

**SITE INFORMATION**

**Site Identifier :** WN3RB1 **Landowner Type :** Private  
**Site Name :** **Landowner Name :**  
**WRIA :** 03.0259A **Address :**  
**Region :** NS **Address2 :**  
**Trib to :** 03.0259X **City :**  
**River Mile :** 0.10 **State :**  
**River System :** W. F. Nookachamps **Zipcode :**  
**Legal Description :** SW1/4S8T33NR5E **Phone :**  
**County :** Skagit  
**Habitat Type :** lower valley wall tributary

**Directions :**

From the I-5 and Hwy 534 intersection (Conway/Lake McMurray exit), turn right towards Lake McMurray and head 5 miles to a T-intersection and Hwy 9. Turn left (north) on Hwy 9 and go 4.3 miles to the Lake Cavanaugh road on the right. Turn right and go 0.6 miles to the culvert and the site.

**Area Overview :**

This is an intermittent stream that appears to be groundwater as well as surface fed. It may only flow for 4 to 5 months out of the year but a couple of adult coho were found spawning on the day of the survey and a six inch trout was observed also.

**Field Survey Information**

**Date :** 12/09/1998 **Observer :** Olis **Survey Type :** initial

**HABITAT INFORMATION**

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

**Flow:** () Intermittent () Year-round

**Estimated Flows (cfs):** Lower end: 0.75  
Upper end: None

**Water Temperature(C):** Lower end: 5.6  
Upper end: 4.4

**Receiving Water Temperature (C):** 5.0

**Other Observations:**

**Site Area Measurements:** () Indirect () Direct () Combination  
**Widths:** Channel: 2m **Ponds:** **Wetlands:**  
**Depths:** Channel: 20cm **Ponds:** **Wetlands:**  
**Total length (includes ponds and wetlands):** 2346m

**Total existing habitat area (est. m2):** 7680

<b>Spawning area:</b>	<b>Mainstem:</b> 48	<b>Tribs:</b>	<b>Total:</b>
<b>Impounded area:</b>	<b>Mainstem:</b>	<b>Tribs:</b>	<b>Total:</b>
<b>Other rearing area:</b>	<b>Mainstem:</b> 7632	<b>Tribs:</b>	<b>Total:</b>
<b>Unaccessible habitat:</b>	<b>Mainstem:</b>	<b>Tribs:</b>	<b>Total:</b>

Spawning habitat conditions:  None  Poor  Fair  Good  Excellent

Describe spawning habitat: Consists of 1" to 4" gravel, good brushy cover from blackberries and other brush, and a fair amount of in-channel cover for predator avoidance.

Rearing habitat conditions:  None  Poor  Fair  Good  Excellent

Describe pond and other rearing habitat: The first 500m is approximately 30% pooled, has good brushy cover as well as an occasional piece of LWD. This reach has the majority of the spawning gravel. From 500m to 775m there is a higher percentage of pooled habitat with some canary grass and rush in places. From 775m to 1600m there is mostly riffled habitat with some gravel showing up in places. Above the 1600m point, this site flattens out and has mostly pooled habitat. It flows through a clear cut and some very brushy, young hardwood stands. There were many areas that were peppered with water parsley in this upper section as well as a 1240 square meter cattail swamp.

Describe inaccessible habitat:

Wetland type:  Bog  Marsh  Scrub-shrub  Forested

Describe:

Flooding potential:  Low  Medium  High

Describe: This site appears stable as there was little evidence of flooding found on the day of the survey.

#### FISH INFORMATION

Site entry condition:  Poor  Fair  Good

Describe: There is a pool present at the entry area.

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

Describe: Four adult coho were observed on the day of the survey but no juveniles were seen. However, this site is accessible to juveniles and may get some over-winter use.

Other species access and use:  Chum  Pink  Sockeye  Chinook  Trout

Describe: A six inch trout was observed during the survey.

