

SITE INFORMATION

Site Identifier : CA2RB1 **Landowner Type :** Private
Site Name : Cascade Park **Landowner Name :** Cascade Park
WRIA : 03.1411X **Address :**
Region : NS **Address2 :**
Trib to : Cascade R **City :**
River Mile : 4.15 **State :**
River System : Cascade R **Zipcode :**
Legal Description : SE1/4S15T35NR11E **Phone :**
County : Skagit
Habitat Type :

Directions :

From the Marblemount bridge, head up the Cascade River Road 4.75 miles to Cascade Park on the right. Go through the gate, stay right at the fork and take the first right just before the bridge. Follow this road for 0.2 miles to the site.

Area Overview :

This tributary is primarily fed by wall based seepage and is also a project site for the WDFW. In 1991 passage was provided to the small pond in this system and in 1993, wooden weirs were installed below the first culvert to protect against erosion. It gets good adult and juvenile coho use.

Field Survey Information

Date : 10/20/1997 **Observer :** Olis **Survey Type :** initial

HABITAT INFORMATION

Water Source: (X) Spring () Groundwater (X) Surface runoff

Flow: () Intermittent(X) Year-round

Estimated Flows (cfs): Lower end: 0.4
Upper end: 0

Water Temperature(C): Lower end: 8.3
Upper end: 10

Receiving Water Temperature (C): 5.8

Other Observations:

Site Area Measurements: () Indirect (X) Direct () Combination
 Widths: Channel: 2m Ponds: 15m Wetlands:
 Depths: Channel: 18cm Ponds: 2m Wetlands:
 Total length (includes ponds and wetlands): 688m

Total existing habitat area (est. m2): 2629

Spawning area:	Mainstem: 36	Tribs:	Total:	
Impounded area:	Mainstem: 1026	Tribs:	Total:	
Other rearing area:	Mainstem: 806	Tribs:	Total:	
Unaccessible habitat:	Mainstem: 761	Tribs:	Total:	

Spawning habitat conditions: None Poor Fair Good Excellent

Describe spawning habitat: Spawning gravel size ranges from 1/4" to 2"; there is excellent cover from woody debris and undercut banks; and there usually is plenty of depth and flow for spawners.

Rearing habitat conditions: None Poor Fair Good Excellent

Describe pond and other rearing habitat: The pond is roughly 50m long by 20m wide and is 2m deep in places. The substrate is silt/mud and is covered with leaves. At the head end of the pond, the substrate is covered with aquatic vegetation.

Describe unaccessible habitat: At 458m, there is a 1' crip with a 6" drop, no plunge pool and 3 to 5 % slope. The pipe intake is surrounded by wood. All of these factors make juvenile and adult passage almost impossible. Just above the pipe is a 30m long by 12m wide pool that has some canary grass and other vegetation along the edges. The pool shallows to about 4" deep at the head end and has a very mucky substrate. The habitat above the pool is slow-moving with pools, relatively shallow with silty/mud substrate and good amounts of water parsley present. There is good brushy cover along the banks.

Wetland type: Bog Marsh Scrub-shrub Forested

Describe:

Flooding potential: Low Medium High

Describe: The first 125m of the site is affected by major flood events. The habitat above is relatively protected by higher ground and the Cascade Park development.

FISH INFORMATION

Site entry condition: Poor Fair Good

Describe: There is a pool area near the entry that could provide a holding area for salmon.

Coho access and use: Juvenile Unknown None Poor Fair Good

Adult Unknown None Poor Fair Good

Describe: Site gets good adult and juvenile coho use. On day of survey, many coho juveniles were seen throughout the accessible areas of the site.

Other species access and use: Chum Pink Sockeye Chinook Trout

Describe: Trout were observed in site on day of survey.

ENHANCEMENT OPPORTUNITIES: The culvert barrier at 458m could be replaced to allow access to 761 square meters of good rearing habitat.

