

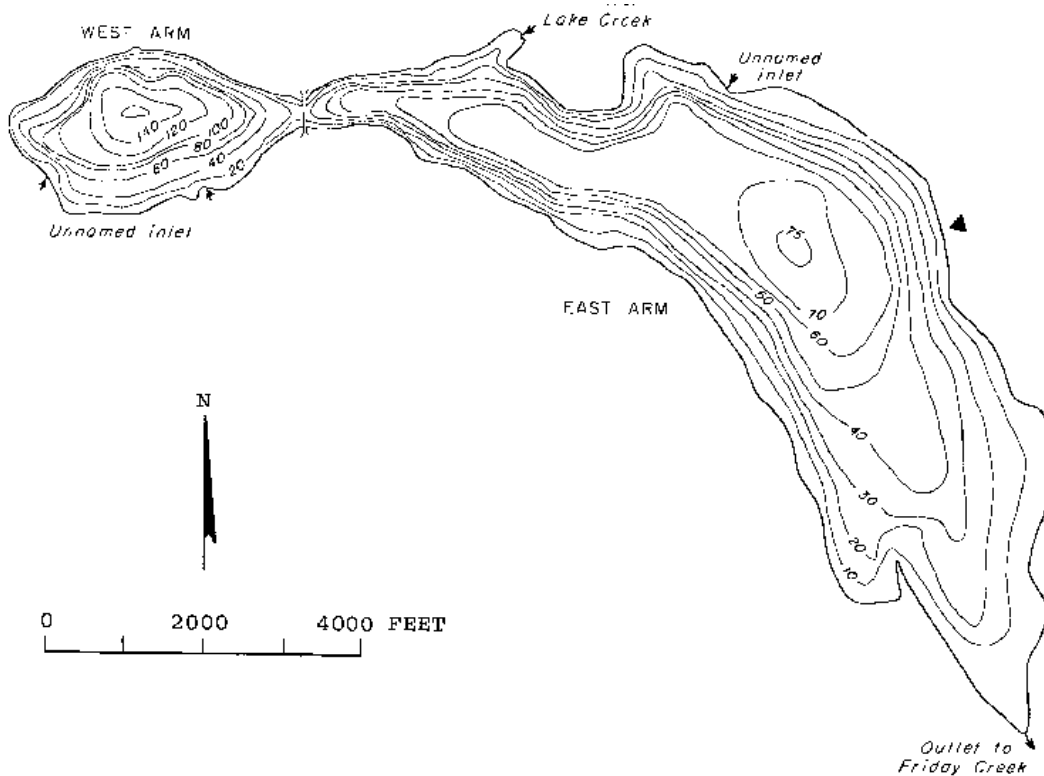


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SAMISH (WEST ARM) LAKE -- WHATCOM COUNTY: 1997

Lake Samish is located 6.5 miles southeast of Bellingham. It is comprised of two basins which are connected by a narrow strait. The west arm is a small deep bay, and the east arm is a larger shallow bay. There are several small inlets that flow into the lake, including Lake Creek and Barnes Creek. Lake Samish drains via Friday Creek to the Samish River.

Size (acres)	130
Maximum Depth (feet)	140
Mean Depth (feet)	71
Lake Volume (acre-feet)	9230
Drainage Area (square miles)	3.70
Altitude (feet)	273
Shoreline Length (miles)	1.8



Source of morphometric data: Water Supply Bulletins 42, 43, and 57.

VOLUNTEER-COLLECTED SECCHI DATA

Date (Y/M/D)	Temperature (C)	Temperature (F)	pH	Water Color	%Cloud Cover	Recent Rain	Wind	Secchi (ft)	Lake Ht (in)	Abbrev.	Comments
STATION 2											
97/06/18	20.0	68.0	6.5	Lt Green	0	Heavy	Breezy	20.0	268.6		
97/07/02	20.0	68.0	6.5	Lt Green	0		Calm	23.0	0.0		WATER LEVEL AT 268'4.25" ABOVE SEA LEVEL.
97/07/16	21.0	69.8	6.0	Lt Green	0	None	Calm	19.0	0.0		WATER LEVEL WAS 268.5 FEET ABOVE SEA LEVEL.
97/07/29	23.0	73.4	6.0	Lt Green	0	None	Breezy	20.0	0.0		WATER LEVEL WAS 268.23 FEET ABOVE SEA LEVEL. TOO MUCH DRIFT FOR 2ND READING.
97/08/13	25.0	77.0	6.0	Pea-green	1	None	Calm	14.8	0.0		
97/08/13	25.0	77.0	6.0	Pea-green	1	None	Calm	16.5	0.0		
97/08/28	23.0	73.4	6.0	Lt Green	100	Light	Breezy	15.0	0.0		WATER LEVEL WAS 267.93 FEET.
97/09/24	20.0	68.0	6.5	Lt Green	0	None	Calm	15.0	0.0		WATER WAS 268.08 FEET ABOVE SEA LEVEL.

LABORATORY RESULTS

Total Phosphorus	Total Nitrogen	Chlorophyll	Fecal Col. (colonies/100 mL)	Bacteria	Turbidity	Suspended Solids Total	Non-Volatile	Color
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Date	Strata (ug/L)	(mg/L)	(ug/L)	Site 1	Site 2	(NTU)	(mg/L)	(mg/L)	(Pt-Co)
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There are no LWQA Program chemistry data for this lake in 1997.

SUMMARY OF VOLUNTEER SURVEY

There was no survey response for 1997.

FIELD OBSERVATIONS OF ECOLOGY STAFF

There were no field observations recorded for SAMISH (WEST ARM) (WHATCOM) in 1997

TROPHIC STATUS

Estimated Trophic State:	Not Available
Mean Trophic State Index (Secchi):	36 (Oligotrophic)
Mean Trophic State Index (Total Phosphorus):	0 (Not assessed)
Mean Trophic State Index (Chlorophyll a):	0 (Not assessed)

SUMMARY AND EXPLANATION OF TROPHIC STATE ASSESSMENT

No summary analysis was performed for SAMISH (WEST ARM) (WHATCOM) in 1997

COMMENTS FROM 97/06/30 AQUATIC PLANT SURVEY

see Samish Lake (east arm) for data

Data collected and provided by Washington Department of Ecology's Lake Monitoring Program (Maggie Bell-McKinnon, phone 360-407-6124).

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