

STATE OF WASHINGTON
DEPARTMENT OF FISH & WILDLIFE
LANDS AND RESTORATION SERVICES PROGRAM
Salmonid Screening, Habitat Enhancement &
Restoration Division (SSHEAR)

OFF-CHANNEL SITE INVENTORY DATA

General Information:

Region: North Coast	Observer(s): Nettnin
River System: Sol Duc	Date: 1/8/97
Site Identifier: S-304L-03	WRIA: 20.0304 H (Proposed)
River Mile Location: 1.6	RB/LB: LB
Local Name: Luken Marsh	Trib. to: E.F. Gunderson Cr. 20.0304 A
Legal Description: NE¼ Sec 20 T29N R13W	County: Clallam

Habitat Type: Terrace Tributary

Landowner: Federal State County Other Government Private

- Joel Dahlgren
- Possible other private landowners involved.
- Department of Natural Resources

Directions to site:

Starting at Forks drive north on highway 101 to Luken Rd. (MP 196.2 access to Forest Service headquarters). Turn onto Luken Rd. and proceed about 0.1 mi. to the top of the hill. There are two driveways, one to the left and one to the right, go straight and park at the cable gate. Proceed down the road through the timber and into a pasture. Part way through the pasture one will cross a culvert (about 0.2 mi. from the gate.). This is Luken Marsh (S-304L-03).

Site Overview:

This first order stream drains about forty acres. It is flat gradient and consists of mainly scrub-shrub wetland. The middle reach flows through pasture and has been impacted by land clearing.

Habitat Information:

Water source: Surface runoff and wetlands

Intermittent/year-around: Unknown probably intermittent

Estimated flows (cfs): Lower end: 2 - 3 Upper end: wetland (no channel)
- 1/15/97: 60 -80 gpm at the culvert in the middle reach

Water temperatures: Lower end: 6.5° C Upper end: 6.5° C
- 1/15/97: 2° C at culvert in the middle reach
- 2/12/97: 4° C at minnow trap sites.

Adjacent stream temperature: E.F. Gunderson Cr. 5° C
- 2/12/97: 4.5° C

Other water observations: Water is clear

Site area measurements: Indirect Direct Combination

Widths: Channel- 1 - 3 m Ponds- Wetlands- 20 - 30 m
Depths: Channel- 10- 20 cm Ponds- Wetlands- 10 - 20 cm Max- 60 cm
Total length surveyed (includes ponds and wetlands): 790 m

Total existing habitat area (est.): 8,375 m²

Spawning area: None
Impounded area: 8,000 m²
Other rearing area: 375 m²

Spawning Habitat conditions: None Poor Fair Good Excellent

Describe spawning habitat: NA

Rearing habitat conditions: None Poor Fair Good Excellent

Describe pond and other rearing habitat:

- Channel is a wide shallow wetland with sedges, rushes, red osier dogwood, willow, crab apple, spirea and salmonberry which provide shade and cover. There is some woody debris from past logging which also provides cover.
- The impounded, dense scrub-shrub wetland in the upper reach is difficult to access and was unable to obtain descriptive details. It should be good habitat if fish are able to access it.
- There is an arm of this wetland that pools under a road and into open pasture.

Describe unaccessible habitat:

- This entire stream may be unaccessible due to heavy concentrations of reed canary grass at the confluence with E.F. Gunderson.

Describe wetland: Bog Marsh Scrub-shrub Wetland Forested Wetland

- This stream is of a wetland appearance but has two distinct reaches.
- The reach from the mouth up to the culvert is about 20 m wide and 375 m long. It supports: sedges, rushes, spirea, ninebark, willow, red osier dogwood, spruce and cedar. It lies between a low terrace to the left bank and low land that has been converted from forested wetland to pasture land. During the land clearing operation a portion of the channel was impacted.
- The reach above the culvert is impounded but has very little open water. It is 20 - 40 m wide and about 200 m long. The vegetation is much the same as the lower reach, but much denser in places.

Flooding potential: Low Medium High

- This system is well removed from any flood potential.

Fish Information:

Site entry condition to (E.F. Gunderson 20.0304 A): Poor Fair Good

- The physical location just above a beaver dam is good but because of the concentration of reed canary grass, which defuses the flow and mats in the channel, it is unlikely that fry will find the entrance.

Coho access and use:

- Juvenile- Unknown None Poor Fair Good
Adult- Unknown None Poor Fair Good
- Due to poor access conditions I feel coho are not using this system at present.
 - There may be a passage problem at the culvert under the D-2000 line.
 - In the summer of 1994, Chris Byrnes - Area Habitat Biologist, electro-fished part of the channel and did not catch any fish
 - On 1/8 - 1/9/97 three minnow traps were set and fished; no fish were caught.
 - On 2/11 - 2/12/97 five minnow traps were set and fished; no fish were caught.

