

### Waihi Site Tour November 2, 2018

**Bernie O'Leary (General Manager)** 

CONSISTENTLY DELIVERING ON COMMITMENTS

INNOVATION | PERFORMANCE | GROWTH



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#### Technical Disclosure

The exploration results were prepared in accordance with the standards set out in the 2012 Edition of the 'Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves' ("JORC Code") and in accordance with National Instrument 43-101 – Standards of Disclosure for Mineral Projects of the Canadian Securities Administrators ("NI 43-101"). The JORC Code is the accepted reporting standard for the Australian Stock Exchange Limited ("ASX").

Information relating to Waihi exploration results in this document has been verified by, is based on and fairly represents information compiled by or prepared under the supervision of Lorrance Torckler, a Fellow of the Australasian Institute of Mining and Metallurgy and an employee of OceanaGold. Mr Torckler has sufficient experience that is relevant to the style of mineralisation and type of deposit under consideration and to the activity being undertaken to qualify as a Competent Person as defined in the JORC Code and is a Qualified Person for the purposes of the NI 43 101. Mr Jones as sufficient experience that is relevant to the inclusion in the form and context in which it appears. Information results in this document has been verified by Philip Jones, a Member of Heat and an an employee of OceanaGold. P. Jones has sufficient experience that is relevant to the style of mineralisation and type of deposit under consideration and to the activity being undertaken to qualify as a Competent Person as defined in the JORC Code and is a Qualified Person for the purposes of the NI 43 101. Mr Jones consents to the inclusion in this presentation of the matters based on their information in the form and context in which it appears.

For further scientific and technical information (including disclosure regarding mineral resources and mineral reserves) relating the Macraes Operation, the Didipio Operation, the Waihi Gold Operation and the Haile Gold Mine Project, please refer to the NI 43-101 compliant technical reports available at sedar.com under the Company's name. For further scientific and technical information (including disclosure regarding mineral resources and mineral reserves) relating to the EI Dorado property, please refer to the reports publicly available on SEDAR (<a href="https://www.sedar.com">www.sedar.com</a>) prepared for Pacific Rim Mining Corp.

#### **General Presentation Notes**

- All AISC and cash costs are net of by-product credits unless otherwise stated
- All financials are denominated in US Dollars unless otherwise stated

## INDUCTIONS



## **Agenda**

6:00am DEPART AUCKLAND

8:00am ARRIVE AT WAIHI (MORESBY AVE.)

8:05am INTRODUCTIONS & PRESENTATION

9:00am UG INDUCTION; FIT PPE

9:30am CORRENSO UG TOUR (G1)

**PLANT TOUR (G2)** 

**CORRENSO UG TOUR (G2)** 

**PLANT TOUR (G1)** 

12:30pm LUNCH

11:00pm

12:45pm **EXPLORATION** 

2:15pm OPEN PIT LOOKOUT

2:30pm CLOSE OUT (Q&A)

3:00pm DEPART WAIHI



### **Visitor Induction**

### **ALL VISITORS MUST**

- Remain with your OceanaGold host/escorts at all times
- Wear all appropriate PPE (as provided)
- Remove all finger rings
- No smoking
- Be aware of slip/trip or fall hazards
  - Walking surfaces
  - Changing ground conditions
- Obey all signage and rules
- Seat belts must be worn on mine site
- Photographs can be taken with permission of host



## **Emergency Procedures**

- In case of emergency, remain with your escorts and follow all directions given.
- Notify OceanaGold host/escorts of incidents or injuries immediately
- In an emergency, contact Security :
  - On radio channel 1;
  - Or by telephone 0800 00 55 22



## OVERVIEW OF OPERATIONS

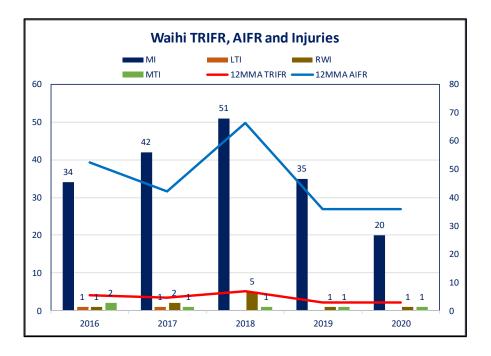


### **Health and Safety Performance**

**SAFETY SYSTEMS:** Corporate HSE management system, principal hazard management plans

**BEHAVIOUR BASED SAFETY:** Waihi has a mature, behaviour based safety system called Vital Behaviours

**EMPLOYEE ENGAGEMENT:** Focused on visible leadership, quality safety discussions through task observations and effective involvement from appointed H and S representatives



### Waihi Management Team

## MICHAEL HOLMES EVP & COO

### **BERNIE O'LEARY**

**General Manager** 

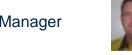


• ANDREW SCOTT: Process Maintenance Supt.



