

HIGH ZINC IN ZONE 2/NORTH FORK FALL-WINTER '83MONDAY OCT 31/83

AM: TOOK MONTHLY WATER SAMPLES

TUESDAY NOV 1/83

PM: FOUND OUT FROM JERRY THAT WE HAD ELEVATED ZINC RESULTS AT STNS. X2, X10 AND X14. SAMPLED X2, X10 & X22 THIS PM TO CONFIRM MONTHLY RESULTS.

X2 1.04

X22 39.1 (SAMPLED AT JERRY'S REQUEST)

X10 0.41

INFORMED DICK HOGAN OF THE SITUATION & THAT I WOULD BE SAMPLING ZONE 2 TOMORROW AM. ALSO INFORMED HIM THAT THERE WOULD BE DEFINITE PROBLEMS AHEAD

WEDNESDAY NOV 2/83

A.M. : SAMPLED ZONE 2 POND AND GOT SAMPLE TO JERRY - ALSO TOOK SAMPLES AT X10 & X14

ZONE 2 5.51

X14 0.48

X10 0.55

PM : WENT DOWN TO ZONE 2 TO LOCATE SEEPAGE AREA FOUND IT ON THE EAST SIDE OF THE ZONE. GOT SAMPLES FROM SEEPAGE AS WELL AS JUST ABOVE POINT WHERE THE SEEPAGE ENTERED NORTH FORK.

ZONE 2 SEEPAGE: pH 7.2 ; Zn 8.75 mg/l

NORTH FORK UPSTREAM FROM SEEPAGE pH 7.1 ;

Zn 0.05 mg/l

2.

PM: SEEPAGE FLOWING BETWEEN <sup>???</sup> 125-150 gpm.

REPORTED THESE RESULTS TO DICK HOGAN. WE THEN CONSULTED WITH M. NICHOLSON:

- ESTIMATED 200 TONNES LIME REQUIRED
- INFORMED MIKE OF THE NEED TO PHONE WATER RESOURCES.

PHONED BUD McALPINE AND TOLD HIM ABOUT OUR PROBLEM & WHAT WE WERE DOING. HE WILL PHONE TOMORROW AM.

THURSDAY, NOV 3/83

AM: McALPINE PHONED - PLEASED WITH MEASURES WE WERE TAKING BUT WANTED US TO DUMP ON NORTH FORK SIDE OF THE POND REQUESTED DAILY WATER SAMPLING.

I SENT OUT SEMI-WEEKLY TELEX TO NICKEL INFORMING HIM OF OUR PROBLEM & THAT WE WERE TAKING MEASURES TO REDUCE THE ZINC CONCENTRATION AT X2.

P.M. WENT WITH DICK McDONALD, DICK HOGAN & DON FRASER TO ZONE 2. DART TRUCK WAS DUMPING FROM DUMP SIDE OF POND. DON FRASER SAYS HE'LL ATTEMPT TO RUN A LINE TO THE NORTH FORK SIDE OF THE POND.

SAMPLED ZONE 2 <sup>SEEPAGE</sup> 8.58 Zn & pH OF 7.3

ZONE 2 POND 4.88 Zn & pH OF 7.5

PHONED Mc ALPINE & REPORTED RESULTS

3.

HE SEEMS PLEASED BUT ALSO WANTS US TO SAMPLE DAILY AT X2.

FRIDAY, NOV. 4/83

AM: TOOK WATER SAMPLES AT X2, ZONE 2 POND & ZONE 2 SEEPAGE. MINE HAS STARTED NEW ROAD TO BRING A PIPE LINE OVER TO THE NORTH FORK SIDE OF THE ZONE 2 POND.

ANALYZED WATER SAMPLES MYSELF

	imm. Ex. Zn	pH
ZONE 2	4.29	7.7
ZONE 2 SEEPAGE	8.28	7.5
X2.	1.13	7.1

PM: PHONED M'ALPINE & WEBSTER WITH RESULTS. MR. WEBSTER WOULD LIKE TO BE CONTACTED AT HOME SHOULD VALUES SHARPLY RISE. IF NOT PHONE ON MONDAY ANYWAY.

