

Certificate of Analysis

TO Curragh Resources

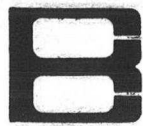
REPORT NO. 47-7935

DATE Oct 7, 1987

I hereby certify that the following are the results of analyses made by us upon the herein described water samples

Table with columns: Time, MARKED, Cu (ppb), Zn (ppb), SO4 (ppm), pH, sp cond., temp, Name, flow L/s method. Contains 22 rows of analysis data.

Handwritten signature: J. R.



BONDAR-CLEGG & COMPANY LTD.

136B INDUSTRIAL RD, WHITEHORSE, YUKON Y1A 2V1

PHONE: (403) 667-6523

Certificate of Analysis

TO Curragh Resources

REPORT NO. 47-7935 Pg. 2

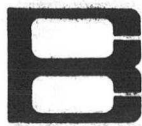
DATE Oct 7, 1987

I hereby certify that the following are the results of analyses made by us upon the herein described water samples

MARKED	ppb	ppb	ppm	pH units	µmhos/cm	°C	Name	L/s	method
	Cu	Zn	SO ₄	pH	spcond	temp			
0930 23 Sep 26/87	84	3920	180	7.43	563	2.2	End of BL ditch	9.2	meter
1030 24 Sep 26/87	9	285	14	7.80	41	2.0	Faro diversion at lower weir	81.4	meter
1200 25 Sep 26/87	L 2	L 2	8	7.82	27.1	2.8	Faro Creek		meter
1210 26 Sep 26/87	4	24	9	7.75	51.8	2.8	Ditch to Faro Creek		meter
1300 27 Sep 26/87	3	48	5	7.63	31.9	3.2	Seep from Faro diversion through road	< 0.1	est
1530 28 Sep 26/87	21	1910	45	6.82	175.5	2.5	Sump in swamp	-	
1700 29 Sep 26/87	167	4850	45	6.94	123.3	2.3	Inflow to swamp pump pond		meter
1710 30 Sep 26/87	144	4400	48	7.13	-	2.1	Outflow from pump pond to Faro Creek	9.1	bucket
1700 31 Sep 26/87	9300	93500	860	3.06	1910	5.5	Seep to Zone 2	0.15	est
1100 A1 Sep 27/87	3	9630	481	6.64	1516	6.8	Pump pond in Zone 1		
1110 A3 Sep 27/87	3	6300	130	7.70	923	6.8	seep to Zone 1		
1120 A4 Sep 27/87	L 2	30000	223	7.48	944	5.2	Seep to Zone 1		
1130 A6 Sep 27/87	3	115000	679	7.17	1610	5.4	Seep to Zone 1		
1140 A7 Sep 27/87	9	133000	939	7.28	2100	5.8	Pond in Zone 1		
1200 A8 Sep 27/87	5	38000	536	7.37	1826	6.2	Pond by Zone 1 BL ditch		
1210 A9 Sep 27/87	3	1040	62	8.27	466	7.2	Zone 1 BL ditch	0.6	bucket
1220 A10 Sep 27/87	3	10800	338	7.92	910	-	Seep to Zone 1		
1330 A14 Sep 27/87	L 2	61	13	8.44	211	5.6	Seep to Zone 1 - top of BL ditch	0.4	bucket
1340 A15 Sep 27/87	2	1100	84	8.26	608	3.9	Seep to Zone 1		
1350 A16 Sep 27/87	3	2200	97	8.32	468	-	Seep to Zone 1		

BONDAR-CLEGG & COMPANY LTD.

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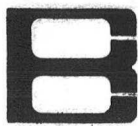
REPORT NO. 47-7935 Pg. 3

DATE Oct 7, 1987

I hereby certify that the following are the results of analyses made by us upon the herein described water samples

Table with columns: MARKED, Cu (ppb), Zn (ppb), SO4 (ppm), pH, sp cond, temp, Name, L/s Flow, method. Rows include samples A18 through W5 with various chemical and physical data.

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BONDAR-CLEGG & COMPANY LTD.

