

STATE WATER CONSERVATION COMMISSION
MINUTES OF MEETING
Held in Office of State Water Commission
Bismarck, North Dakota
March 17, 1961

The regular meeting of the North Dakota State Water Conservation Commission was called to order on March 17, 1961 at 9:35 a.m. in the office of the Commission, State Capitol Building, Bismarck, North Dakota to consider routine business matters. The following members were present:

Governor William L. Guy, Chairman
Oscar Lunseth, Member from Grand Forks
W. W. Corwin, Member from Fargo
Einar Dahl, Member from Watford City
Math Dahl, Commissioner of Agriculture and Labor, Bismarck
Milo W. Hoisveen, State Engineer, Chief Engineer and Secretary, Bismarck

OTHERS PRESENT

Jim Schulz, Accountant, State Water Commission
Lawrence Croy, Cartwright
Alfred Gullickson, Cartwright

The meeting was called to order by Commissioner Lunseth, temporary chairman, with the following members present: W. W. Corwin Einar Dahl, Math Dahl and Secretary Hoisveen.

APPROVAL OF MINUTES

It was moved by Commissioner Math Dahl and seconded by Commissioner Einar Dahl that the reading of the minutes for February 1961 be dispensed with and the minutes to be approved. Motion carried.

PETITION- ESTABLISHMENT OF
IRRIGATION ON CANNONBALL
RIVER

A letter, together with a petition was received in the office of the State Water Commission from landowners along the Cannonball River in Grant County, petitioning State Water Conservation Commission and the Bureau of Reclamation to take the necessary action to bring about the early construction of facilities on and along the Cannonball River to permit the full development of the water resources of this river for irrigation and other multiple purposes. Secretary Hoisveen reported that the Cannonball River was one that was over appropriated at the present time. It will require a reservoir or reservoirs in the head waters in order to accomplish irrigation and maintain an adequate flow for other uses. The Bureau of Reclamation, at one time, had a reservoir scheduled for that area, which was objected to by the landowners. There is a possibility of putting in a reservoir at Mott, which would be helpful in keeping the river alive. It would also afford some irrigation. The Corps of Engineers has proposed a project which if constructed would divide the town of Mott. This project would otherwise require an expensive bridge to span the two sections of Mott. The only possibility of developing the water resources in the Mott area would be through the construction of a dam in the upper reaches. It would be expensive, but it could be done. The Bureau of Reclamation did make a study, but did not come up with a feasible benefit to cost ratio. Secretary Hoisveen recommended that, if the commission approved, he would write to the Bureau of Reclamation informing them of the petition and interest in that

area. It was moved by Commissioner Math Dahl and seconded by Commissioner Einar Dahl that the Secretary be authorized to write the Bureau of Reclamation advising them of the receipt of the petition and the willingness of the Commission to cooperate in this matter. Motion carried.

FARGO-RAISING 12th
AVENUE DAM

George Brekke, City Engineer, City of Fargo wrote the Commission on March 13, 1961 relative to raising the pool level of the Red River between the new dam constructed in connection with the Fargo Flood Project and the dam located at 12th Avenue North Fargo. They requested a raise in pool level of approximately 3 feet. Commissioner Corwin stated that he knew nothing about this matter. It appeared to Commissioner Corwin that it is proposed for the purpose of a river drive. It was recommended that no action be taken at this time and that Commissioner Corwin check into the situation.

WESTERN STATE ENGINEERS'
IN FIELD OF WATER
RESOURCES

A summary of the Western States activities in the field of water resources was distributed to the Commission members. This program was sponsored jointly by the National Reclamation Association and the Association of Western States Engineers.

LITTLE MISSOURI RIVER
COMPACT NEGOTIATIONS

A bill has been introduced in the United States Senate to extend the time for 8 years to negotiate and enter into a compact. This bill was introduced by Senator Young, Senator Burdick and the other Senators interested.

PAN AMERICAN PETROLEUM
CORPORATION WATER RIGHT

The Pan American Petroleum Company did, at the request of the Water Commission, cease operations in the Rival Field. It appeared that there was only 35 gpm available in the zone between 400 and 500 feet and the State Engineer ordered the Pan American Company to discontinue their test in that zone in view of the small quantity of water available. Secretary Hoisveen stated that he had received a letter from the Pan American Company stating that they desired to drill a well to the Dakota sand in Rival Field, Burke County and requested permission to do this. It was moved by Commissioner Corwin and seconded by Commissioner Math Dahl that the Commission approve the drilling of the well provided the State Geologist concurred in the matter. Motion carried.

JOE BLASL REQUEST TO
FILL HIS LOT LOCATED
IN FARGO

Mr. Joe Blasl of West Fargo in a letter to the Commission, requests permission to fill his land to meet the measurements in accordance with the records of Southwest Fargo, since he has now been assessed taxes on the entire lot. It was recommended that Secretary Hoisveen inform Mr. Blasl that there would be no encroachment on the river permitted.

Governor Buypresided at the meeting.

