N.W.T. WATER BOARD
Public Hearing
GIANT YELLOWKNIFE MINES LIMITED
October 10, 1974

Yellowknife Indian Band Presentation	Indian Brotherhood Presentation (G. Sutton) Page 1	Giant Presentation (P.J. Raleigh)	Giant Presentation (D.J. Emery)	Introduction	
itation	n (G. Sutton)	.gh)	٥		
B.00	Page	Page 8	Page 2	Page 1	
_	ш	00	N	H	

NORTHWEST TERRITORIES WATER BOARD PUBLIC HEARING

YELLOWKNIFE, NORTHWEST TERRITORIES

meeting to order at 10:10 a.m. on Thursday, October Mr. J.A. Bergasse, Vice-Chairman, N.W.T. Water Board 10,

rgasse: Good morning ladies and gentlemen, I would like to open this public hearing of the Northwest Territories to to open reading the application by Giant Mines to use water for mining and milling purposes.

for the public to discuss the proposed use of water, which is a public natural resource, with the applicant. I would like to emphasize that the Board is here to listen to what by Section 15 water resources to say. They are not here to pass opinions and I would like to emphasize that we would like the questions and the briefs kept to the particular application that the Board is considering at the hearing to-day. I would also ask that any questions from the floor be disceted to the applicant applicant has to say, and listen to The public these hearings is that they provide an opportunity of the Northern Inland Waters Act. The purof the Northwest Territories are hearings on applications for the not here to pass opinions and I to say, and listen to what the public has

to making presentations, "the "the cover time of their presentations," the art the conjugate the foregreen the floor presentation they dill make, and, at the end of that period, then tell a feet for the heids to be peaked of that period, then tell a feet for the heids to be peaked to the peaked number of the people who have indicated make verbal or written presentations. procedure, I will that they have wi Then, at the co with them who will ask the applicant

question or to present a brief that they go to the position so that we can pick it up on our recording machine, and that they state thatr name and the organization that they represent. This makes it easier for us, or for whoever represent. transcribing. would also ask that when someone gets up to

member of we get underway I believe Mr. Campbell who the Water Board has a statement to make.

dent. Consequently, I propose to temporarily vacate my seat Mines Limited, I wish to indicate that I am personally in a position of conflict of interest in that I am an employee of that company holding the position of General Superintenmpholl: Thank-you Mr. Chairman. Prior to the commence-ment of the hearing on the application by Giant Yellowknife ditions, if any, may be imposed. Therefore, Mr. Chairman, I wish to be excused from sitting with the Board during this this matter. Obviously, I shall not vote respecting whether particular application and will in no way attempt to play an active role nor to influence the Board members respect not engage either directly or indirectly in public or private discussion with other Board members with respect to this this application is under discussion. As a result I will as a member of the Northwest Territories Water Board while licence should or should not be issued nor to what con-

Mr. Bergasso: Thank-you Mr. Campbell, I will make sure that this is written into the record of the public hearing. I would now like to ask Mr. Emery if he would make his pre-

ery: Thank-you Mr. Chairman, members of the Water Board. ladies and gentlemen. My name is pavid Enery, I am the Mine Manager at Giant Yellowknife Mines Limited.

I would like to introduce the propie we have here for this hearing, and also members of the mine staff this are strending, J.M. Mortkmer, chief healthrogical implemen-placentings middle Mines Linkingd, an associated conver-from Toconto ——he is also the consulting metal-introduced than "Nationantine Mines M. Morthers". Par Assistin, Chief

Mr. Chairman, I propose to read the submission that we wealable at the door and then I would sak Mr. Raleigh to comment on the tailings disposal system, and at that point, after the completion of his presentation, we would welcome

provides direct employment The company appreciates th continuous production since Giant Yellowknife Mines Limited operates a gold mine Yellowknife in the Northwest Territorics, and has been in company appreciates this opportunity to appear before water Board to explain the scope of the operations an requirements. Board to explain the e 1948. At capacity, the mine for approximately 400 people.

