

## **Existing Mining Permits MP41808 and MP60541**

# **Crown Minerals Act 1991**

Section 36

## **Minerals Mining Permit 41808**

I, SUSAN CATHERINE BAAS, National Manager Petroleum and Minerals, Energy and Resource Markets, acting pursuant to section 36 of the Crown Minerals Act 1991 and acting pursuant to delegated authority under section 41 of the State Sector Act 1988, grant to

OCEANA GOLD (NEW ZEALAND) LIMITED (Permit Operator)

an extension of the land area of the permit.

Schedule 2 of the permit is replaced with Schedule 2 attached to this Certificate.

This mining permit will remain a Tier 1 permit.

This extension of the land area is granted subject to the Crown Minerals Act 1991 and all regulations made under that Act, and the conditions of the permit.

DATED this 9th day of October 2020



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**SUSAN CATHERINE BAAS**

## Schedule 2

### The Land to Which the Permit Relates

**Land Area:** 1572.59 hectares

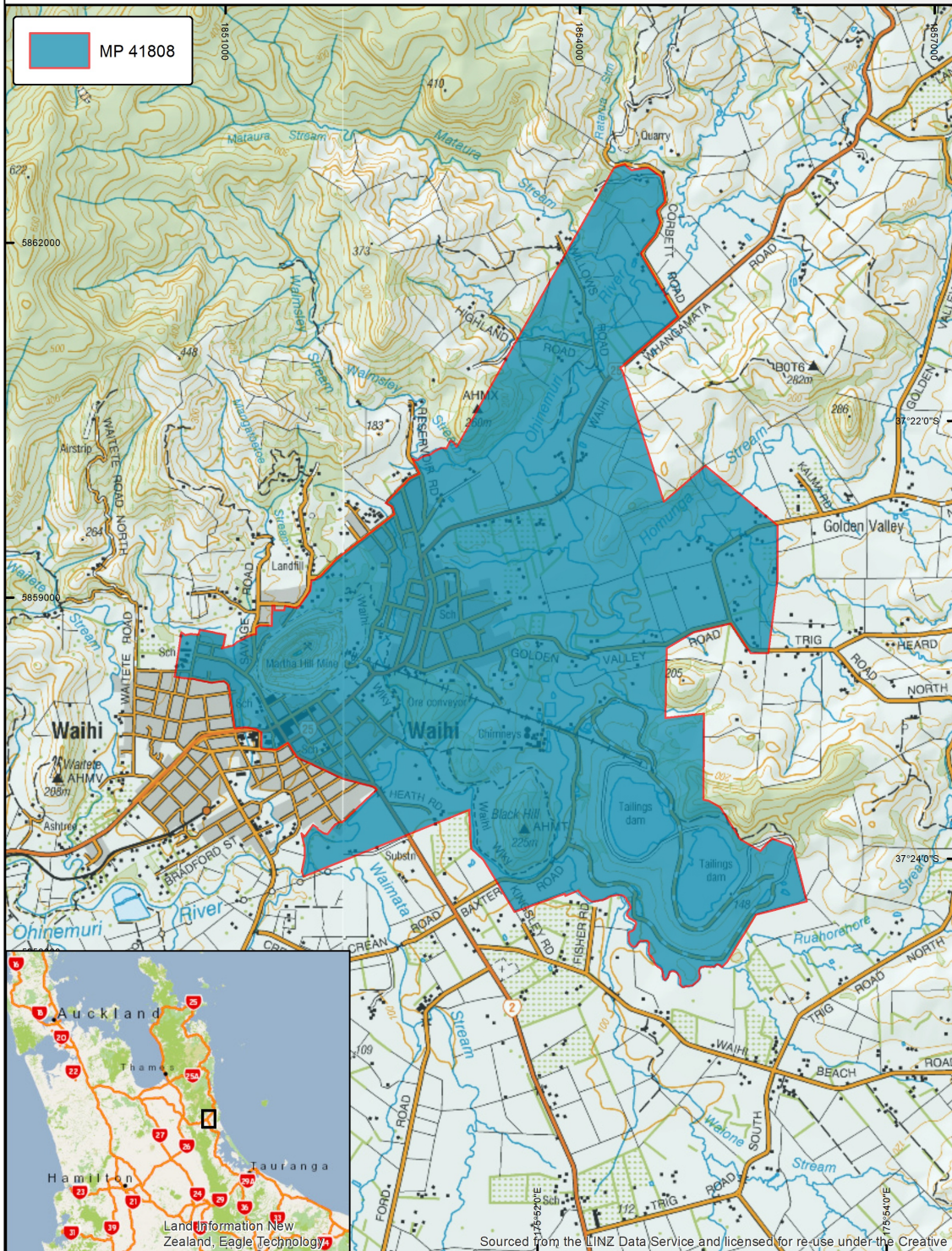
**Regional Council:** Waikato Region

**Territorial Authority:** Hauraki District

#### Description of Land Area:

All that area of land as shown in the attached map and more particularly identified in the spatial database held by the chief executive.





Date: 20/12/2019	Projection: NZTM Datum: NZGD2000	1:40,000	0 1 2 km	Area = 1572.59 ha Hauraki District
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# **Crown Minerals Act 1991**

Section 36

## **Minerals Mining Permit 41808**

I, ILANA ROBYN MILLER, National Manager Minerals, Energy and Resource Markets, acting pursuant to section 36 of the Crown Minerals Act 1991 and acting pursuant to delegated authority under section 41 of the State Sector Act 1988, grant to

OCEANA GOLD (NEW ZEALAND) LIMITED (Permit Operator)

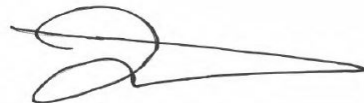
an extension of the land area of the permit.

All schedules of the permit are replaced with the schedules attached to this Certificate.

This mining permit will remain a Tier 1 permit.

This extension of the land area is granted subject to the Crown Minerals Act 1991 and all regulations made under that Act, and the conditions of the permit.

DATED this 17th day of July 2017



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**ILANA ROBYN MILLER**

# **Schedule 1**

## **General Conditions**

### **RIGHTS GRANTED BY THIS PERMIT**

- 1 The permit holder has the right to prospect for the specified minerals, in the permit area.
- 2 The permit holder has the right to explore for and mine the specified Crown-owned minerals in the permit area.

### **GOOD INDUSTRY PRACTICE**

- 3 The permit holder must make all reasonable efforts to mine the land to which the permit relates in a proactive and efficient manner in accordance with this permit and good industry practice.

### **COMPLIANCE AND CONSENTS**

- 4 In carrying out activities under this permit, the permit holder must:
  - (a) comply with the Crown Minerals Act 1991 (Act) and all other relevant legislative requirements;
  - (b) obtain any consents and approvals required under the Resource Management Act 1991, the Exclusive Economic Zone and Continental Shelf (Environmental Effects) Act 2012 and any other applicable Acts; and
  - (c) in accordance with section 33A of the Act, obtain confirmation from the chief executive that WorkSafe has given its approval or consent before carrying out an activity under the permit that requires the approval or consent of WorkSafe (in respect of the requirements of the Health and Safety at Work Act 2015 or regulations made under that Act).

### **WORK PROGRAMME CONDITIONS**

- 5 Where the permit holder is required to commit to work pursuant to the permit, the permit holder must satisfy the chief executive that the permit holder can fulfil that commitment.

### **RELINQUISHMENT OBLIGATIONS**

- 6 In addition to any other relinquishment requirement imposed in accordance with the Act, the permit holder must (where required) relinquish an area of the permit determined in accordance with the Act and the Minerals Programme if an extension of duration is granted.
- 7 Where the permit holder is required to relinquish part of the permit area, the permit holder must submit to the chief executive a map of the proposed relinquishment area not later than 28 days before the relinquishment obligation is due.

### **SUBCONTRACTING**

- 8 The permit holder is not discharged from any obligation arising under this permit by contracting a third party to perform the relevant obligation.

### **ROYALTIES**

- 10 The permit holder will be liable for payment of a royalty to the Crown calculated in accordance with the Minerals Programme for Minerals other than coal and petroleum 1996 and Schedule 4 of this permit.
- 11 The permit holder must report and pay any royalties due in accordance with the relevant regulations.

### **REPORTING**

- 12 The permit holder must submit reports to the chief executive in accordance with the relevant regulations.

### **ACTIVITIES OF OTHER OPERATORS IN THE PERMIT AREA**

- 13 The permit holder must not unreasonably interfere with the activities of any other persons lawfully operating in the permit area.

### **RESTORATION**

- 14 On completion of activities in the permit area, the permit holder must carry out restoration of the permit area in accordance with all regulatory requirements, consents and good industry practice.

## Schedule 2

### The Land to Which the Permit Relates

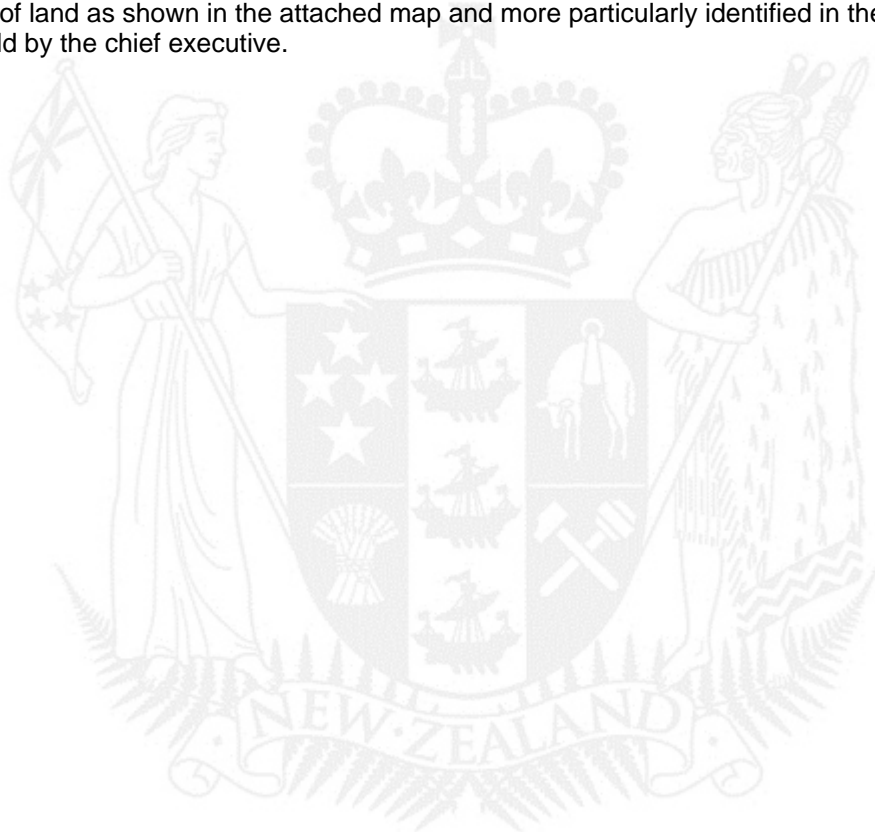
**Land Area:** 1485.38 hectares

**Regional Council:** Waikato Region

**Territorial Authority:** Hauraki District

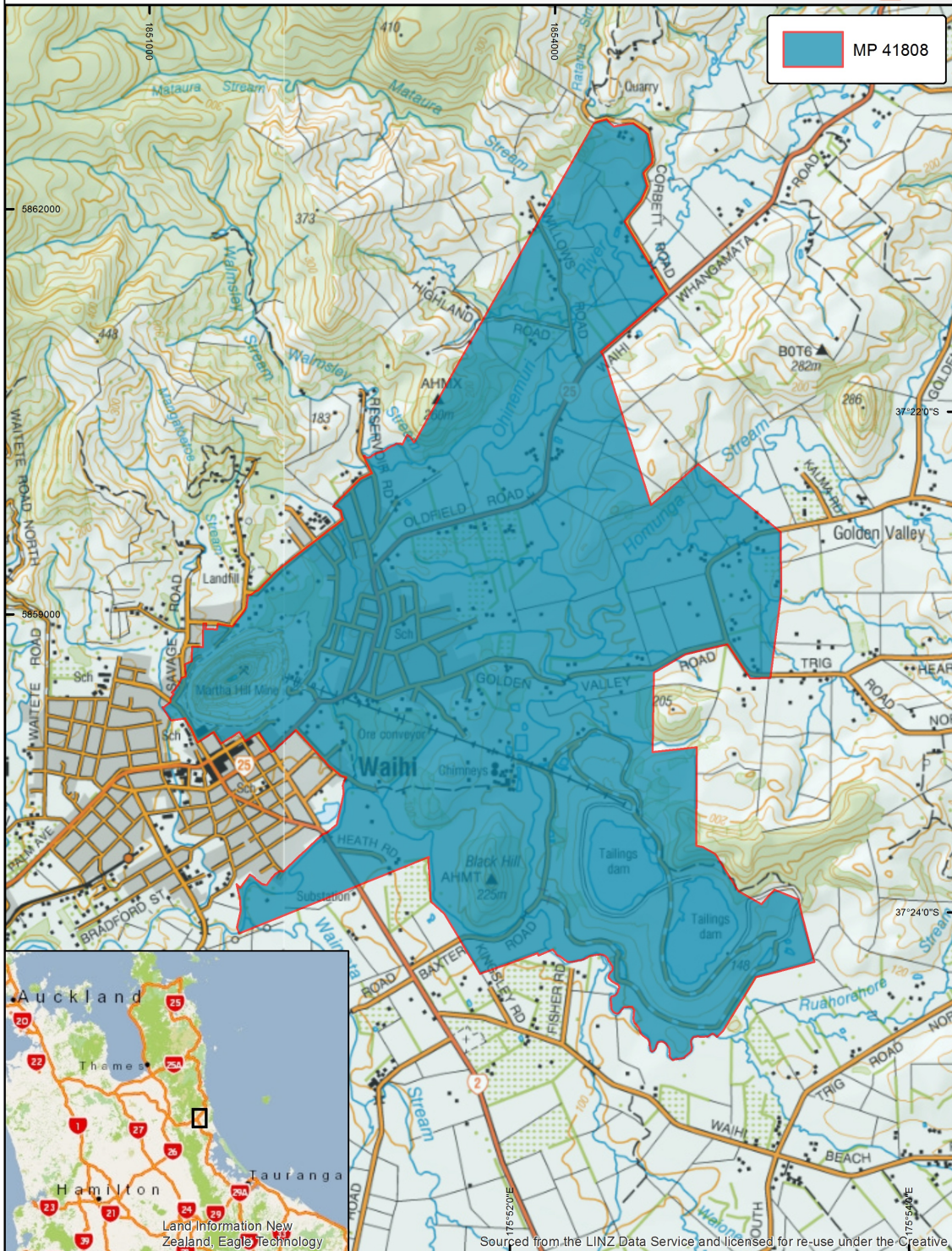
### Description of Land Area:

All that area of land as shown in the attached map and more particularly identified in the spatial database held by the chief executive.





