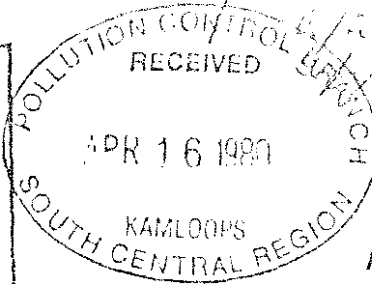


Dragon Lake - General

MINISTRY OF ENVIRONMENT
REGIONAL DIRECTOR
APR 14 1980
THOMPSON-NICOLA REGION
KAMLOOPS, B.C.



April 8, 1980

YOUR FILE  
OUR FILE0273896-23  
ESD 0273896-23

DIST	
ADM	✓
ACS	
TL	
DWH	✓
MAE	
DJB	
RTL	
CS	
CJP	
W/LAKE	✓

Dragon Lake Improvement District  
c/o Mr. J. McKelvie, Secretary

s.22

Dear Sir:

Re: Dragon Lake Water Quality

This letter is to confirm arrangements made by Colin McKean of this Ministry on Monday, March 31, 1980, regarding the development of a better information base on the water quality of Dragon Lake and the nutrient loading to it.

It has been agreed that the Improvement District will gather lake and water samples, and certain water quality field measurements, under our direction, during this coming runoff year. We will analyze this information and produce our interpretation of the results in the form of a preliminary report by February, 1981 (tentative target date). From the information gathered, the trophic condition of the lake should be apparent plus some indication of the main nutrient loadings to it. A decision on a course of action should be able to be made at that time.

Regarding the objectionable farming practices observed by Mr. McKean during his field inspection, we are enclosing a set of complaint forms which we would ask you to complete and send to the Agricultural Environmental Control Committee of the B.C. Federation of Agriculture.

Regarding the possibility of increasing the flushing rate of Dragon Lake by diversion of the runoff from the Spruce Lake drainage area, the necessary forms to initiate the legality of this proposal were forwarded to you earlier this week.

Yours truly,

R. J. Buchanan, Ph.D.  
Chief  
Environmental Studies

Enc.

cc: Mr. Bill Kastelen ✓



To: Don Williams

Date: April 23, 1980

From: Water Rights Branch  
Prince George

File: 0216639

Subject - Dragon Lake

MINISTRY OF THE ENVIRONMENT  
WATER RIGHTS BRANCH

APR 27 1980

On April 8, 1980, I met with John McKelvie, trustee of the Dragon Lake Improvement District to review his concerns regarding pollutants entering the lake and its continued eutrophication. Mr. McKelvie's concerns are outlined in the attached letter of April 3, 1980. I mentioned to Mr. McKelvie that there was not much that we could do regarding the manure piles draining into the lake, but asked him to contact the Ministry of Agriculture to see if they could persuade the farmers to either move the piles or construct ditches to intercept the runoff. Mr. McKelvie is taking water samples on Polly, Holly, and Dragon Creeks, as well as in Dragon Lake, to give some base data to work with.

The golf course dumping gravel on the foreshore to create a beach and boat launch area, and also <sup>s.22</sup> doing the same to enlarge <sup>s.22</sup> property, is within our jurisdiction and I believe a strong letter should be sent to the offenders as well as an inspection made of the violations to ascertain damages and remedial measures required.

Although there has not been much residential development along the lakeshore, there is a possibility that the existing sewage system discharges are getting into Dragon Lake.

Mr. Colin McKean from Ministry of Environment in Victoria is participating in the development of a "super snooper" to measure septic tank infiltration to the lake. This will be tested this summer and ready for use next year. A request from our ministry to do a survey of Dragon Lake using this equipment would be of great benefit to any planning objectives contemplated.

As I have not attended any of the T.P.C. meetings of the Regional District in Williams Lake, I am unaware of what planning there has been for Dragon Lake or what is contemplated. I believe though that efforts should be taken to

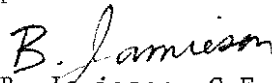
- 2 -

ensure that Dragon Lake's water quality does not deteriorate any further. If not already done so, some planning objectives should be instituted for Dragon Lake and guidelines formulated for controlling development in the area.

Would you please investigate these problems and keep the trustees of the Dragon Lake Improvement District informed as to what is being done. If I can be of any assistance to you, please call.

D. W. Roberts, P. Eng.  
Regional Manager

per:

  
B. Jamieson, C.E.T.  
Community Water Supply Technician

BJ:wc

cc: J. McKelvie

s.22

s.22

1980 04 03

Mr. Bruce Jamison  
1011 4th Ave.  
Water Rights Dept.  
Prince George, B.C.

Dear Sir:

Re: Dragon Lake Improvement District

Further to our phone conversation this morning regarding problems developing on Dragon Lake at Quesnel..

I had mentioned several areas of concern including a cattle feed lot of recent origin for about 200 head (estimated) on property owned by a s.22 borders on Holley Creek and draining into Dragon Lake, south end. Legal description - D.L. 3954.

Also, a long established ranch owned presently by s.22 and before by a s.22, wherein a large manure pile and stock feeding pens, together with a various and sundry mess, drains immediately into Dragon Creek and thence to Dragon Lake. Legal description - D.L. 715 - Cariboo L.D.