Wining and Willing - Ore is obtained f ground and surface workings at the rate of when at full production. It, and I mean by characterized by 40 to 80% quartz carbonate arsenopyrite and other metallic minerals. Arsenic content is 1.0 to 1.5% or approximately 10,000 to 15,000 parts per million. obtained from both under-he rate of 1100 tons per day d I mean by it the ore, is and 10% pyrite,

The core is consist day to Myo and then ground in a water makin to a very fit as the refer at annual 200 manh. The contribute of the total to support into a floatation circuit where make you can be considered as the contribute of the vertex contributed to the vertex contributed to the vertex contributed to the contributed to a floatation of the contributed to the contributed the contribu sodium isopropyl 1012, polypropylene

to the mill circuits for re-use except for approximately After gold has been removed, the cyanide solution is returned clarified and gold precipitated out by adding zinc dust. solution to dissolve gold. washed in water and finally treated by a sodium cyanide tailings area to prevent metallurgical problems. which must be discharged with other mill wastes into

Dust from the roasting process is collected in Not cottrell precipitators and then quenched. Cold in the dust is also extracted by cyanide solutions using activated carbon as the collecting agent.

oxides are pumped to exemit and antimony of the co-ground in the permafront layer and separated from of the mine by cement bulkinesds. from the roaster are cooled and filtered through the rest These

1,000,000 gallons per day. 60,000 from the City of Yellowknife water for domestic use in the Giant camp Water Usage - rresu - results as a maximum rate of about tained from Yellowknife Bay at the maximum rate of about non-non-non-dallons per day. 60,000 gallons are also drawn Baker Creek. and sewage from the plant and camp areas are pumped to the tallings disposal area. The mine water is discharged into pumped up from the main shaft into Baker Creek right And this is Baker Creek running along here. And maybe I can indicate that on the map. Fresh water for the operations is obsupply to provide Mill waste water

remainder underground. ore treated. Of this, 80% is used in the mill and the In August, the latest month for which we have available figures, water usage was 978 imperial gallons per ton of

Chinges are currently heing made to mill circuits in order to reduce the water unger by 257 maperial gallons per tan. Expenditures to the end of August totalized \$47,000; and smother \$25,000 will be required to complete this project. The work should be finished by october 30th of this year. Further reductions in water unger any be possible by in-plant blickening of finishin tailings for water spacetion and greater the protection and principles.

water usage in the underground



ried out to reduce s. Better control of

using the mine water. and studies are also being made on the feasibility of retempted where possible by plugging at old diamond drill holes seepages of ground water into the workings is being at-

has been co-operating with various governmental agencies Bay has been done for many years and both mill effluents and in water pumped Effluent quality - The quality of effluents has been of concern to the company since commencement due to the high content of arsenic in the ores. Monitoring for arsenic in least ten years. In recent years the company are also carrying out studies of effluent gualities. on a daily basis for from Yellowknife

Since 1967 reductions have been made in the soluble areant levels by adding in excess of 3,000 the of line per day to effluents before discharge from the mill. This procedure causes precipitation of arsenic as insoluble areanates in the tuilings area and effectively reduces soluble arsenic content by 95%.

the effluents, which of course is our ultimate goal. remove all traces of arsenic and other contaminents from number of experiments to determine whether it to reduce arsenic and other contaminents even No practical technology has yet been developed the past four years, mine staff have conducted a of experiments to determine whether it is possible on arsenic and other contaminents even further.

methods for waste water treatment. Giant Mines will be one program to explore two or three of the more promising Energy, Mines and Resources is undertaking an investigative operation with Environment Canada and the Department of Recognizing the need to eliminate undesirable constituents wherever possible, the gold mining industry, in cois hoped that within one year practical technology can evolved that will enable the industry to further imten companies participating in the project and eliminate undesirable constit-

Thilling Disposal - Approximately 600,000 gallons of water and 550 come of solida or this are transported by pipoline to the tailings disposal area each day at current rates of production. The solida settle cut in the tailings

this dam into Baker Creek. decant which is normally clear discharges into Baker C
-- so the tailings pumped out into the pond circulate
through here and the clear effluent is decanted across discharges into Baker Creek

with a resultant ineffective ponding for proper decantation, paring the spring run-off, turbulent flow develops producing inadequate sedimentation of the tailings discharged during severe temperatures in winter months. Below freezing there is an excessive build-up of a combination of ice and tailings The system of tailings containment to date has been only partially effective on a year-round basis because of

discharge water on a improve sedimentation of tailings and to clarify year-round basis, it

