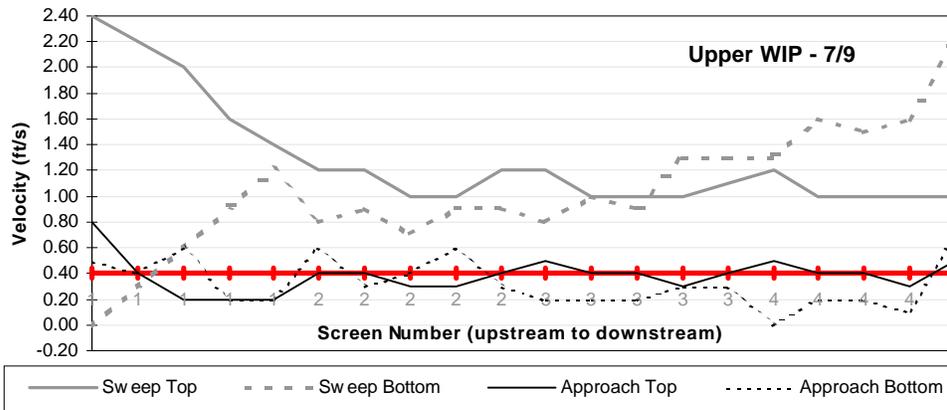
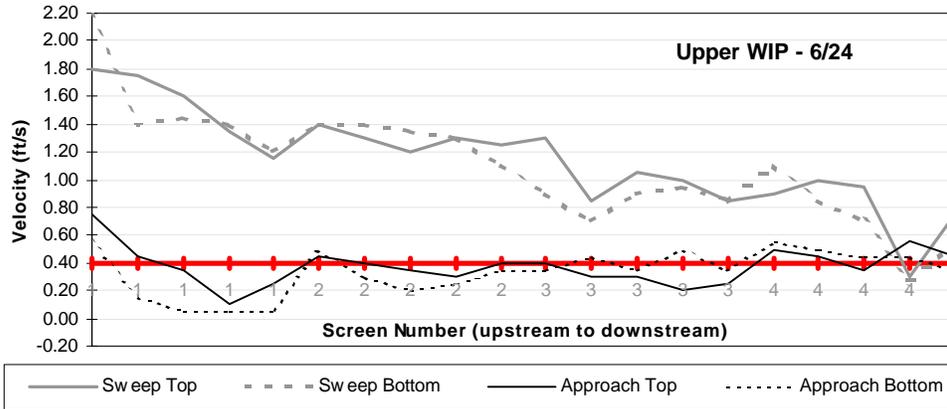
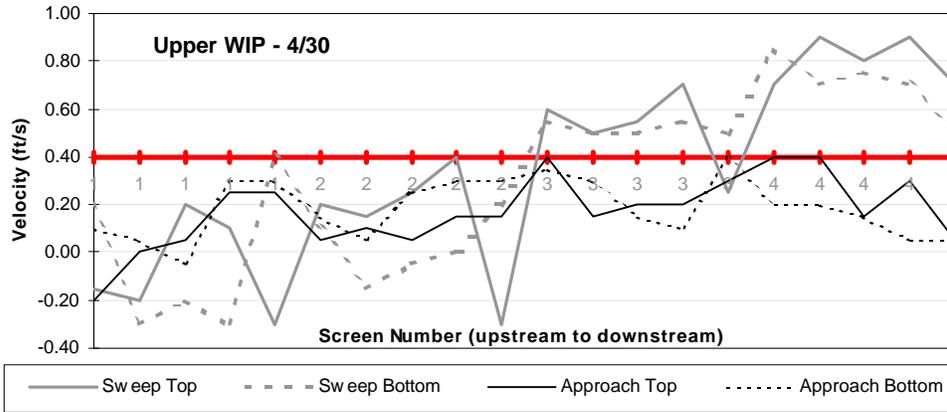