MP 41808



Date: 11/04/2017

Projection: NZTM  
Datum: NZGD2000

1:35,000

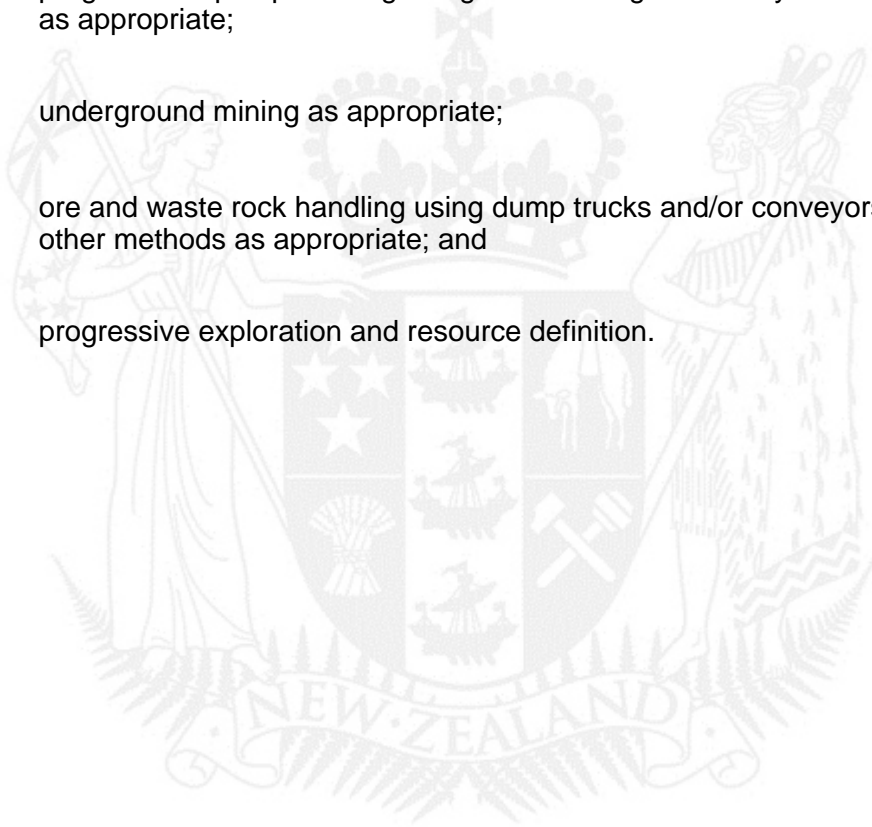
0 1 2 km

Area = 1485.38 ha  
Hauraki District

## Schedule 3

### Minimum Work Programme

- 1 The permit holder shall, to the satisfaction of the chief executive, carry out the following work programme:
- (a) stripping of overburden using earthmoving machinery and explosives as appropriate;
  - (b) progressive open pit mining using earthmoving machinery and explosives as appropriate;
  - (c) underground mining as appropriate;
  - (d) ore and waste rock handling using dump trucks and/or conveyors and/or other methods as appropriate; and
  - (e) progressive exploration and resource definition.



## **Schedule 4**

### **Royalties**

#### **POINT OF VALUATION**

- 1 The point of valuation for the gold and silver recovered under this permit is at the exit point from the gold room of the process plant.
- 2 The annual reporting period for this permit is 1 January to 31 December as specified under the Crown Minerals (Royalties for Minerals Other than Petroleum) Regulations 2013.



## CERTIFICATE OF EXTENSION OF PERMIT AREA

**IN THE MATTER** of the Crown  
Minerals Act 1991

**AND**

**IN THE MATTER** of mining  
permit number 41 808 dated 22  
March 2004 held by Waihi Gold  
Company Limited

**PURSUANT TO** section 36(1) of the Crown Minerals Act 1991 the First Schedule to the  
above mentioned mining permit is hereby replaced by the First Schedule attached  
herewith.

**DATED AT** Wellington this 16<sup>th</sup> day of March 2006

  
.....  
**SIGNED BY** Adam Feeley  
Group Manager, Crown Minerals



**FIRST SCHEDULE  
MINING PERMIT 41 808**

**AREA:** 1094 hectares

**LAND DISTRICT:** South Auckland

**LOCAL AUTHORITY:** Hauraki District

**LEGAL DESCRIPTION:**

All that area of land as is described below and shown on the plan attached.

APPELLATION	ID
Crown Land	4563938
Crown Land	4393435
Crown Land	4407106
Crown Land Survey Office Plan 11466	4266107
Crown Land Survey Office Plan 17894	4480603
Part of Crown Land Survey Office Plan 17894	4469046
Crown Land Survey Office Plan 17894	4469048
Crown Land Survey Office Plan 19713	4406956
Crown Land Survey Office Plan 19949	4407309
Crown Land Survey Office Plan 25838	4438876
Crown Land Survey Office Plan 25838	4407108
Crown Land Survey Office Plan 34032	4407110
Crown Land Survey Office Plan 39882	4563937
Lot 1 DP 22842	4398144
Lot 1 DP 30404	4300164
Lot 1 DP 307088	6551395
Lot 1 DP 307857	6581315
Lot 1 DP 308292	6558680
Part of Lot 1 DP 313685	6606957
Lot 1 DP 319696	6626493
Lot 1 DP 32481	4558376
Lot 1 DP 324875	6643955
Lot 1 DP 328655	6662564
Lot 1 DP 330435	6673673
Lot 1 DP 335297	6695076
Lot 1 DP 335598	6691507
Lot 1 DP 336072	6694496
Lot 1 DP 337476	6699235
Lot 1 DP 339901	6759795
Lot 1 DP 349828	6809732
Part of Lot 1 DP 352530	6779184
Lot 1 DP 353923	6783139
Lot 1 DP 35729	4268985
Lot 1 DPS 10324	4431348
Lot 1 DPS 10510	4450192
Lot 1 DPS 10523	4301408
Lot 1 DPS 10679	4546287
Lot 1 DPS 10751	4385394
Lot 1 DPS 11391	4369876
Lot 1 DPS 11802	4397627
Lot 1 DPS 12216	4520629
Lot 1 DPS 14424	4266186
Lot 1 DPS 14677	4536263
Lot 1 DPS 15418	4343409
Lot 1 DPS 15528	4272839
Lot 1 DPS 16820	4265817
Lot 1 DPS 18842	4286848
Lot 1 DPS 18977	4464474
Lot 1 DPS 19073	4457208
Lot 1 DPS 19116	4467502
Lot 1 DPS 19117	4466135
Lot 1 DPS 19331	4468026
Lot 1 DPS 19993	4344359
Lot 1 DPS 20467	4301407
Lot 1 DPS 20663	4457965
Lot 1 DPS 20802	4546742
Lot 1 DPS 20888	4262696
Lot 1 DPS 21066	4419380
Lot 1 DPS 21132	4298163
Lot 1 DPS 21415	4317603

Lot 1 DPS 21790	4361691
Lot 1 DPS 21883	4457948
Lot 1 DPS 21926	4454826
Lot 1 DPS 22600	4370485
Lot 1 DPS 22752	4390108
Lot 1 DPS 23097	4491906
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Lot 1 DPS 24225	4280891
Lot 1 DPS 24571	4517498
Lot 1 DPS 24580	4546193
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Lot 1 DPS 25426	4462875
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Lot 1 DPS 26706	4320419
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Lot 1 DPS 27856	4408412
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Lot 1 DPS 28811	4509406
Lot 1 DPS 30588	4271089
Lot 1 DPS 30656	4341173
Lot 1 DPS 32673	4397975
Lot 1 DPS 33317	4336893
Part of Lot 1 DPS 35030	4335528
Lot 1 DPS 35202	4545648
Lot 1 DPS 35767	4390737
Lot 1 DPS 35780	4476968
Lot 1 DPS 35823	4308520
Lot 1 DPS 35901	4526921
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Lot 1 DPS 36540	4309429
Lot 1 DPS 37287	4464849
Lot 1 DPS 37947	4365078
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Lot 1 DPS 38662	4341749
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Lot 1 DPS 65335	4536378
Lot 1 DPS 65832	4564172
Lot 1 DPS 66784	4451546
Lot 1 DPS 67398	4553929
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Part of Lot 1 DPS 85730	4272829
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Lot 3 DPS 49216	4423092
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Part of Lot 3 DPS 53534	4342641
Lot 3 DPS 54708	4320410
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Lot 4 DPS 19116	4307263
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Lot 5 DPS 51867	4500540
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Lot 5 DPS 92328	6534894
Lot 6 DP 307857	6581320
Lot 6 DPS 20663	4319872
Lot 6 DPS 23097	4337590
Lot 6 DPS 25138	4476642
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Lot 7 DP 307857	6581321
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Lot 9 DPS 92328	6534898
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Pt Lot 1 DPS 85178	6542793
Pt Lot 2 DPS 37020	6542792
Pt Lot 3 DPS 33510	4319885
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Pt Ohinemuri 8	4464842
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Pt Ohinemuri 8	4349074
Pt Ohinemuri 8	4320099
Pt Ohinemuri 8	4473381
Part of Pt Sec 1 Blk XVI Ohinemuri SD	4549351
Pt Sec 116 Blk XVI Ohinemuri SD	4442327
Pt Sec 13 Blk XII Ohinemuri SD	4466076
Pt Sec 13 Blk XII Ohinemuri SD	4476503
Pt Sec 13 Blk XII Ohinemuri SD	4301422
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Pt Sec 172 Blk XVI Ohinemuri SD	4391423
Pt Sec 174 Blk XV Ohinemuri SD	4334881
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Pt Sec 248 Blk XVI Ohinemuri SD	4480476
Pt Sec 267 Blk XVI Ohinemuri SD	6541790
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Pt Sec 331 TN OF Waihi	4308502
Pt Sec 338 TN OF Waihi	4286551
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Pt Sec 392A Blk XVI Ohinemuri SD	4316069
Pt Sec 392B Blk XVI Ohinemuri SD	4472820
Pt Sec 43 Blk XII Ohinemuri SD	4299147
Pt Sec 43 Blk XII Ohinemuri SD	4301423
Pt Sec 43 TN OF Waihi	4288955
Pt Sec 44 Blk XVI Ohinemuri SD	4343514
Pt Sec 45 TN OF Waihi	4464266
Pt Sec 45A TN OF Waihi	4528428
Pt Sec 62 Blk XVI Ohinemuri SD	4306226
Pt Sec 68 Blk XVI Ohinemuri SD	4429983
Part of Pt Sec 68 Blk XVI Ohinemuri SD	4308192
Pt Sec 76 Blk XVI Ohinemuri SD	4365790
Pt Sec 87 TN OF Waihi	6549682
Pt Special Site 2 Survey Office Plan 26502	4425025
Pt Special Site 28 Survey Office Plan 42547	4371662
Pt Special Site 3 Survey Office Plan 26502	4296697
Pt Special Site 7 Survey Office Plan 42547	4431448
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Sec 117 Blk XVI Ohinemuri SD	4459954
Sec 117 Blk XVI Ohinemuri SD	4285702
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Sec 206 Blk XVI Ohinemuri SD	4376290
Sec 21 Blk XVI Ohinemuri SD	4447927
Sec 22 Blk XII Ohinemuri SD	4539401
Sec 221 Blk XVI Ohinemuri SD	4441817
Sec 224 Blk XVI Ohinemuri SD	4467748
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Sec 234 Blk XVI Ohinemuri SD	4471402
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Sec 261 Blk XVI Ohinemuri SD	4385913
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Sec 264 Blk XVI Ohinemuri SD	4561192
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Sec 287 Blk XVI Ohinemuri SD	4433397



