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SITE INFORMATION

Site Identifier : WN2LB4 **Landowner Type :** Private
Site Name : **Landowner Name :**
WRIA : 03.0227X **Address :**
Region : NS **Address2 :**
Trib to : Big Lake **City :**
River Mile : 7.80 **State :**
River System : W F Nookachamps **Zipcode :**
Legal Description : NW1/4S36T34NR4E **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 Highway 9 and go 3.6 to West Big Lake Blvd. on the left. Turn left and go 3.8 miles to the site.

Area Overview :

This is an intermittent trib that flows into the northwest tip of Big Lake. It probably flows 6 to 9 months out of the year and some of the upper sections may stay wetted year round. 19m from the lake is a concrete raceway structure that is a barrier to fish passage. This site also has 6 culverts in which 3 of them are barriers. This site does offer some fair over-winter rearing and spawning habitat but it is unclear if juvenile coho would be able to access the top section of the site where the best rearing is available.

Field Survey Information

Date : 03/01/1999 **Observer :** Ollis **Survey Type :** initial

HABITAT INFORMATION

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

Flow: (X) Intermittent () Year-round

Estimated Flows (cfs): Lower end: 0.4
Upper end: None

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

Receiving Water Temperature (C): 6.1

Other Observations:

Site Area Measurements: () Indirect (X) Direct () Combination
Widths: Channel: 1m Ponds: 10m Wetlands:
Depths: Channel: 20cm Ponds: 1m Wetlands:
Total length (includes ponds and wetlands): 1673m

Total existing habitat area (est. m2): 2140

Spawning area:	Mainstem: 12	Tribs:	Total:
Impounded area:	Mainstem:	Tribs:	Total:

Other rearing area: Mainstem: 2128 Tribs: Total:
Unaccessible habitat: Mainstem: Tribs: Total:

Spawning habitat conditions: None Poor Fair Good Excellent

Describe spawning habitat: There are patches of spawning habitat which consists of 2" to 4" gravel, a fair amount of brushy cover, and a poor amount of in-channel cover.

Rearing habitat conditions: None Poor Fair Good Excellent

Describe pond and other rearing habitat: In the first 372m, the creek averages 1m in width and is mostly riffled. In this reach there is a 66m long concrete raceway that is 2' wide. It looks like a barrier to fish passage. There are also 2 culverts, with the one under West Big Lake Blvd. being a barrier. The banks in this reach lack vegetative cover and is ditched out in places. From 372m to 1189m, the creek is in a small draw and averages 10% in grade. It gets as high as 16% grade in a 32m stretch. This reach does have good brushy cover and as well as another barrier culvert at 1032m. From 1189m to 1673m, the site flattens out and the habitat becomes slow-moving and pooled. There is a 43m by 10m pond in this reach that is surrounded by canary grass and brush. There are some areas that are peppered with water parsely and has heavy brush.

Describe unaccessible habitat:

Wetland type: Bog Marsh Scrub-shrub Forested

Describe:

Flooding potential: Low Medium High

Describe: This stream may have high flows of its own as one landowner claimed that a bunch of bedload and debris got flushed down during a storm event several years ago.

FISH INFORMATION

Site entry condition: Poor Fair Good

Describe: Fish can access the stream easily from the lake.

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

Describe: Fish use is very limited because of the concrete raceway structure that starts 19m from the lake. It is very doubtfull that fish can pass this structure as there is some sheet flow created in which water levels are only 1" to 2" deep. The landowner at the lake said that he has seen fish up to the raceway.

Other species access and use: Chum Pink Sockeye Chinook Trout

Describe: This site does offer good trout habitat but it is very doubtfull if they can pass the above mentioned raceway.

ENHANCEMENT OPPORTUNITIES: This site can be enhanced by removing the raceway structure just above the lake and repairing the barrier culverts.