OAHE RESERVOIR-
CORPS OF ENGINEERS

Secretary Hoisveen informed the Commission of the meeting with the Division and District Engineers of the Corps regarding the now take line for Oahe Reservoir. As a result of the proposed restriction limits the Northern Pacific Railway desires to discontinue 66 miles of line south of Mandan because the track would be inundated in several places when the water from the Oahe

Reservoir in South Dakota backs up into North Dakota. Secretary Hoisveen told the Commission members that he would be going to Omaha on the 21st of March and he would talk to the Corps relative to this matter. It was also mentioned that the representatives of the Corps have suggested that it will be cheaper to purchase the remaining reach of the Missouri River above the basin than protect them. They also suggested that possible aggradation below the Memorial Bridge may require them to purchase land to the 1631.0 elevation for a considerable area immediately below the Memorial Bridge. The Commission showed much concern over the proposal. Commissioner Math Dahl suggested that nothing be done on this matter at the present time but to wait for a report on Secretary Hoisveen's meeting with the Corps of Engineers.

LAKE ALICE-LAKE IRVINE

Severe flooding has occurred on farm land adjacent to Lake Alice and Lake Irvine, some of which has resulted from a dam constructed by the Federal Fish and Wildlife in the 1930 drouth period. It has on several occasions flooded an area estimated to cover 20,000 acres. In 1955 the Commission cooperated with the Federal Fish and Wildlife and blasted a channel, which wasn't too effective. Last spring when floods recurred a rather small amount of water flowed from Lake Alice to Lake Irvine, and no flooding occurred around Lake Irvine. The area around Lake Alice was severely flooded. Indications were that a new channel should be made to increase the flow into Lake Irvine to relieve flooding around Lake Alice. The Commission crews in cooperation with the District did considerable work on a channel last fall. The Fish and Wildlife and the sportsmen in the area resisted the effort vigorously and we stopped work with the thought that the channel would erode through. This would be called a natural channel which would help the flooding in that particular area. It has been a most controversial matter. The people in the area do not want to see their land flooded and we have encouraged them in their effort to run a channel to Devils Lake. The flood water that will be canalized flows into Benson County. That county is fearful that they will be required to build new bridges that will be needed over an enlarged canal.

A letter was read from Mr. Fredrickson pertaining to the request made by the Commission for a control structure between the lakes. Governor Guy suggested that the channel between Lake Alice and Lake Irvine be opened. Commissioner Math Dahl stated that he and several other members of the Commission met with the Fish and Wildlife at Minneapolis to get authorization to open up the dam in 1954. The people in the Lake Alice-Lake Irvine area should have some relief. Negotiations should again be made with the Fish and Wildlife at Minneapolis and also in Washington, D. C. if necessary. Mr. Hoisveen stated that the water right of the Fish and Wildlife could probably be cancelled because they have failed to maintain the right as they have not constructed a needed control structure between the two lakes. It was suggested that the Commission try to negotiate with the Fish and Wildlife and to alert them that the Commission intends to dynamite the channel through between the Lakes. The Governor recommended that Mr. Hoisveen negotiate with the Fish and Wildlife and tell them what the Commission intends to do.

Commissioner Lunseth stated that there was considerable snow in the drainage area above Lake Alice and he suggested that the snow be measured so we would know how much water there will be. If there

is a lot of water the Commission would be justified in blasting the channel

It was moved by Commissioner Math Dahl that the Commission negotiate with the Fish and Wildlife Service relative to Lake Alice and Lake Irvine regarding the opening of a channel between the two lakes to carry off the flood waters of Lake Alice and that a control structure be installed so Lake Alice could be controlled. The motion was seconded by Commissioner Lunseth. Motion carried.

An alternate motion was made stating that if the Fish and Wildlife Service refused to cooperate and consent to the channel opening between Lake Alice and Lake Irvine that the Commission direct Secretary Hoisveen to open the channel between the lakes at the earliest possible date. The motion was made by Commissioner Lunseth and seconded by Commissioner Corwin. Motion carried.

A letter from Senator Young was read which also pertained to a request for funds to be made available to the Commission to install the Lake Alice Control structure. Secretary Hoisveen stated that it appeared that the Fish and Wildlife intended to purchase this land and are delaying the control structure installation until the report of the Corps of Engineers is made. Governor Guy felt that the Fish and Wildlife should be paying taxes on land they may acquire in the state. He was opposed to the Fish and Wildlife buying land because it was flooded. He also felt that Senator Young should be advised as to the desires of the Commission that the prolonging of this matter was unreasonable and we should not go along with it. The Governor stated he would like to see the Commission go on record, with resolutions to Senator Young and the Fish and Wildlife Service that the Commission will oppose any further acquisition of land by the Fish and Wildlife Service and does not believe that the Fish and Wildlife Service is justified in waiting for an Army investigation when relief is apparently justified without investigation. Commissioner Math Dahl moved that a resolution be forwarded to the Fish and Wildlife Service stating that the State Water Conservation Commission resists the further acquisition of land in that area and asking for immediate relief between Lake Alice and Lake Irvine. The motion was seconded by Commissioner Lunseth. Motion carried. (Resolution is Appendix A)

Mr. Hoisveen stated that about three years ago a bill was initiated in Congress requesting damages by the people in the Lake Alice Lake Irvine area whose crops were damaged by flooding. This request was later rejected by the Court of Claims. They feel they should again institute such action and wondered if the State Water Conservation Commission would support them in such action. They were of the opinion that support from the Commission would be most helpful in this action. It was moved by Commissioner Lunseth and seconded by Commissioner Math Dahl that the Commission go on record as supporting the claims for damages of the residents in the Lake Alice-Lake Irvine area. Motion carried.

