

OKANAGAN BASIN WATER BOARD

AGENDA

January 28, 1971, 2:00 p.m.

A. LETTERS - APPOINTMENT OF DIRECTORS R.D.C.O & R.D.O.S.

1. Minutes from meeting of December 3, 1970.

2. Financial Statements 1970.

- Appointment of auditor

3. Chairman and Secretary-Manager 1970 reports.

4. Election of Officers.

~~LETTERS - APPOINTMENT OF DIRECTORS R.D.C.O & R.D.O.S.~~

- Chairman

- Vice Chairman

5. Accounts.

6. Correspondence.

(a) City of Vernon - Mayor Halina appointed observer to Water Board.

(b) Village of Oliver - R.W. Sturgess appointed observer to Water Board.

(c) Corporation of Peachland - Ivor Jackson appointed observer to Water Board

(d) J. Connelly, W. Hardcastle, H. Thompson - appointment to Technical Committee - Okanagan Basin Water Board.

(e) Canadian Water Resources Association - application for membership.

(f) W.G. Hardcastle - re: development of property near Squally Point.

(g) Mayor Duke - Village of Lumby water supply investigation.

8(h) City of Kelowna - re: flooding along Mill Creeek.

9(i) City of Kelowna - letter to B.E. Marr. re: Treatment of sewage effluent with coal.

10(j) Okanagan Basin Study - re: Seminar February 9 -11, 1971. Board & Press INVITED WED NIGHT (FEB 10) . STUDY COMMITTEE TO VISIT BOARD MORE OFTEN

11(k) SLEZAK GROUNDWATER QUALITY  
7. New Business.

(a) Summary of reports on Okanagan Basin Study available at Study Directors office.

(b) Arrangements for public meetings in the Okanagan regarding the Okanagan Basin Study.

- TYPE OF MEETINGS? , WHERE?

(c) Inventory of positive waste discharges within the Okanagan-Similkameen area. (FOR BOARD INFO - WITH VIEW TO REMOVAL SYRS. ETC.

(d) Progress of K-Bar Ranches Water licence applications - meeting with Black Mountain Irrigation District.

(b) Arrangements for public meetings in the Okanagan regarding the Okanagan Basin Study.

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(d) Progress of K-Bar Ranches Water licence applications - meeting with Black Mountain Irrigation District.

(e) Water Board Representative on Regional District Technical Committee.

8. Other Business.

- Brochure study COMMITTEE

- Conference on water resources. OTTAWA

## OKANAGAN BASIN WATER BOARD

Balance Sheet

December 31, 1970

<u>ASSETS</u>		<u>LIABILITIES</u>	
Bank Balance -	\$4,864.06	Surplus -	\$4,864.06
Total Assets	<u>\$4,864.06</u>	Total liabilities	<u>\$4,864.06</u>

INCOME STATEMENT

For the Year Ended December 31, 1970

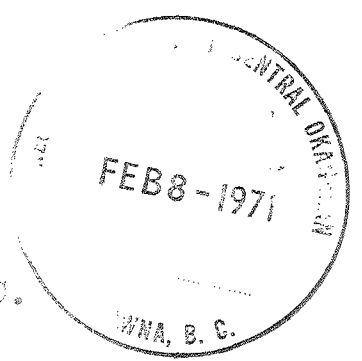
REVENUE:BUDGETED  
1970

Regional District of Okanagan-Similkameen	\$6,299.00	\$ 6,299.00
" " of North Okanagan	4,442.00	4,442.00
" " of Central Okanagan	<u>8,259.00</u>	<u>8,259.00</u>
Total Revenue-----	\$19,000.00	<u>\$19,000.00</u>

EXPENSES:

Gross Salary	\$10,041.67	\$10,500.00
Employee Benefits:		
Workmen's Compensation	\$ 66.00	
C.P.P.	84.60	
M.S.A.	64.00	
Relocation expense	100.00	
Accident Insurance	<u>9.00</u>	1,500.00
Rent	690.00	800.00
Stenographic services	1,150.00	-----
Travel	633.74	800.00
Office Equipment and Supplies:		
Equipment	170.10	
Supplies	144.71	
Stationery	119.85	
Photo copies	<u>145.00</u>	500.00
Postage and Miscellaneous	105.64	800.00
Telephone	108.40	400.00
Bank Service Charges	3.30	-----
Books, Journals, & Subscriptions	89.70	-----
Grants, for Research Studies & Public Information	-----	2,500.00
Contingencies	<u>453.71</u>	<u>1,200.00</u>
Total Expenses-----	\$14,179.42	<u>\$19,000.00</u>
Surplus 1970	<u>\$ 4,820.58</u>	-----

Box 243  
Keremeos B.C.  
Feb. 2/71



Okanagan Basin Water Board  
540 Groves Avenue  
Kelowna B.C.

Dear Sir;

Your notice of meeting was received on Jan 29th, and I see where the meeting was on Jan. 28th.

I note the letter was written on January 19th and mailed at 6 P.M. on the 25th, which does not give one very much notice along with this I live out of town and do not get my mail every day. Usually once a week sometimes twice. In the future would you please give me ten days notice so I can arrange to be at your meetings.

Thanking you

I remain

Yours truly

Mrs G. V. Lawrence  
Director Area G.  
Okanagan Similkameen Regional District.

MINUTES OF THE MEETING OF THE OKANAGAN BASIN WATER BOARD HELD JANUARY 28, 1971 AT 2:00 p.m. IN THE OFFICES OF THE REGIONAL DISTRICT OF CENTRAL OKANAGAN, 540 GROVES AVENUE, KELOWNA, B.C.

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Present: W.C. Bennett R.D.C.O.  
M. Marshall R.D.C.O.  
L. Bawtree R.D.N.O.  
P. Duke R.D.N.O.  
J. Patterson R.D.N.O. (alternate)

Also in Attendance:

Mayor Roth City of Kelowna  
K.E. McKee Secretary-Treasurer, Regional  
District of Columbia-Shuswap  
M. Thomson Study Director, Okanagan Basin  
Study  
J.M. Hamilton Engineer, City of Penticton  
B. Harvey Chairman, Association of B.C.  
Irrigation Districts

Press and Radio:

Vernon News, Kelowna Courier, Penticton Herald, CKOK Radio, CKOV  
Radio, CJIB Radio

The Chairman called the meeting to order and asked the Secretary-Manager to read letters from the Regional District of Okanagan-Similkameen and the Regional District of Central Okanagan appointing Directors to the Okanagan Basin Water Board for 1971.

Directors for 1971: Newly appointed Directors from the Regional District of Okanagan-Similkameen are: Mr. P.A. Farmer; Mrs. G.V. Lawrence and Mayor F.D. Stuart - alternate. Directors from the Regional District of Central Okanagan are: W.C. Bennett; M. Marshall and D.A. Pritchard - alternate.

Minutes: Duke - Patterson:

That the minutes of the meeting of December 3, 1970 be adopted as circulated.

CARRIED

Financial Statements: The Secretary-Manager presented the financial statements for the year ended December 31, 1970. Total revenue for 1970 from the three Regional Districts was \$19,000, expenditures were \$14,179.42, leaving \$4,820.58 surplus.

The surplus will be directed towards 1971 operating expenses.

The Chairman suggested that since public funds were being used to operate the Water Board that an auditor should be appointed. Mr. Bawtree agreed.

Auditor: Duke - Bawtree:

That an auditor be appointed for the financial statements of the Water Board.

CARRIED



Chairman &  
Secretary-  
Manager  
Reports:

Both the Chairman and Secretary-Manager presented comprehensive reports on the activities of the Water Board during 1970. Copies of the reports were circulated to those in attendance.

Bawtree - Marshall:

That the reports of the Chairman and Secretary-Manager be adopted as presented.

CARRIED

Election of  
Officers:

The Chairman turned the meeting over to the Secretary-Manager for election of officers for the 1971 term.

The Secretary-Manager called nominations for Chairman. Mr. Bawtree nominated W.C. Bennett for Chairman. There were no further nominations. Mr. Bennett was declared Chairman of the Board for the ensuing year.

The Chairman then called for nominations for Vice-Chairman.

Mr. Bawtree was elected Vice-chairman.

Accounts:

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The following accounts were presented for payment:

Regional District of Central Okanagan (Dec. 1, 1970 - Jan. 31, 1971)	\$376.51
Capri Motor Hotel	57.85
Secretary-Manager (expenses) (Dec. 4, 1970 - Jan. 28, 1971)	47.80
Total	<u>\$482.16</u>

Marshall - Duke:

That the above accounts be paid.

CARRIED

Signing  
Suthorities:

The Chairman informed that signing authorities for the Board would have to be appointed for the 1971 term.

Duke - Marshall:

That L. Bawtree and W.C. Bennett be appointed signing authorities for the Water Board during 1971.

CARRIED

Correspondence:

The following letters were read:

Vernon  
Observer:

1. City of Vernon + advising that Mayor W. Halina has been appointed to act as observer to the Water Board for the City of Vernon.

Oliver  
Observer:

2. Village of Oliver + appointing Alderman R.W. Sturgess as observer to the Water Board for 1971.

Peachland  
Observer:

3. The Corporation of the District of Peachland - appointing Mr. Ivor Jackson, observer to the Okanagan Basin Water Board.

J. Connelly  
Appointed  
to Tech.  
Comm.:

4. Mr. J. Connelly, Planning Director of the Regional District of North Okanagan - letter requesting appointment to the Technical Committee of the Okanagan Basin Water Board.

The Secretary-Manager pointed out that the three Planning Directors from the Regional Districts had decided to alternate their terms on the Technical Committee to the Water Board.

The Water Board agreed that this would be a good procedure and suggested that the Secretary-Manager appoint one of the planners to the Committee.

Membership  
Canadian  
Water  
Resources  
Association:

5. Canadian Water Resources Association - letter outlining the objectives of the Association and a request that the Okanagan Basin Water Board join the Association at an annual fee of \$5.00.

The Chairman asked Mr. Harvey, a Director of the Canadian Water Resources Association, whether he felt it would be desirable for the Water Board to join.

Mr. Harvey pointed out that the Canadian Water Resources Association was gaining strength and it would be desirable for the Water Board to take out membership with the Association.

Bawtree - Duke:

That the Okanagan Basin Water Board take out membership with the Canadian Water Resources Association.

CARRIED

Proposed  
Squally  
Point  
Development:

6. Copy of a letter forwarded from W.G. Hardcastle, Planning Director of the Regional District of Central Okanagan to H. Thompson, Planning Director, Regional District of Okanagan-Similkameen: The letter drew attention to a proposed development in the Squally Point area near the boundary of the two Regional Districts. This development was not recommended due to the close surface proximity and high density of bedrock. Lake contamination could occur from inadequate septic tank drainage.

Lumby  
Ground-  
water  
Investiga-  
tion:

7. Mayor Duke, Village of Lumby - Letter requesting assistance in groundwater investigations for additional water supply to the Village of Lumby.

Mayor Duke pointed out that the Water Investigations Branch of the Water Resources Service has done sample drilling throughout the Valley in the Armstrong, Rutland and Vernon areas. He requested that this branch be approached to do some drilling in the Lumby area to make a better assessment for the placement of groundwater wells to supplement the Village's water supply. Mayor Duke requested the Okanagan Basin Water Board to approach the Water Investigations Branch for assistance in groundwater investigations.

Mr. Thomson, Study Director of the Okanagan Basin Study said that if a letter was forwarded to him, he would inform Mr. Marr, Chief Engineer of the Water Investigations Branch, to see whether test wells could be drilled in the Lumby area. Mr. Thomson pointed out that most holes that have been drilled in the Okanagan were not meant to be domestic wells, but mainly sampling wells. These could be converted to domestic wells at a future time. The Secretary-Manager would write the Departments concerned regarding groundwater investigations in the Lumby area.

Mill  
Creek  
Flooding:

8. City of Kelowna - letter requesting assistance under the Okanagan Basin Study to correct a flooding problem along Mill Creek within the City.

Mayor Duke informed that a similar problem had existed along a creek flowing through Lumby. The Water Investigations Branch was approached and financial assistance was received to correct the situation.

Mayor Roth said that he would see if this assistance is available to Kelowna. The Secretary-Manager would write a letter to the City suggesting where to apply for assistance.

Kelowna  
Proposed  
Effluent  
Treatment  
with coal:

9. Mr. E.F. Lawrence, Director of Operations, City of Kelowna - letter to Mr. B.E. Marr, co-chairman of the Canada-British Columbia Consultative Board regarding the Cities' proposal to use Hat Creek coal deposits for treatment of sewage effluent. Laboratory tests so far were inconclusive and insufficient to permit immediate construction of a pilot plant. Accordingly the City was not in a position to submit an addendum to its earlier submission for consideration under the Okanagan Basin Study.

Okanagan  
Basin Study  
Seminar:

10. Study Director, Okanagan Basin Study - letter outlining the arrangements and agenda for the Okanagan Basin Study Seminar to be held in Penticton February 9 - 11, 1971.

Some sixty participants are expected to be in attendance. The Technical Committee to the Water Board will attend the entire Seminar. The Canada-British Columbia Consultative Board and the Okanagan Study Committee will also be in attendance.

Members of the Water Board and the Press are invited to attend an informal session of the seminar to exchange information, at 7:30 to 10:00 p.m. on Wednesday February 10th in the Social Suite of the Pilgrim House Motor Hotel, in Penticton.

Mr. Thomson briefly outlined the progress of the Okanagan Basin Study.

Ground-  
water  
Sampling:

11. M.W. Slezak, Chief Project and Research Division, Pollution Control Branch. - letter acknowledging the Water Board letter of December 16, 1970 referring to discharges from several facilities into groundwater. The Board had questioned the effect this would have on groundwater quality and asked the Pollution Control Branch whether they had done any research in this regard. The Board had recommended that monitoring wells be established near effluent discharges to the ground.

Mr. Slezak replied that groundwater quality information had been collected at several locations throughout the Valley and the Study programme makes allowance for further collection of groundwater data from specific sources in 1971 and 1972. Interim reports will be submitted to the Study Directors office in Penticton.

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NEW BUSINESS

Summary of  
Okanagan  
Basin Study  
Reports:

(1) The Secretary-Manager presented a summary of six preliminary reports on tasks under the Okanagan Basin Study. These reports were filed at the Study Directors office in Penticton. The reports covered the following subject areas: A survey of the bottom fauna in the lakes of the Okanagan Valley, a preliminary investigation of water quality data, a review and evaluation of nutrient removal methods, seismic exploration of groundwater resources, Okanagan Basin inflow determinations, and sampling analysis results for 32 streams.

Mayor Roth inquired whether outfalls into Okanagan waters were being sampled as well. Mr. Thomson replied that they were being sampled.

Public  
Meetings  
Okanagan:

(2) The Secretary-Manager informed that the Okanagan Basin Study Committee wished to arrange for a series of public meetings in the Okanagan during the spring of this year. Mr. Thomson added that the

Study Committee preferred to have smaller meetings than the Salmon Arm meeting. Smaller meetings would give a better opportunity for more people to present their views. If more meetings are held throughout the various centres in the Okanagan the size of attendance at meetings should be reduced. The Chairman asked where such meetings should be held and who would come to these meetings.

Mr. Thomson replied that members of the Canada-British Columbia Consultative Board and the Okanagan Basin Study Committee and other interested groups would be at the meetings.

Mr. Bawtree inquired whether or not it would be better to know some of the results of the study before holding public meetings.

Mr. Thomson replied that by the spring some results will be available, particularly on water demand and nutrient loading of the lake system.

The Secretary-Manager asked Mr. Thomson whether he felt it would be advisable to hold a series of three meetings throughout the Valley in a short time period in order to accommodate Officials travelling from Ottawa. If the meetings follow close together it would save extra trips. Mr. Thomson agreed.

The Board agreed that the Secretary-Manager should work with the Study Director to arrange for public meetings in the Okanagan in the spring.

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Inventory  
of Positive  
Waste  
Discharges:

(3) The Secretary-Manager suggested to the Board that an inventory of all positive waste discharges to water within the Okanagan-Similkameen area be acquired as basic information for the Water Board file. Such an inventory has been compiled by the Pollution Control Branch. The Board should write to the Director of Pollution Control seeking this information which is of extreme importance. Eventually it is expected that the Board will play a very important role in encouraging the improvement of standards of all waste discharges to water and possibly the removal of some outfalls from water to land. The Board should have a complete inventory of outfall locations, and amount and type of effluent in order to coordinate appropriate action required to upgrade wastes. The Secretary-Manager went on to say that since the Water Board is involved in both water quantity and quality management it is just as important to have an inventory of all waste discharges as it is to have an inventory of stream flow into the Okanagan system.

Mayor Roth inquired, who would ultimately be responsible in deciding on effluent standards. The Secretary-Manager replied that he expected the Water Board would have an important role in deciding finally what type of effluent and how much effluent would be allowed to enter the Okanagan water system.

Bawtree - Marshall:

That the Water Board acquire an inventory of all positive waste discharges into the Okanagan-Similkameen water system.

CARRIED

Mr. Hamilton pointed out that a study of all storm drainages within the Okanagan will be available as well.

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K-Bar Ranch  
Water  
Licence  
Applications: (4) The Chairman reviewed the progress of the K-Bar Ranches water licence applications. He and the Secretary-Manager had met once with the Black Mountain Irrigation District and once with K-Bar Ranches Ltd. to discuss the possible consolidation of water licences and water licence applications within the Grey Stoke area under one management by Black Mountain Irrigation District. Another meeting will be held jointly in a few weeks with both Black Mountain and K-Bar Ranches. The Water Board will chair that meeting.

The Comptroller of Water Rights in the cnd will decide what amount of water will be granted.

The Chairman pointed out that the Water Rights Branch has taken considerable interest in the recommendations of the Water Board with regard to the K-Bar Water licence applications.

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Water Board  
Representation  
on Regional  
District  
Technical  
Committees: (5) The Secretary-Manager asked the Board if it would be desirable to have a Water Board representative on each of the Technical Committees of the three Regional Districts in the Okanagan. Mr. Bawtree pointed out that there is already considerable cross reference of representation on these committees.

The Chairman pointed out that the Secretary-Manager had attended Technical Committee meetings of the Regional District of Central Okanagan where the agendas had included some problems related to water resources.

The Board agreed that the Secretary-Manager should be made available to attend Regional District Technical Committee meetings when water problems were being discussed. He would not be required to attend meetings dealing with other Regional matters.

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Log  
Booming  
Leases: Mayor Roth asked the Chairman if he wished to comment on the log booming leases applied for by Crown Zellerbach on properties near Bear Creek. Since water was involved he felt this would be of interest to the Board. The Chairman replied that the Regional District of Central Okanagan is currently discussing this with Crown Zellerbach and that the Regional Board should withhold comment until discussions with the Company were completed.

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Nitroprills  
Airport: The Chairman asked Mayor Roth if he had any information regarding use of nitroprills on the runway of the Kelowna Airport to combat frosting conditions. The Chairman felt that this could be a source of nutrients in Mill Creek.

Mayor Roth replied that he was not aware of the use of this chemical on the runway. The Chairman asked if it would be permissible for the Water Board to write to the City of Kelowna seeking further information on the use of nitroprills in combating ice conditions. Mayor Roth replied that he would welcome this letter.

#### OTHER BUSINESS

The Secretary-Manager referred the Board to copies of a Brochure on the Okanagan Basin Study and other literature related to Okanagan water studies that had been placed before them.

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Water  
Resource  
Conference:

The Secretary-Manager informed the Board of a conference in Ottawa February 16 and 17, entitled "Management of Canada's Water Resources". This conference is jointly sponsored by the Association of Consulting Engineers of Canada, the Engineering Institute of Canada, and the Canada Water Resources Association. Top officials from government agencies will be present. The following topics of interest to the Water Board will be discussed: To what extent are existing agencies equipped for effective water management; what new agencies are likely to be needed as provided for by the Canada Water Act; how can full inter-governmental cooperation be achieved; and the setting and enforcement of water quality standards. The Secretary-Manager will try to acquire a copy of the proceedings of this conference.

Salmon Arm  
Briefs:

The Secretary-Manager informed the Board that copies of briefs and the transcript of proceedings of the November 5th public meeting in Salmon Arm were available at the Water Board office.