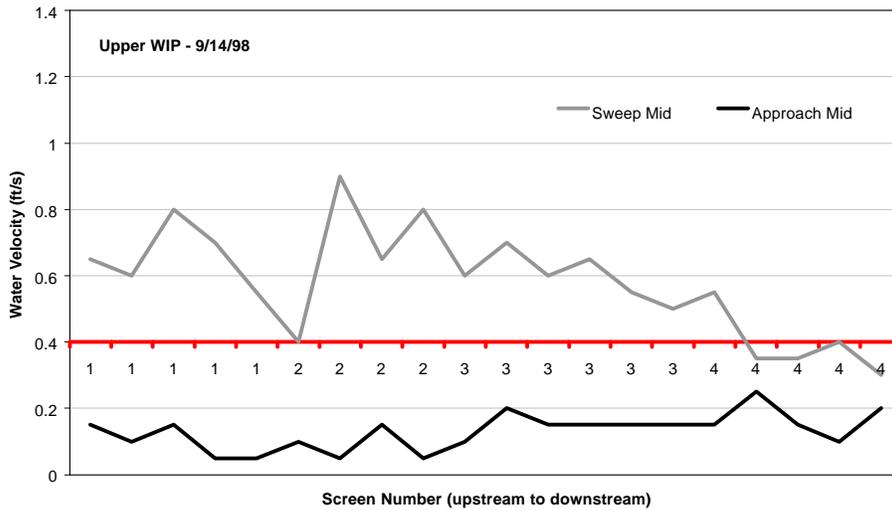
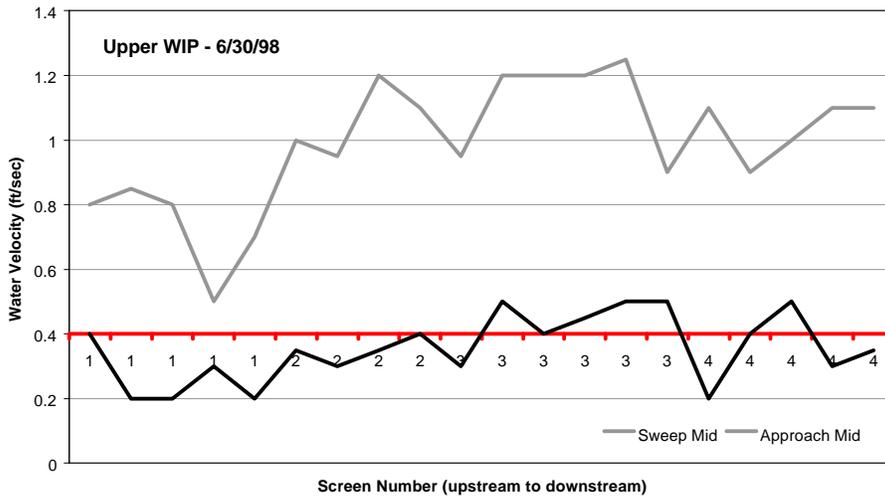
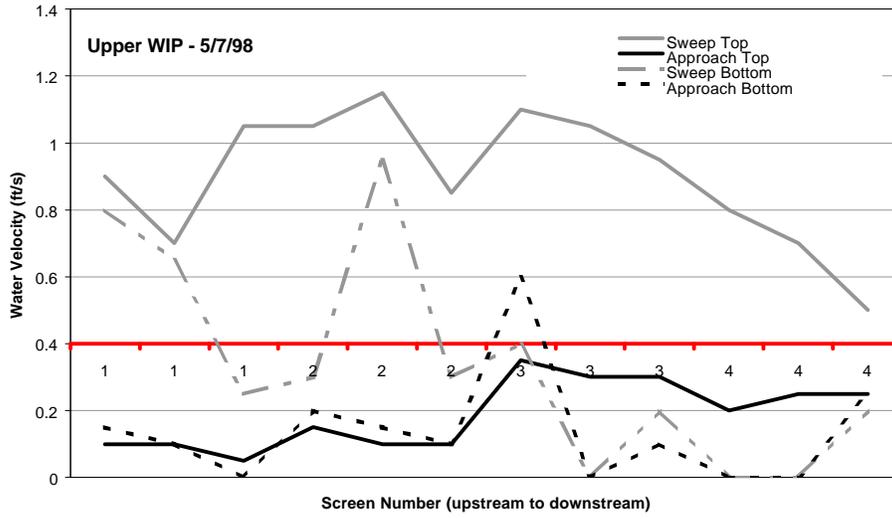


