

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 River	Date: 2/7/97
Site Identifier: S-304L-06	WRIA: 20.0304N (P)
River Mile Location: 2.5 mi	RB/LB: LB
Local Name: Waterworks Marsh	Trib. to: 20.0304
Legal Description: NE¼ Sec20 T29N R13W	County: Clallam
Habitat Type: Terrace tributary	
Landowner: <input type="checkbox"/> Federal <input type="checkbox"/> State <input type="checkbox"/> County <input type="checkbox"/> Other Government <input checked="" type="checkbox"/> Private - Joel Dahlgren - Rayonier Timber Co.	

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 (Dahlgrens property). 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). Continue on to the bridge (60 - 80 m), immediately above the bridge is the confluence of Wapiti Flats channel (S-304L-04) and E.F. Gunderson (S-304L-01). Continue on crossing a second bridge, bear left at the road junction, cross culvert/bridge, through a fence, through a burrow pit, bear right at the next road junction and continue to a bridge crossing a small wetland. This is Waterworks Marsh (S-304L-06).

Site Overview:

This is a first order stream. It drains approximately 40 acres of wetland and plantation that are associated with Gunderson Creek.

Habitat Information:

Water source:

- Springs and surface runoff

Intermittent/year-around:

- Unknown, probably intermittent

Estimated flows (cfs): Lower end- .02 - .05 Upper end- .02 - .05

Water temperatures: 4.0°C

Adjacent stream temperature, W. F. Gunderson Creek (20.0304): 5.0°C

Other water observations: Water is clear

Site area measurements: Indirect Direct Combination
Width: Channel- 0.7 - 1.2 m
Depth: Channel- 10 - 20 cm
Total length surveyed: 300 m

Total existing habitat area (est.): 300 m²
Spawning area: 00 m²
Impounded area: 00 m²
Other rearing area: 300 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:

- This channel is low gradient, low flow so it acts much like impounded water. Cover is primarily provided by sedges and other aquatic plants, but it does have some woody debris.

Unaccessible habitat:

- None.

Wetland information: Bog Marsh Scrub-shrub Wetland Forested Wetland

- There are approximately 20 - 30 acres of open marsh.
- Slough sedge is the dominant plant.

Flooding potential: Low Medium High

- May get some back water from W.F. Gunderson Creek.

Fish Information:

Site entry condition to the Gunderson Creek: Poor Fair Good

Coho access and use: Juvenile- Unknown None Poor Fair Good

Adult- Unknown None Poor Fair Good

- On 2/11 - 2/12 three minnow traps set in the upper reach. There were 16 coho captured.

Other species access and use: Chum Pink Sockeye Res. trout Trout

- Trout were not observed but there is not physical reason why they could not use this channel.

Habitat Improvements:

Enhancement opportunities:

- Remove culvert on spur that bridge was removed.
- install plank controls to create beaded channel.
- Protect the integrity of the stream.

Additional Comments:

Attachments Available:

Contact respective SSHEAR habitat biologist for the following checked items:

<input checked="" type="checkbox"/> Aerials	<input checked="" type="checkbox"/> Sketch	<input checked="" type="checkbox"/> Maps	<input checked="" type="checkbox"/> Culvert Report
<input type="checkbox"/> Other references	<input type="checkbox"/> Spawning surveys	<input checked="" type="checkbox"/> Juvenile trapping	<input type="checkbox"/> Fishway Report

