

SITE NUMBER: SH-R2-03
LOCAL NAME: Mosley Spr.
WRIA: 20.0478B

NORTH COAST OFF CHANNEL SITE INVENTORY DATA

RIVER SYSTEM: S.F. Hoh **DATE:** 7/28/88 **OBSERVER:** Young

CHANNEL TYPE: Terrace Trib. (wall-based)

TRIBUTARY TO: S.F. Hoh River (20.0473)

SITE LOCATION: RB @ River mile - 5.2

LEGAL DESCRIPTION:

	UPPER END	LOWER END
WATER TEMP.:	N/A	50 F
AIR TEMP.:	N/A	N/A
FLOW (CFS):	Dry	0.5

SUBSTRATE TYPE: Sand, silt and mud. Some gravel at lower end.

SITE SIZE: **Length-** 550 - 600 m overall
 Width- 2 - 4 ft (to 10 ft in lower 75 m)
 Depth - 2 - 4 inches (pools to 1 ft)

WATER SOURCE: Springs.

DIRECTIONS TO SITE: Head north on Hwy 101. Turn right at mile post 176 onto the Hoh Mainline. Turn left just prior to mile post 7.0 onto the H-1000. Follow the H-1000 about 2.4 miles to a major fork. Stay right at the fork and continue on the H-1000 approximately 5.5 miles to the H-1000 bridge and the South Fork Hoh Campground. Continue on pass the campground and up the hill. The H-1000 ends at a landing about 2 miles beyond the campground. SH-R2-03 is located south-east of the landing. (See site direction map). Also accessible at low flows from the LB (H-1080) by fording the river.

FISH ACCESS AND CURRENT USE: 0+ coho were seen to the fork in the middle reach of the channel. Limited winter rearing may also occur.

FLOODING POTENTIAL: Low. Except moderate to high in the lower 75 m.

LANDOWNER: Unknown at this time. Probably DNR.

COMMENTS & RECOMMENDATIONS: SH-R2-03 is small spring-fed channel located just outside of the Olympic National Park boundary. It currently appears to offers a limited amount of summer and winter coho rearing habitat. SH-R2-03 enters the river at fairly large, deep, back eddy. The lower 75 m reach of the channel lies in an active S.F. Hoh overflow channel. The 85 m reach just upstream of the overflow channel is deeply incised (3 ft wide x 5 ft deep). The channel forks about 25 m above the upper end of the incised channel. Both arms of the channel go dry about 75 to 85 m above the fork. The right arm continues as a shallow, well vegetated depression for another 165 m before the channel becomes undefined. The left arm ends some 150 m above the fork at a small (50 x 10 m), dry pond. The pond, which is surrounded by higher ground and has no apparent inlet, appears to have water to a depth of 1 to 2 ft during the winter months.

A beaded channel and/or the excavation of a small pond near the fork of the channel may be feasible. May want to look at this area during the winter to see how much water is actually present.

While SH-R2-03 currently lies in an area of old growth timber, cutting boundaries have been marked and the area appears scheduled for logging in the near future. Depending on how the unit is logged and where the roads are located, machine access may be available to this site after it is logged.

DATE: 5/16/90

OBSERVER: King, Nettnin

The roads have been built into this area and will provide good access to this channel, SH-R2-02 and SH-R2-01. There has been some road building problems but no major impacts on the channels yet. The channels are well buffered so if the loggers observe these buffers the channels should stay in good shape.

DATE: 8/20/90

OBSERVER:

This area has been logged and there have been minimal impacts to the streams. Still has a good flow and fry were seen. This will be included on the 1991 project list for enhancement.

DATE: 10/10/90

OBSERVER: Nettnin

The area around SH-R2-03 has been logged. There is a good buffer left so there is very little apparent impact on the channel.

The access road is closed to vehicles.

DATE: Winter 1990/91

OBSERVER:

The buffer that was left around this site has blown down except for a couple of large spruce trees. A cooperative project has been proposed. DNR to salvage the blown down trees with the stipulation that they leave some parts for wildlife. DNR will develop access for WDF into this area to work on an enhancement project for overwintering juvenile fish.