- an insulating layer of ice. up the depth of water held during the
- another clarification pond, and increase the time of retention by creation
- applying an engineered seal to the upstream slopes. reduce the seepage through existing dams

seepas control has been an energisy problem particu-beth winting perman praceful Expenditures in 1974 alone to the end of September totalled \$75,000 and this was in addition to other large same that were required as a result of recent seepages, America 2220,000 will be required to complate the current sapage control program as well as other improvements to the tailings disposal area. This replacet bound has account.

and improvements of old structures. Bert Hoare Consulting Engineers of Ottawa have been retained by clant Yellowknife Wines Limited to review the tailings disposal system and provide technical assistance. General engineering for the project is being provided by our associated company, Falconbridge Mickel Mines Limited Geocon of Toronto has been retained by Falconbridge as Geo-technical Consultants to assist in the designing of new dama

sites are being carried out and construction work our tailings disposal system. Competent consulting engineers have been hired and mine management is giving priority to their recommendations. Foundation studies of the dam Now in concluding I would like to say to the Water go mand that in making application for the water use, we wish to emphasize that positive steps have been taken to improve the discovery swater me Commencent country to improve is under-

Our objectives are to decrease seepage, increase stability of existing structures, improve effluent qualities, and in general arrive at a long term tuilings diagosal plan that will meet environmental guidelines established by regulatory agencies.

It is hoped that, in establishing implementation schedules and effluent quality guidelines, you will recognize climatic and technical difficulties being faced, and efforts being made, both by the company and the gold processors as

Thank-you very much Mr. Chairman.

explain as best we can to you just how it operates and what plans we have for improving it in the future. I would like now to ask Mr. Pat Raleigh to go a little more into the detail of our tailings disposal system becaus I am sure there are many in Yellowinthe that are concerned about this aspect of our operation and we would like to

Define Mr. Makigh comes up maybe I could give you at little bit of his background so Then you have his reshuful mullifeastions. He is, as I have markinond, the Chief Boulears of Falconfudge Nickel Mines Limited he his a 1949 graduate from the University of Manifesh has a 1949 graduate from the University of Manifesh has a 1949 graduate from the University of Manifesh has a 1949 graduate from the University of Manifesh has a 1949 graduate from the University of Manifesh has a Manifesh has a 1949 graduate from the University of Manifesh has a Manifesh has a 1949 graduate from the University of Manifesh has a 1949 graduate from the University of Manifesh has a 1949 graduate from the University of Manifesh has a 1949 graduate from the University of Manifesh has a 1949 graduate from the University of Manifesh has a 1949 graduate from the University of Manifesh has a 1949 graduate from the University of Manifesh has a 1949 graduate from the University of Manifesh has a 1949 graduate from the University of Manifesh has a 1949 graduate from the University of Manifesh has a 1949 graduate from the University of Manifesh has a 1949 graduate from the University of Manifesh has a 1949 graduate from the University of Manifesh has a 1949 graduate from the University of Manifesh has a 1949 graduate from the University of Manifesh has a 1949 graduate from the University of Manifesh has a 1940 graduate from the University of Manifesh has a 1940 graduate from the University of Manifesh has a 1940 graduate from the University of Manifesh has a 1940 graduate from the University of Manifesh has a 1940 graduate from the University of Manifesh has a 1940 graduate from the University of Manifesh has a 1940 graduate from the University of Manifesh has a 1940 graduate from the University of Manifesh has a 1940 graduate from the University of Manifesh has a 1940 graduate from the University of Manifesh has a 1940 graduate from the Manifesh has a 1940 graduate from the 1940 graduate from the 1940 grad trank fixeds. In high he juried instable hydro on the investigation and easier of polyset. He has been with Falcenbridge Bides have been with Falcenbridge Bides have been such project and a lot of the second hydrotter where and talkings pend design, of the second hydrotter between the talkings pend design, of the second hydrotter between the polyset and the talkings pend design, of the manual properties between the talkings of spend systems that become of the best of the talkings of spend systems that he design is the talkings of spend systems that he design is the polyset between the best of the talkings of spend systems that the best of the talkings of spend systems that the talkings of the he is a professional engineer in the province of Ontario.