Mr. Hoisveen asked the Governor if he would enter into the telephone discussion with the Federal Fish and Wildlife, as it would illustrate the unity in our attempt to correct the problem. It was agreed that the Governor and Secretary Hoisveen get together later on this afternoon to contact the Fish and Wildlife.

The Governor stated that he had called Dr. Bue and had asked him to find out from the Fish and Wildlife what was holding up the Garrison Diversion Unit project and why the department found it necessary to increase the acreage from that originally planned and inundated. He stated he had talked with Secretary Udall. The Secretary stated that he understood there was some problem with the Fish and Wildlife - that farmers were opposed to extending the wildlife area into some of the areas which would hurt their agricultural economy. The Governor said that he had told Secretary Udall that because some people in North Dakota opposed the withdrawal of land was not to be construed that the whole of North Dakota opposed such project. He also told him that the Fish and Wildlife was too aggressive in asking for additional land. He asked Dr. Bue if he was supporting the Fish and Wildlife in this action.

**FINANCIAL STATEMENT
APPROVED**

It was moved by Commissioner Math Dahl and seconded by Commissioner Einar Dahl that the February 1961 financial statement be approved. Carried.

Lunseth again presided.

The Governor left the meeting and Commissioner

**WELLS COUNTY PETITION
AND RESOLUTION -
CREATION OF WATER
CONSERVATION DISTRICT**

A petition and resolution were received in the office of the State Water Commission requesting the establishment of a water conservation and flood control district. It was moved by Commissioner Corwin and seconded by Commissioner Math Dahl that

Secretary Hoisveen be authorized to conduct the necessary hearings relative to the establishment of a water conservation and flood control district. Motion carried.

GOOSE RIVER SURVEY

A copy of a letter addressed to Governor Guy, and a copy of a resolution adopted by the City Council of Hatton, were received by the State Water Commission, requesting the Commission to conduct a survey of Goose River and Beaver Creek. A proposed resolution, for adoption by the State Water Conservation Commission, requesting the Congress of the United States to appropriate funds to the St. Paul Corps of Engineers, was read. It was recommended that a survey at this time be held in abeyance until requests had been received from Taill and Steele Counties. It was moved by Commissioner Math Dahl and seconded by Commissioner Corwin that the Commission approve the following resolution asking the Corps of Engineers for funds to conduct a feasibility study on the construction of a dam on Goose River. Motion Carried.

R E S O L U T I O N

WHEREAS, the Goose River Basin is one of the most fertile areas in the highly productive Red River of the North; and

WHEREAS, the processing of the agricultural produce grown in the area is a necessary adjunct to the economy of this basin; and

WHEREAS, the water supply in the Goose River is not adequate to meet the municipal and industrial requirements of the communities in the valley, other than during flood stage; and

WHEREAS, several devastating floods have occurred since 1947 following the time the Corps of Engineers published a negative report regarding this project proposal; and

WHEREAS, the increased frequency of flooding added to the greatly increasing demand for municipal water now appears sufficient to justify the project.

NOW, THEREFORE, BE IT RESOLVED that the State Water Conservation Commission in meeting duly assembled in Bismarck, North Dakota on March 17, 1961, request the Congress of the United States to appropriate funds to the St. Paul District Office, Corps of Engineers, for the purpose of studying the feasibility of constructing a dam on the north branch of the Goose River located in Section 12, Township 147 North, Range 54 West to store water for multiple uses.

BE IT FURTHER RESOLVED that copies of this resolution be forwarded to the Chief of Engineers, Washington, D. C.; Senators Young and Burdick; Representatives Short and Nygaard; and to the St. Paul District Office, Corps of Engineers.

**SIOUX IRRIGATION
DISTRICT BOND ISSUE**

The Sioux Irrigation Project started in 1938 and was completed in 1939. Water was received from the Yellowstone River which provided irrigation for 750 acres. The Commission, at the time of construction, did not have equipment to go below the river channel. The Commission crew did get partway down and ran into a coal vein and it was agreed with the Sioux Irrigation District Board that the work would be halted at this point. Since the Fort Peck Dam has been constructed there has been degradation of the Missouri channel which has also caused a lowering of the water level in the Yellowstone River. This has also been aggravated because of added water use in Montana as well as a series of eight low flow years on the Yellowstone River. There are periods when it is difficult to get water into the pump intakes on the various irrigation projects in the area. The Commission previously authorized some ground water studies. There is a very good possibility of irrigation on the Sioux Irrigation Project through ground water. The people in the Sioux Irrigation District feel that this is what they would like to use as a source of water supply. One well has been drilled and it is most promising. They desire to install pumps to obtain their irrigation water from ground water instead of using the Yellowstone River intakes.

This would require an expenditure of about \$25,000 by the District. At an election held on March 4, 1961 the District electors approved a bond

issue for this amount. A possible arrangement for making this bond issue would be for the Commission to issue its bonds in this amount using its Construction Bond Guarantee Fund to guarantee the issue to the extent permitted by law and purchasing Sioux Irrigation District bonds with the proceeds from such a bond issue. Commissioner Einar Dahl stated that the Bank of North Dakota has agreed to purchase the Commission bonds under such an arrangement.