Other species access and use: () Chum () Pink () Sockeye () Chinook () Trout

- Since there were no other species caught in the above efforts, it is assumed no other species are using this channel

Habitat Improvements:

Enhancement opportunities:

- Remove reed canary grass at confluence of this channel and another small wetland channel located downstream.
- Fence in the reach of stream that is lacking it, and replant disturbed vegetation.
- No equipment access.

Additional Comments:

- This system has two known culverts and a possible third. The first culvert is under the access road in the pasture. It is 1.5 X 20 ft. CMP and appears it will pass fish. The second is under the access road to the Luken residence and joins an impoundment. It is submerged during high water but will trap fish. The water can drop quickly during dry spells and may not have enough flow to draw them out. The possible third one is in the upper end of the system where an abandoned grade crosses the impounded marsh.

Attachments Available:

Contact respective SSHEAR habitat biologist for the following checked items:

- | | | | |
|----------------------|----------------------|-----------------------|--------------------|
| () Aerials | (X) Sketch | (X) Maps | (X) Culvert Report |
| () Other references | () Spawning surveys | (X) Juvenile trapping | () Fishway Report |

DATE: 2/12/97

OBSERVER: Darrow, Nettin

MINNOW TRAPPING REPORT

TRAP	DATE SET	TEMP	DATE PULLED	TEMP	CATCH				
					COHO		RBT	CUTT	COTTID
					UMRK	MRK			
1	1/8	6.5°C	1/9	6.0°C	0	0	0	0	0
2	1/8	6.5°C	1/9	6.0°C	0	0	0	0	0
3	1/8	6.5°C	1/9	6.0°C	0	0	0	0	0
4	2/11	4.5°C	2/12	4.0°C	0	0	0	0	0
5	2/11	4.5°C	2/12	4.0°C	0	0	0	0	0
6	2/11	4.5°C	2/12	4.0°C	0	0	0	0	0
7	2/11	4.5°C	2/12	4.0°C	0	0	0	0	0
8	2/11	4.5°C	2/12	4.0°C	0	0	0	0	0
TOTALS:					0	0	0	0	0

COMMENTS:

- Six Northwest Salamanders were also captured.
- Trap 1 was placed about 160 m from the confluence.
- Trap 2 was placed about 250 m below the lower culvert.
- Trap 3 was placed about 200 m below the lower culvert.
- Trap 4 was placed about 170 m below the lower culvert.
- Trap 5 was placed about 70 m below the lower culvert.
- Trap 6 was placed about 40 m above the lower culvert.
- Trap 7 was placed about 10 m below the upper culvert.
- Trap 8 was placed about 10 m above the upper culvert.

WDFW FISH PASSAGE REPORTING FORM

LEVEL I - Facility/Barrier Identification

(1) CHECK ONE: Existing Fishway (includes baffled culverts)
 Man-made Fish Passage Problem

(2) STREAM: Luken Marsh

(3) WRIA#/RM: 20.0304 H (P) / 0.3

(4) TRIBUTARY TO: E.F. Gunderson (20.0304)

(5) LEGAL(S,T,R): sec 20 T29N R13W

(6) LATITUDE/LONGITUDE:

(7) MILEPOST/ROAD:

- Starting at Forks drive north on highway 101 to Luken Rd. (MP 196.2 access to Forest Service headquarters). Turn onto Luken Rd. and proceed about 0.1 mi. to the top of the hill. There are two driveways, one to the left and one to the right, go straight and park at the cable gate. Proceed down the road through the timber and into a pasture. Part way through the pasture one will cross a culvert (about 0.2 mi. from the gate.). This is Luken Marsh (S-304L-03).

(8) DESCRIPTION OF FISHWAY, FACILITY:

(9) DESCRIPTION OF BARRIER:

- The pipe is submerged on high water, but then the water level drops quickly and will trap fish.

(10) OWNER: Joel Dahlgren

(11) FISH ACCESS UP TO BARRIER VERIFIED/PRIMARY SPECIES:

- No fish have been observed in the channel (See minnow trap report).

(12) HABITAT AVAILABLE ABOVE FISHWAY OR BARRIER:

- There is about a one acre pond above the culvert.