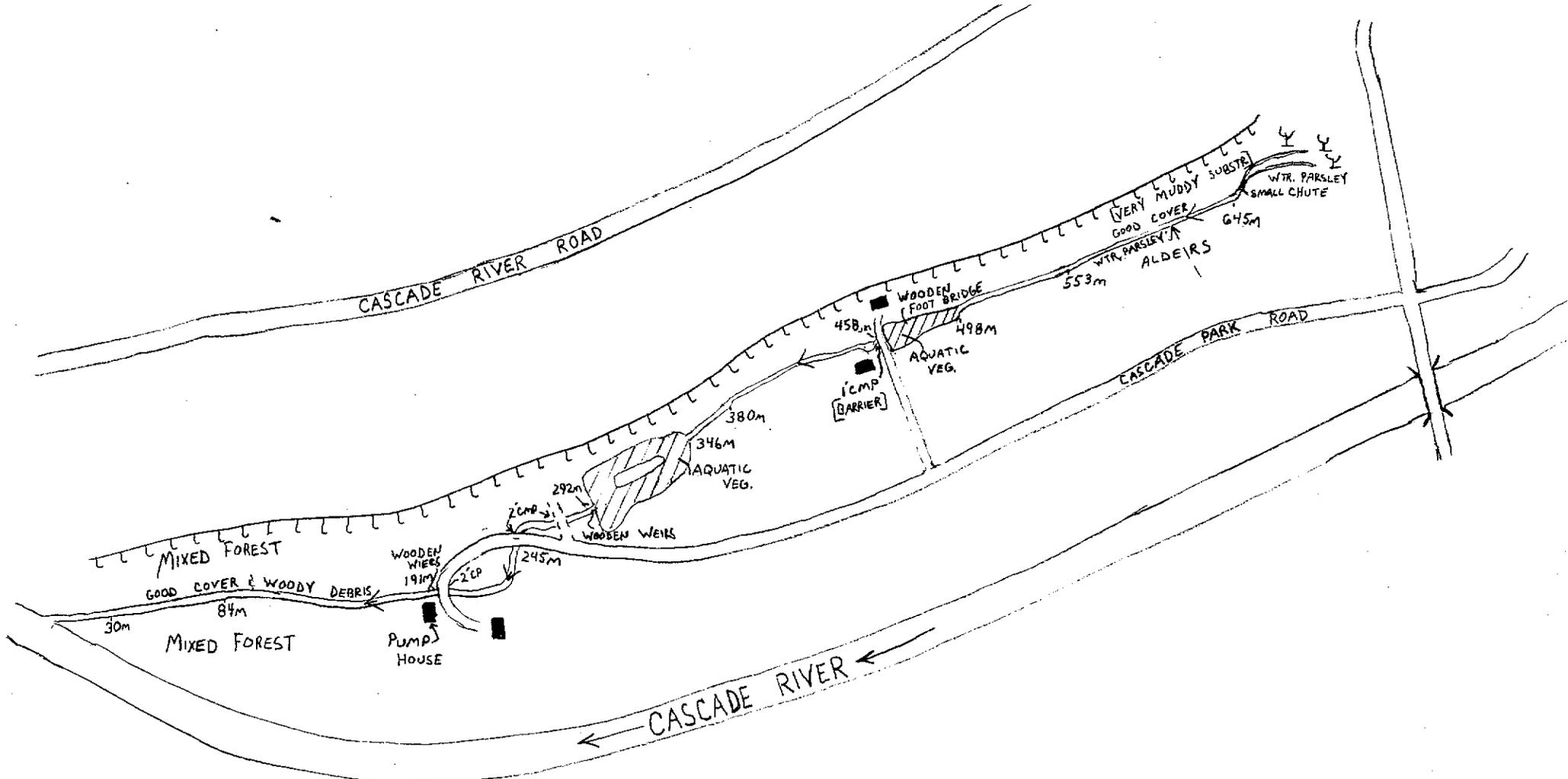
Project type: Culvert replacement

Equipment access: Driveable road to culvert.

ADDITIONAL COMMENTS: Juvenile trout was seen above culvert barrier which suggest that passage is somehow achieved. The water temperature at the head end of the site is almost 3C warmer than at the lower end which would be attractive to juvenile coho during the winter.