BRIGID QUINN: HR Manager

• CHARLIE GAWITH: Underground Manager



**DENIS PERERA:** Commercial Manager

• KEVIN STORER: Mine Services Manager



**CAMPBELL HAINES**: Process Production Supt.

• DANIEL CALDERWOOD: HSE Manager



## CRAIG FEEBREY EVP & HEAD OF EXPLORATION

### LORRANCE TORCKLER



Geology and Exploration Manager

### Waihi Workforce

**RESIDENTIAL OPERATION:** Strong, continuous stakeholder engagement

**UNDERGROUND MINING:** Operates 24/7 with three crews

**CONTRACTORS:** Exploration drilling and security operating 24/7

**OPEN PIT:** No ore mined from the Martha Pit since April 2015

**PROCESSING:** Operates 24/7 with four crews

### **WORKFORCE WAIHI GOLD MINE** FTE **UNDERGROUND** 123 **OPEN PIT PROCESSING** 47 **HSE** 14 **COMMUNITY** SITE SERVICES ADMIN/COMMERCIAL/HR 11 **EXPLORATION** 25

WAIHI GOLD MINE	CONTRACT
DRILLING (ALTON)	70
SECURITY	14
VARIOUS	36
TOTAL	350

## **Waihi Mine Footprint**



## **History of Waihi**

MININGS HISTORY: Mining started at Waihi in 1887 until 1952; modern mining commenced in 1987

**ECONOMIC CONTRIBUTIONS:** A significant contributor to local economy (40% of Waihi GDP) and regional economy (spend NZ\$85M per year). Wage bill over NZ\$30M per year.

**LOCAL EMPLOYMENT:** Waihi has ~4,500 residents; workforce has been predominantly locally hired (60%); significant direct and indirect employment





### **Waihi Operations Overview**

### **2018 GUIDANCE**

**GOLD PRODUCTION** 

**75,000 – 85,000** 

AISC

\$750 - \$790

ounces

per ounce sold

	Q3 2018	Y I D 2018	
TRIFR	_	6.8	per million work hours
GOLD PRODUCTION	26,619	65,939	OZ
GOLD SALES	25,999	66,882	OZ
CASH COSTS	<b>\$510</b>	\$614	per oz sold
AISC	\$603	<b>\$756</b>	per oz sold
AISC MARGIN	\$638	\$552	per oz sold

## AISC MARGIN \$638 \$552 per oz sold MINING COSTS \$53.36 \$61.39 per tonne mined PROCESSING COSTS \$26.09 \$30.04 per tonne milled SITE G&A COSTS \$19.15 \$21.60 per tonne milled

### THIRD QUARTER OVERVIEW

- QoQ production increased on higher head grade, better recoveries
- Improved mine productivity
- Exploration success continues
- Permitting advancing well

### OUTLOOK

- Q4 production expected to be lower
- Continued resource definition drilling along U/G drill drives
- Martha Project study underway

## **2018 Capital Overview**

### **2018 GUIDANCE**

GROWTH CAPITAL	<b>\$20 - \$23</b>	million
GENERAL OPERATING	<b>\$2 - \$3</b>	million
PRESTRIP / UGMD	\$3 - \$4	million
EXPLORATION	<b>\$15 - \$20</b>	million

### YTD CAPITAL EXPENDITURE

GROWTH CAPITAL	\$8.7	million
GENERAL OPERATING	\$3.4	million
PRESTRIP / UGMD	\$0.7	million
EXPLORATION	\$13.6	million

### **HIGHLIGHTS**

- Focused on Martha Underground development
- Exploration continues from 2 UG drill drives
- WKP becoming an increased focus
- Highly successful exploration program YTD

## UNDERGROUND MINING OPERATIONS



### **Correnso Underground Mine**

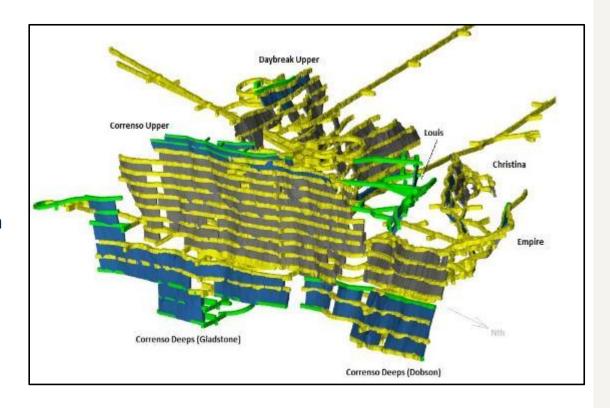
**METHOD:** About 600m strike length on main Correnso vein, 70 to 80 degree dip, average vein width 5m, between 200m and 400m below surface

**MINING METHOD:** Modified Avoca (open stope retreat, bog from bottom drive and backfill from top drive)

**PRODUCTION:** Currently producing ~7,000 ounces per month

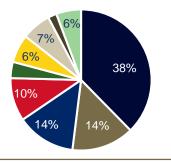
**UNIT COST:** US\$55 to US\$60 per tonne mined

**DEWATERING:** Dewatering capacity 180 l/s (actual 140 l/s)



## **Correnso Underground Fleet**

EQUIPMENT TYPE	MODEL	QUANTITY
Jumbos	Tamrock Axera 7-240	4
Production drills	Tamrock Solo 5-5V Tamrock Solo DL 3305	1 1
Loaders	Cat 1700	3
Loader	Cat 2900	2
Trucks	Atlas Copco MT 5020	4
Charge unit	Normet 1610B	1
Shotcrete unit	Normet 6050W	1
Tool carriers	Volvo L120	3
Grader	Caterpillar 12H	1
Water cart	Toro 30D	1
Hiab Truck	Isuzu Hiab Truck	1