It was moved by Commissioner Einar Dahl and seconded by Commissioner Math Dahl that the Commission approve the arrangement whereby the Commission will issue its Series K bonds and use the proceeds from that issue to purchase the bonds of the Sioux Irrigation District. Motion carried.

Mr. Croy and Mr. Gullickson appeared before the Commission on behalf of the Sioux Irrigation District. Mr. Gullickson stated that an election was held relative to bonding the District. There were four votes against bonding the District.

Mr. Schulz explained that any bonds issued by the Commission must mature in not more than 30 years and may be callable. The maximum interest rate on the State Water Conservation Commission Revenue bonds is 5%. If the Commission issues its bonds and uses the proceeds to purchase Sioux Irrigation District bonds, the interest rate of the Sioux Bonds should be sufficient to cover the interest on the Commission bonds plus the cost to the Commission of issuing its bonds, estimated to be $\frac{1}{2}$ of 1% greater than the interest rate of the Commission bonds.

It was moved by Commissioner Math Dahl and seconded by Commissioner Corwin that the negotiations with the Sioux Irrigation District for Sioux Bonds provide that the interest rate of such Sioux Bonds be $\frac{1}{2}$ of 1% greater than the interest rate of Commission Series K bonds to cover the cost of issuing Commission bonds with further provision that if these costs exceed the amount that would be raised by the higher interest rate, the Sioux Irrigation District will pay such additional costs. Motion carried.

GROUND WATER - U. S. GEOLOGICAL SURVEY The secretary told the Commission members that the Water Commission has cooperated to a great degree with the U. S. Geological Survey Ground Water Branch. The U. S. Geological Survey has been very slow in getting out the reports, probably because the Commission has gone ahead with the work faster than they can process the reports. The Geological Survey has a considerable backlog of reports. They feel they can complete the reports by the end of fiscal 1962, if they slow drilling activities. The program now envisions work in the Devils Lake area, Linton, Strasburg, Traill County and Steele County. The U. S. Geological Survey will report on Jamestown, Souris River, Minot and Reynolds. They will also join in on the Burleigh County and Barnes County surveys. This would provide them with an expenditure of \$62,500. Dr. Laird does put in some money - approximately \$9,000. The total program approximates \$143,000, with the State Water Conservation Commission participating. The Commission would put in \$17,500 so the Geological Survey could pay some of its help who would be used in making the reports. It was moved by Commissioner Math Dahl and seconded by Commissioner Corwin that the ground water survey program be approved. Motion carried.

**WEST DICKEY COUNTY
WATER CONSERVATION
AND FLOOD CONTROL
DISTRICT**

Secretary Hoisveen reported on the meetings held in connection with the establishment of a water conservation and flood control district in Dickey County. The residents in the Ellendale area favored the establishment of a water conservation and flood control district, while the residents in the Oakes area were not in favor of a flood control district. After considerable discussion it was found advisable to establish a West Dickey County Water Conservation and Flood Control District, which would include the drainage basin of the Maple and Elm Rivers.

Commissioner Corwin moved the adoption of the following resolution, which motion was seconded by Commissioner Math Dahl:

R E S O L U T I O N

WHEREAS, the Board of County Commissioners of Dickey County, North Dakota did on the 6th day of January, 1961, file in the office of the State Engineer a request or petition requesting this Commission to establish a water conservation and flood control district embracing the territory contained in Dickey County; and

WHEREAS, public hearings on the petition were held in the City of Oakes and the City of Ellendale; and

WHEREAS, a large number of owners of land situated in the Dickey-Sargent Irrigation District of Dickey County objected to the inclusion of their lands in the proposed water conservation and flood control district; and

WHEREAS, the Board of County Commissioners of Dickey County has agreed and consented to the exclusion of such lands from the proposed district.

NOW, THEREFORE, BE IT RESOLVED that the petition of the Board of County Commissioners of Dickey County be granted in part and that a water conservation and flood control district to be known as the West Dickey County Water Conservation and Flood Control District be established.

BE IT FURTHER RESOLVED that the chairman and secretary of this Commission be authorized and directed to execute the order of this Commission establishing the West Dickey County Water Conservation and Flood Control District.

On Roll Call all members voted "aye" and the foregoing resolution was duly adopted.

**AGREEMENT - HIGHWAY
DEPARTMENT RE: DRAINAGE
PARTICIPATION**

The Commission has conducted a cooperative drainage program with the Highway Department for the past year. It is now recognized that the Highway Department has benefited greatly by the drainage systems put in cooperatively by the State Water Conservation Commission and legal drain boards. The Highway Department has put very little into it. Considerable time has been spent in discussing this situation with the Chief Engineer. An agreement has been drawn up whereby they would put in 20% of the cost of these drains wherever they are affected by the drainage program, not to exceed \$18,000 in any one year. (See Appendix B) It was moved by Commissioner

Math Dahl and seconded by Commissioner Einar Dahl that the agreement between the Highway Department and the State Water Conservation Commission relative to the drainage program be approved. Motion carried.