DATE: Sept. 1991

OBSERVER:

WDF excavated the area in the L.B. arm identified as a "small, dry pond" on the original survey in 1988 to provide depth for rearing fish. DNR labor crews and WDF installed 4 plank controls in the outlet channel of this site to backwater the lower untouched channel and the upper excavated channel. All disturbed sites were revegetated with grass, shrubs and trees. Shallow "wetland" benches were created around the perimeter of the ponded areas.

The channel has remained free flowing except for the time it took to fill the pond, less than overnight, after the upper control was installed. Fry were observed in the area during installation of the controls and adults spawned in the fill between the controls shortly after work was completed.

DATE: 10/30/91

OBSERVER: King, Young, Nettnin

In late summer the LB spring channel below the access road was excavated to create a pond. The shallows have been planted to wetland species (sedges and rushes mainly), cover structures have been added, the disturbed areas have been mulched, seeded, and replanted to alder, willow and spruce.

A set of four controls were installed in the main egress channel to control pond level.

The channel has remained free flowing except for the time it took to fill the pond, less than overnight, after the upper control was installed. Fry were observed in the area during installation of the controls and adults spawned in the fill between the controls shortly after work was completed.

DATE: 1/30/92

OBSERVER: Young

Guge reading 0.43; Temp of Spring 8° C; Temp of river 6.5° C

River is flowing through overflow channel 40 - 50 m from the weirs. Appears to receding. High water mark was marked with a flagged stick.

DATE: 1/14/92

OBSERVER: Darrow

Four minnow traps were baited with salmon roe and set in Mosley Springs. Two were set in the pond and two were set in the channel above the access road.

There were 11 Coho, 2 trout and 11 cottid caught in the pond and 1 Coho, 6 trout and 4 cottid caught in the upper channel.

DATE: Spring 1992

OBSERVER:

A smolt trap was installed in the outlet channel and 362 coho smolts, averaging 117mm, were enumerated as they migrated out of the site.

DATE: 3/6/92

OBSERVER: Darrow

Installed downstream migrant trap.

DATE: 5/14/92

OBSERVER: King, Nettnin

Mosley springs is still running .5 - 1 cfs during an unusually dry spring. It was observed that the young of the year were not present above the controls so it was decided to minnow trap some fry and move them into the pond.

DATE: 5/18/92 - 5/28/92

OBSERVER: Darrow, Rinda

During this time frame 260 - 0+ coho were moved from Lear Springs to Mosley pond. There were also 50 - 0+ Coho fry moved from below the smolt trap up to the pond.

DATE: 6/25/92

OBSERVER: King

Transferred 224 coho fry & 7 cutts from the lower pond of Lear Ck. Springs which was drying up.

DATE: 9/92 - 10/92

OBSERVER: King, Nettnin

The second phase of a co-operative project between DNR and WDF was completed during this time. The upper channel, beginning with the removal of the road fill and culvert, was excavated upstream for about 700 feet. Seven pools and two sections for spawning were included in the excavation. Thirteen plank controls and two flow controls were installed to control bed load shifting. Woody debris was added to the pools and the shallows were planted with sedges and rushes. All the disturbed areas were revegetated with grass, ferns, alder and other woodland species. A foot bridge was added for ease of access and to prevent disturbance of the stream bed due to foot traffic of recreationists. The construction of this project was done by DNR so a materials list is not available. Crew days: 10 (crew days based on a 10 man crew working 8 hrs/day).

DATE: Sept. 1992

OBSERVER:

DNR and WDF worked cooperatively to develop an overwintering habitat enhancement project in the R.B. arm of this site. WDF designed and supervised the project while DNR provided survey information, materials, heavy equipment, an operator, and a labor crew. The upper channel, beginning with the removal of the road fill and culvert, was excavated upstream for about 700 feet. Seven pools and two sections for spawning were included in the excavation. Thirteen plank controls and two flow controls were installed to control bed load shifting. Woody debris was added to the pools and the shallows were planted with sedges and rushes. All the disturbed areas were revegetated with grass, ferns, alder and other woodland species. A foot bridge was added for ease of access and to prevent disturbance of the stream bed due to foot traffic of recreationists.