- Labour Underground Ground Support
   Consumables
- Drill and Blast
- Operating Lease

Maintenance and SparesPower







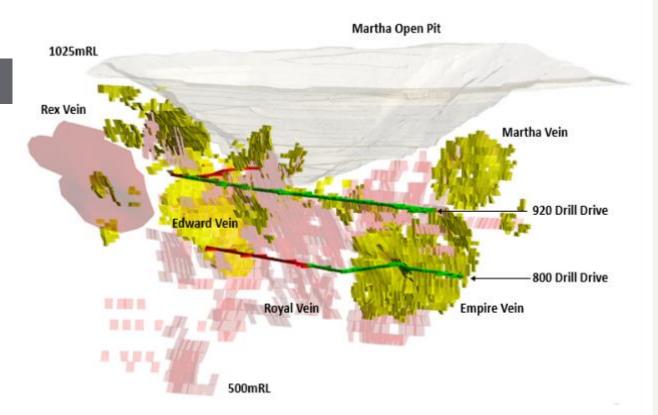
## CONSENTING



## The Martha Underground

### MARTHA UNDERGROUND

- Continued successful exploration results
- Expanded exploration target
- Continue to develop the UG drill drives
- Opportunity to significantly extend LOM
- Continue to provide significant economic and social contributions



## **The Consenting Process**

### **MARTHA UNDERGROUND**

- Q1 2018, commenced consenting activities
- Council hearings to commence late 2018
- Consenting could continue late into 2019
- Working on opportunities to limit potential production hiatus
- Consenting for underground workings primarily located beneath the base of the open pit
- Limited workings beneath the town
- Significant community engagement

MARCH 2018	Project Martha announced; Consultation commenced
MAY 2018	Consents lodged
AUGUST 2018	Public Notification
OCTOBER 2018	HDC planners report available; OceanaGold evidence
NOVEMBER 2018	Council hearing
JANUARY 2019	Council decision; Appeal period (three weeks)
JULY 2019	Environmental Court hearing (if required)
DECEMBER 2019	Environmental Court decision (if required)

## PROCESSING OPERATIONS



## **Processing Plant**

**UNIT COST:** Plant performance optimised to reduce costs while maintaining recoveries; currently US\$30 per tonne processed

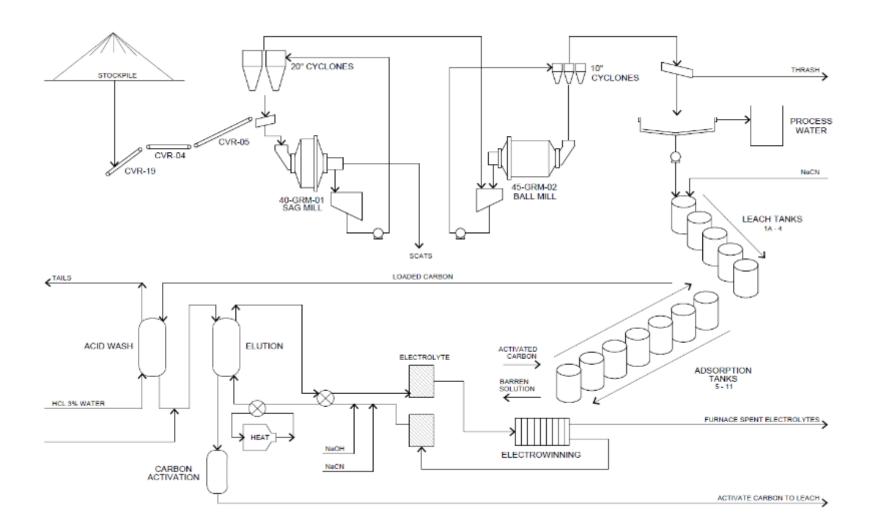
**MILL THROUGHPUT:** Currently 0.5Mtpa while open pit operations remain suspended. Maximum throughput 0.9Mtpa (U/G ore only); or 1.3Mtpa (O/P ore only)

**PROCESSING CIRCUIT:** Crushing, grinding, carbon-in-pulp, elution, electro-winning, and smelting

**RECOVERY:** Achieving ~86% to 90% in-line with historical performance. Recovery relationship with gold head grade and arsenic head grade



### **Process Plant Flow Sheet**



## **Tailings Storage Facilities**

**STORAGE FACILITIES:** One active and one dormant TSF

**REHABILITATION:** Undertake progressive rehabilitation works in line with our licence requirements

**SAMPLING:** Regularly undertake sampling and report on an annual basis to the regulator

**GEOTECHNICAL:** Complete an annual TSF report, including an assessment of the TSF structural integrity and an independent peer review held annually



## SUSTAINABILITY



## **Environmental Management**

An unwavering commitment to the environment today, for tomorrow

# Farming

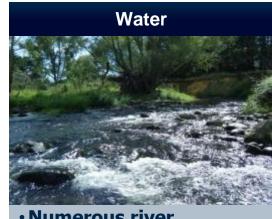
Management of neighbouring farms



Monitoring of local wildlife



 Restoring lands with native flora



 Numerous river monitoring sites



 Monitoring of noise, dust and blast vibration



Protection of significant sites

### **Environmental Obligations**

### **WAIHI**

• Footprint of 318 hectares; 231 hectares rehabilitated authorized by comprehensive suite of permits.