Superannuation:

The Chairman informed the Board that the Secretary-Manager wished to participate in a Superannuation scheme under a registered pension plan of the Canada Trust Company rather than under the Municipal Superannuation plan. The Chairman pointed out that since public funds were being used in the operation of the Water Board that the Municipal Superannuation plan should be used for the Secretary-Manager's pension fund. The Board generally agreed with this policy.

Marshall - Duke:

That the Municipal Superannuation Plan be used by the Secretary-Manager.

CARRIED

Mr. Bawtree pointed out that the Chairman of the Water Board should be reimbursed for his expenses incurred in placing Christmas messages, from the Water Board to the general public, in the local papers.

Bawtree - Duke:

That Christmas greeting messages which had appeared in local papers be charged to Board administration costs.

CARRIED

Bawtree - Marshall:

That a letter of thanks be sent to Board members who had served during the 1970 term, and will retire from the Board this year.

CARRIED

The next meeting will be held March 4, 1971.

Mayor Duke Moved that the meeting be adjourned. The meeting adjourned at 4:00 p.m.

Secretary-Manager

Chairman

MINUTES OF THE MEETING OF THE OKANAGAN BASIN WATER BOARD HELD JANUARY 28, 1971 AT 2:00 p.m. IN THE OFFICES OF THE REGIONAL DISTRICT OF CENTRAL OKANAGAN, 540 GROVES AVENUE, KELOWNA, B.C.

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Present: W.C. Bennett R.D.C.O.  
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Mayor Roth City of Kelowna  
K.E. McKee Secretary-Treasurer, Regional  
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The Chairman called the meeting to order and asked the Secretary-Manager to read letters from the Regional District of Okanagan-Similkameen and the Regional District of Central Okanagan appointing Directors to the Okanagan Basin Water Board for 1971.

Directors for 1971: Newly appointed Directors from the Regional District of Okanagan-Similkameen are: Mr. P.A. Farmer; Mrs. G.V. Lawrence and Mayor F.D. Stuart - alternate. Directors from the Regional District of Central Okanagan are: W.C. Bennett; M. Marshall and D.A. Pritchard - alternate.

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Officers:

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Suthorities:

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Duke - Marshall:

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Bawtree - Duke:

That the Okanagan Basin Water Board take out membership with the Canadian Water Resources Association.

CARRIED

Proposed  
Squally  
Point  
Development:

6. Copy of a letter forwarded from W.G. Hardcastle, Planning Director of the Regional District of Central Okanagan to H. Thompson, Planning Director, Regional District of Okanagan-Similkameen: The letter drew attention to a proposed development in the Squally Point area near the boundary of the two Regional Districts. This development was not recommended due to the close surface proximity and high density of bedrock. Lake contamination could occur from inadequate septic tank drainage.

Lumby  
Ground-  
water  
Investiga-  
tion:

7. Mayor Duke, Village of Lumby - Letter requesting assistance in groundwater investigations for additional water supply to the Village of Lumby.

Mayor Duke pointed out that the Water Investigations Branch of the Water Resources Service has done sample drilling throughout the Valley in the Armstrong, Rutland and Vernon areas. He requested that this branch be approached to do some drilling in the Lumby area to make a better assessment for the placement of groundwater wells to supplement the Village's water supply. Mayor Duke requested the Okanagan Basin Water Board to approach the Water Investigations Branch for assistance in groundwater investigations.

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8. City of Kelowna - letter requesting assistance under the Okanagan Basin Study to correct a flooding problem along Mill Creek within the City.

Mayor Duke informed that a similar problem had existed along a creek flowing through Lumby. The Water Investigations Branch was approached and financial assistance was received to correct the situation.

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water  
Sampling:

11. M.W. Slezak, Chief Project and Research Division, Pollution Control Branch. - letter acknowledging the Water Board letter of December 16, 1970 referring to discharges from several facilities into groundwater. The Board had questioned the effect this would have on groundwater quality and asked the Pollution Control Branch whether they had done any research in this regard. The Board had recommended that monitoring wells be established near effluent discharges to the ground.

Mr. Slezak replied that groundwater quality information had been collected at several locations throughout the Valley and the Study programme makes allowance for further collection of groundwater data from specific sources in 1971 and 1972. Interim reports will be submitted to the Study Directors office in Penticton.

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NEW BUSINESS

Summary of  
Okanagan  
Basin Study  
Reports:

(1) The Secretary-Manager presented a summary of six preliminary reports on tasks under the Okanagan Basin Study. These reports were filed at the Study Directors office in Penticton. The reports covered the following subject areas: A survey of the bottom fauna in the lakes of the Okanagan Valley, a preliminary investigation of water quality data, a review and evaluation of nutrient removal methods, seismic exploration of groundwater resources, Okanagan Basin inflow determinations, and sampling analysis results for 32 streams.

Mayor Roth inquired whether outfalls into Okanagan waters were being sampled as well. Mr. Thomson replied that they were being sampled.

Public  
Meetings  
Okanagan:

(2) The Secretary-Manager informed that the Okanagan Basin Study Committee wished to arrange for a series of public meetings in the Okanagan during the spring of this year. Mr. Thomson added that the



Study Committee preferred to have smaller meetings than the Salmon Arm meeting. Smaller meetings would give a better opportunity for more people to present their views. If more meetings are held throughout the various centres in the Okanagan the size of attendance at meetings should be reduced. The Chairman asked where such meetings should be held and who would come to these meetings.

Mr. Thomson replied that members of the Canada-British Columbia Consultative Board and the Okanagan Basin Study Committee and other interested groups would be at the meetings.

Mr. Bawtree inquired whether or not it would be better to know some of the results of the study before holding public meetings.

Mr. Thomson replied that by the spring some results will be available, particularly on water demand and nutrient loading of the lake system.

The Secretary-Manager asked Mr. Thomson whether he felt it would be advisable to hold a series of three meetings throughout the Valley in a short time period in order to accommodate Officials travelling from Ottawa. If the meetings follow close together it would save extra trips. Mr. Thomson agreed.

The Board agreed that the Secretary-Manager should work with the Study Director to arrange for public meetings in the Okanagan in the spring.

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Inventory  
of Positive  
Waste  
Discharges:

(3) The Secretary-Manager suggested to the Board that an inventory of all positive waste discharges to water within the Okanagan-Similkameen area be acquired as basic information for the Water Board file. Such an inventory has been compiled by the Pollution Control Branch. The Board should write to the Director of Pollution Control seeking this information which is of extreme importance. Eventually it is expected that the Board will play a very important role in encouraging the improvement of standards of all waste discharges to water and possibly the removal of some outfalls from water to land. The Board should have a complete inventory of outfall locations, and amount and type of effluent in order to coordinate appropriate action required to upgrade wastes. The Secretary-Manager went on to say that since the Water Board is involved in both water quantity and quality management it is just as important to have an inventory of all waste discharges as it is to have an inventory of stream flow into the Okanagan system.

Mayor Roth inquired, who would ultimately be responsible in deciding on effluent standards. The Secretary-Manager replied that he expected the Water Board would have an important role in deciding finally what type of effluent and how much effluent would be allowed to enter the Okanagan water system.

Bawtree - Marshall:

That the Water Board acquire an inventory of all positive waste discharges into the Okanagan-Similkameen water system.

CARRIED

Mr. Hamilton pointed out that a study of all storm drainages within the Okanagan will be available as well.

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K-Bar Ranch  
Water  
Licence  
Applications: (4) The Chairman reviewed the progress of the K-Bar Ranches water licence applications. He and the Secretary-Manager had met once with the Black Mountain Irrigation District and once with K-Bar Ranches Ltd. to discuss the possible consolidation of water licences and water licence applications within the Grey Stoke area under one management by Black Mountain Irrigation District. Another meeting will be held jointly in a few weeks with both Black Mountain and K-Bar Ranches. The Water Board will chair that meeting.

The Comptroller of Water Rights in the end will decide what amount of water will be granted.

The Chairman pointed out that the Water Rights Branch has taken considerable interest in the recommendations of the Water Board with regard to the K-Bar Water licence applications.

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Water Board  
Representation  
on Regional  
District  
Technical  
Committees: (5) The Secretary-Manager asked the Board if it would be desirable to have a Water Board representative on each of the Technical Committees of the three Regional Districts in the Okanagan. Mr. Bawtree pointed out that there is already considerable cross reference of representation on these committees.

The Chairman pointed out that the Secretary-Manager had attended Technical Committee meetings of the Regional District of Central Okanagan where the agendas had included some problems related to water resources.

The Board agreed that the Secretary-Manager should be made available to attend Regional District Technical Committee meetings when water problems were being discussed. He would not be required to attend meetings dealing with other Regional matters.

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Log  
Booming  
Leases: Mayor Roth asked the Chairman if he wished to comment on the log booming leases applied for by Crown Zellerbach on properties near Bear Creek. Since water was involved he felt this would be of interest to the Board. The Chairman replied that the Regional District of Central Okanagan is currently discussing this with Crown Zellerbach and that the Regional Board should withhold comment until discussions with the Company were completed.

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Nitroprills  
Airport: The Chairman asked Mayor Roth if he had any information regarding use of nitroprills on the runway of the Kelowna Airport to combat frosting conditions. The Chairman felt that this could be a source of nutrients in Mill Creek.

Mayor Roth replied that he was not aware of the use of this chemical on the runway. The Chairman asked if it would be permissible for the Water Board to write to the City of Kelowna seeking further information on the use of nitroprills in combating ice conditions. Mayor Roth replied that he would welcome this letter.

#### OTHER BUSINESS

The Secretary-Manager referred the Board to copies of a Brochure on the Okanagan Basin Study and other literature related to Okanagan water studies that had been placed before them.

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Water  
Resource  
Conference:

The Secretary-Manager informed the Board of a conference in Ottawa February 16 and 17, entitled "Management of Canada's Water Resources". This conference is jointly sponsored by the Association of Consulting Engineers of Canada, the Engineering Institute of Canada, and the Canada Water Resources Association. Top officials from government agencies will be present. The following topics of interest to the Water Board will be discussed: To what extent are existing agencies equipped for effective water management; what new agencies are likely to be needed as provided for by the Canada Water Act; how can full inter-governmental cooperation be achieved; and the setting and enforcement of water quality standards. The Secretary-Manager will try to acquire a copy of the proceedings of this conference.

Salmon Arm  
Briefs:

The Secretary-Manager informed the Board that copies of briefs and the transcript of proceedings of the November 5th public meeting in Salmon Arm were available at the Water Board office.

Superannuation:

The Chairman informed the Board that the Secretary-Manager wished to participate in a Superannuation scheme under a registered pension plan of the Canada Trust Company rather than under the Municipal Superannuation plan. The Chairman pointed out that since public funds were being used in the operation of the Water Board that the Municipal Superannuation plan should be used for the Secretary-Manager's pension fund. The Board generally agreed with this policy.

Marshall - Duke:

That the Municipal Superannuation Plan be used by the Secretary-Manager.

CARRIED

Mr. Bawtree pointed out that the Chairman of the Water Board should be reimbursed for his expenses incurred in placing Christmas messages, from the Water Board to the general public, in the local papers.

Bawtree - Duke:

That Christmas greeting messages which had appeared in local papers be charged to Board administration costs.

CARRIED

Bawtree - Marshall:

That a letter of thanks be sent to Board members who had served during the 1970 term, and will retire from the Board this year.

CARRIED

The next meeting will be held March 4, 1971.

Mayor Duke Moved that the meeting be adjourned. The meeting adjourned at 4:00 p.m.

Secretary-Manager

Chairman

No meetings held

February, 1971

1. 1. The first

## AGENDA

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1.1.3.3. WASTE TREATMENT AND DISPOSAL

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MINUTES OF THE MEETING OF THE OKANAGAN BASIN WATER BOARD HELD MARCH 4, 1971 at 2:00 p.m. IN THE OFFICES OF THE REGIONAL DISTRICT OF CENTRAL OKANAGAN, 540 GROVES AVENUE, KELOWNA, B.C.

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Present: W.C. Bennett R.D.C.O.  
M. Marshall R.D.C.O.  
L. Bawtree R.D.N.O.  
P. Duke R.D.N.O.  
Mrs. G.V. Lawrence R.D.O.S.

Also in Attendance:

Mayor Halina	City of Vernon
Mayor Roth	City of Kelowna
Ivor Jackson	Observer, Peachland
J.E. Kerr	Observer, Regional District of Columbia-Shuswap
T. Wallace	Agronomist, Range Division, B.C. Forest Service
M. Thomson	Study Director, Okanagan Basin Study
E.F. Lawrence	Director of Operations, City of Kelowna
J.M. Hamilton	City Engineer, Penticton

Press and Radio:

Vernon News, Kelowna Courier, Penticton Herald, CKOK Radio,  
CKOV Radio

The Chairman welcomed Mrs. Lawrence and Mr. Kerr to the meeting.

Minutes: Duke - Marshall:

That the minutes of the meeting of January 8, 1971 be adopted  
as circulated.

CARRIED

Accounts: The following accounts were presented for payment.

Regional District of Central Okanagan (Feb. 1-28)	\$207.66
Vernon News	9.00
Secretary-Manager expenses (Jan. 29-March 4, 1971)	62.19
	<hr/>
TOTAL	<u>\$278.85</u>

Bawtree - Marshall:

That the above accounts totaling \$278.85 be paid.

CARRIED

Correspondence:

The following letters were read:

City of Kelowna Observers:	1. City of Kelowna - appointing Mayor Hilbert Roth and Mr. E.F. Lawrence as non-voting observers to the Okanagan Basin Water Board. Alderman Alan Moss was appointed alternate to his Worship Mayor Roth, all for the year 1971.
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MINUTES OF THE MEETING OF THE OKANAGAN BASIN WATER BOARD HELD  
MARCH 4, 1971.

2

R.D.C.S.  
Observer:

2. Regional District of Columbia-Shuswap - appointing Mr. J.E. Kerr as observer on behalf of the Regional District for the 1971 term.

City of  
Kelowna Use  
of Urea -  
Airport:

3. City of Kelowna - letter in reply to the Okanagan Basin Water Board letter questioning the use of urea as an anti-icing agent at the City Airport. The City's letter described the use of urea on the Airport, stating amounts that had been used in past years. During the 1970 - 71 winter period, 42,500 lbs. of urea were used on the runway. Urea is composed of 45 to 47% nitrogen by weight. The possibility of urea causing a nitrogen enrichment of Mill Creek has not been considered a serious problem to date; however Mr. Alcock of the South Okanagan Health Unit will be testing sub-surface waters as they appear in the drainage system of the Airport.

Mr. Lawrence informed the meeting that Mr. Alcock had gathered some samples already and these were sent to Victoria for testing. Mr. McCrea of the Federal Department of Transport had earlier stated that his Department was also investigating the leaching of urea at various Airports in the country. Preliminary test results indicate that there is not an extensive leaching problem. Mr. Lawrence would forward the results of the Health Department tests and the Department of Transport studies to the Water Board when they are received.

Inventory of  
Waste  
Discharges:

4. A.M. Thomson, Study Director - letter in reply to Okanagan Basin Water Board letter requesting an inventory of all waste discharges to the Okanagan and Similkameen River systems. Mr. Thomson's letter stated that an inventory of all the positive discharges was being compiled. Most of the discharge locations were located, but would have to be properly tabulated on a plan before they could be made available to the Water Board in approximately 3 or 4 months.

Appointment to  
Socio-Economic  
Task Group:

5. A.M. Thomson, Study Director - letter stating that the Study Committee of the Canada-British Columbia Okanagan Basin Agreement requests that the Okanagan Basin Water Board consider the appointment of W. Parchomchuk, Secretary-Manager, to the Socio-Economic Task Group as a working member. This representation has been approved by the Canada-British Columbia Consultative Board.

Members of the Water Board agreed that this would be a desirable appointment and would help strengthen communications with the Okanagan Basin Study Committee.

Marshall - Duke:

That the Water Board approve the appointment of Mr. W. Parchomchuk to the Socio-Economic Task Group as a working member.

CARRIED

Request for  
Lumby Meeting:

6. Lumby Chamber of Commerce - letter inviting the Water Board to hold a meeting in Lumby in the near future.

The Chairman asked Mayor Duke when this meeting could be scheduled. Mayor Duke replied that September would be a suitable time. It was agreed that the Board would contact the Lumby Chamber of Commerce in arranging for a meeting in that area.

New Business:

Snow Bulletin:

The Secretary-Manager presented snowpack results of the February 1st snow survey. As of February the 1st above to well above average water equivalents are reported on almost all

snow courses in the Okanagan and Similkameen areas. This years February 1st snow pack is considerably greater than a year ago especially at higher elevations where most of the runoff originates. In the Similkameen drainage February 1st maximums were established at 3 of the higher elevations sampling sites. As of February 1st winter accumulation in the Okanagan and Similkameen is approximately 25% greater than normal.

However a survey of 27 head water tributary reservoirs showed that only 27% of the required or maximum storage was in place as of February 1st.

Preliminary results from March 1st snow surveys of Mission Creek and Silver Star indicate that a record March 1st snow pack exists on the Mission Creek snow course. As of March 1st the course had a water equivalent of 22.9 inches as compared with a previous high of 21.1 inches. In 1970 this course only had a water equivalent of 11.1 inches - less than half of this years reading. Silver Star Mountain snow course as of March 1st had a water equivalent of 29.2 inches. The record for that date is 32.8 inches. In 1970 this same snow course had only 18.1 inches water equivalent on March 1st.

Generally throughout the lower mainland and the Okanagan, water equivalents are substantially higher, while in the north, water accumulation is low.

Lake Level:

As of February 28, 1971, the level of Okanagan Lake was approximately 6 inches above the agreed minimal level. During the past month the lake has risen approximately two-tenths of a foot. Okanagan River discharges have been kept to a very minimum during the past month. The discharge is only 75 cubic feet per second.

Cattle grazing  
on Watersheds:

The Chairman introduced Mr. Tom Wallace, Agronomist, with the Range Division of the B.C. Forest Service. Mr. Wallace had been invited to the meeting to comment on the significance of cattle grazing in domestic watershed areas, particularly the Naramata watershed.

Mr. Wallace mentioned that some conflict between cattle grazing and domestic watersheds originated in the Naramata domestic system. Mr. Wallace said that his Dept. was concerned with the significance of the situation within the province generally. There was a need for factual information to see whether or not cattle contributed to algae growth and coliform counts in water supplies.

The grazing commission had discussed the Naramata situation with the Naramata Irrigation District. A site investigation survey was done on the watershed to determine whether or not cattle had been significantly contaminating water. Much of the waterworks were on private property. Some of the basins and chlorination stations were fenced, however these fences were down on private properties and some cattle were getting to water storage areas. The grazing division has very little control over cattle on private properties.

As a result of the Naramata Irrigation Districts concern for algae in the water, Dr. Buchanan of the B.C. Water Resources Service, was called on to make a report on the watershed, in June 1970. This report stated that the number of cattle involved

could not be responsible for contributing algae growth, since there were only 75 cattle. A small amount of nitrogen and phosphorous that could be contributed by cattle would be insignificant in adding to algae growth, in the creek.

Subsequent to this time, several tests were taken on the watershed by the Health Unit, and it was found that coliform counts were high at some points. Ranchers had been instructed to keep their cattle away from the main courses which they had been doing under the supervision of the Ranger. Coliform tests were done both in areas frequented by cattle, and areas where cattle were not present. Some tests in waters where cattle had been present were considerably lower than in nearby areas where cattle had not been present. This would suggest that either the tests were not accurate or cattle were not causing coliform contamination.

Mr. Wallace pointed out that coliform in water can originate from many other sources, including plant and other organic materials. The coliform count is only an indicator of what water conditions might be. If cattle were a contributing source, this would have to be directly into water, since cattle wastes deposited on land are effectively filtered by soil. After chlorination there were no coliform in the drinking water.

Mr. Wallace pointed out that there is a need for more complete scientific understanding and reporting of cattle grazing effects in watersheds to avoid erroneous and misleading reports to the public. An agricultural committee has been appointed to study cattle grazing effects on watersheds in B.C. The Pollution Control Branch will study this problem as well.

Mayor Roth asked if it was acceptable to graze cattle along watersheds. Mr. Wallace replied that if practical, cattle should be kept away from the water.

Mayor Roth asked whether fencing would be recommended. Mr. Wallace replied that many other factors contributed to coliform and algae contamination and it would not be necessary to fence large areas of rangeland off. Mayor Roth replied that he felt those areas near reservoirs and domestic intakes should be kept free of cattle. Mr. Wallace generally agreed and stated that his Department was prepared to discuss this matter with the Naramata Irrigation District to resolve the problem.