NORTH COAST OFF CHANNEL SURVEY
SUBSEQUENT SITE EVALUATION

River System: Sol Duc

Site No.: S-304L-06

WRIA: 20.0304 M

Site Name: Waterworks Marsh

DATE: 2-11-97

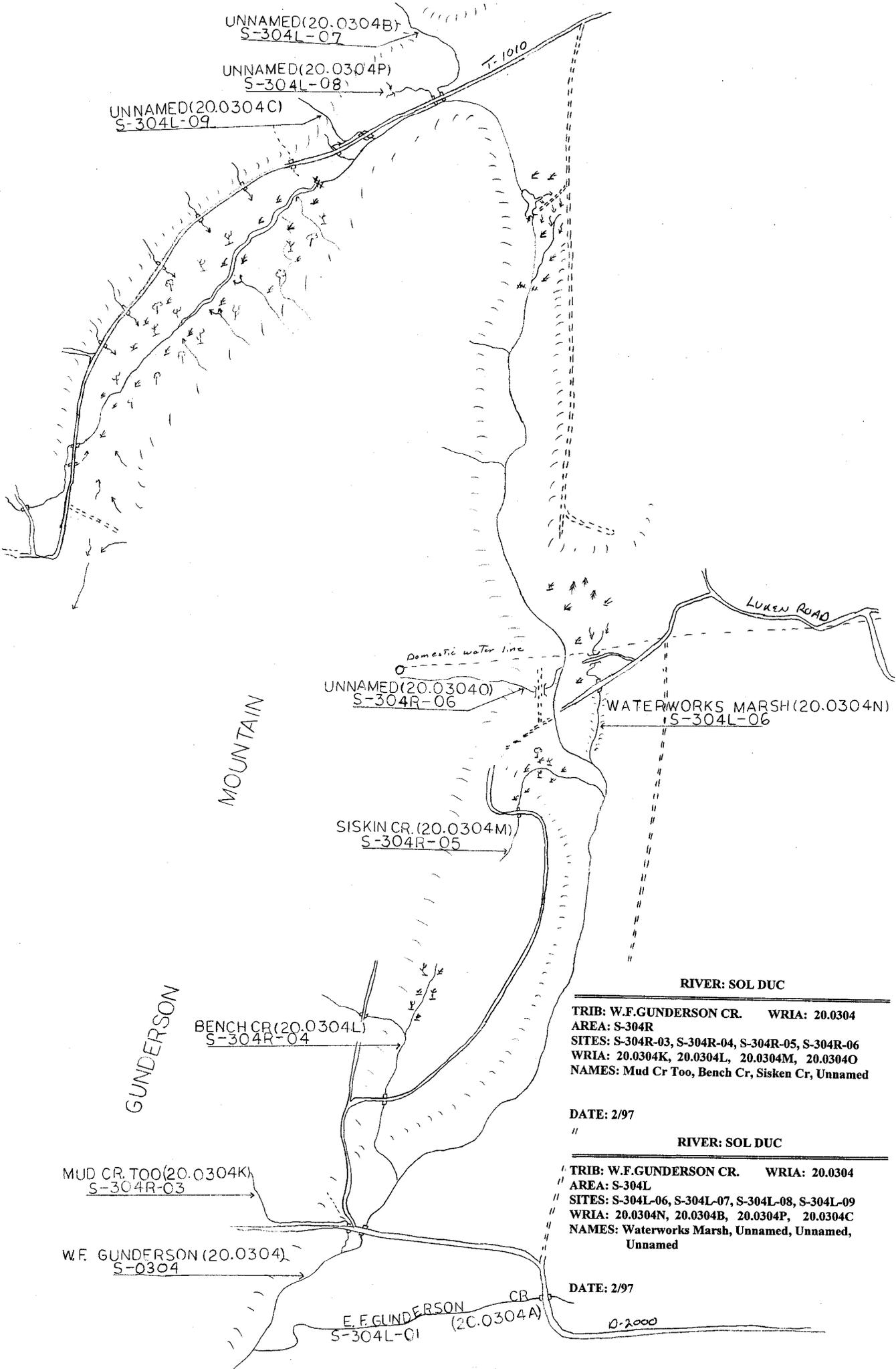
OBSERVER: Darrow, Nettnin

MINNOW TRAPPING REPORT

TRAP	DATE		DATE		CATCH				
	SET	TEMP	PULLED	TEMP	COHO MRK	UMRK	RBT	CUTT	COTTID
1	2/11	4°C	2/12	5°C	0	2	0	0	0
2	2/11	4°C	2/12	5°C	0	4	0	0	0
3	2/11	4°C	2/12	5°C	0	10	0	0	0
TOTALS:					0	16	0	0	0

COMMENTS:

- Trap 1 was placed ~15 m above the bridge.
- Trap 2 was placed ~10 m below the bridge.
- Trap 3 was placed ~50 m below the bridge.