Project type:

Equipment access:

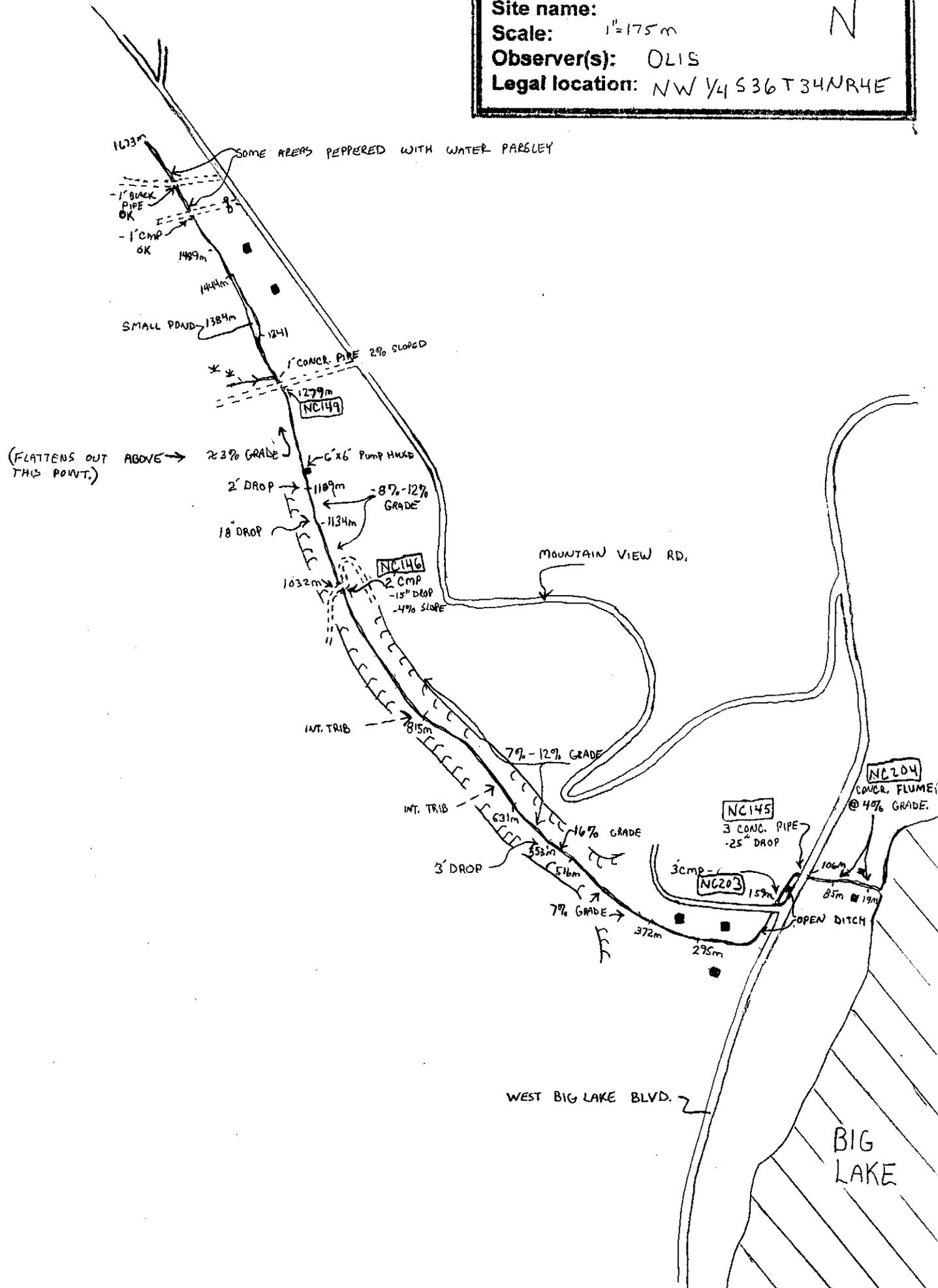
ADDITIONAL COMMENTS: At 19m there is a concrete raceway structure that is 2' wide at the bottom with 1' high walls. This structure appears to create some sheet flow and velocity barriers to juvenile and adult fish. At 106m (under West Big Lake Blvd.), there is a 3' concrete round pipe that has a 25" outfall drop and is over 1% sloped. At 159m (under Boyd road), there is a 3' cmp that lays flat and has streambed material through it. At 1032m (under a private logging road),

