



Where EPA is doing their dredging

Nancy Robertson, Cornell Cooperative Extension, 4H Homeschool Group, 7 students K2-7th and 4 adults 43°00.044' N & 73°51.078'W



Location: Kayak launch, Hudson Crossing Park, Lock 5 in Schylerville, Saratoga Co. Area: Old industrial site now used for recreation – waterfalls, boating, fishing Surrounding Land Use: urban/residential several houses on the site; 85% forested; 1% beach, Industrial/Commercial dredging downriver, lots of barge activity Sampling Site: Small beach area, pier and lock, construction gravel in the area and covered in vegetation Plants in water: yes - <5% has water celery Plants in area: oak, sumac, honeysuckle Water Bottom: sandy, muddy, bedrock nearby Water depth: 3-5 ft.

ITEM	Time	Reading 1	Reading 2	Comments
Physical				
Air Temperature	11:45 AM	17.2 °C 63 °F	Noted water is warmer	
Wind Snood		Beaufort #1	than the air	
Wind Speed Cloud Cover				
Weather today	Partly cloudy to mostly cloudy No rain today			
Weather past few days	Heavy rain on Monday, temps. In the 60-70°s range Tues & Weds			
Water Temperature	11:00 AM	17°C 62 °F		
Water surface	Water calm			
Turbidity - secchi	12:00 PM	.75 meter		
Chlorophyll	11:00 AM	0.5		
Chemical				
pH – color drop kit	11:15 AM	7.4 7.4		Average 7.4
Salinity – quantabs	10:30 AM	.06*	*below conversion scale	
Dissolved Oxygen -	11:15 AM	8.66 ppm	17° C	80% saturation
digital titration		9.38 ppm		
Flow	Secs/1524 cm	Cm/sec	Knots	North/South
We measured a stick tra bridge we have used in the middle. We measur waterfalls above and bri 50 foot run – convert-	the past. The ed the current	river is "crowned t in the deep chan	l" here – very sha nels to either side	allow and fast in
1524 cm/avg. time recorded to get avg. cm/sec	27 sec 26 sec	56.4 cm/sec	1.1 kts	South
Core	Length	Abundant	Common	Rare
11:30 AM – 2-3 ft.	12 cm –	mud	Freshwater	Clay
deep water – at small	oxidized		mussels in a	Sand
beach – water celery	top - 2-3		mound	Gravel
nearby	cm		(perhaps something's feeding spot)	
Shipping	All day Tugs and	Heading both ways	Part of the dredging	Moving river sediment &
	Barges		operation	sand
Other Items	Blue heron, Vs of geese (~30), pileated woodpecker's head			