Mr. Bawtree commented that in a creek near Enderby where cattle have never grazed, chlorination is still required since coliform are present from other unknown sources.

Mayor Halina commented that where concentrations of cattle on private land were contaminating water supplies, something should be done regardless of the ownership of land. Mayor Roth stated that only the critical areas or final collection points of water before domestic consumption should be protected from cattle.

Mr. Bawtree added that persons making statements regarding contamination of water from cattle and other sources should be responsible for these statements. Statements are often made without adequate supporting evidence.

Report on  
Okanagan  
Basin Study  
Seminar  
(Feb. 9-11/71:

A summary report submitted by the Secretary-Manager on the Okanagan Basin Study seminar held in Penticton, February 9-11 had been circulated by mail to the Water Board for their review. Several items concerning local participation in the Study were suggested at the end of the report for Water Board consideration at this meeting.

The report contained brief summaries of the Okanagan Basin Study progress as well.

The Chairman asked if there were any comments concerning the report.

Mayor Halina suggested that the aims of the people of the Okanagan as to their future objectives should be considered. The people should decide what they wish for the future of the Valley. The Water Board should advise the Okanagan Study to what end we wish the studies to be directed. The studies should be related to the desires and the objectives of the people when it is complete.

The Chairman suggested that when the Study report is complete and made available to the Water Board the Board should then consider future growth and development alternatives for the Valley.

Mr. Thomson stated that involvement of the public is desirable at various stages of the study. The study will cover various alternatives for Okanagan development. Final decisions as to which alternatives will be selected concerning the Valley future will rest with local people.

Mayor Halina suggested that the study committee should acquire some idea at this time as to what the people want. The public should be asked to contribute some of their thinking as to the development of the Valley at this time.

Mr. Thomson agreed that this would be desirable.

The Chairman inquired whether the Board felt there should be public meetings soon. Mayor Halina suggested that the Board should find out whether they are speaking on behalf of the public in their recommendations for the future of the Valley.

Mayor Roth said he thought public meetings were being arranged.

Mr. Thomson suggested that the Water Board may wish to work directly with the public or with the public and the Canada-British Columbia Consultative Board combined.

Mayor Roth felt that the study should be more complete before adequate decisions can be made on alternative development courses for the Okanagan.

Mr. Bawtree said that his views are quite similar to Mayor Halina's. He expressed concern over the preliminary agricultural forecast made by Mr. Thomas and Dr. O'Riordan of the Socio-Economic Task Group. The forecast indicates a sharp decline in agriculture in the Okanagan to the year 2020. Mr. Bawtree felt that this was a very serious statement to make. He felt that the people of the Okanagan should have more influence in shaping the future. The Water Board should try to preserve land and water from being despoiled by expanding industry. Much of the amiable environment of the Okanagan is formed by the existence of the varied fruit, and other agricultural landscapes.



The Chairman asked Mr. Bawtree how it would be possible to stop population increases in order to preserve the present environment of the Okanagan. Mr. Bawtree replied that the population would have to be placed in appropriate locations. The development of vast residences and industrial complexes from wall to wall of the Valley would not be desirable. The Valley would lose its present high quality of environment if it were carpeted with industry and domestic development. These things must be put in the right place. Tax reforms, and other major changes in government policy would be required to protect the condition of the Okanagan.

Mayor Halina has observed that larger cities receiving an influx of industry have not been helped by their increasing tax base. The mill rate continues to increase. Extra surges of population looking for employment are a burden on residents established in the area. He went on to say that there are not too many Okanagan Valleys in Canada. There should be a place such as this preserved for people to come to relax and live. He stressed that it was important for personnel conducting the Okanagan Basin Study to find out what the aims of the local people are.

The Secretary-Manager asked Mr. Thomson if there would be an opportunity in the study programming for the sentiments and ideas as expressed by Mayor Halina and others to be included within the study development. Mr. Thomson said that much would depend on the initiative of local groups and the Water Board in feeding this information to the Study group.

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The Secretary-Manager suggested that there should be more contact made at the Technical level with Okanagan Basin Study personnel before the general public is consulted to a large extent. More information should be exchanged with the waste treatment task group.

The Chairman asked the Board whether it would be desirable to arrange a meeting with local personnel and the waste treatment task group. The Board thought that this was a good suggestion.

Mr. Lawrence stated that it would be desirable to know what the recommendations are of the waste treatment task group concerning pilot projects.

Mr. Bennett suggested that the Board arrange for a meeting with the task group on April 1st, either in the morning or the afternoon. The Board would meet separately on the same day as well.

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The Chairman questioned the Board further as to Mayor Halina's suggestions for public consultations and public meetings. Mayor Halina replied that public meetings could be held at any time now in Vernon and a good turnout could be expected.

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The Secretary-Manager suggested that when seeking information on the Okanagan Basin Study that more questions of a specific nature be asked.

Mayor Halina said he had a specific question regarding pilot projects on treatment of sewage effluent. He mentioned that the Vernon scheme for spray irrigation with sewage effluent was well advanced. He wished to know whether personnel from

MINUTES OF THE MEETING OF THE OKANAGAN BASIN WATER BOARD HELD  
MARCH 4, 1971.

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the Okanagan Basin Study would be available for technical advice and monitoring. Mr. Thomson replied that if a letter were forwarded to the Okanagan Study Committee that some information would be available on this project.

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The Secretary-Manager asked the Board if there were any comments as to expectations which the Water Board expected to derive from the results of the Okanagan Basin Study.

Mr. Bawtree replied that one of the expectations would be recommendations as to how we can locally preserve the quality of the Okanagan environment and direct forecasts of the Okanagan Valley towards the objectives of the people rather than to have it develop on its own course in a manner which may not be desirable.

Mr. Marshall continued on this theme saying that if we wish to influence the future development of the Valley, action would have to start soon.

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The Chairman asked Mr. Thomson if he had any additional information he wished to relate on the progress of the Okanagan Basin Study. Mr. Thomson replied that a limnology technical staff is now in the field to begin monitoring of the lake system. Two technicians are presently in the Valley finalizing the land use studies. As of April 1st, a full time ecologist from the Fisheries Research Board of Canada will be in the field.

Other Business:

Superannuation:

The Chairman drew the Board's attention to a letter from the Superannuation Branch requiring that the Water Board pass a resolution requesting that the employees of the Water Board be eligible for benefits under the Municipal Superannuation Act.

The Resolution reads as follows:

"RESOLVED that the Honourable W.D. Black, Provincial Secretary, Parliament Buildings, Victoria, British Columbia be requested to declare the provisions of the Municipal Superannuation Act to apply to the Okanagan Basin Water Board and its eligible employees under Section 3 of the Municipal Superannuation Act effective January 1st, 1971. It is further resolved that the eligibility of the following employees be approved under Section 3(2)(b) of the Municipal Superannuation Act:"

W. Parchomchuk

The resolution was passed by a unanimous vote.

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Canadian Water  
Resources  
Association-  
U.S.S.R. tour:

The Secretary-Manager informed the Board that the Canadian Water Resources Association was tentatively planning a tour of the water development of the U.S.S.R. Interested members were welcome to apply to go on this tour.

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MINUTES OF THE MEETING OF THE OKANAGAN BASIN WATER BOARD HELD  
MARCH 4, 1971.

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Mr. Bawtree informed the Board that the City of Enderby had been trying to acquire a Pollution Control Permit for garbage disposal since June 3, 1970. The City has been incurring long delays with the Pollution Control Branch in getting the permit. The permit still has not been granted. Mr. Bawtree suggested that the Water Board try to arrange a meeting with the Director of Pollution Control to see if these long delays in granting permits can be resolved.

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Bawtree - Duke:

Pollution Control Permits: That the Water Board ask the Director of the Pollution Control Branch to attend a meeting to discuss ways to reduce the time period in processing permits.

CARRIED

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Brandt's Creek: Mayor Roth informed that the City of Kelowna and the industries along Brandt's Creek had entered into an agreement for a new treatment plant in that area. Wastes will be treated to a high degree.

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Study Plan & Aerial Mosaic: Copies of the Okanagan Basin Study plan describing each of the tasks in the Okanagan Basin Study were distributed to the Board members. An aerial photo mosaic covering the entire Okanagan Valley was displayed at the meeting. The mosaic was made available to the Water Board by the B.C. Water Resources Service.

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Mr. Marshall moved that the meeting adjourn. The meeting adjourned at 4:15 p.m.

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Secretary-Manager

\_\_\_\_\_  
Chairman

MINUTES OF THE MEETING OF THE OKANAGAN BASIN WATER BOARD HELD MARCH 4, 1971 at 2:00 p.m. IN THE OFFICES OF THE REGIONAL DISTRICT OF CENTRAL OKANAGAN, 540 GROVES AVENUE, KELOWNA, B.C.

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Present: W.C. Bennett R.D.C.O.  
M. Marshall R.D.C.O.  
L. Bawtree R.D.N.O.  
P. Duke R.D.N.O.  
Mrs. G.V. Lawrence R.D.O.S.

Also in Attendance:

Mayor Halina	City of Vernon
Mayor Roth	City of Kelowna
Ivor Jackson	Observer, Peachland
J.E. Kerr	Observer, Regional District of Columbia-Shuswap
T. Wallace	Agronomist, Range Division, B.C. Forest Service
M. Thomson	Study Director, Okanagan Basin Study
E.F. Lawrence	Director of Operations, City of Kelowna
J.M. Hamilton	City Engineer, Penticton

Press and Radio:

Vernon News, Kelowna Courier, Penticton Herald, CKOK Radio,  
CKOV Radio

The Chairman welcomed Mrs. Lawrence and Mr. Kerr to the meeting.

Minutes: Duke - Marshall:

That the minutes of the meeting of January 8, 1971 be adopted  
as circulated.

CARRIED

Accounts: The following accounts were presented for payment.

Regional District of Central Okanagan (Feb. 1-28)	\$207.66
Vernon News	9.00
Secretary-Manager expenses (Jan. 29-March 4, 1971)	62.19
	<hr/>
TOTAL	<u>\$278.85</u>

Bawtree - Marshall:

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CARRIED

Correspondence:

The following letters were read:

City of Kelowna Observers:	1. City of Kelowna - appointing Mayor Hilbert Roth and Mr. E.F. Lawrence as non-voting observers to the Okanagan Basin Water Board. Alderman Alan Moss was appointed alternate to his Worship Mayor Roth, all for the year 1971.
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MINUTES OF THE MEETING OF THE OKANAGAN BASIN WATER BOARD HELD  
MARCH 4, 1971.

2

R.D.C.S.  
Observer:

2. Regional District of Columbia-Shuswap - appointing Mr. J.E. Kerr as observer on behalf of the Regional District for the 1971 term.

City of  
Kelowna Use  
of Urea -  
Airport:

3. City of Kelowna - letter in reply to the Okanagan Basin Water Board letter questioning the use of urea as an anti-icing agent at the City Airport. The City's letter described the use of urea on the Airport, stating amounts that had been used in past years. During the 1970 - 71 winter period, 42,500 lbs. of urea were used on the runway. Urea is composed of 45 to 47% nitrogen by weight. The possibility of urea causing a nitrogen enrichment of Mill Creek has not been considered a serious problem to date; however Mr. Alcock of the South Okanagan Health Unit will be testing sub-surface waters as they appear in the drainage system of the Airport.

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Inventory of  
Waste  
Discharges:

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Appointment to  
Socio-Economic  
Task Group:

5. A.M. Thomson, Study Director - letter stating that the Study Committee of the Canada-British Columbia Okanagan Basin Agreement requests that the Okanagan Basin Water Board consider the appointment of W. Parchomchuk, Secretary-Manager, to the Socio-Economic Task Group as a working member. This representation has been approved by the Canada-British Columbia Consultative Board.

Members of the Water Board agreed that this would be a desirable appointment and would help strengthen communications with the Okanagan Basin Study Committee.

Marshall - Duke:

That the Water Board approve the appointment of Mr. W. Parchomchuk to the Socio-Economic Task Group as a working member.

CARRIED

Request for  
Lumby Meeting:

6. Lumby Chamber of Commerce - letter inviting the Water Board to hold a meeting in Lumby in the near future.

The Chairman asked Mayor Duke when this meeting could be scheduled. Mayor Duke replied that September would be a suitable time. It was agreed that the Board would contact the Lumby Chamber of Commerce in arranging for a meeting in that area.

New Business:

Snow Bulletin:

The Secretary-Manager presented snowpack results of the February 1st snow survey. As of February the 1st above to well above average water equivalents are reported on almost all

snow courses in the Okanagan and Similkameen areas. This years February 1st snow pack is considerably greater than a year ago especially at higher elevations where most of the runoff originates. In the Similkameen drainage February 1st maximums were established at 3 of the higher elevations sampling sites. As of February 1st winter accumulation in the Okanagan and Similkameen is approximately 25% greater than normal.

However a survey of 27 head water tributary reservoirs showed that only 27% of the required or maximum storage was in place as of February 1st.

Preliminary results from March 1st snow surveys of Mission Creek and Silver Star indicate that a record March 1st snow pack exists on the Mission Creek snow course. As of March 1st the course had a water equivalent of 22.9 inches as compared with a previous high of 21.1 inches. In 1970 this course only had a water equivalent of 11.1 inches - less than half of this years reading. Silver Star Mountain snow course as of March 1st had a water equivalent of 29.2 inches. The record for that date is 32.8 inches. In 1970 this same snow course had only 18.1 inches water equivalent on March 1st.

Generally throughout the lower mainland and the Okanagan, water equivalents are substantially higher, while in the north, water accumulation is low.

Lake Level:

As of February 28, 1971, the level of Okanagan Lake was approximately 6 inches above the agreed minimal level. During the past month the lake has risen approximately two-tenths of a foot. Okanagan River discharges have been kept to a very minimum during the past month. The discharge is only 75 cubic feet per second.

Cattle grazing  
on Watersheds:

The Chairman introduced Mr. Tom Wallace, Agronomist, with the Range Division of the B.C. Forest Service. Mr. Wallace had been invited to the meeting to comment on the significance of cattle grazing in domestic watershed areas, particularly the Naramata watershed.

Mr. Wallace mentioned that some conflict between cattle grazing and domestic watersheds originated in the Naramata domestic system. Mr. Wallace said that his Dept. was concerned with the significance of the situation within the province generally. There was a need for factual information to see whether or not cattle contributed to algae growth and coliform counts in water supplies.

The grazing commission had discussed the Naramata situation with the Naramata Irrigation District. A site investigation survey was done on the watershed to determine whether or not cattle had been significantly contaminating water. Much of the waterworks were on private property. Some of the basins and chlorination stations were fenced, however these fences were down on private properties and some cattle were getting to water storage areas. The grazing division has very little control over cattle on private properties.

As a result of the Naramata Irrigation Districts concern for algae in the water, Dr. Buchanan of the B.C. Water Resources Service, was called on to make a report on the watershed, in June 1970. This report stated that the number of cattle involved

could not be responsible for contributing algae growth, since there were only 75 cattle. A small amount of nitrogen and phosphorous that could be contributed by cattle would be insignificant in adding to algae growth, in the creek.

Subsequent to this time, several tests were taken on the watershed by the Health Unit, and it was found that coliform counts were high at some points. Ranchers had been instructed to keep their cattle away from the main courses which they had been doing under the supervision of the Ranger. Coliform tests were done both in areas frequented by cattle, and areas where cattle were not present. Some tests in waters where cattle had been present were considerably lower than in nearby areas where cattle had not been present. This would suggest that either the tests were not accurate or cattle were not causing coliform contamination.

Mr. Wallace pointed out that coliform in water can originate from many other sources, including plant and other organic materials. The coliform count is only an indicator of what water conditions might be. If cattle were a contributing source, this would have to be directly into water, since cattle wastes deposited on land are effectively filtered by soil. After chlorination there were no coliform in the drinking water.

Mr. Wallace pointed out that there is a need for more complete scientific understanding and reporting of cattle grazing effects in watersheds to avoid erroneous and misleading reports to the public. An agricultural committee has been appointed to study cattle grazing effects on watersheds in B.C. The Pollution Control Branch will study this problem as well.

Mayor Roth asked if it was acceptable to graze cattle along watersheds. Mr. Wallace replied that if practical, cattle should be kept away from the water.

Mayor Roth asked whether fencing would be recommended. Mr. Wallace replied that many other factors contributed to coliform and algae contamination and it would not be necessary to fence large areas of rangeland off. Mayor Roth replied that he felt those areas near reservoirs and domestic intakes should be kept free of cattle. Mr. Wallace generally agreed and stated that his Department was prepared to discuss this matter with the Naramata Irrigation District to resolve the problem.

Mr. Bawtree commented that in a creek near Enderby where cattle have never grazed, chlorination is still required since coliform are present from other unknown sources.

Mayor Halina commented that where concentrations of cattle on private land were contaminating water supplies, something should be done regardless of the ownership of land. Mayor Roth stated that only the critical areas or final collection points of water before domestic consumption should be protected from cattle.

Mr. Bawtree added that persons making statements regarding contamination of water from cattle and other sources should be responsible for these statements. Statements are often made without adequate supporting evidence.

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Report on  
Okanagan  
Basin Study  
Seminar  
(Feb. 9-11/71:

A summary report submitted by the Secretary-Manager on the Okanagan Basin Study seminar held in Penticton, February 9-11 had been circulated by mail to the Water Board for their review. Several items concerning local participation in the Study were suggested at the end of the report for Water Board consideration at this meeting.

The report contained brief summaries of the Okanagan Basin Study progress as well.

The Chairman asked if there were any comments concerning the report.

Mayor Halina suggested that the aims of the people of the Okanagan as to their future objectives should be considered. The people should decide what they wish for the future of the Valley. The Water Board should advise the Okanagan Study to what end we wish the studies to be directed. The studies should be related to the desires and the objectives of the people when it is complete.

The Chairman suggested that when the Study report is complete and made available to the Water Board the Board should then consider future growth and development alternatives for the Valley.

Mr. Thomson stated that involvement of the public is desirable at various stages of the study. The study will cover various alternatives for Okanagan development. Final decisions as to which alternatives will be selected concerning the Valley future will rest with local people.

Mayor Halina suggested that the study committee should acquire some idea at this time as to what the people want. The public should be asked to contribute some of their thinking as to the development of the Valley at this time.

Mr. Thomson agreed that this would be desirable.

The Chairman inquired whether the Board felt there should be public meetings soon. Mayor Halina suggested that the Board should find out whether they are speaking on behalf of the public in their recommendations for the future of the Valley.

Mayor Roth said he thought public meetings were being arranged.

Mr. Thomson suggested that the Water Board may wish to work directly with the public or with the public and the Canada-British Columbia Consultative Board combined.

Mayor Roth felt that the study should be more complete before adequate decisions can be made on alternative development courses for the Okanagan.

Mr. Bawtree said that his views are quite similar to Mayor Halina's. He expressed concern over the preliminary agricultural forecast made by Mr. Thomas and Dr. O'Riordan of the Socio-Economic Task Group. The forecast indicates a sharp decline in agriculture in the Okanagan to the year 2020. Mr. Bawtree felt that this was a very serious statement to make. He felt that the people of the Okanagan should have more influence in shaping the future. The Water Board should try to preserve land and water from being despoiled by expanding industry. Much of the amiable environment of the Okanagan is formed by the existence of the varied fruit, and other agricultural landscapes.



The Chairman asked Mr. Bawtree how it would be possible to stop population increases in order to preserve the present environment of the Okanagan. Mr. Bawtree replied that the population would have to be placed in appropriate locations. The development of vast residences and industrial complexes from wall to wall of the Valley would not be desirable. The Valley would lose its present high quality of environment if it were carpeted with industry and domestic development. These things must be put in the right place. Tax reforms, and other major changes in government policy would be required to protect the condition of the Okanagan.

Mayor Halina has observed that larger cities receiving an influx of industry have not been helped by their increasing tax base. The mill rate continues to increase. Extra surges of population looking for employment are a burden on residents established in the area. He went on to say that there are not too many Okanagan Valleys in Canada. There should be a place such as this preserved for people to come to relax and live. He stressed that it was important for personnel conducting the Okanagan Basin Study to find out what the aims of the local people are.

The Secretary-Manager asked Mr. Thomson if there would be an opportunity in the study programming for the sentiments and ideas as expressed by Mayor Halina and others to be included within the study development. Mr. Thomson said that much would depend on the initiative of local groups and the Water Board in feeding this information to the Study group.