SATURDAY, NOV. 5/83

AM: SAMPLED X2, ZONE 2 AND ZONE 2 SEEPAGE

SUNDAY, NOV 6/83

AM: SAMPLED X2, ZONE 2 AND ZONE 2 SEEPAGE

MONDAY, NOV 7/83

AM: TOOK WEEKLY WATER SAMPLES PLUS DAILIES.  
MIKE NICHOLSON PHONED - TOLD HIM VALUES DID NOT CHANGE MUCH OVER THE WEEKEND.

PM: TODAY'S SAMPLES SHOW ZONE 2 POND AND SEEPAGE ARE STILL ON THE RISE.

X2 IS BASICALLY THE SAME.

THE LINE TO THE NORTH FORK SIDE OF ZONE 2 IS ALL READY. DUMPING IS TO START THIS AFTERNOON BUT THEY'RE HAVING PROBLEMS WITH THE DISCHARGE VALVE ON THE DART. SPOKE WITH D. MAC DONALD - THEY HAULED APPROX. 4 LOADS OVER THE WEEKEND.

PHONED G. WEBSTER

PHONED BUD MACALPINE BUT WAS UNABLE TO REACH HIM. LEFT THIS AFTERNOON'S RESULTS WITH THE SECRETARY.

TUESDAY, NOV 8/83

AM: PICKED UP DAILY SAMPLES. WAS INFORMED BY HOWIE GATES THAT THEY HAVE BEEN DUMPING WITH RECENTLY INSTALLED LINE (4 LOADS YESTERDAY). WILL CONTINUE DUMPING TODAY BUT <sup>CIRC.</sup> A PUMP HAS NOT BEEN INSTALLED.

PM: PHONED WATER RESOURCES. SPOKE WITH MARY

5.

JACK. SHE SEEMS PLEASED WITH OUR EFFORTS.  
PUMP STILL NOT INSTALLED.

WEDNESDAY, NOV. 9/83

AM: TOOK DAILY SAMPLES. PUMP NOT IN YET BUT  
THEY ARE DUMPING. 4 LOADS WENT UP  
YESTERDAY.

ASSAY RESULTS SHOW THAT THINGS ARE STILL  
PRETTY MUCH THE SAME.

SPOKE WITH MIKE. HE SAYS THAT THEY'RE  
LOOKING INTO PUMPING OUT ZONE 2 —  
PROBABLY TO X22 THEN ON TO THE TAILING  
POND. HE TELLS ME GARY WEBSTER IS INTER-  
ESTED IN THE SEASONAL CHANGE OF THE WATER  
COMING INTO ZONE 2.

PM: PHONED WEBSTER & MARY JACK WITH DATA.  
GARY SAYS HE'LL BE UP ON THE 24TH OR 25TH  
OF THIS MONTH TO HAVE A LOOK AT THINGS.  
MARY SAYS WATER RESOURCES PEOPLE WILL BE  
UP NEXT WEEK TO SAMPLE. THEY ARE ALSO CON-  
CERNED THAT THE PUMP IS NOT YET OPERATING  
IF ITS NOT OPERATING BY TOMORROW THEY'LL  
CONTACT MIKE NICHOLSON.

THURSDAY, NOV. 10/83

AM: TOOK DAILY WATER SAMPLES. PUMP IS STILL

6.

NOT OPERATING - ELECTRICIANS ARE WORKING ON IT THOUGH.

THEY'RE STILL DUMPING LIME.

PM: PUMP NOT OPERATING. SPOKE WITH MAC ALPINE - CONTINUE SAMPLING OVER WEEKEND.

DICKIE SAYS THEY'LL BE DUMPING LIME ON SATURDAY ONLY THIS WEEKEND (NOTHING TOMORROW) THERE IS STILL NO CHANGE IN OUR DAILY SAMPLES

FRIDAY, NOV. 11/83

AM: SAMPLED ZONE 2, ZONE 2 SEEPAGE AND X2

SATURDAY, NOV. 12/83

AM: SAMPLED ZONE 2, ZONE 2 SEEPAGE AND X2

SUNDAY, NOV. 13/83

AM: SAMPLED ZONE 2, ZONE 2 SEEPAGE AND X2.