DATE: 9/30/92

OBSERVER: King

Upper Mosely was watered throughout except for upper spawning pad.

DATE: 10/28/92

OBSERVER: Young

Water temp in the river (i.e. just above the mouth of SH-R2-3) was at 47° F. Water temp at the lower controls (i.e. below the pond) was also at 47° F. Water temp at the footbridge (i.e. at the lower end of phase II) was at 49° F.

The entire upper channel was watered. Average water depth between the pools was about 2 inches. Water was flowing over all the controls. Flow in the upper channel was estimated at 20 to 30 gal/min.

Flow at the lower series of controls (i.e. below the main pond) was estimated at 60 to 80 gal/min. Water level was at -0.1 ft on the staff gauge and was flowing over the third control board above the mouth at a width of 2 ft and a depth of no more than 2 inches.

DATE: 12/30/92 - 12/31/92

OBSERVER: Darrow

MINNOW TRAPPING REPORT

TRAP	DATE SET	TEMP	DATE PULLED	TEMP	COHO	CATCH			COTTID
						RBT	CUTT	0+	
1	12/30	N/A	12/31	N/A	0	0	0	0	4
2	12/30	N/A	12/31	N/A	0	0	0	0	6
3	12/30	N/A	12/31	N/A	0	0	0	0	0
4	12/30	N/A	12/31	N/A	0	0	0	0	9
5	12/30	N/A	12/31	N/A	1	0	0	0	8
6	12/30	N/A	12/31	N/A	1	0	0	0	2
7	12/30	N/A	12/31	N/A	2	0	0	0	0
8	12/30	N/A	12/31	N/A	1	0	0	0	0
9	12/30	N/A	12/31	N/A	1	0	0	0	0
10	12/30	N/A	12/31	N/A	0	0	0	0	0
11	12/30	N/A	12/31	NA	0	0	0	0	0
TOTALS:					6	0	0	0	29
Avg. L (mm)					93	0	0	0	N/A

DATE: 1/12/93

OBSERVER: King, Nettnin

One redd was observed within the new project site and two redds were observed at the lower controls of the original project.

DATE: 12/28/93

OBSERVER: King

No rain for 2 weeks. Saw juvenile coho in uppermost pool in upper Mosely. No sign of spawners. Good aquatic vegetation cover on lower Mosely side. This site is currently being trapped by DNR for upstream migrants.

DATE: March 1993

OBSERVER:

A downstream migrant trap was installed to evaluate the fish use of the project.

DATE: 8/3/95

OBSERVER: Nettnin

Modified quarry spill along the channel edge and below each of the controls. Installed a restriction in the channel, below the foot bridge, to improve fish attraction to upper reach. Cut a rough foot path along the edge of the pond. Material used: Materials were obtained on site.

DATE: 11/30/95

OBSERVER: King

Counted 16 adult coho in Upper Mosely.

DATE: 4/4/96

OBSERVER: Darrow

Removed migrant trap materials from site. Everything looked fine; lots of volunteer alder growing along channel banks. Numerous (15-17) redd flags from this winter's spawner surveys. Fry were observed throughout the system and some presmolts also.

DATE: 11/18/96

OBSERVER: Darrow

Did not observe any adults or redds but did see some juvenile fish. All the controls looked good. There was some minor (not a blockage) beaver activity which I cleared.

DATE: 5/8/97

OBSERVER: Powell/Darrow

Observed very few fry in the whole system but saw numerous smolt sized fish throughout. Everything looked great, except the lack of fry. System is being trapped for downstream migration.

DATE: 8/5/97

OBSERVER: Nettnin

- Removed grass that was inundating the spawning gravel.
- Improved the trail along side of the pond.

DATE: 10/20/97

OBSERVER: Powell

There was a beaver dam upstream of the trap box site that was not passable - I cleared all the debris off of the control. Everything else looked fine. Did not see any fish.

DATE: 3/22/98

OBSERVER: Darrow

No new beaver activity and no debris blockages. Did not see any past season spawner flags but did observe what appeared to be old redds in 2 or 3 locations. Only observed a couple of coho juveniles at the top end of project. ~ 1.25 - 1.5 CFS.