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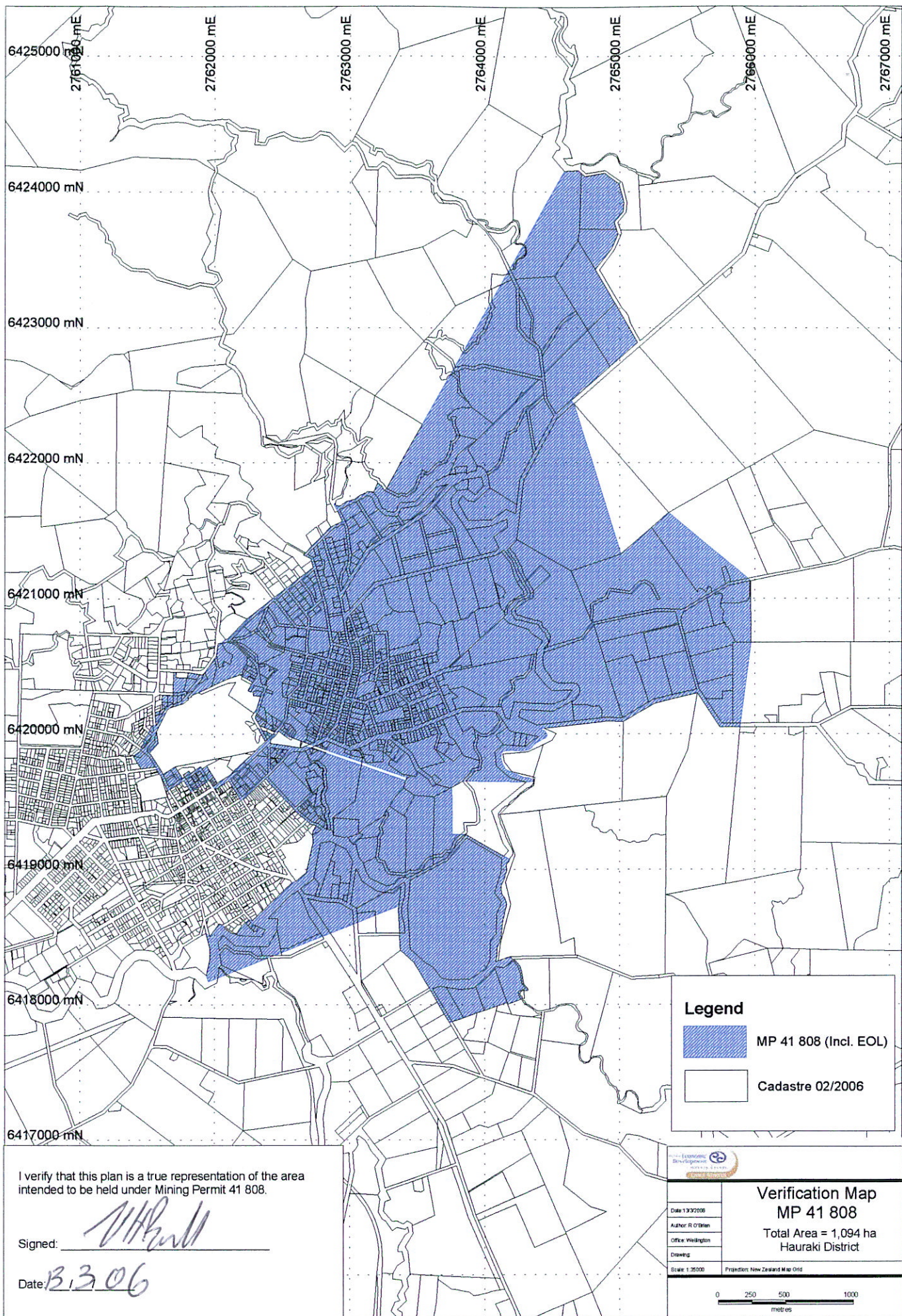
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Sec 54 Blk XVI Ohinemuri SD	4301323
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Sec 57A TN OF Waihi	4524113
Sec 57B TN OF Waihi	4380210
Sec 58 Blk XVI Ohinemuri SD	4333384
Part of Sec 58 Blk XVI Ohinemuri SD	4443301
Part of Sec 58 Blk XVI Ohinemuri SD	4260459
Sec 59 Blk XII Ohinemuri SD	4460188
Sec 606 TN OF Waihi	4501635
Sec 607 TN OF Waihi	4288338
Sec 608 TN OF Waihi	4294922
Sec 609 TN OF Waihi	4383509
Sec 610 TN OF Waihi	4479441
Sec 615 TN OF Waihi	4265511
Sec 616 TN OF Waihi	4555055
Sec 66 Blk XII Ohinemuri SD	4488310
Sec 672 TN OF Waihi	4387242
Sec 680 TN OF Waihi	4308999
Sec 680B TN OF Waihi	4522523
Sec 681 TN OF Waihi	4426138
Sec 683 TN OF Waihi	4258600
Sec 69 TN OF Waihi	4308382
Sec 691B TN OF Waihi	4482545
Sec 692 TN OF Waihi	4336964
Sec 692A TN OF Waihi	4494909
Sec 692B TN OF Waihi	4416371
Sec 693 TN OF Waihi	4335412
Sec 698A TN OF Waihi	4388142
Sec 7 Blk XII Ohinemuri SD	4322074
Sec 703 TN OF Waihi	4402729
Sec 710 TN OF Waihi	4321881
Sec 711 TN OF Waihi	4478606
Sec 712 TN OF Waihi	4557109
Sec 713 TN OF Waihi	4298825
Sec 714 TN OF Waihi	4415206
Sec 715 TN OF Waihi	4375728
Sec 716 TN OF Waihi	4313333
Sec 717 TN OF Waihi	4532085
Sec 718 TN OF Waihi	4415653
Sec 718A TN OF Waihi	4494366
Sec 719 TN OF Waihi	4438172
Part of Sec 72 Blk XII Ohinemuri SD	4474519
Sec 72 Blk XVI Ohinemuri SD	4272278
Sec 72 Blk XVI Ohinemuri SD	4414997
Sec 720 TN OF Waihi	4490138
Sec 721 TN OF Waihi	4365663
Sec 722 TN OF Waihi	4397948
Part of Sec 73 Blk XII Ohinemuri SD	4550840
Sec 732 TN OF Waihi	4328492
Sec 735 TN OF Waihi	4312422
Sec 737 TN OF Waihi	4274690
Sec 738 TN OF Waihi	4539330
Sec 739 TN OF Waihi	4462177
Part of Sec 74 Blk XII Ohinemuri SD	4442907
Sec 743 TN OF Waihi	4404256
Sec 744 TN OF Waihi	4561009
Sec 745 TN OF Waihi	4511463
Sec 747 TN OF Waihi	4418443
Sec 750 TN OF Waihi	4340625
Sec 751 TN OF Waihi	4418442
Sec 753 TN OF Waihi	4404254

Sec 755 TN OF Waihi	4482543
Sec 756 TN OF Waihi	4309661
Sec 757 TN OF Waihi	4544789
Sec 76 TN OF Waihi	4420188
Sec 761 TN OF Waihi	4476917
Sec 762 TN OF Waihi	4312985
Sec 763 TN OF Waihi	4391448
Sec 76A TN OF Waihi	4420329
Sec 76B TN OF Waihi	4550758
Sec 77 Blk XVI Ohinemuri SD	4476647
Sec 775 TN OF Waihi	4412219
Sec 78 Blk XVI Ohinemuri SD	4493036
Sec 80 Blk XII Ohinemuri SD	4288954
Sec 81 Blk XII Ohinemuri SD	4312139
Sec 81 Blk XVI Ohinemuri SD	4286232
Sec 85 Blk XII Ohinemuri SD	4525096
Sec 87 Blk XVI Ohinemuri SD	4292268
Sec 88 Blk XVI Ohinemuri SD	4369831
Sec 89 Blk XVI Ohinemuri SD	4505530
Sec 89 TN OF Waihi	4542644
Sec 9 Blk XVI Ohinemuri SD	4414185
Sec 90 TN OF Waihi	4371677
Sec 900 TN OF Waihi	4416187
Sec 901 TN OF Waihi	4319890
Sec 90A TN OF Waihi	4527901
Sec 90B TN OF Waihi	4527893
Sec 91 Blk XVI Ohinemuri SD	4324699
Sec 91 Blk XVI Ohinemuri SD	4561007
Sec 91 TN OF Waihi	4508861
Sec 91A TN OF Waihi	4519798
Sec 92 TN OF Waihi	4430107
Sec 94 Blk XV Ohinemuri SD	4472878
Sec 98 Blk XVI Ohinemuri SD	4366607
Sec 99 Blk XVI Ohinemuri SD	4398454







## CERTIFICATE OF CHANGE

**IN THE MATTER** of the Crown  
Minerals Act 1991

**AND**

**IN THE MATTER** of mining  
permit number 41 808 dated 22  
March 2004 held by Welcome  
Gold Mines Limited and Auag  
Resources Limited

In accordance with the attached Certificate of Amalgamation, Auag Resources Limited, Martha Mining Limited and Welcome Gold Mines Limited were amalgamated to become Welcome Gold Mines Limited, effective from 1 January 2005.

**AND**

In accordance with the attached Certificate of Incorporation, Welcome Gold Mines Limited changed its name to Waihi Gold Company Limited, effective from 5 January 2005.



Erin Ahern  
Business Support Officer

28 / 01 / 2005



## **CERTIFICATE OF AMALGAMATION**

**of**

**WELCOME GOLD MINES LIMITED  
(103982)**

This is to certify that on the 1st day of January 2005:

AUAG RESOURCES LIMITED (331787)  
MARTHA MINING LIMITED (231823) and  
WELCOME GOLD MINES LIMITED (103982)

amalgamated to become WELCOME GOLD MINES LIMITED under Part XIII  
of the Companies Act 1993.

Registrar of Companies

Dated this 5th day of January 2005



# CERTIFICATE OF INCORPORATION

## WAIHI GOLD COMPANY LIMITED 103982

This is to certify that GREEN & MCCAHERN MINING LIMITED was incorporated under the Companies Act 1955 on the 20th day of September 1978 and changed its name to WELCOME GOLD MINES LIMITED on the 8th day of January 1987 and was reregistered to become a company under the Companies Act 1993 on the 30th day of June 1997 and changed its name to WAIHI GOLD COMPANY LIMITED on the 5th day of January 2005.

*Neville Harris*

Neville Harris  
Registrar of Companies  
5th day of January 2005





**MINING PERMIT 41 808**  
**CROWN MINERALS ACT 1991**

**PERMIT HOLDER:** Welcome Gold Mines Limited and Auag Resources Limited  
13<sup>th</sup> Floor, Simpson Grierson Building  
92 – 96 Albert Street  
AUCKLAND

**NOW THEREFORE:** I, DARRYL FOSTER THORBURN, Group Manager Crown Minerals, acting under delegated authorities of 4 November 1997 and 3 April 2002, and in accordance with section 25 of the Crown Minerals Act 1991, do

**HEREBY GRANT** to the Permit Holder a mining permit for the duration of 25 years commencing on the date hereof

**WHICH HEREBY** gives the exclusive rights to mine for gold and silver in the land described in the First Schedule and delineated on the plan attached hereto

**UPON THE CONDITIONS** specified in the Second Schedule hereto and subject to the Crown Minerals Act 1991 and any regulations made thereunder.

**DATED AT** Wellington this 22 day of March 2004

Darryl Thorburn  
Group Manager Crown Minerals

# FIRST SCHEDULE MINING PERMIT 41 808

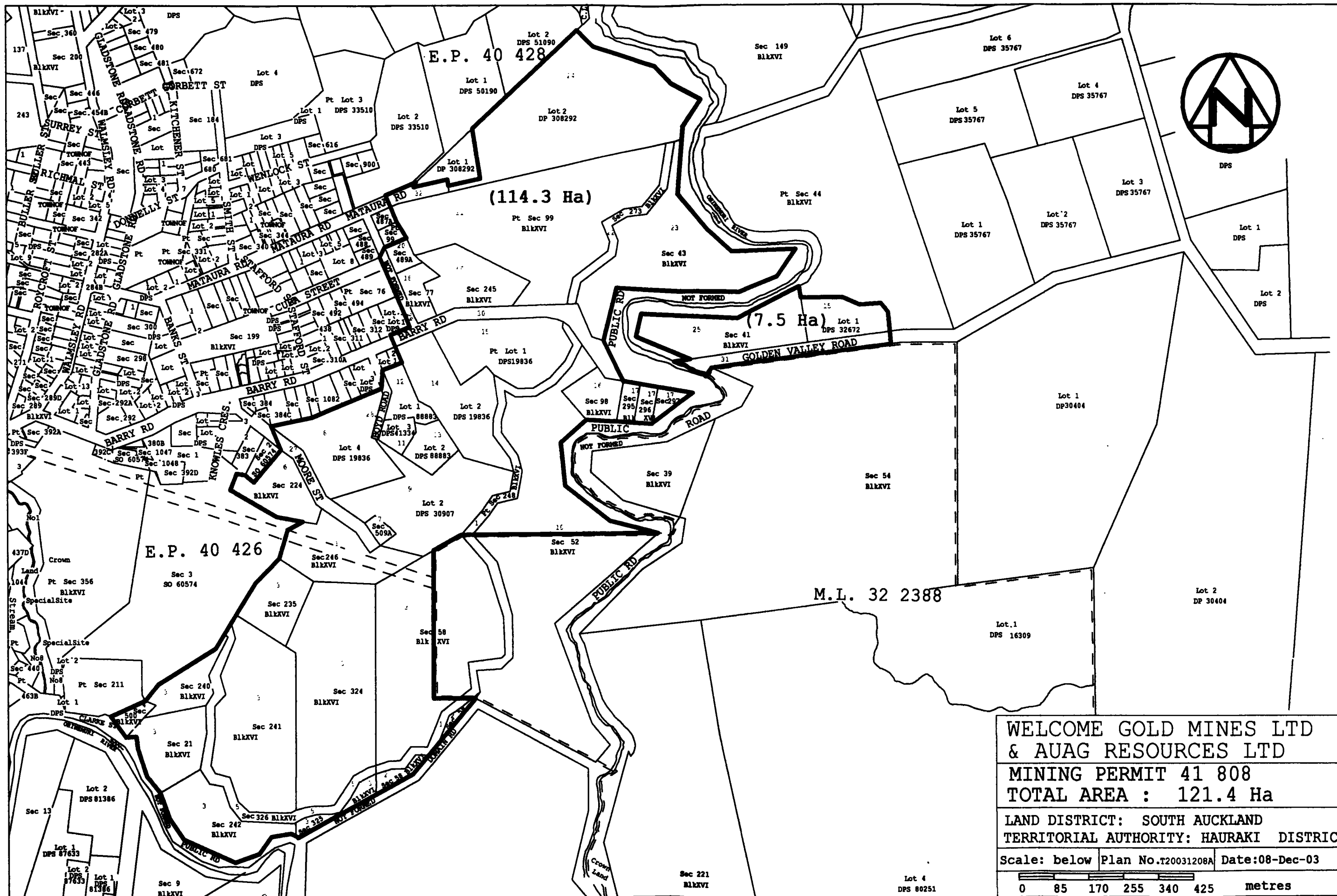
**AREA:** 121.4 hectares approximately

**LAND DISTRICT:** South Auckland

**LOCAL AUTHORITY:** Hauraki District

<b><i>Ref No</i></b>	<b><i>Legal Description</i></b>	<b><i>Instrument of Title</i></b>	<b><i>Mineral Ownership</i></b>
1.	Section 246 Block XVI Ohinemuri Survey District & Part Section 248 Block XVI Ohinemuri Survey District	SA5A/1381 (part)	Crown
2.	Part Section 58 Block XVI Ohinemuri Survey District	SA31D/452 (part)	Crown
3.	Sections 21, 235, 240, 241, 242, 324, 325 Block XVI Ohinemuri Survey District	SA5D/938	Crown
4.	Section 500 Town of Waihi	SA52A/934	Crown
5.	Section 326 Block XVI Ohinemuri Survey District	SA6D/515	Crown
6.	Section 224 Block XVI Ohinemuri Survey District	SA18A/955	Crown
7.	Section 509A Town of Waihi	SA7D/1190	Crown
8.	Lot 4 DPS 19836	SA18A/1416	Crown
9.	Lot 2 DPS 30907	SA27D/652	Crown
10.	Part Section 52 Block XVI Ohinemuri Survey District	SA31D/451	Crown
11.	Lot 3 DPS 41334	SA39C/868	Crown
12.	Lot 1 DPS 88883	SA70B/280	Crown
13.	Lot 2 DPS 88883	SA70B/281	Crown

<b>Ref No</b>	<b>Legal Description</b>	<b>Instrument of Title</b>	<b>Mineral Ownership</b>
14.	Lot 2 DPS 19836	SA18A/1414	Crown
15.	Pt Lot 1 DPS 19836	SA18A/1413	Crown
16.	Section 98 Block XV Ohinemuri Survey District	SA16A/892	Crown
17.	Section 295, 296, 297 Block XVI Ohinemuri Survey District	SA5A/1390	Crown
18.	Sec 77 Block XVI Ohinemuri Survey District	SA9D/442 (part)	Crown
19.	Section 245 Block XVI Ohinemuri Survey District`	SA1747/95	Crown
20.	Section 489A Town of Waihi	SA10C/80	Crown
21.	Pt Sec 99 Block XVI Ohinemuri Survey District	82688	Crown
22.	Sections 273 Block XVI Ohinemuri Survey District	82688	Crown
23.	Section 43 Block XVI Ohinemuri Survey District	SA1103/277	Crown
24.	Lot 2 DP 308292	32071	Crown
25.	Sec 41 Blk XVI Ohinemuri Survey District	SA22D/17	Crown
26.	Lot 1 DPS 32673	SA29B/277	Crown
27.	Part Moore Street	Crown Grant	Crown
28.	Part Boyd Road	Crown Grant	Crown
29.	Part Favona Street Unformed Road	Crown Grant	Crown
30.	Part Barry Road (Matangia)	Crown Grant	Crown
31.	Part Golden Valley Road	Crown Grant	Crown
32.	Part Mataura Road	Crown Grant	Crown



WELCOME GOLD MINES LTD & AUAG RESOURCES LTD		
MINING PERMIT 41 808		
TOTAL AREA : 121.4 Ha		
LAND DISTRICT: SOUTH AUCKLAND		
TERRITORIAL AUTHORITY: HAURAKI DISTRICT		
Scale: below	Plan No. T20031208A	Date: 08-Dec-03
0 85 170 255 340 425 metres		

favonak.pf

## **SECOND SCHEDULE**

### **CONDITIONS OF MINING PERMIT 41 808**

(Terms used in this Schedule shall have the same meaning as in the Minerals Programme for Minerals other than coal and petroleum (1 October 1996) unless the context indicates otherwise.)