**RESOLUTION-WITHDRAWAL
OF WATER FROM MISSOURI
RIVER**

Secretary Hoisveen stated that a directive pertaining to the withdrawal of water from the Missouri River was anticipated. He recommended that this be taken up at the next meeting, or at a later meeting.

The meeting recessed until 1:10 p.m.

The Commission reconvened with the same members in attendance as were at the morning session.

**CITY OF WILTON GROUND
WATER STUDY**

The city of Wilton has requested a ground water survey and has advised the Commission that they would contribute \$700 toward such a survey. This would be that area that lies above Burleigh County. The State Geologist does not believe there is any possibility of getting water in that area. This could be worked in connection with the Burleigh County Survey. This is for a municipal water supply. The city of Wilton does not have an adequate water supply. It was recommended that if the city of Wilton would contribute \$1000 to this survey it could be done in connection with the Burleigh County survey. It was moved by Commissioner Einar Dahl and seconded by Commissioner Corwin that the Commission conduct the ground water survey for the city of Wilton if they forward a remittance in the sum of \$1000. Motion carried.

**WILLIAMS COUNTY GROUND
WATER SURVEY**

Williams County is interested in obtaining an irrigation project along the Little Muddy River. At one time there was a possibility that a dam would be constructed on the Little Muddy. The residents of Williams County now believe they could irrigate from underground sources. Secretary Hoisveen informed the Commission members that Mr. Phil Nelson, investigation engineer, was in Williams County discussing this matter today. It has been implied that the county would match the Commission's participation to the extent of \$3000. It was suggested that the Commission take no action until a report has been received from Mr. Nelson. The total cost of such survey would be \$6000. It was moved by Commissioner Corwin and seconded by Commissioner Einar Dahl that the Commission crews make a survey of the Williams County area, with the understanding that Williams County participate to the extent of \$3000 should Mr. Nelson report favorably on the Williams County proposal. Motion carried.

**MAPPING PROGRAM-TOPOGRAPHIC
BRANCH OF U. S. GEOLOGICAL
SURVEY 1961-1963**

The U. S. Geological Survey has initiated a program whereby the State Water Commission receives a number of quadrangle maps of various areas of North Dakota. The mapping has been concentrated around the larger cities in North Dakota, to attract industry. Mapping should be done around Grand Forks and Wahpeton at this time. The U.S. Geological Survey has 7½ minute quadrangles of the Grand Forks area which should be brought up to date. It was suggested that the area around Wahpeton be included in the Garrison Diversion Unit. It was moved by Commissioner Corwin and seconded by Commissioner Einar Dahl that the State Water Commission

be authorized to continue the mapping program in the Grand Forks and Wahpeton areas with the U. S. Geological Survey. Motion carried.

**SOURIS RIVER BOARD
OF CONTROL REPORT**

Secretary Hoisveen reported on the International Souris River Board of Control report. Canada has been authorized by this Board to retain 50% of the flow of the Souris River in Canada. This past year 28.2% was diverted to Canada and 71.8% remained for use in North Dakota

**INTERNATIONAL ENGINEERING
COMMITTEE REPORT ON
PEMBILIER DAM STUDIES**

Secretary Hoisveen attended the meeting of the International Engineering Committee on the Pembilier Dam in St. Paul. The Pembilier Dam studies will also be presented at the meeting of the International Joint Commission in Washington, D. C. in early April. Secretary Hoisveen stated that it looked as though this project would be a Canadian-American venture.

CAR PURCHASES

The Commission members discussed the replacement of cars for the State Water Conservation Commission. There is an International Carryall, which has a mileage of 45,000; a 1958 Chevrolet Suburban, which has 70,000; and 1958 Plymouth which has 60,000 miles, which are to be replaced. Bids have been sent out relative to the purchase of the new cars and will be reported to the Commission at the next meeting.

**PAGE GROUND WATER
SURVEY**

Mr. Burdick, Consulting Engineer from Grand Forks, reported to the State Water Conservation Commission that the City of Page desired to have a ground water survey made at an early date. This would cost at least \$1500 which would not be matched by the U. S. Geological Survey. The city of Page is having a meeting Tuesday night, March 21, 1961. Mr. Burdick will explain the procedure to the city of Page. The Commission has a survey in the Reynolds area and this could be taken care of at the same time. It was moved by Commissioner Corwin and seconded by Commissioner Einar Dahl that upon receipt of \$1500 from the city of Page the commission initiate a ground water survey in the Page area. Motion carried.

**SURVEYS ON SOURIS RIVER
FOR ADDITIONAL IRRIGATION
PROJECTS**

A request has been received from the County Extension Agent and Mr. J. C. Eaton for a current survey on the Lee and Hardy Projects on the Souris River in the vicinity of the Eaton Project. The purpose of the survey would be for irrigation and the purchase of water from the Garrison Diversion Unit. It was recommended that when one of the survey parties is available a survey of this area would be made. It was moved by Commissioner Corwin and seconded by Commissioner Einar Dahl that a survey be made of the foregoing area when conditions warrant it. Motion carried.

GEODIMETER

Secretary Hoisveen commented on the desirability of the State Water Commission purchasing a Geodimeter. He explained the accuracy of measurements with this instrument.

