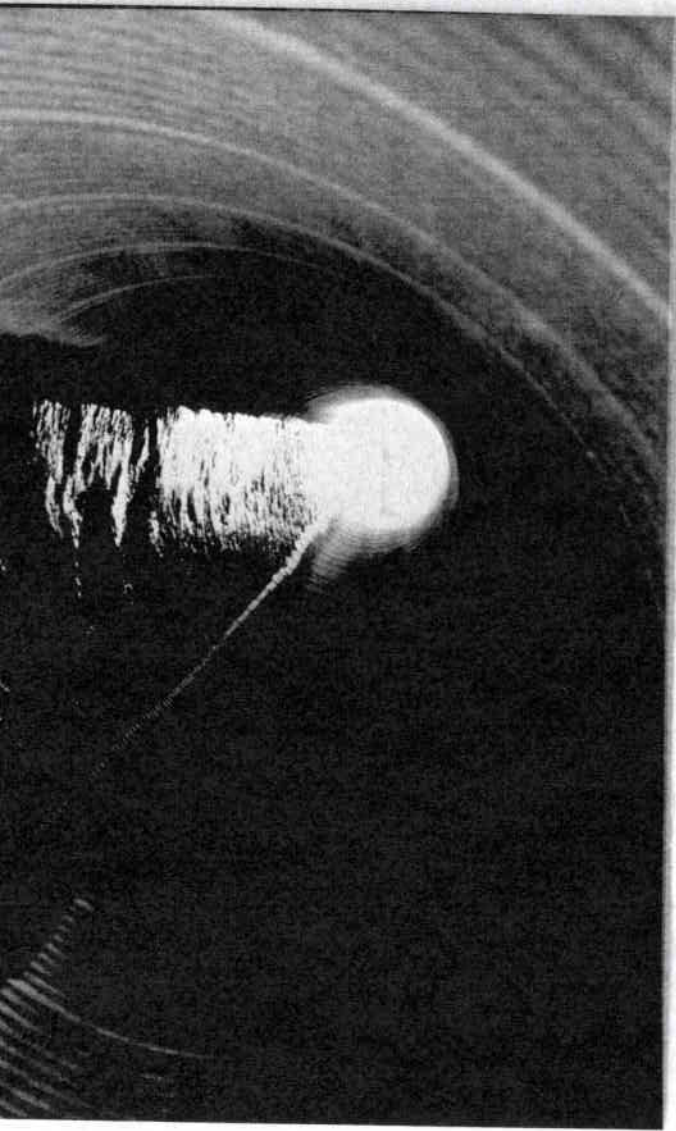
✓ RECOMMENDATIONS

(SHORT TERM) - Construct outlet apron (rock) 12-15' square at each pipe and up into pipe 6-12 in. deep.

(LONG TERM) - Reset both pipes.

Arctic grayling observed at outlet of east pipe (approx. 9-10 in.) approx. 50% algae cover on gravel/cobble substrate, pool to riffle approx. 20-80%, willow bank cover with +50% bank overhang.

P



13A



12A

12 A

Denali Clearwater Creek

MP 18.5

9-9-86

2-72" cnp's

Side view of outlets

13A

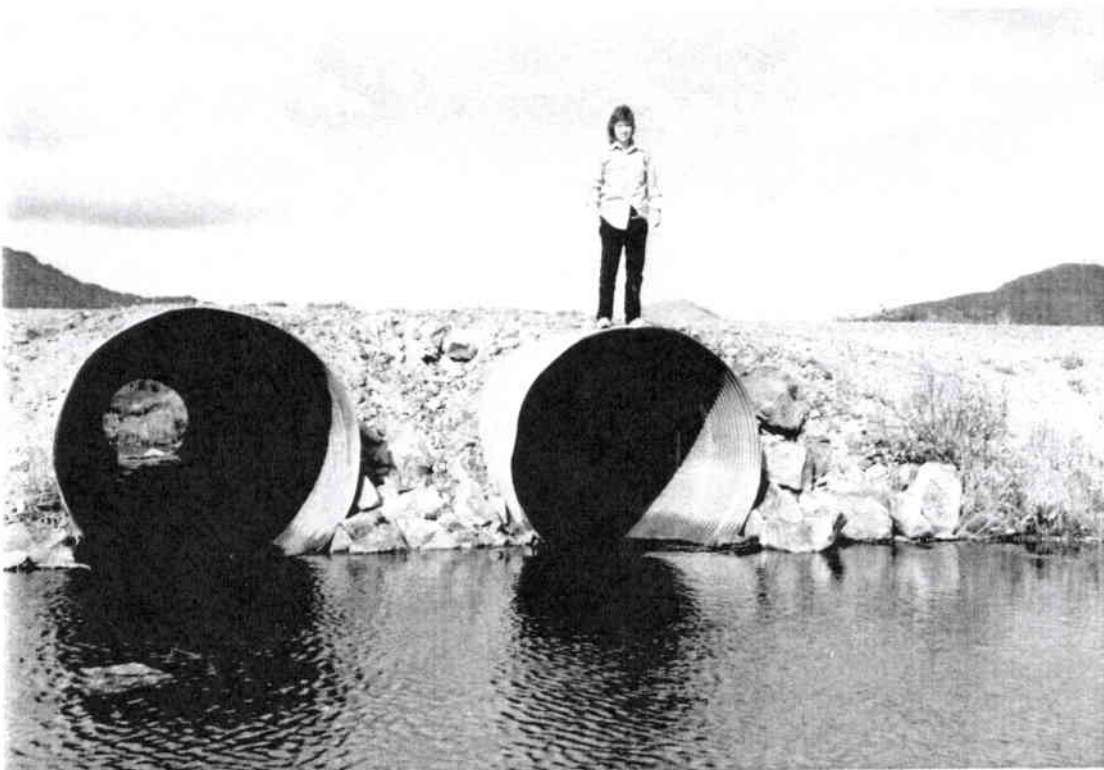
Senali Clearwater Creek

MP 18.5

9-9-86

Townsend / Talbert

inside of CMP



14A

14A

Denali Clearwater Creek

MP 18.5

9-9-86

Townsend/Talbert

2-72" CMP's inlets

ASU 11 30AM

AVIATION
JUL 11 1986

#2 - Rock Creek

DATE: September 9, 1986

FIELD OBSERVERS: Townsend and K. Talbert

STREAM NAME: Rock Creek

STATION NUMBER (MILEPOST): Milepost 24.8

PHOTOGRAPHS: Roll #1 - Photo #'s 15A-17A

OBSERVATIONS: Flow 35-40 cfs est., cobble to boulder bottom
- ~~should not~~ be culverted, dense willow bank cover. Bridge
alignment good.