From graduation to 1960 he worked in the mining and industrial fields. In 1960 he joined Manitoba Hydro on the

South America, Mr. Raleigh. the company have taken him property out west of the lakehead. across Canada His and to Central assignments

Raleigh: Water Board to-day. the geotechnical Thank-you Mr. Emery. are including in our presentation to the objectives that we have included in like to outline

on the south end of the number 4. The tailings there since the mid 60's. There is one other small dyke on the south end of the tailings area which we have numb number 2 to act as a clarification area and aging area for the water that we are discharging. Dyke number 3 is on the north-east sale of our pond; it is basically splic into two sections by a section of high ground. It has been numbered number 2 which acts as a diaphragm and has been hold the solid material in area number 1 and allow area years ago the General Engineering Department of Falconbridge Nickel Mines was approached by Giant to assist them in im-proving this situation. the volumes of material that we ex the next several years; and about years ago the General Engineering huproved operating conditions we have been concerned with the espablity of the system that we are using now to contain the volumes or access the system that we are using now to contain the volumes or access the contains the volumes of the system that we are using now to contain the volumes of the system that we are using now to contain the volumes of the system that we are using now to contain the volumes of the system that we are using now to contain the volumes of the system that we are using now to contain the volumes of the system that we are using now to contain the volumes of the system that we are using now to contain the volumes of the system that we are using now to contain the system that the system that we are using now to contain the system that the system is on the north-west side of the pond, it is the last em-bankment that holds water from the tailings pond. Backing up through the system we have a long dyke which we have what is necessary to improve the stability of the existing has on the board here. Our first objective is to determine ponds that are shown in red on the drawings that Mr. Emery break s location into this system for several Now we have a dyke that we have numbered number 1 this discussion up item on the agenda -- by the way I would iscussion up is to discuss the existing are discharged out of the pipe at that we expect to discharge over and about a year and a half to two general area. area which we have numbered We have been operating the advent of somewhat has been

To determine the we engaged Geocon to do a series field observations and very, very one. Those calculations have been one. and improve to do a series of the stability

answer them as soon as I am finished.

for that one.
backup on that one.
of number 3 is open t of number 3 is open to salter enument. We want to contain to go into a seemy area below the dam. We want to contain to go into a seemy area below give behind number 3 which is a new give. I can evaluate a seem are a dam number 5 which is a new give. I can evaluate a seem give a way from these it can proceed into a seem are a given get away from these it can proceed into a dam of the can give a way from the give a sea full use and great a seem and a which one is number 7 and we have another one behind number dyke that we are calling 3c. On this drawing, this is dyke that bointed out on this drawing here, number 1 dyke, that I pointed out on this drawing here, number 1, number 2, number 3, and number 4. There is number 1, our tailings pond for dykes and gives us valley which formerly used to be a tailing disposar wave We are proposing to block that off by a backup dyke which would allow us to again collect material and pump it back into the tailings dam. syste. that I pointed out on this density here, number a number 2, number 3, and number 4. There is number 1 discharges into baker Creek — we do not need any backup of that one. Number 2 is the diphrays — we don't need a very backup or that one. Number 3 lasts — the downtane side — charge a side of the charge a side — charge a side of the charge a side of drawing which I will again place on the Now these backup dykes are shown here, this these backup dykes is to allow us to con-that gets through our dykes and is disfurther settlement and oxidat opportunity to pump it back i dykes which are described on to place into the dyking board. Now System

so of dykes and be our drawings by myself or by we are looking a basically now amber 2, the e construction methods are d questions about those can vandschneider. One of the o the dykes that I have des

require a very large amount of additional work to raise their elevations to give us additional pond area to store our tailings in.

distinct construction methods to ensure the stability and competency of that dyes, we won't go into the details of that. We are also, as we raise this pond, and the proposal is to discharge at this location and use the area, more one less the area just back of whate my fingers are in the red east side. This dyke is rather unique in that it will be built over existing tailings and we will have to use some pond between a high rock bank on the wost island and them immediately across to the east side. This dyke is rather unique in of the Mane were addings continement consists of the followin the five year tailings continement on a intermediate day construction works. Re-construction of an intermediate day construction works. Re-construction of an intermediate day construction works. tailings confinement which, by the way, is about the plan for of the mine's ore reserves at the moment, and the reserves at the moment. contain the tailings for five years. We are going them up rather high and go from elevation 60-50 the tailings come up rock bank on the west side to a what at the moment, and the plan for we call five year bank on Small

there, and sealing any small seepage channels that there are up in the higher devorations. This will give us five years of retention of tailings in this area. It will allow use to discharge the officumes from the tailings to the water into discharge the officumes from the tailings to the water into a large holding area that will give us a late of these to reduce the cymatic and the other material that can be dropped out into a large satisfing storage area, without a flooring the out into a large satisfing storage area, without a flooring the Really, from here, across to here, and across there, building dykes at this location, putting an intermediate dyke reported to be of some concern. looking at is a new dyking system to here, and across there, building