#### **WORK PROGRAMME**

1. The permit holder shall make all reasonable efforts to undertake the activities authorised by the permit in general accordance with the following work programme:
  - (a) construct a decline from a surface portal to access orebodies by drilling and blasting and using machinery as necessary;
  - (b) drive crosscuts on to the orebody and development drives within the orebody as necessary;
  - (c) establish an air ventilation circuit and escape shafts as appropriate;
  - (d) commence mining by underground methods no later than five years after the date of grant of the permit unless otherwise approved in writing by the Chief Executive of the Ministry of Economic Development (the Chief Executive);
  - (e) transport broken ore and waste to surface stockpiles using trucks, conveyors or other methods as appropriate;
  - (f) backfill stope voids as necessary; and
  - (g) carry out ongoing exploration.

This work programme will be carried out in general accordance with attached Appendix 1.

2. The permit holder shall undertake all mining operations in accordance with good exploration or mining practice.

#### **ANNUAL WORK STATEMENT TO BE SUBMITTED**

3.
  - (a) The permit holder is required to submit to the Chief Executive before commencing work and within 30 days following the anniversary of the grant of this permit in each year, or at such other time as agreed by the Chief Executive, a proposed annual work statement for written acceptance.
  - (b) The proposed annual work statement shall detail what mining operations are proposed to be undertaken during the forthcoming twelve months.
  - (c) If no mining activities, or if pre-development activities only, are proposed during the forthcoming twelve months the permit holder shall give reasons for this in the proposed annual work statement.
  - (d) Where mining activities are proposed the proposed annual work statement shall be accompanied by a mine plan and, where applicable, shall provide



details of the quantity and quality of ore to be processed, the mining methods to be used, the anticipated location of mining, the extent and direction of mining, the estimated period of mine operation and the estimated remaining recoverable reserves.

- (e) If requested the permit holder shall supply further information on the work proposed for the forthcoming twelve months.
- (f) If requested the permit holder shall provide a modified proposed annual work statement and/or mine plan for written acceptance.
- (g) The permit holder shall make all reasonable efforts to comply with the current accepted annual work statement and mine plan (where applicable) which may include modifications to the initially accepted annual work statement and mine plan.

## **TECHNICAL REPORTS**

- 4. The permit holder shall report in accordance with prescribed regulations.

## **MARKING OUT**

- 5. If required by the Chief Executive the permit holder shall clearly mark the boundaries of the permit by pegs, coloured tape or other approved means.

## **ROYALTIES**

- 6. (a) Subject to condition 6(b) the permit holder is required to calculate and is liable to pay royalties to the Crown for any period for which a royalty return must be provided, in respect of all gold and silver taken from the land comprised in the permit that is:
  - i sold; or
  - ii gifted or exchanged or bartered or removed from the permit area without sale; or
  - iii used in the production process (as a substitute for otherwise having to purchase gold or silver for this purpose); or
  - iv unsold on the surrender, expiry or revocation of the permit, that is, inventory or unsold stocks of gold and silver or gold and silver-bearing mineral concentrate.
- (b) The permit holder is not liable to pay a royalty when:
  - i the net sales revenues from the permit are less than \$100,000 for a reporting period, except where the permit is part of a production unit; or

- ii the net sales revenues from the permit average less than \$8,333 per month if the reporting period is less than 12 months, except where the permit is part of a production unit; or
- iii the permit is part of a production unit and the combined net sales revenues of all permits and licences in the production unit are less than \$100,000 for a reporting period; or average less than \$8,333 per month, if the reporting period is less than 12 months.

### **Rate of Royalty**

- (c) Subject to condition 6(b), condition 6(d) and condition 6(e), the royalty that must be calculated and is payable in each reporting period, is the higher of either a one percent (1%) ad valorem royalty on net sales revenues or a five percent (5%) accounting profits royalty on accounting profits.
- (d) Subject to condition 6(b) and condition 6(e), where net sales revenues for the permit or the production unit are \$1,000,000 (one million dollars) or less for a reporting period, the permit holder is required to calculate, and is liable to pay the 1% ad valorem royalty only, and does not have to calculate and is not liable to pay the accounting profits royalty.
- (e) Where net sales revenues for the permit or the production unit exceed \$1,000,000 (one million dollars) for a reporting period, and in the preceding reporting periods net sales revenues were \$1,000,000 or less and greater than \$100,000, the permit holder is required to calculate the provisional accounting profits royalty for that reporting period and previous reporting periods (excluding any period for which a royalty was not payable in accordance with condition 6(b)), starting from either the commencement of the permit or the previous time the accounting profits royalty was calculated.
- (f) Where the permit holder is required to calculate the accounting profits royalty then, until all restoration costs are determined in respect of the permit, the permit holder is liable to pay the higher of a 1% ad valorem royalty on net sales revenues or a 5% provisional accounting profits royalty on provisional accounting profits. In the royalty return for the final reporting period, the permit holder is required to take into account all unclaimed restoration costs, and any proceeds or gains from hire, rent, lease or disposal of land or fixed assets which have not previously been deducted, and then to calculate any liability to pay the accounting profits royalty in all reporting periods where net sales revenues for the permit or the production unit exceeded \$1,000,000 (or averaged \$83,333 per month if the reporting period was less than 12 months).
- (g) The net sales revenues, ad valorem royalty, the provisional accounting profits royalty and the accounting profits royalty must be calculated in accordance with the provisions of paragraphs 15.9 to 15.47 of the Minerals Programme for Minerals other than coal and petroleum (1 October 1996).

### **Point of Valuation**

- (h) For the purpose of calculating net sales revenues, the point of valuation for the gold and silver recovered under this permit is at the exit point from the gold room of the Waihi Process Plant or at such other place agreed by the Minister of Energy (the Minister).

### **Reporting Period**

- (i) The annual reporting period for this permit is 1 January to 31 December in the same year or such other period as agreed by the Minister.

### **Royalty Return**

- (j) The permit holder is required to provide to the Chief Executive a royalty return for every reporting period within the duration of the permit regardless of whether or not a royalty is payable in accordance with conditions 6(a) or 6(b). The royalty return is required to be provided within five months of the end of the reporting period. The royalty return must be in the form prescribed, from time to time, in relevant regulations. If no relevant regulations have been made the royalty return must be in a form that sets out information as presented in paragraphs 15.54 to 15.57 of the Minerals Programme for Minerals other than coal and petroleum (1 October 1996).
- (k) The declaration in the royalty return filed for the permit must be signed by the permit holder and by an accountant or auditor.
- (l) If the net sales revenues are \$1,000,000 or less for a reporting period (or average \$83,333 or less per month, if the reporting period is less than 12 months) and the permit holder employs or engages the services of an accountant (in public practice) the accountant must also sign the declaration in the royalty return filed for the permit.
- (m) If the net sales revenues are over \$1,000,000 in a reporting period (or average more than \$83,333 per month if the reporting period is less than 12 months), the royalty return filed for the permit must also be accompanied by a written statement signed by either an accountant or an auditor. If the permit holder engages the services of an auditor to review financial statements or financial information as part of meeting the statutory requirements of the Companies Act 1993 or the Financial Reporting Act 1993, then the auditor must sign the written statement. The statement must be in the form prescribed in the relevant regulations. The statement is required to be paid for by the permit holder.



## **Royalty Payments**

- (n) Subject to condition 6(o), where net sales revenues for any half year (six months) in a reporting period average \$8,333 or more per month, the permit holder is liable to make an interim royalty payment of 1% of the net sales revenues for that six month period. The interim royalty payment must be received by the Chief Executive within 30 calendar days after the end of that six month period.
- (o) Where a reporting period is less than 12 months, the permit holder is liable to make one interim royalty payment to the Chief Executive of 1% of the net sales revenues for the reporting period, where net sales revenues for the reporting period average \$8,333 or more per month. The interim royalty payment must be received by the Chief Executive within 30 calendar days of the end of the reporting period.
- (p) The permit holder must pay to the Chief Executive any royalty that he or she is liable to pay within five months of the end of each reporting period. If the permit holder has made any interim payments of royalty and upon completion of the royalty return, the amount of royalty that he or she is liable to pay exceeds the total amount of interim payments made, the permit holder is required to pay the difference.

## **Keeping of Records**

- (q) The permit holder must, for the purposes of supporting the royalty return, keep for seven years or until the acceptance of the final royalty return for which the permit holder is responsible, whichever occurs first, proper books of account and records, which may include the books and records listed in paragraph 15.62 of the Minerals Programme for Minerals other than coal or petroleum (1 October 1996) maintained in accordance with accepted business practice and which explain or provide details of any aspect of the matters listed in paragraph 15.61 of the Minerals Programme for Minerals other than coal or petroleum (1 October 1996).
- (r) The permit holder must supply additional information or a detailed explanation of the basis of the royalty return to the Chief Executive within 30 days of receipt of a request by the Chief Executive for such information or explanation (refer paragraph 15.55 of the Minerals Programme for Minerals other than coal or petroleum (1 October 1996)).

## **Reports of Production**

- (s) The permit holder is required to provide to the Chief Executive an accurate report of gold and silver production for the preceding six-month period within 30 calendar days following 30 June and 31 December in each year. This report may be made as part of an interim royalty statement accompanying any interim royalty payment or the royalty return or by means of a separate

production report. A report of production is required to be forwarded irrespective of whether there has been any production during the relevant six-month period.

#### **Amendment of Royalty Conditions**

- (t) Where the Minister considers that the amount of net sales revenues specified in condition 6(d), at which and below which the permit holder is required to calculate and is liable to pay the 1% ad valorem royalty only, should be increased, the Minister may amend that condition and conditions 6(e), 6(l) and 6(m) to increase that amount by giving the permit holder one month's notice in writing.

#### **Books to be Available for Inspection**

- (u) All books, accounts and other records of the permit holder in relation to the permit shall be available at all reasonable times for inspection, for the purpose of verifying the royalty returns, by the Chief Executive or any person legally authorised in writing for that purpose.

#### **FEES**

7. The permit holder shall pay any prescribed fees that apply to this permit.

# **APPENDIX 1**

## **FAVONA UNDERGROUND MINE**

### **PROJECT DESCRIPTION AND METHOD OF MINING**

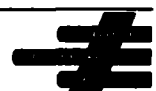
**AUGUST 2003**



# **FAVONA UNDERGROUND MINE PROJECT DESCRIPTION AND METHOD OF MINING**

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## **PROJECT DESCRIPTION AND METHOD OF MINING**

### **1 INTRODUCTION**

#### **1.1 Background**

The Favona underground project is located east of the Waihi township on rural land close to the existing process plant. For an overview of the project area and the proposed facilities see Figure 1.

The Favona underground project is primarily located in the area of the mining permit application however some activities will take place within the area of Mining Licence 32 2388, either on the surface or underground. The area of the land use consent sought from the Hauraki District Council is that of the mining permit application.

Resource consents for the exploration decline and associated work have been granted. Therefore, while consents are sought for only some of the activities proposed within the mining permit application area, for completeness the entire Favona project (as planned at the time of these applications) is outlined in this project description. Schedule 1 identifies the relevant location of the activities in relation to the mining permit application and the mining licence. Schedule 2 is a glossary of the mining terminology used within this project description.

#### **1.2 Overview**

The proposal is to mine by underground methods at a rate of 300,000tpa to 450,000tpa over a period of 9 -12 years, approximately 3 million tonnes of ore.

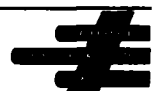
The orebody has been broadly defined to a level sufficient for conceptual mine planning. Exploration is continuing on the surface and will continue from underground after construction of the exploration decline, in order to further define the extent of the orebody and allow detailed underground design.

### **2 CONSTRUCTION**

Construction refers to surface and underground works associated with decline development to the point where access is gained to the orebody. For the most part, the construction works relate to the exploration decline and have already been granted consent.

#### **2.1 Construction Schedule**

The construction period is expected to be around 24 months from commencement of the portal excavation to the commencement of full-scale ore extraction. A project team comprising a number of the proposed mine management staff will manage construction.







## Conceptual Project Plan and Schematic Mine Access

Figure 1

Scale: NA  
 Drawn by: MPS  
 Date: 02/07/03  
 File: concept\_proj\_plan.fh9

**FAVONA**  
**UNDERGROUND**  
**PROJECT**



## **2.2 Hours of Work**

All construction activities will be 24 hour, 7 day per week operations.

