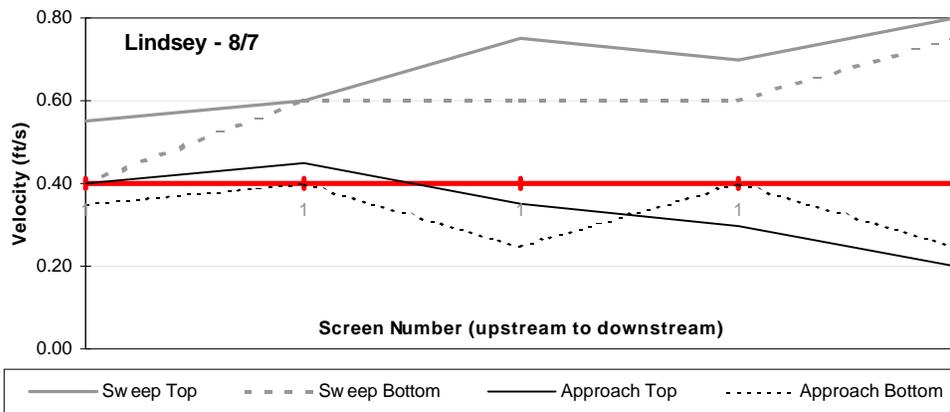
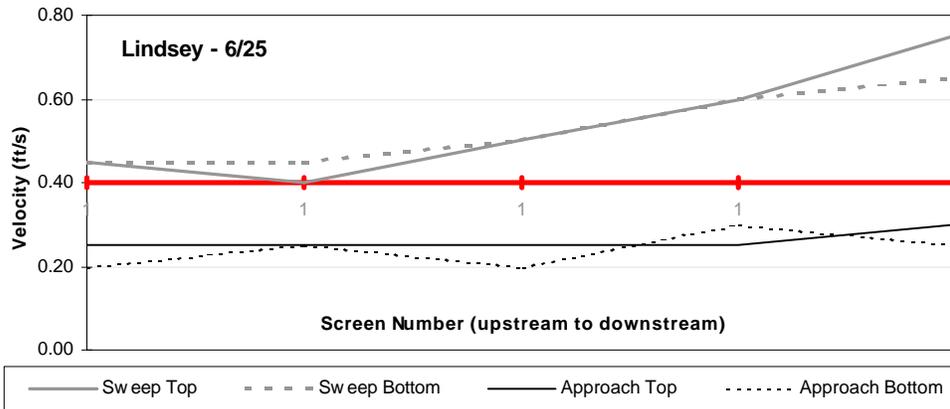
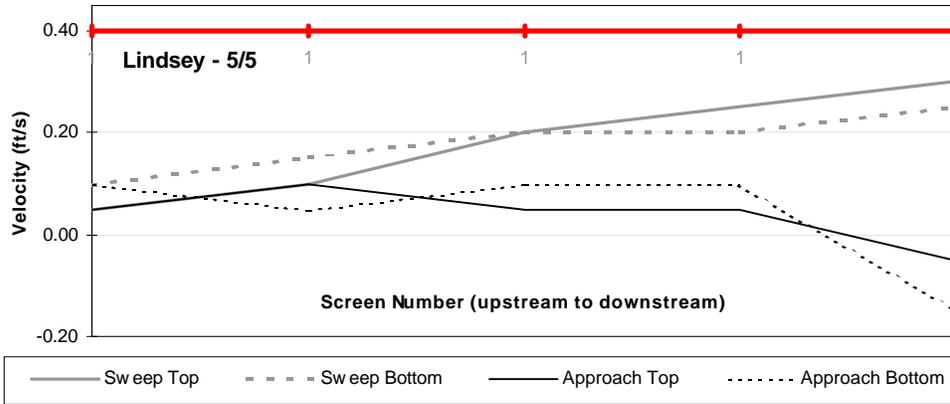