Also, a golf course in the process of construction presently dumping sand and gravel on the ice obviously with intent to develop a beach and rumours that a camp ground will also be established adjacent. We have no request or permits or communication.

Legal description - 28.63 acres - N½ A, D.L. 3965 & 3971 except Plan #'s 11378, 12521, 12699, 14161, 14966, 15676, 16061, 16062, 16554. Owned by a s.22

Also, a property owned by a s.22 wherein gravel or soil materials have been dumped into a marshy area of the lake, obviously extending his holdings into lake area for personal benefit. No request or permit was issued to our knowledge or information. Legal description - Lot 4, D.L. 3965, Plan 20859.

..... 2

..... 2

We object to these mentioned areas of trespass and potential deterioration of the lake, along with several other areas, where I will show you when we meet on Thursday, April 10, 1980.

Trusting we can meet as planned, I am

Sincerely yours,



John P. McKelvie, Secretary  
Dragon Lake Improvement Dist.

s.22

Office Address: P.O. Box 4573, Quesnel, B.C. V2J 2E6

JPM/sh

c.c. Glen Smith  
Cariboo Health Unit  
511 Reid St.  
Quesnel, B.C.

MINISTRY OF ENVIRONMENT  
REGIONAL DIRECTOR

APR 14 1980

THOMPSON-NICOLA REGION  
KAMLOOPS, B.C.

YOUR FILE

OUR FILE

0273896-23

ESD 0273896-23

April 8, 1980

Dragon Lake Improvement District  
c/o Mr. J. McKelvie, Secretary

s.22

Dear Sir:

Re: Dragon Lake Water QualityMINISTRY OF THE ENVIRONMENT  
WATER RIGHTS BRANCH

APR 16 1980

WILLIAMS LAKE, B.C.

This letter is to confirm arrangements made by Colin McKean of this Ministry on Monday, March 31, 1980, regarding the development of a better information base on the water quality of Dragon Lake and the nutrient loading to it.

It has been agreed that the Improvement District will gather lake and water samples, and certain water quality field measurements, under our direction, during this coming runoff year. We will analyze this information and produce our interpretation of the results in the form of a preliminary report by February, 1981 (tentative target date). From the information gathered, the trophic condition of the lake should be apparent plus some indication of the main nutrient loadings to it. A decision on a course of action should be able to be made at that time.

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Yours truly,

R. J. Buchanan, Ph.D.  
Chief  
Environmental Studies

Enc.

cc: Mr. Bill Kastelen ✓

XXXXXXXXXXXXXXXXXXXXXXXXXXXX Environment

Suite 606  
1488 - 4th Avenue  
Prince George  
V2L 4Y2

April 5, 1976

Dragon Lake Improvement District  
c/o Mr. J. P. McKelvie, Secretary  
P.O. Box 4573  
Quesnel, B.C.

Dear Sirs:

Firstly, I would apologize for the tardy reply to your enquiries raised at the February 18, 1976, meeting of the Trustees, that I attended.

A check of our local files and enquiries directed to our Victoria Office failed to reveal any licence in the Hallis Lake area to be in the process of being cancelled. The storage licence existing on Dragon Creek (Little Hallis Lake) is held by <sup>s.22</sup> in support of irrigation use on Lots 715, 7253 and 2560 adjacent to Dragon Lake. Discussions pertaining to this licence have taken place over the past year and investigations of the status of this licence is planned for this summer.

Establishment of a Watershed Reserve over the Dragon Creek watershed above Dragon Lake would offer a certain degree of protection to the water resource of the area. The watershed reserve is applicable only to Crown land and any planned use of land is then referred to the Water Resources Service for comment prior to alienation. Protection of the water resource on privately held land can best be achieved by zoning by-laws of the Regional District.

Our office will be forwarding a letter to the Regional District of Cariboo advising them that the Water Rights Branch considers the Dragon Creek area to be water short and that water licences may not be available to further applicants.

Dragon Lake Improvement District

April 5, 1976

Should you wish to proceed with the establishment of a watershed reserve or have any other questions please contact this office for additional information and assistance.

Yours truly

C. E. Wilson, P. Eng.  
Regional Engineer

per: 9

J. H. Dyck, P. Eng.  
Assistant Regional Engineer

JHD:mat

MEMO TO FILE

Water Resources Service, Prince George, B.C.

March 17

76

0216639

0213913

I attended a meeting of the Trustees of the Dragon Lake Improvement District on February 18, 1976. Those present were Jack Newman, George Murray, John McKelvie and C. E. Zschiedrich.

The main concern of the group protection of the contributing watershed to Dragon Lake to prevent deterioration of either quality or quantity. To this end they requested I:

- (1) Look into the establishment of a watershed reserve.
- (2) Check to determine the cancellation status of a licence in the Hallis Lake area.
- (3) Check to see what measures can be taken to limit types of development and/or settlement that would have adverse effects on their water supply. (i.e. advising the Regional District that further water is not available for use if that is the case).

Enquiries, mainly of a general nature, were also made regarding the status of licences and applications on Dragon Creek and Lake. I advised data gathered to this date indicate that no further irrigation licences will be recommended and furthermore Dragon Creek itself appears to be overrecorded at the present time.

C. E. Wilson, P. Eng.  
Regional Engineer

per: 

J. H. Dyck, P. Eng.  
Assistant Regional Engineer

JHD:mat