

SITE INFORMATION

Site Identifier : WN3RB10 **Landowner Type :** Private
Site Name : **Landowner Name :**
WRIA : 03.0227X **Address :**
Region : NS **Address2 :**
Trib to : Lake Cr **City :**
River Mile : 13.60 **State :**
River System : W. F. Nookachamps **Zipcode :**
Legal Description : SE1/4S19T33NR5E **Phone :**
County : Skagit
Habitat Type : off-channel pond

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 1.7 miles. Hike down and across Lake Cr. to the site.

Area Overview :

This small pond is formed by beavers blocking the upstream end of a culvert that goes through an old grade. It appeared that juveniles could access the site on the day of the survey but may not be accessible during lower flows. This site provides excellent over-winter rearing but no spawning gravel was found.

Field Survey Information

Date : 01/21/1999 **Observer :** Olis **Survey Type :** initial

HABITAT INFORMATION

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

Flow: (X) Intermittent () Year-round

Estimated Flows (cfs): Lower end: 0.3
Upper end: 0.1

Water Temperature(C): Lower end: 5.5
Upper end: 6.1

Receiving Water Temperature (C): 5.3

Other Observations:

Site Area Measurements: () Indirect (X) Direct () Combination
Widths: Channel: 1m Ponds: 40m Wetlands:
Depths: Channel: 10cm Ponds: 1m Wetlands:
Total length (includes ponds and wetlands): 140m

Total existing habitat area (est. m2): 3615

Spawning area:	Mainstem:	Tribs:	Total:
Impounded area:	Mainstem: 3550	Tribs:	Total:
Other rearing area:	Mainstem: 65	Tribs:	Total:
Unaccessible habitat:	Mainstem:	Tribs:	Total:

Spawning habitat conditions: None Poor Fair Good Excellent

Describe spawning habitat: .

Rearing habitat conditions: None Poor Fair Good Excellent

Describe pond and other rearing habitat: A 40m by 60m pond was formed as beavers plugged up a culvert through an old grade. The pond is 1m deep in places with good amounts of SWD and milfoil. Other vegetation present includes: duckweed, water parsley, sedges, rush and canary grass. There are two small feeder tribs to this pond. They are slow-moving, shallow with good brushy cover.

Describe unaccessible habitat:

Wetland type: Bog Marsh Scrub-shrub Forested

Describe:

Flooding potential: Low Medium High

Describe: This site appears stable with little evidence of flooding found. However, it is possible that extensive beaver activity could flood the area more than it is now.

FISH INFORMATION

Site entry condition: Poor Fair Good

Describe: At the entry area, the water flows through a 2' cmp into another beaver pond.

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

Describe: Although it appears that adults could access the site, there was no spawning gravel found to entice them in. It appears that juveniles can also access the site with the only difficult section being the riff just above the culvert and through the material placed there by the beavers. The caudal fin of a small fish was observed at the head end of the pond but it disappeared before it could be identified.

Other species access and use: Chum Pink Sockeye Chinook Trout

Describe: The small pond provides excellent trout habitat also and it appears accessible to them.

ENHANCEMENT OPPORTUNITIES: The old grade and culvert present an opportunity to impound water above the grade as the beavers discovered. It appears that the pond area could be enlarged but the probable intermittent water source and the beaver activity makes this idea less attractive.

Project type:

Equipment access:

ADDITIONAL COMMENTS: The culvert itself appears passable to juveniles. It is the beaver activity above the culvert that seems to make fish access intermittent. However, without the beavers work, there would be no pond. The survey ended where the small inlets seem to bleed out of the ground.