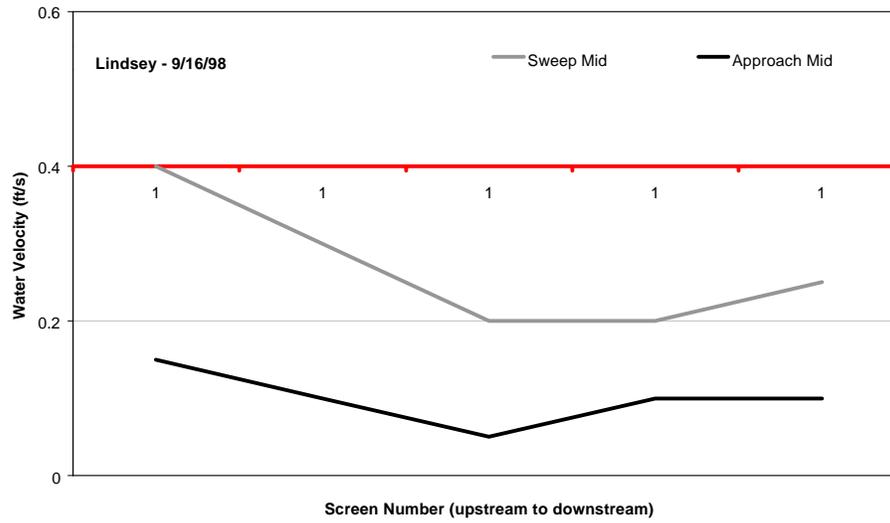
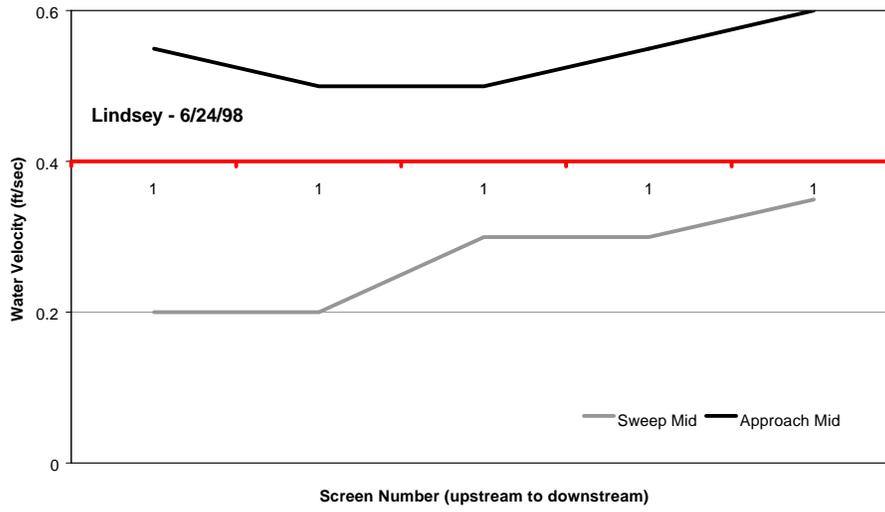
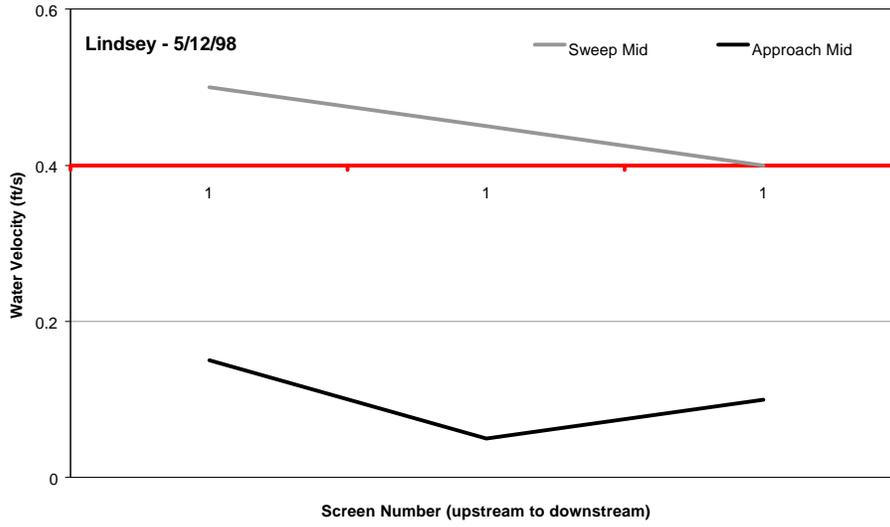


