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): Powell

River System: Sol Duc

Date: 1/23/97

Site Identifier: S-R7-01

WRIA: 20.0336 C (P)

River Mile Location: 41.6

RB/LB: RB

Local Name: Pit Creek

Trib. to: Sol Duc (20.0096)

Legal Description: NE¼ Sec 31 T30N R11W

County: Clallam

Habitat Type: Terrace tributary

Landowner: () Federal (X) State () County () Other Government (X) Private
- Washington State Dept of Natural Resources
- Unknown private parties

Directions to site:
Starting at Forks (Tillicum Park) drive north on Highway 101 for 18.35 miles. On the left side of the road there is a paved road (gated) and a small, old house; the rocky hillside has been recently logged. S-R7-01 crosses the highway at this point.

Site Overview:
This channel originates from high gradient tributaries flowing into a upper terrace wetland. Water cascades down from the upper terrace into a lower gradient channel that eventually flows into an area with beaver ponds that result in a moderate/large premium, over wintering area. Additional water flows into the pond and adjacent scrub-shrub wetland from both banks. Below the ponded water, the channel is wide and slough like. The lower/mid reach appears to offer optimum habitat for juvenile coho.

Habitat Information:

Water source: Springs, tributaries, surface runoff

Intermittent/year-around:
- Probably year-around

Estimated flows (cfs): 1.5 - 2

Water temperatures: 6.0° C

Adjacent stream temperature: 4.0° C (20.0096)

Other water observations: Water was silted due to pit operation near upper terrace wetland.

Site area measurements: () Indirect () Direct (X) Combination

Widths:	Channel- 1 m - 2.5 m	Ponds- 6+ m	Wetlands- 20 m - 30+ m
Depths:	Channel- 7 cm - 20 cm	Ponds-limited visibility	Wetlands-limited visibility

Total length (includes ponds and wetlands): 1300 m

Total existing habitat area (est.): 3600 m²
Spawning area: 0
Impounded area: 750 m²
Other rearing area: 2850 m²

Spawning Habitat conditions: (X) None () Poor () Fair () Good () Excellent

Describe spawning habitat:
- The lower reach of the channel has a mud substrate.
- The upper reach has more rock than gravel.

Rearing habitat conditions: () None () Poor () Fair () Good (X) Excellent

Describe pond and other rearing habitat:
- The lower reach of the channel is wide a slough like.
- There are several passable beaver dams which form a combined mod/large ponded area.
- Pond and slough have lots of LOD and would offer good winter rearing.
- There are numerous old snags in pond/wetland area.
- The channel has lots of brush, a mix canopy of mostly mature conifer with some alder.
- Upstream of wetland, there is an alluvial area where stream does not have a defined channel.
- Above the alluvial, the channel is somewhat incised and there is a ~ 2 m drop in the channel.
- The channel offers limited habitat above the drop to the cascades.

Describe unaccessible habitat:
- Upper reach may be unaccessible due to 2 m drop in the channel.

Describe wetland: () Bog () Marsh (X) Scrub-shrub Wetland (X) Forested Wetland
- Wide and had variable depths.
- It is assumed that fish would utilize the deeper channels in the wetland.
- Wetland has numerous large snags, salal, brush, water parsley, skunk cabbage, sedges, and rushes.

Flooding potential: () Low (X) Medium () High
- Over bank flows from the river may affect pond/wetland area during very high events due to gradient and rivers proximity.

Fish Information:

Site entry condition to (Sol Duc River 20.0096): () Poor (X) Fair () Good
- The channel egresses into a bend in the river that has small eddies both upstream and downstream.
- River has a swift flow ~ 5 m from channel egress.

Coho access and use:
Juvenile- (X) Unknown () None () Poor () Fair () Good
Adult- (X) Unknown () None () Poor () Fair () Good
- It is assumed the juvenile coho utilize this system.

Other species access and use: () Chum () Pink () Sockeye () Chinook () Trout
- It is assumed that trout utilize this system.

Habitat Improvements:

Enhancement opportunities:
- Modify alluvial area so fish do not get trapped.
- Modify the 2 m drop (limited habitat above this point).

Additional Comments:

- Siltation problems from the pit operation have been a concern; DOE has been contacted.Presently, pit operations have been minimal and water has not been impacted. This system should continue to be monitored (easy to see from HWY 101) during rainy periods.

Attachments Available:

Contact respective SSHEAR habitat biologist for the following checked items:

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

NORTH COAST OFF CHANNEL SURVEY
SUBSEQUENT SITE EVALUATION FORM

River System: Sol Duc

Site No.: S-R7-01
Site Name: Pit Creek
WRIA: 20.0336C (P)

DATE: 8-28-97 **OBSERVER:** Powell

It has been dry for ~6 week then we recieved ~2 inches of rain; this channel was flowing about 0.75 - 1.0 cfs at the highway crossing.