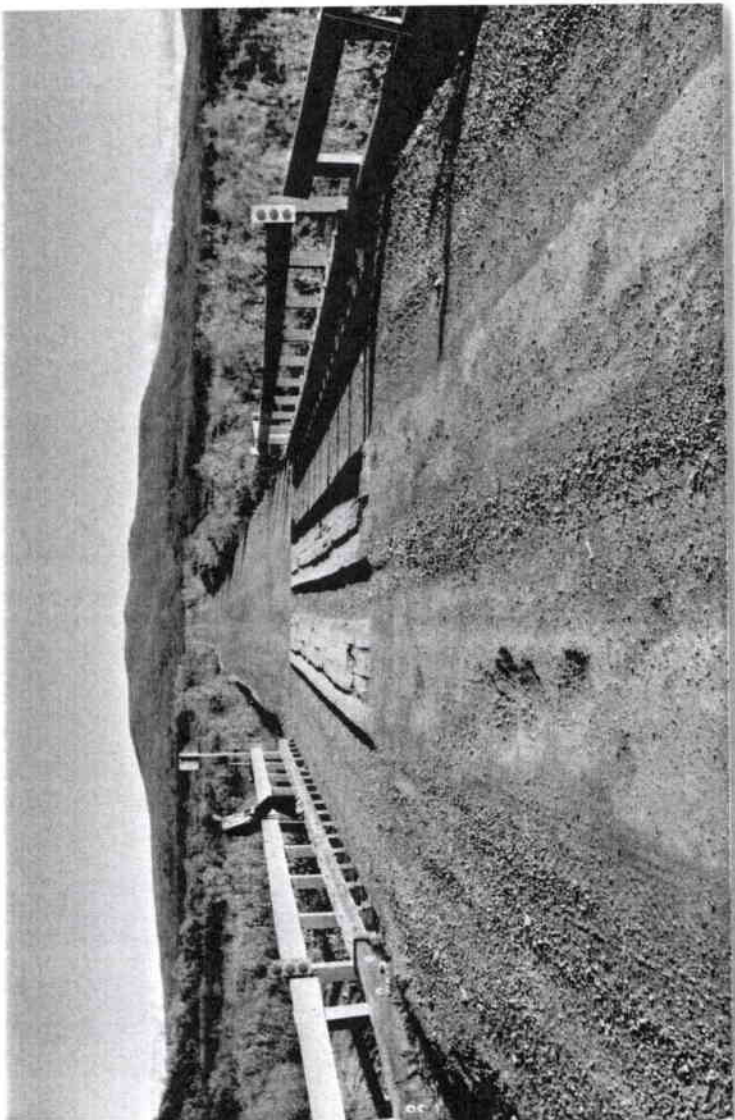
FISH PASSAGE BARRIERS - None observed

HISTORICAL DATA - Sport Fishing Guide MP 25.3 Arctic
grayling

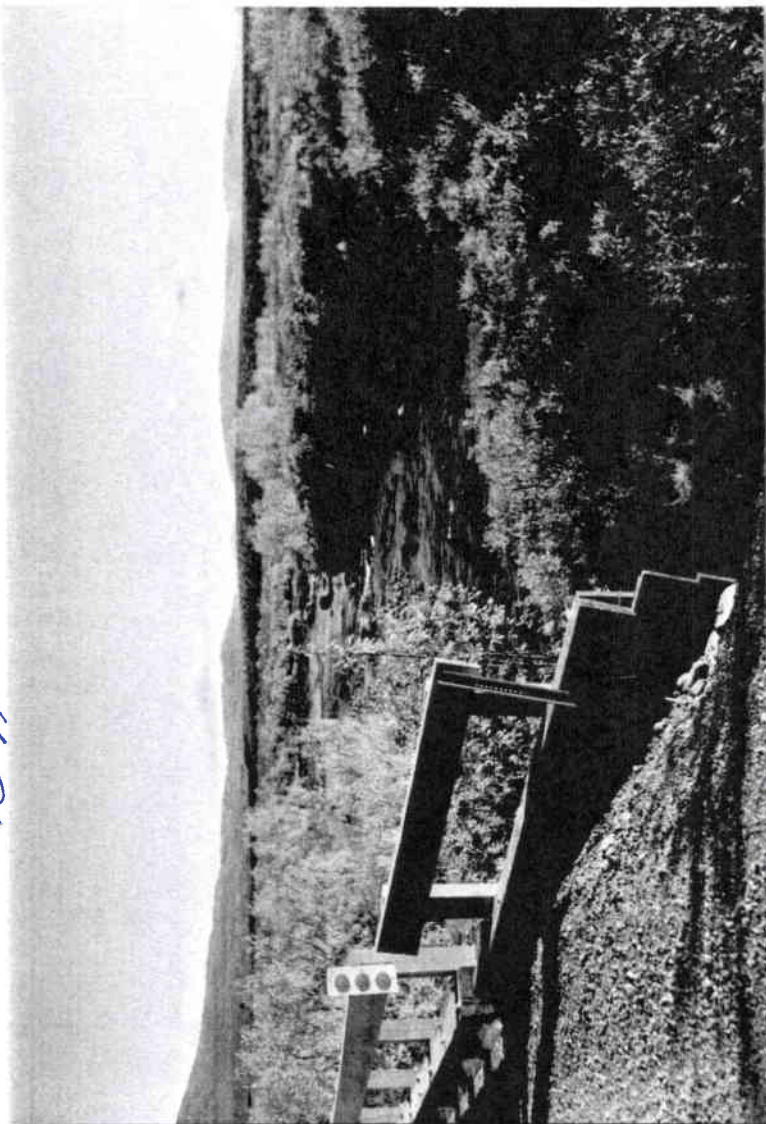
RECOMMENDATIONS -

SHORT TERM - None

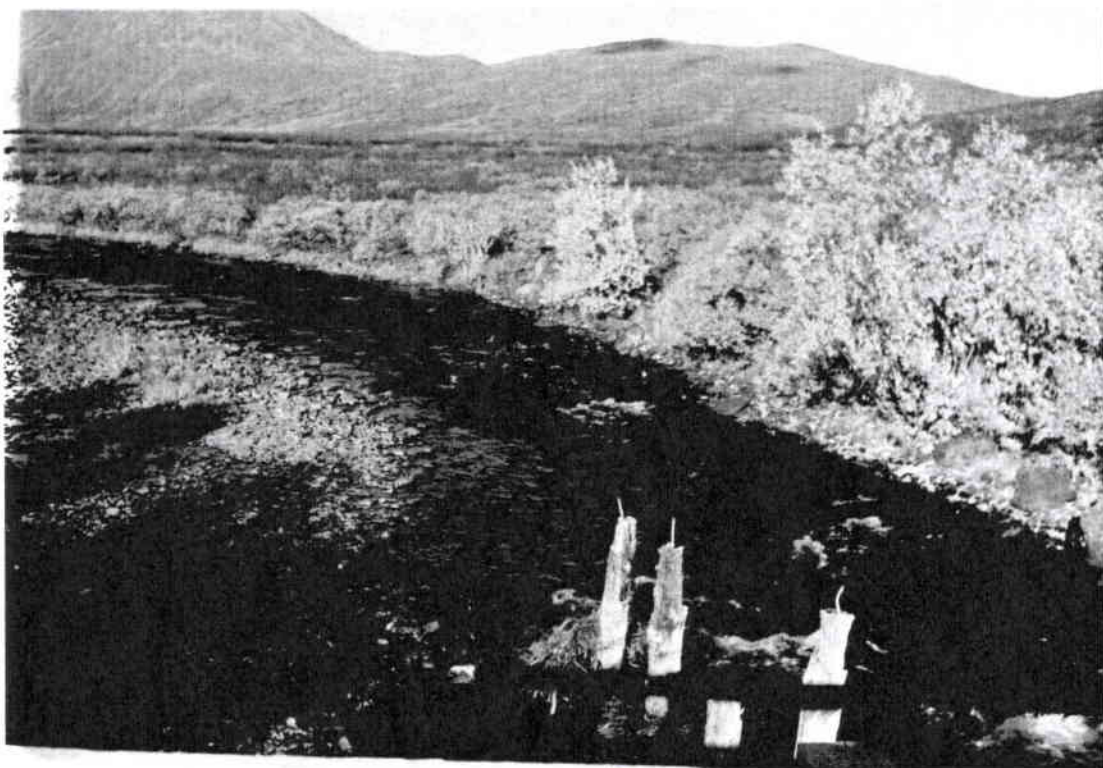
LONG TERM - New bridge when required.



15A



16A



17A

15A

Rock Creek

MP 24.8

bridge

Downsland / Talbert

9-9-86

17A

Rock Creek

MP 24.8

upstream

9-9-86

16A

Rock Creek

MP 24.8

Downstream from bridge

9-9-86

Downsland / Talbert

#3 - Unnamed Creek

DATE: September 9, 1986

FIELD OBSERVERS: Townsend and K. Talbert

STREAM NAME: Unnamed Creek Denali Hwy

STATION NUMBER (MILEPOST): Milepost 33.3

PHOTOGRAPHS: Role #1 - Photo #'s 18A-21A

OBSERVATIONS: 54" x 34" arch CMP

CMP OUTLET - Uptilted 1-2" no barrier, 50% bottom cover (gravel) in CMP.

CMP INLET - Uptilted 8-10" but no barrier.

FISH PASSAGE BARRIERS - None observed 100 yd. upstream nor 150 yds. downstream. Flow approx. $\frac{1}{2}$ cfs. Slow, many pools, canopy cover over 10-15% of area observed. Cobble, sand, and mud bottom.

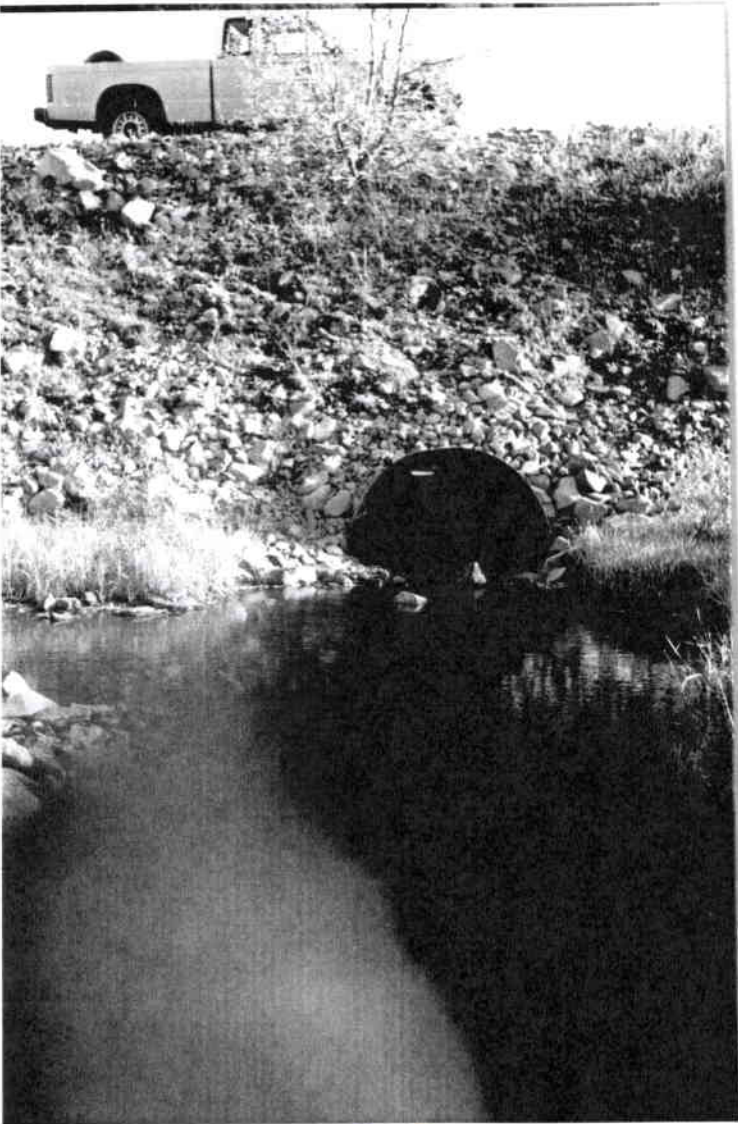
HISTORICAL DATA - No fish in Sport Fish Guide

RECOMMENDATIONS -

SHORT TERM - None

LONG TERM - Replace prior to road resurface.