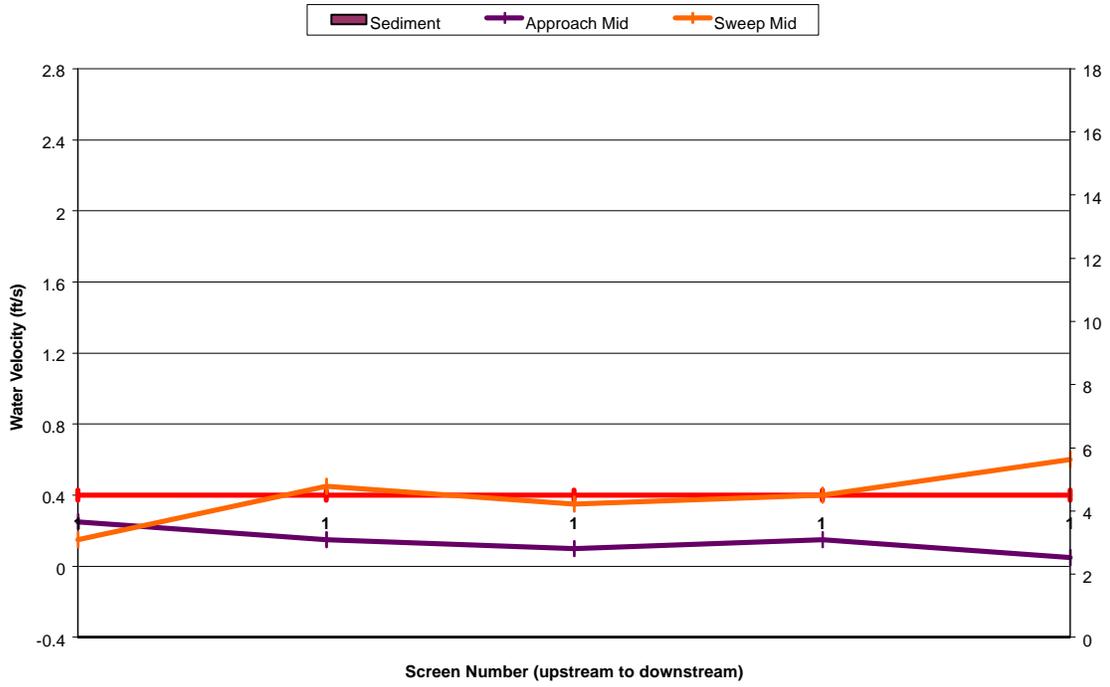
Water Velocities: Lindsey

1997

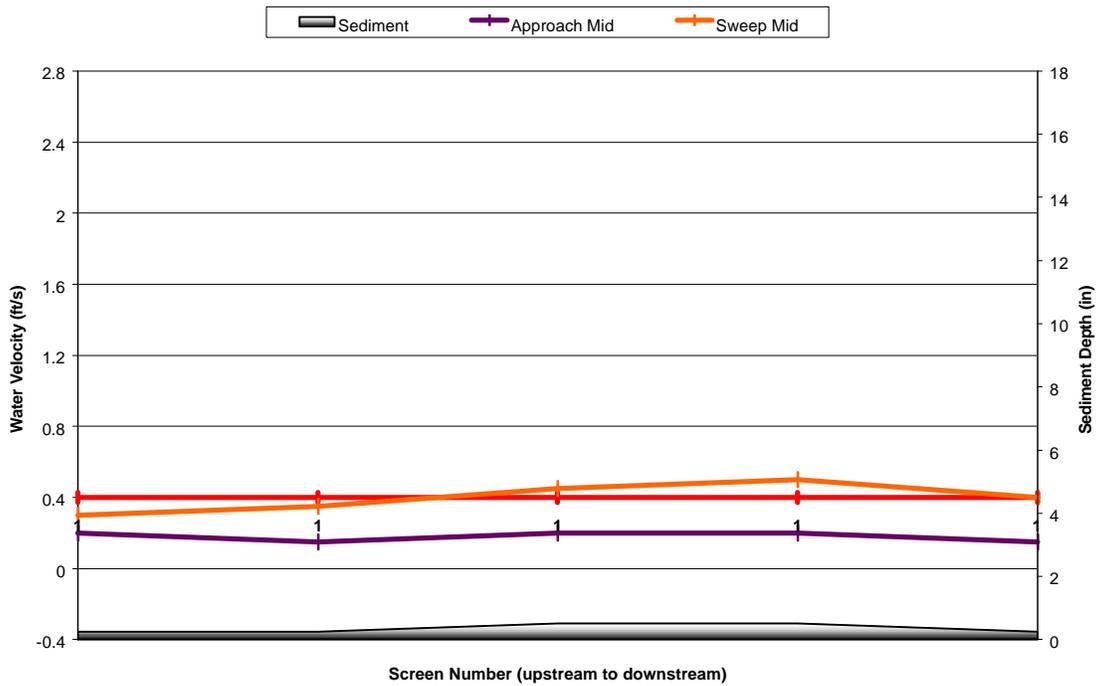




Lindsey - May 14, 1999



Lindsey - July 20, 1999



General Observations: Lindsey

Date	Lindsey 5/5/97	Lindsey 6/25/97	Lindsey 8/7/97	Lindsey 5/12/98	Lindsey 6/24/98	Lindsey 9/16/98	Lindsey 5/14/1999	Lindsey 7/20/99
Staff Gages?	canal=1.55	canal=1.6	canal=1.7	canal=1.7, pole tilted	canal=1.72 (Pole tilted, so reading is not accurate)	canal=2.65 (pole tilted)	canal=1.75 (board gauge leaning)	canal=2.78 (crooked)
Submergence Marks?	yes, 70 and 85	yes, 70 and 85 (water is over the 85 line)	no info	yes, every 10 and also at 85	yes, at 70, 80, 85, and 90.	yes, but very difficult to read.	yes, down to 60	yes
Stoplogs?	yes (at canal entrance; not directly behind the screen)	yes (at canal entrance; not directly behind the screen - 3' under water)	yes (at canal entrance; not directly behind the screen - 2-4" under water and about 5' from the screen)	yes, 2" of water over top	yes, 4" of water over top	yes at canal entrance; water is 2.5" above the stoplog.	yes	yes
Louvers?	NA	NA	NA	NA	NA	NA	NA	NA
Head Loss?	no	no	1/2"	no	Yes, 1"	Yes, 1"	No. 1/2"	No. 3/4" more behind then in front.
Screen Material Condition	new perf plate	new perf plate	new perf plate	no info	clean; no algae build up except under side seal area.	Clean except for some vertical brown stripes	good	Clean and shiny.
Seal Condition	good	good	good	no info	good from above	Good from above. Saw some caulking coming out and light coming through a seal in the video.	good	good