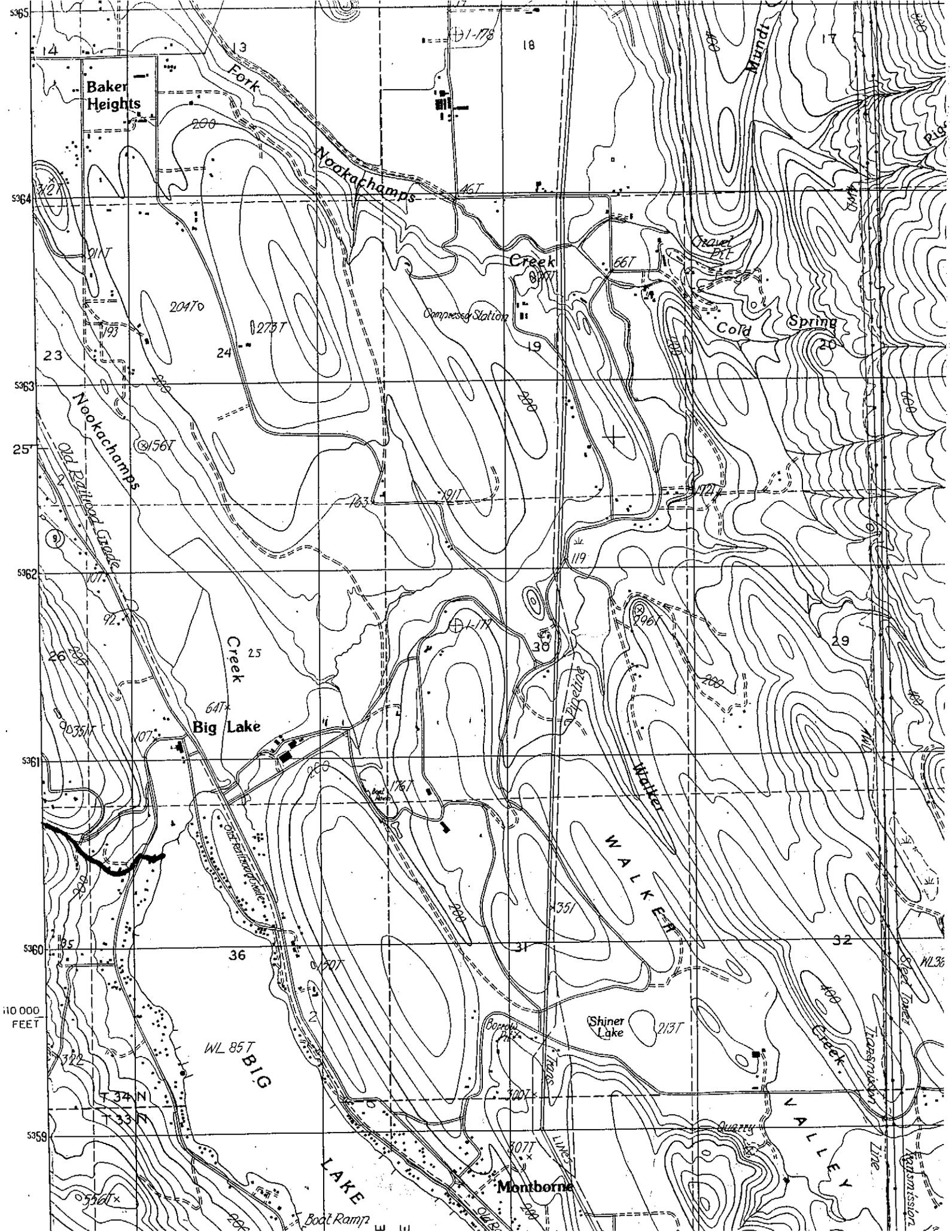
there is a 2' cmp that has a 15" drop and is over 1% sloped. At 1279m (under a private road), there is a 1' concrete round pipe that appears over 1% sloped and may be a barrier during certain flows. At 1543m and 1605m there are 1' culverts that lay flat and appear to allow fish passage. The survey was ended as the habitat became disconnected in a brushy patch along Mountain View road.

