

#### **Cautionary Notes**

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#### **Technical Disclosure**

The Mineral Resources for Didipio were prepared by, or under the supervision of, J. G. Moore, whilst the Mineral Resources for Macraes and Reefton were prepared by S. Doyle. The Mineral Reserves for Didipio were prepared under the supervision of M. Holmes, while the Mineral Reserves for Macraes and Reefton were prepared by, or under the supervision of, K Madambi. C. Bautista is Exploration Manager for the Philippines. M. Holmes, S. Doyle, K. Madambi, and J. G. Moore are Members and Chartered professionals with the Australasian Institute of Mining and Metallurgy and each is a "qualified person" for the purposes of NI 43-101. C. Bautista is a member of the AIG and is a "qualified person" for the purposes of NI 43-101. Messrs Holmes, , Doyle, , Madambi, Moore and Bautista have sufficient experience, which is relevant to the style of mineralisation and type of deposits under consideration, and to the activities which they are undertaking, to qualify as Competent Persons as defined in the 2012 Edition of the "Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves" ("JORC Code").

The resource estimates for the El Dorado Project were prepared by Mr. Steven Ristorcelli, C.P.G., of Mine Development Associates, Reno, Nevada (who is an independent Qualified Person as defined in NI 43-101) and conforms to current CIM Standards on Mineral Resources and Reserves.

For further scientific and technical information (including disclosure regarding mineral resources and mineral reserves) relating to the Reefton Project, the Macraes Project and the Didipio 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 El Salvador Project please refer to the reports publicly available on SEDAR (<u>www.sedar.com</u>) prepared for Pacific Rim.

# Didipio Overview

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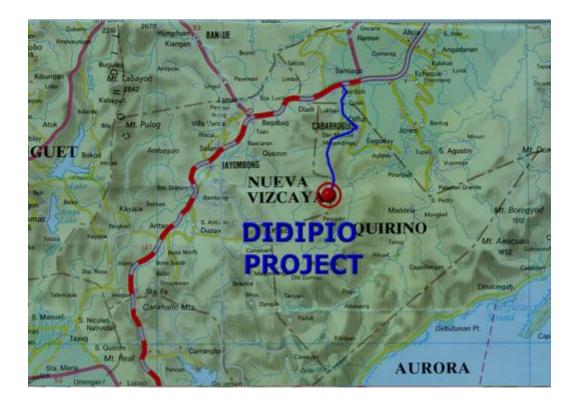
#### **Didipio Mine**



- 1. Reserves and Resources are based on the Didipio Technical Report dated 29 Oct 2014
- 2. Based on Company LOM plan which includes Inferred Resources

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### **Didipio Overview**

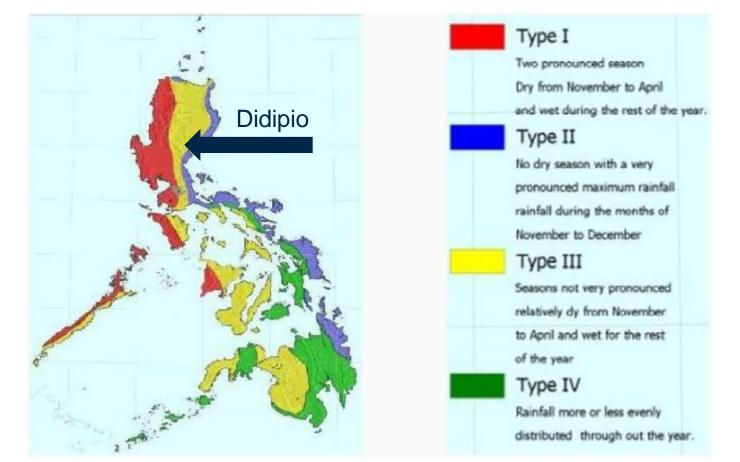


#### Routes:

- Manila to Didipio corresponds to 402 km
- Didipio to Kasibu Bambang is 62 km
- Didipio to Poro Point is 355 km

- Didipio straddles the provinces of Nueva Vizcaya and Quirino
- 270 km NNE of Manila
- 700 metres above sea level
- 22-km gravel allweather access road to site