THE X2 SAMPLE HAS DROPPED FROM 1.07 mg/l Zn YESTERDAY TO 0.88 mg/l Zn TODAY BUT THE pH HAS ONLY RISEN FROM 6.7 TO 7.0. MEANWHILE THE ZONE 2 SEEPAGE REMAINS VIRTUALLY UNCHANGED AT 8.81 mg/l Zn AT A pH OF 7.

MONDAY, NOV. 14/83

AM: TOOK DAILY SAMPLES. PUMP BEGAN OPERATING (FINALLY ON SUNDAY). THEY'RE STILL DUMPING REGULARLY BUT NOW ITS ON AN 8 HR. SHIFT.

PM: ~~Zn~~ STATION X2 IS STILL DROPPING ( $0.75 \text{ mg/l Zn}$ ) BUT THERE'S NO CHANGE IN pH OR IN THE ZONE 2 SEEPAGE SAMPLE.

TUESDAY, NOV 15/83

AM: NEWT IS BACK. BUD McALPINE AND AL FOSTER FROM WATER RESOURCES ARE ON SITE. NEWT IS TALKING ABOUT PUTTING IN A SETTLING POND IN THE ZONE 2 SEEPAGE

TUESDAY, NOV. 22/83

PM: SETTLING POND IS NOW COMPLETE. TREATMENT (LIME) OF ZONE 2 POND IS STILL GOING ON. 4 TRUCK LOADS AT 3 TONS LIME PER LOAD IS GOING INTO THE POND.

THE POND REACHED THE LOWEST ZINC CONCENTRATION TO DATE  $1.70 \text{ mg/l Zn}$  AT A pH OF 8.1. ZINC IN THE SEEPAGE IS ALSO DOWN BUT THE CREEK (X2) IS AT  $1.06 \text{ mg/l Zn}$ .

CYPRUS ANVIL MINING CORP

Don Fraser  
Don please note Newt's comments  
on spillway and need to mix soda ash.  
Please keep me informed of your progress  
Thks Mike

To M. Nicholson  
From N. Cornish  
Date September 12, 1983  
Subject Zone Two Zinc Content

The Zone II pit zinc content is very variable at present. The pit has added a good quantity of soda ash to the shore of this pit, they promised to push this soda ash into the water and to circulate with a pump to aid in dissolving it. When this soda ash has been dissolved and the pond allowed to mix a bit (four or five days) the pond will be sampled to determine the pH and the zinc concentration.


The pond is still about three meters below the decant invert and will require probably 25,000 yds.<sup>3</sup> of waste to be placed below the decant invert level before a decant will occur. I would estimate that 100,000 yds.<sup>3</sup> of waste can be dumped over the lower dump before a decant will occur. This should take several weeks depending on the distribution between the lower and upper dumps.

A spillway should not be required for this decant as long as we don't displace this water too quickly after a decant flow starts. I estimate that 8,000 yds.<sup>3</sup> per day dumped over the lower dump will result in 250 gallons per minute of decant. This would be approximately the same volume that was pumped over this decant when pit II was active and should not create an erosion problem.

The lower dump should be constructed in such a manner that a small pond remains at the decant, but the dump divides the pond into two sections before a decant occurs. This sequence of dumping will reduce the suspended solids to a minimum in this decant. The decant flow might have to be controlled to something less than 250 g.p.m. to provide an acceptable suspended solids.

There is a possibility that a decant may continue after the existing pond is filled with waste rock and this decant may contain high zinc. This problem could be resolved in one of two ways, 1) drilling a well in the backfill of this number II pit and pumping the required volume into Zone III pit, or 2) injecting a soda ash solution into this flooded pit to neutralize the zinc and let the decant flow to the north fork of Rose Creek.