As I indicated, we are going to put which is this one; we are going to raise and dyke number 4 is one that the mining has used in the recent past as a garbage known around the Property as the garbage

with an upstream seal -- a very conventional system. satisfied secteohalcally for confinement of the tallings. Disc number 5, which is this one will be a bound new object the spoing to be constructed of a rockell section with an upstream seal on it — it is a very conventional system. Number 7 is also going to be a rockell startly section.

of 1.5. All the rest of them give us the factors of safety normal safety factor of 1.5. not number 2 but number 3 and are in existence now. We are the mine a rather significant improvement in the safety feetbre on the dyking systems, over the duking are in addition. while the new system that designing these dykes with a These ones will be improved, number 1 will be improved to will be built to the same over the dyking systems that we are proposing we feel are usual in this field

develop another pond of the same type as I just described limits as far as expansion is concerned. After we reach the elevation of 60-80, which is the mine elevation we are system that I have go just described has definite

factor in the design of tallings pends in not a significan particular subject was covered by the Laval report quite thoroughly and I think that if ambadiant report quite We went through the in this area, and I think that if anybody wants to I to go into it a little further. normal calculations fortunately run-off in

a tendency for some of the allnes that they will be coming out to run once that, we will stop them by but putting little addia dyes in these. They are very conventional construction and very low -- they will be about 10 feet high at the maximus. basically there because there is a low, a little through the hills and we want to make sure that number 4 c and 4 b. They are what I classify as dykes. There will never be any water in these. Now on this drawing we have some very short They're

required to confine five years of tailings (which)

is something like 500 acre feet. The area that I have described has a volume of 712 acre feet giving us a 40% safety factor in volume.

sified as tailings in this area. Our seals are relatively thin in section so we need an impervious or more impervious of two decant locations, the water that is excess in the area will be allowed to decent off both sides of the yellow on the yellow or the yellow of the yell material than tailings to give us the seal we are looking The system will be designed, at least we are talking about designing the system. this is the only thing that hasn't been figured, we are talking about designing a system LANGE, THE CONTROL OF THE PROPERTY OF THE PROP the system

tallings have us mifficient freeboard to allow us to accretization and a state of this winter. DNo number 5 will also be raised darsa for this winter. DNo number 5 we will not have any overtopping of dykes in that dispertion this year. The resulted of the program will be completed in 1975. That is the end of my part of he was the completed in 1975. That is the end of my part of he was the completed in 1975. its stability, a borm on number 1 and the borm on number 3 will be constructed this year. The seal on dyke number 3 will be improved this fall and dyke number 4 will be The program that I have outlined is scheduled to completed in the following fashion. The berns on dyke number 1 -- the dyke number 1 remains h 1 -- the dyke number 1 requires berms to improve

Thank-you.

hearing for questions from the floor. I would just to say to you would you mind going to the podium, your name and who you represent. Thank-you. I would now like to open up would just like

Wy name is derry Sutten and I am the legal and for the Indian Brotherhood of the Northmest Peritorisar representing the Indian Brotherhood and the Yellocknife Indian Band: I wish first, before I give my questions raise a fee comments about the procedures of this singuistrates.

given us his mase and subsequently resigned, the composit has sition of this Board has not been made known to the publication of the procedure of allowing the annual. the procedure of allowing the applicant to raise a them as they present the opportunity all, that their case is highly inadequate. of the participants to cross although Mr. Campbell has

Inland Waters Act, the Board has the powers given to a comwish to point Board summon the following officials. to testify before the Board. the Board to summon witnesses, the Board that under the Northern

mation of value Waters Act, and whether an inspector would have been appointed under Section 29 of the Northern Affairs to give evidence as to whether an inspector has Firstly, an to this inquiry. Secondly, whether official from the Department of Indian area is a water quality management

official of the what studies, what monitoring of the water on the fish. the Environment

connection with the health of humans in the Yellowknire vicinity and Detah and that this would include questions relating to the quality of the water and the effects of done, or are being done, what an official of the Department of Health give information as to what studies have been

