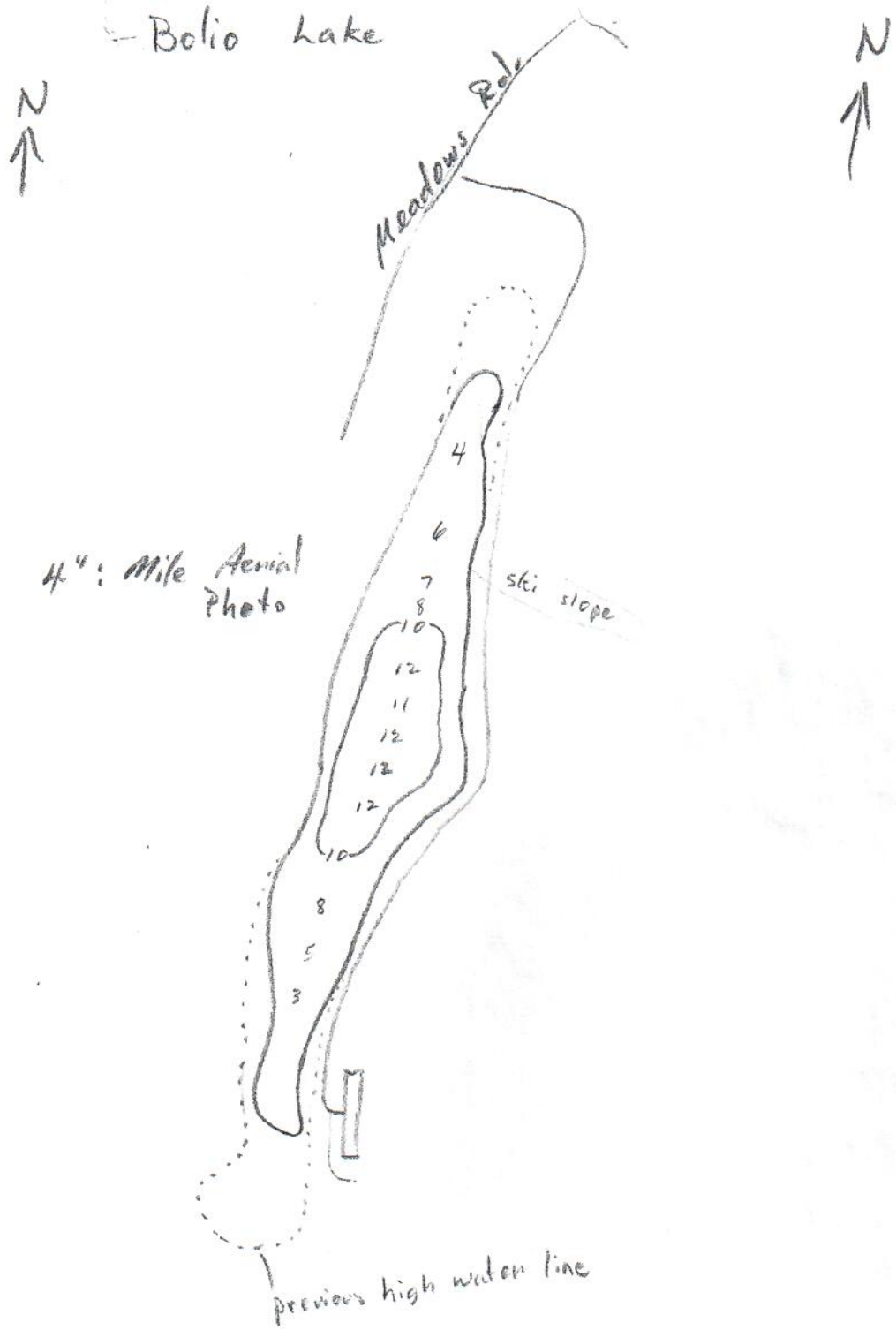


Contour	Acres	Av. Depth	Ac. Ft.
0-10'	80	7'	560
10+	20	11'	220
	100		780

Ave. depth = 7.8'

MEI = 11.5

Conductance = 90

January 30, 1978

Colonel James C. Henrionett, Commander
Cold Region Test Center
Ft. Greely, Alaska

Dear Colonel Henrionett:

As you know, over the years Bolio Lake has been the top fish producing lake located on Ft. Greely military reservation. The lake was first stocked by the Department of Fish and Game in 1953 and since that time over 700,000 rainbow trout and silver salmon have been stocked. However, in the past 10 years the lake level has steadily declined and is nearing a point that future management of the lake is threatened.

A possible factor contributing to the decline in lake level may be the ditching adjacent to the roadbed bordering the lake both on the east (Bolio Test Site Road) and on the west (Meadows Road) which prevents a portion of the normal runoff from reaching the lake.

This problem could be remedied by the placement of culverts in locations where runoff is impeded and cleaning or replacing clogged culverts.

Any assistance that could be provided in this regard would be greatly appreciated by the Department of Fish and Game and the recreational fishing public.

Sincerely,

Richard D. Peckham
Area Fishery Biologist
Delta Junction
Sport Fish Division

RP:lw

Since virtually all of the lake is littoral area the ~~lake~~ productivity is high. Rainbow trout up to 5 pounds were reported in the early years of stocking. ~~In 1970, silver salmon up to 18½ inches and 2.2 pounds were netted, this being the largest~~ In 1974, a silver salmon 18.5 inches in length and weighing 3 pounds was netted.

In recent years late winter dissolved oxygen ~~levels~~ levels have dropped to less than 4 ppm, although evidence of winter-kill has not been noted.

A public swimming beach and picnic area is located at the north end of the lake. The lake is also occassionally used by the military to test equipment.