### **Didipio Overview**



- Didipio is located in a Type III no pronounced maximum rainfall period
- Average annual rainfall at Didipio is 3,051 mm
- Operations planned based on expected rainfall
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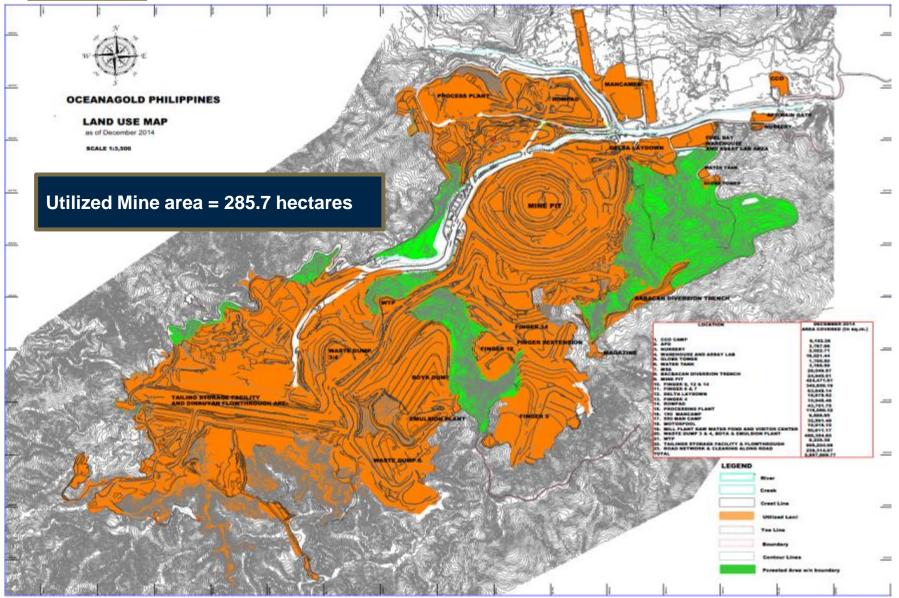
### **Brief History**



- CAMC Exploration Phase (1992)
- Financial or Technical Assistance Agreement (FTAA) No. 001 (1994)
- OceanaGold merges with Climax Mining Didipio acquired in transaction (2006)
- Didipio Project put on care & maintenance during Global Financial Crisis (2008)
- Re-commencement of construction (2011)
- Commissioning of mill with ore (mid-Dec 2012 Apr 2013)
- Commercial production (April 1, 2013)

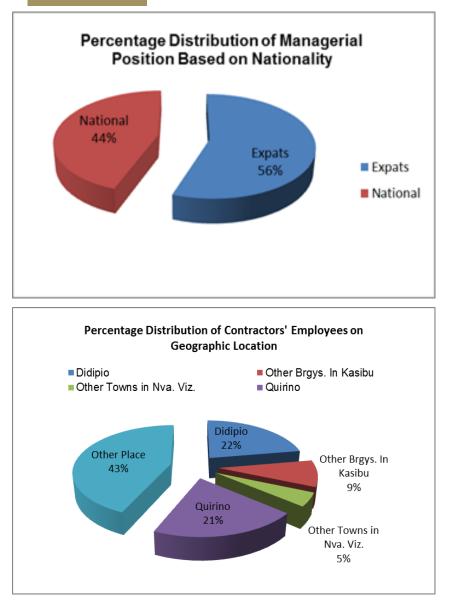
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#### **Site Overview**



**Innovation Performance Growth** 

### **Employee Information & Demographics**



- OGPI Didipio Operations 533
  - Managers 9
  - Others 524
  - Expatriates 29
- Contractors 1,233
  - Delta Mining/Construction 839
  - DiCorp 289
  - Others 105