(13) IDENTIFIED BY (agency/organization): WDFW - SSHEAR

(14) SUBMITTED BY/DATE OBSERVED: Nettnin / 5/27/97

(15) INVENTORY DESCRIPTOR: S-304L-03

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LEVEL II - Culvert/Barrier Description

CULVERT:

(16) TYPE (Indicate number of each): concrete round
 concrete box
(17) LENGTH: 20 ft smooth steel pipe
 CMP - Round
(18) DIAMETER: 36 in CMP - Arch or Ellipse
 Other:

(19) WATER DEPTH: Submerged / dry

(20) SLOPE: 0.6 ft

(21) VELOCITY:

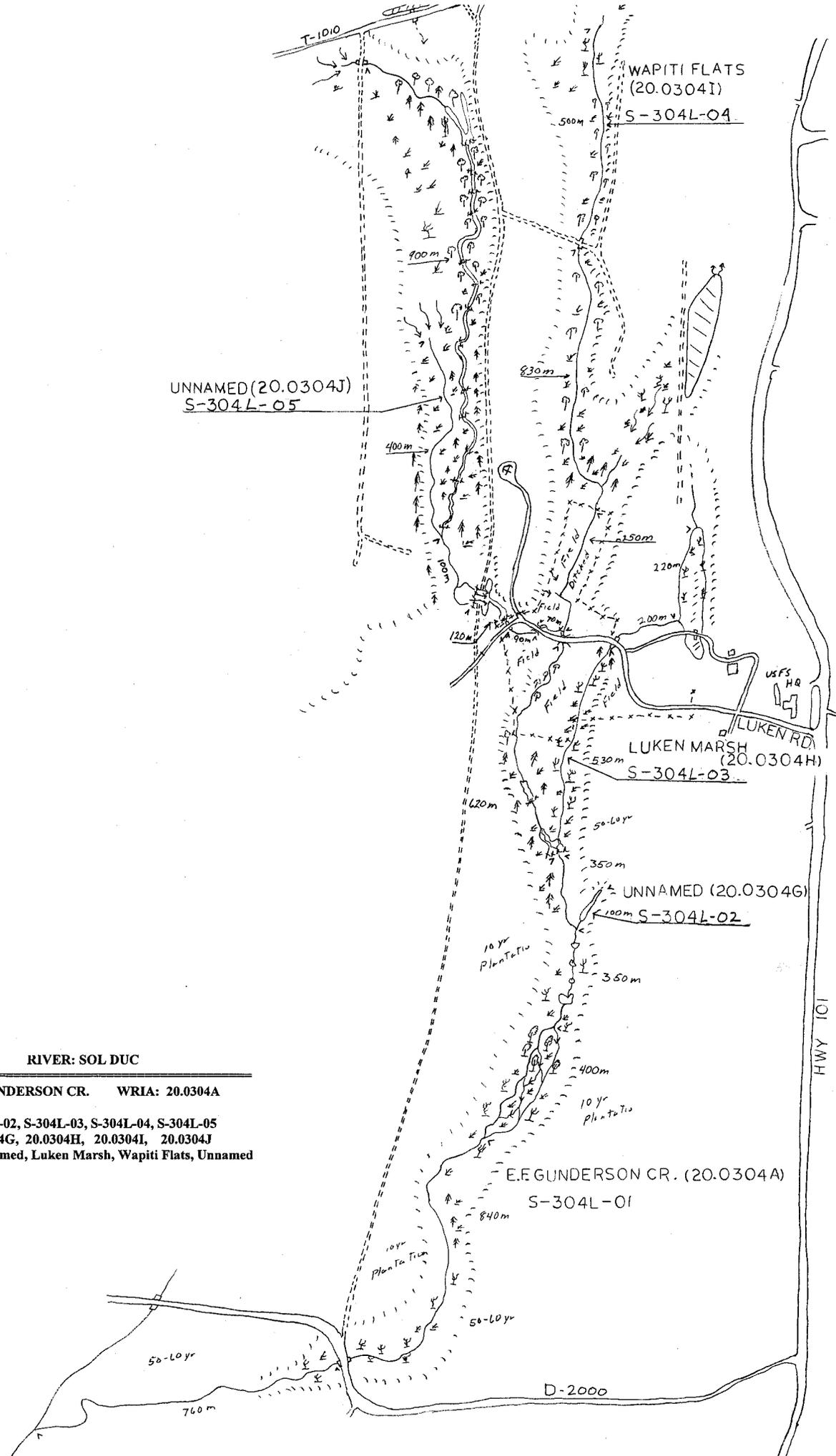
(22) OUTFALL DROP:

DAM:

(23) LENGTH:

(24) HEIGHT:

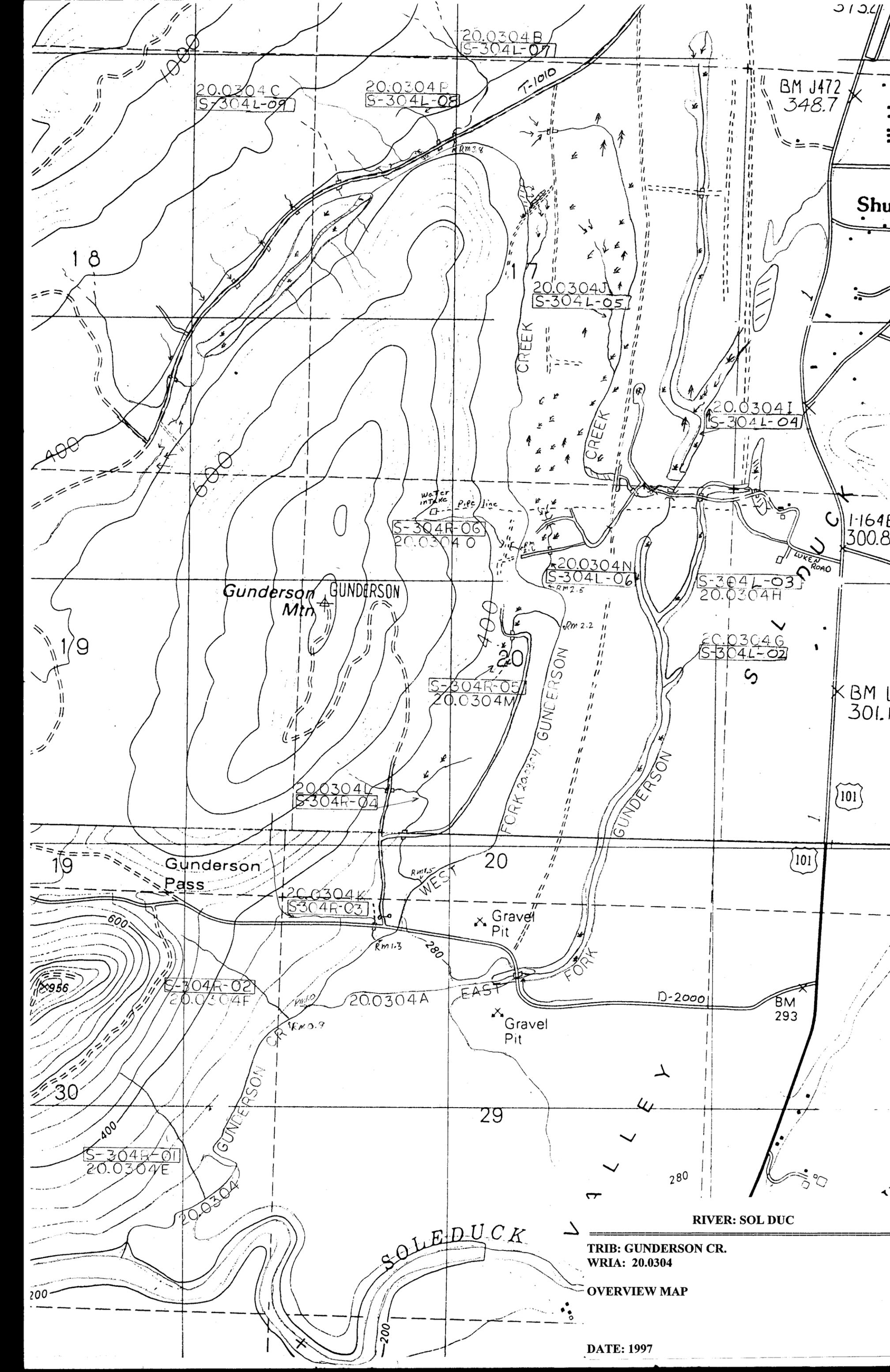
COMMENTS: Pipe is also rotten.



RIVER: SOL DUC

TRIB: E.F.GUNDERSON CR. WRIA: 20.0304A
 AREA: S-304L
 SITES: S-304L-02, S-304L-03, S-304L-04, S-304L-05
 WRIA: 20.0304G, 20.0304H, 20.0304I, 20.0304J
 NAMES: Unnamed, Luken Marsh, Wapiti Flats, Unnamed

DATE: 1/97



20.0304B
S-304L-07

20.0304C
S-304L-09

20.0304P
S-304L-08

BM J472
348.7

T-1010

20.0304J
S-304L-05

20.0304I
S-304L-04

Water Intake
Pipe line
S-304R-06
20.0304O

20.0304N
S-304L-06
RM 2.5

S-304L-03
20.0304H

20.0304G
S-304L-02

S-304R-05
20.0304M

20.0304L
S-304R-04

Gunderson
Pass

20.0304K
S-304R-03

S-304R-02
20.0304F

20.0304A

S-304R-01
20.0304E

SOLE DUCK

RIVER: SOL DUC

TRIB: GUNDERSON CR.
WRIA: 20.0304

OVERVIEW MAP

DATE: 1997

RIVER: SOL DUC RIVER

AREA: S-R2

AREA MAP

9/96

FORKS QUADRANGLE

WASHINGTON
7.5 MINUTE SERIES (TOPOGRAPHIC)

NW/4 FORKS 54 MI
BEAVER PO 4.7 MI
1:130 000 FEET
124°22'30"
48°00'