DATE: 11/5/98

OBSERVER: Darrow

Flow was a little low, estimated at 0.4-0.5 cfs through control notches. Vegetation is doing well. No dams or barriers cleared (some drift debris at notches). Although no new adult activity yet, numerous old flags indicate successful use of spawning gravel areas. Several salmonids were observed in pool control area. Leslie Sikora performed a spawner survey on this system on 11/10/98 no redds were detected.

DATE: 5/12/99

OBSERVER: Nettnin

Overall project looks good. The beaver has a dam built on the upstream control. I left it there for the summer; downstream migrants can pass and there are 0+ coho fry throughout the upper channel.

G.P.S. position data was taken and are as follows:

- Egress with S. F. Hoh River:	East 1,151,913 ft.	North 915,612 ft.
- Location of weirs	East 1,151,901 ft.	North 915,839 ft.
- Location of foot bridge	East 1,151,838 ft.	North 916,096 ft.
- Location of upper end of existing project	East 1,152,303 ft.	North 916,461 ft.
- Location of upper end of proposed project	East 1,152,712 ft.	North 916,285 ft.

DATE: 10/20 - 12/2/99

OBSERVER: King

On numerous occasions between these dates, opened beaver dam on upper plank control in the lower outlet of the channel. Persistent beaver activity. No adult fish seen on 11/9, but redds had been marked on 11/10 by the tribe. Possibly 2 new unmarked redds seen on 12/1. Project looks good.

DATE: 7/6/00

OBSERVER: Nettnin

The beaver dam is higher and deeper. The rest of the project looks fine.

DATE: 10/24/00

OBSERVER: Darrow

Large beaver dam, about 4 ft high and 24 ft wide, was constructed on top of the lower plank control. The riffle area directly upstream of the footbridge to the left bank pond is presently one large pond. This area was not accessible due to the dam. Opened a slot in the beaver debris, but this dam will need a crew for complete removal.

DATE: 4/4/01

OBSERVER: Darrow

Late winter, a beaver dam was dismantled and a barrier fence was installed. There has been no beaver activity since this work was performed. All the controls looked good. Observed some salmonids in the mid channel area, above the foot bridge. Also, this winter and early spring had lower than normal precipitation. There was still a good flow from this system.

DATE: 10/24/01

OBSERVER: King

Good flow. No adults were observed. New pond levels are beginning to rise. No beaver activity.

DATE: 11/14/01

OBSERVER: King

No adults observed yet. New project section is now flowing. Opened the plug between the old and new sections. Juvenile fish began moving upstream. No beaver activity.

DATE: 11/27/01

OBSERVER: King

Four redds were marked by the Hoh Tribe. One live coho was observed. No adult use in new section.

DATE: 2/6/02

OBSERVER: Darrow

MINNOW TRAPPING REPORT

TRAP	DATE		DATE		CATCH			
	SET	TEMP	PULLED	TEMP	COHO	RBT	CUTT	COTTID
1	2/5	7°C	2/3	7°C	9	0	6	0
2	2/5	7°C	2/3	7°C	14	0	0	1
3	2/5	7°C	2/3	7°C	10	0	0	0
4	2/5	7°C	2/3	7°C	10	0	0	0
5	2/5	7°C	2/3	7°C	20	0	1	0
6	2/5	7°C	2/3	7°C	22	0	0	0
7	2/5	7°C	2/3	7°C	24	0	1	0
8	2/5	7°C	2/3	7°C	18	0	2	0
9	2/5	7°C	2/3	7°C	18	0	0	0
10	2/5	7°C	2/3	7°C	11	0	2	0
TOTALS:					156	0	12	1

Average size: 86.4 mm STD: 8.8 Min-Max: 70-123 Count: 104 coho measured

COMMENTS:

Traps were placed in new project area.

Traps 1 and 2 were placed upstream of control in the first new pool (furthest downstream).

Traps 3 and 4 were placed in the second new pool.

Traps 5, 6 and 7 were placed in the third new pool.

Traps 8, 9 and 10 were placed in the fourth new pool (upper end of project).