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The Secretary-Manager suggested that there should be more contact made at the Technical level with Okanagan Basin Study personnel before the general public is consulted to a large extent. More information should be exchanged with the waste treatment task group.

The Chairman asked the Board whether it would be desirable to arrange a meeting with local personnel and the waste treatment task group. The Board thought that this was a good suggestion.

Mr. Lawrence stated that it would be desirable to know what the recommendations are of the waste treatment task group concerning pilot projects.

Mr. Bennett suggested that the Board arrange for a meeting with the task group on April 1st, either in the morning or the afternoon. The Board would meet separately on the same day as well.

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The Chairman questioned the Board further as to Mayor Halina's suggestions for public consultations and public meetings. Mayor Halina replied that public meetings could be held at any time now in Vernon and a good turnout could be expected.

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The Secretary-Manager suggested that when seeking information on the Okanagan Basin Study that more questions of a specific nature be asked.

Mayor Halina said he had a specific question regarding pilot projects on treatment of sewage effluent. He mentioned that the Vernon scheme for spray irrigation with sewage effluent was well advanced. He wished to know whether personnel from

MINUTES OF THE MEETING OF THE OKANAGAN BASIN WATER BOARD HELD  
MARCH 4, 1971.

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the Okanagan Basin Study would be available for technical advice and monitoring. Mr. Thomson replied that if a letter were forwarded to the Okanagan Study Committee that some information would be available on this project.

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The Secretary-Manager asked the Board if there were any comments as to expectations which the Water Board expected to derive from the results of the Okanagan Basin Study.

Mr. Bawtree replied that one of the expectations would be recommendations as to how we can locally preserve the quality of the Okanagan environment and direct forecasts of the Okanagan Valley towards the objectives of the people rather than to have it develop on its own course in a manner which may not be desirable.

Mr. Marshall continued on this theme saying that if we wish to influence the future development of the Valley, action would have to start soon.

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The Chairman asked Mr. Thomson if he had any additional information he wished to relate on the progress of the Okanagan Basin Study. Mr. Thomson replied that a limnology technical staff is now in the field to begin monitoring of the lake system. Two technicians are presently in the Valley finalizing the land use studies. As of April 1st, a full time ecologist from the Fisheries Research Board of Canada will be in the field.

Other Business:

Superannuation:

The Chairman drew the Board's attention to a letter from the Superannuation Branch requiring that the Water Board pass a resolution requesting that the employees of the Water Board be eligible for benefits under the Municipal Superannuation Act.

The Resolution reads as follows:

"RESOLVED that the Honourable W.D. Black, Provincial Secretary, Parliament Buildings, Victoria, British Columbia be requested to declare the provisions of the Municipal Superannuation Act to apply to the Okanagan Basin Water Board and its eligible employees under Section 3 of the Municipal Superannuation Act effective January 1st, 1971. It is further resolved that the eligibility of the following employees be approved under Section 3(2)(b) of the Municipal Superannuation Act:"

W. Parchomchuk

The resolution was passed by a unanimous vote.

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Canadian Water  
Resources  
Association-  
U.S.S.R. tour:

The Secretary-Manager informed the Board that the Canadian Water Resources Association was tentatively planning a tour of the water development of the U.S.S.R. Interested members were welcome to apply to go on this tour.

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Mr. Bawtree informed the Board that the City of Enderby had been trying to acquire a Pollution Control Permit for garbage disposal since June 3, 1970. The City has been incurring long delays with the Pollution Control Branch in getting the permit. The permit still has not been granted. Mr. Bawtree suggested that the Water Board try to arrange a meeting with the Director of Pollution Control to see if these long delays in granting permits can be resolved.

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Bawtree -- Duke:

Pollution Control Permits: That the Water Board ask the Director of the Pollution Control Branch to attend a meeting to discuss ways to reduce the time period in processing permits.

CARRIED

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Brandt's Creek: Mayor Roth informed that the City of Kelowna and the industries along Brandt's Creek had entered into an agreement for a new treatment plant in that area. Wastes will be treated to a high degree.

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Study Plan & Aerial Mosaic: Copies of the Okanagan Basin Study plan describing each of the tasks in the Okanagan Basin Study were distributed to the Board members. An aerial photo mosaic covering the entire Okanagan Valley was displayed at the meeting. The mosaic was made available to the Water Board by the B.C. Water Resources Service.

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Mr. Marshall moved that the meeting adjourn. The meeting adjourned at 4:15 p.m.

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Secretary-Manager

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Chairman

OKANAGAN BASIN WATER BOARD

AGENDA

April 1, 1971, 2:00 p.m.

1. Minutes from meeting of March 4, 1971.
2. Accounts.
3. Financial Statements - first quarter.
4. Correspondence:
  - (a) B.E. Marr, Chief Engineer, Water Resources Service - Re: Investigation of groundwater potential in the Lumby area.
  - (b) Naramata Irrigation District - Re: Cattle grazing Naramata Irrigation District Watershed.
  - (c) Association of British Columbia Professional Foresters - Re: Investigation of forestry practice under Okanagan Basin Study.
  - (d) Pollution Control Branch - Re: Distribution of copies of transcript from Inquiry into Waste Management in the Forest Products Industry.
  - (e) B.E. Marr, - Re: Price of Okanagan mosaic.
5. New Business:
  - (a) M. Thomson, Study Director, - Waste Treatment Pilot Projects and Study progress.
  - (b) Snow-pack and Lake level report.
  - (c) Westbank Irrigation District - application for Pollution Control Permit.
  - (d) Report on Agricultural Utilization of Wastewater.
  - (e) Dr. J. O'Riordan and Mr. C.H. Thomas - Public Participation, Okanagan Basin Study.
6. Other Business.

MINUTES OF THE MEETING OF THE OKANAGAN BASIN WATER BOARD HELD APRIL 1, 1971 AT 2:00 p.m. IN THE OFFICES OF THE REGIONAL DISTRICT OF CENTRAL OKANAGAN, 540 Groves Avenue, KELOWNA, B.C.

Present: W.C. Bennett, Chairman R.D.C.O.  
M. Marshall R.D.C.O.  
L. Bawtree R.D.N.O.  
P. Duke R.D.N.O.  
Mrs. G.V. Lawrence R.D.O.S.

Also in Attendance:

Mayor Halina City of Vernon  
M. Thomson Study Director, Okanagan Basin Study  
Dr. J. O'Riordan Socio-Economic Task Group, Okanagan  
Basin Study  
C.H. Thomas Socio-Economic Task Group, Okanagan  
Basin Study  
J.M. Hamilton City Engineer, Penticton

Press and Radio:

Vernon News, Kelowna Courier, Penticton Herald, CKOK Radio, CKOV Radio

The Chairman introduced Mr. Conrad Thomas and Dr. J.O'Riordan, both involved with Socio-Economic aspects of the Okanagan Basin Study, to members of the Water Board.

Minutes: Duke - Marshall:

That the minutes of the meeting of March 4, 1971 be adopted as circulated.

CARRIED

Accounts: The following accounts were presented for payment.

Regional District of Central Okanagan (March 1-31, 1971)	\$193.65
Okanagan Stationers	5.08
Finley Printing Ltd.,	14.99
Secretary-Manager Expenses (March 4-31, 1971)	<u>15.86</u>
TOTAL	<u>\$229.58</u>

Marshall - Lawrence:

That the above accounts totaling \$229.58 be paid.

CARRIED

Financial Statements: The Secretary-Manager presented financial statements for the first quarter ended March 31, 1971. Total expenditures in the first quarter were \$3,756.33. Assets as of March 31, 1971 were \$1,137.73 cash in the bank.

Correspondence:

The following letters were read:

Groundwater Investigation Lumby: 1. B.E. Marr, Chief Engineer, Water Resources Service - Letter in reply to Okanagan Basin Water Board letter of Feb. 4 asking that the Water Resources Service conduct groundwater investigations in

the Lumby area. Mr. Marr replied that the Water Investigations Branch was not able to conduct these studies under the Okanagan Basin Agreement as funds to establish the groundwater information as required would be large, and present financing does not permit this expenditure.

Naramata  
Watershed:

2. Naramata Irrigation District - letter expressed concern over cattle grazing in the Naramata Irrigation District Watershed. The letter drew particular attention to remarks made by Mr. Tom Wallace, District Grazing Officer, with the Forest Service, at the previous meeting of the Water Board. The Irrigation District letter outlined the various algae and coliform problems in the watershed, expected to be caused by cattle near the water reservoirs and dams.

The Chairman suggested that deliberations concerning cattle in the Naramata Watershed be left to the Grazing Division and the Health Dept. for resolution of the problem.

Mr. Marshall suggested that the reservoir areas be fenced.

Mrs. Lawrence replied that the Irrigation District did not have sufficient funds to fence the critical areas of the Watershed, however in areas that were fenced the gates were left open by property owners.

The Chairman suggested that a copy of the remarks of the Naramata Irrigation District be forwarded to Mr. Tom Wallace, Grazing Officer, for the Forest Service.

Forestry  
Studies:

3. Association of B.C. Professional Foresters - letter concerning forestry studies and assessments to be carried out under the Okanagan Basin Agreement. The Association of Professional Foresters requested that professional foresters be consulted in forestry studies of the Okanagan Basin as they relate to watershed management. The Association offered their assistance in directing members of the study to appropriate government, university and other professional offices for consultation and advice.

The Chairman asked Mr. Thomson whether the Okanagan Basin Study Directors would be consulting forestry personnel from both governments. Mr. Thomson replied that they were asking for an overview of forestry practices and potential in the Okanagan from government staff and the University of B.C. Mr. Thomson went on to say that forest aspects of watershed management had been overlooked in the first stages of the study.

The Secretary-Manager asked Mr. Thomson whether local government foresters and industrial foresters would be consulted for their advice on forest practices as they relate to watershed management in the Okanagan. Mr. Thomson replied that if the information that will be gathered from the B.C. Government staff in Victoria and faculty at U.B.C. is not adequate then they will consult local foresters and industry.

The Chairman suggested that the Association of B.C. Foresters be thanked for their consideration.

Transcript  
of Inquiry  
into Forest  
Products  
Indust:

4. B.C. Pollution Control Branch - letter stating that copies consisting of 10 volumes of the transcript of the public inquiry into waste management and environmental control in the forest products industry were distributed to various centres throughout the province. The nearest centre that was available for local reference was at the district managers office, Pollution Control Branch, Court House, Vernon, B.C.

Mosaic: 5. B.E. Marr - letter stating that complete copies of the Okanagan Aerial mosaic was available for \$5.00 a copy plus tax and freight charges.

The Secretary-Manager informed that several persons had approached him for copies of this mosaic and he had ordered five copies which would be made available to local interested organizations.

New Business

Waste Treatment Projects: Mr. Thomson was asked to comment on the waste treatment projects which would be studied this summer under the Okanagan Basin Agreement.

Mr. Thomson informed that the Okanagan Basin Study Committee had recently approved a budget for three waste treatment projects to be carried out at separate centres in the Valley. These included, a soil lysimeter study at Penticton; groundwater monitoring of the effluent spray irrigation system being constructed in Vernon; a lime treatment process to eliminate phosphates along with incineration would be studied at the Kelowna Pollution Control centre.

Mr. Thomson would outline the complete waste treatment program in his next newsletter. A fourth proposal utilizing a carbon column for denitrification will not be implemented because nitrogen was not considered to be a limiting factor in Okanagan Lake. Also, a study of this nature is already being conducted at the Canada Centre for Inland Waters at Burlington.

Waste treatment studies will be initiated this spring. The Pollution Control Branch is currently working out contracts to undertake these studies. Approximately \$230,000 will be spent on waste treatment studies.

A copy of the report outlining the waste treatment proposals was made available to the Secretary-Manager by Mr. Thomson.

Mayor Halina requested that a copy of that portion of the report concerning Vernon be made available to the City.

The Chairman suggested that copies be made available to other centres as well.

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Snowpack & Lake level Report: The Secretary-Manager reported that record and near record snow accumulations were reported in many water courses of the Okanagan and Similkameen drainages on March 1st. A chart showing Okanagan lake level fluctuations was presented to the Board. The chart indicated maximum and minimum lake levels since 1943 and compared these with present lake levels. The present level is still below average for this time of year.

The Secretary-Manager also mentioned that the Water Resources Service were beginning to show concern for the heavy snowpack. Discharges from Okanagan Lake were being increased in order to accommodate the expected high runoff into the Lake.

Mr. Hamilton commented that currently there is a large discharge in the river to draw down the lake level. If water has to be discharged it must be done at this time of the year rather than during runoff as complications could arise with water backing up from the Similkameen River thereby restricting the amount of flow that can be discharged through the Okanagan channel.

The Secretary-Manager and members of the Board expressed concern over the amount of water that was being currently discharged in view of the situation that had occurred last year where water had been let out of the lake, and subsequent below average inflow, only half filled the lower reservoir. The upper elevation reservoirs which had been largely depleted last year will have to be filled. Groundwater systems are dry and must first be recharged before the runoff. Considering these factors and the current low level of Okanagan Lake, some caution should be exercised so that too much water is not discharged from the lake this season.

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Westbank  
Irrigation  
District,  
Application  
for  
Pollution  
Control  
Permit:

The Secretary-Manager drew the Board's attention to an application for a Pollution Control Permit made by Westbank Irrigation District, Westbank, B.C., to discharge effluent from the domestic sewage lagoons into Smith Creek which flows into Okanagan Lake. The amount of discharge would be 100,000 gals. daily. This is almost three times the amount approved in the original Irrigation District permit. The Secretary-Manager said that a direct discharge of effluent of this nature was not recommended for Okanagan Lake. He suggested that the Irrigation District be required to irrigate with the entire flow from the lagoon for at least an eight month period during the summer months. This would in effect remove up to 80% of the yearly lagoon discharge to Okanagan Lake.

However, this suggestion should not preclude any considerations of the Pollution Control Branch engineers which may require a higher treatment and higher standard of effluent than outlined in the Pollution Control application.

Marshall - Bawtree:

That a letter be forwarded to the Pollution Control Branch suggesting the alternative of crop irrigation of sewage effluent from the Westbank Irrigation District lagoon, rather than discharge to Okanagan Lake.

CARRIED

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Report on  
Agricultural  
Utilization  
of Waste-  
water:

A report prepared by the Secretary-Manager dealing with the agricultural utilization of wastewater was distributed to board members to read. Discussion would be reserved until the next meeting of the Water Board.

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Socio-Economic  
Studies &  
Public

The Chairman introduced Mr. C.H. Thomas and Dr. J. O'Riordan of the Socio-Economic Task Group under the Okanagan Basin Study.

Participation,  
C.H. Thomas:

In his presentation, Mr. Thomas informed that there were two topics being investigated under the socio-economic studies. These are, Economic base studies and public participation. Mr. Thomas said that there may have been some misinterpretations by the press and other media as to his statements on agricultural forecasts for the Valley. In 50 years about 5% of total industry will be employed by agriculture. This is not the same as saying that agriculture will decline to 5% within the next 50 years.

The leading growth sector in terms of employment will be the tertiary industries followed by manufacturing and construction. Agriculture is expected to decline rapidly in relative importance falling from approximately 17% of its employment in 1961 to less than



5% by 2020. Gradual declines in the number of persons directly employed in agriculture is also expected. An upward trend is anticipated in milk and grape production. Marketing problems and loss of land to non-agricultural uses will likely result in a marked reduction in tree fruit acreage, particularly in apples. However, more intensive production methods will continue to raise physical output. As a result the fruit processing industries and other packing businesses will not be greatly affected.

Tree fruit acreage may have to be reduced in the short run, however in fifty years it should be about the same as at present. There is no prediction of the elimination of agriculture, but efficiencies will have to improve. The industry will be limited in the future to the western market.

Public Participation: Referring to public participation, Mr. Conrad Thomas mentioned that a program has been designed professionally and is being considered by authorities for approval. Extensive participation is planned. He went on to say that the Okanagan Basin Water Board should initiate some public participation without waiting for the Canada-British Columbia Consultative Board. He felt that the Water Board has a definite role to play in the public participation aspects of the study. Public contact would provide some base information as to what the people in the Okanagan wish to see.

The Okanagan Basin Water Board as the representative of citizens in the Valley, should receive public information so that the study does not start from scratch. Public participation is a new idea and the techniques to best accomplish this participation are not always entirely clear. This group should start to initiate some ideas.

The Secretary-Manager said that he agreed that the Okanagan Basin Water Board would be used extensively in public participation, but that this program of participation would be organized and conducted jointly with the staff of the Okanagan Basin Study. The Water Board was currently awaiting professional advice from the staff of the Okanagan Basin Study. A professionally designed program of public participation would be more desirable than merely the conventional public meeting approach. The Water Board expected to get professional advice and assistance from the Okanagan Basin Study.

Mr. Thomas agreed with the items the Secretary-Manager had raised, he added that large meetings often do not accomplish very much. The public should be provided with the information to give them the opportunity to start thinking about the future of the Okanagan.

Mayor Halina commented that people in the Valley would like to contribute to the study, they must have some thoughts and feelings concerning the Okanagan. If meetings are called, the public would at least have an opportunity to contribute something, possibly that the Study had not thought of before. The public should take part in the initial discussions and planning. The final plan design could be done by more professional people.

Mr. Marshall agreed with Mayor Halina's thinking. However, in the end the public will want to have recommendations as a result of the study. They will also want to know where money has been spent. Questioning further, Mr. Marshall asked whether the future of the Okanagan vegetable industry has been considered. Mr. Thomas replied that this will be reviewed, even though vegetable acreage in the Okanagan is small compared to other crops.

Mayor Duke pointed out that at a recent U.B.C.M. convention the Minister of Housing predicted that the lower mainland would almost be entirely occupied by housing. This would create a greater demand on Okanagan agricultural areas. Mr. Thomas replied that he did not envisage that the true agricultural regions of the lower mainland would be entirely removed from agriculture. The dairy industry would still supply the lower mainland.

Mrs. Lawrence asked Mr. Thomas whether consideration had been given to the increasing tourist pressures on parks and recreation areas. This could adversely affect the cattle grazing industry. Mr. Thomas agreed that society is placing a greater emphasis on recreation, watersheds, and wilderness areas, but this did not necessarily have to adversely affect the cattle industry. With proper management the land can be used for many purposes simultaneously.

In response to Mr. Marshall's concern for recommendations from the Okanagan Basin Study, Mr. Thomson reassured him that the Study would offer recommendations in the end.

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Dr. J. O'Riordan, The Chairman introduced Dr. O'Riordan who then proceeded  
Public with a short talk on public participation in the Okanagan Basin Study.  
Participation:

Dr. O'Riordan mentioned that his outlined program of public participation has not been finally approved by the Canada British Columbia Consultative Board, but he hoped that approval would be received at a meeting in April. The public participation alternatives he would outline today are not necessarily the types of participation that would be implemented under the Okanagan Basin Study. These would merely be suggested approaches.

Dr. O'Riordan said there were basically two strategies for achieving public participation. These are induced, and indicative.

Induced participation is the most common form. It has been conventionally used in many basic studies over the past thirty years or more. In this method planners present the public with their plan at formal public meetings after the plan has been drawn up.

The public does not participate through the entire planning phase. Participation only occurs when the plan is presented. It is this lack of public participation which often leads to rejection of the plan when it is finally presented.

On the other hand, during indicative participation instead of planners acting on their own until the plan is produced, they would act concurrently with the public and receive feedback throughout the study. There would be constant consultation and dialogue before the final plan is developed. This is a new type of strategy and it has been used only in more recent studies. Dr. O'Riordan said that he would like to implement this type of public participation in the Okanagan Basin Study. Indicative participation has taken place in the Susquehanna River Basin in the Eastern United States.

Dr. O'Riordan outlined the following five planning steps that would be followed under a programme of indicative participation:

1. Need for change - It must be recognized that something is wrong in order for there to be pressure to bring about change. E.g. improvements in water quality are desired.
2. Establish change relationship - Changes required, are analyzed. This would involve studies of water quality and assessments of water demands, etc.
3. Stabilization of change - During this step, alternatives are identified. How the change can best be accomplished is analyzed. This step may be repeated often.
4. The formal plan is drawn.
5. Relationships - To make sure the public is involved in the implementation stage and also to identify areas where the plan did not meet objectives.