ENHANCEMENT OPPORTUNITIES: None

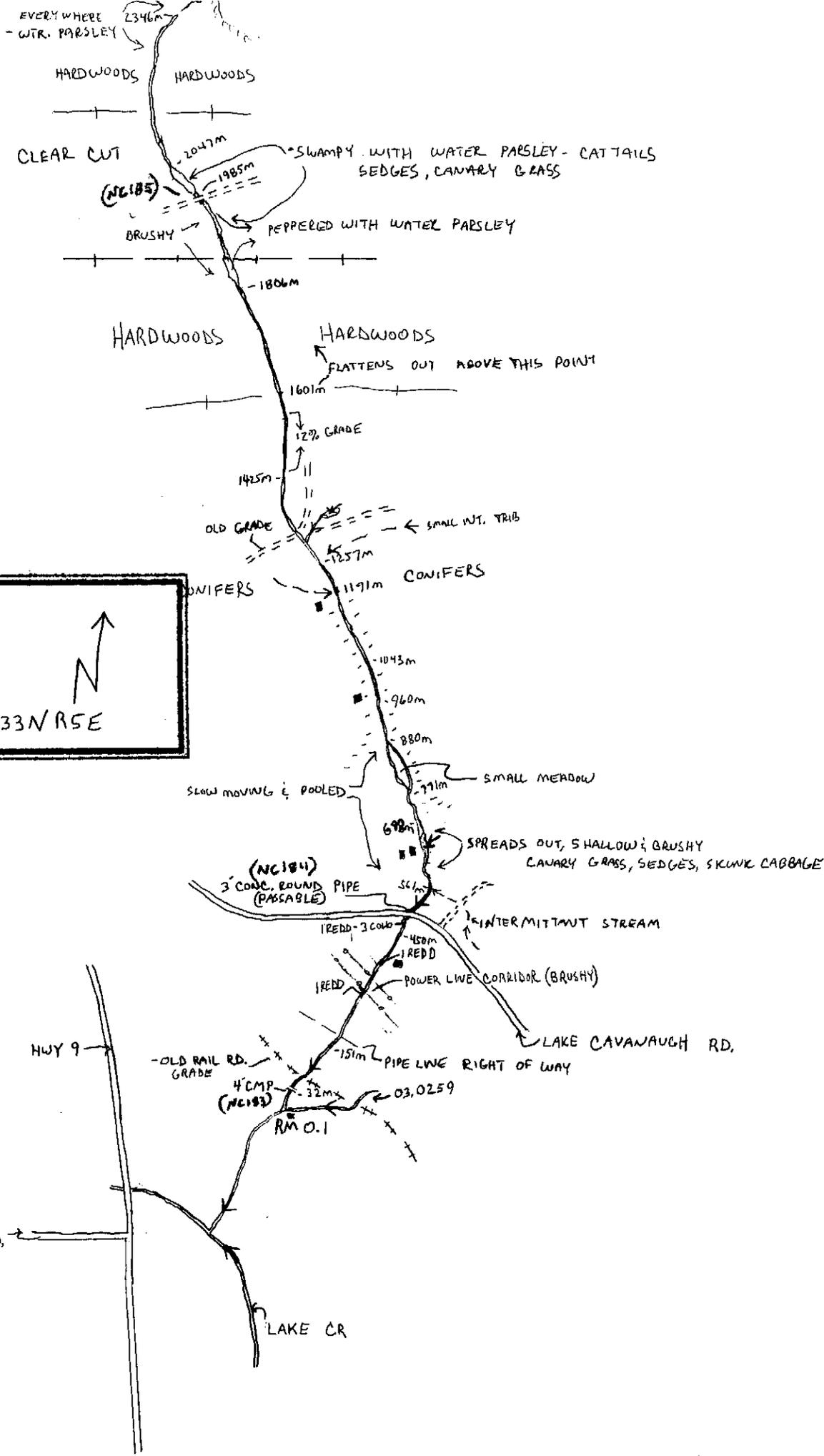
Project type:

Equipment access:

ADDITIONAL COMMENTS: It would be interesting to see how watered up the upper section of this site is during the summer months (the lower section is dry during the summer).