The Water Commission has refrained from doing certain types of work, such as making boundary surveys, because of the lack of proper equipment to conduct such surveys. The approximate cost of such an instrument would be approximately \$6800. It was suggested that when the Commission has a project requiring such an instrument that the Commission members be contacted by letter relative to the advisability of purchasing a Geodimeter. It was also suggested that the life expectancy of the instrument be checked into.

adjourned at 2:00 p.m.

There being no further business the meeting

Respectfully submitted,

Milo W. Hoisween
Secretary

ATTEST:

William L. Bury
Governor

APPENDIX A

R E S O L U T I O N

Adopted by the North Dakota State Water
Conservation Commission March 17, 1961

Opposing Purchase of Land in Ramsey County, North Dakota
By the Federal Government

WHEREAS, The flooding of Lake Alice and Lake Irvine in Ramsey County, North Dakota has frequently caused extensive damage to the fertile farm lands lying adjacent to those lakes and has often made farming operations thereon impossible; and

WHEREAS, it is rumored that the Federal Government contemplates the purchase of a considerable portion of such lands for the purpose of enlarging the waterfowl refuges of Lake Alice and Lake Irvine; and

WHEREAS, the acquisition of additional lands by the Federal Government for the purpose of enlarging the area around Lake Alice and Lake Irvine for the propagation of waterfowl, or as a refuge for such fowl, will further reduce the tax base of Ramsey County, and particularly of the school district in which the lands planned to be purchased are situated;

NOW, THEREFORE, BE IT RESOLVED by the North Dakota State Water Conservation Commission in meeting assembled in the City of Bismarck, North Dakota this 17th day of March, 1961, that this Commission hereby expresses its opposition to the purchase of lands lying adjacent to Lake Alice and Lake Irvine in Ramsey County, North Dakota but support the plan to relieve flood conditions by construction of an adequate flood way or channel from Lake Alice and Lake Irvine to Devils Lake.

BE IT FURTHER RESOLVED that copies of this Resolution be mailed to the Secretary of the Interior, to our Senators and Representatives in Congress and to interested state and federal agencies.

APPENDIX B

A G R E E M E N T

For Participation in Payment of the Cost of Construction
or Reconstruction of Legal Drains Established Under the
Laws of the State of North Dakota

THIS AGREEMENT made and entered into this 24 day of March 1961 by
and between the North Dakota State Highway Commissioner, hereinafter
referred to as the Commissioner, and the State Water Conservation Commis-
sion acting by and through the State Engineer as its executive officer
and Chief Engineer, hereinafter referred to as the State Engineer.

WITNESSETH THAT

WHEREAS, it is a recognized consequence of highway construction
that road ditches not only drain water from the highway but also
collect water from lands through which the highway runs: and

WHEREAS, it is also recognized that the drainage of waters from
highways and the drainage of waters from farm lands through which high-
ways are built present an interrelated problem in that benefits accrue to
both the highway and adjacent premises when adequate drainage is provided.

IT IS THEREFORE UNDERSTOOD AND AGREED that the Commissioner will
participate in paying the cost of construction of a drain which benefits
a highway under his jurisdiction and supervision, provided that a part
of the cost of the construction is also borne by the State Water
Commission; that the amount of such participation by the Commissioner
in paying the cost of any drainage project shall be determined by
agreement between the Commissioner and State Engineer, but the amount
to be paid by the State Highway Commissioner shall not be in excess of
twenty per cent of the cost of any drainage project and the total amount
paid for all drains in any fiscal year shall not exceed \$18,000, it
being understood and agreed, however, that this agreement does not,
and cannot, in any degree of manner alter or change the responsibility
of the Commissioner under existing statutes pertaining to drainage.

IN TESTIMONY WHEREOF the parties to this agreement have hereunto
set their hands and seals this 24 day of March, 1961.

NORTH DAKOTA STATE HIGHWAY COMMISSIONER

_____)
Witness)
_____)
Witness)

NORTH DAKOTA STATE WATER CONSERVATION
COMMISSION

By _____
State Engineer and Chief Engineer
of the Commission

_____)
Witness)
_____)
Witness)

NORTH DAKOTA STATE WATER CONSERVATION COMMISSION
 MONTHLY REPORT OF APPROPRIATIONS AS OF MARCH 31, 1961
 1959 - 1961 APPROPRIATIONS