136B INDUSTRIAL RD, WHITEHORSE, YUKON Y1A 2V1

PHONE: (403) 667-6523

Certificate of Analysis

TO Curragh Resources

REPORT NO. 47-7938

DATE Oct 7, 1987

I hereby certify that the following are the results of analyses made by us upon the herein described water samples

MARKED	ppb	ppb	ppm							L/s Flow meth.
	Cu	Zn	SO4	pH	sp Cond	temp	Name			
1600 NF1 Sep 29/87	2	57	4	6.65	136	1.7	North Fork upstream drain			
1230 NF2 Sep 30/87	2	42	8	7.65	-	0.9	North Fork down stream drain			
0800 GA1 Sep 30/87	2	2180	83	6.92	632	3.3	Grum adit water			
0830 GA2 Sep 30/87	L 2	1710	100	7.29	548	0.2	Grum adit pond overflow			
1300 W6 Sep 29/87	4	325	76	7.58	455	1.3	Seep from west dumps			
1600 W8 Sep 29/87	3	100	20	7.40	203	2.7	Seep from west dumps			
1700 W9 Sep 29/87	2	28	5	7.72	112	2.4	Stream below west dumps			20 est
1730 W10 Sep 29/87	L 2	4	4	7.54	88.7	1.7	Stream above west dumps			20 est
1200 W11 Sep 30/87	4	665	335	7.55	651	0.9	Seep from East dumps			

BONDAR-CLEGG & COMPANY LTD.

NORTHERN METALIC SALES

20/11/81

"SUPPLIES FOR ALL OF INDUSTRY"

EDMONTON
468-2000

CALGARY
279-7083

John's Water
Sample pH

1 7.79

2 7.22

GRANDE PRAIRIE
539-9555

WHITEHORSE
667-4255

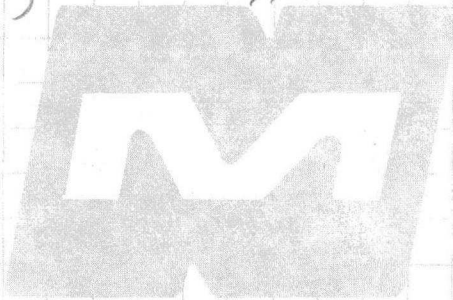
3 2.83

4 7.40

5 7.12

EDSON
723-5501

FT. NELSON
774-6101



HINTON
865-3931

CHETWYND
788-9162

ROCKY MOUNTAIN HOUSE
845-5002

DAWSON CREEK
782-5595

FORT ST. JOHN
785-6655

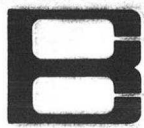
call Dan + check their results
then write this up as a memo.

	CM	split samples		
	Eutech	BC Res	Wat Res	
X4	.05	<.001	.04	} WAD .03
X5	.04	<.001	.03	
X9				
X11	.18	.429	<.003	
X12	<.01	.003	<.03	
X13	.10	.202		
X14				

Wat Res Bioassays

X5 84.1%, 65.1%

X13 Non toxic



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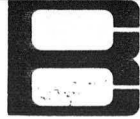
TO Curragh Resources
Joan Eamer

REPORT NO. 47-9665
DATE Nov 25, 1987

I hereby certify that the following are the results of analyses made by us upon the herein described water samples

MARKED	ppb	ppb	ppm						
	Cu	Zn	SO ₄	<i>flow</i>	<i>Zn load kg/s</i>				
① GA 11/20/87	L 2	2250	93						
② SEEP 6 11/20/87	5	970	130	3.5	3.4				
③ SEEP 32 11/20/87	4600	64500	490	1.5	96.8				
④ SEEP to A7 11/20/87	10	75200	452						
⑤ X 23 11/20/87	7	22000	1335						

BONDAR-CLEGG & COMPANY LTD.



Certificate of Analysis

TO Curragh Resources

REPORT NO. 47-9665

Joan Eamer

DATE Nov 25, 1987

I hereby certify that the following are the results of analyses made by us upon the herein described water samples

MARKED	ppb	ppb	ppm						
<i>Van 87 database</i>	Cu	Zn	SO ₄						
GA 11/20/87	L 2	2250	93						
SEEP 6 11/20/87	5	970	130						
SEEP 32 11/20/87	4600	64500	490						
SEEP to A7									
11/20/87	10	75200	452						
FARD. → X 23 11/20/87	7	22000	1335						

not entered in either database.