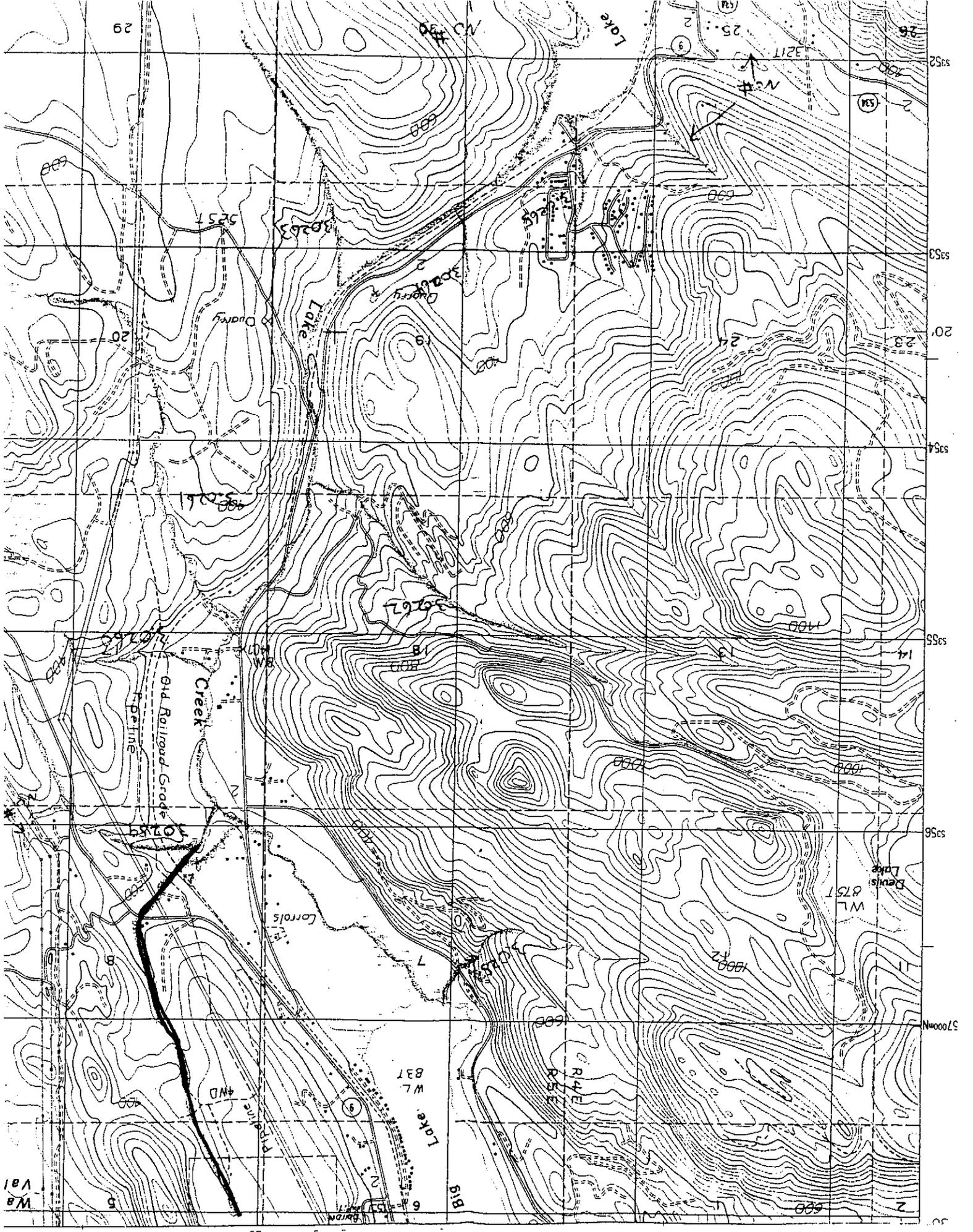
#### ATTACHMENTS AVAILABLE

Aerials  Sketch  Maps  Spawning Surveys  Juvenile Trapping  
 Other References



Site id. code: WN3RB1  
 Site name:  
 Scale: 1" = 260m  
 Observer(s): OLIS  
 Legal location: SW 1/4 S8T33N R5E