That Dr. O'Donoghus, the clearance of the Reservations called to the reflected min defense of the Reservations of the Reservat their bodies and persons who have

Now, I would suggest that this is quite proper of the role of the Board as defined by the Northern Waters Art and northealarly the definition of waste Worthern Inland Waters Act.

that might be asked of these officials are Now I have some questions for the officials from Giant Mines. I would submit though that any questions

doing since 1948. the right to use water in the manner that they have been My first question would be under what authority giant Mine first established and what authority gave

I feel that this inquiry should have more details of results of that monitoring, the levels of arean's detected, and where the monitoring has taken place and over what period time. Reference was made to monitoring that has happened --

Reference was also made to contact with different government agencies -- I would ask that the officials from Giant tell us who these agencies were and over what period time that contact has been made and what has

happens to the gas that is removed from the roaster also ask that further description be made of

Wy mext question would be how long has seepage been a problem and have they ever been ordered by any government agency to control that seepage, it so when were they so ordered and in what manner were they ordered to control it.

Now it is q time being, depending on the answers that are given in the same is quite well known that there was a spill lings area in March of this year, I would ask occasions in the past spills have occurred area. And I would leave it at that for the there was a spill

Mr. where the Chairman by mans is haved Sanaba hands advisor for clant. I am wondering it we could by virus of the advancion sanaba of the quantions added the sanaba and hepspally ont time all, as we can make arm that we have all of the questions, and it seems by virtue of the attention nature of one of the halp we would find a

little time to give extensive consideration and replica. There are some of them that we just don't have the answer Would that be satisfactory to the Board?

to give us the questions in writing,

In the meantime we could go on with other questions

We are prepared to listen to them, and could I ask Mr. Sutton a question? Would you be agreeable to presenting your questions in writing to the Board? raised by Mr. Sutton but we do not want to adjourn the Board now because there may be some people here that would quite agreeable to allowing Giant time to get answers to these questions. We would also like some time ourselves, as a Board, to discuss some of the points that have been points are valid points raised by various people. In opinion of the Board we feel that we should, that we like to ask questions or make their presentations to-day. have to adjourn and set another time for it, because some of the questions cannot be answered to-day and some of the session is going to last more than one day. We may It is obvious from the proceedings so

itton: Would that mean that the answers would be given a public hearing?

regasse: That's right. It is the opinion of the Board was that you would have to hold further hearings on this matter, because a lot of these questions can't be answered

the answers were not in writing.

public hearing. Provided that the answers were given before a

Yes. Oh they would be given before a public hearing,

presentations now or in the prefer to wait until later. have a ask number of people here who have present papers at this hearing in the light of what has been said Mr. Wynne. to-day. indicated they

are prepared to wait to hear the outcome to the guestions that have been raised. Speaking for the City of Yellowknife, I

Bergasse: also indicated that they wish to make a statement rgasse: Mr. Sutton you have indicated that you wanted to present a brief and I think Mr. Charlo and Mr. Liske have

Sutton: I am just checking that now.

much water and using so much areasic and poisoning the water. If this thing is going to go or for peture what will happen in the future. Been right now the fish are spoiled. The water is spoiled. It is getting dangerous to each of this mome water from the shore here set if it is keep on like this, he says, I wouldn't want to see this get core because it worse even tight how, so I wouldn't want to see now the water is kind of spoiled as you see along the shore and the way we drink the water. It is not like in the olde days anymore. I think it is because both mine are using so of the Yellowknife Band here. He would like to say a few words on this water hearing. As he was saying that right This is Joe Charlo

dangerous and now it is sort of dangerous. days before even the town was the old town, hunt around there, make a little camp fire and we could drink the clear water there. are asking for more water so that they can put more poiso in it so I would like to see if this could be stopped. The reason I say this is because it is kind of dangerous it is dangerous to the life of the people. In the old even scared to drink water. It is not like in the old days anymore. Now even the fish don't taste like before the white man was here, and now I understand that the both mines the mine came to Yellowknife. Now ever since the two mines came to Yellowknife, they are probably using too much poison, this is way the water is spoiling and now we are poison, this is way the water. It is not like in the old days The water wasn't along the shore put more poison we used to This is why I