The following public participation programme would run concurrently with the above planning steps:

1. Stimulation - There must be stimulation that creates a need for change. This stimulation usually comes from technical experts, from people in the Basin themselves, and third parties such as industrialists.
2. Key influentials - In the Valley there is a group of people who because of their influence, will have a bearing on the decision making process. These influential people are usually technical experts and civic leaders. Key influential people should be identified and their goals established as to development and direction of Valley growth.
3. Legitimization Process - This is the key aspect of public participation in planning. The planning agencies and key influentials would meet in a series of workshops to present their particular goals. Conflicts would be resolved, an understanding of the various goals should be acquired, and then the key influentials would sponsor a series of meetings.
4. The formal plan would then be presented at a public meeting or hearing.

Mr. Marshall asked how it would be possible to get people out to meetings. Dr. O'Riordan said this would depend on key influential people and how they react to stimulate interest. It may not be possible to get more than 10% of the people to meetings. The public could get interested through talks, radio, newsletters, and other news media. A professional sociologist should be hired to coordinate the programme.

Mr. Bawtree remarked that often one small point of a plan is picked on at a public meeting and the meeting does not accomplish very much in a general way.

Dr. O'Riordan said that representative groups, such as Fish and Game clubs, Agriculture and various others would make statements and then interact on these statements at smaller workshops. Public meetings would then follow this type of preliminary meeting.

Public  
Meeting:

Mayor Halina said the fact that the Okanagan Basin Water Board is in existence indicates that the people of the Okanagan Valley are looking for a change in their environment. With an outside agency looking toward changes in the Okanagan there should be a tremendous interest developing. The official positions which are held by local representatives should be utilized. The Water Board is a representative of the people of the Okanagan. Discussions with the general public should be encouraged to inform the public what we wish to accomplish. After discussions with the public we could come up with a general plan, which would later be refined. Mayor Halina was confident that the people in the Vernon area would be interested and a meeting could be arranged there first. The Water Board should take an initiative in this type of meeting.

The Chairman asked Mayor Halina if he would be in favour of a meeting in Vernon in Mid-May. Mayor Halina said this would be fine.

Mayor Duke recalled that at a Water Board meeting in Lumby last year, many small groups had an opportunity to present their views. The Chairman asked whether briefs should be presented at a Vernon meeting. Mayor Duke replied that this should not be necessary.

Mr. Bawtree suggested that in order for this plan to be workable there should be a workshop type of meeting first.

Dr. O'Riordan added that the approach to public participation had to be structured. He felt that there was already some stimulation, but there must be some more communication with key influentials.

The Chairman asked if the Board then wished to set up a workshop at first. Mr. Bawtree said that the programme should be aimed at the residents of the Valley. Workshops could be set up first utilizing small groups, such as Fish & Game, Industrialists, etc.

Mayor Halina said that on the other hand, general public meetings could be held first and then small local committees could be set up to carry on the public participation programme. He said a meeting should be held to explain the whole process and then committees and workshops would form.

Mr. Marshall said that Director's on Regional Boards who represent the public in each of their individual areas, could be used in this programme.

The Chairman remarked that he felt Dr. O'Riordan did not anticipate having the larger public meetings before workshops.

The Secretary-Manager added that although a larger type of public meeting in Vernon as envisaged by Mayor Halina was not exactly in accordance with Dr. O'Riordan's plan. It still would not preclude the carrying out of his plan as he had outlined. The indicative programme of public participation could follow after a public meeting in Vernon. The Vernon meeting would merely be a test to determine what it is the public is thinking presently and to find out how much the public does know about the Okanagan Basin Study.

Dr. O'Riordan asked if this type of meeting would be run by the Okanagan Basin Water Board. The Chairman replied affirmatively.

Mr. Marshall commented that he felt the Secretary-Managers proposal would be a good start.

The Chairman suggested that the Water Board would advertise for such a meeting.

Mayor Halina said that at a public meeting, citizens would be informed what the meeting is about and that items arising from the meeting would be pursued further at workshops. Members of the Okanagan Basin Study would be present at public meetings but would not be expected to take an active part.

The Secretary-Manager in referring to Mayor Halina's comments about informing the public what the meeting is about, asked Mayor Halina if he could clearly state what is the purpose of such a meeting. Mayor Halina replied that the meeting would serve to tell the public what the Water Board is and what it is presently doing. The public would like to know generally in which direction we are going.

Mr. Bawtree commented that our deliberations in public participation and Okanagan Valley Planning are not a direct concern of water management. He questioned whether the other two regional districts besides the Regional District of North Okanagan are in favour of taking on this seemingly extra role.

Mrs. Lawrence replied that a lot of planning is currently being done by the Regional District. The Chairman replied that the planning being done under the Okanagan Basin Study is different than Regional Planning. The Okanagan Basin Study is water use and quality planning only.

Mr. Bawtree replied that there is need to have a coordinated land use plan throughout the Valley as well.

The Chairman asked the Board whether they would consider leaving arrangements for a public meeting in Vernon with the Secretary-Manager, himself, Mayor Halina and members of the Study Group. It was suggested that the meeting be in the evening on a Thursday in May. An agenda for the public meeting could be prepared and presented for approval to the Board at the next meeting.

Mayor Halina informed that due to the May 6th visit of the Queen that this would not be a good day for the regular meeting of the Water Board. The Chairman suggested that the meeting would then have to be moved to the afternoon of May 13th.

The Chairman said that an agenda for the public meeting would be sent out beforehand to the Board members for their approval. Mr. Thomas and Dr. O'Riordan would give assistance in drafting up an agenda.

The meeting adjourned at 4:15 p.m.

---

Secretary-Manager

---

Chairman

OKANAGAN BASIN WATER BOARD

AGENDA

May 13, 1971, 2:00 p.m.

1. Minutes from meeting of April 1, 1971.
2. Accounts.
3. Auditors report.
4. Correspondence:
  - (a) City of Penticton - Request for mercury testing.
  - (b) Lumby Chamber of Commerce and Agriculture - Confirmation of fall meeting in Lumby.
  - (c) M. Thomson - Water Board to be supplied with all future reports on Okanagan Basin Study.
5. Report of Secretary-Manager.
6. New Business:
  - (a) Snow-pack and lake levels.
  - (b) Report on Agricultural Utilization of Wastewater - discussion.
  - (c) Arrangements for public meeting - Vernon.
  - (d) Water Resources Act, Bill No. 79 - Distribution only.
  - (e) Pollution Control Permits.
7. Other Business:

OKANAGAN BASIN WATER BOARD

NOTICE

A regular meeting of the Okanagan Basin Water Board will be held on Thursday May 13, 1971 at 2:00 p.m. in the offices of the Regional District of Central Okanagan, 540 Groves Avenue, Kelowna, B.C.

In addition to the above meeting, members of the Waste Treatment Task Group under the Okanagan Basin Study will meet with Water Board Directors, City Engineers, and representatives from industries on May 13 at 10:00 a.m. Pilot plants for waste treatment projects will be reviewed along with overall waste treatment problems.

The date for a public meeting in Vernon as discussed at the last Water Board meeting has been set for Wednesday, May 26th, at 8:00 p.m. in the Vernon Civic Centre.

WP/pp

May 3, 1971



## OKANAGAN BASIN WATER BOARD

OFFICE OF  
THE SECRETARY-MANAGER  
540 GROVES AVENUE  
KELOWNA, BRITISH COLUMBIA  
TELEPHONE (604) 763-4918

May 3, 1971

### NOTICE

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W. Parchomchuk  
Secretary-Manager

WP/pp



REPORT OF SECRETARY - MANAGER

(MAY 13)

① April 7th Mission Co. meeting:

Multiple use plan for Mission Co.:

- Fisheries (spawning)
- Recreation (parks + walks)
- Drying

- Dept of Recreation + Conservation (J. Kuen)

- R.D.C.O. (W. Hardcastle)

- Water resources (F. Anthony)

- ~~High~~ Dept of Highway (A.L. Freeborn)

- Dept of Lands (G. Kawa)

W. J. Jassi

W. Pechonchuk

G. Young

② ~~Horizon~~ survey

## ② Meeting with Socio-Economic Task Group - Vietnam - Apr. 23

- Conrad Komar
- John O'Rourke
- +

Research Officers

Overview

(a) Economic Base Study - Report completed  
should be available soon.

Mr. Hanson  
200-300  
pages

- Economic Growth Studies (2nd phase of above)  
still at data gathering stage.

### (b) Land Use Studies (Present)

- Complete
- Written report
- Cataloguing of major categories of  
agricultural land use

222,000 ac. arable
58,000 removed for development
166,000 ac. can be used for arable
99,000 ac. cultivated
65,000 under irrigation

### (c) Water Use Study

- Report complete
  - Details on irrigated land by district
  - Will get info by basin
  - Domestic, & industrial
- for whole basin & major ~~sub-basins~~ hydrologic regions.

for whole basin & major ~~sub-basins~~ hydrologic regions.

- 367,000 ac. ft. now licensed

- Actual diversion use 220,000 ac. ft.

Of this      80%      irrig. use  
                 12%      Industrial use  
                 8%      Domestic use

(d) Shoreline survey to be done this summer.

- Impact of various water levels (<sup>Flood &</sup> low level) on recreation, property, homes etc.

- Shoreline was flown in color at 500' to the inch.

(should yield good info for planners)

- Plant growth near shore will be mapped.

- Dye studies of outfalls

- sewage by map.

(2) ~~has~~ Information on water demand by tributary streams will be gathered

(4) uses of fisherman & recreation use on lake is now very done

#### (9) Institutional Studies

- Federal & provincial Authority in water management has been studied legislation etc.

- Report written

- Will study local institutions involved in water management this summer.

Role of each will be documented:

- local Water Rights
- Pollution Control
- Regional District
- Water Board
- Health

~~regional & provincial~~

- Water Board
- Health



(A) ~~Amelia~~  
Approval for hiring of sociologist for public <sup>contact</sup> ~~participation~~

- Have to house survey

- Contact various groups

(v) Dr. O'Riordan appointed to Study Committee

- Should provide good link.

### TV Interviews

3 programs:

- |                                   |         |
|-----------------------------------|---------|
| - Water Board                     | April 7 |
| - Dr. O'Riordan (Socio-Economics) | Apr. 20 |
| - Dr. Stocker (Psychology)        | Apr. 20 |



W.C. BENNETT

THE CORPORATION OF THE CITY OF PENTICTON

171 Main Street :: PENTICTON, B.C. :: Telephone 492-3043

H. W. COOPER  
CITY ADMINISTRATOR

H. G. ANDREW  
CITY CLERK

APR 23 1971

HA, B. C.

April 22, 1971.

Okanagan Basin Water Board,  
540 Groves Avenue,  
KELOWNA, B. C.

Dear Sirs:

The City Council is concerned with statements made in the South Okanagan Health Unit Annual Report to the effect that mercury is being discharged into Lakes in the Okanagan Valley, and may in due course reach a level which may be deleterious to health. After discussing the matter with Dr. D.A. Clarke, Medical Health Officer, it appears that there may not be adequate testing facilities in the Okanagan Valley to determine the level of mercury.

The City Council urges your Board to provide for testing on a long term and sustained basis for pollution through the discharge of mercury so that we may have adequate information on mercury levels.

Yours truly,

CITY OF PENTICTON

*H. G. Andrew*  
H. G. Andrew,  
City Clerk.

HGA:sf

LUMBY CHAMBER OF COMMERCE  
AND AGRICULTURE

LUMBY, B.C.



April 19, 1971,

P.O.Box 194,  
Lumby, B.C.

Okanagan Basin Water Board,  
540 Groves Ave.,  
Kelowna, B.C.

Dear Sirs,

In reply to your recent letter our executive  
have advised me to invite you to hold your September or  
October meeting here in Lumby.

Thank you for agreeing to this,

Yours truly,

A handwritten signature in cursive script, appearing to read "Basil Edwards".

Basil Edwards,

President.

BF/ek



OKANAGAN  
STUDY COMMITTEE

BRITISH COLUMBIA

T. A. J. LEACH  
M. W. SLEZAK  
E. H. VERNON

CANADA

R. C. HODGES  
L. E. EDGEWORTH  
C. C. STRACHAN

FILE NO. 2601

Office of the Study Director,  
P.O. Box 458,  
Penticton, B.C.

May 10, 1971.



Mr. W. Parchomchuk,  
Secretary-Manager,  
Okanagan Basin Water Board,  
540 Groves Ave.,  
Kelowna, B.C.

Dear Sir:-

At the last meeting of the Study Committee, it was agreed that your office be supplied with one copy of all future reports on the Okanagan Basin Study.

I am, therefore, enclosing one copy of the report - Socio-Economic Task #202 - Agricultural Land Use - for your office, released on May 6, 1971.

Yours very truly,

A handwritten signature in cursive script that reads "A. Murray Thomson".

A. Murray Thomson,  
Study Director.

AMT:RM  
Encl.





FOREST SERVICE

OFFICE OF DISTRICT FORESTER

Kamloops B.C.

April 19 1971

OUR FILE G. Domestic Sheds

YOUR FILE



Mr. W. Parchomchuk, Secretary-Manager,  
Okanagan Basin Water Board,  
540 Groves Ave.,  
Kelowna, B.C.

Dear Sir:

Thank you for your letters of April 6 and March 26. It is our understanding that the Pollution Control Branch will be undertaking studies on the Naramata watershed, but this will not be finally decided until some time in early May.

With regard to the copy of Mr. Pedersen's letter of March 15, we would advise that we had seen the same letter as a letter to the editor in the Penticton Herald.

Mr. Pedersen accuses <sup>us</sup> of not accepting the advice of a professional, but apparently he is not prepared to accept the advice of Dr. Buchanan, who advised in his report that the cattle could not contribute significant amounts of nutrients to the water which were responsible for the formation of algae.

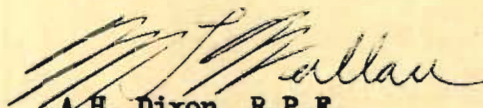
We would not comment on all of Mr. Pedersen's statements, but would advise that up until last year when the tests were taken, they were only concerned about the formation of algae and the coliform count was not considered by them until the tests revealed this fact last year.

Unfortunately the statement with regard to the importance of the Naramata problem was taken out of context by the reporter. The fact is that we are concerned about the problem at Naramata, but there are only 75 head of cattle involved in this particular area. However, the forced removal of this stock from a watershed could set a dangerous precedent which could affect the grazing of cattle throughout the Okanagan and other parts of B.C. *and is the important point*

...2

Once again we wish to thank you and the members  
of the Okanagan Basin Water Board for their interest in the  
problems of the grazing of cattle in domestic water sheds.

Yours truly,

  
for A.H. Dixon, R.P.F.,  
District Forester.

MTW:jmb



W.C.B.

# **Fairview Heights Irrigation District**

CAWSTON, BRITISH COLUMBIA



May 10, 1971.

Okanagan Basin Water Board,  
540 Groves Avenue,  
Kelowna, B.C.

Dear Sir:

I am enclosing a copy of the letter to Hon. W.K. Kiernan opposing the application by the Department of Recreation and Conservation to discharge effluent into Similkameen River.

We would appreciate your support in this matter.

Yours truly,

*L.A. Gardner*  
L.A. Gardner,  
Secretary-Manager

6  
May 7, 1971.

Honourable W.K. Kiernan,  
Department of Recreation and Conservation,  
Parliament Buildings,  
Victoria, B.C.

Dear Sir:

Re: Application for a permit under the Pollution Control Act, 1967 by the Department of Recreation and Conservation of The Government of British Columbia, Victoria, B.C. to discharge effluent from a domestic sewage collection and treatment system located at Manning Provincial Park into Similkameen River.

The Board of Trustees of Fairview Heights Irrigation District objects very strongly to the discharging of sewage effluent into the Similkameen River which is the sole source of drinking water for this Irrigation District.

The Board is appalled that the Government, particularly the Department of Recreation and Conservation, would even consider such an act.

We strongly urge that the Department of Recreation and Conservation withdraw this application.

Yours very truly,

L.A. Gardner  
Secretary to the Trustees

cc: W. Venables, Director of Pollution  
W. Bartley M.L.A.  
Association of B.C.I.D.  
Hon. F. Richter M.L.A.  
Dr. D.A. Clarke, Director South Okanagan Health Unit  
D. Barrett M.L.A., Leader of Opposition  
Okanagan Basin Water Board  
Cawston Board of Trade



OKANAGAN BASIN WATER BOARDAGENDA

July 8, 1971, 2:00 p.m.

1. Minutes from meeting of May 13, 1971.

2. Accounts.

3. Financial Statements.

4. Correspondence:

(a) Pollution Control Branch - re: regulation of agricultural wastes.

(b) L.N.R. Loughheed Building Ltd., - re: Bark accumulation Traders Cove.

Copy to Spolly McKeen

Mrs Philips

5. Briefs submitted subsequent to public meetings, Vernon and Penticton

(a) W.E. Blower VERNON BRIEF

(b) Kaleden Irrigation District PENTICTON BRIEF

MENTION SUMMARIES OF BRIEFS:

18 Briefs Vernon - 120 people  
31 Briefs Penticton - 150 people

6. New Business:

(a) Okanagan Basin Study Reports: (P.C.B. REPORT)  
- Preliminary estimate of present water demands, Task 15(a)  
- Preliminary estimate of future water demands, Task 15(b)  
- An economic study of the Okanagan-Shuswap Region, Task 201  
(MERIDITH JULY 28 PUT OF HERE - 413 BOARD INTERESTED)

(b) Vernon Irrigation District - application for recreation reserve.

(c) Lake levels.  
- Tour of Naramata Irrig District  
- Tour of Similkameen Irrig District  
- MENTION TAKE NOTE OF HIGHWATER MARK

(d) Pollution Control Permits.

- An economic study of the Okanagan-Shuswap Region, Task 201  
(MERIDITH JULY 28 PUT OF HERE - 413 BOARD INTERESTED)

(b) Vernon Irrigation District - application for recreation reserve.

(c) Lake levels.  
- Tour of Naramata Irrig District  
- Tour of Similkameen Irrig District  
- MENTION TAKE NOTE OF HIGHWATER MARK

(d) Pollution Control Permits.

1 July 11  
2 DEPT OF REVENUE & FINANCE 7400-16 PAGE  
3 M.R. 1000 11-21-71 50 LTD

7. Other Business:

No meeting  
held June, 1971

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Minutes for July 8, 1971  
in Original File.

OKANAGAN BASIN WATER BOARD

A G E N D A

September 2, 1971, 2:00 p.m.

1. MINUTES from meeting of July 8, 1971
2. ACCOUNTS
3. CORRESPONDENCE
  - (a) Corporation of the District of Summerland -  
request for assistance to study ground  
water near Trout Creek.
  - (b) V. Raudsepp - Kalamalka - Wood Lake - water quality
  - (c) W.D. Seaton - Kalamalka - Wood Lake - waterquality
4. CROWN ZELLERBACH - report on debris on beaches of  
Okanagan Lake
5. NEW BUSINESS
  - (a) Water Licences
    - Westbank Irrigation District
    - Glenmore Irrigation District
    - John S. Kennedy
  - (b) Pollution Control Permits
  - (c) Bill No. 79 Water Resources Act - Discussion and  
comments to be forwarded to R.G. Williston
  - (d) Dr. J. O'Riordon and C. Thomas - Review of  
Socio-economic studies. Outline public  
participation program.  
D. Bjorback - Industrial Questionnaire
  - (e) Princeton Meeting September 29, 1971
6. OTHER BUSINESS



MINUTES OF THE MEETING OF THE OKANAGAN BASIN WATER BOARD,  
SEPTEMBER 2, 1971 2:00 p.m. IN THE OFFICES OF THE REGIONAL  
DISTRICT OF CENTRAL OKANAGAN KELOWNA, B.C.

---

Present: W.C. Bennett (Chairman) R.D.C.O.  
M. Marshall R.D.C.O.  
L. Bawtree R.D.N.O.  
B.J. Swarder R.D.N.O.  
J. Patterson R.D.N.O.  
P. Farmer R.D.O.S.