Summer and winter sport fishing is popular because of its location near Mt. Greely and Delta Jct. Silver salmon entering the harvest average 8-10 inches.

~~If water~~ If water levels continue to decline winterkill may become a serious problem.

Bolio Lake

Although surface area for Bolio Lake is recorded at 128 acres, ~~the~~ low water levels in recent years have reduced the water area to less than 100 acres. Maximum depth is only 13 feet, making it ~~one of~~ the shallowest of the regularly managed lakes in the area.

The bottom type ~~ranges from hard sand on the north end~~ is mostly rock and gravel however the north end is covered by fine sand and the south end ~~has a deep bay~~ has a thick layer of organic muck. Aquatic vegetation is common in the southern 1/4 of the lake.

Rolling hills forested with mixed stands of spruce and birch surround the lake. There is no outlet and snow-melt and rain provides the only source of inflow.

Rainbow trout or silver salmon have been stocked almost annually since 1953. Only silver salmon have been stocked since 1966 with plants generally made every other year.

June, 1982

DICK & BILL – BAD NEWS!

NO FISH IN EITHER NET.

EACH NET FISHED ABOUT 18hrs.

POSSIBLE EXPLAINATIONS:-

I. HEAVY WINTER KILL

II. ½" mesh may be too big ??
I would have expected to
atleast gill some FISH in the lead.

III If there was a substantial kill
we might have missed the fish left –
our lead may be a bit short – 35-40 ft

Should you gill net let us know how you make out. IF GENE APPROVES, WE'd be happy to have another study site down here and do some population estimates for you.

Thanks for your hospitality and advice.

Sincerely,

Mike Lapointe

DEPARTMENT OF THE ARMY
UNITED STATES ARMY COLD REGIONS TEST CENTER
APO SEATTLE 98733

STECR-LG

23 February 1978

Richard D. Peckham
Area Fishery Biologist
Department of Fish and Game
Box 605
Delta Junction, AK 88737

Dear Mr. Peckham:

COL Henrionnet has directed that I contact you and make the necessary arrangements for a joint survey of the Bolio Lake area to determine what actions can be taken to improve the normal runoff reaching the lake.

Please contact me at 873-3198/872-3209 that we may arrive at a mutually satisfactory time to inspect the lakesite and to determine what actions would benefit the situation.

Sincerely,

G H Goodman

G. H. GOODMAN
LTC, OD
Chief, Logistics/Test Support Division

late Mar. - mid April contact:
Maj. Parker 872-3184

2-27-78

Advised Col Goodman would get in touch when runoff begins

DEPARTMENT OF THE ARMY
UNITED STATES ARMY COLD REGIONS TEST CENTER
APO SEATTLE 98733

STECR-CO

Richard D. Peckham
Area Fishery Biologist
Department of Fish and Game
Box 605
Delta Junction, AK 99737

Dear Mr. Peckham:

I received your letter dated 30 January 1978 and wish to impress upon you that we in the military are equally concerned with the situation at Bolio Lake. I have tasked LTC George Goodman with the responsitility of contacting you and making the necessary arrangements for a joint survey to determine what actions can be taken to improve this situation.

I have instructed LTC Goodman to coordinate this matter with you and to report to me the results of the survey. You may be assured that the Cold Regions Test Center is environmentally conscious and is particularly interested in doing what can be done to solve the problem at Bolio Lake.

Sincerely,

James F. Henrionnet

JAMES F. HENRIONNET
Colonel, Infantry
Commanding

III

Boleo Lake

6/20/55
E. Merrick

This lake has been fished very hard for the past month - ever since the ice left the shoreline. The fish are nice size, ranging from seven inches up to twenty inches. On gillnetting the lake, a 15½" and an 8" fish were taken. The larger fish was 22 months old, while the smaller was 11 months of age.

As you recall, Boleo was stocked for the first time in 1953. I believe we put in 10,000 fish during August. In 1954, we stocked approximately 90,000 fry during July and August. The 1953 fish are running from 14" to 20", while the 1954 fish are from 7" to 12".

We have had considerable publicity on this lake; see the four enclosed newspaper clippings.

Fishing in Boleo has been sporadic, but has held up surprisingly well. Last Friday, June 17th, George Nehrbas and his fishing partner went to the lake and caught 17 fish. Saturday and Sunday, the lake was fished very hard with about seven caught Saturday and none that I know of on Sunday. The fish were rolling in the lake, but not taking the lures. Don Kessler, Fairbanks, took five rainbows a week ago last Sunday. They measured 18", 18", 16", 16" and 14" - a beautiful catch.

The lake has been a huge success and has helped immeasurably in reestablishing our prestige in this area. I hate to see people get skunked when they drive down to fish the lake, but am also glad that the fish aren't too easy to catch.

BOLIO LAKE

1/25/60

This lake consists of 140 surface acres and is located on the Ft. Greely military reservation. In the winter of 1958-59 this area had a severe winter-kill. The test-netting on 1959 produced only 1 small Rainbow. This lake was first stocked with Rainbow in 1953. It has been stocked with Rainbow every year ~~xinnn~~ and has had a total of 442,400 fish planted.

1- Complete physical and chemical survey.
2- Test-netting
   a- (2) 125 ft. experimental gill-nets.
   b- (2) frame sets

Bolio Lake Cont.

   c- Shore seining

3- Try to determine cause of low water levels the past two years, it might be possible that an explosion of some sort may have broken the seal in the bottom of the lake.(It is very possible that a severe winter-kill will again take place this winter, 1959-60.)
4- No stocking recommended for 1960, last years stocking consisted of 721 fish per surface acre.