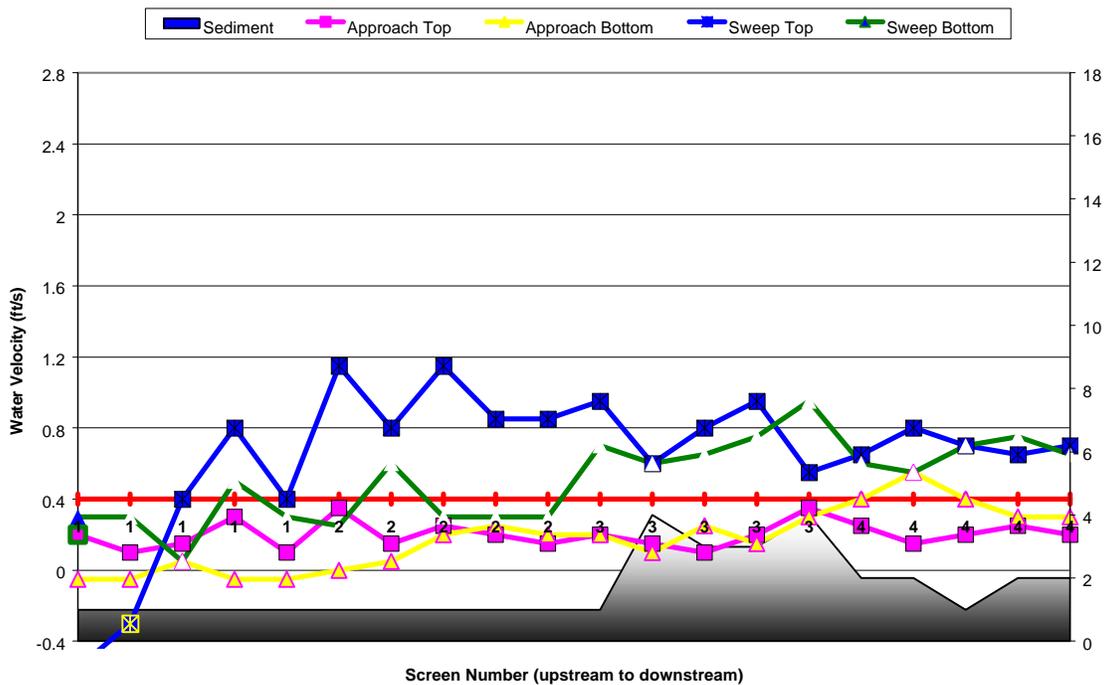
Water Velocities: Upper WIP

1997

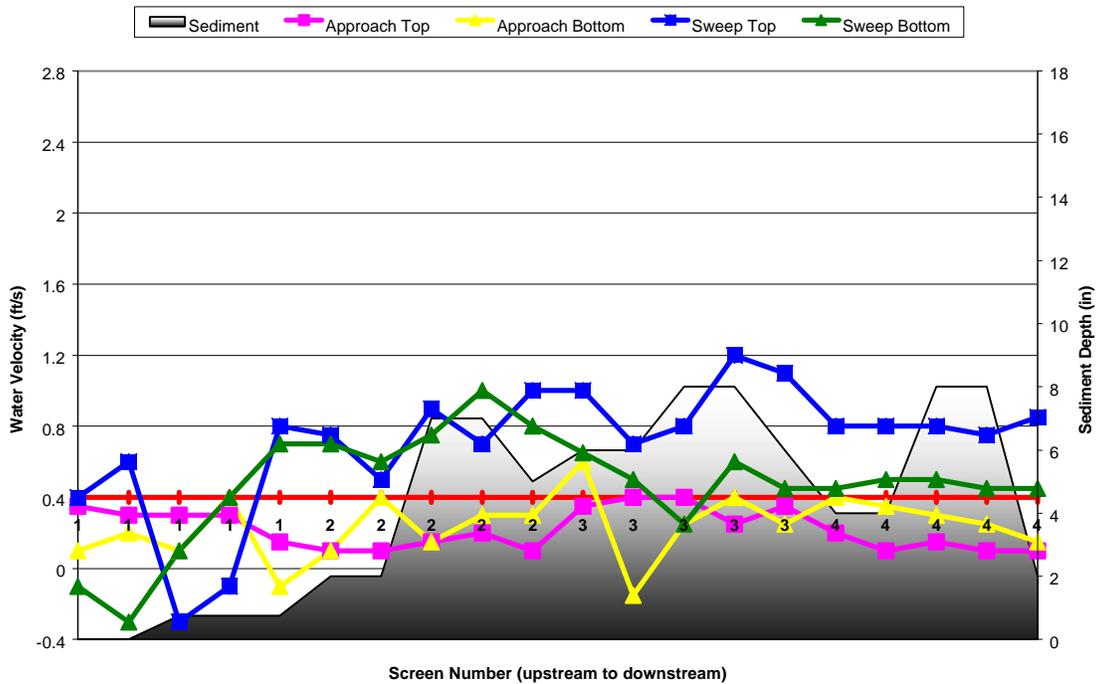




Upper WIP - May 12, 1999



Upper WIP - July 15, 1999



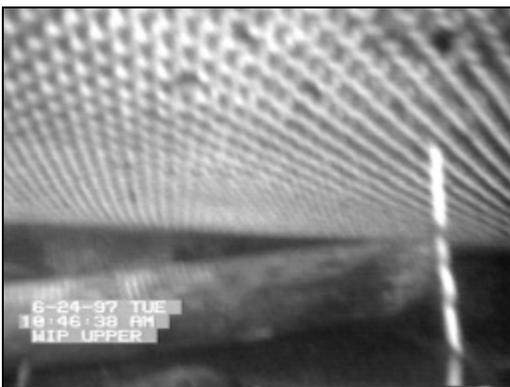
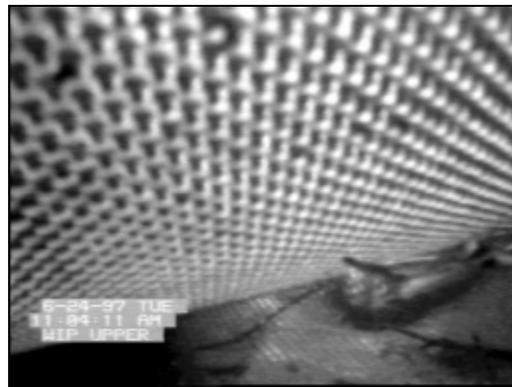
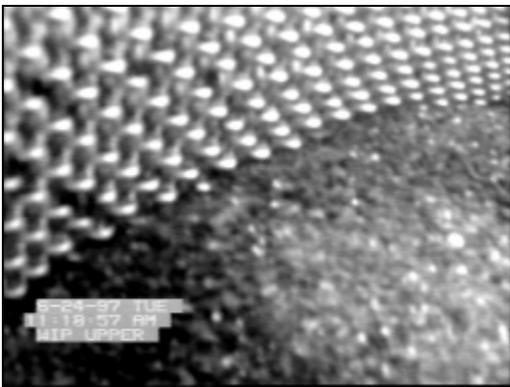
General Observations: Upper WIP