### MONITORING AND REPORTING REQUIREMENTS

- TSF structural integrity
- Particulate matter and air quality
- Discharge water / ground water / surface water quality
- TSF geochemistry
- Wildlife and biological monitoring
- Noise and vibration monitoring
- Pit lake formation and discharge
- River water quality and biodiversity monitoring
- Rehabilitation and closure plans
- Heritage site monitoring and protection



### **Rehabilitation Activities**

Continuous rehabilitation to improve biodiversity



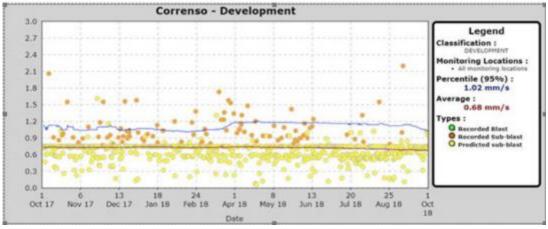
## **Vibration Monitoring**

### Significant network of vibration monitors

- 22 permanent monitors and 2 roving monitors
- Automated reporting system visible to community via the internet







### **Heritage Monitoring**

### Preservation of significant heritage areas

**COMMITMENT TO HERITAGE:** We have committed to preserve the Cornish Pumphouse, Union Hill, Grand Junction and other heritage areas

- Vibration undertaken
- Condition surveys undertaken
- Restoration of refinery building undertaken
- Prepared Union Hill Management Plan for community

Before restoration



### After restoration





## **Community Relations**



### **Community Relations**

### High level of engagement and monitoring

FUTURE PLANNING: 64% of residents surveyed believe OceanaGold plans well for the future of Waihi

**ECONOMIC BENEFITS:** ~90% of residents and businesses surveyed recognise the positive impact the mine has on employment opportunities and the broader economy within Waihi

**POSITIVE SENTIMENT:** 92% of residents and 96% of businesses surveyed were in favour or neutral about the Waihi operation.



### **Our Community**









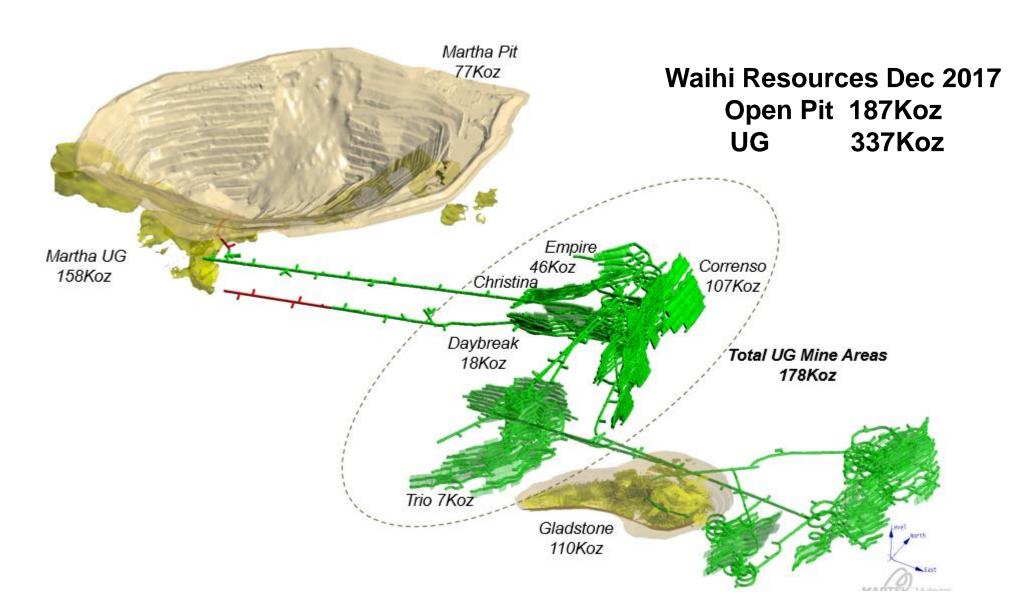


- We contribute \$200,000 each year to local schools and educational facilities
- Our sponsorship and donations programme contributes \$100,000 each year to local groups and organisations
- Staff are actively involved with 'in kind' assistance throughout the community
- Our Education Centre hosts around 6,500 students each year
- We have a comprehensive Property Policy in place which mitigates any perceived negative financial effects for property owners

