

Report No. X086/1

EL 7878
RELINQUISHMENT REPORT
NOVEMBER 1993

Distribution:

Newcrest Mining Limited, Melbourne
Newcrest Mining Limited, Belmont
N.T. Mines Department

(1797.SRS.mjl)

S. Shakesby
Geologist
November 1993

DMS

- 7 NOV 1995

SCANNED

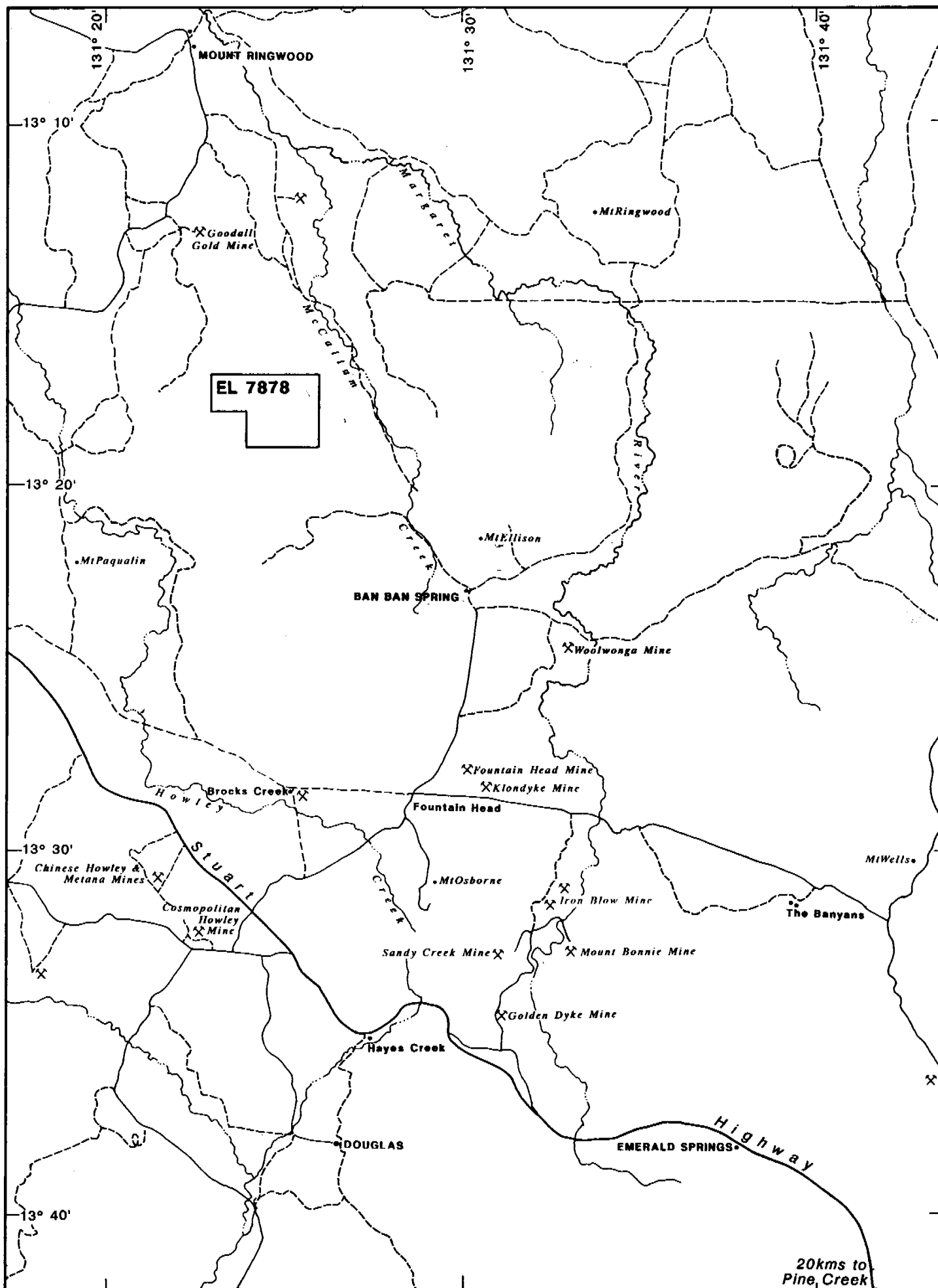
C O N T E N T S

Fig. 1	Location Plan
Appendix I	Stream Sediment Assay & Descriptions
Appendix II	Rock Chip Assays & Descriptions
Appendix III	Drill Core Assays

P L A N S

1.	Sample Location Plan
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1. INTRODUCTION
2. LOCATION AND ACCESS
3. GEOLOGY
4. WORK COMPLETED
5. EXPENDITURE
6. REFERENCES



 Newcrest Mining Limited			Project	EL7878	North	
Compiled	Date	Plan Number	Location & Tenure			
S.Shakesby	16.11.1993					
Drafted	Scale	Figure Number				
K.Morgan	1:250,000	FIGURE 1				

5

1. **INTRODUCTION**

This report is a relinquishment report for EL 7878 and covers the first year of work. Work was centred on Geopeko's Quest 85 prospect. For regional and general information the reader is referred to "Geological Report of the Brocks Creek Region", March 1978 by R. Balde and I.C. Faris. The tenement covers 5 graticular blocks or 16 square kilometres.

2. **LOCATION AND ACCESS**

The tenement is located 35km SE of Adelaide River and 13km NW of Ban Ban Station. Access is via the sealed Stuart Highway and Woolwonga haul roads, then via a dirt road to Ban Ban Station and then via station tracks, the gas pipeline and the Goodall power line. Access between November and April is difficult due to heavy rains.

3. **GEOLOGY**

