H. MADSEN, MANAGER

Yellowknife, N.M.T.

N.M.T. 25 Nov 51. Dear Wr. Kay, lack , I arrived safely enough ofter an unwritted trip. The air was perfectly smooth the whole way, for which I was very thankful. Dr. Halt was on the plane with us from Edmonton. He had another pressing piece of work awaiting him at Kimberley after he finished up here, but did not wont to leave here until he was certain that me had all the information me needed a had collected our samples. So for that wason me changed the itinerary somewhat a collected all the con samples this week. Con's safety man, Don Spain, has been collecting their samples vgularly, , he drove us around to lis(cour) sampling locations, , we took samples together. There is not much snow here, & in our spinion there is no point in taking any snow sample on land, as it would be impossible to avid contaminating it with the earth or Degetation below it. Consequently, me have taken snow samples only over the ice, at points where we have also taken water samples. The snow has varied in depth at

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these places from 2 to 4 inches.

Perhaps you remember that when me were discussing the Iscation of occupling points for water sangeles, lack suggested that we take samples at the set various water intake system intakes if stave lines were being used to pipe the votes. as they are using iron pipe, there should be no difference between the water at the intake & the water coming wet of the taps. There we propose not taking water samples over the intakes. This means eliminating # o 13, 16 ( + 21), 0 24. If you do not agree with this proposal, we can get them this week.

The airport is wrongly located on the map; it should be moved north about on inch. first to a point just below the lake marked 624. as the support drews its water from the town, sample # 14 is eliminated.

However, as quite a number of people use

this lake water (Long Lake, it is) as dinking voter in oummertime, we took a sample

o called it # 15.

The Bevin is are away just now, but some other family is operating the farm for there

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They said they draw their water from town, a wee the well only to water the eattle. We therefore tooks a sample of this & ealled it # 19. Number 19 was also taken as it is a regular sampling point for Con.

Con regularly takes a vegetation sample at Sand Lake men the skating rink. This is only about 2 or 3 blocks our # 68. as this is only about 2 or 3 blocks from # 69's location, we deleted the latter.

The shore opposite snocker Island is the water witake point for land, a vecording to the water witake point for land taken snow sample #45 books we should have taken snow sample #71. However, here a deleted vegetation sample #71. However, the snow was very body drifted in the same, the snow was very body drifted in the same, so that it would not be representative of the so that it would not be representative of the arsune fall there. So we deleted #45 a took arsune fall there. So we deleted #45 a took

# 71. C'est correct?

Of the light vigitations that Con take vigilarly, thee locations are additional to those me had platted, There along with the me had platted, There along with the numbers assigned to them, are as follows:

4.

# Ingraham Hotel Co. Ltd.

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- # 80. Rat Lake nutlet creek, where it enters
  yellowhrife Bay. This is at the bottom
  right hand corner of the square shaded area
  on the map.
- If 81. South end of Kam Lake Road. The road shown on the west side of Kam Lake actually goes on to the end of the lake, instead of stopping as shown on the map. I marked this number in the bottom left corner of the map.
- # 82 Cernetery Rood. as I mentioned the airport is incorrectly shown, or is the rood.

  Instead of turning sharply left to the airport as shown, the rood actually awings last slowly 9 then swings left again, parallel to the portage until it gets to the "real" airport on long lake (624'). The cemetery Road brouches east off the main road at approximately the point where the map shows it turning left to the airport.

  Confusing, don't you think?

Yellowknife, N.M.T. although the snow is less than six inches deep, we find that a 2 popular foot sample gives us boto of water. We servinged 20 igallon bottles from the Con cook horese, a the milted snow from 2 square feet marly fills them. One sample yesterday that was 4 miches deep meltre down to more than a gallora. We cannot discurd any of the water because some of the arsinic may be may be in solution, while some of it may be in the sediment, of which there is a good deal. we took three extra water samples. # 83. Son derground at con. 250 foot level. Supage diretly below Rat Lake. # 84. Sump on underground at con. Sumpon 500 foot level. all waste waters in the mine are pumped to this sump, while pumps then to surface. # 85. andergound at con. 2350 foot level. Highly soline water from a diamond drill hole. This is openiting out under tenibre pressure. One of the mine officials thought it would be a good idea for us to take another sample of this value water a analyse it

completely. I still have it here, but intend puringit down the drain before I leave, unless you think I should send it in. It would probably make a good gangle. Dr. Henderson is very busy with the school children during the day & in the tolving with lospital records in the evening. I have helped him on two evenings, as it is a slow tiving jot for one person to do. He is wondering whether he can look forward (?) to receiving the wine bottle before he baves, so that he can part them directly under the care of the pearon who will be responsible for collecting a Samples over to Steve's office. He is arranging shipping them. to get packing material & to have his stenos pack everything. This will save us considerale

Smee we arrived, the high boobeen about 3 or below, the low around 30. I notice you have been booking in 40 above or so. By the time we get back you will probably have read up all the warm weather. Inendutally, we

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thinks me shall be able to leave here on monday Die 3. I should Thew like to take a fen dags stat. leave in Winnipeg before returning to the daily chore. In any east, I shall sand you a wire when we know on departure date definitely.

Sincerely fack W.