

**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: 4/22/99 |
| Site Identifier: S-329R-10 | WRIA: 20.0334J (P) |
| River Mile Location: 8.29 | RB/LB: RB |
| Local Name: Unnamed | Trib. to: Bear Cr (20.0329) |
| Legal Description: SE¼ Sec9 T30N R11W | County: Clallam |
| Habitat Type: Valley wall tributary | |
| Landowner: (X) Federal () State () County () Other Government () Private - National Forest | |

Directions to site:

Starting at Forks (Tillicum Park), drive north on Highway 101 for 16.3 miles (mp 208) to West Twin Road (FS 30 Road). Take a left on this road and follow for 5.35 miles. This culvert crossing is S-329R-10.

Site Overview:

This channel has varied characteristics throughout the reaches. The lower reach is semi-incised with several debris drops that would hinder juvenile coho movement during low flows. Flushing flows associated with this system would limit coho juvenile usage during the winter months. The mid reach is brushy due to land clearing under power lines. This area is marked by side slope slumping. Upstream, the channel becomes incised and increases in gradient; bedrock and boulders are prominent. Side slope slumping has resulted in gravel and woody debris accumulations in the upper reach. The physical characteristics of this stream are more conducive to resident trout.

Habitat Information:

Water source: Tributaries and surface runoff

Intermittent/year-around:

- Probably intermittent

Estimated flows (cfs): 1

Water temperatures: did not take

Adjacent stream temperature: 7° C (20.0329)

Other water observations:

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

Widths: Channel- 1.2 m - 3 m Ponds- NA Wetlands- NA

Depths: Channel- 7 cm - 20 cm Ponds- NA Wetlands- NA

Total length (includes ponds and wetlands): 755 m

Total existing habitat area (est.): 1300 m²

Spawning area: 300 m²

Impounded area: 0

Other rearing area: 1000 m²

Spawning Habitat conditions: None Poor Fair Good Excellent

Describe spawning habitat:

- Overall, the spawning habitat is more conducive to resident trout.
- The channel has gravel but in pockets.
- The lower channel is a mixture of cobble/gravel/fines. The upper channel has areas of bedrock and boulder.

Rearing habitat conditions: None Poor Fair Good Excellent

Describe pond and other rearing habitat:

- The lower reach has some drops (up to 0.75 meters) due to LWD.
- The lower channel is semi-incised with an overstory of alder and conifer. There is cover of brush, overhang and some LWD.
- This channel experiences flushing flows.
- The mid channel is brush due to clearing under the powerlines. This area also shows evidence of side slope slumping into the channel. There is a culvert laying in the channel, under the powerlines, but no road is associated with it. It is not a barrier at this time.
- The mid upper reach has a prominent bedrock substrate.
- The upper channel has a steady gradient gain as it becomes incised.
- The upper channel has brush as cover and an overstory of mature alder. Conifer grows along the steep slopes. Banks of slopes are unstable and slumping in some areas.
- There are areas of woody debris accumulations through out this channel. All are passable during high flows.
- This channel is more characteristically a cutthroat stream.

Describe unaccessible habitat:

- There is a perched culvert at the FS 30 road crossing.

Describe wetland: Bog Marsh Scrub-shrub Wetland Forested Wetland

Flooding potential: Low Medium High

- Flushing flows within the system.

Fish Information:

Site entry condition to (20.0329): Poor Fair Good

- Open egress into Bear Creek.
- There is a 0.75 meter debris drop sixty meters from the egress.

Coho access and use:

Juvenile- Unknown None Poor Fair Good

Adult- Unknown None Poor Fair Good

Other species access and use: Chum Pink Sockeye Chinook Trout

- Trout probably utilize this system.

Habitat Improvements:

Enhancement opportunities:

- There is a perched culvert at the FS 30 road crossing.

Additional Comments:

- There is a culvert laying in the stream, under the powerlines. Presently, there is no road associated with it. It is not a barrier but it blocks debris movement and may become a barrier in time.