DATE: 2/7/02

OBSERVER: King

Four dead coho adults were observed in the new project area, and one to two redds were visible. Six dead coho were seen in the old project section. No beaver activity.

DATE: 4/22/02

OBSERVER: Darrow

Project looked real good. Beaver is leaving lower control area alone. New project area is well stocked with smolt size coho and trout. Numerous fry were observed on the gravel portions at the plank controls. Water temperatures here were about 1 to 1.5 degree F warmer than Lear Sp.

DATE: 4/22/02

OBSERVER: Darrow

MINNOW TRAPPING REPORT

TRAP	DATE		DATE		CATCH			
	SET	TEMP	PULLED	TEMP	COHO	RBT	CUTT	COTTID
1	4/21	8.5°C	4/22	8.5°C	10	0	2	0
2	4/21	8.5°C	4/22	8.5°C	2	0	0	0
3	4/21	8.5°C	4/22	8.5°C	4	0	2	0
4	4/21	8.5°C	4/22	8.5°C	2	0	0	0
5	4/21	8.5°C	4/22	8.5°C	1	0	0	0
6	4/21	8.5°C	4/22	8.5°C	12	0	0	0
7	4/21	8.5°C	4/22	8.5°C	4	0	1	0
8	4/21	8.5°C	4/22	8.5°C	7	0	1	0
9	4/21	8.5°C	4/22	8.5°C	4	0	0	0
10	4/21	8.5°C	4/22	8.5°C	2	0	1	0

TOTALS: 48 0 7 0

Average size: 100.3 mm STD: 7.7 Min-Max: 89-129 Count: 48 coho measured

COMMENTS:

Traps were placed in new project area.

Traps 1, 2 and 3 were placed in the fourth new pool (upper end of project).

Traps 4 and 5 were placed in the third new pool.

Traps 6 and 7 were placed in the second new pool.

Traps 8, 9 and 10 were placed upstream of control in the first new pool (furthest downstream).

DATE: 6/25/02-6/26/02

OBSERVER: Nettrin

In mid June it was determined by D. King that the flows in upper Mosley were inter-gravel and there were a significant amount of fry stranded in the pools. On 25 June starting at about 1400 I set out 28 minnow traps. They were mainly in the three pools between the old project and the upper most pool. Four were set in the four plunge pools below the upper most weirs.

I fished the lower pond (#1) two times on 25 June and ponds two and three once. On the 26 June I fished all three ponds twice.

Date	Pond #1						
	0+ Coho	1+ Coho	Trout	Cottid	Morts	Other	
6/25/02	318	20	4	7	2	0	
6/25/02	250	1	0	1	0	0	
6/26/02	100	1	0	0	0	0	
6/26/02	50	0	0	0	0	0	
Pond #2							
6/25/02	550	10	0	0	1	0	
6/26/02	406	1	1	0	0	0	
6/26/02	270	0	0	0	0	0	
Pond #3							
6/25/02	475	12	0	0	1	0	
6/26/02	325	2	0	0	4	0	
6/26/02	<u>215</u>	<u>00</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>1</u>	
	2959	57	5	8	8	newt 1	

Plus 75 fry from the four plunge pools for total of 3,034 0+ coho fry moved to the large pond in the original project.

DATE: 11/20/02

OBSERVER: King

No beaver activity. Everything is flowing. Observed juveniles throughout project and an adult coho at the lower weir.

GPS: (decimal degrees, Datum WGS84):

upper project - N47.79472, W124.94905, lower project - N47.79343, W124.95215

DATE: 12/18/02

OBSERVER: King

Observed 30+ spawners throughout project. There were five coho spawners on the new project site.

DATE: 4/25/03

OBSERVER: King

Project looks good. Flows are dropping. Observed lots of fry.