We shall just have to wait and see what happens after the pond is filled with waste. It is very important that the soda ash on the beach of this pond is dissolved as soon as possible.

  
N. Cornish

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N.G. Cornish

FROM

K. Mac Neil

SUBJECT

Analysis of Water in Zone 2 Pond

REFERENCE

DATE

Sept 22/03

MESSAGE

The following are results of water analysis conducted on 2 water samples taken from Zone 2 Pond:

SAMPLE LOCATION	pH	DIS. Zn(mg/l)	IMM. EX. Zn(mg/l)	EX
Bottom of Access Road	8.5	0.43	1.17	1.16
West side of Pond	8.5	0.51	1.21	1.20

All of the soda ash which was placed at the bottom of the access road has gone into solution.

Kim

Refer  
Problems were  
Encountered

REPLY FROM

DATE

Required approximately

200 Tonnes Lime or Soda Ash

Price

	Metri Tonne	Weight	Total
Soda Ash	89.75 CON	372.00	461.75
Lime	73.50 CON	144.00	217.50

Delivery

Soda Ash	1 month	Green River, Wyoming
Lime	Tues or Wed	Toppley, B.C.

Inventory

Lime	± 70 Tonne	of access is available
Soda	± 80 Tonne	" " " "

6700 gallons old hood ± 4 Tonne

Lime approx 2.5 times as effective as soda ash;  
However, soda ash goes into solution extremely well  
— much better than lime.

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OTo Kim MacNeil  
~~MIKE NICHOLSON~~

FROM

KIM MAC NEIL  
ENV. TECHNICIAN

SUBJECT

ZINC LEVELS IN THE ZONE 2 POND

REFERENCE

DATE

NOV. 7/83

MESSAGE

ATTACHED FIND THE ZINC AND pH DATA SINCE NOV. 1/83.

LIME ADDITION TO ZONE 2 DID NOT TAKE PLACE YESTERDAY AND THE CIRCULATING PUMP WAS NOT OPERATING. THIS MAY BE A POSSIBLE EXPLANATION FOR TODAY'S ELEVATED READINGS. ONE GOOD SIGN HOWEVER IS THAT OUR pH'S ARE STARTING TO CLIMB.

BEGINNING TODAY LIME WILL BE ADDED ON THE WEST SIDE OF THE ZONE 2 POND AS REQUESTED BY THE WATER BOARD.

Kim

P.S. DON FRASER TELLS ME THEY'LL HAVE A NEW PUMP OPERATING BY TOMORROW.

Thanks Kim - please keep me up to date on a daily basis

Mike

PS can you give me a sketch showing sample locations

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D. GREGOIRE

FROM

K. MAC NEIL  
ENV. TECHNICIAN

SUBJECT		REFERENCE	DATE
MESSAGE ZINC/pH LEVELS IN ZONE 2		IMMEDIATE EX-	NOV 9/83
DATE	LOCATION	TRACTABLE ZINC	EXTRACTABLE ZINC (24 HOURS)
		mg/l	mg/l
NOV 8/83	ZONE 2 POND	7.6	4.94
"	ZONE 2 SEEPAGE	7.7	9.28
"	X2 (ROSE CREEK)	7.4	1.12
NOV 9/83	ZONE 2 POND	7.6	5.80
	ZONE 2 SEEPAGE	7.7	9.27
	X2	7.2	1.03

Our licence limit for zinc is 0.50 mg/l. If there are any problems or questions please let me know.

Kim

REPLY FROM

DATE

SEND TO

D. GREGOIRE

FROM

K. MAC NEIL  
ENV. TECH.

SUBJECT

ZINC LEVELS IN ZONE 2

REFERENCE

DATE

MESSAGE

NOV. 15/83

ATTACHED PLEASE FIND THE LATEST WATER  
DATA.

STATIONS X10 AND X14 ARE DOWNSTREAM OF THE  
TAILINGS PONDS IN ROSE CREEK.