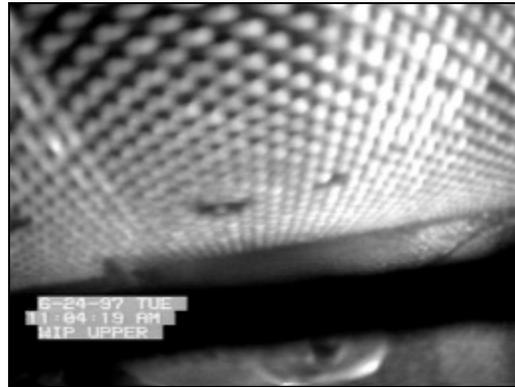
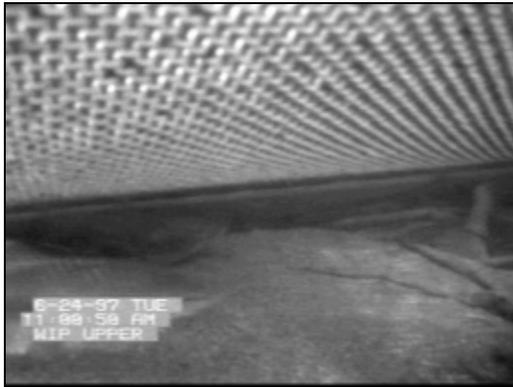
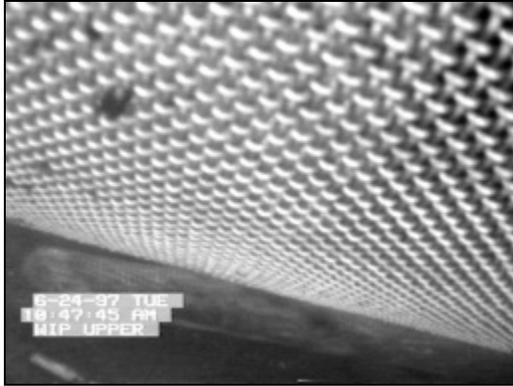
Date	Upper WIP 4/30/97	Upper WIP 6/24/97	Upper WIP 7/9/97	Upper WIP 8/12/97	Upper WIP 5/7/98	Upper WIP 6/30/98	Upper WIP 9/14/98	Upper WIP 5/12/1999	Upper WIP 7/15/99
Staff Gages?	forebay=2.0 aftbay=1.96 headgates=3.5	forebay=1.78 aftbay=1.72 canal_entrance=1.43	forebay=1.95 aftbay=1.85 canal=2.5		yes	forebay=1.9 aftbay=1.85	forebay=1.9 aftbay=1.85	forebay=19.98 aftbay=18.98 canal=15.00	forebay=2.0 aftbay=1.84 canal=1.54
Submergence Marks?	no	no	no		yes	no	no info	no	no
Stoplogs?	no	no	no		yes	yes	yes on all 4 drums, but at different heights for each one. #1=3boards to water level; #2=3 boards somewhat submerged; #s3&4=3 boards well above water level	yes	yes
Louvers?	NA	NA	NA		NA	NA	NA	NA	NA
Head Loss?	no info	1/2"	1"		no info	0.5"	no	no	No. 3/4"
Screen Material Condition	good	new and clean	good		no info	good	Screens 1 & 4 have clean parts while the rest are covered in brown algae.	Scr.1 brown w/diatoms. Scr.2&3 clean. Scr.4 patches w/diatoms.	Clean.
Seal Condition	good	new-good	good		no info	good	Lood good (sides). Can't see most of the bottom because of the silt & sticks.	good	good
Drums Turning Evenly?	yes	yes	yes		Yes, but the on/off switch to screen 3 wasn't working. Motors for Screens 1&2 are loud.	yes	Yes, though Screen 2 is very loud.	yes	yes
Debris Anywhere?	some leaf material and small twigs at bypass entrance.	yes, underwater in front of the screens there are branches, twigs, and silt	silt & sticks in forebay		weeds in the forebay and some woody debris.	woody material in front of bottom seals. 11" silt in bypass entrance.	only silt	No.	No.
Cleaning System Working?	yes	yes	yes		no data	yes	Yes, though there are some algae, sticks & silt present.	Yes.	Yes.
Submergence (% of 48")	83.3	77.1	81.3		84.0	81.3	88.5	79%	
Flow over Weir? How much?	yes, 10 1/2"	yes, 12 1/2"	yes, 14"		yes	Yes, 10"	No - some going under or through cracks	Yes. 10"	Yes. 10"
Gage to Measure Weir Crest?	no	no	no		no data	yes	no	no	no
Weir Full Open? If not, how many inches to go?	yes	yes	yes		No, 2" to go	No, 1" to go	no info	yes	yes

General Observations, continued

Date	Upper WIP 4/30/97	Upper WIP 6/24/97	Upper WIP 7/9/97	Upper WIP 8/12/97	Upper WIP 5/7/98	Upper WIP 6/30/98	Upper WIP 9/14/98	Upper WIP 5/12/1999	Upper WIP 7/15/99
Water Running Freely behind Weir?	yes	yes, but slow	yes		It's backed up from high stream level, but there's good flow.	yes	It's backed up because the bypass is blocked off with wooden boards at the entrance	yes	yes