The rocks within the tenement area are grouped within the Gerowie Tuff and Mt Bonnie Formation. Some Koolpin Formation may be present in the south of the tenement. Dips and strikes are not uniform and it is probable that several major faults cut the stratigraphy in the tenement area. Within the Gerowie Tuff obvious tuffs are not common. The sequence is dominated by siliceous fine grained volcanic? chert and cherty siltstone. Geopeko diamond drill core from the area shows that minor calcareous horizons are present in the sequence and have been variably amphibole and scapolite altered. Sulphides occur almost exclusively as disseminations or clots, veining is rare. Hole No. DDHQ85-S/1 was drilled sub-parallel to bedding.

The Geopeko diamond core is held at their Winnellie core farm.

4. **WORK COMPLETED**

Work completed has included:

Stream sediment sampling of -0.85mm and -5mm size fractions

Rock Chip sampling

Sampling of existing Geopeko diamond drill core - Hole Nos. DDH Q85-S/1, DDH Q85-S/2

No samples produced significant gold values

5. EXPENDITURE

Salaries/Wages	\$878
Assays	\$865
Administration	\$1,331
Vehicles	\$170
	\$3,244

6. REFERENCES

- "Geological Report on the Area of Quest 85" Geopeko, March, 1978, R. Balde and I.C. Faris CR 79/178
- "Geological Report on Quest 85", R. Balde Geopeko March, 1979 CR79/138

APPENDIX I
STREAM SEDIMENTS

(1797.SRS.mjl)

13 '92 14:43

GENALYSIS LABORATORY

20.8/923494

GENALYSIS (13/08/92)

Par

ELEMENTS
UNITS
DETECTION
METHOD

Au
ppb
0.1
CN2/E

SAMPLE NUMBERS

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

9 79792
10 79793

2.6
3.0

11 79794
12 79795
13 79796
14 79797
15 79798

7.6 *
0.6
0.4
0.6
1.2

STD: NGL

1.8

END OF REPORT

EL 7878

STREAM SEDIMENTS - 5mm

Bulk Cyanide LEACH

GENALYSIS

August 92

ANALABS

A Division of Inchcape Inspection and Testing Services Australia Pty. Ltd.