WN 3 RB 1

RM 0.1

SW 1/4 S8 T33 N R SE

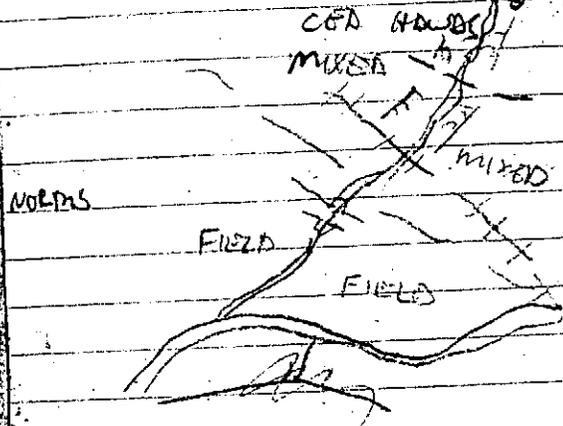
TRIB TO .0259

.0259A ?

12-9-98

I. CAV. RE.

TRIB TO .0259 D



0.0 ENTRY

FLOW 0.75 CFS

WT - 42° - 56° 4.4 @ 0.0

RWT - 41° - 50°

ACCESS - POOL @ ENTRY

32m. WW 2m

40% POOL

GRAVEL SUBSTRATE

4m<sup>2</sup> SP HAB

1" → 4" GC

EV. COVER

HEAVY BLACK ROCKS

@ 4' CMP

APPEARS PASSABLE

~ 2% SLOPE.

50m 2m WW

- @ RAILROAD GRADE  
(REMOVED)

- 1 ADULT COMO
- INTO TREES CEDARS & WILDS

79m WW 3m

- MOSTLY RIFE
- CORN & GRAVEL
- SUB 3M SP. HAB
- @ FENCE LINE

151m WW 3m

- 4M<sup>2</sup> SP HAB
- SOME WOODY DEBRIS
- 41 STEP POOLS

172m WW 3m

- SOME STEP POOLS
- @ PIPELINE ROW?
- BRUSHY NO TREES

190m - WW 1m

- SOME CANARY GRASS
- BLACK BERRIES
- BACK INTO THE TREES

216m WW 2m

- 3M<sup>2</sup> SP. HAB
- BRUSHY

240m WW 5m

- ALL SPREADS OUT
- THRU BRUSH

240m

- 4m<sup>2</sup> SP HAB

277m WW 3m

- 3m<sup>2</sup> SP

- LOOKS LIKE A POSSIBLE  
REDD.

- @ POWER L ROW

330m WW 2m

- 20% POOLED

- 2m<sup>2</sup> SP H

- END OF ROW

- BACK INTO TRASS

350m WW 2m

MOSTLY POOL

- HOUSE UP OUT OF  
OF LB

450m WW 4m

- 60% POOLED

- REDD ≈ 40m ABOVE

POWER LINE

- LOTS OF WOODY  
DEBRIS SPANNING  
CHANNEL

- 6" TROUT OBSERVED

- 4m<sup>2</sup> SP HAB

500m WW 2m

- 3L - 1R

- 3m<sup>2</sup> SP HAB

- @ 3" CONC. ROUND

- L. CAVANAGH R.

500m

- CULVERT APPEARS PASSABLE TO ADULTS
- 15' → 20' OF RD. FILL
- CULV. IS 25m - 30m L

561m w/w 2m

SANDY/MUD SUBSTRATE

- SLOW MOVING

- TRIP ON LB

↳ - 16m TO DRIVEWAY

- 1' CULVERT

- 0.5m W/W

20m SMALL

- 6m W SWAMP

120m - 0.5

SUBSURFACE FOX

3m END OF

HOB.

VERY NT.