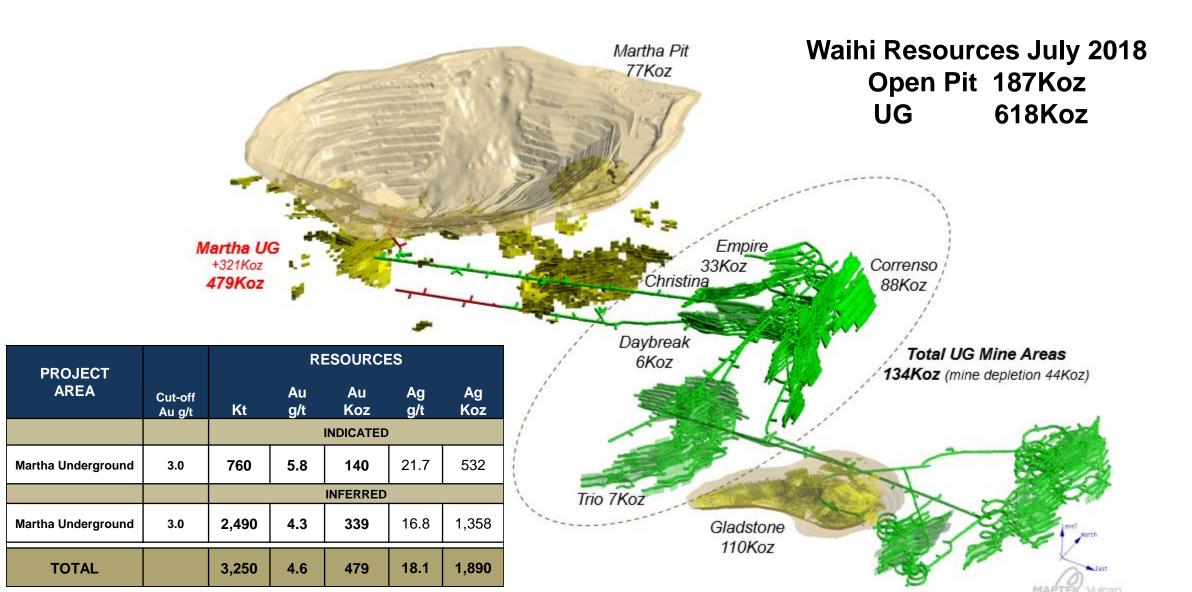
## **EXPLORATION**



## Waihi Brownfield Exploration - Historical

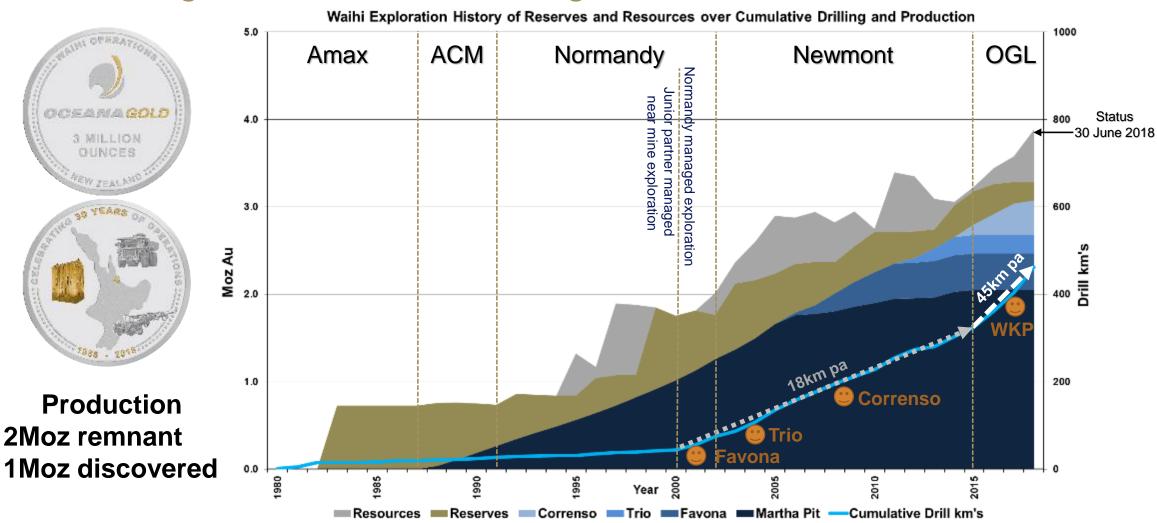


## Waihi Brownfield Exploration - Current



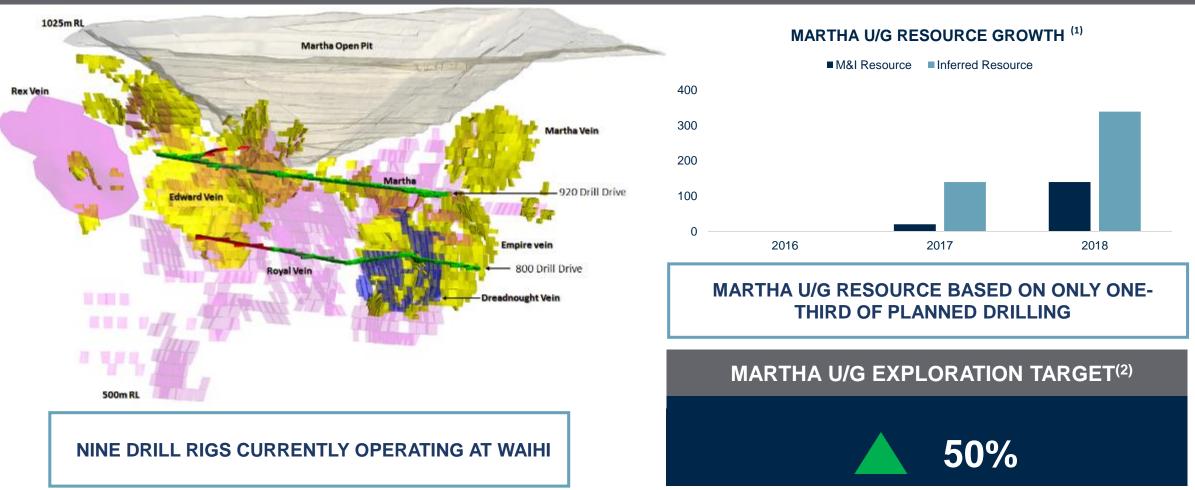
## Organic Growth at Waihi

### Unlocking additional value through the drill bit with >60km in 2018



## **Waihi Exploration**

### **CONSENTING OF 10-YEAR MINE LIFE EXTENSION IN PROGRESS**



Underground resources are reported below the consented Martha Phase 4 open pit design within conceptual underground mining shapes and at a gold price of NZD\$2,083/oz. Provision has been made for dilution and mining recoveries. The tabulated resources are estimates of metal contained as troy ounces of gold and do not include allowances for processing. All figures are rounded to reflect the relative accuracy and confidence of the estimates and totals may not add correctly. There is no certainty that Mineral Resources that are not Mineral Reserves will be converted to Mineral Reserves.

