

Ellison Creek Reservoir (unclassified water body)

Segment: 0404A Cypress Creek Basin

Basin number:	4
Basin group:	A
Water body description:	From the Morris County Dam up to normal pool elevation near Lone Star in Morris County (impounds Ellison Creek)
Water body classification:	Unclassified
Water body type:	Reservoir
Water body length / area:	1,516 Acres
Water body uses:	Aquatic Life Use, Contact Recreation Use, Fish Consumption Use

Additional Information: The aquatic life, contact recreation and fish consumption uses were not assessed.

A concern for toxicity in sediment to aquatic organisms in the southeast part of the reservoir near the Lone Star Steel facility has been established with laboratory tests measuring the effect of sediment elutriate (water extraction) on test organisms and elevated levels of metal contaminants in sediment. The TDH and TCEQ have planned a survey of fish in the reservoir for the spring of 2005 to determine if there is any risk from contaminants in fish tissue to humans who eat fish from the lake. The TCEQ will also conduct a survey of the entire lake for sediment toxicity and contaminants in 2005.

2004 Concerns:			
Assessment Area	Use or Concern	Concern Status	Description of Concern
Barnes Creek arm	Sediment Contaminants Concern	Concern	metals in sediment
Barnes Creek arm	Narrative Criteria Concern	Concern	metals in sediment
Entire reservoir	Fish Tissue Contaminants Concern	Concern	PCBs in fish tissue
Southeast part of the reservoir near the spillway	Sediment Contaminants Concern	Concern	arsenic in sediment
Southeast part of the reservoir near the spillway	Sediment Contaminants Concern	Concern	cadmium in sediment
Southeast part of the reservoir near the spillway	Sediment Contaminants Concern	Concern	chromium in sediment
Southeast part of the reservoir near the spillway	Sediment Contaminants Concern	Concern	copper in sediment
Southeast part of the reservoir near the spillway	Sediment Contaminants Concern	Concern	lead in sediment
Southeast part of the reservoir near the spillway	Sediment Contaminants Concern	Concern	mercury in sediment
Southeast part of the reservoir near the spillway	Sediment Contaminants Concern	Concern	nickel in sediment

2004 Concerns:			
Assessment Area	Use or Concern	Concern Status	Description of Concern
Southeast part of the reservoir near the spillway	Sediment Contaminants Concern	Concern	zinc in sediment
Southeast part of the reservoir near the spillway	Narrative Criteria Concern	Concern	acute toxicity in sediment to aquatic organisms
Southeast part of the reservoir near the spillway	Narrative Criteria Concern	Concern	metals in sediment

Monitoring sites used:		
Assessment Area	Station ID	Station Description
Barnes Creek arm	14994	ELLISON CREEK RESERVOIR IN MID BARNES CREEK ARM APPROXIMATELY 2 MI. DOWNSTREAM OF US 259
Entire reservoir	14473	ELLISON CREEK RESERVOIR AT DAM WEST OF LONE STAR STEEL
Entire reservoir	14994	ELLISON CREEK RESERVOIR IN MID BARNES CREEK ARM APPROXIMATELY 2 MI. DOWNSTREAM OF US 259
Southeast part of the reservoir near the spillway	14473	ELLISON CREEK RESERVOIR AT DAM WEST OF LONE STAR STEEL