Depth of water in outfall pipe	pipe is submerged	pipe is submerged	pipe is submerged		pipe is submerged by 29 inches.	pipe is submerged	only a fast trickle is coming out	pipe is submerged	pipe is submerged
Outfall Running Smooth?	yes	yes	no, backed up a little.		yes	yes	Yes, it's just not much	yes	yes
Debris at End of Pipe?	some small/med branches floating on water surface, but not blocking the pipe	little pieces of floating debris on the surface	yes, there are rocks and boulders at the outfall creating a pool		no	no	no	no	no
Discharge Area ≈ 1 ft?	yes	yes, BUT it slopes up to the river and is only 8" deep at high water...when water levels drop fish won't be able to reach the river	yes, BUT it slopes up to the river and is only 3 1/2" deep at high water...when water levels drop fish won't be able to reach the river		yes	yes	No - low water would make it hard for fish to pass	yes	Yes. Channel carved out for passage, rocks put in to keep gravel out.
Silt	no info	lots of silt. Screen #1=2"; Screen #2=16-19"; Screen#3=no info; Screen#4=2"	Screen #1-sand covers seal; Screen #2-upstream end of seal covered with silt, woody debris also present; Screen #3-trash and logs; Screen #4-sticks and a fish		Lots of mud (in the forebay & some in front of the screens - 1,3,&4 at least).	About 10" of silt in front of all 4 screens - often as high as the bottom seal. Woody material also in front of all 4 screens. Some fish seen in front of screens 3 & 4.	Lots of debris and ~12" of silt & woody material in front of screens. Generally couldn't see the bottom seal.	Sed. of 4" at 3&4. 1" at 1 and none at 2.	Silt 6-7" at 2 and 4, maybe up to 12" at 3.
Comments	no video	1 fish observed in front of Screen #3	observed 2 fish at the bypass outfall 2 1/2-3" long. Teachers moved rocks at outfall and increased flow there. Water levels in the forebay dropped 6" as a result. Fish in front of screen #4 too.	Notes in logbook indicate that on 7/21 dam boards were placed at the bypass entrance to block it off; on 8/11 porosity boards were put behind the screens.	High flows and turbid water. Woody debris in front of Screen 3. A 12" stoplog was found in the fish bypass and removed. The woody debris in front of screen 3 seemed to cause a "hot spot".	Lots of cows foraging for fish in the creek.	none.	Scr.1 small gaps at end of screen. Stick piles at 3&4.	Could be gap in screen 1, too much debris in 3/4 to see seal. May be a wooden weir.