<sup>2.</sup> Exploration Target is outlined as a potential volume of between 5 million and 8 million tonnes at a grade of between 4.0 g/t and 6.0 g/t gold. Insufficient exploration work has been conducted to date to define a mineral resource of this magnitude and it is uncertain if further exploration will result in the delineation of additional mineral resources. The exploration target is conceptual in nature and is based on the assessment of surface and underground drilling data collected by the Company as well as historical and archived geological and mining data from over a century of mining activity at Waihi. Refer to OceanaGold news release dated 9 August 2018 for additional information.

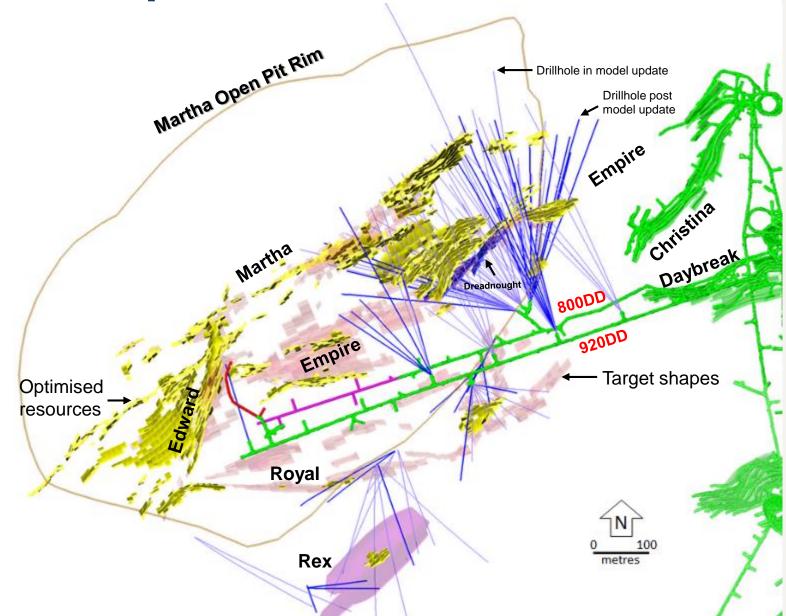
## Waihi Brownfield Exploration

### **Project Martha**

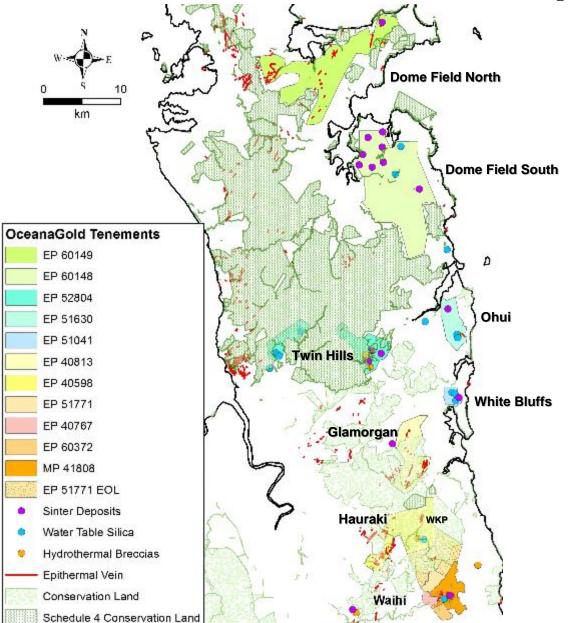
### Martha/Rex Underground

- Drilling
  - 32.2km since Aug 2017
  - 23.1km YTD
  - Q4 forecast 10km
  - 47km planned in 2019
  - Complete drill to inferred
- Models
  - UG model updated Q2
  - Next update Q1 2019