ATTACHMENTS AVAILABLE

Aerials Sketch Maps Spawning Surveys Juvenile Trapping
 Other References

LAKE CREEK
BEAVER POND

HARDWOODS

HEAVY BRUSH ALONG EDGE

OLD GRADE - NOT DRIVABLE

- 2' CMP
PARTIALLY PLUGGED BY BEAVERS
APPEARS PASSABLE

OVER 1m DEEP
IN PLACES

SMALL POND: HAS GOOD AMOUNTS
OF MILFOIL, SWD; WITH SOME
CANARY GRASS, WATER PARSLEY,
DUCKWEED, SEDGES & BRUSH; VERY
MUCKY

- 2" to 3" DEEP
@ THIS END

- 1' WIDE CHANNEL
- 2" DEEP
- VERY BRUSHY

OLD GRADE
NOT DRIVABLE

BLEEDS OUT
OF GROUND

HEAVY BRUSH →

SEEPAGE

40m

JUVENILE SALMONID

REFEED

- STREAM FLOWS UNDER
OLD GROWTH STUMP
& LOG

HARDWOODS

- SPREAD OUT
- SHALLOW, SLOW-MOVING
- BRUSHY

24m

MIXED FOREST

BLEEDS OUT OF GROUND

40m

Site id. code: WN3 RB10

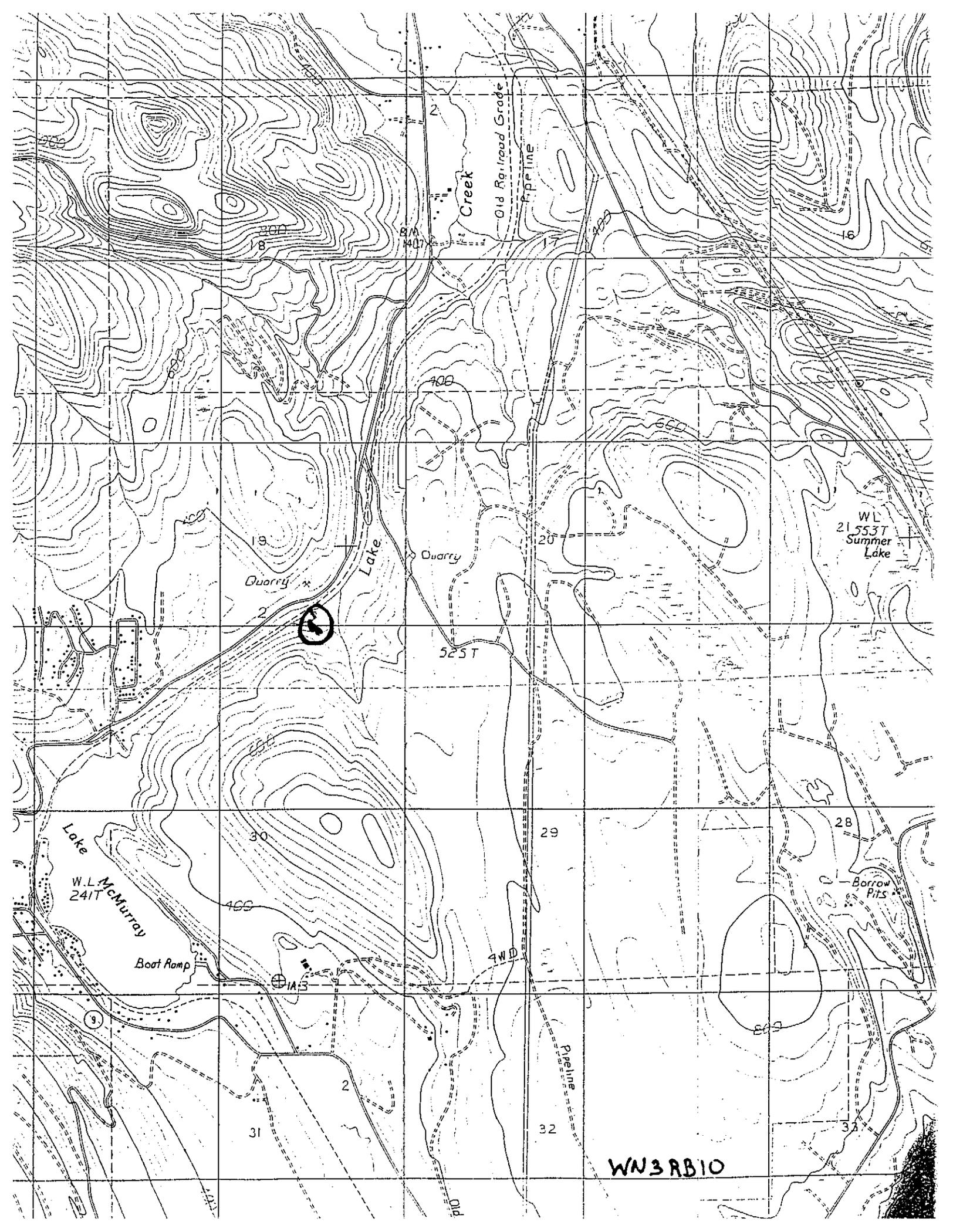
Site name:

Scale: 1" = 10m

Observer(s): M. OLIS

Legal location: SE Y4 S19 T33N R5E





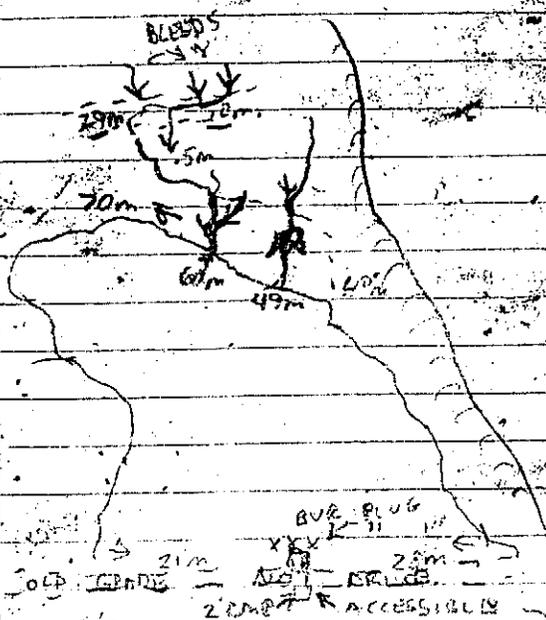
WN3RB10

WN3RB10

RM 13.6

SE 1/4 S19 T33N R5E

1-21-99



O.D FLOW

- 0.3 CFS

- W. T. - 42°

- R. T. - 41.5°

- ACCESS. INTO BVR. POND. GOOD

- RIEF ~~ON TOP~~ ABOVE CULVERT, IS PASSABLE

- 2 CMP 6m LONG

- LOOKS PASSABLE ENHANCE?

- SEEPAGE @ 30m LB

- 40m WW HS POND

- VERY MUCKY, LOTS OF SWD

- LOADED W/ MILFOIL
- SOME WAT. PAKS
DUCK WOOD, CAN.
GRASS SAGES
~~DOUBLE~~ ~~LEFT~~

70m WW 2.5m
- SHALLOW, MUCKY
- AQUATIC VEG. BRUSH

- 2ND TRIP IS 30m
LONGER SM. AMOUNTS
OF GRAVEL
- 2" DEEP
- VERY BRUSHY
- BLEEDS OUT OF
GROUND GROUND WTR



1ST TRIP
60m WW 1m
- SLOW, SHAL.
- OLD CR CEDAR
FISH?
- FLOWS UNDER
OLD CR CEDAR &
L
- SEEMS PASSABLE

24m WW 2m
- SPREAD OUT SHAL

40m WW 1m
- BRUSHY
- 1"-2" DEEP
- WTR SEEPS

- 40m ... OUT OF GROUND.
- END OF HAB.
- WTR TEMP. 43°
- FLOW L.O. 1C

COMMENTS

- NO SPAWN HAB.
- EVC, REARING CAUDAL TAIL OF SM. FISH SEEN
- GRND WT. FGD.
- PAVS WETTED
- YEAR ROUND
- LOW FLOOD

- OLD GRADE & PLUGGED CULVERT
- CREATES IMPOUNDED AREA, OVER 1500 M². (CAN IT BE ENHANCED.
- YEAR ROUND FLOW?
- SOME SKUNK RABBIT.