J.R.



Certificate of Analysis

TO Curragh Resources

REPORT NO. 47-4320

DATE July 3, 1987

I hereby certify that the following are the results of analyses made by us upon the herein described wastewater samples

MARKED	ppb	ppb	ppb	ppb	ppm	ppm	ppm	suspended solids		
	Cu	Pb	Zn	Mn	Na	SO ₄				
X 4 26/6/87	14	260	152	1010	92.0	358	8			
X 5 26/6/87	9	90	135	1120	88.0	419	L 1			
X 9 26/6/87	91	165	48	13	93.0	125	190000			
X11 26/6/87	14	L 5	7	4680	79.0	651	5			
X12 26/6/87	8	L 5	8	1060	47.0	470	L 1			
X13 26/6/87	3	L 5	6	3820	69.0	637	2			
X22 26/6/87	5	23	26500	1710	13.4	325	57			
X23 26/6/87	8	10	32400	10700	33.5	1400	2			
DOAL LAKE 22/6	2	7	7	5	1.0	2				
DL 1 22/6	12	62	79	8	8.1	26				
DW	825	8	41	16	0.9					

John R.

CURRAGH RESOURCES CORPORATION

Sample Assay Sheet

Production Date:

July 9/87

Sample Origin: Tailings Samples

		%	%		g/toms				
Sample Number		Pb	Zn	Fe	Ag	Cu			
1	A1	.44	.21		13				
2	A2	.52	.98		15				
3	A3	1.30	1.34		21				
4	A4	.66	1.22		13				
5	A5	.94	1.56		17				
6	A6	1.95	1.62		17				
7	A7	.90	1.22		17				
8	A8	1.30	1.27		21				
9	B1	.60	.68		17				
10	B2	.73	1.81		9				
11	B3	.55	1.64		13				
12	B4	1.63	.97		13				
13	B5	.74	1.16		17				
14	C1	.69	2.08		13				
15	C2	.62	2.03		13				
16	C3	.41	1.31		8				
17	C4	.67	.19		9				
18	C5	.37	1.85		9				
19	C6	.54	1.21		11				
20	C7	.47	1.12		13				
21									
22									
23									
24									
25									
26									
27									
28									
29									
30									
31									
32									

Juni

CURRAGH RESOURCES CORPORATION

ASSAY WORK SHEET

ASSAYER _____ DATE July 9/27

SAMPLE GROUP NAME Tadings PROD. DATE _____

VEDILIN

SAMPLE #	WEIGHT	Pb	%	Zn	Ag								
A1	1.0001	22.0	.44	10.5	.21	.07	15						
A2	1.0002	25.7	.52	49.4	.98	.08	15						
A3	1.0000	64.2	1.30	67.7	1.34	.11	21						
A4	1.0002	32.8	.66	61.7	1.22	.07	13						
A5	1.0005	46.5	.94	78.9	1.56	.09	17						
A6	0.9999	96.7	1.95	81.6	1.62	.09	17						
A7	1.0001	44.4	.90	61.8	1.22	.09	17						
A8	1.0002	64.6	1.30	64.0	1.27	.11	21						
B1	1.0001	29.8	.60	34.4	.68	.09	17						
B2	0.9998	36.1	.73	91.2	1.81	.05	9						
B3	1.0008	27.4	.55	82.8	1.64	.07	13						
B4	1.0007	80.9	1.63	49.1	.97	.07	13						
B5	1.0008	36.4	.74	48.4	1.16	.09	17						
C1	1.0000	34.0	.69	9.9	2.08	.07	13						
C2	1.0007	30.7	.62	9.7	2.03	.07	13						
C3	1.0005	20.3	.41	66.1	1.31	.04	8						
C4	0.9999	33.0	.67	9.7	.19	.05	9						
C5	0.9998	18.4	.37	93.3	1.85	.05	9						
C6	1.0007	26.7	.54	61.2	1.21	.06	11						
C7	1.0007	23.3	.47	56.4	1.12	.07	13						
MP1a	1.0006	—		—		.35	70						
MP1d	0.2918	64.3	(1.009354)	27.2	(4.0421172)	.11	(9539052)						
CPB-1	0.3001	—		67.0	(.981552)	.93							