RIVER: SOL DUC

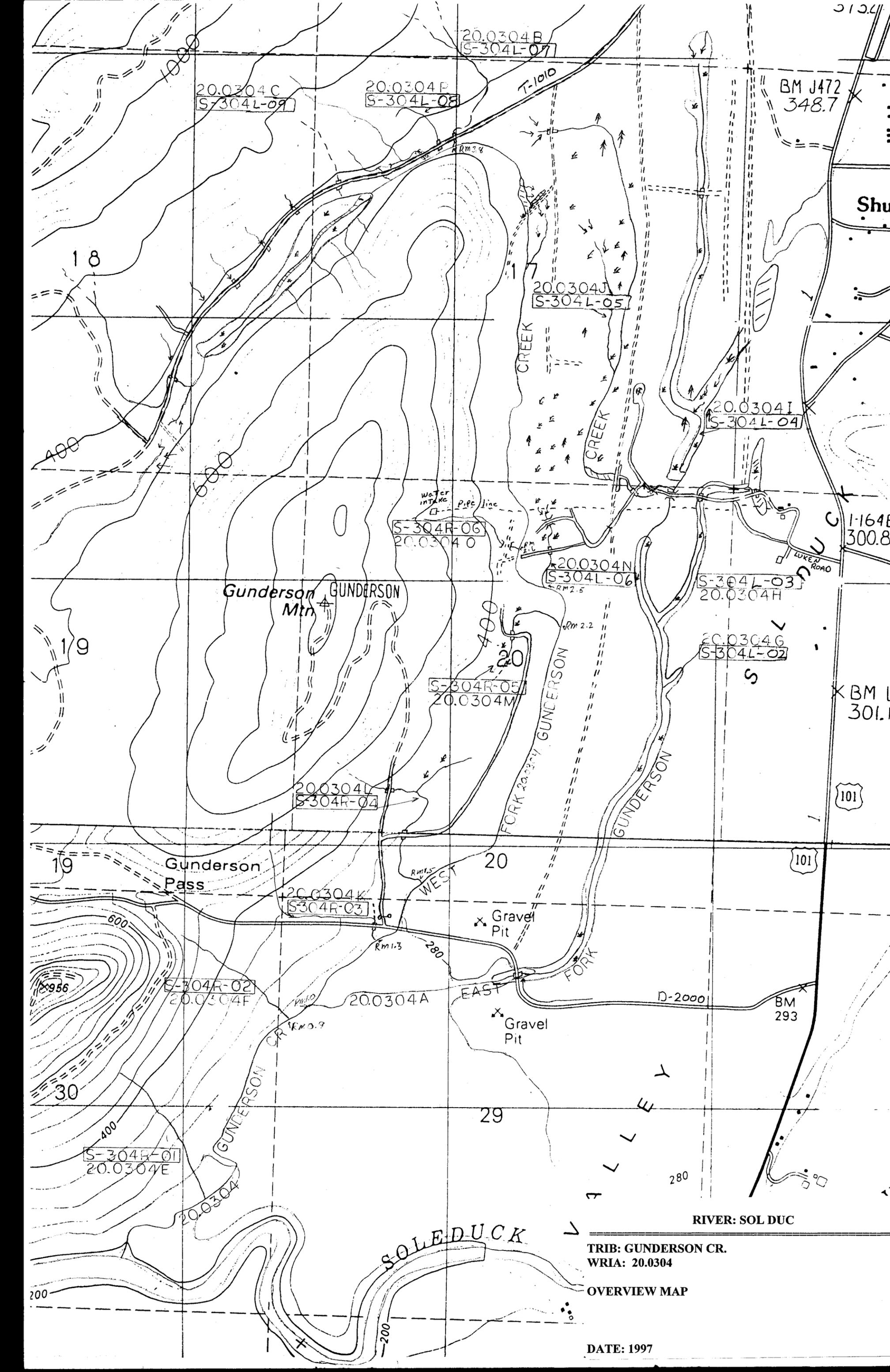
TRIB: W.F.GUNDERSON CR. WRIA: 20.0304
 AREA: S-304R
 SITES: S-304R-03, S-304R-04, S-304R-05, S-304R-06
 WRIA: 20.0304K, 20.0304L, 20.0304M, 20.0304O
 NAMES: Mud Cr Too, Bench Cr, Siskin Cr, Unnamed

DATE: 2/97

RIVER: SOL DUC

TRIB: W.F.GUNDERSON CR. WRIA: 20.0304
 AREA: S-304L
 SITES: S-304L-06, S-304L-07, S-304L-08, S-304L-09
 WRIA: 20.0304N, 20.0304B, 20.0304P, 20.0304C
 NAMES: Waterworks Marsh, Unnamed, Unnamed, Unnamed

DATE: 2/97



20.0304B
S-304L-07

20.0304C
S-304L-09

20.0304P
S-304L-08

BM J472
348.7

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

20.0304K
S-304R-03

S-304R-02
20.0304F

S-304R-01
20.0304E

20.0304A

BM 293

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 1/4 FORKS 54 MI
BEAVER PO 4.7 MI

124°22'30"
48°00'

1130 000 FEET

1480 III

R 14 W (LAKE PLEASANT 1:62 500) R 13 W

391 27'30"

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