1997 Photos: Upper WIP





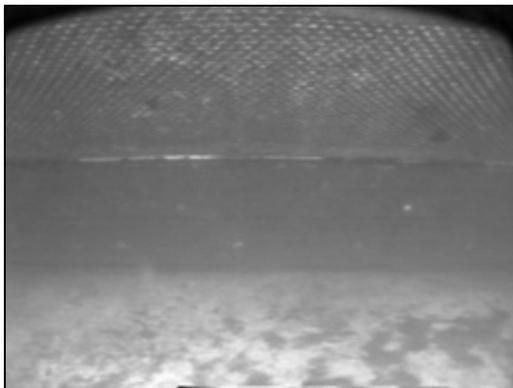
1998 Photos: Upper WIP



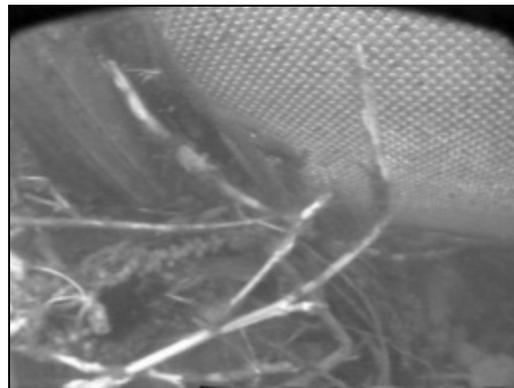
1999 Underwater Video: Upper WIP

Screen Site	Date (Tape #)	Location (screen # & VCR counter)	VCR Counter	Notes	Photos	Descriptor		
Upper WIP	5/12/99 (1)	1 0:16:09	0:17:25 0:18:01	small sand pile at corner	0:19:13	G1		
		2 0:20:43	0:18:47 0:21:56	possible gap gap?; some possible reflection from 30 inches in to corner				
		3 0:23:34	0:25:24	very small gap?				
				small sediment pile				
			0:26:26	large sand pile and sticks start and go to corner; can't see seal			0:26:40	S1
			0:26:47	large sticks, over seal and drum			0:27:07	D1
			0:27:09	large stick pile in corner				
		4 0:27:51	0:28:19 0:29:00	stick & sand piles across sand covering seals			0:29:03	S2
Upper WIP	7/15/99 (2)	1 1:30:02	1:30:13	gapping in screen sand up to seal,				
		2 1:31:05	1:31:46 1:33:20	possible gap in corner debris up to screen				
		3 1:34:26	1:35:34	large log, debris across screen				
		4 1:37:04	1:38:33	log and debris in corner, debris across screen				
		Bypass 1:39:15	1:40:14	wooden boards in place of weir				

1999 Photos: Upper WIP



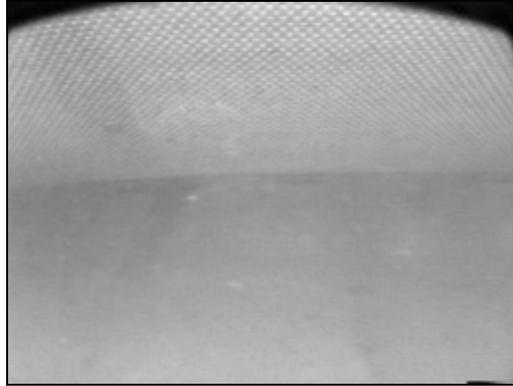
G1



D1



S1



S2