since would mines pay the water for us. Now, he says, ever since the mine came here we never did ask for any help from them so this is what, the only thing I hope you have inthat these two mines, reasonable many money, probably millions haife they probably both made soo many money, probably millions and settler are right at our and millions of dollars and yet they are right at our don't ask them for any halp at all. And now don't have they are using have in mind. And to-day this is why we are talking about our water. On behalf of my people, this is what I had in mind the past days. This is why I brought this up here. we get a water delivery we pay for it-why should for our water? Actually, he says, I would sure 1 for us. Now, he says a pipeline over into Yellowknife River. says, for the past year here, not too long ago now he says, we have to turn around and if knife River. Now,

In a system, the present does not pay for his water, than he deem to get any water, so what thoy to ig just byyear har - Sysan that house, and if they don't pay the probability late wart glow his any water, so what they might so probably late wart with his dampierous if that water have his dampierous if that water it really specifying, and right now, he may, nesse of it water that really specifying, and right now, he may, ness of the solution of the pastion, then the old specifically any may be a set that the control of the water has the water.

meant was, not everybody in rich no if they don't pay that water, then boy won't get any value of the lake water. I don't have well as a value of the that water and now he says, I don't have to see this if the people said get any tendals in the flutter. So this is why I sak if we could get any help ten both halfer. at least for water delivery, safe water to the native

And also, he says, that in the past we know a few people that died with arsenic poisoning from the mine. If this thing deem't change, it might keep on like this so this is why we really want to mention all these things

So, he says, I wish both mines could think about tweeter, and our land, and our fash, they are all appoints here with the aresade. So, he says, I would mare like to see if this could change so the poisson wouldn'te be a strong or arrenic wouldn't be so strong. So this is all have to say. be so

argasse: I would like to correct an oversight on my part, it was pointed out to me that (I neglected) to point out the composition of the Board. I did it yesterday.

ate Mr. Murray Aperisan of the poverment of Canada are Mr. Murray Aperisan of the Department of Canada Affairs and Northern Development, who will be the Chairman by appointment. By dust assumed his poet and his official appointment has not come forth yet. Ar. C.D. Porbas. Project populations that not come forth yet. Ar. C.D. Porbas. Project Demonst. Applications of Pauli Roberts. Replaced Office.

Medical Services Rounds. Ar. Freet. Assist Constantible and Walfare. Mr. S. N. Mumplyn, Senior Education. Among Advisor. Mr. S. N. Mumplyn, Senior Education. Among Advisor. Mr. S. N. Mumplyn, Senior Education. Among Advisor. Mr. S. N. Mumplyn, Senior Education. Murray of Tanadasy. District Manager. Mariety of Tanadasy. District Manager. Mariety of Projection Service, Special of the Implement. Military of Projection Service, Special of the Implement. The Water Board is constituted under the Act and it includes at least one nominee of each of the departments of the government of Canada that in the opinion of the the Northwest Territories. r in Council are most directly concerned with men-of the water resources of the Northwest Territories least 3 persons named by the Commissoner-in-Council The composition of the Board

These are the Government of Canada apointees. The ones that are here are Mr. Murray Morison On my extreme left, Mr. Sandy Lewis immediately next to me, and Dr. tygar representing Dr. Frost from the Department of National

the Northwest Territories. and myself, J.A. Bergasse, I am with the I.R. Trimble Council Member for Mackenzie North, The mambers appointed by the Commissioner-in-Council of the Northwest Tertitories are Mr. A.K. Campbell, who has already increduced himself and excused himself. Mr.

stages since the first public hearing. plicant would be given an opportunity to present his case or brief before we allowed the public to cross examine him. This was set by the Board right from the initial The procedure that we have adopted which was set by Board initially for public hearings was that the ap-

public hearing for a heref to be presented after the hearing and it is for this reason and in the light of the questions and points that have been raised to date that the Board has decided that it will adjourn the public hearing and a new date will be amounted in the very near feture. In addition the Act provides for briefs to be writing 10 days prior to the public hearing and been the case in the past. Briefs have either

I may question him just on one point, for chariferation and may I ask Mr. chairman. if Mr. Tobis could translate my question for the benefit of the quite large number of mataw people present who are not wery familiar with the impliant laminups. Mr. Tobis is over these with the chief. question for the previous speaker and the Department of Indian Affairs and Northern Development representative if nne: Mr. Chairman, do you wish me to go up to the podium. It is very brief. My name is colin Mynne and I om appearing on behalf of the City of Kellowknife and really I have a.