Drums Turning Evenly?	yes	yes	yes	yes	yes	yes	yes	Yes.
Debris Anywhere?	no	just lots of sediment in front of and behind the screen	yes, lots of silt in fore and aftbays	No	Mostly silt in forebay. Small sticks had been removed earlier and were in a pile near bypass entrance on land.	some silt, but not covering sill at all.	Twigs & leaves at forebay.	No. No trashrack.
Cleaning System Working?	yes	yes	except for silt	Yes	yes	No, the bypass weir should be open more to allow fish passage.	Yes.	Yes.
Submergence (% of 48")	88.9	86.0	87.5	~88% (but a real guess!!!)	90	86.1	86%	
Flow over Weir? How much?	yes, 10"	yes, 11"	yes, 11"	Yes, but only 2"	Yes, 11" over top of ramp, more underneath though as ramp is in flush position.	Yes, but only 0.25". Pine needles are building up at the lip of the weir.	Yes. 9.5"	Yes. 7"
Gage to Measure Weir Crest?	no	no	no	no	no	There is a yardstick nearby.	no	Yes. Old meter stick.
Weir Full Open? If not, how many inches to go?	yes	yes	yes	No. 9.5" to go	No. 5" to go	No. 14" to go	yes	No. 7"
Water Running Freely behind Weir?	yes	yes	yes	yes	yes	No, the water is backed up.	yes	yes
Depth of water in outfall pipe	pipe is submerged	pipe is submerged	3-5" of water; 9" of open space	pipe is submerged	pipe is submerged	pipe is submerged	7"	pipe is submerged
Outfall Running Smooth?	yes	yes	cavitating, running very fast	yes	Yes, some bubbles though so pipe is not full	There's not much flow.	yes	Yes. Lots of air bubbling out.