Also in Attendance:

Mayor Halina	City of Vernon
Mayor D. Hill	Corporation of Summerland
J.C. Gillard, Administrator	Corporation of Summerland
J. Kerr	R.D.C.S.
Ivor Jackson, Observer	Peachland
J. Hamilton, Engineer	City of Penticton
G. Stevens, Planner	City of Kelowna
Dr. J. O'Riordan, Co-Chairman	Okanagan Basin Study Committee
C. Thomas	Okanagan Basin Study
L. Halliday	Okanagan Basin Study
R.D. Bjorbeck	Okanagan Basin Study
W. Horswell	Okanagan Basin Study
Mrs. G. O'Riordan	

Press and Radio

Vernon News, Penticton Herald, Kelowna Courier, CKOK Radio,  
CKOV Radio, CJIB Radio

---

The Chairman called the meeting to order. He introduced  
several Members of the Okanagan Basin Study attending the  
meeting.

✓ Minutes Bawtree - Marshall

THAT the minutes of the meeting of July 8, 1971 be adopted  
as circulated.

CARRIED

Accounts: Accounts outstanding to September 2, 1971 totaling \$636.36  
were presented for payment.

Swarder - Bawtree

THAT the accounts outstanding, totaling \$636.36, be paid.

CARRIED

Correspondence

The following letters were read:

Summerland 1. Corporation of the District of Summerland - Letter  
Drainage: requesting Water Board assistance in making a study  
of the ground water problem in the Trout Creek area.

Correspondence

The following letters were read:

Summerland 1. Corporation of the District of Summerland - Letter  
Drainage: requesting Water Board assistance in making a study  
of the ground water problem in the Trout Creek area.

The Chairman asked Mayor Hill or Mr. Gillard if they wished  
to make further comment on the letter.

Mr. Gillard explained that currently there were approximately  
200 homes on the Trout Creek Point. Water seepage problems  
in the area have given rise to complaints to the Municipality



doubling the population in the Trout Creek Point area. The use of septic tanks could create a pollution problem with seepage water carrying pollutants to near-by Okanagan Lake.

The Corporation of Summerland would like some advice in dealing with the ground water problem. Is it considered advisable to continue development of the Point? If development does occur some form of sewage treatment will be required. The Corporation does not have the answers to these problems and would like to know what the Okanagan Basin Water Board could do in acquiring advice.

Mr. Gillard emphasized the main concern of the District of Summerland was pollution of ground water by septic tanks; this polluted water then being carried to the lake via ground water channels.

Mayor Hill confirmed Mr. Gillard's remarks, and stated that the ground water flow in the Point was exceptional.

The Chairman asked Mr. Thomas if he felt the Water Resources Service could be of assistance. Mr. Thomas replied that Dr. Poweraker of the Ground Water Division could possibly give information concerning ground water in the Trout Creek area.

Mr. Sworder remarked that septic tanks would not be an effective method of waste treatment in that area. This would add to lake pollution by ground water channels.

The Secretary-Manager had viewed the Trout Creek Point with members of the staff of the District of Summerland. It appeared that the Creek delta was typical of stream deposits; the structure of soil layers being such that ground water could move from the Creek through the Point into the lake. He felt that an engineering study would reveal the ground water regime in this area.

Mr. Bennett questioned whether the Okanagan Basin Study could assist in ground water investigations in the area.

Dr. O'Riordan stated that all available funds under the Okanagan Basin Study had already been allocated.

The Chairman asked that the Secretary-Manager investigate possibilities of obtaining further ground water information in the Trout Creek area from the Water Resources Service. Any information or assistance the Water Investigations Branch could give would be forwarded to the District of Summerland.

- V. Raudsepp  
Kalamalka -  
Woods Lake  
Water  
Quality:
2. V. Raudsepp, Deputy Minister of Water Resources - letter in reply to previous Water Board Correspondence regarding the Kalamalka - Woods Lake water quality problem. In view of the concern caused by the water quality conditions in Woods and Kalamalka Lakes the Water Resources Service reviewed available information on the problem including that information assembled by a special committee under the Federal-Provincial Okanagan Basin Study. The review indicated that a much more intensive study of the water
- v. Raudsepp  
Kalamalka -  
Woods Lake  
Water  
Quality:
2. V. Raudsepp, Deputy Minister of Water Resources - letter in reply to previous Water Board Correspondence regarding the Kalamalka - Woods Lake water quality problem. In view of the concern caused by the water quality conditions in Woods and Kalamalka Lakes the Water Resources Service reviewed available information on the problem including that information assembled by a special committee under the Federal-Provincial Okanagan Basin Study. The review indicated that a much more intensive study of the water quality and water quantity relationships would be required in the Woods Lake - Kalamalka Lake System. Accordingly an intensive study of this nature will be undertaken immediately by the Water Investigations Branch of the British Columbia Water Resources Service.



Mr. Bawtree asked whether the Regional District has zoned to restrict development in the Woods Lake area to alleviate pollution problems. The Chairman replied that the Regional District had no restrictions in that area.

Mr. Sworder mentioned that many septic tanks in the area could be a possible source of contamination.

Mr. Bawtree indicated that the extra water released by Hiram Walker through the system could possibly have a flushing effect on Woods Lake. The Secretary-Manager mentioned, although this flushing action could help Woods Lake the possible effects of nutrients washed into Kalamalka Lake were not certain.

Mayor Halina feared that by the time the Kalamalka - Woods Lake Study is completed a certain amount of damage would be done to Kalamalka Lake. He remarked that development on the narrow stretch of land extending between Kalamalka Lake and Woods Lake would certainly add to Lake contamination, since this development is surrounded by water. Mayor Halina felt there should be development restrictions in the area.

Mr. Marshall replied that if development does occur near the lakes a comprehensive sewage system should be installed.

The Chairman asked when the initial report on Kalamalka - Woods Lake would be available. Dr. O'Riordan replied that a preliminary report by Dr. Stockner and the Okanagan Basin Study Group would be available in November. The Chairman suggested that the Water Board wait for the complete facts before offering any further suggestions.

Mayor Halina was satisfied with what was being done concerning the Kalamalka - Woods Lake problem. He felt the problem had not been studied thoroughly in the first instance.

W.D.  
Seaton  
Kalamalka  
Lake:

3. W.D. Seaton - letter to the Regional District of North Okanagan expressing concern over the Kalamalka - Woods Lake water quality problem. The letter contained several suggestions for alleviating the Kalamalka - Woods Lake problem. It asked that the Regional Districts give leadership in helping to preserve Kalamalka and Woods Lakes.

The Chairman asked what the reaction of the Regional District of North Okanagan was to this letter.

Mr. Bawtree replied that the Regional District felt all the facts must be made available and then action would be taken through the Water Board.

Crown  
Zeller-  
bach Ltd.  
Report on  
Bark  
Debris.

The Chairman mentioned that the Regional District of Central Okanagan had held a meeting with Crown Zellerbach concerning woody debris accumulations on beaches in the vicinity of their booming areas. The Chairman reported that the company had done something about cleaning the beach. Barrels have been placed for the gathering of garbage. The company is dumping

Crown  
Zeller-  
bach Ltd.  
Report on  
Bark  
Debris,  
Okanagan  
Lake:

The Chairman mentioned that the Regional District of Central Okanagan had held a meeting with Crown Zellerbach concerning woody debris accumulations on beaches in the vicinity of their booming areas. The Chairman reported that the company had done something about cleaning the beach. Barrels have been placed for the gathering of garbage. The company is dumping logs on the ground before entry to water, thereby, dislodging loose material on land.

The Secretary-Manager mentioned that Crown Zellerbach had given the Water Board a report on a recent survey they had conducted



consisted only of 20% to 30% of the total debris. The remaining portion was estimated to come from other natural sources.

#### New Business

Water Licence Applications: The Secretary-Manager reviewed three applications for water licences which had recently been reviewed with the District Water Rights Engineer and the Chairman:

Westbank I.D. Application for Water Licence: 1. Westbank Irrigation District - application to store 1,500 acre feet in Bear Lake. The source of water would be Paddle Creek and the north fork of Towers Creek, both tributaries of Powers Creek.

Granting of this licence would bring the total water licences of the Irrigation District on Bear Lake to 3,305 acre feet. Existing dams will be raised three feet to accomodate the additional 1,500 acre feet of storage required. Twenty-eight acres of Crown Land would be flooded.

During the meeting between the Chairman, the Secretary-Manager, and the District Water Rights engineer, it was indicated that a spillway at both ends of Bear Lake should be recommended since water which naturally flowed from the Bear Creek watershed was now diverted down Powers Creek adding additional water to that system. In years of extremely high flow, flooding could result on Powers Creek. This could be avoided if provision is made for some of the original flow to pass down Bear Creek. The Chairman suggested that the Water Board recommend a second spillway be provided to relieve the possibility of flooding on Powers Creek.

Farmer - Marshall

THAT the Water Board request a second spillway to be constructed on Bear Lake.

CARRIED

Glenmore I.D. Application for Water Licence: 2. Water Application by Glenmore Irrigation District to store 560 acre feet on Upper Conroy Lake and Lower Conroy Lake. The source of the Water would be Conroy Creek, tributary to Mill Creek. Two earth fill dams would be constructed on the Lakes. A total of 40 acres of Crown Land will be flooded. The District Engineer has recommended that the resevoirs be cleared of timber prior to flooding.

Mr. Bawtree asked whether the Westbank Irrigation District's resevoir, on Bear Lake would be cleared as well. The Secretary-Manager said he felt it was a policy of the Water Rights Branch to have all of the resevoirs cleared; however, he would check on this point.

Bawtree - Marshall

Mr. Bawtree asked whether the Westbank Irrigation District's resevoir, on Bear Lake would be cleared as well. The Secretary-Manager said he felt it was a policy of the Water Rights Branch to have all of the resevoirs cleared; however, he would check on this point.

Bawtree - Marshall

THAT the Water Board recommend all storage resevoirs be cleared prior to flooding.

CARRIED

3. Water licence application by John S. Kennedy - for 1,120



will be serviced. Water will be taken from the Okanagan River near MacIntyre Dam. The District Water Rights Engineer has recommended that this application not be granted until the applicant abandons an existing water licence for 1,000 acre feet on Vaseux Creek.

Mr. Farmer felt that the South Okanagan Lands Project would object to this application. The applicant proposes to take water from behind the South Okanagan Lands Project diversion dam.

Marshall - Bawtree

THAT the above Water Licences be approved subject to the recommendations stated.

CARRIED

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Applications  
for Pollution

Control The Secretary-Manager reviewed several recent applications for  
Permits: pollution control permits:

H. 1. Application by Hugh Robert Lister to discharge effluent  
Lister from a coin laundramat at Okanagan Falls, into a ground  
Application drainage field.

for  
Pollut- The Secretary-Manager mentioned that an application for the  
ion same laundramat had been made some time ago by H.L. Nikkel.  
Control The laundramat ownership has now changed. Considerable  
Permit: difficulties have been incurred in processing this application.

Mr. Farmer informed that this application was now before the courts and therefore suggested that the Board table further discussion on this permit.

Farmer - Marshall

THAT the Water Board table further discussion of the H. Lister application.

CARRIED

Joy 2. Application by Joy Mining Company Ltd. to discharge effluent  
Mining from a copper leaching ore dressing plant near Princeton.  
Application Effluent would be discharged to a natural draw. Seepage  
for would then be collected in a polyethelyne lined collection  
Pollution basin and recycled into the process.

Control  
Permit: The Secretary-Manager mentioned that this application had been before the Board before, but had been re-submitted with minor changes.

The Secretary-Manager informed the Board that he had visited this mining site and had viewed the lined catchment basin from which water would be recycled into the mill. Although the basin would be lined with polyethylene there was provision for spillover from the pond. This would reach Allison Creek. Before the Board meeting, the mill had been re-submitted with minor changes.

The Secretary-Manager informed the Board that he had visited this mining site and had viewed the lined catchment basin from which water would be recycled into the mill. Although the basin would be lined with polyethylene there was provision for spillover from the pond. This would reach Allison Creek.

Mr. Farmer questioned whether run-off water would wash through the basin and spill over down the draw. The Secretary-Manager said that although the basin was dry, most years, the possibility of a high run off in some years should not be overlooked.



Farmer - Swarder

THAT a letter be sent to the Pollution Control Branch asking that run off in the Joy Mining catchment basin be controlled to avoid water contamination.

CARRIED

The Secretary-Manager informed that he had visited the mining site of Trent Resources in the Ollalla Creek drainage. He felt that certain aspects of this operation should be drawn to the attention of the Department of Lands, the Water Rights Branch and the Pollution Control Branch. The tailings dam showed signs of weakening. If this mine is to be re-opened, the tailings dam should be inspected to avoid breakage. The Ollalla community drinking water supply would be threatened if the dam broke.

The Board agreed that this operation should be drawn to the attention of the Departments concerned.

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Bill No. 79, Water Resources Act: The Secretary-Manager received a letter of July 20, 1971 from the Hon. R.J. Williston, Minister of Lands, Forests and Water Resources. The Minister had requested comments or suggestions regarding the contents of bill 79. He would like to receive these comments by October 1st.

The Secretary-Manager had called a meeting of the Technical Committee to discuss bill 79, and to summarize comments which could be reviewed by the Water Board. It was pointed out that bill 79 is primarily aimed at planning of water resources. The bill is intended to stand on its own. It will be administered by the Water Investigations Branch.

The Water Board reviewed the bill and comments of the Technical Committee.

Section 2.

Water Surveys: Section 2 of the Act, dealing with water surveys and research, required that permits be acquired before any water resource survey is carried out. This section also contained provision to exempt certain water resource surveys from the Act. The Technical Committee objected to the permit requirements of this section since it could be quite restrictive for individuals or organizations within the government requiring minor stream surveys.

Mr. Farmer said that he would support the recommendations of the Technical Committee on these remarks. The Chairman felt that the Technical Committee remarks regarding permits for water resource surveys should not be included since he thought these permits would serve to avoid duplication of water this section since it could be quite restrictive for individuals or organizations within the government requiring minor stream surveys.

Mr. Farmer said that he would support the recommendations of the Technical Committee on these remarks. The Chairman felt that the Technical Committee remarks regarding permits for water resource surveys should not be included since he thought these permits would serve to avoid duplication of water resource surveys.

Mr. Bawtree commented that the right to exempt certain water resource surveys from the Act improved the flexibility. Mr. Bawtree felt that only surveys of a certain size should



Mr. Thomas informed that the purpose of the water resource survey permits were to avoid duplicating studies. Results of surveys could be made available to all other interested organizations.

Mr. Jackson felt that water resource survey permits would serve to act as a central registry for all studies.

Bawtree - Marshall

THAT the Water Board support Section 2 of the Water Resources Act as written.

CARRIED

### Section 3

Water Resource Planning: This section has provisions for water resource planning. The Technical Committee recommended that the criteria of 10 cubic feet per second before requiring plan approval be re-examined for interior dry belt areas. The Technical Committee also recommended that minimal seasonal flow dates be established under this section.

Farmer - Bawtree

THAT the Water Board endorse the recommendations of the Technical Committee concerning Section 3 of the Water Resources Act.

CARRIED

### Section 4

Water Resources Development: This section contains provisions for water resources development.

The Technical Committee expressed concern over the broad authority that would be given to the Minister to construct, maintain and operate water works and sewerage works in new settlements. 'New Settlement' according to definition under the act, means an area of unorganized territory. Technically this could include all areas administered by the Regional Districts. Mr. Farmer felt that "unorganized territory" was ill defined under this act. The definition should be re-examined by the writer of the bill.

Mr. Bawtree questioned the reason for having a Municipal Financing Authority if the Minister would have authority to construct, maintain and operate water works and sewerage works in the same areas administered by the Regional Districts.

The Chairman agreed that there should be some clarification of this section. Mayor Halina remarked that this section could be a political football.

The Board agreed that a letter be forwarded to the Water Resources Service asking further clarification of definitions under this section.

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The Board agreed that a letter be forwarded to the Water Resources Service asking further clarification of definitions under this section.

### Section 5

Public Water Supply Extension: This section required that a permit be acquired before extending any public water supply system. The Technical Committee had pointed out that permits for extensions of public water supply systems were already required under the Health Act, the Water Act and the Public Utilities Act.



There could be duplication. The purpose of such a permit was not clear.

Mr. Thomas informed the Board that the Act was oriented to planning. When it is read, it should be interpreted with this in mind. Permit requirements would aid in the planning process.

Sworder - Farmer

THAT the Water Board support the recommendation of the Technical Committee concerning Section 5 of the Water Resources Act.

CARRIED

Right of Entry and Right to lay pipe lines: Sections 6 and 7

These sections refer to right of entry and the right to lay pipe lines etc. without consent and without compensation. The Chairman felt these sections were standard procedure. He thought that even municipal roads belonged to the Crown, therefore, the Crown reserved the right of entry without consent. Mr. Stevens felt that clarification of the term compensation should be further defined.

The Board agreed that some clarification should be made as to what compensation would be received by cities and municipalities for damage to roads, etc.

Section 8

Well Drilling: Permits for water well drilling are required under this section. The Technical Committee questioned whether the prime purpose of acquiring a water well drilling permit was to keep track of logs in respect of wells drilled. The Committee also questioned whether this might be an approach to licencing ground water.

Mr. Bawtree felt the size of well should be defined before a permit is required. Small farms are not likely to seek permits when drilling smaller wells on their own properties.

Mr. Hamilton felt the purpose of this section was merely to acquire logs kept in respect of wells.

Mr. Farmer felt that it was a good idea to build up logs of wells in the area, and therefore felt the Water Board should endorse Section 8 as written in the Act.

Section 9

Inquiries: Under this section it was suggested that an "authorized representative" of the Minister be more clearly defined.

Section 11

Water Resources Inquiries: This section made provision for a water resources advisory committee. The Technical Committee felt the composition of the Water Resources Advisory Committee should be more clearly defined. Under this section it was suggested that an "authorized representative" of the Minister be more clearly defined.

Section 11

Water Resources Advisory Committee: This section made provision for a water resources advisory committee. The Technical Committee felt the composition of the Water Resources Advisory Committee should be more clearly defined. The Committee also suggested that the advisory committee should seek local representation through sub-committees when dealing with local basin plans.

Sworder - Bawtree

THAT the Water Board support the comments of the Technical



Section 11, Subsection (5)

**Public Hearings** This subsection made provision made provision for public hearings to obtain the views of organizations and residents in an area to be affected by matter under consideration by the Advisory Committee.

The Technical Committee felt it should be mandatory for the Water Resources Advisory Committee to hold public hearings on all water resource plans.

Marshall - Swarder

THAT the Water Board support recommendations of the Technical Committee concerning subsection (5) of Section 11.

CARRIED

Section 12

**Offences and Penalties** This section provided for penalties under the Act. A maximum fine not exceeding \$1,000 was provided for any offence against this act.

The Technical Committee suggested that a minimum fine also be set under this section to cover high court costs. The Chairman felt that the fine should be left to the discretion of the Courts. The Board agreed that this section should be left as written.

Section 13

**Exemptions** Under Section 13 (c) provision is made for the exemption of certain designated persons or areas from any provision of the Act. The Technical Committee Felt this exemption provision was a weakness that could lead to favoritism.

The Board felt that this was a right the government wished to maintain to have some flexibility in the Act. The Board supported this section as written under the Act.

Section 14

**Limitation of Action** This section provided for limitation of action against persons involved in the performance of this Act.

The Board agreed that clarification of the clause "any other person" should be made under this section.

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**Progress Report Okanagan Basin Study** Dr. O'Riordan mentioned four field studies that have been undertaken this past summer; these included:

1. Recreation studies
2. Sports fisheries survey
3. Shoreline survey

**Progress Report Okanagan Basin Study** Dr. O'Riordan mentioned four field studies that have been undertaken this past summer; these included:

1. Recreation studies
2. Sports fisheries survey
3. Shoreline survey
4. Economic growth study

Recreation surveys are being conducted to determine the importance of the water resource for recreation use. Non-



Recreation residents or tourists were surveyed first. Residents will be  
Surveys: surveyed in the fall. It has been recognized that

recreation is a high priority industry in the Okanagan. The people of the valley gain aesthetic values from the water resource as well.

Dr. O'Riordan mentioned that the Kalamalka - Wood Lake water quality problem this summer also received special attention under the recreation study. Tourists and resort owners were surveyed.

Sport  
Fishery  
Survey:

Sport fishing surveys are done to determine the present value of the sports fishery in the Okanagan and the likely future demand for sports fish. The Okanagan Basin Study has worked very closely with the Fish and Wildlife Branch in these aspects of the study. Aerial flights over the lakes have been taken to count boats and fishermen, this gives an estimate of the total fishing population. The fishing population is quite high in the valley. Valley residents will also be questioned as to how often they fish, types of fish sought and streams or lakes being fished most. An attempt will be made to try and place a dollar value on the Okanagan sports fishery.