Bergasse: Mr. Tobie, would you mind translating for him?

water to be delivered to the native people in lot 500 and believe it is DIAND who pick me. rang. The question is in regard to the water supplied to the matter goods at laving in Allocating in the area knows at let 900. We have, the City has afted that notices he positioned around the bay by diant Vallocating bits that the city and possibly other agencies concerned to the effect that the water is not it to be used for consumption and the face that the cater water is positively and for possible dispersion. Because of this we have recognized the face that the water is positively. to pay or reimburse DIAND if this is a fact do the native people in lot 500 then a water delivery service supplied as part of a by the City to, now this is the question - I up the am concerned and the City is the question - I bill to pay for the delivery.

Mr.

Mr. Tobie translated Mr. Wynne's

Chairman, I wonder if perhaps the Chief he could perhaps

that question.

should probably be put to the Department Affairs and not to the Department and not to the Department of the State of the S

Bergasse: There a representative here present

Mr. Wynne: Very well so we have to wait until after the Thank-you.

Board can answer that. don't think the Northwest Territories Water

can't find any brief be sent in 10 days prior.

you just give us a minute.

It's in 15(2) Mr. Chairman.

the Board, if no briefs are received ten days pripublic hearing that it does not need to hold the hearing. But we do in the Northwest Territories. within ten days prior to the date of the proposed hearing that any person intends to appear and make representations anyway with or without. But this does not allow The Board has decided that they would hold proted that, we have not interpreted that in connection with the matter. not apply where the applicant is, after publication of a notice of a public hearing in connection with that matter is a matter of interpretation. interpretation we have received is that this does allow they do not. Well it's not a point The Mr. Sutton that I want it does state in 15(2) But this section does

are no further questions I propose to, we between ourselves here and we have, the decist that we will adjourn this public hearing e will be announced in the very near future

Mr.

B. Braden

вуе Brown

Yellowknife, Vice-Chairman, NWI Government of the TWN Water TWH NWT Water

Yellowknife,

Yellowknife,

A/Secretary, TWN Board

LAME IWN

Yellowknife, NWT Yellowknife, NWT Yellowknife, NWI Yellowknife Mines

Toronto, Ontario

Angus Lennie

Charles McGee A.D. MacPhail R. MacKillop

Patrick

P. Puxley

S.W. Spelle:

Bill Mercredi T. Mayo M. Sekyea Rollefson

TWN Tree of Peace, Yellowknife Yellowknife, NWLE. Frontier College, Environment Canada, Yellowknife Yellowknife, NWT TWE Inuvik, NWI

I.B. Yellowknife, NWT of the NWT, Snowdrift

Yellowknife, NWT DIAND, Yellowknife, NWI CBC News, Yellowknife, NWI Cominco, Yellowknife, NWT Yellowknife, NWI

NWLFS, Dept of Education, Yellowknife, Inuvik, NWI

Detah, NWT DIAND, Yellowknife, NWT

LAM

I.B. of the NWT. DIAND, Yellowknife, NWT CWS, Yellowknife, LAM

TWN IMM

DIAND, Yellowknife, NWT

H. Vandschneider H.E.

J. Baily Fred Betsina

Yellowknife, NWT Giant Yellowknife Toronto, Ontario Mines

Giant Yellowknife Toronto, Ontario Mines

Yellowknife, Native Press, Yellowknife NWT TWN TWN IWN

Yellowknife, NWI TWN

NWLFS, EPS, Yellowknife, Yellowknife, NWI TWM

Native Press, Yellowknife, of the North, Yellowknife TWN

TWN

TWE TWE TWN

IMM

I.B. LAM Cominco, Yellowknife, Environment Canada, Yellowknife MWT, Yellowknife

R. Wallace Mel Watkin

A.C. Wynne

DOE, EPS, Yellowknife, NWT I.B. of the NWT, Yellowknife, NWT

City of Yellowknife, NWT