## **2.3 Access**

Access to the project area will be via Baxter Road, across the Ohinemuri River via the existing bridge at the process plant site, then south along the river to a parking area located immediately south east of the process plant and close to the existing warehouse. A new haul road will provide access from the carpark area to the portal and the plant site. See Figure 1.

In addition access roads will be constructed to provide for light vehicle access to other surface facilities including to the ventilation shaft(s) and to the escape shaft within the project area.

## **2.4 Site Earthworks**

Earthworks will be required for on-site access roads, the haul road, noise bunds, the underground portal, ventilation shaft collars, the escape shaft collar, buildings, drainage and silt retention structures and other surface facilities. This work will be continuous throughout the construction phase and will be carried out by contractors using earth-moving equipment including bulldozers, excavators and trucks.

A new short haul road will be constructed to a standard appropriate for the life of the project and expected traffic volumes. This road will be located in the vicinity of the process plant and will be used as a haul road from the underground portal to the waste rock stockpile area and also to provide access to the portal for staff and contractors.

Roads suitable for light vehicles will be constructed to the ventilation shaft(s) and escape shaft.

Topsoil will be stripped and stockpiled for future rehabilitation works. The volume of material is expected to be approximately 2,000 cubic metres.

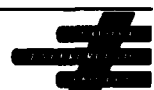
## **2.5 Portal**

The portal will be constructed to the west of the process plant as shown Figure 1 within the mining permit application area. Construction will involve the use of earthmoving equipment, drilling equipment and possibly some explosives.

Initially, an area approximately 250 metres long and 90 metres wide will be levelled and a cut made into the hillside to form the boxcut. The cut will have a face height of approximately 12 metres high at the portal. This face and the first 30 or so metres of the portal will be secured by normal geotechnical methods, which may include cable bolts, shotcrete, steel arches and ring beams.

The portal will be cut by either drill and blast methods or by use of a road header or other similar methods or by a combination of methods. The methods used will depend on the rock hardness and the equipment availability.

It is expected that it will take around six weeks to construct the portal, taking into account the need for some ground support.



For the first twelve months, ventilation will be provided by fan(s) located outside the portal. The fan(s) may be enclosed in acoustic cladding or fitted with silencers as appropriate to meet the appropriate noise levels. After approximately twelve months these fan(s) will be removed and fan(s) will be located at either the top or bottom of the escape shaft and eventually the ventilation shaft(s).

## **2.6 Decline**

Access to the underground mine will be via a decline from the portal. Work will commence on the decline as soon as the portal has been completed.

The decline will be constructed by using drill and blast techniques and/or a road header machine.

The decline will be located within the mining permit application area but will pass under the conveyor route within the mining licence.

The decline development will require progressive dewatering of the vein aquifer. The initial dewatering will occur through horizontal drain holes drilled from various levels in the decline as the decline is progressively developed. Water from the horizontal holes is collected underground and then pumped to the surface sedimentation basins and thence to the water treatment plant, or alternatively to the Tailings Storage Facility or the process plant.

The initial target horizon is expected to be 200 to 250m below surface. The decline will have a grade of 1:7, and will spiral a distance of 1.6 to 2km to access the first level of the ore body. While the length of the decline will be around 2 km, in plan view the physical distance between the start of the decline and the point at which it accesses the ore body will be around 500m to 1,000m.

The decline will be situated in the footwall of the orebody, with access developed across to the orebody and to the planned exhaust ventilation shaft(s) positions.

## **2.7 Waste Rock Disposal**

Waste material excavated during the construction of the portal and the decline will be stockpiled adjacent to the process plant in the mining licence area (known as the surge stockpile) and used later for backfilling. It is expected that construction will generate 140,000 cubic metres of stockpiled waste. Some of this material may be potentially acid forming (PAF). The proposed stockpile location has already been used for storing PAF ore material, (and currently approved surface water management practices will continue).

A new temporary stockpiling area 200m x 250m will be developed immediately to the north of the water treatment plant area. Known as the polishing pond stockpile, it will be used to temporarily stockpile Favona waste rock, and Martha and Favona ore. Diversion drains will be formed around the stockpile area perimeter to divert clean catchment runoff to the Ohinemuri River. The stockpile will be formed on a compacted clay pad. A collection pond will be developed to the east of the stockpile to collect stockpile runoff and leachate from the stockpile. Water collected in the pond will be pumped to the water treatment plant for treatment prior to discharge.



Site preparation for the polishing pond stockpile includes:

- Stripping of topsoil by scrapers;
- Removal of unsuitable material by dozer, excavator and trucks;
- Preparation of a low-permeability layer by compaction of in-situ soils with a sheep's foot roller;
- Excavation of drains and ponds;
- Construction of a new haul road to a standard appropriate for the life of the project and expected traffic volumes from the underground portal to the polishing pond stockpile area;
- Cut and fill to placement of material for construction of a collection pond;
- Construction of a collection pond pontoon including piledriving posts.

## **2.8 Road Base Stockpile**

A road base stockpile of up to 1,500 cubic metres of imported, NAF quarried rock will be maintained to provide material suitable for the construction of the road in the decline and other underground access.

## **2.9 Silt Control**

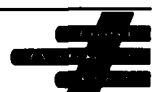
New silt collection ponds have been constructed to the east of the process plant to contain runoff water from disturbed project areas. These new ponds are lined with a HDPE liner and discharge to the existing process plant collection pond from where the water will be pumped to the water treatment plant, or alternatively to the tailings storage facilities or process plant.

## **2.10 Escape Route**

An escape shaft will be constructed during the latter half of the decline construction. It will double as a ventilation shaft until the decline reaches the northern end of the orebody. The shaft will be equipped with a ladder and platforms to provide an alternative emergency egress. The approximate location of the escape shaft is shown on Figure 1.

There are several different available methods of construction:

- Drill down and ream up (called raise boring and all material is extracted from underground)
- Alimak method involving use of specialised equipment which drills from underground, blasting and the extraction of the broken material from underground
- Sink a shaft from the top using a head frame. All material is winched to the surface.
- Or a combination of the above.



While ground conditions and availability of equipment will determine the methods employed, at this stage the Alimak method is the expected construction technique.

PAF material from the escape shaft will be taken to the polishing pond stockpile to be returned underground for stope backfill at a later date.

### **2.11 Ventilation Shafts**

Ventilation shaft(s) will be needed to provide air into the underground mine workings. The ventilation shaft(s) will be placed in appropriate locations taking into account underground ventilation needs, geotechnical considerations and surface constraints.

At this stage one ventilation shaft is envisaged, although additional shaft(s) may be provided if underground ventilation requirements so dictate. The approximate location of the currently proposed ventilation shaft is shown Figure 1.

The discussion above on construction methods for the escape shaft relates equally to ventilation shaft(s). At this stage, the Alimak method is the expected construction technique. The ventilation shaft(s) will be between 2.5m and 4m in diameter.

The overall height of the vent shaft discharge structure above ground level is around 7m including the silencer. The physical location of the ventilation shaft(s) will determine the type of fan used, whether it is surface or underground mounted and what kind of noise suppression measures are necessary.

Any construction on surface will involve:

- Earthworks to construct an access road to the surface breakthrough site
- Excavation of a foundation pad
- Fabrication of steel reinforcement
- Pouring of concrete into reinforced steel
- Placement of vent discharge structure into concrete footing

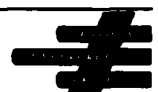
The ventilation shaft(s) construction will commence when the decline reaches the northern end of the ore body.

PAF material from the ventilation shaft(s) will be taken to the polishing pond stockpile to be returned underground for stope backfill at a later date.

### **2.12 Modifications to the Process Plant**

Only minor modifications are proposed to the process plant to accommodate Favona. The changes are limited to:

- Reducing pump speeds to handle the decreased feed rate by changing pulleys and motors;
- Installing a new grizzly on the feed bin, and a tramp magnet on the primary feed conveyor; and,



- Installing a new set of cyclones and cyclone feed pumps.

None of these modifications or additions are expected to change the noise generated from the process plant.

### **2.13 Other Site Works**

These will include:

- Silt ponds;
- An electrical substation to receive the 11kv incoming supply;
- On-site electrical, water, communication and sewerage reticulation;
- Construction of surface ancillary buildings and changehouse etc;
- Construction of a 3-bay surface workshop, store and vehicle servicing facility;
- Installation of vent fans;
- Construction of car parking areas and erection of fencing;
- Pipeline installation;
- Construction of underground explosives magazines, cribroom, fuel bay and maintenance service bay.

### **2.14 Further Exploration**

Surface exploration drilling will continue, so as to further delineate the orebody. Underground exploration drilling will be undertaken during the construction phase as sites become available.

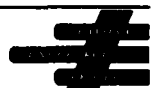
## **3 OPERATIONAL PERIOD**

The operational period starts when the orebody can be accessed. It includes mining and ongoing development of the decline through the remaining life of mine, and closure. Consent is sought under the mine applications for the operational period activities.

### **3.1 Production Schedule and Long Term Mining Scheme**

The current design allows construction of the decline to the bottom of the orebody, which allows mining up through the orebody without leaving any crown pillars. This approach maximises the mining reserve, i.e. ore recovery. A variation to the current design would see mining start at multiple levels, which allows an earlier start but necessitates leaving crown pillars between the working levels.

The initial mining target is the Favona North shoot as this contains a significant proportion of the reserve ounces and better grades. The decline is positioned to provide central access to the main Favona North shoot. This has the benefits of splitting this part of the orebody into two stopes per level, of centralising





infrastructure and of allowing the remaining Favona North shoots to be brought into production early in the schedule.

Favona South will be developed later in the schedule from drives and a subsidiary decline off the main decline. A number of small shoots associated with Favona South will be mined before the main shoot.

The Moonlight shoot would also be developed later in the schedule, following construction of a decline off the main decline. The Gladstone shoots, which are close to the portal, are relatively low grade and are scheduled to be mined at the end of the project.

The combined ore tonnage mined from underground will be in the order of 300,000 tonnes per annum, but could range up to around 450,000 tonnes per annum, over a life of approximately 9 to 12 years.

### **3.2 Hours of Work**

Underground mining (including drilling, blasting etc), haulage of material, stockpiling, water treatment and processing will be a 24 hour, 7 day per week operation.

It is important that underground mining is a continuous process to ensure the safety of the underground workforce and cater for the cyclical nature of the operation.

Processing, water treatment and tailings disposal will continue to be 24 hour per day, 7 day per week operations.

### **3.3 Mine Access**

Access to underground workings for men and materials and for ore and waste rock removal will be provided via the decline from the portal.

### **3.4 Mining Methods**

Benching cut and fill is the preferred mining method as it can provide better safety for miners and greater production. In benching cut and fill, the stopes are mined and filled in sequence from the bottom up. Access from the decline to the orebody will be developed at several points and at two levels that will be vertically separated by about 15m. Development drives will be formed within the orebody along the line of strike between accesses. The floor of the upper drive will be drilled and fired, the broken ore between the levels falling to the lower level from where it will be mucked out using manual or remote loaders. Once the broken ore is removed, backfill will be tipped from the upper drive to support the stope walls.

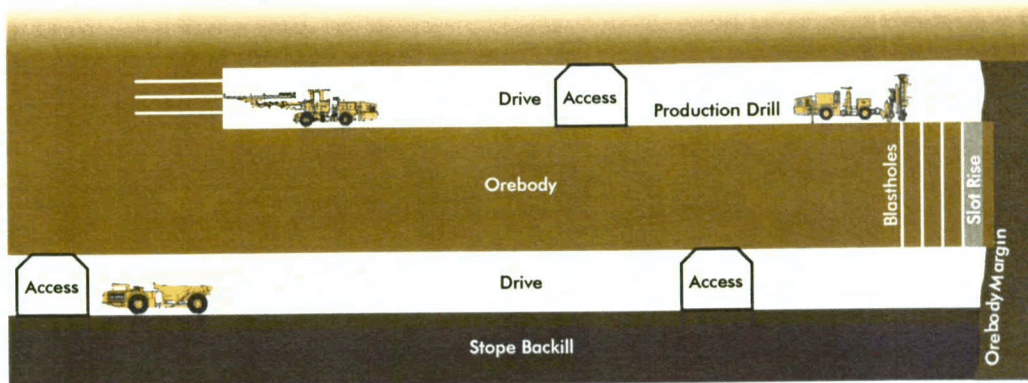
The next section of floor is drilled and blasted, and the sequence repeated, progressively removing the ore between the levels and backfilling the resulting void before moving to the next level.

Blast vibration will be controlled by overcutting and undercutting each stoping block, maintaining adequate fill clearances, decking charges and by delay sequencing each hole. Figure 2 shows a conceptual schematic of the mining methods.

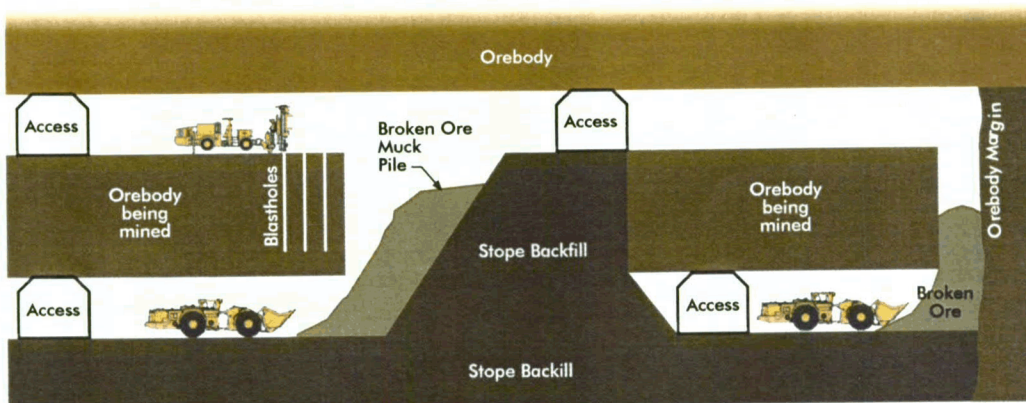


True Avoca

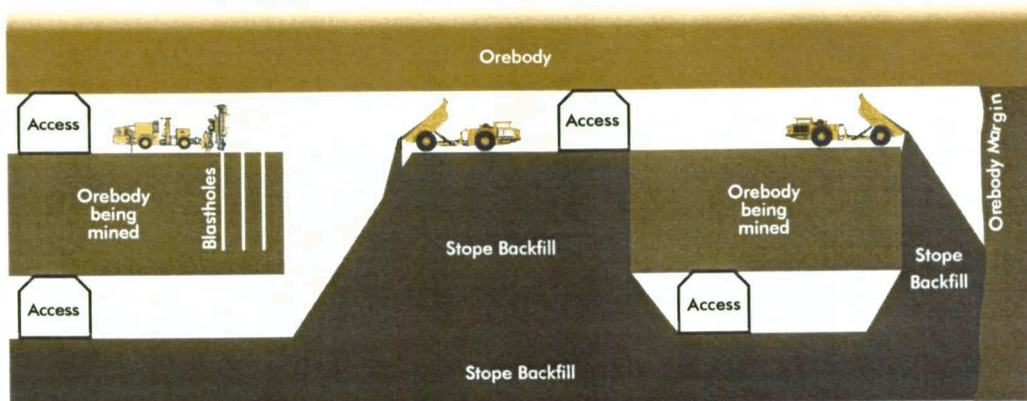
Tight Fill Avoca



Drilling Drive Access



Vertical Drilling & Mucking Out



Back Filling

Overhand cut and fill mining may be used in areas where the ground is not strong enough for benching cut and fill stoping, where orebodies are irregularly shaped or if necessary to further limit blasting vibration. In this method, access to the stopes will be via a ramp. The ore will be blasted and then removed in a thin slice from one end of the stope to the other. After each slice is extracted, the stope will be filled to maintain stability and to raise the level of the working floor. The procedure will then be repeated with pillars left where required and supports placed in the roof to maintain local stability. The ore will be trucked via the decline to the surface as it is mined.