Attachments Available:

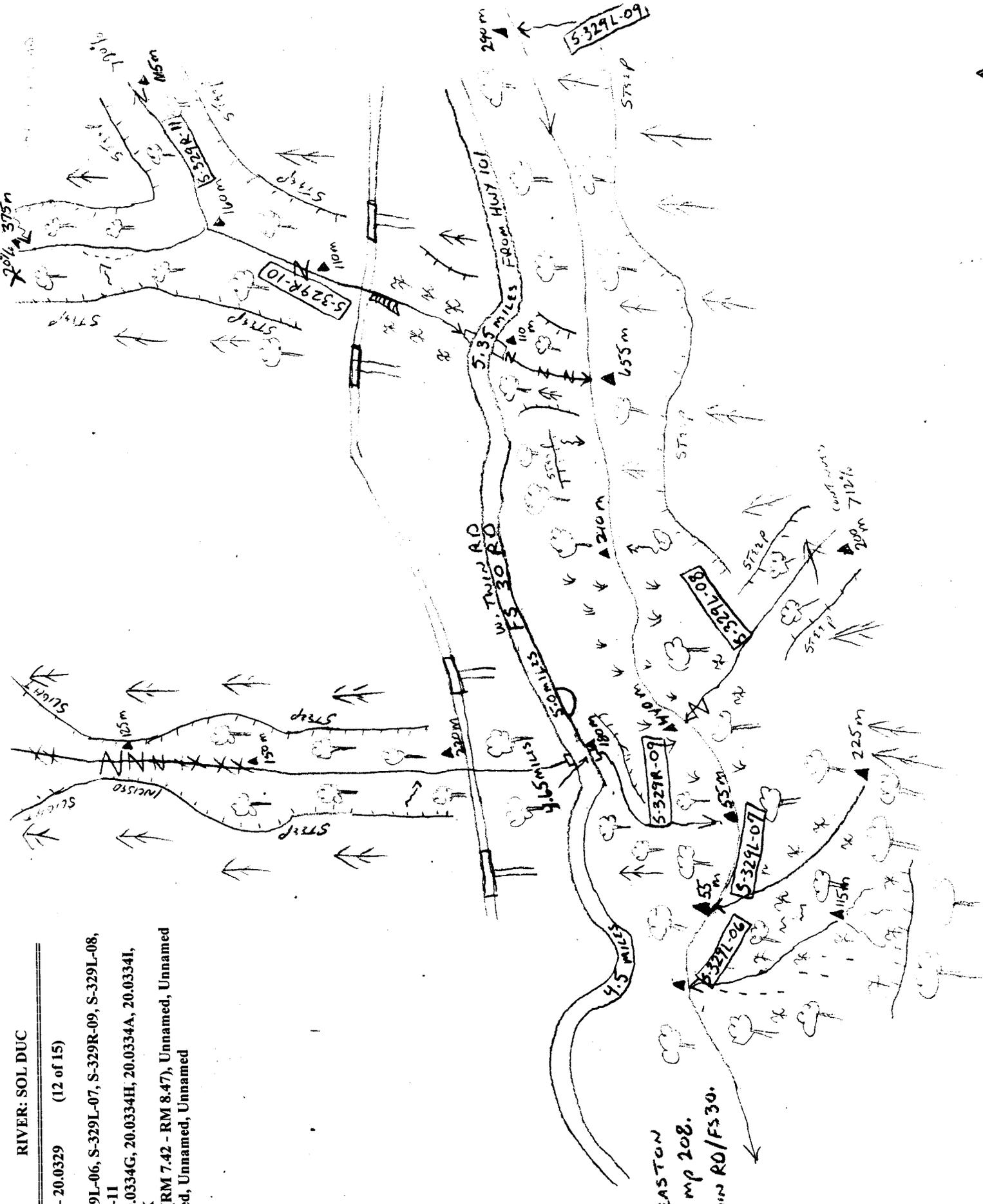
Contact respective SSHEAR habitat biologist for the following checked items:

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

RIVER: SOL DUC

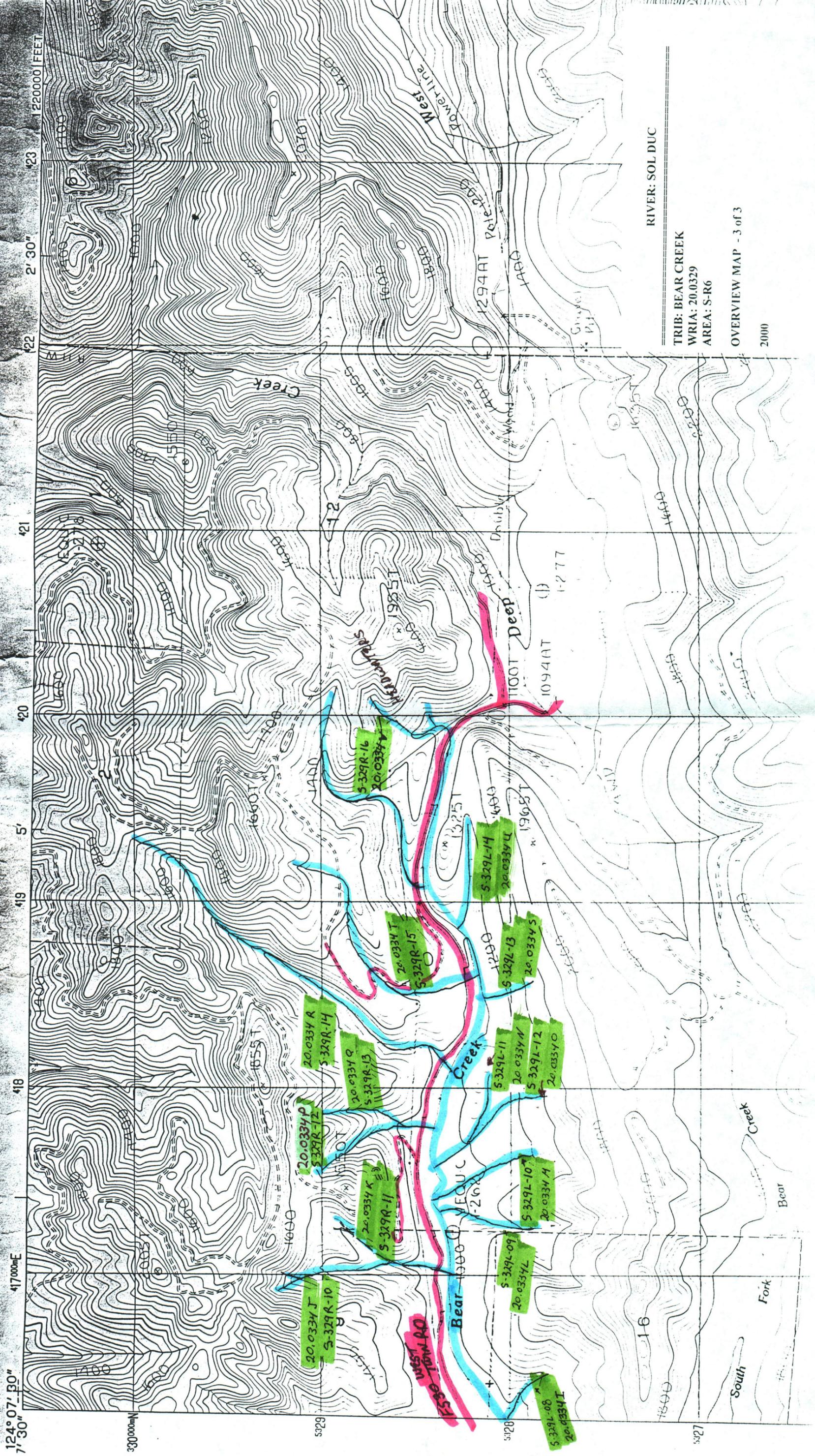
TRIB: Bear Creek - 20.0329 (12 of 15)
AREA: S-R6
SITE: S-0329, S-329L-06, S-329L-07, S-329R-09, S-329L-08,
S-329R-10, S-329R-11
WRIA: 20.0329, 20.0334G, 20.0334H, 20.0334A, 20.0334I,
20.0334J, 20.0334K
NAMES: Bear Cr (RM 7.42 - RM 8.47), Unnamed, Unnamed,
Unnamed, Unnamed, Unnamed, Unnamed

DATE: 4/99



16.3 miles EASTON
Hwy 101 To mp 208.
LFT ON W. TWIN RD/FS30.

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY



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