ATTACHMENTS AVAILABLE

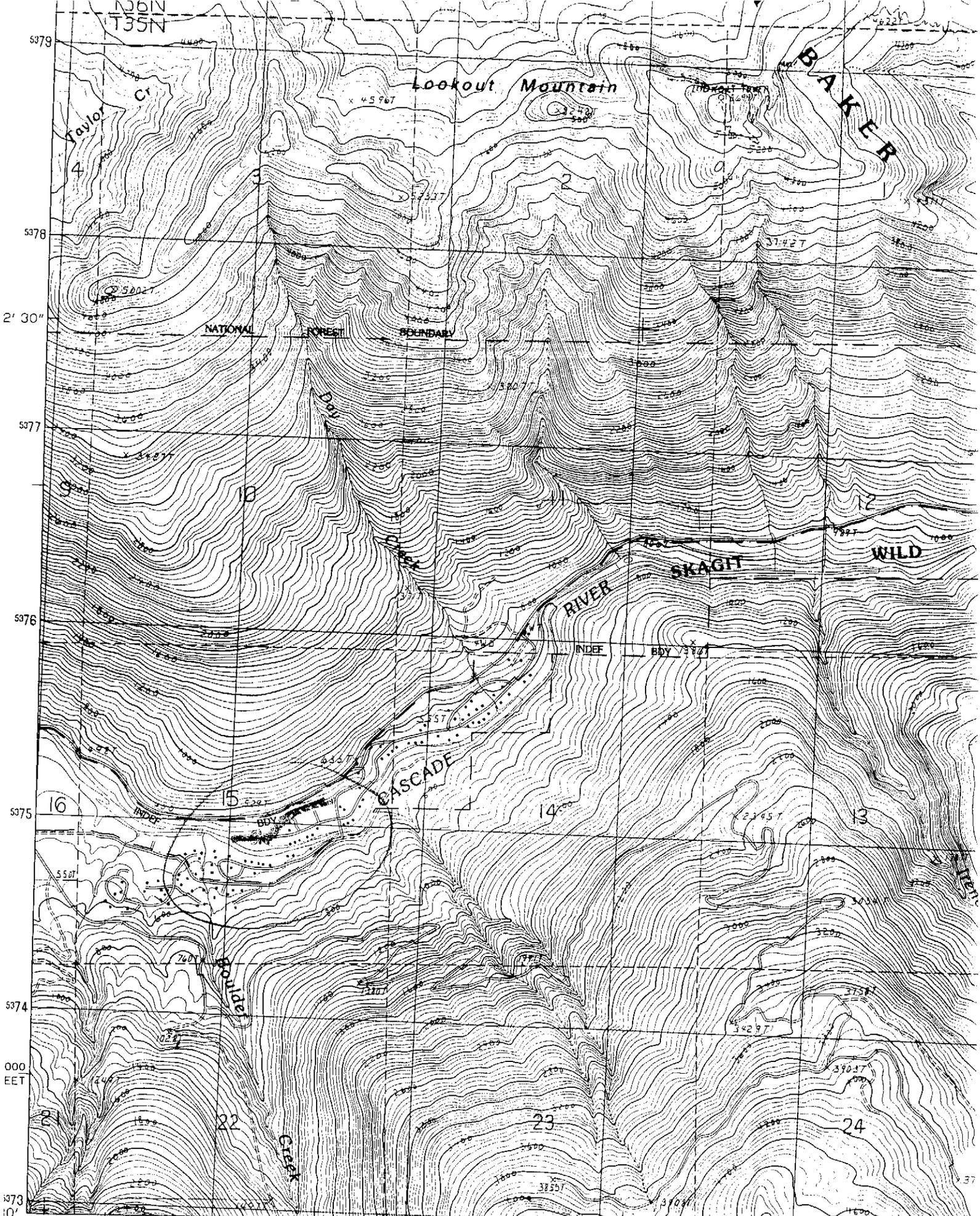
Aerials Sketch Maps Spawning Surveys Juvenile Trapping
 Other References



Site id. code: CAZ RB1
 Site name: CASCADE PARK
 Scale: 1" = 70M
 Observer(s): MICHAEL OLIS
 Legal location: NE 1/4 SW 1/4 S15 T35N R1E



N61N
T35N



2' 30"

5377

5376

5375

5374

5373

10'

11870 000 FEET 621

Cascade Park I

622

623 20'