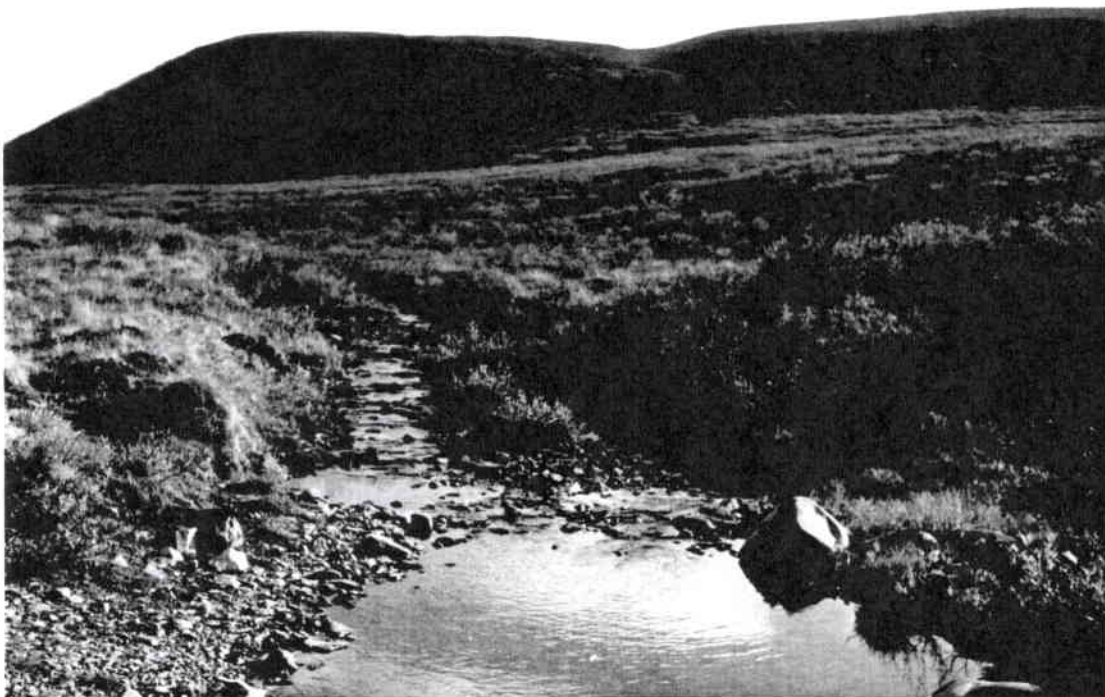
Should have fish - good habitat - check in spring for Arctic grayling, Dept. of Hwys Gravel Pit Reserve No. (gone) Marker on east bank on upstream side of road.



21A



18A



19A

21 A

Unnamed Creek
Denali Hwy MP 33.3
9-9-86
Jennard / Gilbert
outlet 34"x54" arch emp
and finger tip

18 A

Unnamed Creek
Denali Hwy MP 33.3
9-9-86
Jennard / Gilbert
inlet 34"x54" arch emp

19A

Unnamed Creek
Denali Hwy MP 33.3
9-9-86
Upstream from road



20A

20 A

Unnamed Creek
Denali Hwy MP 33.3
9-9-86
Towasend / Talbert
downstream from road

MADE IN U.S.A.

ЛАНЧЕР 90V
ЭЛЕКТРОН 116

#4 - Crooked Creek

DATA: September 10, 1986

FIELD OBSERVERS: Townsend and K. Talbert

STREAM NAME: Crooked Creek

STATION NUMBER (MILEPOST): Milepost 47.7

PHOTOGRAPHS: Roll #1 - Photo #'s 22A-24A (Roll #2 - Photo
#'s 00, 0 and 1 didn't develop)

OBSERVATIONS: Culvert size 54" d x approx. 70' l.

CMP OUTLET - 1/3 full, 5' deep x 20' diameter plunge pool,
12 + Arctic grayling up to 13". Gravel bottom covered with
algae.

CMP INLET - Badly torn and bent, 18 in. fall into CMP, small
woody trash collected on lip, approx. 4-5 cfs est.

FISH PASSAGE BARRIERS - CMP inlet (partial)

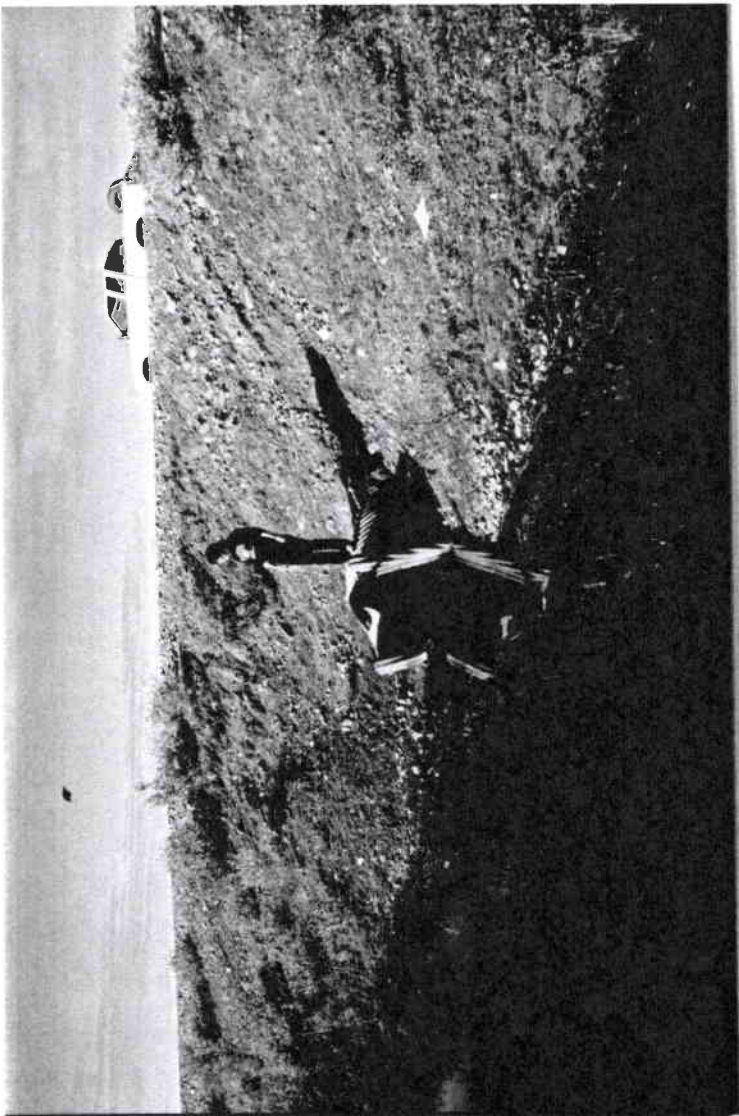
HISTORICAL DATA - Sport Fish Guide - Arctic grayling

RECOMMENDATIONS -

SHORT TERM - Replace 10' of inlet

LONG TERM - Increase pipe size

No pullout at CMP - pullout $\frac{1}{4}$ W.
Two moose in lake at 50 mile.



22A



23A



24A

22A

Crooked Creek - Denali Hwy MP 47.7

9-10-86

Donnauld / Jaltut

54" CMP

inlet with cumped edges

23A

Crooked Creek - Denali Hwy MP 47.7

9-10-86

Donnauld / Jaltut

54" CMP

inlet with cumped edges and collected
debris

24A

CROOKED Creek MP 47.7

9-10-86

54" CMP

outlet & sump pool

#5 - Crooked CreekDATE: September 10, 1986FIELD OBSERVERS: Townsend and K. TalbertSTREAM NAME: Crooked Creek (Denali Hwy)STATION NUMBER (MILEPOST): Milepost 51.9PHOTOGRAPHS: Role #2 - Photo #'s 0, 00OBSERVATIONS: High velocity 4½' water surface in MPCMP

CMP OUTLET - Set 2+' too high, 5-6' deep plunge pool, substrate = cobble with algae, pipe lip approx. 4" water under pool surface. Flow est. at 15+ cfs. Plunge pool 20' long x 15' wide x 5' deep. Water in pipe approx. 10-12"

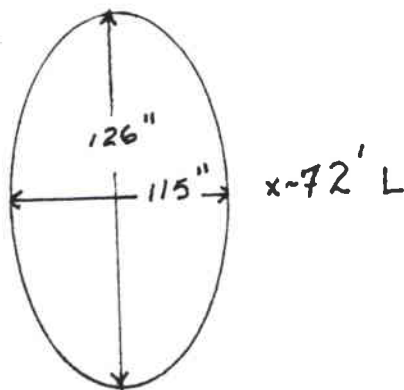
CMP INLET - Lip section upthrust several inches (5-6"?) about 12" hydraulic jump but little to no ponding.

FISH PASSAGE BARRIERS - Velocity barrier to juveniles (approx. 6 fps est.) fist size rocks flush through.

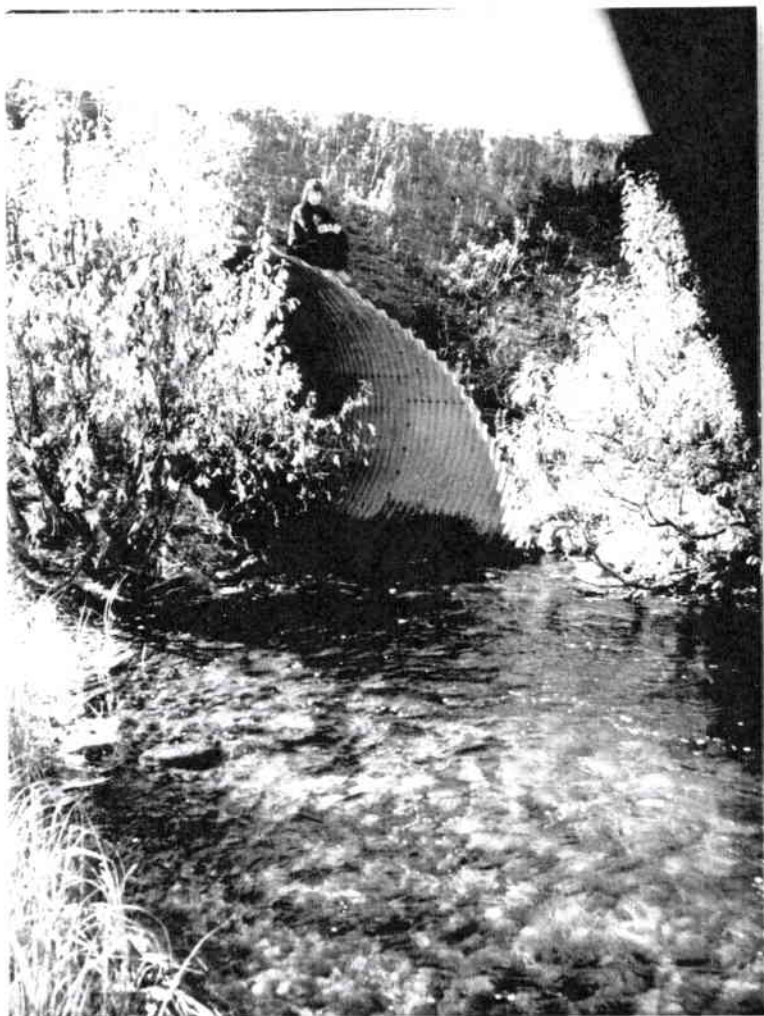
HISTORICAL DATA - n/a

RECOMMENDATIONS - Increase structure size with invert burial or bridge.