Kim

REPLY FROM

DATE

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D. GREGOIRE

FROM

K. MAC NEIL

SUBJECT

ELEVATED ZINC CONCENTRATIONS IN ZONE 2

REFERENCE

DATE

NOV 16/83

MESSAGE

NOV. 16/83

1mm. EXT. Zn

NOV. 15/83

EXT. Zn

pH

Zone 2 Pond

4.59

5.10

7.5

Zone 2 Seepage

7.20

8.26

7.6

X2

0.80

0.81

7.2

Construction of a settling pond in the area of the Zone 2 seepage should begin tomorrow (Nov 17). The project should take approximately 2 days.

Kim

REPLY FROM

DATE

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MIKE NICHOLSON

FROM

KIM MAC NEIL

SUBJECT

DIAGRAM OF SAMPLING LOCATIONS - AS REQUESTED

DATE

NOV 17/83

MESSAGE

Attached, please find a copy of a 1981 aerial survey photo of the minesite.

The section in Zone 2 shaded yellow is the approximate area now water covered - the rest having been filled with waste. The 3 sampling locations are denoted by ⊗.

Under construction today is a settling pond (150' x 200') located in the middle of the Zone 2 seepage.

Kim

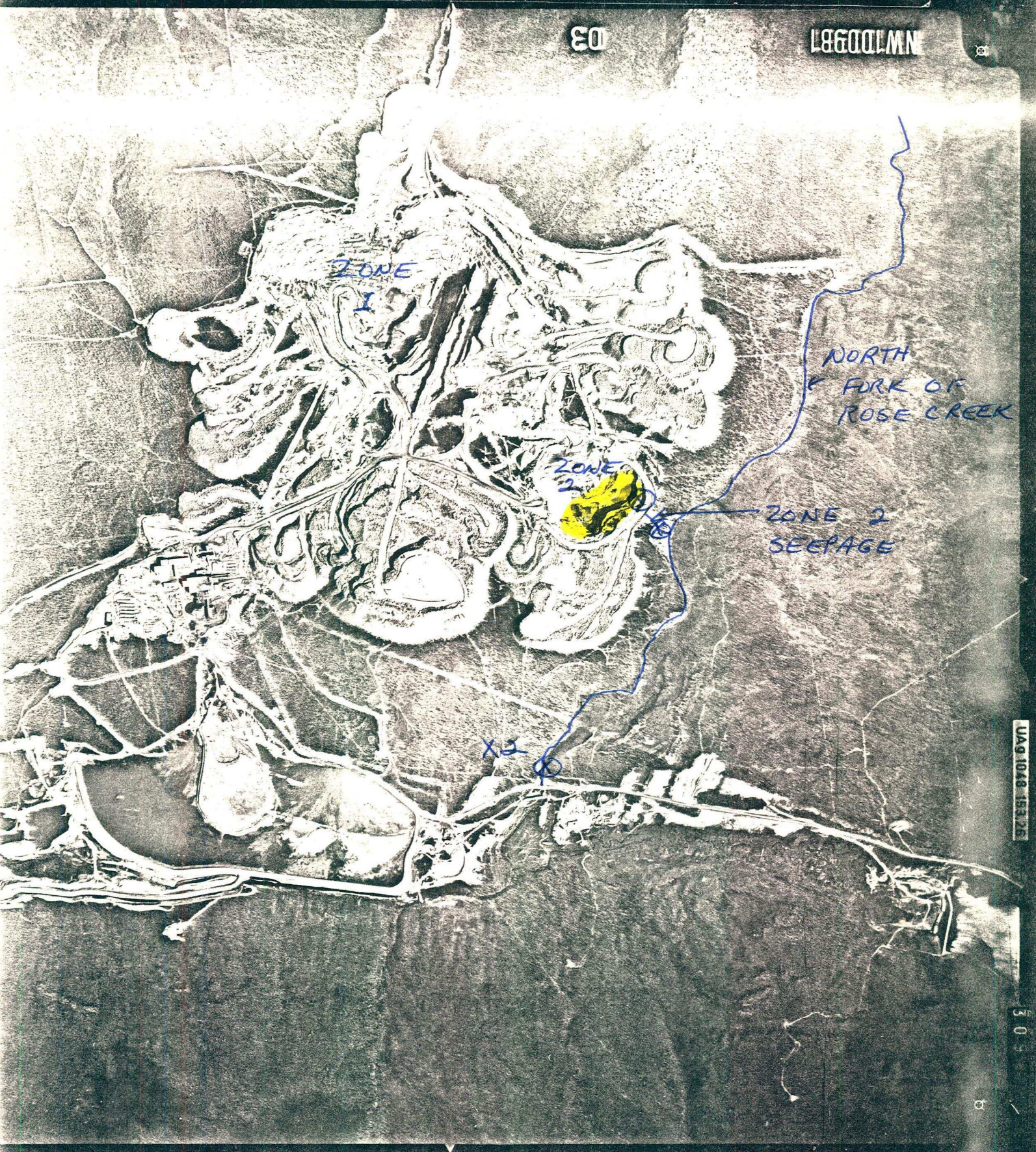
REPLY FROM

DATE

FILE

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D. GREGOIRE

FROM

KIM MAC NEIL

SUBJECT

ELEVATED ZINC CONCENTRATIONS IN ZONE 2

REFERENCE