DATE: 8/26/03

OBSERVER: Nettrin

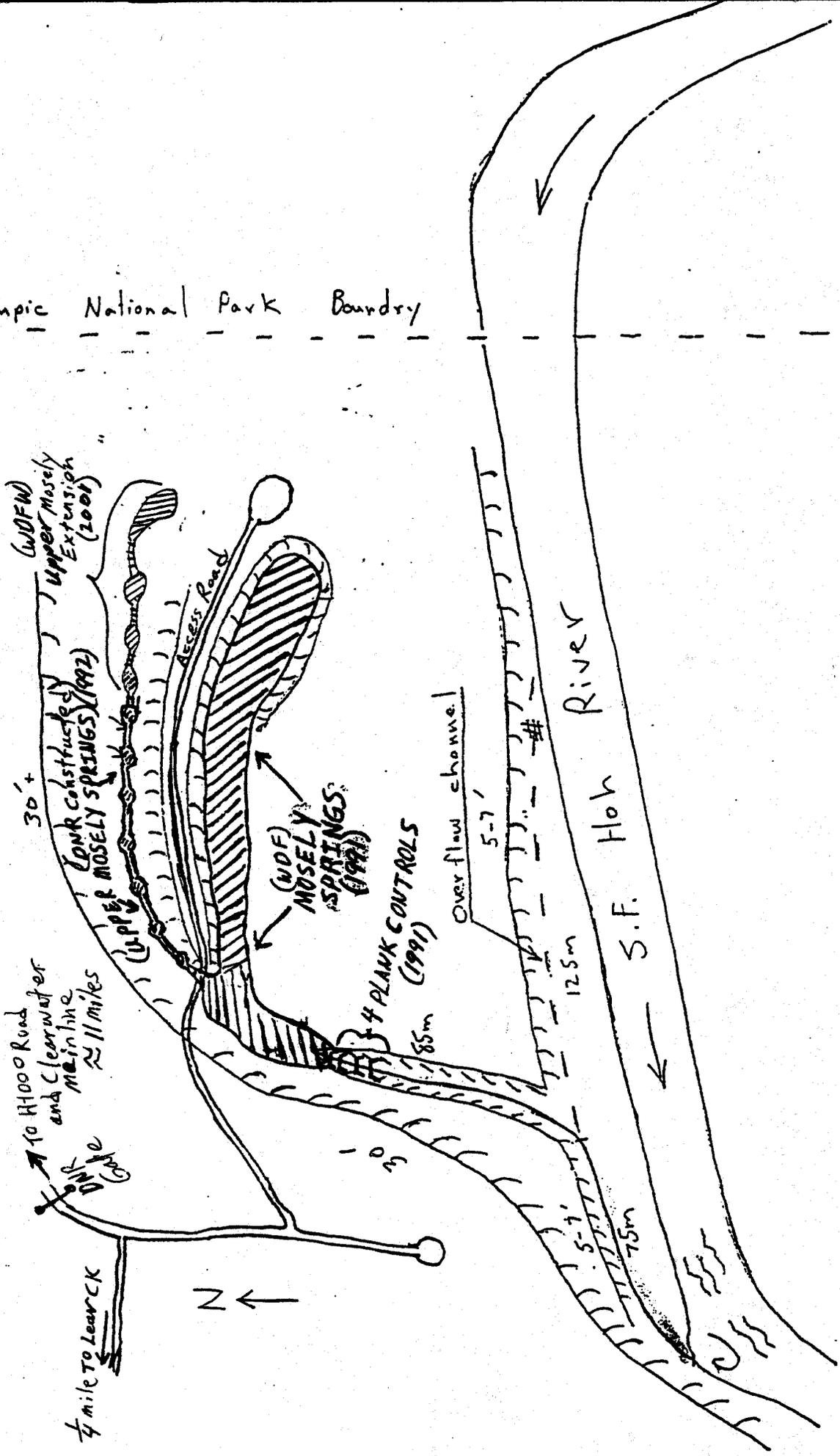
Removed excess gravel from above weirs. Planted willows along channel banks. As of 10/16/03, it is planned to add full spanning limbs and or saplings above spawning areas to provide cover for spawners.

DATE: 11/7/03

OBSERVER: King

Project looks good except for low flows though third pond, from the top. Massive slide just downstream of the S.Fork developed during the last large rain event. There is a large deposit of gravel downstream on the left bank.

SOUTH FORK HOH RIVER
SITE: SH-R2-03
NAME: MOSLEY SPRINGS
REVISED MAP 2001



SOUTH FORK HOH RIVER
SITE: SH-R2
OVERVIEW MAP