ATTACHMENTS AVAILABLE

Aerials Sketch Maps Spawning Surveys Juvenile Trapping
 Other References

Site id. code: WN2LB4
 Site name:
 Scale: 1"=175m
 Observer(s): OLIS
 Legal location: NW 1/4 S36 T34 NR4E





10 000 FEET

WNZ LB 4

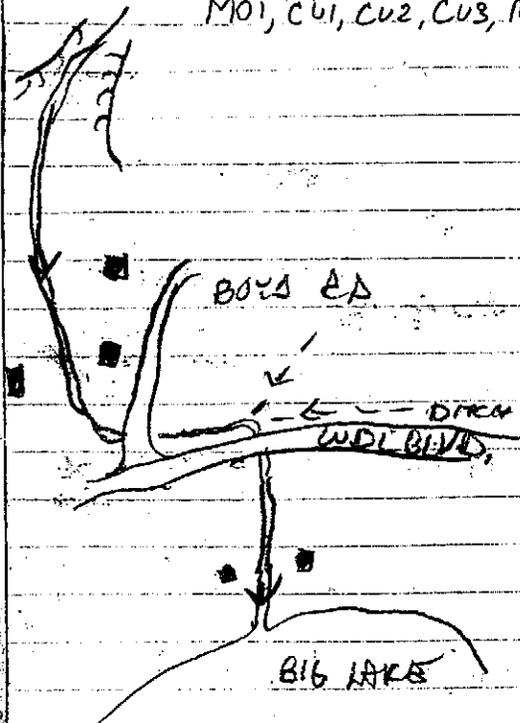
RM 7.8

NW 1/4 S36 T34N R4E

(ENTERED ALL CULVERTS)

3-1-99

M01, C01, C02, C03, M02



0.0 ENTRY
FLOW - 0.4 CFS
T - 43°
RWT - 43°
ACCESS - INTO LAKE

19m. was 1m
- MOSTLY RIFF w/ COBBLE
- OPEN LAKE
- BEGINNING OF COVER
RAKE WAY

20 85m. was 0.75m
- RIFF
- SOME SHEET FLOW
- 47% GRAB
- POSS. VELOCITY BARREL
TO JUV.

85m END OF
RACEWAY.

106m W/W 1M
- 25% POOLED
- SOME BLACK BEDDING
- @ 3' CONC. ROAD
W/ 25" DROP
WEST BL BLVD.
- 20 5% GRADE

CUL

120m UPSTREAM END
OF CULV.
- 1' DROP INTO CULV.

159m W/W 1M
- RIFF W DITCH
- COBBLE / @ BOYS RD
AND 3' CMP. OK

171m UPSTREAM END
OF CULV.

TURNS AWAY FROM ROAD
@ 208m

295m W/W 0.75m
- 60%
- COBBLE @ GR.
- SOME BLACK B.
- MOSTLY OPEN DITCH

372m WW 2m

- SPREADS OUT
- 30% POOLED
- 3m² ST HAB
- 2" 4" CL
- OPEN

- BEGINNING OF CROSS

516m WW 1m

- BOULDERY / 15% POOLED
- 7% GRADE
- RIFFLE SM. CASC.

553m WW 1m

- CASC. - 16%
- @ 3' DROP

2' DROP @ 603m

631m WW 1m

- (6m² POOR ST. HAB
- SINCE 600m)
- 7% GRADE

- HIGH GRAD. TRIB
ON RR @ 654m -

669m WW 1m

- 10% GRADE
- 1m²

815m WW 1m

- COBBLE / 3m²
- 12% WID
- HIGH GRAD. TRIB RR

1032m ww 1m

- 12% GR

- BOULDERY COBBLE

- @ 2' CMP w/

- 15" DROP / \approx 4% SLOPE

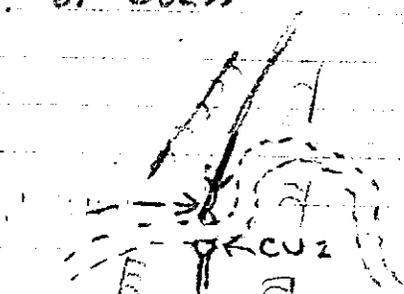
- 2m x 1m PL. PDDL

- 18" DEEP \nearrow

- NO MATERIAL TIVEN

- @ GRADE **CU2**

1040m UPSTREAM END
OF CULV.