DATE

MESSAGE

NOV 17/83

1mm EXT. Zn

NOV 16/83

EXT. Zn

NOV 17/83

pH

Zone 2 Pond

4.10

5.62

7.8

Zone 2 Seepage

7.26

8.26

7.7

X2

0.58

0.81

7.1

Kim

P.S. Today's readings are the lowest since our  
problem began

REPLY FROM

DATE

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D. GREGOIRE

FROM

K. MAC NEIL

SUBJECT

ELEVATED ZINC CONCENTRATIONS IN ZONE 2

REFERENCE

DATE

NOV. 21/83

MESSAGE

	IMM. EX. Zn	EXT. Zn	pH
<u>NOV 18/83</u>			
Zone 2 Pond	2.89	3.08	7.5
Zone 2 Seepage	5.60	5.64	7.5
X2	0.65	0.65	7.2
<u>NOV 19/83</u>			
Zone 2 Pond	2.50		7.4
Zone 2 Seepage	5.16		7.5
X2	0.99		7.1
<u>NOV 20/83</u>			
Zone 2 Pond	3.41		7.6
Zone 2 Seepage	4.94		7.6
X2	0.82		7.2
<u>NOV 21/83</u>			
Zone 2 Pond	3.32		7.4
Zone 2 Seepage	5.26		7.6
X2	0.92		6.9

REPLY FROM

DATE

Kim

PRIORITY

URGENT!  SOON AS POSSIBLE  NO REPLY NEEDED 

DATE NOV. 23/83

FROM K. MAC NEIL

DEPT. ENVIRONMENTAL CONTROL

SUBJECT ELEVATED ZINC 181047

CONCENTRATIONS IN ZONE

2.

SEND TO D. GREGOIRE

## MESSAGE

Attached please find all water analysis for the  
Zone 2 area since

Lime addition is still continuing at the  
average rate of 4 loads per day. One load is  
approximately 6700 gallons of slurry containing  
14 tonnes lime