BACK TO MAIN STEM

600m w/w 2m

- SLOW MOVING - BECKIN

CANARY GRASS

- (a) BRN & HOUSE

& A SUMMER ROAD

- SOME WATER CANAL

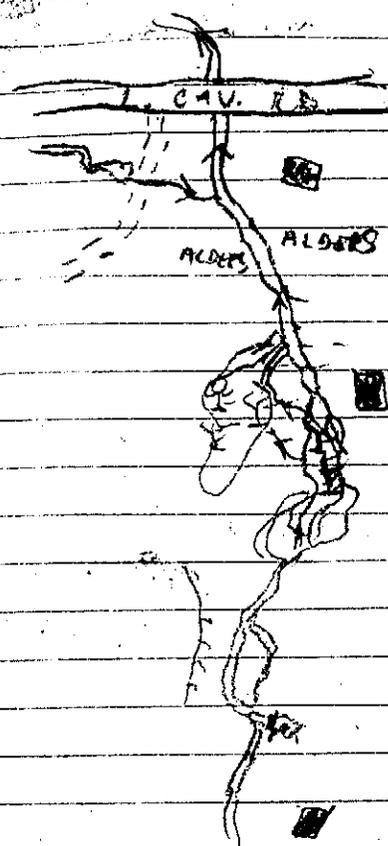
W ON LG FLOW

WOODS SWAMP

660m w/w 10m?

- BRUSHY CAN GRASS

- HARD TO FIND CH



698 m BRIDGED ON  
THRU BRUSH OPEN  
ARBIT

WTC P @ 660 m  
BACK INTO ALDERS  
- SEDGES, CAN GRASS  
BUTTER W/P, SKUNK  
CABBAGE, WILDER W/P  
BRUSH -

771 m WWT  
- SILTY SUBSTR.  
- MEADOWS  
- @ FORK ON RB

1/4 ACRE MEADOW  
@ 804 m

845m w w 2m

- some P. GL showing
- SLOPE ON LB

880m w w 2m

- TOP OF ROCKS
- SOME GL. SHOWING
- $2m^2$
- MOSTLY SLOW-MOUNTAIN FROM RD TO THIS POINT

960m - w 2m

- $7m^2$  SP HAB
- 60% RIFF
- OLD STRUCTURE UP ON RB

1043m w w 1.5m

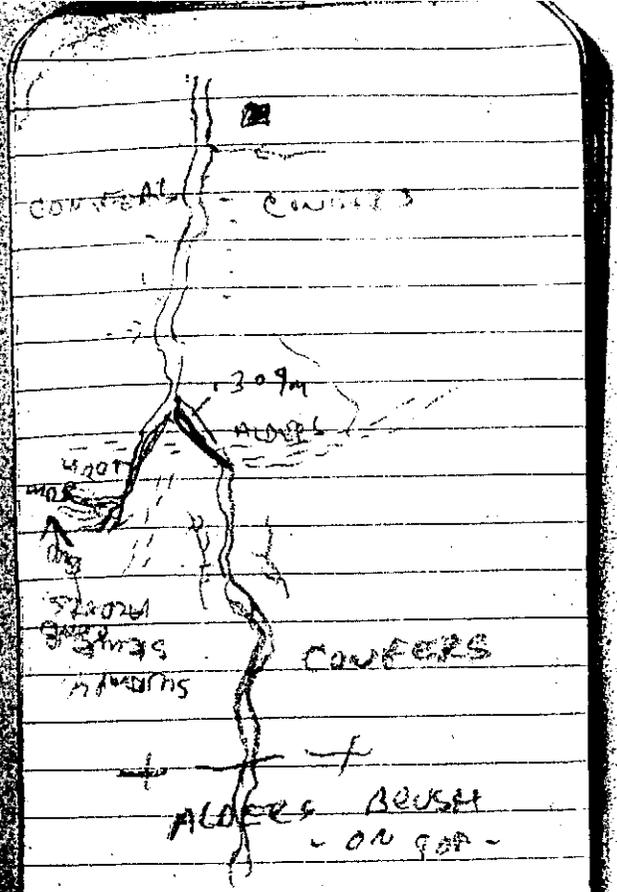
- COBBLE & GR
- $4m^2$  SP HAB
- BANKS SLIGHTLY INCISED IN PLACES
- @ OLD FENCELINE & CONIFER STAND.