Shore-  
line  
Survey:

A shoreline survey is being carried out to determine and evaluate the impact of flood levels on shoreline facilities. This information will also give an indication of the best management for the Okanagan River System. Models will be designed for the operation of the lakes under various alternatives.

Further economic growth studies will be carried out to analyse growth patterns. Mr. Bjorbeck would outline his work under this portion of the study later in the meeting.

Mr. Bawtree mentioned that as well as the positive aspects of tourism there were tangible negative aspects also. For example, industrial transportation in the valley is often delayed.

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Economic Growth Studies: Mr. Bjorbeck outlined the economic growth studies he was currently initiating in the valley. The purpose of the growth studies is to project water demands and waste loadings to the year 2020. A specially designed questionnaire will be circulated among agricultural and business establishments to determine future expansion effects. Approximately 200 businesses will be sampled. It is important to know the basic sectors of the region's economy to make accurate projections into the future.

Mr. Bjorbeck sought to have some cooperation from the Regional Districts in his initial contact with industries. He stressed that it was best to employ local people in making the initial contact with industry. Mr. Bjorbeck pointed out that there were mutual advantages to be gained by the Regional Districts

Mr. Bjorbeck sought to have some cooperation from the Regional Districts in his initial contact with industries. He stressed that it was best to employ local people in making the initial contact with industry. Mr. Bjorbeck pointed out that there were mutual advantages to be gained by the Regional Districts and the Okanagan Basin Study. Initial contact of the firms by the Regional Districts would help in gaining the acceptance of the project by industries. Following initial contact the bulk of work will be done by Mr. Bjorbeck's staff. Regional District staff would only be required in distribution of the questionnaire. Mr. Bjorbeck estimated about one week would be required for one man from each Regional District.



The Chairman asked Mr. Bjorbeck if he would be willing to come to the Regional Districts to explain his project and to ask for their assistance. Mr. Bjorbeck agreed that he could do this.

The Secretary-Manager mentioned to the Board that he felt Mr. Bjorbeck would like some indication whether or not the Water Board would support this project and recommend it to the Regional Districts.

Farmer - Sworder

THAT the Okanagan Basin Water Board ask the Regional Districts to cooperate in the economic growth study.

CARRIED

W. Mr. Thomas introduced Bill Horswell who had recently been  
Horswell hired by the Okanagan Basin Study Committee to act as Public  
Public Participation Coordinator under the Okanagan Basin Study.

Participation  
Co- Mr. Horswell outlined his work to the Board. He would work  
ordinator closely with the news media and organized and unorganized  
sectors of the public. He would explain the study to the  
public and attempt to get some feedback. He will also be  
working closely with the Okanagan Basin Water Board.

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Princeton The Chairman informed the Board that arrangements had been made  
Public for a public meeting to be held in the Canadian Legion Hall  
Meeting in Princeton on Wednesday September 29, 1971 at 8:00 p.m.  
The purpose of the meeting would be to receive public views  
concerning water resources, management in the Okanagan -  
Similkameen area.

#### Other Business

Enderby Upon conferring with Mr. Bawtree the Chairman suggested that  
Public a public meeting be arranged for the Enderby area as well.  
Meeting

Bawtree - Marshall

THAT a public meeting be arranged for Enderby this fall.

CARRIED

---

The next meeting of the Water Board would be held in Lumby  
on October 7th.

The meeting adjourned at 5:00 p.m.

The next meeting of the Water Board would be held in Lumby  
on October 7th.

The meeting adjourned at 5:00 p.m.

OKANAGAN BASIN WATER BOARD

AGENDA

October 7, 1971, 2:00 p.m.

1. Minutes from meeting of September 2, 1971.
2. Accounts.
3. Financial Statements.
4. Correspondence.
  - (a) City of Kelowna - Alderman W.J.C. Kane appointed alternate observer on the Water Board.
  - (b) E.E. Marr - Water storage Lanbly Lake.
  - (c) R. Williston - Comments regarding Bill No. 79 Water Resources Act.
  - (d) Regional District of North Okanagan - Okanagan Lake Weeds.  
*- Haney: 5 - no report - OFFICE - REPORT WEL, 25th*  
*REPORTS - OK - 20th* \* *PROPOSAL - SALLY, 15th*  
*- 20th - 20th* *- 20th - 20th*
5. New Business.
  - (a) Lumby Chamber of Commerce and Agriculture presentation.
  - (b) Pollution Control Permits.  
*- 20th - 20th*
  - (c) Public Meeting Kelowna, and Osoyoos.
6. Other Business.

September 15, 1971

Mr. Basil Edwards  
Lumby Chamber of Commerce  
& Agriculture  
Box 194]  
Lumby, B.C.

Dear Mr. Edwards:

Further to our telephone conversation of September 13, this letter will confirm that the next meeting of the Okanagan Basin Water Board will be held in Lumby on Thursday October 7, 1971 at 2:00 p.m.

Thank you for your offer to make arrangements for a meeting place.

Please inform me if presentations etc, will be made by local residents.

Yours truly,

W. Parchomchuk  
Secretary-Manager

WP/pp

# **LUMBY CHAMBER OF COMMERCE AND AGRICULTURE**

LUMBY, B.C.

Brief to the Okanagan Basin Water Board,  
Thursday, October 7, 1971

Gentlemen:

Over the past few years the citizens of Lumby and district have submitted several briefs both to your board and the Provincial Government concerning a water diversion from the Shuswap river system to the Okanagan.

I am sure you well remember most of our arguments opposing such a diversion through the Enderby-Armstrong areas.

With the Okanagan Basin Study nearing the half way point we feel it is still timely to mention that should a diversion become necessary from the Shuswap system that the Study Group be urged to take a very close look at Sugar Lake as a natural storage area with very few drawbacks involved, other than distance from the Okanagan Valley. We also feel very strongly that any such waters can and should be utilized ~~without~~ <sup>BEFORE</sup> entering Okanagan or Kalamalka Lake.

If the fantastic rate of growth is to continue, and we sincerely hope it does not, then water distribution from an unpolluted source should become a minor problem both financially and physically.

We had hoped to arrange a tour as far as the proposed Mabel Lake park site in order to impress upon you, and through you the Study Group, the extremely beautiful and valuable farm lands that would be rendered useless if Mabel Lake was used as a reservoir. Unfortunately this could not be done. However perhaps when the study has progressed to a point where they do start looking at new sources of water, then a complete tour of the entire Shuswap watershed can be arranged. I would be only too happy to act as a coordinator for same.

Also when the study has progressed into it's third year we would be very much interested in holding a public hearing here with the senior members of the study group.

Thank you gentlemen on behalf of the Lumby Chamber of Commerce and Agriculture.

Basil Edwards,  
President.



*Regional District  
of North Okanagan*

XXXXXXX  
545-5368

24th September 1971

Mr. V. W. Hall  
Executive Member S.P.E.C.  
R. R. #4, Vernon, B. C.

Dear Sir:

Re: Okanagan Lake Weeds

Thank you for your letter of September 21st, 1971 with reference to the above.

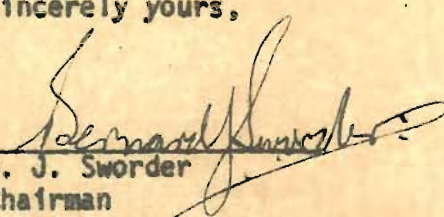
The Regional District of North Okanagan does not have jurisdiction on the waters of the Region, but has two representatives and an alternate on the Okanagan Basin Water Board, who attend all meetings of the Board.

The condition of the weeds were brought to the attention of the Water Board by myself, through the Regional District earlier this summer and has been discussed by the Board at two meetings. The Okanagan Basin Water Study is also fully aware of this condition and is conducting continuous monitoring and research.

I am sure that the eventual removal of effluent run off into the lake will greatly improve the condition, but at the present time the Regional District has no legal or financial means to clear the present weeds. Should the cause and cure of this weed growth be ascertained, it may be that, through the granting of letters patent to the Region, we may be able to tax for the cost of removal of weeds and the maintenance of weed control equipment at a later date.

The Okanagan Basin Water Board Meetings are always open to the public, so it will be in order for any or all members of S.P.E.C. to attend the Lumby meeting.

Sincerely yours,

  
B. J. Sworder  
Chairman

BJS/ph

G. HUA WILLISTON

G. HUA WILLISTON

Minutes for October 7, 1971  
meeting, in original file

OKANAGAN BASIN WATER BOARD

AGENDA

November 5, 1971, 2:00 p.m.

1. Minutes from meeting of October 7, 1971. *See 1st Letter*
2. Accounts.
3. Correspondence:
  - (a) B.E. Marr - Trout Creek Groundwater review.
  - (b) Princeton & District Chamber of Commerce - Similkameen Valley Water Resources.
  - (c) K.I.G. Benson, Health Branch - anticipated fecal coliform standards.
  - (d) W.N. Venables - Re: invitation to meet with Water Board.
  - (e) H.D. Debeck - Water applications; K-Bar Ranches Ltd.,
4. New Business.
  - (a) Pollution Control Permits. *Letter to B.E. Marr*
  - (b) Public meeting Enderby. *See 1st Letter to B.E. Marr*
5. Other Business. *See 1st Letter to B.E. Marr*

*- F.H. Marr*

*- Similkameen Enderby Report*



MINUTES OF THE MEETING OF THE OKANAGAN BASIN WATER BOARD,  
NOVEMBER 5, 1971, 2:00 p.m. OFFICES OF THE REGIONAL DISTRICT  
OF CENTRAL OKANAGAN, KELOWNA, B.C.

Present: W.C. Bennett(Chairman) R.D.C.O.  
M. Marshall R.D.C.O.  
J. Patterson R.D.N.O.  
L. Bawtree R.D.N.O.  
P.A. Farmer R.D.O.S.  
F.D. Stuart R.D.O.S.

Also in Attendance:

Mayor Roth City of Kelowna  
H. Stoll Alderman, Corp. of Summerland  
J. Hamilton Engineer, City of Penticton  
D. MacKay Engineer, City of Vernon  
B. Harvey Manager, Vernon Irrigation  
District  
D. Oliver Okanagan Basin Study  
G. Staple Okanagan Basin Study

Press and Radio:

Vernon News, Kelowna Courier, Penticton Herald, CKOV Radio

Minutes: By letter of November 2, 1971, Mr. Thomson requested  
that the first sentence of the October 7th minutes be changed  
as follows:

"Mr. Thomson replied that they did not contribute to  
the problems experienced in the summer of 1971, but there  
was some question as to the effect of such additional  
flows on the water quality of the Wood-Kalamalka Lake  
system over a record period of time."

Marshall - Bawtree:

That the minutes of the meeting of October 7, 1971, be  
corrected, as suggested, by Mr. Thomson.

CARRIED

Bawtree - Marshall:

That the minutes of the meeting of October 7th, 1971 be  
adopted as corrected.

CARRIED

Accounts: Accounts outstanding to November 5, 1971 totaling \$626.48  
were presented for payment.

Patterson - Marshall:

That the accounts totaling \$626.48 be paid.

CARRIED

Correspondence:

The following letters were read:

Trout Cr. 1. B.E. Marr, Chief Engineer, Water Investigations Branch -  
Groundwater: letter in reply to a September 10th letter from the Okanagan

Basin Water Board and the Corporation of the District of Summerland concerning a groundwater problem in the Trout Creek area. The Water Investigations Branch, Groundwater Division, will undertake a review of all available groundwater data to make a preliminary assessment of the problem. A brief field inspection will be made as part of this study.

Princeton  
Chamber of  
Commerce:

2. Princeton and District Chamber of Commerce - letter of appreciation to the Water Board for holding a public hearing in Princeton on September 29, in connection with water resource management in the Similkameen area. The letter also contained a short brief pertaining to flooding and storage in the Similkameen area.

Bawtree - Patterson:

That the Princeton and District Chamber of Commerce brief be added to the briefs which were submitted to the Princeton public meeting.

CARRIED

Fecal  
Coliform  
Standards:

3. K.I.G. Benson, Assistant Provincial Health Officer, letter informing that the Health Branch is presently developing a new standard in which fecal coliform will be used as the indicator organism for evaluating the micro-biological quality of recreational waters. The new standard could be stated as follows: The fecal coliform content of primary contact, recreation waters shall not exceed a log mean of 200 per 100 ml. nor shall more than 10% of total samples during any 30 day period exceed 400 per 100 ml.

This is a suggested change to the recommended water quality standards and until it is adopted and written into the standards it cannot be interpreted as the official position of the Department of Health Services and Hospital Insurance.

Mayor Stuart informed that the City of Penticton coliform tests have been running only about 10% fecal coliform. This indicates that the Okanagan tests are extremely favourable in view of the new proposed standard. Total coliform tests can be very misleading, the new standard identifies more closely with the actual condition of the water.

Mr. Bawtree remarked that the new fecal coliform standard was intended for Provincial use. He questioned whether it was suitable for the Okanagan.

Mayor Stuart replied that the Okanagan coliform tests would show much lower levels than what is allowed in the standard.

Mr. Bawtree was concerned there may be a tendency to relax controls, when more lenient standards are adopted. If our public beaches have a higher standard than required, we should continue to maintain them at the higher standard.

The Chairman remarked that it would be an advantage to have coliform readings which are better than the standard requirement.

Pollution  
Control  
Requirements:

4. W.N. Venables - letter in reply to an invitation by the Water Board for Mr. Venables to meet with the Board on November 4th to answer questions concerning information in applications for Pollution Control Permits, and to clarify procedures in processing Pollution Control applications.

Mr. Venables pointed out that under the Pollution Control Act, there are no requirements for the Regional Districts to assess applications. The Department of Municipal Affairs would have to be contacted to expand the function of the Regional Districts to fulfill this requirement.

The letter also contained recently issued minimum requirements for municipal effluents and municipal and industrial solid wastes. Pollution control requirements now state that discharges to fresh water streams will not generally be permitted unless it can be reasonably established that at times when discharges take place, the receiving waters will afford a dilution of at least 20: 1 based on the lowest stream flow in an average year.

Mayor Stuart mentioned there were indications, that additional removal will be required for discharges into the Okanagan system.

The Secretary-Manager mentioned that copies of the minimum requirements for disposal of municipal and domestic waste water to surface water could be made available to the municipalities if they desired the same.

K-Bar  
Water  
Applications:

5. H.D. Debeck - letter concerning water applications by K-Bar Ranches Ltd., on Mission Creek, on Mission Lake, and three un-named lakes, now named Murray Stevenson and Sanders.

The K-Bar water applications have been investigated by the Comptroller of Water Rights who is now prepared to issue 7 licences authorizing the diversion and storage of 2,938 acre feet in the Mission Creek watershed.

The above mentioned licences had been discussed thoroughly with the Okanagan Basin Water Board previously.

The Chairman recalled, the Water Board had tried to get Black Mountain Irrigation District and K-Bar Ranches to work together on a common water supply system whereby the licences could be granted to the Black Mountain Irrigation District. The Irrigation District would then supply water to K-Bar Ranches. Water would remain under public control.

Two thousand, nine hundred and thirty-eight acre feet of the 7,500 acre feet, at first applied for by K-Bar Ranches, will be granted to the ranch. Water storage within the system will help to balance stream flow.

Mayor Stuart indicated that the entire City of Penticton only uses approximately 10,000 acre feet of water annually. Granting of a water licence for 2,938 acre feet to a private organization was a comparatively large amount. It would be desirable to keep control of the water under a public agency. Mayor Stuart suggested that Black Mountain Irrigation District and K-Bar Ranches be urged to reconsider joint works.

Stuart - Farmer:

That the Black Mountain Irrigation District be informed

of the Comptrollers decision to grant water licences to K-Bar Ranches and that an attempt be made to have the two agencies negotiate a mutual water supply system.

CARRIED

Mr. Harvey said that the association of B.C. Irrigation Districts would help, if they could be of any assistance.

The Board accepted this invitation for assistance.

Role of  
Okanagan  
Basin Water  
Board and  
Okanagan  
Basin Study:

6. Dr. J. O'Riordan and T.A.J. Leach, co-chairmen of the Okanagan Study Committee - letter concerning the relationship between the Federal-Provincial study and the Okanagan Basin Water Board. The Study Committee was concerned that the similarity in the names of the Okanagan Basin Study and the Okanagan Basin Water Board has created some confusion in the public mind as to the role of these two organizations, in the Federal-Provincial Okanagan Study. The similarity between the Federal-Provincial Study and the Okanagan Basin Water Board has created some confusion as to the roles of Mr. Parchomchuk and Mr. Horswell in obtaining public feedback. The Study Committee felt that public feedback concerning the Okanagan Basin Study, should be channelled through the office of the Okanagan Basin Study in Penticton.

The Chairman remarked that the Okanagan Basin Study had originally asked the Okanagan Basin Water Board to hold public meetings on behalf of the study.

Mayor Stuart commented that the Okanagan Basin Water Board had been conducting public meetings in the interim period until the public coordination programme of the Okanagan Basin Study is fully organized. Now that Mr. Horswell of the Okanagan Basin Study has arrived, it may be necessary for them to take over the public participation programme.

The Chairman observed that at the public meetings, residents referred to the Okanagan Basin Water Board and the Okanagan Basin Study as one entity.

The Secretary-Manager informed the Board that at the onset of the public participation programme he had discussed the role of the Water Board and the Okanagan Basin Study thoroughly with members of the Study and it was agreed that they would cooperate in receiving public feedback to avoid duplication of effort. The public feedback received from the series of meetings would be channelled into the Okanagan Basin Study. It was mutually agreed that both agencies would share in the programme.

Mayor Stuart suggested that the Okanagan Basin Study Committee be advised that the public meetings were set up to assist the Okanagan Basin Study at their request. These meetings will soon be finished and the public participation programme can then be coordinated entirely by the Okanagan Basin Study Committee.

The Chairman agreed that a meeting with several members of the Committee would clarify any problems which may have arisen in regards to the Okanagan Basin Study, and public participation.

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New Business:

Pollution  
Control  
Permits:

An application for a Permit under the Pollution Control Act, by American Can Co. of Canada was presented to the Board. The Company wished to discharge 4,350 gallons daily of cooling water into Brandt's Creek. The water would be cooled to a temperature range between 60 to 78°F. No additives would be placed in the water.

Farmer - Bawtree:

That the Board accept the terms of the application for a permit under the Pollution Control Act by American Can Co. of Canada Ltd.,

CARRIED

Public  
Meeting  
Enderby:

The Secretary-Manager informed the Board that another in a series of public meetings had been arranged for Enderby on Tuesday November 23 at 7:30 p.m. in the Royal Canadian Legion Hall. The Chairman mentioned that the Big-R Radio Station of Salmon Arm wished to broadcast the Enderby meeting. He asked the Board whether this would be acceptable. The Board agreed to allow the broadcast.

Next  
Meeting:

The Chairman informed the next regular meeting of the Board would be on December 2nd. He asked whether this meeting should be held in Kelowna or Keremeos as previously discussed.

Mr. Farmer agreed that the next meeting of the Okanagan Basin Water Board should be held in Keremeos. The Victory Hall, in Keremeos, would provide a likely meeting place.

Farmer - Stuart:

That the next regular meeting of the Okanagan Basin Water Board be held in Keremeos.

CARRIED

Other Business:

Joy Mining  
Ltd.:

Mr. Farmer presented a letter which had been written by Joy Mining Ltd., to the Pollution Control Branch concerning the Joy Mining Ltd., application for a Pollution Control permit, dated August 18.

The letter stated that an objection to the application by Joy Mining was made by Mr. Kelly a resident downstream from the point of discharge. The mine informed that Mr. Kelly had been taken on a tour of the mine and now has a more thorough understanding of the operation. He does not fear that pollution will occur as a result of this operation.

Representation  
on Water  
Board:

Mayor Roth indicated he wished to make a short presentation.

Mayor Roth said that during a recent public meeting of the Okanagan Basin Water Board the City of Kelowna recommended that the Board be used as a planning vehicle for the entire Valley, as it is the only authority present that is Valley wide.

It was also pointed out during the public meeting that a glaring inconsistency is present on the Board representation. The urban areas are not directly represented on the Water Board and it was suspected that the City of Kelowna is not even indirectly represented.