Kin

REPLY

4S500E

← SPEEDIMEMO →

REPLY FROM

REPLY DATE

MOORE SPEEDILY - 3 - MOORE CLEANPRINT PATENTED 1963-1966

LIFT THIS SHEET TO REMOVE  
(RETAIN FOR YOUR FOLLOW-UP)COPY  
TO

# CYPRUS ANVIL MINING CORPORATION LTD.

Sample Assay Sheet

Production Date— NOV 21/83

Sample Origin— DAILY WATERS

Sample Number	Zn	Zn	PH	Cu					
NOV 17 ZONE 2	4.10	3.56	7.8						
ZONE 2 SEEP	7.26	6.09	7.7						
X2	0.58	0.82	7.1						
NOV 18 ZONE 2	2.89	3.08	7.5						
ZONE 2 SEEP	5.60	5.64	7.5						
X2	0.65	0.65	7.2						
NOV 19 ZONE 2	2.51	2.59	7.4						
ZONE 2 SEEP	5.16	5.35	7.5						
X2	0.99	1.08	7.1						
NOV 20 ZONE 2	3.41	3.57	7.6						
ZONE 2 SEEP	4.94	5.26	7.6						
X2	0.82	0.88	7.2						
NOV 21 ZONE 2	3.32	3.47	7.4						
ZONE 2 SEEP	5.26	5.30	7.6						
X2	0.92	0.96	6.9						
NOV 22 ZONE 2	1.70	1.71	8.1						
ZONE 2 SEEP	4.14	5.12	7.6						
X2	1.08	0.98	6.9						

Assayer—



PRIORITY

URGENT!  SOON AS POSSIBLE  NO REPLY NEEDED

DATE NOV. 24/83

FROM K. MAC NEIL

DEPT. ENVIRONMENTAL CONTROL

SUBJECT ELEVATED ZINC 181046

SEND TO D. GREGOIRE

CONCENTRATIONS IN  
ZONE 2

MESSAGE	Imm. EXT. Zn	EXT. Zn	pH
NOV. 23/83			
Zone 2 Pond	2.51		7.7
Zone 2 Seepage	4.71		7.5
X2	1.19		6.9
NOV. 24/83			
Zone 2 Pond	3.15		7.5
Zone 2 Seepage	4.63		7.4
X2	1.29		6.9

REPLY

Kim

4S500E ← SPEEDIMEMO → REPLY FROM REPLY DATE

MOORE SPEEDIPLY - 3 - MOORE CLEANPRINT PATENTED 1963-1966

LIFT THIS SHEET TO REMOVE  
(RETAIN FOR YOUR FOLLOW-UP)

COPY  
TO

PRIORITY

URGENT!  SOON AS POSSIBLE  NO REPLY NEEDED

DATE NOV. 25/83

FROM K. MAC NEIL

DEPT. ENVIRONMENTAL CONTROL

SUBJECT ELEVATED ZINC 181045  
LEVELS IN ZONE 2

SEND TO D. GREGOIRE

MESSAGE

	IMMEDIATE EXT. Zn	EXTRACTABLE Zn (24 HRS)	pH
NOV. 23/83			
Zone 2 Pond		2.76	
Zone 2 Seepage		4.94	
X2		1.27	
NOV. 24/83			
Zone 2 Pond		3.26	
Zone 2 Seepage		4.96	
X2		1.37	

REPLY

NOV. 25/83			
Zone 2 Pond	4.23		7.4
Zone 2 Seepage	5.08		7.5
X2	1.30		6.9

4S500E

← SPEEDIMEMO →

REPLY FROM

*Kim*

REPLY DATE

MOORE SPEEDIPLY - 3 - MOORE CLEANPRINT PATENTED 1963-1966

LIFT THIS SHEET TO REMOVE  
(RETAIN FOR YOUR FOLLOW-UP)

COPY  
TO

PRIORITY

URGENT! SOON AS POSSIBLE NO REPLY NEEDED 

DATE NOV. 30/83

FROM K. MAC NEIL

DEPT. ENV. CONTROL

SEND TO D. GREGOIRE

SUBJECT

ELEVATED ZINC  
CONCENTRATIONS IN  
ZONE 2

181044

## MESSAGE

Attached please find all water analysis data for the Zone 2 area since Nov. 23/83.

The volume of water in the Zone 2 seepage has greatly decreased in the past week. Today the flow is approximately 30 i.g.p.m. while originally the flow was about 70-80 i.g.p.m.