ANALYTICAL DATA

-0.85mm

Analabs

August 92

SAMPLE PREFIX

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21/08/92

NT1781

1 OF 17

SAMPLE
No.

Au

Au(R)

Au(S)

Au

Au(R)

As

As

Bi

Fe

1									
2									
3									
4									
5									
6									
7									
8									
9	79792	0.001	-	-	-	<50	25	<10	1.0
10	79793	0.002	0.002	0.004	-	<50	19	<10	1.8
11	79794	0.002	-	-	-	<50	30	<10	3.0
12	79795	<0.001	-	-	-	<50	22	<10	1.3
13	79796	<0.001	-	-	-	<50	16	<10	0.7
14	79797	<0.001	<0.001	-	-	<50	23	<10	1.0
15	79798	<0.001	-	-	-	<50	17	<10	1.3
16									
17									
18									
19									
20									
21									
22									
23									
24									
25									

Results in ppm unless otherwise specified

T = element present; but concentration too low to measure

X = element concentration is below detection limit

- = element not determined

AUTHORISED
OFFICER

Wayne S. Turner

ANALABS

Analysis and Testing Services Australia Pty. Ltd.

ANALYTICAL DATA

— 0.85mm
ANALABS
AUGUST 92.

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NT1781

9 OF 17

		Cu	Ag	Mo	Pb	Zn	Sn	Sb	Te	W
1			-	-	-	-	-	-	-	-
2			-	-	-	-	-	-	-	-
3			-	-	-	-	-	-	-	-
4			-	-	-	-	-	-	-	-
5			-	-	-	-	-	-	-	-
6			-	-	-	-	-	-	-	-
7			-	-	-	-	-	-	-	-
8			-	-	-	-	-	-	-	-
9	79792	16	-	-	-	-	-	-	-	-
10	79793	20	-	-	-	-	-	-	-	-
11	79794	24	-	-	-	-	-	-	-	-
12	79795	10	-	-	-	-	-	-	-	-
13	79796	9	-	-	-	-	-	-	-	-
14	79797	12	-	-	-	-	-	-	-	-
15	79798	13	-	-	-	-	-	-	-	-
16			-	-	-	-	-	-	-	-
17			-	-	-	-	-	-	-	-
18			-	-	-	-	-	-	-	-
19			-	-	-	-	-	-	-	-
20			-	-	-	-	-	-	-	-
21			-	-	-	-	-	-	-	-
22			-	-	-	-	-	-	-	-
23			-	-	-	-	-	-	-	-
24			-	-	-	-	-	-	-	-
25			-	-	-	-	-	-	-	-

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— = element not determined

AUTHORISED
OFFICER

Wayne S. Turn

QUEST STREAM SEDIMENT DESCRIPTIONS SS23 July 1992 (X086) Simon Shakesby

SAMPLE	EAST	NORTH	ORGANICS	GRAVEL%	MESH	ROCK TYPE
79792	760750	8527070	minor	<10	-5mm -0.85mm	creme yellow clay
79793	760440	8527185	minor	<10	-5mm -0.85mm	Alt 126m yell -gy clay + qtz + sacharoidal sandstone with sulphide casts
79794	760570	8527605	minor	<10	-5mm -0.85mm	Alt 137m yel-gy clay, qtz, sacharoidal sst + sulphide
79795	760890	8528120	minor	<10	-5mm -0.85mm	Alt 85m grey clay
79796	761740	8527840	minor	<10	-5mm -0.85mm	Alt 82m grey clay
79797	761500	8527215	abundant	<10	-5mm -0.85mm	Alt 80m siliceous siltstone chert - pyritic
79798	761200	8526940	minor	<10	-5mm -0.85mm	ailic siltstone + sacharoidal sandstone