Mayor Roth submitted that the City of Kelowna does not have fair representation on the Regional Board and cannot, therefore, be represented on the Okanagan Basin Water Board. The Mayor felt this was a very serious matter and merits immediate consideration of the Water Board. Mayor Roth strongly suggested that the three major urban areas, Penticton, Kelowna, and Vernon be granted full voting membership on the Water Board, or the City of Kelowna would be forced to withdraw support.

The Chairman remarked that when the Okanagan Basin Water Board was initiated, representation on the Board was thoroughly discussed. The Regional Districts would have complete authority to appoint their own representatives to the Water Board. The Water Board itself does not appoint representations from the Regional Districts.

Mayor Roth said that agricultural people living in rural areas do not represent urban people.

Mayor Stuart felt that special circumstances existed between the City of Kelowna and the Regional District of Central Okanagan. He was in sympathy with Kelowna over their representation; but felt it was up to the Regional Board to appoint their own representation on the Water Board.

In early discussions of the Water Board Mayor Stuart thought that one of the representatives on the Board from each Regional District would be an urban representative appointed by the Regional District. If one Regional District feels it needs more presentatives on the Water Board, an application should be made by the Regional District to the Provincial Government for an additional representative on the Water Board. There are monitory considerations as well. The cities should have a right to be represented.

Mayor Roth informed that on an assessment basis the City of Kelowna pays 1/3 the cost of the Regional District operations, and therefore felt the City should have more adequate representation.

Mr. Bawtree mentioned that in the Regional District of North Okanagan the Mayor of the major centre is often at Water Board meetings, and his views are accepted as though he were a direct member of the Board. He is welcome to do this. There are also technical representatives from the cities at Water Board and technical meetings. Mr. Bawtree suggested the problem raised by Mayor Roth was a problem peculiar only to the Regional District of Central Okanagan and the City of Kelowna.

Mayor Stuart agreed that representatives from the Cities have full opportunity to attend and give their views and be

listened to; therefore, the Board should not deprive these representative of the right to vote.

Mr. Bawtree asked which cities should be on the Board. The Board could not discriminate against certain cities. In the Regional District of North Okanagan, there are three cities that could possibly require a voting right.

Mayor Stuart said that representatives on the Water Board should represent their whole Regional District. The Board could be enlarged to include a member from one of each of the three urban centres in the Okanagan.

The Chairman said the City should request that the Letters Patent of the Regional District be amended to allow three Board members to be represented on the Water Board.

Mr. Farmer added that many urban centres of the Regional District of Okanagan-Similkameen would want representation on the Board. This could be very awkward. Mr. Farmer felt the present deliberations were of a domestic nature and should be settled by the Regional District and the City of Kelowna.

Mayor Stuart said that if it was difficult for the regional districts to get fair representation on the Water Board by having only two representatives, then the number of representatives should be expanded.

Mr. Marshall felt the problem should be discussed with the Regional Districts first.

The Chairman felt the City of Kelowna should ask the Regional District to amend their Letters Patent to increase representation. Mayor Roth said that he was asking the Board to do this now.

Mayor Roth retired from the meeting.

Mr. Farmer suggested that the Water Board adjourn to Committee.

Mayor Stuart disagreed and said that since the issue was raised in public, the meeting should continue in public. Mayor Stuart gave the Board credit for what they have so far accomplished.

Mayor Stuart felt that the problem of representation could be easily overcome, he felt the Board should think seriously of extending the size of the Board to provide for city representation without definitely saying so in the Letters Patent. It would generally be agreed that the cities would have representation on the Board. The size of the Water Board could be expanded to give the Regional Districts the opportunity to appoint urban representatives.

Mr. Bawtree recalled that during financing arrangements for the Water Board, the idea of a direct city representative was turned down. If representation was allowed from the cities there would no longer be the concept of Regional Districts. If there is direct representation from one city in a Regional District it would have to be given to all cities.

Mayor Stuart questioned whether all of the cities would want representation. The Chairman remarked that the City of



Kelowna has never approached the Regional District of Central Okanagan requesting a city representative on the Okanagan Basin Water Board.

Mayor Stuart felt that at least one urban centre of each Regional District should be represented on the Water Board to represent urban problems.

Mr. Farmer suggested that a member be chosen from a larger municipality in each regional district to represent municipal problems. The Regional District should be responsible for this appointment.

Mayor Stuart pointed out that the more prominent water pollution problems are in the municipal areas and decisions of the Water Board will directly affect them.

Mr. Marshall remarked that when the City of Kelowna was represented on the Water Board there was much criticism of the Rutland area. Mayor Stuart felt that representatives on the Water Board should have the right to criticize other municipalities within the Okanagan, that did not meet standards. More people should be involved on the Board to represent urban centres. The Regional District Chairmen should select representatives.

Mr. Farmer suggested that membership on the Okanagan Basin Water Board be increased to three members from each Regional District, and appointment of representatives from each Regional District should be left to the discretion to the Regional District concerned. Representatives from rural areas should alternate annually to broaden their experience with the Board.

Mayor Stuart recalled that the establishment of the Okanagan Basin Water Board was generated by the three major urban centres in the Valley. The Regional District was the political vehicle by which the Board could be established. At the time the Board was created there was representation from the three cities of the Valley.

The Chairman suggested that the Water Board approach the three Regional Districts to seek their opinion concerning an increase of representation on the Water Board.

Farmer - Stuart:

That the Okanagan Basin Water Board apply to the three Regional Districts to change their Letters Patent so that each member Regional District could appoint three members each for a one year term on the Okanagan Basin Water Board. This is essentially a change in item 7 under division VIII of the Letters Patent.

CARRIED

Similkameen  
Inclusion in  
Water Board  
Title:

Mr. Farmer requested the Water Board to consider inclusion of the Similkameen River in the title of the Okanagan Basin Water Board. He realized that this would create a relatively long name for the Board, but felt that since the Similkameen was included in the Water Board it should be reflected in the name of the Board itself.

Mr. Bawtree remarked that if the name of the Similkameen drainage is to be included in the title of the Water Board the Shuswap drainage should also be included.

Mayor Stuart realized that the Similkameen area is sensitive to the fact that the name of the drainage is not included in the Okanagan Basin Water Board title, however he would hesitate to accommodate the names of every tributary of the Okanagan to the title as this would be awkward. The Chairman was sympathetic with the issue raised by Mr. Farmer, but felt the name would be too long.

Farmer - Marshall:

That the Okanagan Basin Water Board apply for a change in Letters Patent so that it could be called the Okanagan-Similkameen Basin Water Board.

DEFEATED

Mr. Farmer requested a Committee meeting of the Water Board.

The meeting adjourned at 4:00 p.m.



## OKANAGAN BASIN WATER BOARD

OFFICE OF  
THE SECRETARY-MANAGER  
540 GROVES AVENUE  
KELOWNA, BRITISH COLUMBIA  
TELEPHONE (604) 763-4918

### OKANAGAN BASIN WATER BOARD

#### NOTICE

A regular meeting of the Okanagan Basin Water Board will be held on Friday November 5th, at 2:00 p.m. in the Offices of the Regional District of Central Okanagan, 540 Groves Avenue, Kelowna.

W. Parchomchuk  
Secretary-Manager

WP/pp





## OKANAGAN BASIN WATER BOARD

OFFICE OF  
THE SECRETARY-MANAGER  
540 GROVES AVENUE  
KELOWNA, BRITISH COLUMBIA  
TELEPHONE (604) 763-4918

November 10, 1971

Dr. J. O'Riordan,  
Mr. T.A.J. Leach,  
Co-Chairmen,  
Okanagan Study Committee,  
Box #458,  
Penticton, B. C.

Dear Dr. O'Riordan and Mr. Leach:

Thank you for your letter of October 26 concerning coordination between the Federal-Provincial Study and the Okanagan Basin Water Board.

We are aware that the general public on many occasions has failed to discern the difference between the Okanagan Basin Water Board and the Federal-Provincial Study. However, since both organizations are interested in receiving views from the public for the social betterment of the Okanagan, we did not feel the importance of labouring upon the distinction between the two organizations.

Upon your request, at future public meetings we will mention the distinction between the Water Board and the Federal-Provincial Study. As your public education program advances, residents should become more aware of the distinction.

In the meantime, we wish to maintain the present favourable level of cooperation between the Water Board and the Okanagan Basin Study.

Further observations you have made concerning the role of the Water Board and the Study Committee, we feel, can easily be clarified by discussion with you.

We would be most pleased to meet with you at your convenience.

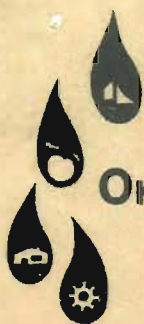
Yours truly,

W.C. Bennett,  
Chairman.

/vr

/vr





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THE SECRETARY-MANAGER  
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Yours truly,

W.C. Bennett,  
Chairman.

/vr

/vr



OKANAGAN BASIN WATER BOARD

AGENDA

December 2, 1971

1. Minutes from meeting of November 5, 1971.

2. Accounts.

3. Correspondence:

(a) R.H. Ahrens, Dept. of Recreation and Conservation -  
Provision of Waste Disposal facilities for boats and  
trailers.

(b) Hon. R. Williston - Weed growth foreshore of Okanagan Lake. *1/2 acre*

4. New Business:

(a) Pollution Control Permits:

- Joy Mining
- Village of Princeton
- Village of Osoyoos
- Brenda Mines

5. Other Business.

- Enderby Meeting, 75 attendees, 10 days (Total 10 days)

- Approval of 80 acres of land

- Meeting to review budget

- Meeting to review 1972 budget

MINUTES OF THE MEETING OF THE OKANAGAN BASIN WATER BOARD, DECEMBER 2, 1971, 2:00 p.m. VICTORY HALL, KEREMEOS, B.C.

Present: W.C. Bennett (Chairman) R.D.C.O.  
M. Marshall R.D.C.O.  
P.A. Farmer R.D.O.S.  
G.V. Lawrence R.D.O.S.  
L. Bawtree R.D.N.O.

Also in Attendance:

Mrs. Frances Peck Alderman, Village of Keremeos  
Jim Clarke Association of B.C. Irrigation  
Districts

Press and Radio:

Penticton Herald, CKOV Radio, CKIQ Radio

Minutes: Several typographical errors were noted in the minutes of the meeting of November 5, 1971.

Marshall - Bawtree:

That the minutes of the meeting of November 5, 1971 be adopted as corrected.

CARRIED

Accounts: Accounts outstanding to December 2, 1971 totaling \$670.63 were presented for payment.

Farmer - Lawrence:

That accounts totaling \$670.63 be paid.

CARRIED

Correspondence:

The following letters were read:

Sanitary 1. R.H. Aherns, Director, Parks Branch - letter in reply to a  
Facilities for Water Board letter requesting that sanitary facilities be installed  
Boats & in the Okanagan for the discharge of sewage wastes from boats and  
Trailers: trailers. In his letter, Mr. Aherns stated that although the Parks  
Branch has put into operation a number of sani-stations, the  
Provincial Parks system should not necessarily be the only place for  
this type of installation. Operators of the various businesses  
which sell and make a profit from refuse producing products, should  
be encouraged to help provide the refuse disposal units required  
by these products. Refuse disposal is a problem which requires combined  
efforts of all levels of government; municipal, provincial and  
federal. The Federal government would be involved especially  
where the Navigable Waters Act applies as with respect to Okanagan  
Lake. The private sector and the general public should also be  
involved.

A list provided with the letter showed the location of various  
installations within the Okanagan-Similkameen where discharges  
from trailers could be made. In the Okanagan-Similkameen area  
there is one provincial sani-station. This is located at Okanagan  
Lake Park near Peachland. Thirty-one other installations are

located throughout the Okanagan-Similkameen at various private camps and service stations.

The Secretary-Manager explained that presently there are no facilities on the lakes for discharge of wastes from boats. At recent public meetings some boaters had expressed concern in this regard.

Mr. Farmer suggested that a letter be sent to the cities and municipalities asking them to install sanitary stations at marinas in their respective areas.

Mr. Bawtree felt that it was really a responsibility of boaters and the people in the boating business to provide required sewage facilities.

The Chairman mentioned that if facilities were provided, boaters would use these. Yacht clubs should be partially responsible for installation of waste receiving facilities.

Mr. Marshall suggested that a coin operated pumping station could be installed. Boaters could then pay toward installation costs each time tanks were pumped. The Chairman suggested that Yacht clubs throughout the Valley be contacted to see whether they were prepared to use the installations if they were available.

Mr. Farmer mentioned it was likely that boaters would discharge their wastes into the lake before loading boats onto trailers.

The Chairman replied that if facilities were provided they would likely be used. Mr. Marshall felt the provincial government should provide sewage facilities for boaters since provincial legislation controlled waste discharge to lakes.

Mr. Bawtree felt public money should not be used for an elite few who owned boats. The average tax payer should not have to pay to assist boaters in handling domestic wastes.

Mr. Marshall said that if the provincial and federal governments would co-operate in establishing these stations, boaters would eventually pay through toll systems.

Mr. Farmer suggested the matter first be brought to the attention of the cities which could then persuade the provincial government to take action. The Water Board could then follow this up.

Farmer - Bawtree:

That the Secretary-Manager write to all the cities and municipalities in the Valley drawing their attention to the Parks Branch letter, and asking them to provide sanitary stations at marinas for use by boaters.

CARRIED

Weed  
Growth:

2. Ray Williston, Minister of Lands, Forests and Water Resources - letter in reply to Okanagan Basin Water Board letter concerning weed growth in the foreshore area of Okanagan Lake. Mr. Williston replied that a survey of aquatic weeds is in process as part of the Okanagan Basin Study. An interim report is due January 1, 1972 with a final report due May 31, 1972. Pending the completion

of these studies it will not be possible to estimate the extent of aquatic weed growth on a basin wide basis. It was hoped that the studies would indicate the cause of the isolated weed growth problems, such as in the Northeast Bay of Okanagan Lake. The Department of Lands, Forests and Water Resources will be in a better position to review the suggestions contained in the Water Board letter when the technical data now being collected are available.

The Secretary-Manager informed that he was currently gathering information from various North American sources concerning aquatic weed growth and control. He stressed that information made available on January 1st. from the joint Okanagan Basin Study will only be preliminary in nature. The final report will not be available until May. It was felt that a method of weed control should be studied concurrent with the weed growth and mapping study.

Mr. Farmer mentioned there was also a weed problem in Skaha Lake and Tugulnuit Lake near Oliver. He suggested that the Board wait for the final report of the Study Committee covering the entire Basin.

Mr. Bawtree asked concerning weed growth in the Northwest Bay of Okanagan Lake. The Secretary-Manager replied that there was extensive weed growth in that Bay as well, however it was of a different species. The Northwest Bay of the Lake appears to be in a much more advanced state of eutrophication than any other portion of Okanagan Lake.

New Business:

- Applications for Pollution Control Permits: The following applications for Pollution Control Permits were presented to the Board:
- Joy Mining: 1. Joy Mining - A letter from Mr. V. Raudsepp, Chairman of the Pollution Control Board, concerning recent objections to applications for Pollution Control permits by Joy Mining Ltd., was read to the Board. The letter stated that the Pollution Control Board has decided under section 13(6) of the Pollution Control Act that the Director of the Pollution Control Branch shall take the objections as expressed into consideration in making his decision regarding the application made by Joy Mining.
- Village of Princeton: 2. The Village of Princeton has made application to discharge effluent from a municipal sewage system into a stabilization lagoon with subsequent discharge to an existing percolation basin. There will be no surface discharge. The average 24 hr. discharge would be 333,000 imp. gals.

The Secretary-Manager had visited the site. The Village of Princeton has taken advantage of an ideal location for a lagoon. Discharge from the stabilization ponds passes to a large 14 acre exfiltration basin where the effluent seeps through deep beds of natural gravel before entering the groundwater table. In the future, if required, an excellent opportunity exists for spray irrigation of sewage effluent onto nearby dry mine tailings which have been creating dust problems.

Farmer - Lawrence:

That the application for a Pollution Control Permit by the Village of Princeton be received and filed.

CARRIED

Village of Osoyoos: 3. The Secretary-Manager explained that the Village of Osoyoos was applying for an amendment to an existing pollution control permit. The application for a permit had been reviewed by the Board last year; however, the permit still has not been granted due to changes in the application.

The Village was applying to discharge effluent from a municipal sewage system into a sewage lagoon and exfiltration basins. There would be no surface discharge of water from the system. The average 24 hr. discharge would be 63,000 gals.

Brenda Mines Ltd.: 4. Brenda Mines Ltd. has applied for amendment of an existing pollution control permit to discharge effluent from a concentrator operation 16 miles northwest of Peachland. Mine tailings would be pumped into a tailings impoundment from which there would be no positive discharge. Water from the tailings impoundment would be re-cycled through the mine. The average 24 hr. discharge would be 16,669,440 imp. gals. Water seeping from the tailing dam is captured in a reclamation basin and pumped back into the tailings pond.

The Secretary-Manager had visited the hydrology installations of the mine and found them to be very efficiently operated. There is no danger of pollution from the tailings impoundment since any water escaping the tailings dam is pumped back into the tailings pond.

Eight hundred gallons per minute of fresh "make-up" water is added to the system. The mine now maintains approximately 15 water quality monitoring stations throughout the mine and surrounding streams. Results of this monitoring program are submitted to the Pollution Control Branch and the Health Unit.

Marshall - Farmer:

That Brenda Mines' application for a Pollution Control Permit be received and filed.

CARRIED

Next Meeting: The Chairman suggested that the next meeting of the Okanagan Basin Water Board be held on January 27, 1972, rather than at the start of the month. This would allow time for regional districts to appoint representatives to the Board.

Marshall - Lawrence:

That the next meeting of the Okanagan Basin Water Board be held on January 27th, 1972.

CARRIED

Meeting with Okanagan Study Committee: The Chairman said it would be desirable to have another meeting between the Okanagan Basin Water Board, the Okanagan Study Committee, and local municipal representatives to review the present status of the Okanagan Basin Study and current views on outfalls into the Okanagan system. Mr. Farmer suggested that this meeting should occur some time after the first meeting in the New Year. The municipalities and regional districts should be asked to send representatives to this meeting.



The Chairman suggested that Mayors of local municipalities be invited to this meeting with the Study Committee.

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Meeting to  
Review Briefs  
submitted  
during Public  
Meetings:

A meeting of the Water Board would be required to review briefs which had been presented at recent public meetings. The Secretary-Manager was presently having copies of the entire transcript of all meetings processed. Copies of transcripts from the Vernon and Penticton public meetings have been distributed to Board members and other officials.

Summaries of all briefs will be prepared. Over 100 separate briefs were submitted during six public meetings.

Mr. Farmer mentioned that planners from the Regional District of Okanagan-Similkameen would review and study the briefs prior to the meeting for evaluation.

The Chairman suggested that the briefs be reviewed early in the New Year.

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Association  
of B.C.  
Irrigation  
Districts  
Seminar  
November  
17 & 18:

The Secretary-Manager presented a report on the proceedings of a seminar sponsored by the Association for B.C. Irrigation Districts in Kelowna, on November 17 & 18. The Secretary-Manager had attended and participated in this seminar. It was evident that the irrigation districts would be working closely with regional districts on future subdivision and land use problems. Irrigation Districts are now involved with the supply of domestic water. Operating problems associated with domestic water supply systems are currently being reviewed by irrigation districts.

Mr. Farmer suggested that any problems irrigation districts have within a regional district, should be presented to the regional district concerned and then brought to the Water Board.

Mr. <sup>L</sup>Bennett asked whether land owners and irrigation districts were repaying ARDA money when the lands supplied with water under the ARDA scheme were turned into subdivisions. The Chairman replied that money used on the ARDA projects are repayed by the developer.

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Adjournment:

Mr. Marshall moved that the meeting be adjourned. The meeting adjourned at 3:00 p.m.

November 15, 1971

His Worship, Mayor J.R. Minshull,  
Box #160,  
Keremeos, B. C.

Dear Mayor Minshull:

The Okanagan Basin Water Board wishes to inform you that the next regular meeting of the Board will be held in Keremeos on Thursday, December 2, 1971 at 2:00 p.m. in the Victory Hall.

The Water Board invites members of your Council to attend the meeting. Upon completion of regular business, there will be an opportunity to discuss water resource related topics relevant to the Keremeos area.

The general public is also invited to this meeting.

Yours truly,

W. Parchomchuk,  
Secretary-Manager.

WP:vr