1191 w w 1m

- COBBLE AND RIFF
- SM. INT TRIG ON RB
- ANOTHER CABIN ALSO

1257m w w 1m

- $2m^2$
- 40% INT TRIG ON LB



1309m wwl m  
 @ FORK  
 RP HAS MOST OF  
 FLOW, LF 150m L  
 x 15m

1425m wwl m  
 - 7% GRADE  
 - Zone

1601m wwl m  
 - 1425 → 1500 12%  
 DOWN FLATTENS OUT  
 AGAIN  
 - 2m  
 - OUT OF CONCRETE  
 STAND

1806m w/w 2.5m

- MOSTLY PASTURE - SLT
- FLOW STRONG BRUSH
- PLENTY, LOTS OF SWD.
- FAIRLY FLAT UP HERE
- @ OLD GRADE
- ~~+ 200m~~
- WTR POOLED UP ON
- UPSTREAM END w/
- WATER PANS,

1872 - POOL 10m

- MOSTLY SH. POOL
- w/ LOTS OF WTR
- VERY LITTLE FLOW
- @ EDGE OF CL CANY.



1897 w/w 4m

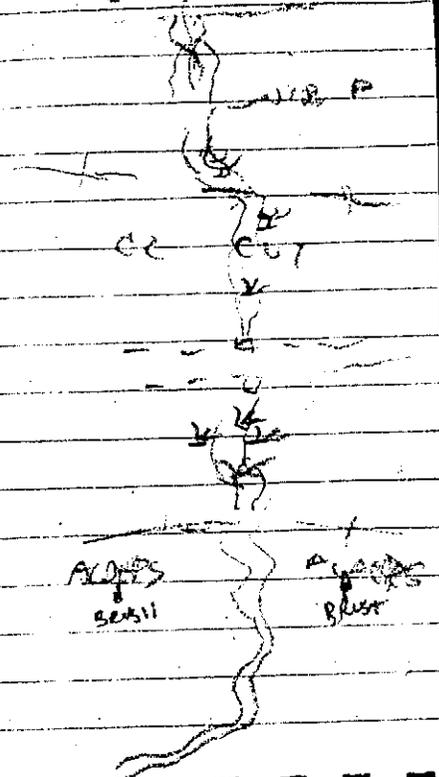
- DIFFICULT TO FOLLOW
- VERY INUNDATED
- AREA w/ WTR @
- EVERY WHERE

1920m w/w 2m

- HARD TO FIND
- WTR @ TIMES
- POPLAR TO 5m
- OPENING w/ RUSH
- CAN GRASS WITH
- PASLEY LITTLE
- STANDING WTR

ALPINE BUSH

1806m



ALPINE BUSH

ALPINE BUSH

1985m was 5m  
 WETTED SWAMP  
 SPARSE w/ FRUITALS  
 BUSH, CAN. GR. BUSH  
 @ 2' CULVERT &  
 LOGGING ROAD.

2047m was 20m  
 SWAMP PEPPERED  
 w/ WTR P.

2119m was 5m  
 BRUSHY AND  
 ROSE CH. LOTS OF  
 STANDS WTR.

2200m WW 1.5m

- SHALLOW, SE W.
- NEW DITCH
- A FEW WTR P.
- STILL LOTS OF
- ST. WTR IN PLACE

2240m WW 3m

- LOTS OF WTR P.

2300m WW 2m

- BARELY FLOWING

2340m WW 6m

- POOL - WTR P.



- STRANDING WTR

- CAN'T FIND

ANY FLOW - END

OF SURVEY

- WTR TEMP 40°

• COMPONENTS

WATER TREAT SYSTEM

MAY HAVE WTR

UP ABOVE W PLACE

DURING SUMMER

- FAIR<sup>100</sup> SP. HAB

• ALL CULVERTS

5.50M PASTURE

- LOW FLOOD

- GOOD REPAIRS & ASSESS

BUT DOUBTFUL IN AGE

- STRANDING?