Exploration Target 5-8Mt @ 4-6g/t Au 1.0 - 1.5Moz Au



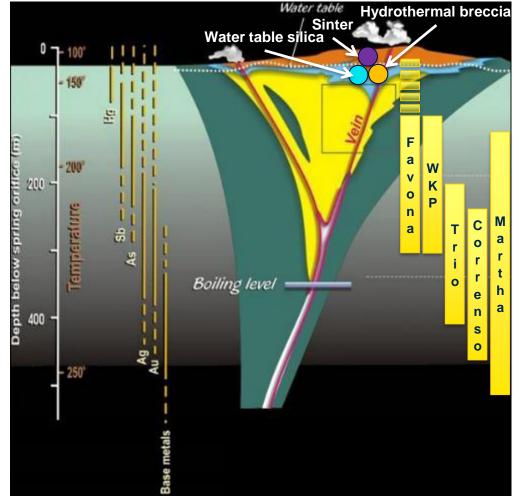
### Waihi Greenfield Exploration



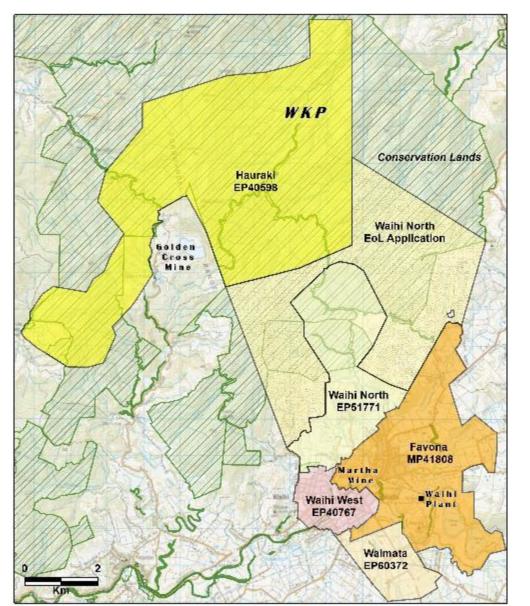
Hauraki Goldfield produced 12Moz Au 52Moz Ag