48" & 36" overflow pipes with thaw pipes at MP 52, no flow.



Camera malfunction resulted in loss of 4 pictures.



0



00

00

Crooked Creek - Denali Hwy MP 51.9

9-10-86

Townsend / Talbot

115" W x 126" h ellipse C.M. multiplate

lip upthrust (ice jacking??)

0

Crooked Creek - Denali Hwy MP 51.9

9-10-86

Townsend / Talbot

Stream channel above culvert

#6 - Clearwater Creek

DATE: September 10, 1986

FIELD OBSERVERS: Townsend and K. Talbert

STREAM NAME: Clearwater Creek (Denali Hwy)

STATION NUMBER (MILEPOST): Milepost 55.9

PHOTOGRAPHS: Role #2 - Photo #'s OA & 1A

OBSERVATIONS: Cobble/gravel substrate

CMP OUTLET - n/a

CMP INLET - n/a

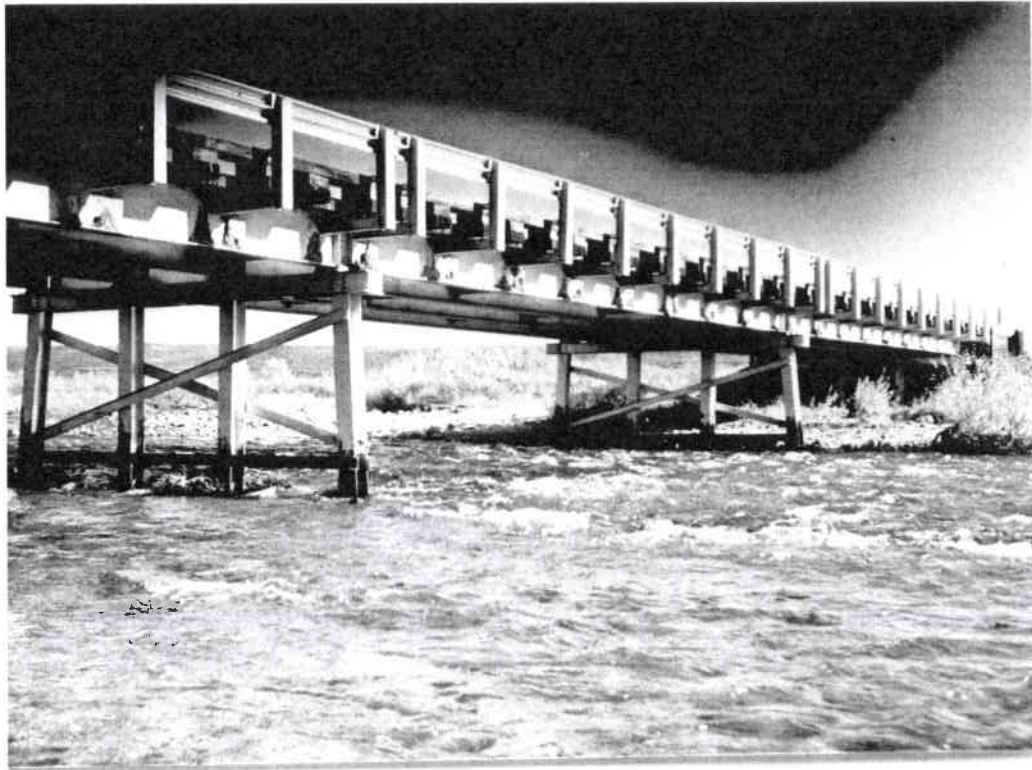
FISH PASSAGE BARRIERS - n/a

HISTORICAL DATA - Sport Fish Guide MP 59

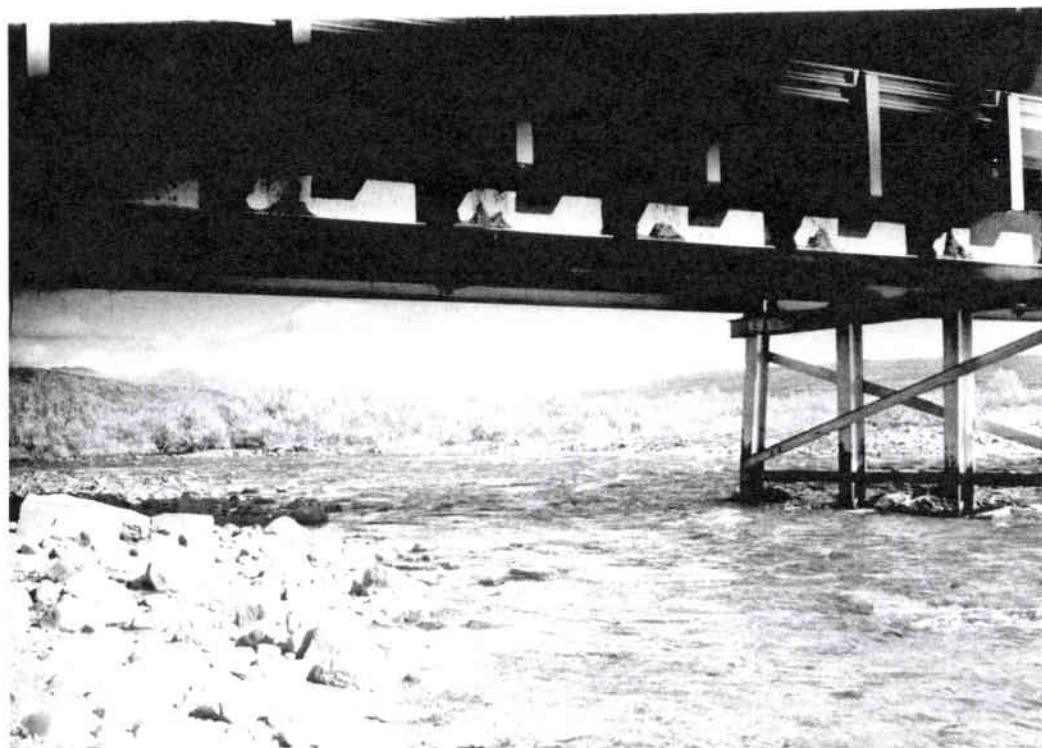
RECOMMENDATIONS - n/a

Two steel piers (H-beam) in channel single lane bridge, good alignment, good floodplain spanning. Pullout with restroom present on west bank.

0A



1A



OA

Clearwater Cr. - Denali Hwy MP 55.9

9-10-86

Journead / Talbert

View toward NE

IA

Clearwater Cr. - Denali Hwy MP 55.9

9-10-86

Journead / Talbert

View toward NNE

#7 - Denali HwyDATE: September 10, 1986FIELD OBSERVERS: Townsend and K. TalbertSTREAM NAME: Denali HighwaySTATION NUMBER (MILEPOST): Milepost 59.8PHOTOGRAPHS: Role #2 - Photo #'s 3, 4, 6OBSERVATIONS:

CMP OUTLET - Good burial depth, outlet pool gravel with cobble/algae line thru water approx. 2' deep (pic 6)

CMP INLET - Cobbles in inlet, lip slightly upthrust, lip 12" below streambed, gravel-cobble substrate at inlet, approx. 5 cfs.

FISH PASSAGE BARRIERS - Inlet partial, beaver pond 100' above inlet (double level-each about 3' high) (pic 3, 4).

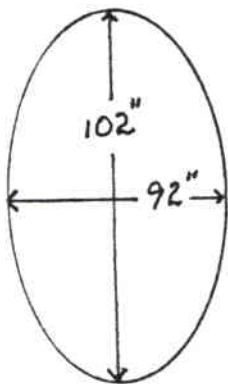
HISTORICAL DATA - Old Material Site on downstream west bank as camping and stream access.