1134m ww 1m

- WT TPB 4% GR

ON \approx RB

- @ 18" DROP

- \approx 38%

- 1189m ww 0.75

- 12% CL @ 2' DAP

GOOD BRUSH

1209m ww 1m

- @ 6' x 6' PUMP
HOUSE

- CR IS 3% GRADE

INT. TRICKLE ON RB

@ 1241m

1279m WW 0.75m

- 35% POOLED 3% GR

- BRUSHY

- @ 1' canal. ROAD

- 2" DROP - OVER

- UNDER ^{GATED} ~~TO~~ } 1% GR

GRADE. NO MAT. VAPOR PIPE

CU3

1287m ~~WW~~ UPS-REAR

END OF CULV.

ECK FOLKS - 2/3

FLOW W LF

RF

30m WW, 0.3m SL, M.

DITCH

55m WW 1.5m POOL

64m WW 0.3m

- TRICKLES ON LB

- DOESN'T LOOK PASSABLE

TO JUV. AND TO

SMALL FOR ADULTS

70m WW 0.3m

PAU OUT OF WTC

→ SMALL GORHAM

AREA ABOVE.

- BACK TO MANUST

LF

1341m WW 0.3m

- SLOW-M - CONVE GORHAM

- OPEN. @ BBLM.

- SMALL PAUD AHEAD

~~SWAMP~~ POND
LOOKS ACCESSIBLE

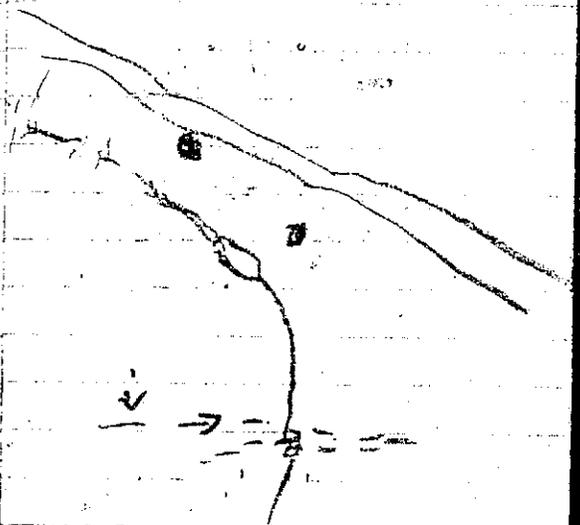
1384m NW 1.0m
- SMALL POND
- SURROUNDED BY
BUSH & CANARY GR.

4944m SW NW Am
- SPREAD OUT
- SHALLOW, 2" DEEP
- BROOKLY SAND
W/ PARAS, / MUD BATS

1489m NW 0.5
- SLOW-MOV.

1543m NW 2m
- SPEC. OUTS.
- LOTS OF WATER P.
- 1" DEEP, MUCKY
- BARELY FLOWING
@ 1' CAMP LOOKS OK
- 1548m UPSTR END

1605m SPREAD
OUT NO REAL CH,
- 4m NW
- LOTS OF WTR P.
- 1' BACK FLY
PIPE LOOKS PASSABLE
- UND. GR. DRIVEWAY



1639m WW 3m
 - POOL - BRUSHY - DEEP.
 w/ WAT. PAR.

1673m WW 2m
 - DISCONNECTED -
 STANDING WATER
 WATER TEMP - 43°
 - NO FLOW -

COMMENTS

- LOW FLOOD, SURF
 & GRND WATER LEED
 ! INST FLOW - FAIR
 - POOR SP. HABITAT
 HIGH FLOODS TO SPICE
 - 3 BARR. CULV.
 - SHORT FLOW