Trucks will exit the decline/portal and deposit their loads into stockpiles. Ore will be stockpiled close to its current location adjacent to the process plant. Waste will be stockpiled in the surge or polishing pond stockpiles. It is expected that there will be approximately four to five truck loads per hour of either ore or waste.

### **3.5 Other Alternative Mining Methods**

Alternative underground mining methods that may be appropriate to parts of the orebody are floor benching, inclined room and pillar and open stoping. Open pit methods are not considered appropriate due to the geometry of the orebody and the high stripping ratios.

### **3.6 Underground Equipment**

Underground mining employs specialised compact equipment. The specialist equipment typically used for the proposed mining methods may typically comprise:

- 25 ton to 30 ton low profile haul trucks – approximately 3;
- Drilling, scaling and rockbolting jumbos – approximately 3;
- 5 to 6 cu.yd low profile load haul dump units (LHD's) – approximately 3;
- Grader – approximately 1;
- IT tool carriers – approximately 2;
- Low profile explosives carrier – approximately 1;
- Low profile hiab articulated vehicle – approximately 1;
- Blast hole automatic drill – approximately 2;
- Light vehicles – approximately 10.

The drilling equipment generally uses electrical power for drilling, Trucks and service vehicles use diesel power. LHD's are likely to be diesel powered.

### **3.7 Stope BackFill**

It is proposed to backfill at least 80% of the underground voids created by stoping, so that the surrounding rock and overlying ground surface will be permanently stabilised. The remaining 20% of the underground void is contained in access development and final stope access, which are relatively small openings. The material used for backfilling the voids will be the waste generated from the





underground mine development and some waste generated by the open pit during its operation.

The amount of fill required will typically be 65% to 70% of the tonnage of material removed from underground as a result of the swelling and compaction of the material. On average, this will amount to 150,000 to 220,000 tonnes of stope backfill each year. Backfilling will run concurrently with mining to ensure stable stopes.

### **3.8 Road Base Stockpile**

A road base stockpile of up to 2,000 tonnes of NAF quarried rock will be maintained to provide material suitable for underground road surfaces. The average annual requirement is estimated at 10,000 tonnes.

### **3.9 Ventilation**

Fresh air will be drawn into the mine through the decline and the emergency escape shaft and will be exhausted from the mine via fan(s) situated either on the surface or underground at the upcast vent raises. The mine workings will have a separate ventilation circuit to direct flow to the work areas. Mine airflow will be controlled by underground bulkheads, doors and by auxiliary fans.

The highly mechanised nature of the operations means that sizing of the ventilation system is determined primarily by the diesel equipment in use underground, and the need to disperse diesel fumes. A total of 160m<sup>3</sup>/sec to 180m<sup>3</sup>/sec of fresh air will need to be supplied.

Dust levels within the mine will be controlled by water suppression and ventilation to maintain safe working conditions.

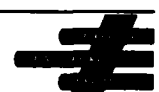
Blasting in the underground mine will locally produce fumes and dust. Adequate ventilation networks will be established to ensure the fresh air enters the mine to dilute, render harmless and remove the blast gases and airborne dust before mining crews re-enter the work areas.

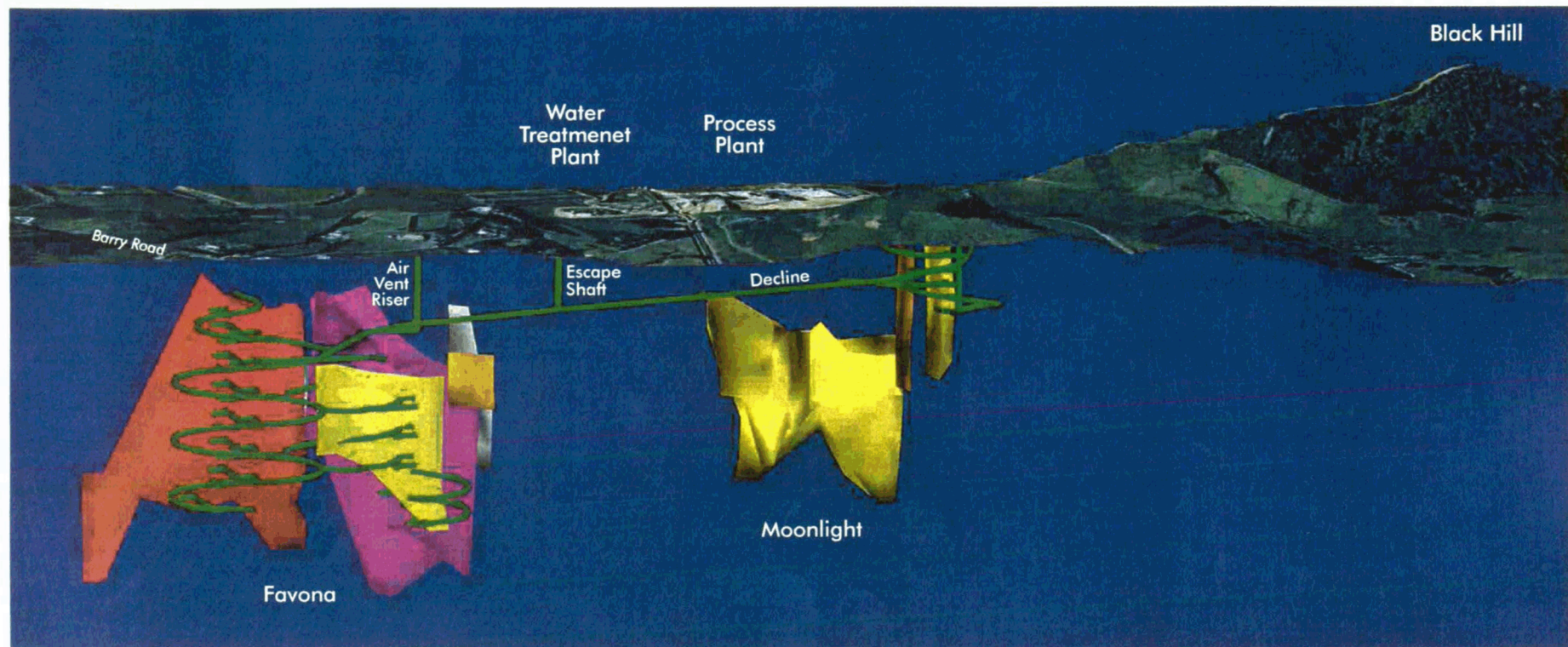
### **3.10 Dewatering**

A permanent pump station comprising a sump and two positive-displacement pumps will be installed at RL950m, which is 170m below the portal. Skid-mounted, centrifugal pumps, mounted below the lowest active level, will be used to pump from deeper in the mine up to the main sump. These skid-mounted pumps can be moved down, then up the decline as mining at the lower levels is completed and depleted levels are allowed to flood. Local drainage will be provided by drain holes between levels, and small pumps if required.

A schematic section of the underground workings is shown in Figure 3.

Where practicable, water will be recycled. Water that is not required for re-use underground will be pumped to the surface silt collection ponds, and then to either the water treatment plant, the process plant, or the tailings storage facilities.





### **3.11 Underground Services**

Water is used underground for drill flushing, washing down and dust suppression. Wherever practicable, clean water from underground will be used before being pumped to surface. Alternative sources of water include minewater from the Martha Mine (until it is closed), treated water, or clean water returned from Storage 2.

Potable water, sourced from the town supply, will be needed for underground crib rooms.

Compressed air will be needed for drilling, ground support and safety services. Compressed air will be supplied from a compressor mounted close to the portal on the surface.

Electrical power supply will be 11 kV to underground with 1000V reticulation throughout the workings and 400V/230V for surface facilities.

An underground fuel bay will be developed to reduce the need for vehicles to travel to surface for refuelling. Similarly an underground maintenance service bay may be developed to reduce vehicular traffic needing to go to the surface.

Explosives will be stored within the underground mine in an appropriate locked magazine.

A new workshop for major maintenance of vehicles will also be built near the process plant workshop area. This will likely require three service bays and a spare parts holding area.

### **3.12 Waste Rock Disposal**

The surge stockpile, which occupies an area already used for this purpose during construction, will cover a footprint of up to 120m by 100m.

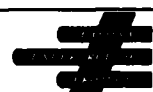
The polishing pond stockpile will cover a footprint of up to 200m by 250m and have a maximum height of up to 30m. This provides a total capacity of around 680,000 cubic metres, which is surplus to the maximum required capacity for Favona waste rock of around 450,000 cubic metres predicted to occur mid-project (around year 5). Both stockpiles will be empty by the end of the project.

### **3.13 Project Administration**

The project administration offices for both the construction and operation phases will be situated at the site of the Newmont Waihi Operations during the Martha Mine operation. Offices may be relocated closer to the process plant or Baxter Road after cessation of open pit mining.

### **3.14 Process Plant**

The existing process plant, which uses conventional carbon in pulp (CIP), will be used to treat Favona ore. The plant may be run on a campaign basis. Martha ore may be processed until the Favona ore stockpile contains sufficient quantity for several weeks processing. Once the Favona ore stockpile is depleted, the process plant may switch back to Martha ore. Because the process plant has capacity beyond that required for Favona only, on completion of the Martha Mine the plant





may be run in a continuous campaign mode, which would involve treating Favona ore on a week-on/week-off cycle.

Ore from the underground will be discharged onto a coarse ore pad and then loaded into the existing crusher. A new grizzly will be installed on the crusher as part of the minor plant modifications required to accommodate Favona. Fragmentation modelled indicates that there will be only a limited quantity of oversized material from the grizzly. The oversize will be stockpiled and periodically crushed using a mobile crusher on an as-required basis.

A tramp magnet will be installed on the primary feed conveyor from the crusher to prevent metal entering the grinding circuit.

As with the current project, the underground mine ore will be fed into the grinding circuit and the ground ore in slurry form will be pumped to a series of cyanide leach and carbon adsorption tanks for dissolution of the gold and silver which is then adsorbed onto the activated carbon. The other plant modifications include the installation of a new set of cyclones and cyclone feed pumps, and new pulleys and motors to slow the plant down to run at the reduced feed rate required for Favona ore.

Loaded carbon is removed from the circuit. The remaining slurry, which is barren of economically recoverable gold and silver, is pumped to the tailings storage area. The carbon which is loaded with gold and silver is chemically washed to remove the gold and silver which are then recovered by electrowinning. The remaining barren solution is recycled to the leach tanks. The precipitated gold and silver are smelted to produce bullion bars and the slag from the smelting process is returned to grinding circuits.

The process plant area has its own maintenance workshop and warehouse facility together with an office and a change house. The whole process plant area is security fenced.

### **3.15 Tailings Disposal**

Tailings will continue to be disposed of in the existing tailings storage facilities. No additional storage facilities are required for the Favona tailings as Storage 1A has additional capacity in excess of the 3,000,000t of Favona tailings over and above that required for the remainder of the Martha ore. There is also additional storage capacity in Storage 2, which may also be used intermittently during the overlap period when both Martha and Favona are operating.

Tailings disposal will follow the same practice as commenced in 1988.

### **3.16 Hazardous Substances**

Hazardous substances will be stored underground in small quantities sufficient to supply immediate service needs. These will include hydraulic oils, greases, bulk explosives, primers, detonators and chemical resins. Storage will be in accordance with relevant New Zealand Standards or Codes of Practice and where applicable in approved or banded containment areas.

The existing facilities used for chemical and reagent storage for processing ore and water treatment will continue to be used. Bulk fuel and lubricants will continue to be stored on surface. Storage will be in accordance with relevant New Zealand

Standards or Codes of Practice and where applicable in approved or banded containment areas.

### **3.17 Water Treatment and Disposal**

The water treatment plant serves as a central point for all excess wastewater from the site. The water treatment plant is located within the process plant area to treat as required all excess water prior to its discharge to the Ohinemuri River.

In general for the underground area:

- Clean runoff will be diverted and discharged directly to the Ohinemuri River via silt ponds.
- As is the existing practice, the existing process plant collection pond will be used to collect runoff from the ore/waste stockpiles. This water will be directed to the tailings ponds and/or water treatment plant.
- Sewerage from the changehouse and ablution blocks will be treated via septic tank systems.
- Sewerage from underground will be treated in chemical digesters and periodically removed to surface for off-site treatment.

### **3.18 Management of Water Disposal**

The management and disposal of water uses the following design approach:

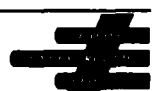
- Maximum diversion of clean water away from the site.
- Maximum segregation of waters at the site to provide lowest volumes of water with particular treatment requirements.
- Maximum recycle of process waters and reagents.
- Discharge of treated water in proportion to receiving water flow.

The water management system will be designed to meet existing water permit conditions at all times. In order to ensure this, monitoring of water flows and quality both in the system, in local groundwater, in discharge water in receiving water will be undertaken.

Waters which do not meet the quality requirements for direct discharge can be recycled through the water management system before discharge.