RECOMMENDATIONS -

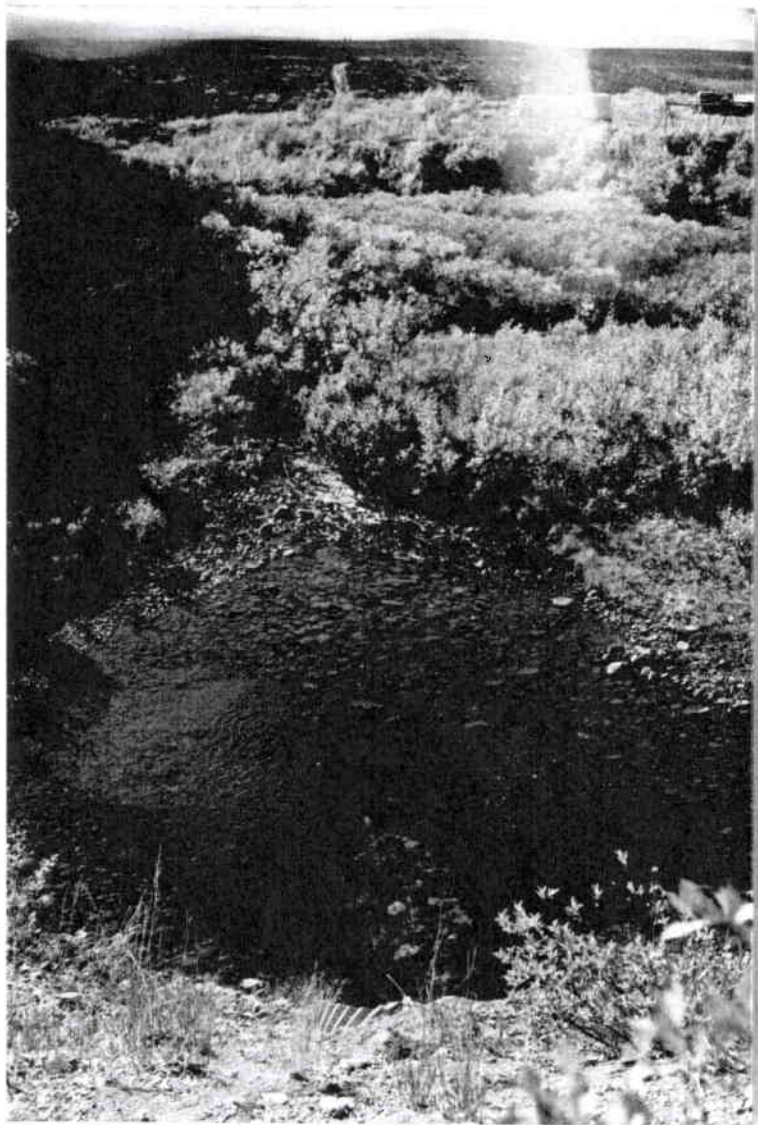
SHORT TERM - clean out inlet

LONG TERM - reset with deeper burial, may require larger pipe

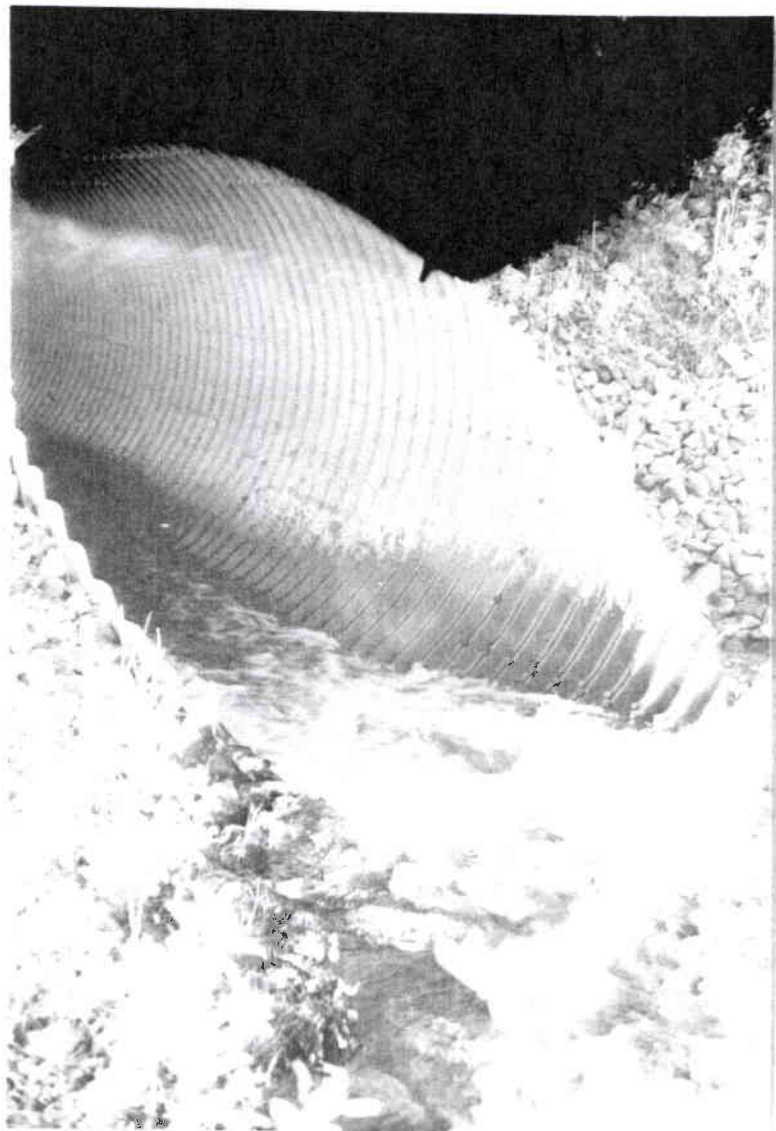
MPCMP about 100' long



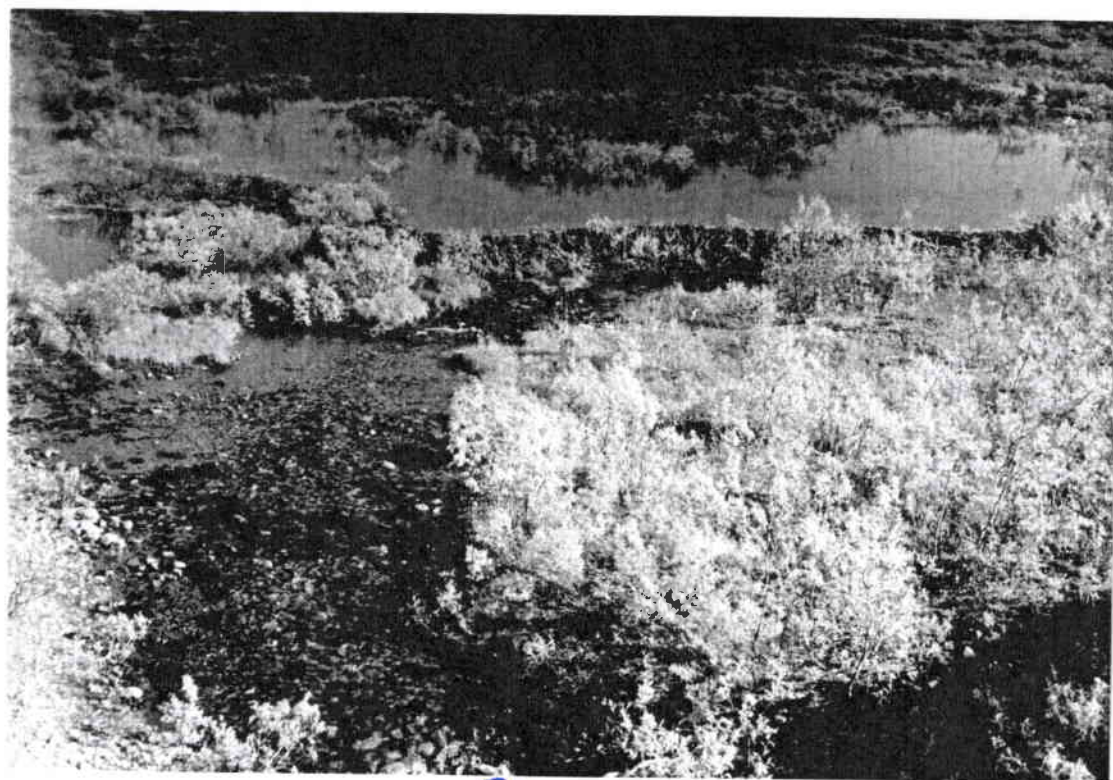
Camera malfunction resulted in photo loss.



6A



4A



3A

6.5A

Unnamed Cr. - Devils Hwy MP 59.8

9-10-86

Townsend / Talbert

downstream view from road

3A Unnamed Cr MP 59.8
9-10-86
upstream view from cmp

9-10-86
Townsend / Talbert
culvert inlet

Unnamed Cr. - Devils Hwy MP 59.8

4.3A

#8 - Denali HwyDATE: September 10, 1986FIELD OBSERVERS: Townsend and K. TalbertSTREAM NAME: Denali HighwaySTATION NUMBER (MILEPOST): Milepost 65.9PHOTOGRAPHS: Roll #2 - Photo #'s 7-9OBSERVATIONS:

CMP OUTLET - Set at streambed level (culvert set flatter slope than stream slope)

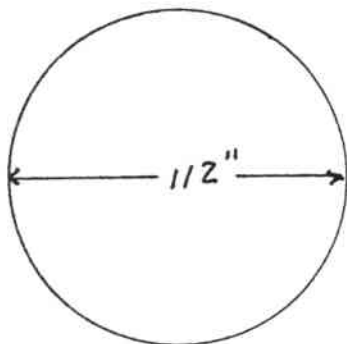
CMP INLET - Cobble/boulder stepped, steep mountain stream 18" below streambed, slightly upthrust.

FISH PASSAGE BARRIERS - Velocity (approx. 5 fps) in pipe and may be in natural stream (2-3' steps over boulders).