Analabs - -0.85mm

Av - method 334

As, Cu, Bi - method 140

Fe - " 140

APPENDIX II

ROCK CHIPS

(1797.SRS.mjl)

QUEST ROCK DESCRIPTIONS SS20

SAMPLE	EAST	NORTH	ROCK TYPE
88268	761150	8527650	sst/sltst with chert boudins mod fract + limonite similar to Cosmo?
88269	762825	8528440	pink siltstone str fractures lots qtz veins 50m from quartz blow
88270	762685	8528515	mine dump, small pit, silst -green, str very breccia little sign of minern
88271	762685	8528515	mine dump, small pit, gossanous qtz material in siltstone
88272	760575	8528550	drill chip, 18-27m, 4m gry-green silstone Fm gy-gn siltst + 30% quartz

Analabs

Au - Method 334

Ag, As, Mo, Bi, Co, Pb, Zn - Method 115

AUTHORISED OFFICER Wayne S. Turner

APPENDIX III

DRILL CORE ASSAYS

ANALABS

A Division of Inchoape Inspection and
Testing Services Australia Pty. Ltd.

Phone (089)472355

Cnr Coonawarra & Mataram St Winnellie NT

Fax (089)843984

ANALYTICAL REPORT No. 110450.21.07366

THIS REPORT MUST BE READ IN CONJUNCTION WITH THE ACCOMPANYING ANALYTICAL DATA

INVOICE TO:

Newcrest Mining Limited
P.O. Box 38355
Winnellie
N.T. 0821

ORDER No.

PROJECT

NT2313

X086

DATE RECEIVED

RESULTS REQUIRED

12/04/93

ASAP

No. OF PAGES
OF RESULTS

DATE
REPORTED

No.
OF COPIES

TOTAL No.
OF SAMPLES

4

20/05/93

1

28

SAMPLE NUMBERS

SAMPLE DESCRIPTION

ELEMENT/METHOD

951- & others

DC Prep : 005,009,019.

Au/336,Cu,Pb,Zn,Ag,Bi,Sb,Mo,As/I

RESULTS

TO

S SHAKESBY
Newcrest Mining Limited
P.O. Box 38355
Winnellie
N.T. 0821

RESULTS

TO

RESULTS

TO

REMARKS

B. Haigh
AUTHORISED OFFICER

ANALABS

A Division of Inchcape Inspection and Testing Services Australia Pty. Ltd.

A.C.N. 004 591 664

ANALYTICAL DATA

SAMPLE PREFIX

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TUBE No.	SAMPLE No.	Cu	Zn	As	Mo	Ag	Sb	Au	Pb
1	S1- 107-108	25.0	99.0	15	2	0.1	<2	0.001	73.0
2	S1- 108-109	29.0	31.5	69	9	0.2	<2	0.004	60.0
3	S1- 142-143	19.5	9.0	18	3	0.1	<2	0.002	34.5
4	S1- 143-144	29.5	63.5	40	8	0.4	<2	0.005	94.0
5	S1- 196-197	48.5	122.5	12	5	0.4	<2	0.001	260.0
6	S1- 208-209	10.0	5.0	9	2	<0.1	<2	0.001	4.5
7	S1- 209-210	3.0	5.0	<5	2	<0.1	<2	<0.001	2.5
8	S1- 46-47	6.5	138.0	<5	3	<0.1	<2	0.001	54.0
9	S1- 47-48	6.0	123.0	6	2	0.1	<2	0.001	44.0
10	S1- 50-51	52.5	1280.0	110	7	0.8	<2	0.002	250.0
11	S1- 51-52	14.0	730.0	22	3	0.2	<2	<0.001	264.0
12	S1- 62-63	23.0	30.5	42	2	0.1	<2	0.002	34.0
13	S1- 63-64	58.0	98.0	31	6	0.3	<2	0.003	60.0
14	S1- 99-100	24.5	52.0	10	3	0.1	<2	0.001	51.0
15	S2- 171-172	21.5	26.0	167	2	<0.1	<2	0.002	25.0
16	S2- 172-173	23.5	32.5	42	1	<0.1	<2	0.001	14.0
17	S2- 218-219	14.5	34.0	20	2	<0.1	<2	0.001	26.0
18	S2- 219-220	50.0	41.0	55	4	0.1	<2	0.007	30.0
19	S2- 220-221	27.0	55.0	105	4	0.2	<2	0.005	65.0
20	S2- 230-231	28.5	580.0	27	5	0.4	<2	0.002	520.0
21	S2- 231-232	21.5	660.0	19	1	0.6	<2	0.001	560.0
22	S2- 232-233	8.5	24.5	8	2	<0.1	<2	<0.001	13.0
23	S2- 233-234	4.0	12.0	10	1	<0.1	<2	<0.001	13.0
24	S2- 247-248	5.5	6.5	268	2	<0.1	<2	0.002	9.0
25	S2- 248-249	112.0	5.5	1140	1	<0.1	<2	0.007	7.0