DATE: 2-3-98 **OBSERVER:** Powell

MINNOW TRAPPING REPORT

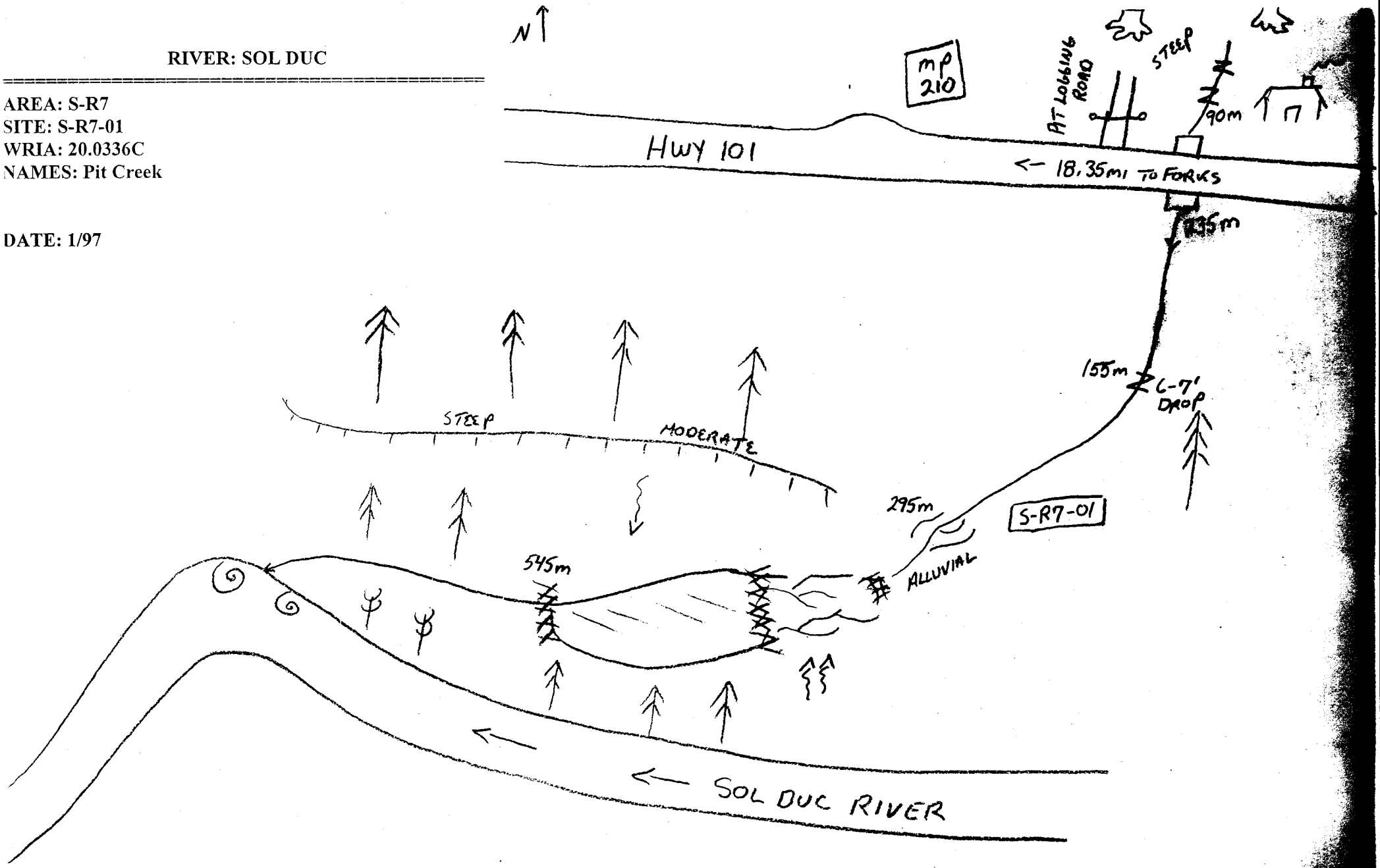
TRAP	DATE SET	TEMP	DATE PULLED	TEMP	CATCH COHO	TROUT RBT	TROUT CUTT	TROUT 0+	COTTID
1	2/2		2/3		0	0	2	0	2
2	2/2		2/3		0	0	1	0	3
3	2/2		2/3		0	0	2	0	2
4	2/2		2/3		3	0	3	0	0
5	2/2		2/3		23	0	3	0	5
			TOTALS:		29	0	11	0	12

COMMENTS:
-Trap 1 was placed ~25 feet downstream of the Highway 101 culvert.
-Trap 2 was placed ~30 feet downstream of trap 1.
-Trap 3 was placed half way between culvert (~380 feet downstream) and 6 foot fall.
-Trap 4 was placed on the right bank, head end of wetland - just below alluvial area.
-Trap 5 was placed on the left bank, head end of wetland - just below alluvial area.