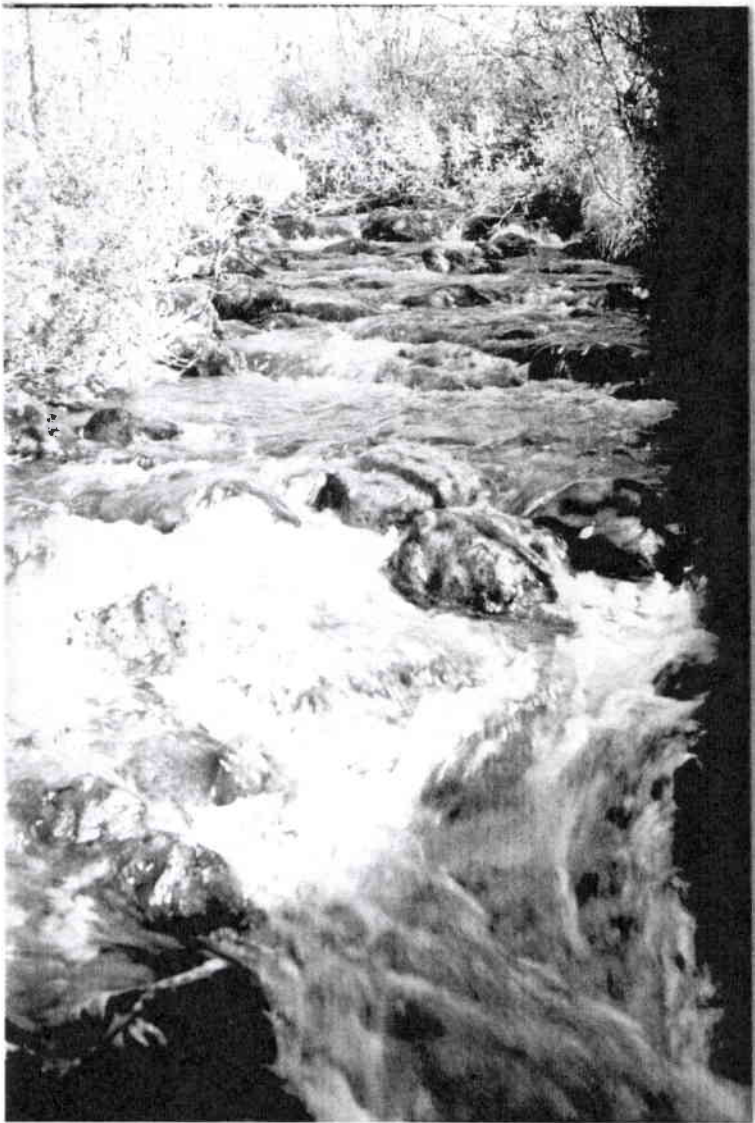
HISTORICAL DATA - n/a

RECOMMENDATIONS - n/a

No fish observed - D.V. possible
RMPCMP approx. 100' long



~ 20° skew to road



8A



9A



7A

8A

Unnamed Cr. - Doral Hwy MP 65.9

9-10-86

view from culvert upstream

downward / collect

9A

Unnamed Cr. - Doral Hwy MP 65.9

9-10-86

culvert outlet

downward / collect

7A Unnamed Cr MP 65.9

9-10-86

cmp inlet

#9 - Denali HwyDATE: September 10, 1986FIELD OBSERVERS: Townsend and K. TalbertSTREAM NAME: Denali HighwaySTATION NUMBER (MILEPOST): Milepost 69.1PHOTOGRAPHS: Roll #2 - Photo #'s 13, 14, 14AOBSERVATIONS: Alder lined banks

CMP OUTLET - Perched approx. 14 in above pool surface, scour pool 4+' deep x 12' wide x 12' long.

CMP INLET - Set at streambed - cobble to boulders.

FISH PASSAGE BARRIERS - Culvert at about 3-4% grade (est.)

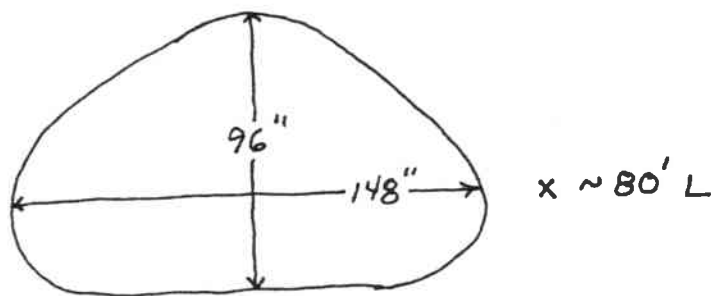
HISTORICAL DATA - n/a

RECOMMENDATIONS -

SHORT TERM - install angular 100# + rip rap apron if fish documented

LONG TERM - n/a

Steep mountain stream, D.V. very possible
Thaw pipes (3) washed out (1) still in place



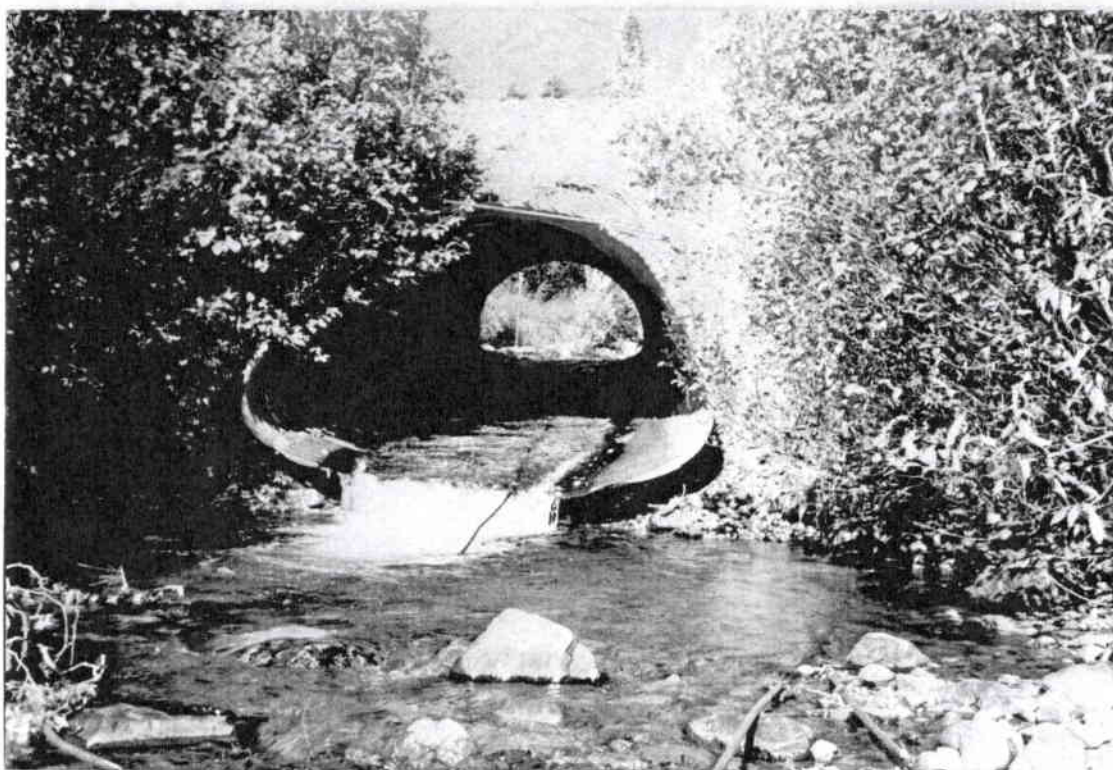
Camera malfunction resulted in loss of 4 photos.



13A VIEW UIS



14A VIEW DIS



cmp outlet

~~12A~~
13

Unnamed Cr. - Denali Hwy Mp 69.1

9-10-86

View upstream from inlet

Journsund / Talbert

14A

Unnamed Cr - Denali Hwy Mp 69.1

9-10-86

View downstream from above outlet

Journsund / Talbert

#10 - Denali Hwy

DATE: September 10, 1986

FIELD OBSERVERS: Townsend and K. Talbert

STREAM NAME: Denali Highway

STATION NUMBER (MILEPOST): Milepost 87.7

PHOTOGRAPHS: Roll #2 - Photo #'s 17-19

OBSERVATIONS: Two CMP's

CMP OUTLET - Both perched approx. 5 ft, cobble/gravel scoured away from boulders, boulder jumble 20' out from outlets then 3' drop to creek bed. CMP's 2-3' above boulders.

CMP INLET - Cobble build-up 12-15" in front of CMP (left) 15-18" (right), 7-10 cfs left, 2-3 cfs right

FISH PASSAGE BARRIERS - CMP outlets and boulder pile and inlets

HISTORICAL DATA - n/a

RECOMMENDATIONS - Steep stream that drops 200'+ feet to Susitna in approx. 2 miles.