### **3.19 Further Exploration**

Both surface and underground exploration drilling will continue during the operational period. For this style of deposit, underground diamond drilling is more productive and economical than surface drilling, so the majority of the exploration will involve underground drilling.



## **4 REHABILITATION PHASE**

As with the current project, the Company will prepare a Rehabilitation and Closure Plan, which is subject to approval by Peer Review.

### **4.1 Overview**

The Favona project will not affect the timing of closure and rehabilitation of the Martha pit or the waste rock embankments, although it will delay the capping and final rehabilitation of the tailings ponds. Thus, the closure proposal for the visible components of the Martha project will be unaffected by the Favona project.

The life of the process plant will be extended due to the Favona project.

### **4.2 General Rehabilitation Criteria**

The disturbed land area for the portal, surface facilities and access roads will be less than eight hectares, including the polishing pond stockpile area of approximately 5 ha. Other areas are already consented as Area D and the Mining Licence. The additional surface and land use rehabilitation aspects of the Favona project will be planned and co-ordinated from the first year of project life. It is intended to return the area affected by the Favona project to pasture.

Detailed management of rehabilitation will be by annual management planning in conjunction with the relevant authorities.

### **4.3 Area – Specific Rehabilitation Criteria**

#### **4.3.1 Underground Mine**

The stopes in the underground mine will be progressively backfilled with excavated material during the project. Once the dewatering pumps are removed, the mine will flood naturally due to groundwater inflows. It is proposed to accelerate flooding by pumping treated water into the mine, or by using water from the Ohinemuri River. A section of the decline above the mine will be backfilled to provide a barrier between the flooded mine, where water quality will be degraded, and the decline above.

Following the removal of ventilation equipment and ladders, the ventilation shaft(s) and escape shaft will be backfilled, and capped with concrete.

A secure door will initially barricade the portal until flooding and monitoring is completed. The initial 100m of the decline will be tight filled to prevent subsidence and this will act as a barricade to the lower workings. Rehabilitation of the area around the portal and boxcut will be completed with recontouring, topsoiling and planting.

#### **4.3.2 Tailings Storage Facilities**

The rehabilitation methodology of the tailings storage facilities remains unchanged from that proposed for the Martha Mine.





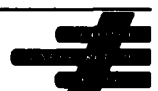
#### **4.3.3 Surface Facilities Area**

The rehabilitation of the stockpile and surface facilities areas, including roads, will involve:

- removal of all surface facilities unless required for long-term environmental management or otherwise required for use after mining has ceased;
- removal of all hazardous materials;
- provision of a final land form compatible with the surrounding area;
- provision of good surface drainage patterns and special long term, no-maintenance site drainage if necessary;
- provision of a cover of topsoil or other plant growth medium;
- re-establishment of areas of pasture grasses and trees compatible with the existing landscape values and the final land use.

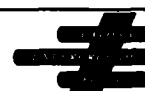
#### **4.4 Bonding**

The existing bonding arrangements for the Martha Mine will remain in place. A rehabilitation bond is expected for Favona. It is proposed that this be a new and separate bond.



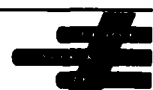
**Schedule 1: Location of Activities**

	Mining Licence	Mining Permit
<b>Construction Period</b>		
Access	*	*
Site Earthworks	*	*
Portal		*
Decline		*
Waste Disposal	*	
Ventilation Shafts		*
Escape Shaft		*
Other Site Works	*	*
<b>Operations Period</b>		
Underground Mining		*
Waste Rock Disposal	*	
Mineral Processing	*	
Tailings Disposal	*	
Water Treatment	*	
<b>Rehabilitation Period</b>		
Underground Areas		*
Surface Facilities	*	*
Waste Stockpile Facilities	*	*



**Schedule 2: Glossary of Mining Terms**

<b>Alimak</b>	A self climbing machine on a rack and pinion that is used in the development of vertical or sub vertical shafts to transport miners and supplies to the face.
<b>Benching Cut and Fill</b>	A mining method where vertical slices between sublevels are taken and each slice backfilled progressively along the orebody. Also known as AVOCA mining or longhole benching or vertical cut and fill.
<b>CIL</b>	Carbon in Leach:
<b>Decline</b>	A tunnel driven at a gradient (slope) to access the orebody
<b>Downcast Shaft</b>	A vertical or sub-vertical shaft where the airflow is downwards (generally fresh air)
<b>Drive</b>	A level, decline or inclined tunnel used to service the Orebody for extraction.
<b>Footwall</b>	The wall rock or waste rock on the lower face of an inclined vein / lode
<b>Hangingwall</b>	The wall rock or waste rock on the upper face of an inclined vein / lode
<b>Jaw Crusher</b>	A machine used to reduce the size of a hard rock by a nipping action.
<b>NAF</b>	Non Acid Forming Soil / Rock Material that does not contain elements which may oxidise to water soluble compounds capable of forming an acid.
<b>Overhand Cut and Fill</b>	A mining method where horizontal slices are taken and each slice backfilled working from the bottom up.
<b>PAF</b>	Potentially Acid Forming Soil / Rock Material that has the potential to produce acid drainage in the presence of oxygen or water.
<b>Panel</b>	Horizontal slices into which the orebody is broken into to allow mining of the orebody at various levels at same time.
<b>Portal</b>	Access into the underground mine decline from a reinforced rock / soil wall.
<b>Road header</b>	A tunnelling machine that employs picks mounted on a rotating head in turn mounted on a boom to excavate the rock. Sometimes called continuous miners.
<b>Stockpile</b>	A store of extracted rock or soil
<b>Stope</b>	Hole in the ground from which the mineral (ore) has been extracted.
<b>Sub-aerial deposition</b>	A method of discharging tailings into an impounded area involving discharge just above the water level but deposition within an impounded lake.
<b>Upcast Shaft</b>	A vertical or sub-vertical shaft where the airflow is upwards (generally exhaust air)
<b>Waste Rock</b>	Rock that is mined but does not contain economically recoverable minerals



**THE CROWN MINERALS ACT 1991**

**MINING PERMIT No. 41 808**

**Group Manager Crown Minerals**

**TO**

**Welcome Gold Mines Limited**

**and**

**Auag Resources Limited**

**Area: 121.4 hectares approximately**

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**MEMORIALS**



# **Crown Minerals Act 1991**

Section 36

## **Minerals Mining Permit 41808**

I, SUSAN CATHERINE BAAS, National Manager Petroleum and Minerals, Energy and Resource Markets, acting pursuant to section 36 of the Crown Minerals Act 1991 and acting pursuant to delegated authority under schedule 6, clause 2 of the Public Service Act 2020, grant to

OCEANA GOLD (NEW ZEALAND) LIMITED (Permit Operator)

an extension of duration of the permit for a period of 15 years from 21 March 2029.

This mining permit will remain a Tier 1 permit.

This extension of duration is granted subject to the Crown Minerals Act 1991 and all regulations made under that Act, and the conditions of the permit.

DATED this 22nd day of June 2023



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**SUSAN CATHERINE BAAS**

# **Crown Minerals Act 1991**

Section 36

## **Minerals Mining Permit 60541**

I, JOHN GORDON BUICK-CONSTABLE, National Manager Petroleum and Minerals, Resource Markets, acting pursuant to section 36 of the Crown Minerals Act 1991 and acting pursuant to delegated authority under schedule 6, clause 2 of the Public Service Act 2020, grant to:

OCEANA GOLD (NEW ZEALAND) LIMITED (Permit Operator)

a change to the conditions of the permit.

Schedule 3 of the permit is replaced with Schedule 3 attached to this Certificate.

This mining permit will remain a Tier 1 permit.

This change of conditions is granted subject to the Crown Minerals Act 1991 and all regulations made under that Act, and the conditions of the permit.

DATED this 12th day of August 2024



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**JOHN GORDON BUICK-  
CONSTABLE**

## Schedule 3

### Minimum Work Programme

- 1 Within 48 months of the commencement date of the permit, the permit holder shall (to the satisfaction of the chief executive):
  - (a) Undertake a programme of resource definition drilling to further delineate the extent of the resource;
  - (b) If feasible, commence constructing one or more declines or underground drives to enable further WKP resource definition drilling;
  - (c) Update the geological and resource models; and
  - (d) Provide the chief executive with a report detailing all work completed during this stage of the work programme, with submission of digital data including QA/QC information and data sufficient to demonstrate levels of accuracy and precision.
- 2 Within 84 months of the commencement date of the permit, the permit holder shall (to the satisfaction of the chief executive):
  - (a) Complete a mine pre-feasibility study, including, but not limited to, assessment and identification of a decline route or routes to the WKP classified resource;
  - (b) Conduct suitable sterilisation of any selected decline route where appropriate or, otherwise demonstrate that any incidental ore discovery along the route will not be sterilised;

- (c) Provide the chief executive with; a map of the area of the permit the permit holder considers is required to be retained to develop the mine, reasons why the area should be retained and any supporting technical information:
  - i) The chief executive will consider the map, reasons and information and will, within 20 working days, either approve or decline to approve the area to be retained;
  - ii) If the chief executive does not approve the area to be retained the chief executive must notify the permit holder, provide reasons for his or her decision and invite the permit holder to submit a map with a revised area, and any additional supporting information within 20 working days of the date of the notice;
  - iii) If the permit holder does not submit a map with a revised area and additional information or if the revised area is not approved by the chief executive within 20 working days of receipt, the chief executive will notify the permit holder, provide reasons for his or her decision and give the permit holder the opportunity to provide any additional information relevant to the decision as it sees fit within 20 working days of the date of the notice;
  - iv) The chief executive will then consider the information provided under ii) - iii), determine the area required to be retained to develop the mine and notify the permit holder of his or her decision and the reasons for it; and
  - v) Within 5 working days of approval or determination, the Permit Holder must apply under section 40 of the Act to surrender the area of the permit other than the area that has been approved or determined by the chief executive as being required to develop the mine.

3 Within 96 months of the commencement date of the permit, the permit holder shall (to the satisfaction of the chief executive):

- (a) Construct one or more declines to the WKP resource;
- (b) Complete a mine feasibility study;
- (c) Complete an Ore Reserve estimate as defined under a recognised resource classification code as per Schedule 1 of the Minerals Programme for Minerals (Excluding Petroleum) 2013;
- (d) Provide the chief executive with a report detailing all work completed during this stage of the work programme, including QA/QC information and data sufficient to demonstrate levels of accuracy and precision to be submitted to the chief executive in accordance with the regulations; and



- (e) Provide the Minister with a forward-looking work programme for approval by the Minister. The forward-looking programme shall include construction of mine infrastructure necessary to enable production of first ore, a commencement date of commercial mining and a minimum annual production rate that factors in:
  - i) The estimated Ore Reserves;
  - ii) The production schedule proposed in the mine feasibility study;
  - iii) The mining method to be used; and
  - iv) The need to follow industry best practice.

4 The permit holder shall, to the satisfaction of the chief executive, carry out the following work programme:

- (a) In conjunction with annual reporting required under relevant regulations, unless already provided for, provide the chief executive with a plan in digital format of all mine workings and planned development, and the timing of the development in line with the guidelines on Completing and Submitting Plans on Mines or Tunnels (2017) or any varied guidelines that may subsequently be issued; and
- (b) Notify the chief executive of any other deposits beyond the current WKP resource.

# **Crown Minerals Act 1991**

Section 36

## **Minerals Mining Permit 60541**

I, SUSAN CATHERINE BAAS, National Manager Petroleum and Minerals, Energy and Resource Markets, acting pursuant to section 36 of the Crown Minerals Act 1991 and Condition 15 of Schedule 1 of the permit certificate, and acting pursuant to delegated authority under schedule 6, clause 2 of the Public Service Act 2020, grant to

OCEANA GOLD (NEW ZEALAND) LIMITED (Permit Operator)

an extension of the land area of the permit.

Schedule 2 of the permit is replaced with Schedule 2 attached to this Certificate.

This mining permit will remain a Tier 1 permit.

This extension of the land area is granted subject to the Crown Minerals Act 1991 and all regulations made under that Act, and the conditions of the permit.