624

37

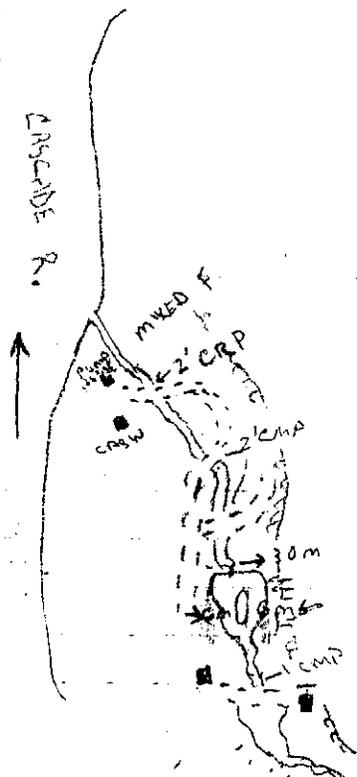
10/20/97

CASCADE PARK

CA2RB1

RM 4.15

NE 1/4 SW 1/4 SE 1/4 S15 T35N R1E



0.0 ENTRY.

REC. TEMP. - 42.5°
 STRM. TEMP. - 47°
 FLOW - .4 CFS
 ACCESS - GOOD

30m WW 2m RIFF

- SUBSTR. BOULDERY → COBBLE W/ SAND MIX.
- GOOD COVER

84m WW 2m

- 80/20 → A/R
- SANDY SUBSTR. (LEAVES)
- 6" - 8" DEEP POOLS CREATED BY LWD, LITTER

84m JUV. SALMON HISS
SEEK PROB. CAND.

191m WW 2.5m

- 75/25 → P/R
- ≈ 20m² SP. HAB.
MOSTLY .25" → 2" GR.
GOOD COVER
- OVERALL → GOOD DEPTH
- GOOD LWD RECRUIT.
- @ ROAD 2' CRP
- 2 LOG LEVELERS BELOW
w/ 2"-4" GR.
- JUV COHO'S
- OCCAS BOULDER

2

245m WW 2m.

- 60/40 P/R
- 8m² SP. HAB.
- @ 2' CMP
- OCCAS. BOULDER.

270m WW 2m

- SLOW MOV. 8" DEEP
- @ 2' CMP - OLD RD.

292m WW 2m

- MOSTLY RIFF
- 8m² SP. GR.
- @ BASE OF POND
& CONCR. WOOD POND
LEVEL CONTROL

313 m WW 30 m

- POND - MAN-MADE IMP.
- 2 m DEEP
- LEAVE BOTTOMED.

346 m WW - 12 m

- POND @ MOUTH OF WLET.
- SMALL ISLAND IN POND.
- SOME AQUATIC WEEDS PRESENT

380 m 1.5 m WW

- 1st 10 m is 3 m W.
- SILT-BOTTOMED
- LITTLE COVER
- SOME ATTEMPT TO LANDSCAPE CHAN. AREA.

450 m WW 1 m 50/50

- SAND/SILT SUBSTR.
- OKAY COVER

458 m WW 6 m POOL
CORN ON BOTH BANKS

- @ -1' CMP
- 6" DROP NO/PLUNGE POOL
- ~ 3° SLOPE
- GRAVEL IN SPILL OUT AREA BUT PROB. TOO SHALLOW TO SPAWN.
- PIPE 6m' LONG
- BARRIER
- INTAKE HAS WOOD AROUND IT.

475m WW 15 m

- POOL
- LEAVE BOTTOMED
W/CANADIAN GRASS AND
OTHER VEG.
- WOODEN FOOT BRIDGE
OVER CHANNEL

498m WW 10m

- SHALLOW
- MUD-BOTTOMED - DEEP
LAYER OF MUD.
- ALDER LINED BANKS

553m WW 2m

- SLOW MOVING, SHALLOW
- SAND/SILT SUBSTR.

WATER PARSLEY
PRESENT.

614m WW 1m ^{SLOW-MOV.}
^{W/ POOLS}

- EXCELLENT COVER
& WOODY DEBRIS
- SMALL INT. TRICKLE
ON LB.
- JUV. SALMONID SEEN
PROB. TROUT.

645m WW 1m

- 2 m² SM. SP. GR.

656m 1m

- BOULDERY
- SMALL CHUTE AREA
PROB. PASSABLE TO JUV.

688m NW 2m

- AREA OF BRAIDED CHANNELS, SHALLOW
- WATER SEEPS OUT OF GROUND - TEMP - 50°
- END OF WTR.
- SMALL WOODED WETLAND AREA,
- WTR. PARSLEY TO END

COMMENTS

- CULVERT @ 458m
PROB BARRIER TO JUV.
- NICE WARM WATER
WINTER REARIN ABOVE



- SEEMS TO BE GRND.
WATER FED.
- MAIN RD IN @
HEAD OF SYSTEM &
ALSO LOT H-SALE HERE