Kim

REPLY

4S500E

← SPEEDIMEMO →

REPLY FROM

REPLY DATE

MOORE SPEEDILY - 3 - MOORE CLEANPRINT PATENTED 1963-1966

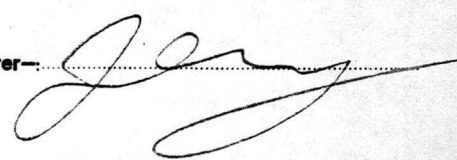
LIFT THIS SHEET TO REMOVE  
(RETAIN FOR YOUR FOLLOW-UP)COPY  
TO

Sample Assay Sheet

Production Date: NOV 29/83

Sample Origin: DAILY WATERS

Sample Number	IMP EXT	EXT	Pb	Cu						
NOV 23 ZONE 2	2.51	2.15	7.7							
ZONE 2 SEEP	4.71	4.94	7.5							
X2	1.19	1.27	6.9							
NOV 24 ZONE 2	3.15	3.26	7.5							
ZONE 2 SEEP	4.63	4.96	7.4							
X2	1.29	1.37	6.9							
NOV 25 ZONE 2	4.23	3.96	7.4							
ZONE 2 SEEP	5.08	4.85	7.5							
X2	1.30	1.37	6.9							
NOV 26 ZONE 2	1.01	1.05	8.5							
ZONE 2 SEEP	5.07	5.14	7.4							
X2	1.20	1.21	6.8							
NOV 27 ZONE 2	1.54	1.54	8.2							
ZONE 2 SEEP	5.18	5.38	7.5							
X2	1.00	1.00	6.7							
NOV 28 ZONE 2	4.94	5.17	7.3							
ZONE 2 SEEP	5.12	5.44	7.6							
X2	0.92	0.95	6.9							
NOV 29 ZONE 2	0.69	0.79	9.0							
ZONE 2 SEEP	5.72	5.79	7.6							
X2	0.80	0.85	6.9							
NOV 30 ZONE 2	1.00		8.6							
ZONE 2 SEEP	5.73		7.2							
X2	0.75		7.2							

Assayer: 

PRIORITY

URGENT!  SOON AS POSSIBLE  NO REPLY NECES'Y

DATE DEC. 1/83

FROM K. MAC NEIL

DEPT. ENV. CONTROL

SUBJECT ELEVATED ZINC 181043  
LEVELS IN ZONE 2

SEND TO D. GREGOIRE

MESSAGE

	IMMED. EXT. Zn (mg/l)	EXT. Zn (mg/l)	pH
NOV 30/83			
Zone 2 Pond		1.03	
Zone 2 Seepage		5.76	
X2		0.82	
DEC 1/83			
Zone 2 Pond	0.75		8.9
Zone 2 Seepage	5.05		7.3
X2	0.72		7.4

REPLY

Kim

4S500E

← SPEEDIMEMO →

REPLY FROM

REPLY DATE

MOORE SPEEDIPLY - 3 - MOORE CLEANPRINT PATENTED 1963-1966

LIFT THIS SHEET TO REMOVE  
(RETAIN FOR YOUR FOLLOW-UP)

COPY  
TO

PRIORITY

URGENT!  SOON AS POSSIBLE  NO REPLY NEEDED

DATE DEC. 5/83

FROM K. MAC NEIL

DEPT. ENV. CONTROL

SUBJECT ELEVATED ZINC 181041

SEND TO D. GREGOIRE

CONCENTRATIONS IN ZONE 2

MESSAGE	IMM EX.	EXT.	
DEC 3/83	Zn	DEC 2/83	pH
Zone 2 Pond	0.08	0.29	9.2
Zone 2 Seepage	5.15	5.40	7.3
X2	0.64	0.73	7.3
DEC 4/83			
Zone 2 Pond	0.07		8.8
Zone 2 Seepage	5.13		7.3
X2	0.54		7.3

REPLY

DEC 5/83			
Zone 2 Pond	0.30		8.9
Zone 2 Seepage	5.08		7.7
X2	0.48		7.6

The pumping of Zone 2 Pond began Dec 3rd A.M. In 2 days pumping the pond has dropped 8 inches.

4S500E ← SPEEDIMEMO → REPLY FROM REPLY DATE

MOORE SPEEDIPLY - 3 - MOORE CLEANPRINT PATENTED 1963-1966

LIFT THIS SHEET TO REMOVE (RETAIN FOR YOUR FOLLOW-UP)

COPY TO