DATED this 23rd day of June 2022



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**SUSAN CATHERINE BAAS**

## Schedule 2

### The Land to Which the Permit Relates

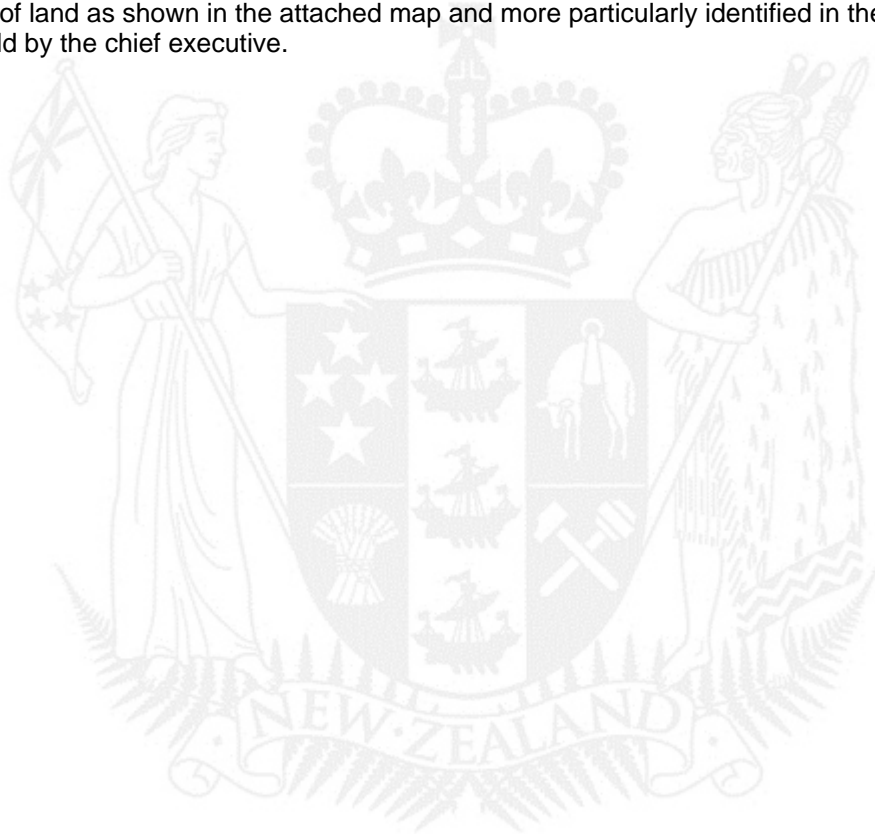
**Land Area:** 3271.75 hectares

**Regional Council:** Waikato Region

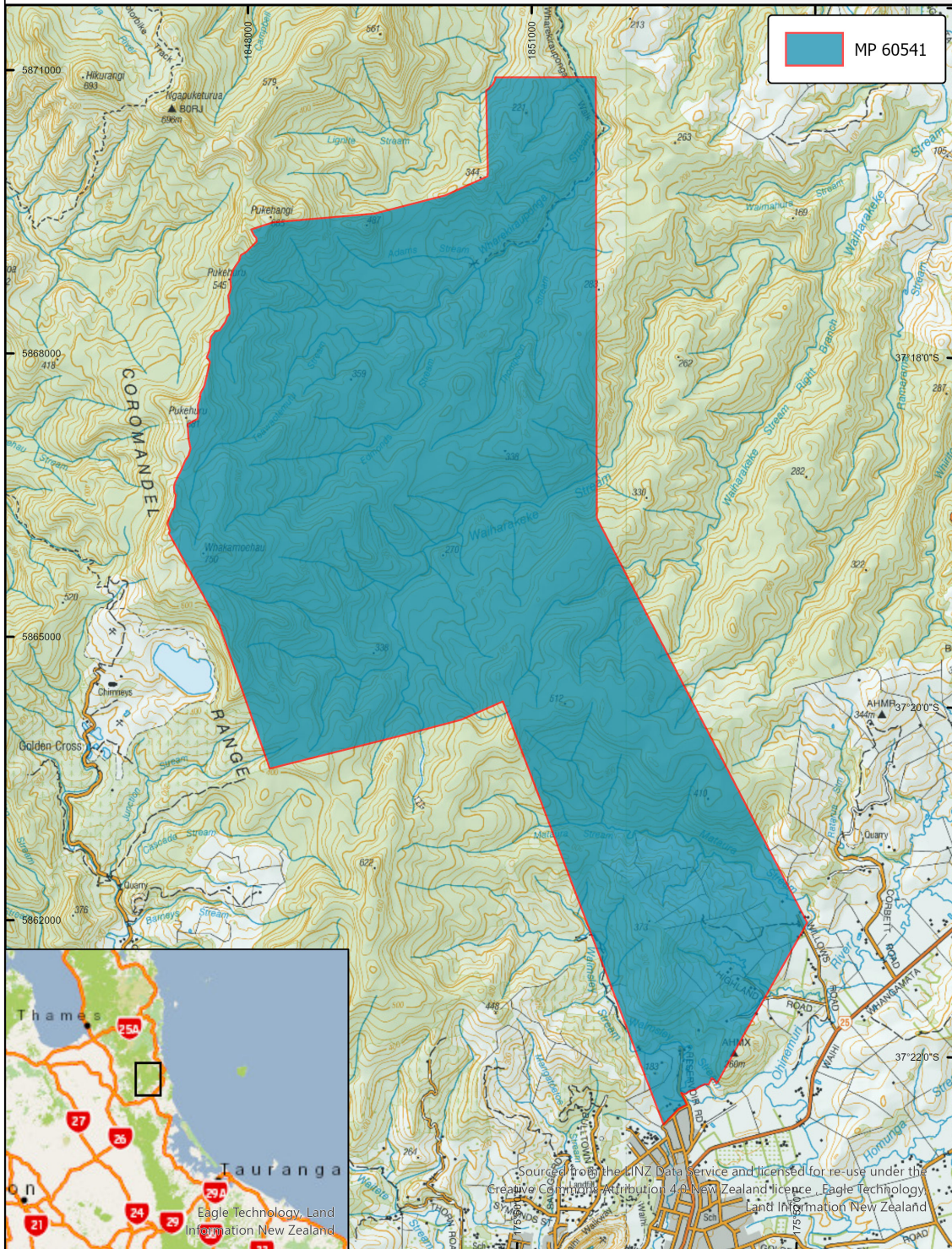
**Territorial Authority:** Hauraki District

#### Description of Land Area:

All that area of land as shown in the attached map and more particularly identified in the spatial database held by the chief executive.







Date: 12/04/2021

Projection: NZTM  
Datum: NZGD2000



1:50,000

0 1 2 km

Area = 3271.75 ha  
Hauraki District



# **Crown Minerals Act 1991**

Sections 25, 29A and 32

## **Minerals Mining Permit 60541**

I, PHILLIPPA JANE FOX, General Manager, Energy and Resource Markets, acting pursuant to sections 25, 29A and 32 of the Crown Minerals Act 1991 and acting pursuant to delegated authority under section 41 of the State Sector Act 1988, grant to:

**OCEANA GOLD (NEW ZEALAND) LIMITED (Permit Operator)**

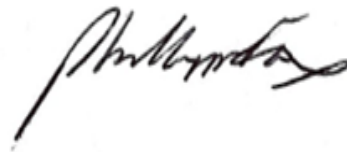
a subsequent permit to Minerals Exploration Permit 40598 which gives the exclusive right to mine for gold and silver in the land described in Schedule 2.

This minerals mining permit is granted for a term of 40 years commencing on 5 August 2020.

This permit is a Tier 1 permit unless and until a change to the tier status of the permit takes effect in accordance with section 2B or 2D of the Crown Minerals Act 1991.

This permit is granted subject to the Crown Minerals Act 1991 and all regulations made under that Act, and the conditions of the permit.

DATED this 5th day of August 2020



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**PHILLIPPA JANE FOX**

# **Schedule 1**

## **General Conditions**

### **RIGHTS GRANTED BY THIS PERMIT**

- 1 The permit holder has the right to prospect for the specified minerals, in the permit area.
- 2 The permit holder has the right to explore for and mine the specified Crown-owned minerals in the permit area.

### **GOOD INDUSTRY PRACTICE**

- 3 The permit holder must make all reasonable efforts to mine the land to which the permit relates in a proactive and efficient manner in accordance with this permit and good industry practice.

### **COMPLIANCE AND CONSENTS**

- 4 In carrying out activities under this permit, the permit holder must:
  - (a) comply with the Crown Minerals Act 1991 (Act) and all other relevant legislative requirements;
  - (b) obtain any consents and approvals required under the Resource Management Act 1991, the Exclusive Economic Zone and Continental Shelf (Environmental Effects) Act 2012 and any other applicable Acts; and
  - (c) in accordance with section 33A of the Act, obtain confirmation from the chief executive that WorkSafe has given its approval or consent before carrying out an activity under the permit that requires the approval or consent of WorkSafe (in respect of the requirements of the Health and Safety at Work Act 2015 or regulations made under that Act).

### **WORK PROGRAMME CONDITIONS**

- 5 Where the permit holder is required to commit to work pursuant to the permit, the permit holder must satisfy the chief executive that the permit holder can fulfil that commitment.

### **RELINQUISHMENT OBLIGATIONS**

- 6 In addition to any other relinquishment requirement imposed in accordance with the Act, the permit holder must (where required) relinquish an area of the permit determined in accordance with the Act and the Minerals Programme if an extension of duration is granted.
- 7 Where the permit holder is required to relinquish part of the permit area, the permit holder must submit to the chief executive a map of the proposed relinquishment area not later than 28 days before the relinquishment obligation is due.

## **SUBCONTRACTING**

- 8 The permit holder is not discharged from any obligation arising under this permit by contracting a third party to perform the relevant obligation.

## **FEES**

- 9 The permit holder must pay annual fees and any other applicable fees relating to this permit, in accordance with the relevant regulations.

## **ROYALTIES**

- 10 The permit holder will be liable for payment of a royalty to the Crown calculated in accordance with the Minerals Programme for Minerals other than coal and petroleum 1996 and Schedule 4 of this permit.
- 11 The permit holder must report and pay any royalties due in accordance with the relevant regulations.

## **REPORTING**

- 12 The permit holder must submit reports to the chief executive in accordance with the relevant regulations.

## **ACTIVITIES OF OTHER OPERATORS IN THE PERMIT AREA**

- 13 The permit holder must not unreasonably interfere with the activities of any other persons lawfully operating in the permit area.

## **RESTORATION**

- 14 On completion of activities in the permit area, the permit holder must carry out restoration of the permit area in accordance with all regulatory requirements, consents and good industry practice.

## CONDITION FOR AN EXTENSION OF LAND

- 15 The Minister may, within four years of commencement of the permit, extend the land to which the permit relates to cover an area of land in which the permit holder intends to construct, maintain and operate a Decline(s), provided the Minister has had regard to the principles of the Treaty of Waitangi and is satisfied, on the basis of a report from an independent expert commissioned by the permit holder, and any additional information provided by the permit holder, that:
- (a) the objective of extending the area of land is to economically deplete the delineated mineral deposit in the existing permit area to the maximum extent practicable in accordance with good industry practice;
  - (b) extending the land will enable the permit holder to more effectively mine the delineated mineral deposit in the existing permit area;
  - (c) the extension is limited to an area that is necessary to construct, maintain and operate the Decline(s);
  - (d) the Decline(s) will only be used for carrying out mining operations integral to, and required for, extracting the mineral deposit to the surface in accordance with good industry practice;
  - (e) the Decline(s) will be located at or near the mine site proposed within the existing permit;
  - (f) the extension is consistent with the purpose of the Act; and
  - (g) The permit holder has, or is likely to have, by the time the relevant work in any extension is undertaken, the capability and systems that are likely to be required to meet the health and safety and environmental requirements of all specified Acts for the types of activities proposed in the extension. Section 29A(3) and (4) of the Act apply when the Minister is making this assessment, with any necessary modifications.

This condition is subject to clause 6.2 of the Minerals Programme for Minerals (Excluding Petroleum) 2013.

The Minister may grant the extension of land on such condition as the Minister thinks fit.

For the purposes of this condition, Decline means a service tunnel (or tunnels) and any related infrastructure, for example, waste rock piles, mineralised stockpiles, ventilation fans, explosives magazine, materials storage, workshops, generators/substation etc.



## Schedule 2

### The Land to Which the Permit Relates

**Land Area:** 2374.08 hectares

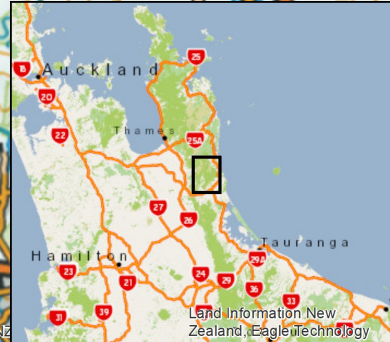
**Regional Council:** Waikato Region

**Territorial Authority:** Hauraki District

### Description of Land Area:

All that area of land as shown in the attached map and more particularly identified in the spatial database held by the chief executive.





Date: 3/08/2020	Projection: NZTM Datum: NZGD2000	1:75,000	0 2 4 km	Area = 2374.08 ha Hauraki District
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## Schedule 3

### Minimum Work Programme

- 1 Within 48 months of the commencement date of the permit, the permit holder shall (to the satisfaction of the chief executive):
- (a) Complete a mine pre-feasibility study, including, but not limited to, assessment and identification of a decline route or routes to the WKP classified resource;
  - (b) Conduct suitable sterilisation of any selected decline route where appropriate or, otherwise demonstrate that any incidental ore discovery along the route will not be sterilised;
  - (c) Undertake a programme of resource definition drilling to further delineate the extent of the resource;
  - (d) If feasible, commence constructing one or more declines or underground drives to enable further WKP resource definition drilling;

(e) Provide the chief executive with; a map of the area of the permit the permit holder considers is required to be retained to develop the mine, reasons why the area should be retained and any supporting technical information:

i) The chief executive will consider the map, reasons and information and will, within 20 working days, either approve or decline to approve the area to be retained;

ii) If the chief executive does not approve the area to be retained the chief executive must notify the permit holder, provide reasons for his or her decision and invite the permit holder to submit a map with a revised area, and any additional supporting information within 20 working days of the date of the notice;

iii) If the permit holder does not submit a map with a revised area and additional information or if the revised area is not approved by the chief executive within 20 working days of receipt, the chief executive will notify the permit holder, provide reasons for his or her decision and give the permit holder the opportunity to provide any additional information relevant to the decision as it sees fit within 20 working days of the date of the notice;

iv) The chief executive will then consider the information provided under ii) - iii), determine the area required to be retained to develop the mine and notify the permit holder of his or her decision and the reasons for it; and

v) Within 5 working days of approval or determination, the Permit Holder must apply under section 40 of the Act to surrender the area of the permit other than the area that has been approved or determined by the chief executive as being required to develop the mine.

(f) Update the geological and resource models; and

(g) Provide the chief executive with a report detailing all work completed during this stage of the work programme, with submission of digital data including QA/QC information and data sufficient to demonstrate levels of accuracy and precision.

2 Within 96 months of the commencement date of the permit, the permit holder shall (to the satisfaction of the chief executive):

(a) Construct one or more declines to the WKP resource;

(b) Complete a mine feasibility study;

(c) Complete an Ore Reserve estimate as defined under a recognised resource classification code as per Schedule 1 of the Minerals Programme for Minerals (Excluding Petroleum) 2013;



- (d) Provide the chief executive with a report detailing all work completed during this stage of the work programme, including QA/QC information and data sufficient to demonstrate levels of accuracy and precision to be submitted to the chief executive in accordance with the regulations; and
  - (e) Provide the Minister with a forward-looking work programme for approval by the Minister. The forward-looking programme shall include construction of mine infrastructure necessary to enable production of first ore, a commencement date of commercial mining and a minimum annual production rate that factors in:
    - i) The estimated Ore Reserves;
    - ii) The production schedule proposed in the mine feasibility study;
    - iii) The mining method to be used; and
    - iv) The need to follow industry best practice.
- 3 The permit holder shall, to the satisfaction of the chief executive, carry out the following work programme:
- (a) In conjunction with annual reporting required under relevant regulations, unless already provided for, provide the chief executive with a plan in digital format of all mine workings and planned development, and the timing of the development in line with the guidelines on Completing and Submitting Plans on Mines or Tunnels (2017) or any varied guidelines that may subsequently be issued; and
  - (b) Notify the chief executive of any other deposits beyond the current WKP resource.

## **Schedule 4**

### **Royalties**

#### **POINT OF VALUATION**

- 1 The point of valuation for the gold and silver recovered under this permit is at the exit point from the gold room of the Waihi processing facility.
- 2 The annual reporting period for this permit is 1 January to 31 December as specified under the Crown Minerals (Royalties for Minerals Other than Petroleum) Regulations 2013.

