

Lake Sulphur Springs Dam and Lake Sulphur Springs

OWNER

Sulphur Springs Water District.

ENGINEER

Freese, Nichols and Endress.

LOCATION

On White Oak Creek in Hopkins County, 2 miles north of Sulphur Springs.

DRAINAGE AREA: 66.4 square miles

DAM

Type	Earthfill
Length	6,232 ft (includes service spillway)
Maximum height	44 ft
Top width	20 ft
Top elevation	474.0 ft above msl

SPILLWAY (emergency)

Location	Left end of the dam
Type	Uncontrolled
Crest length	275 ft
Crest elevation	462.0 ft above msl
Side slope	1.687% on left and 2.00% on right

SPILLWAY (service)

Location	Near center of the dam
Type	Concrete ogee
Crest length gated (net)	45.0 ft
Crest elevation gated	441.0 ft above msl
Control	Four vertical gates
Crest length ungated (net)	20.0 ft
Crest elevation ungated	457.0 ft above msl
Farm to Market Road 2285 bridge over the stilling basin.	

OUTLET WORKS

Water is pumped from the lake for municipal water supply.

STATE AUTHORIZATION

Permit No. 2411A (Application No. 2644A), January 28, 1971, authorizes relocation of the dam and to increase the elevation of the spillway and normal water surface to elevation 457.0 feet above mean sea level. The capacity is to be increased from 11,900 to 14,160 acre-feet. The permit allows diversion of 7,800 acre-feet of water per annum for municipal purposes and the use of the impounded water for recreational purposes.

RESERVOIR DATA

Capacity	14,160 acre-feet at elevation 457.0 ft above msl
Area	1,340 acres at elevation 457.0 ft above msl

GENERAL

Construction started	November 11, 1971
Deliberate impoundment began	July 24, 1973
Estimated completion	January 1974
General contractor	Elm Fork Construction Company
Estimated cost of the dam	\$1,611,000