RIVER: SOL DUC

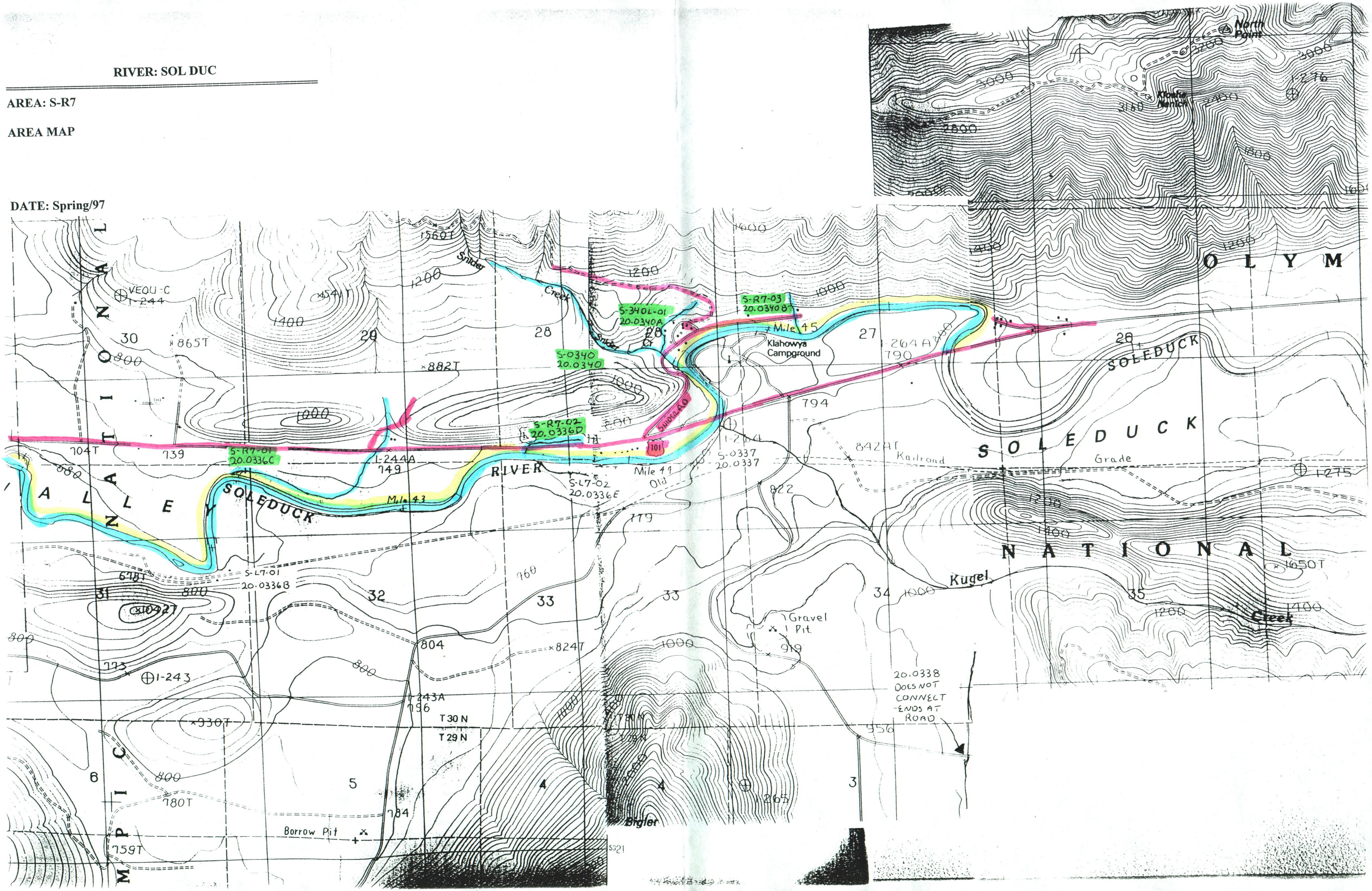
AREA: S-R7
SITE: S-R7-01
WRIA: 20.0336C
NAMES: Pit Creek

DATE: 1/97



RIVER: SOL DUC

AREA: S-R7

AREA MAP

DATE: Spring/97