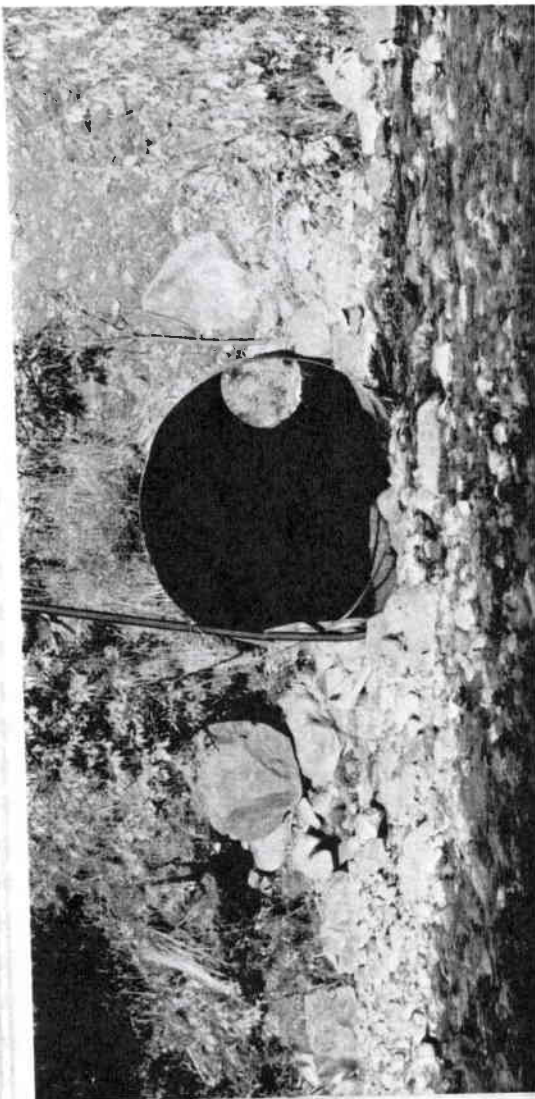
SHORT TERM - No cure

LONG TERM - bridge

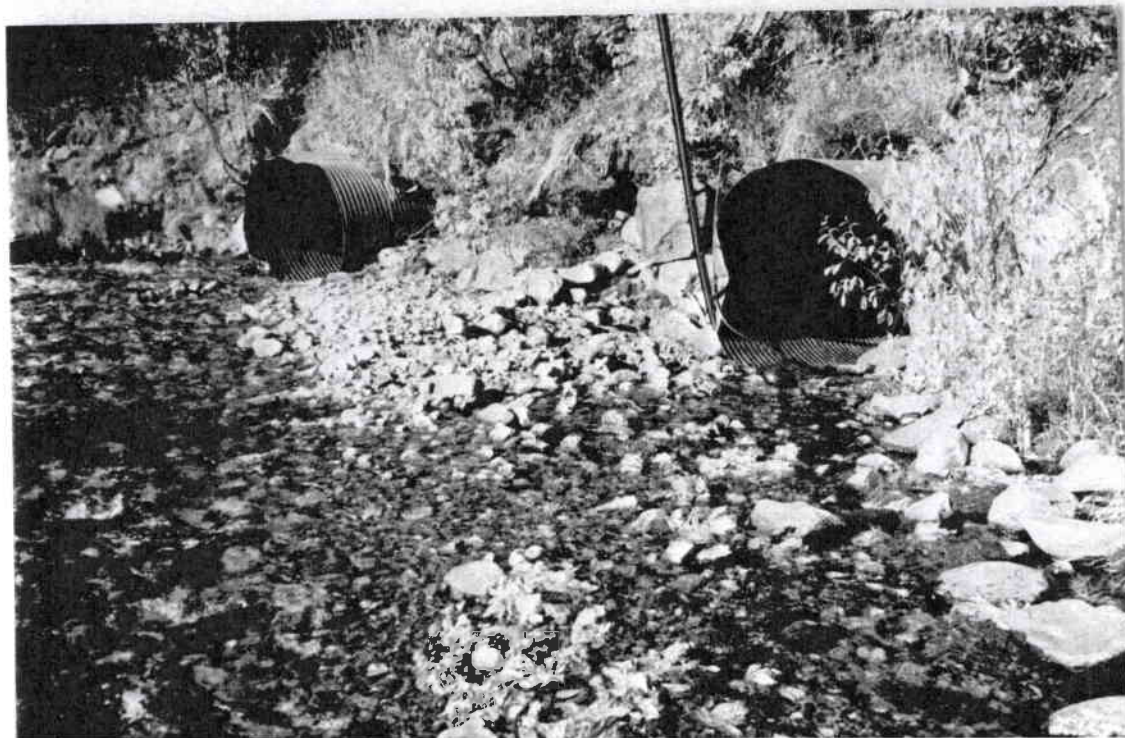
Camera malfunction resulted in loss of 2 photos.



17A



18A



19A

cmp inlets

17A

Unnamed Cr. - Denali Hwy mp 87.7

9-10-86

Left culvert inlet

Journead / Jalbert

18A

Unnamed Cr. - Denali Hwy mp 87.7

9-10-86

Right Culvert inlet

Journead / Jalbert

#11 - Denali Hwy

DATE: September 11, 1986FIELD OBSERVERS: Townsend and K. TalbertSTREAM NAME: Denali HighwaySTATION NUMBER (MILEPOST): Milepost 91PHOTOGRAPHS: Roll #2 - Photo #'s 20-23 and Roll #3 - Photo # 0AOBSERVATIONS: Approx. 5-7 cfs, gravel-cobble with 10% boulders

CMP OUTLET - $\frac{1}{2}$ submerged, scour pool 6' wide x 10' long x 2' deep, outwash riffle passable. Overflow approx. 10' above serviceable CMP.

CMP INLET - First 10-12' CMPA then connects to RCMP causing approx. 15" fall inside of pipe.

FISH PASSAGE BARRIERS - Numerous debris (woody) and boulder steps along $\frac{1}{4}$ mi downstream reach likely restrict juvenile Arctic grayling. Inlet first 10-12' of pipe barrier to all fish.

HISTORICAL DATA - Old installation with old repair to inlet, thaw pipe in place.

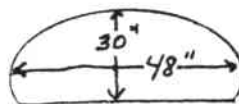
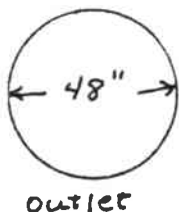
RECOMMENDATIONS -

SHORT TERM - none

LONG TERM - replace with larger culvert

Less than $\frac{1}{2}$ mile of fish habitat upstream of road but may flow from pond.

Heavy willow/alder bank cover, 2 channel splits in first $\frac{1}{4}$ mile below road, swift mountain stream.



inlet first 10'

Camera malfunction resulted in the loss of 4 photos.



23A



0A



22A view downstream

23A

Unnamed Cr - Denali Hwy Mp 91

9-11-86

View upstream from road

Journsund / Jalbert

OA

Unnamed Cr. Denali Hwy Mp 91

9-11-86

inlet w/ film chip obstructing shutter

Journsund / Jalbert

MADE IN U.S.A.



20A

20A

Unnamed Cr - Denali Hwy Mf 91

9-11-86

Culvert outlet

Jonesend / Talbert

#12 - Denali Hwy

DATE: September 11, 1986

FIELD OBSERVERS: Townsend and K. Talbert

STREAM NAME: Denali Highway

STATION NUMBER (MILEPOST): Milepost 93.2

PHOTOGRAPHS: Roll #3 - Photo #'s 2, 3, 5

OBSERVATIONS: 2-3 cfs, more than $\frac{1}{2}$ mile of stream above road, thaw pipe in place.

CMP OUTLET - Perched 4-5', plunge pool 8' long x 6' wide x 2 $\frac{1}{2}$ ' deep, cobble-gravel bottom - not overly swift stream (medium velocity mountain stream).

CMP INLET - Up thrust 8-10", cobble-boulder, low step, heavily canopied over with alder and willow. First 15' of CMP steep and fast.

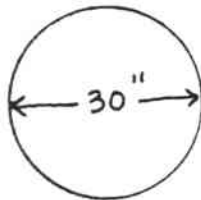
FISH PASSAGE BARRIERS - Inlet velocity first 15', outlet perched.

HISTORICAL DATA - n/a

RECOMMENDATIONS -

SHORT TERM - no fix feasible (replace)

LONG TERM - replace with larger CMP



Camera malfunction resulted in loss of 2 photos.



2A

INLET



OUTLET

5A



3A view downstream
below cnp

2A

Unnamed Cr - Denali Hwy mp 93.2

9-11-86

culvert inlet

Townsend / Talbert

5A

Unnamed Cr. - Denali Hwy mp 93.2

9-11-86

culvert outlet

Townsend / Talbert

#13 - Denali Hwy New Bridge

DATE: September 11, 1986

FIELD OBSERVERS: Townsend and K. Talbert

STREAM NAME: Canyon Creek

STATION NUMBER (MILEPOST): Milepost 94.8

PHOTOGRAPHS: Roll #3 - Photo #'s 8-10

OBSERVATIONS: Poor bank stabilitation, good channel spanning by new bridge - no apparent channel disturbance except for minor rip rap encroachment on west bank, poor revegetation (just coming up - late seeding?)

CMP OUTLET - n/a

CMP INLET - n/a

FISH PASSAGE BARRIERS - n/a

HISTORICAL DATA - n/a

RECOMMENDATIONS -

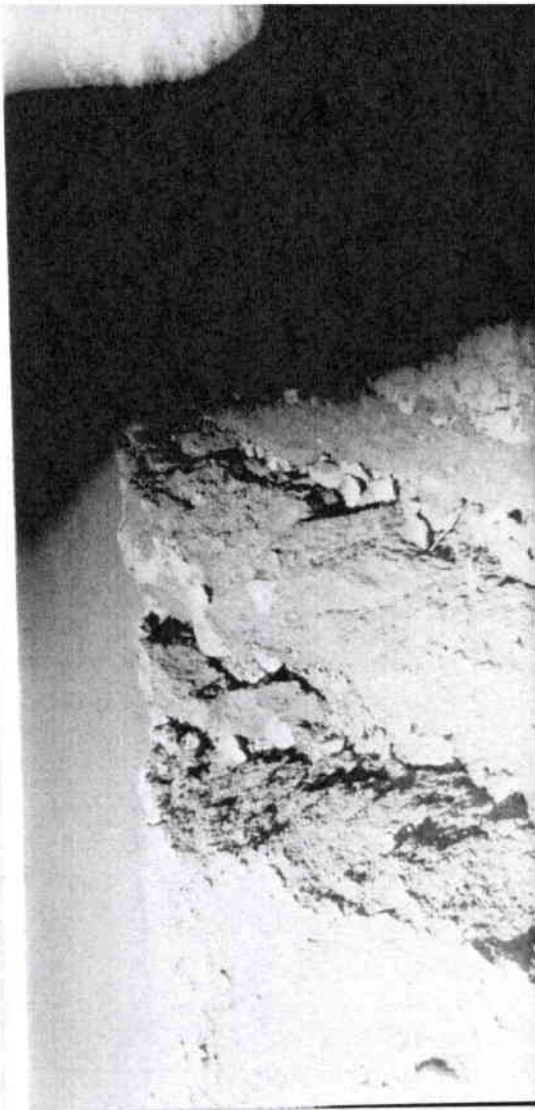
SHORT TERM - armor base of waste material and construct catch basin for sediment. Redo seeding.

LONG TERM - None at present.

Camera malfunction resulted in loss of 2 photos.



9A



8A



10A view upstream
under bridge

9A

Canyon Creek - Denali Hwy mp 94.8

9-11-86

View from base of waste area → upstream
note sediment channel in dozer track
directly to creek.

Townsend / Talbert

8A

Canyon Cr - Denali Hwy mp 94.8

9-11-86

erosion on waste material

Townsend / Talbert

#14 - Denali Hwy

DATE: September 11, 1986

FIELD OBSERVERS: Townsend and K. Talbert

STREAM NAME: Denali Highway

STATION NUMBER (MILEPOST): Milepost 99.4

PHOTOGRAPHS: Roll #3 - Photo #'s 12, 13, 17

OBSERVATIONS: 6' alum. CMP west side, 60" steel CMP east side.

CMP OUTLET - Both perched 1'+ above water surface, both with 15'diameter 3-4' deep scour pools.

CMP INLET - West pipe 6" below stream bed with boulder armor on sides, gravel stream bed (2 cfs) appears to be off-channel. East pipe (20' separation) in channel, set 12" deep, approx. 5 cfs with boulder side armor-gravel bottom-pipes bare inside.

FISH PASSAGE BARRIERS - outlets perched.