FUND	AVAILABLE FUNDS		DISBURSEMENTS		FUND BALANCES		
	APPROPRIATION	RECEIPTS	TO DATE	MAR '61	UNEXPENDED	ENCUMB.	UNENCUMB.
1. COMM PER DIEM & EXP	6,000.00	.00	4,647.53	.00	1,352.42	237.06	1,115.36
2. ADMINISTRATION	49,200.00	605.62	41,420.04	2,007.36	7,385.64	969.92	7,415.72
3. MAINTENANCE OF DAMS	115,000.00	129,714.50	229,316.20	5,356.83	15,398.30	1,151.53	14,246.77
4. INT'L & INTERSTATE EXP	10,000.00	23.18	6,798.52	522.76	3,224.66	122.13	3,102.49
5. TOPOGRAPHIC SURVEYS, USGS	30,000.00	.00	22,381.47	773.66	1,118.53	1,118.53	.00
6. HYDROGRAPHIC SURVEYS, USGS	27,500.00	900.00	26,986.03	.00	1,413.97	1,413.97	.00
7. ENGR & GEOL SURVEYS, USGS	57,500.00	.00	41,354.40	5,255.19	16,145.60	13,958.09	2,187.51
8. COOP WITH U.S. DEPT, ETC	57,000.00	.00	44,121.88	1,046.09	12,878.12	5,584.12	7,294.00
9. ENGINEERING INVESTIGATIONS	138,000.00	.00	116,722.35	3,981.31	21,277.15	970.28	20,298.87
10. ADM OF WATER LAWS	6,000.00	.00	2,195.46	688.73	3,804.54	12.73	3,791.31
11. OASIS CONTRIBUTIONS	6,500.00	2,957.83	6,739.05	.00	2,718.76	1,058.02	1,660.76
	<u>502,700.00</u>	<u>134,201.19</u>	<u>549,103.48</u>	<u>19,638.03</u>	<u>27,717.71</u>	<u>26,604.43</u>	<u>61,113.26</u>

NORTH DAKOTA STATE WATER CONSERVATION COMMISSION
STATUS OF CONTINUING APPROPRIATIONS
AS OF MARCH 31, 1961

FUND	AVAILABLE FUNDS		DISBURSEMENTS		UNEXPENDED	FUND BALANCES	
	APPROPRIATION	RECEIPTS	TO DATE	MARCH '61		ENCUMB.	UNENCUMB.
20. Multiple Purpose	200,000.00						
"Car Fwd"	178,751.98	29,167.20	225,170.41	27,742.03	182,748.77	179,403.47	3,345.30
21. Const. Bond Guar.	90,000.00	12,496.79	20,539.00	.00	81,957.79	.00	81,957.79

Note - Fund #21 receipts are obtained from retirement of and interest on securities that were in the Commission's sinking fund in excess of the amount required to retire the series "J" Bond Issue on December 10, 1957. Original disbursements from fund #21 were made during the early 1940's in accordance with Section 61-02-56 of the Century Code which provides that the Commission may guarantee or insure, or agree to pay, the interest on and principal of Commission Revenue Bonds, not exceeding 20% of the par value of any such bonds.

SCHEDULE OF DISBURSEMENTS

Mar. 9'40 - Guarantee Series "F" Bonds - Lewis & Clark Project	1,280.00
Nov. 28'40- Guarantee Series "F" Bonds - Lewis & Clark Project	4,120.00
Mar. 10'41- Guarantee Series "G" Bonds - Bismarck Irrigation Project	3,300.00
May 12'41 - Guarantee Series "I-B" Bonds - Lewis & Clark Project	6,000.00
Apr. 28'42- Guarantee Series "I-B" Bonds - Lewis & Clark Project	1,800.00
Feb. 27'43- Pay interest on Bond #2, Series "F" - Later Repaid	1,080.00
Oct. 30'44- Guarantee Series "J" Bonds - Bismarck Irrigation Project	2,959.00
	20,539.00

SCHEDULE OF BONDS & INTEREST RECEIVABLE

<u>TYPE</u>	<u>DUE DATE</u>	<u>INTEREST RATE</u>	<u>INTEREST REC. TO MATURITY</u>	<u>PRINCIPAL AMOUNT</u>	<u>TOTAL INCOME ANTICIPATED</u>
U. S. Series G Bonds	3-62	2.50%	125.00	5,000.00	5,125.00
U. S. Series K Bonds	5-65	2.76%	186.30	1,500.00	1,686.30
U. S. Series K Bonds	4-67	2.76%	358.80	2,000.00	2,358.80
U. S. Treasury Bonds	12-15-68	2.50%	600.00	3,000.00	3,600.00
Sioux Irrigation Dist. Bonds 1984 Serially		2.25%	5,332.50	17,500.00	22,832.50
			6,602.60	29,000.00	35,602.60

The Construction Bond Guarantee Fund will attain its original cash level of \$90,000 in 1964 at which time legislative action will be required to determine disposition of the funds received in excess of the original appropriation as noted in the opinion of the Attorney General, dated January 2, 1958.

Fund Balance.....	81,957.79
	117,560.39
Less Original Appropriation.....	90,000.00
Excess.....	27,560.39

NORTH DAKOTA STATE WATER CONSERVATION COMMISSION
 MONTHLY REPORT OF APPROPRIATIONS AS OF MAY 31 1961
 1957-1959 APPROPRIATIONS