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TUBE No.	SAMPLE No.		Cu	Zn	As	Mo	Ag	Sb	Au	Pb	
1	S2- 249-250		13.5	9.0	14	2	<0.1	<2	0.001	5.0	
2	S2- 61-62		17.0	29.0	27	4	0.1	<2	<0.001	35.0	
3	S2- 62-63		24.0	60.0	39	2	0.1	<2	0.002	69.0	
4											
5											
6											
7											
8											
9											
10											
11											
12											
13											
14											
15											
16											
17											
18											
19											
20											
21	NOTE: As & Zn values >1000ppm & Pb values >500ppm exceed the										
22	optimum range for method GA115										
23	DETECTION		0.5	0.5	5	1	0.1	2	0.001	0.5	
24	UNITS		PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	
25	METHOD		GA115	GA115	GA115	GA115	GA115	GA115	GG336	GA115	

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AUTHORISED OFFICER

Bernie Haigh

Drill Holes
DQH Q85 s/s
s/2

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ANALYTICAL DATA

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TUBE No.	SAMPLE No.	Bi	Au (R)						
1	S1- 107-108	<1	-						
2	S1- 108-109	<1	-						
3	S1- 142-143	<1	-						
4	S1- 143-144	1	0.006						
5	S1- 196-197	<1	-						
6	S1- 208-209	<1	-						
7	S1- 209-210	<1	-						
8	S1- 46-47	<1	-						
9	S1- 47-48	<1	-						
10	S1- 50-51	1	-						
11	S1- 51-52	<1	-						
12	S1- 62-63	<1	-						
13	S1- 63-64	1	-						
14	S1- 99-100	<1	-						
15	S2- 171-172	<1	-						
16	S2- 172-173	<1	-						
17	S2- 218-219	<1	-						
18	S2- 219-220	<1	0.007						
19	S2- 220-221	1	0.006						
20	S2- 230-231	<1	-						
21	S2- 231-232	1	-						
22	S2- 232-233	<1	-						
23	S2- 233-234	<1	-						
24	S2- 247-248	<1	-						
25	S2- 248-249	1	0.007						

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TUBE No.	SAMPLE No.	Bi	Au(R)						
1	S2- 249-250	<1	-						
2	S2- 61-62	<1	-						
3	S2- 62-63	<1	0.001						
4									
5									
6									
7									
8									
9									
10									
11									
12									
13									
14									
15									
16									
17									
18									
19									
20									
21	NOTE: As & Zn values >1000ppm & Pb values >500ppm exceed the								
22	optimum range for method GA115								
23	DETECTION	1	0.001						
24	UNITS	PPM	PPM						
25	METHOD	GA115	GG334						

Results in ppm unless otherwise specified

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AUTHORISED OFFICER Bernie Haigh