HISTORICAL DATA - n/a

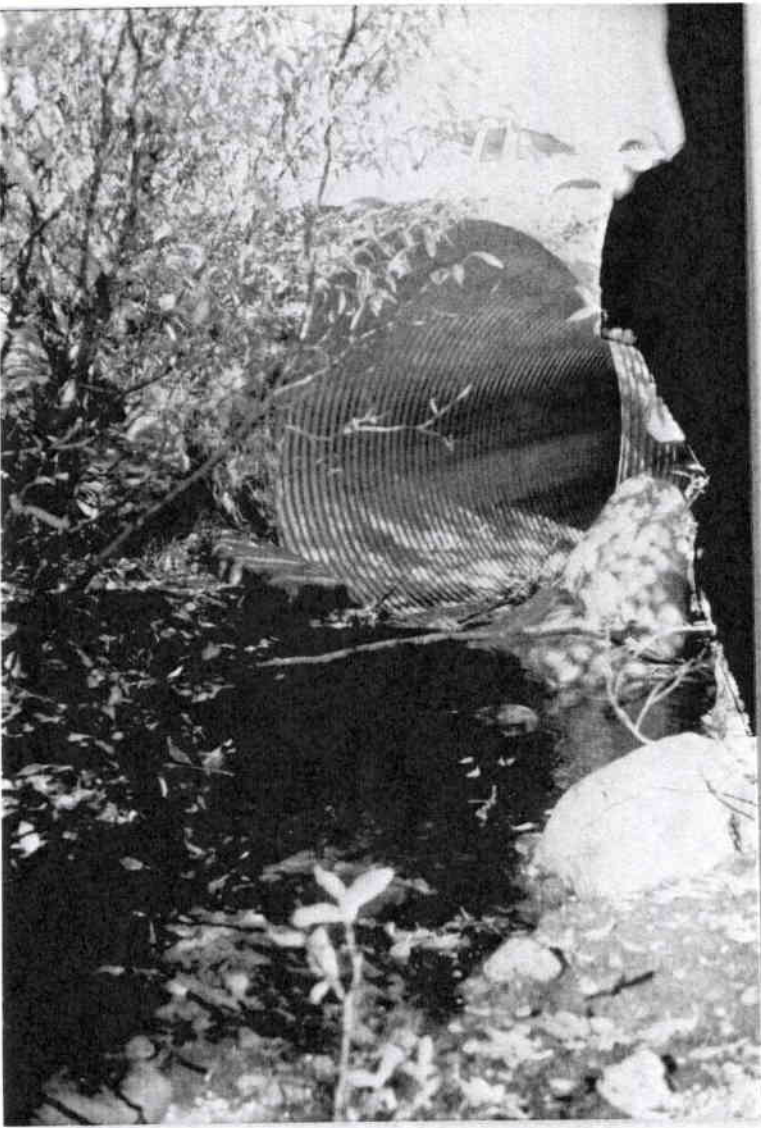
RECOMMENDATIONS -

SHORT TERM - outlet aprons

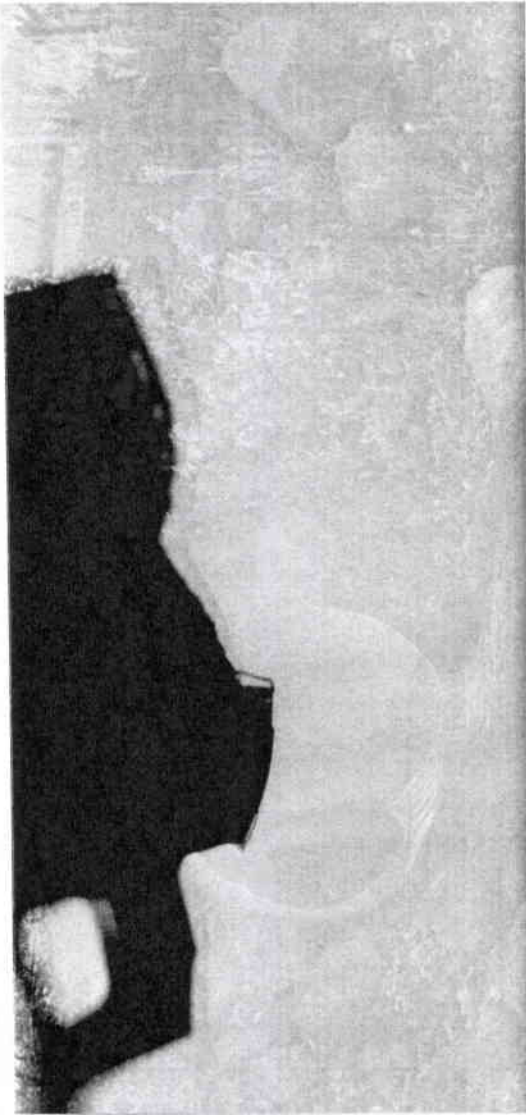
LONG TERM - much larger culverts with 20% buried

Very good fish habitat - high potential

Camera malfunction resulted in loss of 4 photos.



12A



17A



13A E cmp inlet

12 A

Unnamed Cr. - Denali Hwy Mp 99.4

9-11-86

W. Culvert inlet

Townsend / Talbert

17 A

Unnamed Cr. - Denali Hwy Mp 99.4

9-11-86

W. culvert outlet

Townsend / Talbert

#15 - Denali Hwy

DATE: September 11, 1986

FIELD OBSERVERS: Townsend and K. Talbert

STREAM NAME: Denali Highway

STATION NUMBER (MILEPOST): Milepost 103.6

PHOTOGRAPHS: Roll #3 - Photo #'s 19-22

OBSERVATIONS: Grassy/sedge meadow stream approx. 5 cfs.

CMP OUTLET - Beaver debris splits channel; pipe set at stream bed, water approx. 6" deep in pipe.

CMP INLET - Buried approx. 6", deep pools short riffles upstream, filamentous green algae abundant. Old shoofly road never removed - beaver dam across eroded channel through shoofly. New alum end added to old steel CMP.

FISH PASSAGE BARRIERS - Beaver dam 100' upstream at low flow.

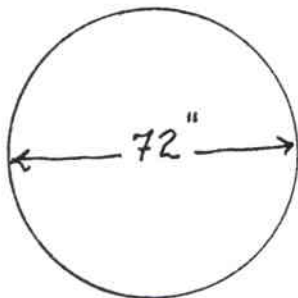
HISTORICAL DATA - n/a

RECOMMENDATIONS -

SHORT TERM - n/a

LONG TERM - remove old shoofly road, culvert scraps, install larger CMP.

Old pipe pieces scattered about below road indicate previous washout of CMP.



Camera malfunction resulted in loss of one photo.



20A



19A



21A cmp outlet

20 A

Unnamed Creek - Denali Hwy MP 103.6

9-11-86

Upstream view from road (film chip black spot)
Townsend/Talbert

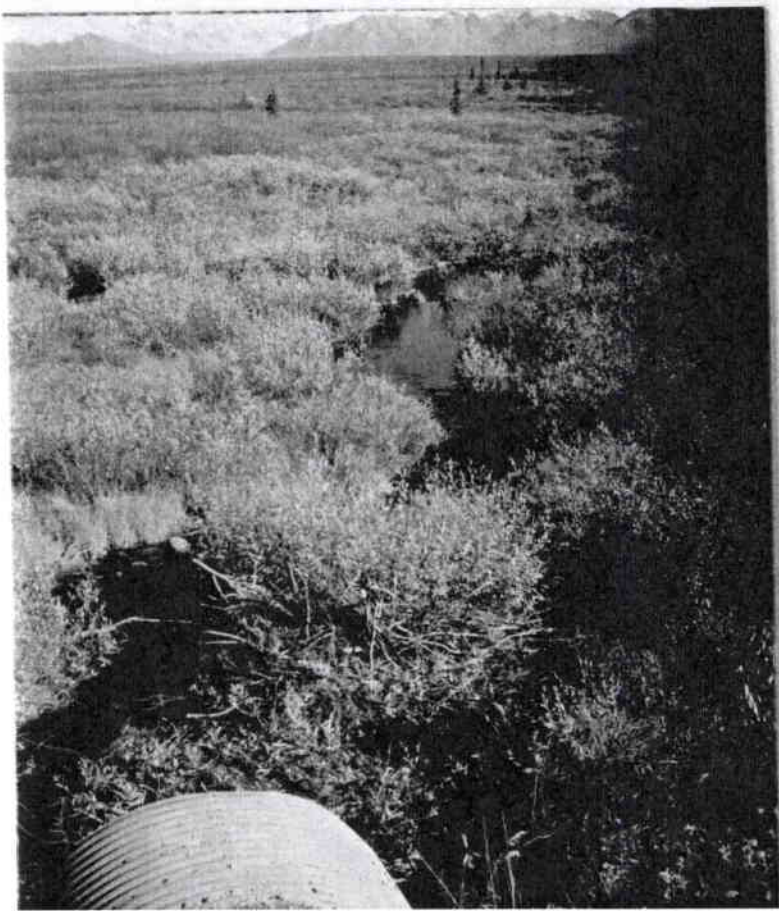
19 A

Unnamed Cr. - Denali Hwy MP 103.6

9-11-86

Upstream

Townsend/Talbert



22A

22A

Unnamed Cr. - Denali Hwy MP 103.6

9-11-86

Downstream

Jonesed / Salbert

#16 - Denali Hwy

DATE: September 11, 1986

FIELD OBSERVERS: Townsend and K. Talbert

STREAM NAME: Fish Creek

STATION NUMBER (MILEPOST): Milepost 128

PHOTOGRAPHS: Roll #3 - Photo # 23

OBSERVATIONS: Streambed substrate extends through both pipes, thaw pipes in place.

CMP OUTLET - Both excellent, buried approx. 3'.

CMP INLET - Both excellent, buried approx. 3'.

FISH PASSAGE BARRIERS - None

HISTORICAL DATA - Old bridge replaced by 2-14' MPCMPs.

RECOMMENDATIONS - None

SHORT OR LONG TERM - old construction shoofly removal

Camera malfunction resulted in loss of 2 photos.



23A

23 A

Fish Cr - Denali Hwy mp 128

9-11-86

Joneses / Talbert