- Significant potential
- Many untested/under explored epithermal systems

Blind and/or buried



## Wharekirauponga (WKP) Project

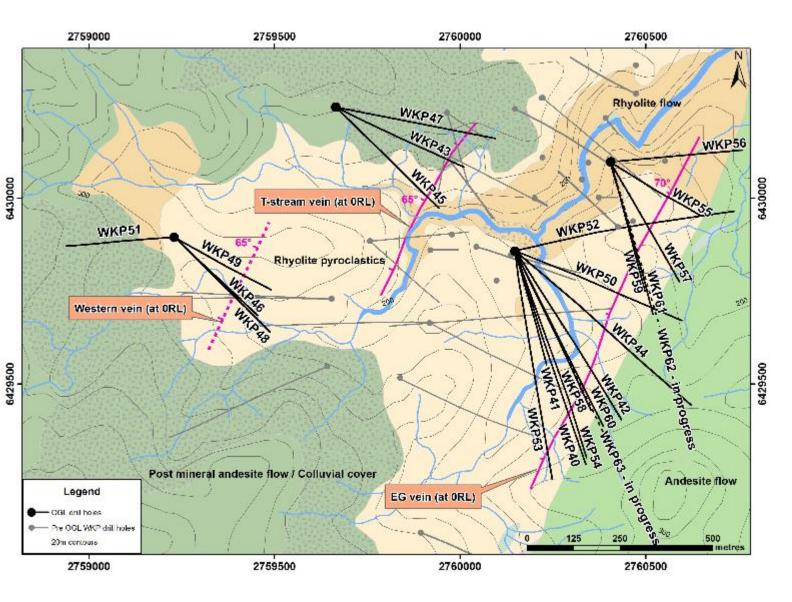


WKP Project Area



Waihi Plant to WKP Flyover

## **WKP Project**



### **WKP**

Q1-Q3 2018

- 8,297meters in 17 holes
- US\$4.6 million

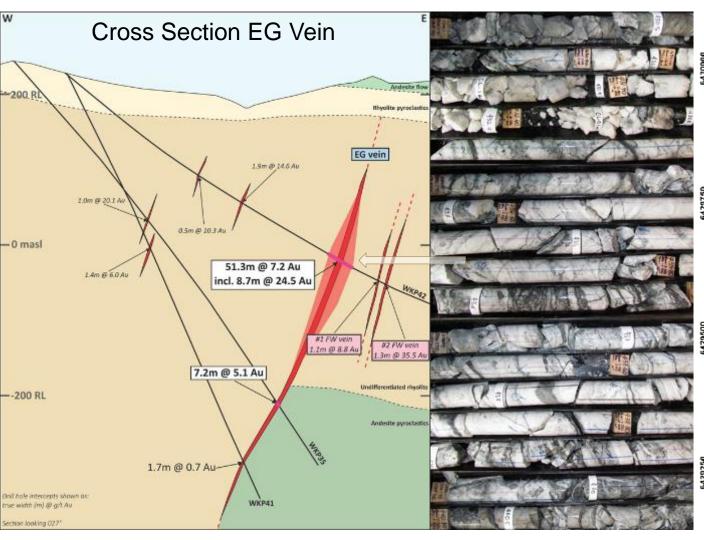
### 2018 Budget

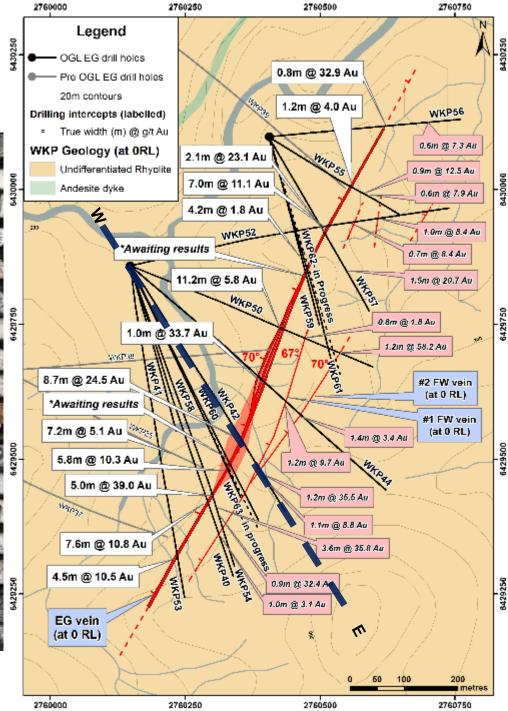
- 12,400 meters
- US\$6.4 million

Infill resource drilling in progress

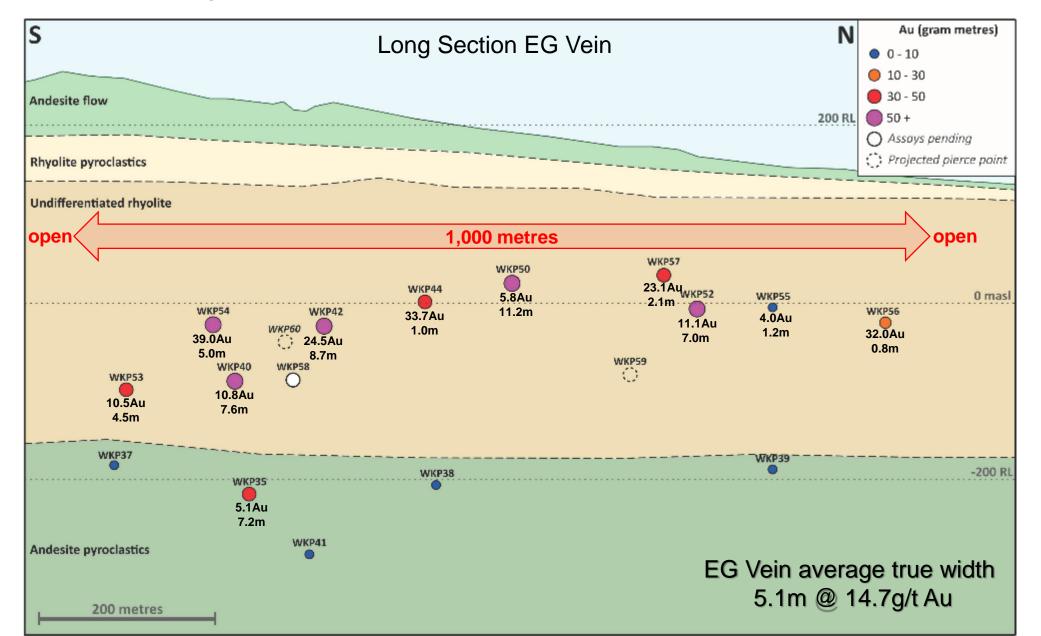
Mining studies in progress

## WKP Project – EG Vein

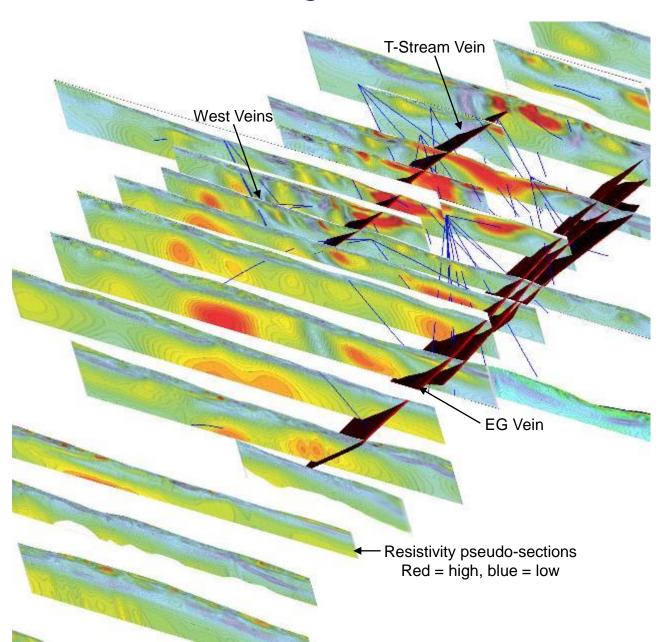




## WKP Project – EG Vein



### WKP Project – Other Prospects



### Significant other intercepts (downhole)

### East Graben HW

- 4.3m @ 7.6 g/t Au
- 2.0m @ 14.6 g/t Au
- 0.7m @ 50.6 g/t Au
- 2.0m @ 19.6 g/t Au

### T-Stream

- 9.7m @ 17.2 g/t Au
- 8.2m @ 6.6 g/t Au

### West

- 3.2m @ 37.0 g/t Au
- 13.2m @ 4.8 g/t Au
- 2.8m @ 8.8 g/t Au
- 4.1m @ 6.0 g/t Au

### Other

- 5.0m @ 13.5 g/t Au
- 13.8m @ 7.2 g/t Au
- 15.0m @ 8.6 g/t Au



### **Corporate Headquarters**

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