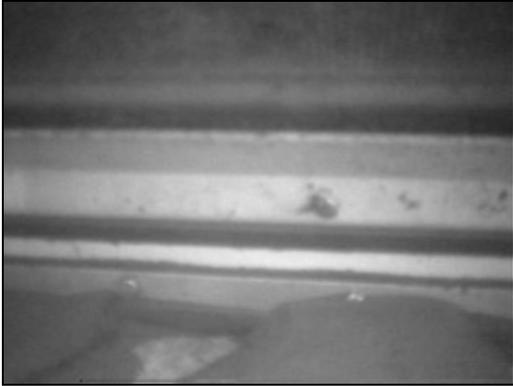
General Observations, continued

Date	Lindsey 5/5/97	Lindsey 6/25/97	Lindsey 8/7/97	Lindsey 5/12/98	Lindsey 6/24/98	Lindsey 9/16/98	Lindsey 5/14/1999	Lindsey 7/20/99
<b>Debris at End of Pipe?</b>	no	no	no	no	no	No, some rocks are piled at the end of the wingwalls, but there's plenty of room for fish to get around.	no	no
<b>Discharge Area ≈ 1 ft?</b>	yes	yes	no; only 8-11" of water. Rocks (big cobble) could be removed from around the outfall	yes	yes	yes	yes	yes
<b>Silt</b>	no info	upstream=13" sediment; downstream and in bypass=6" sediment	huge hump of sand in the aftbay; maybe up to 10" of silt in forebay	6" deep off the sill at upstream end. ~2" on top of the sill in the middle. No silt noted downstream or in the bypass. Most of the forebay had been cleared of silt and looked good.	1-2" of silt buildup across the screen.	0-1" of silt in front of the sill. The only "0" was at the spot nearest the bypass.	none	Only about 1/4".
<b>Comments</b>	no video	one fish zipped by in the video	fish: 7" dead rainbow trout on ground near bypass; big fish in forebay, smaller fish in forebay were 2 species with parr marks.	They did some planting along the shore by the outfall and bank stabilization. Headgate structure looks new.	Creek is very high	Saw lots of dace (?) with a dark lateral stripe inside the drum! Saw what looked like several juvenile chinook (~3-5" long) at the bypass outfall. Saw one swim UP the bypass pipe.	Bypass clear. A few weeds in bottom seal.	White caulking at bottom seems to be missing in places.

1997 Photos: Lindsey



1998 Photos: Lindsey



AVG



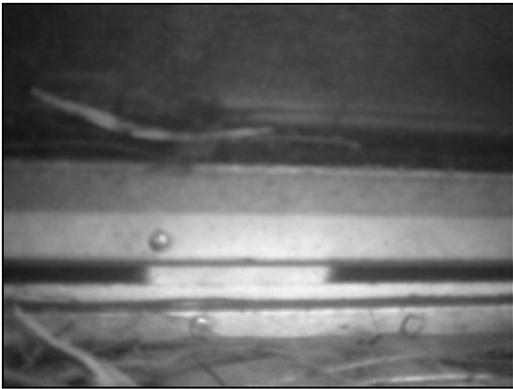
Caulking



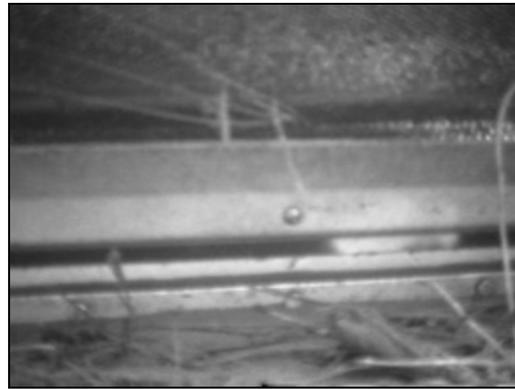
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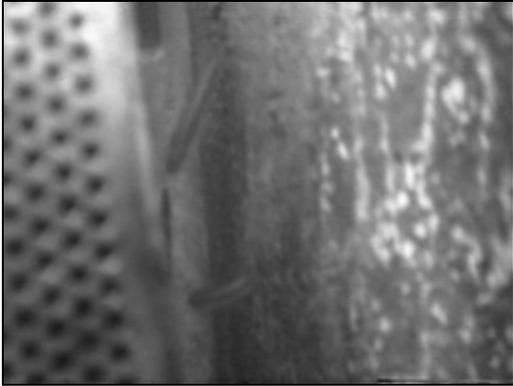
Tiny gap?



Caulking



Caulking



Small Fish



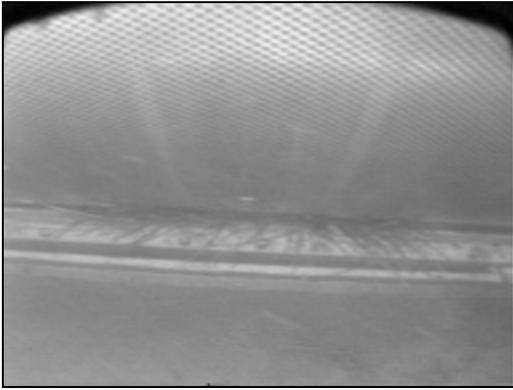
light through a tiny gap?



light through a tiny gap?

1999 Underwater Video

Screen Site	Date (Tape #)	Location (screen # & VCR counter)	VCR Counter	Notes	Photos	Descriptor
Lindsey	5/14/99 (1)	1	1:06:48	sediment along bottom with some debris	1:07:09	D1
			1:07:06	grasses stuck in seal		
		Bypass	1:07:47	twigs in corner		
		Bypass	1:09:01	some sticks at bottom		
Lindsey	7/20/99 (2)	1	1:41:58	white caulking below screen missing		
		Bypass				
		1:43:22				



D1