



SUPPLEMENTARY MATERIAL TO
**Temporal and spatial distribution of physicochemical
parameters and water quality indices in an oligotrophic
dam lake: A case of Maksutlu Dam Lake, Sivas, Türkiye**

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Maksutlu Dam Lake was constructed for irrigation purposes on the Maksutlu Stream, upstream of Maksutlu village in the Şarkışla district of Sivas Province. The dam, which is of the clay-core homogeneous fill type, serves irrigation needs. The dam lake has a volume of 2,950,000 m³ and irrigates an area of 400 hectares. The dam's height from the riverbed is 19 m. At the normal water level, the lake's volume is 2.95 hm³ and its surface area is 0.42 km².¹ Three stations that best represent the characteristics of the dam lake were selected for this study. Information about these stations and their characteristics is presented in Table S-I.

TABLE S-I. Coordinates and Characteristics of the Stations

Stations	Coordinates	Characteristics of Stations
1	39° 22' 42" N 36° 29' 39" E	It is just behind the dam embankment.
2	39° 22' 48" N 36° 30' 04" E	This station is located opposite the dam embankment, very close to agricultural areas.
3	39° 22' 50" N 36° 29' 54" E	It was selected from a part of the dam lake close to the picnic areas.

The map of the study area and sampling locations is given in Fig. S-1.

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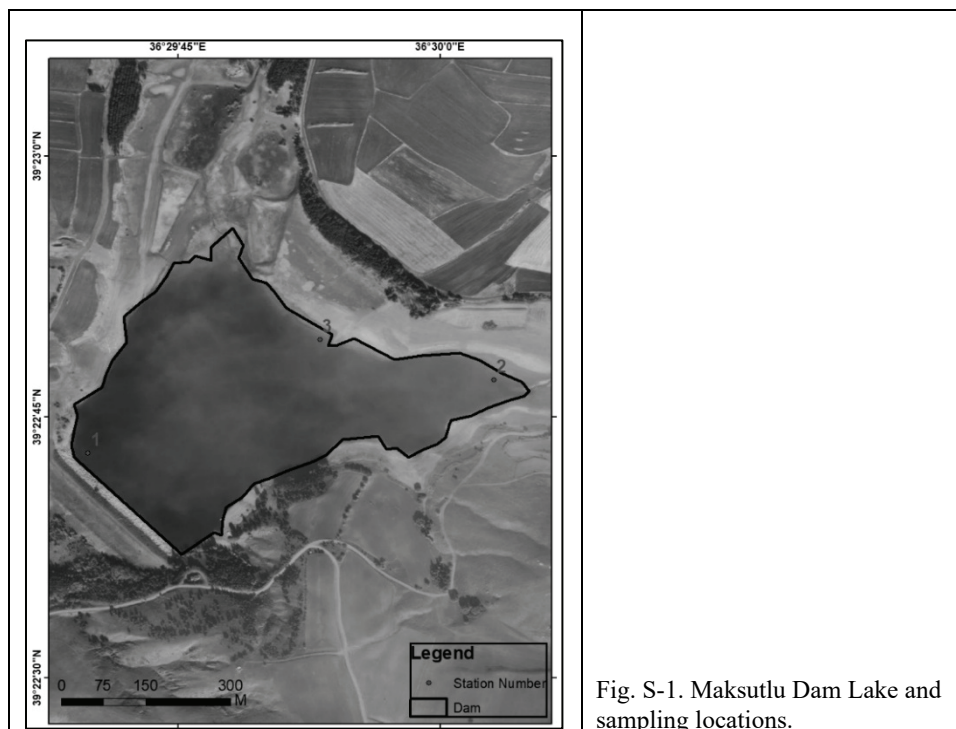


Fig. S-1. Maksutlu Dam Lake and sampling locations.

REFERENCES

1. *Sivas Province Environmental Status Report*, Republic of Turkey Sivas Governorship Provincial Directorate of Environment, Urbanization and Climate Change, Sivas, 2023.