FUND	AVAILABLE FUNDS		DISBURSEMENTS		FUND BALANCES		
	APPROPRIATION	RECEIPTS	TO DATE	UNEXPENDED	ENCUMB.	UNENCUMB.	
1. COMM PER DIEM & EXP	6,000.00	.00	6,000.00 #	.00	.00	.00	.00
2. ADMINISTRATION	47,000.00	2,797.33 &	49,579.27	.00	218.06	.00	218.06
3. MAINTENANCE OF DAMS	105,000.00	101,910.58	206,910.58	.00	.00	.00	.00
4. INT'L & INTERSTATE EXP	8,000.00	14.85	7,997.33	.00	175.2	.00	175.2
5. TOPOGRAPHIC SURVEYS, USGS	30,000.00	.00	30,000.00	.00	.00	.00	.00
6. HYDROGRAPHIC SURVEYS, USGS	27,500.00	.00	27,500.00	.00	.00	.00	.00
7. ENGR & GEOL SURVEYS, USGS	37,500.00	5,306.81	42,806.81	.00	.00	.00	.00
8. COOP WITH U. S. DEPT, ETC	50,000.00	10.00	50,004.93	.00	5.07	.00	5.07
9. SMALL PROJECTS, ETC	113,000.00	2,374.98	120,374.98 @	.00	.00	.00	.00
10. ADM OF WATER LAWS	6,000.00	.00	6,000.00	.00	.00	.00	.00
11. OASIS CONTRIBUTIONS	3,800.00	4,541.24 %	8,341.24	.00	.00	.00	.00
	<u>438,300.00</u>	<u>116,955.79</u>	<u>555,515.14</u>	<u>.00</u>	<u>240.65</u>	<u>.00</u>	<u>240.65</u>

INCL TRANSFER TO FUND #2 -\$523.62
 @ INCL TRANSFER TO FUND #2 -\$97.57
 & INCL TRANSFER FROM FUND #1 -\$523.62 & FUND #9 -\$97.57
 % TRANSFER FROM EMERGENCY COMM -\$4,541.24

3-31-60

NORTH DAKOTA STATE WATER CONSERVATION COMMISSION
PAYROLL - MARCH 31, 1961

SALARIED EMPLOYEES

NAME	POSITION	PAY GRADE	REMARKS	SALARY MAR '61	WITH. TAX	SOC. SEC.	HOSP. INS.	BONDS ETC	NET PAY
HOISVEEN, MILO W.	STATE ENGR	O-8	INC JUL '60	927.67	139.20	27.33	17.20	18.75	724.69
ANDERSON, LARRY	RODMAN	B-7	INC JUL '60	196.67	25.60	5.90			165.17
BAESLER, GORDON	DRAFTSMAN	F-6	INC JUL '60	364.17	45.50	10.93			307.74
COOPER, VERNON S.	ASST SECY	1/2M-6	INC JUL '60	383.34	71.00	11.52	17.20		284.12
EMTER, JEANNE	TYPIST	B-7	INC DEC '60	196.67	25.60	5.90	17.20		147.97
FREDRICKSON, FRED	COORDINATOR	G-4	INC JUL '60	399.67	41.30	11.99			346.38
GEHRING, EDNA	FILE CLERK	C-7	INC JUL '60	226.17	40.70	6.79	7.05		171.63
GRINDBERG, ALAN	ENGINEER	K-2	INC FEB '61	323.67	106.20	17.51	7.05	175.00	277.91
HILAND, LEONE	CH STENO	F-6	INC JUL '60	364.17	45.50	10.93	7.05		300.69
KNUTSON, LEWIS	DRILLER	F-5	PER OCT '60	354.67	34.10	10.64			309.93
LAUINGER, ANTON	DRILLER	F-2	PER FEB '61	326.17	30.30	9.79	17.20		260.89
MOSER, IRVIN	RODMAN	B-9	INC JUL '60	206.67	27.10	6.20	7.05	18.75	147.57
NELSON, C. P.	ENGINEER	K-3	INC FEB '61	600.67	81.60	18.02			501.05
PUTZ, ROY	OFF ASST	A-10	INC JUL '60	189.50	14.20	5.69	7.05		162.56
REITER, DANIEL	FOREMAN	B-1	INC APR '60	416.67	33.30	12.50	17.20	18.75	334.42
RIVINIUS, MERRIL	ENGINEER	H-8	STA FEB '61	504.17	01.80	15.13	7.30		399.94
SACKMAN, EUGENE	INST MAN	G-1	INC MAY '60	366.67	15.50	11.00	17.20	14.57	308.30
SANDWICK, HAZEN	ENGINEER	K-7	INC JUL '60	668.67	68.30	20.06	17.20	37.50	525.11
SCHMID, ROGER	ASST INV ENGR	F-10	STA MAR '61	244.90	26.65	7.34			210.81
SCHULZ, JIM	ACCOUNTANT	G-3	INC FEB '61	388.67	49.80	11.56			327.21
SCHWINKENDORF, DON	INST MAN	E-6	INC AUG '60	306.67	45.40	9.20			252.07
TIMM, ROBERT J.	ASST ST ENG	K-9	INC JUL '60	702.67	76.00	21.08	17.20		588.39
WALTERSON, HOWARD	FOREMAN	H-1	INC APR '60	416.67	53.30	12.50	17.20		333.17
WALTERSON, JEAN	DRAFTSMAN	E-3	INC FEB '61	282.67	31.10	5.48			243.09

HOURLY EMPLOYEES

PETERSON, JOHN	OPERATOR	1.90	STA FEB '61	118.75	13.20	3.56			96.99
VOELLER, PIUS	OPERATOR	1.85	STA FEB '61	115.63		3.47			112.16
				<u>9,953.09</u>	<u>1,236.75</u>	<u>295.61</u>	<u>197.35</u>	<u>283.42</u>	<u>7,339.96</u>