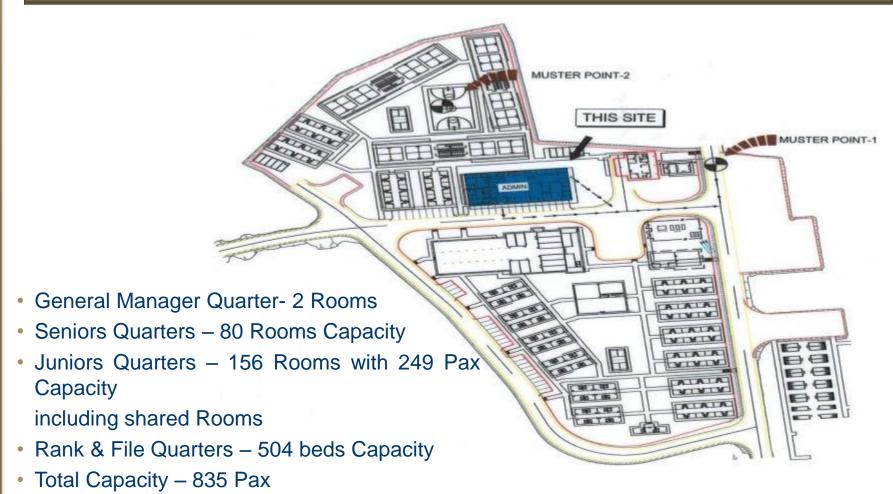
#### **Site Services**

#### Site Services Department comprises of four main areas/teams

Camp Administration	Site Maintenance	Concentrate Logistics	Mobile Maintenance	
<ul> <li>Travel</li> <li>Catering</li> <li>Events</li> <li>DiCorp Management</li> <li>Transport all personnel in and out of mine site</li> </ul>	<ul> <li>Site facilities (e.g. plumbing)</li> <li>Road facilities (e.g. concreting access road)</li> <li>Engineering services</li> <li>Project management services</li> </ul>	<ul> <li>Handles safe &amp; efficient transport of concentrate from site to port</li> <li>Manages 20 company owned trucks + 30 contractor trucks</li> </ul>	<ul> <li>Maintenance to all light vehicles</li> <li>Maintenance on heavy equipment</li> <li>Maintenance on mobile and auxiliary equipment</li> </ul>	

### **Camp Management**

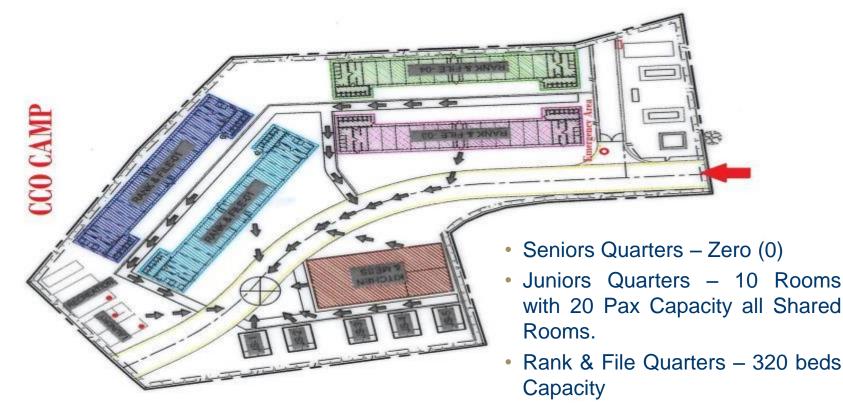
#### Boulevard Camp with 39,815 Sqm



 Average Daily Onsite – 551 people based Feb 2015

### **Camp Management**

#### CCO CAMP With 6,345 Sqm



- Total Capacity 340 Pax
- Average Daily Onsite 175 People based Feb 2015

#### **Didipio 2015 Guidance**

**Gold Production** 

100,000 to 120,000 ounces

**Copper Production** 

21,000 to 23,000 tonnes

Cash Costs<sup>1</sup>

(\$240) to (\$190) per ounce

All-In Sustaining Costs<sup>1</sup>

**\$200 to \$250** per ounce

In 2015, 25% of operating costs are associated with diesel consumption

10¢ / pound change in copper price  $\rightarrow$  AISC margin changes by \$40/oz

10¢ / litre change in diesel price →AISC margin changes by \$30/oz

#### **Average Unit Cost Overview**

		Amount
Open pit mining costs including capitalized mining	per tonne mined	\$2.40 - \$2.50
Processing costs	per tonne milled	\$9 - \$10
Site G&A costs	per tonne milled	\$8 - \$10
Concentrate port, freight & smelting costs	per dry metric tonne shipped	\$300 - \$325

# **2015 Capex**

	Amount	
Sustaining Capital	\$5m to \$10m	
Pre-stripping	\$20m to \$25m	
Underground Mine Development	\$20m to \$25m	
Power grid connection	\$10m	
Total 2015 Capex Budget	\$55m to \$65m	

# Didipio Health & Safety

#### **Safety Performance**



Health & Safety Highlights

No Lost time incidents since December 16, 2014

12 month moving average TRIFR=2.9

1,157,518 man hours/74 days LTI-Free ending February 2015

Increased focus on high hazard activities – Principal Hazard Mgmt Plan

Safety leadership training

**Task observations** 

Health risk management

**INX report and actions management** 

#### **Safety Recognition**

- 2014 Platinum Achievement Award for Surface Mining Category
- 2014 Safest Mining Operation Award Metallic Category
- 2014 Safest Surface Operation Award



# **Asset Protection Department Activities**

- Certified OGPI Fire Brigade Volunteer in Region 2
- 1st National Fire Olympics representing Region 2
- Community Social Programs for Didipio Out of School Youths





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# **Mining Operations**

### **Mining Operations**

- Mining is carried out by Delta Earthmoving
- Contractor performing well and steady production achieved
- Explosives manufactured and supplied to hole by Orica
- Some staff seconded to Delta to improve safety, training and maintenance performance
- Monthly ore and waste movement 2.0 2.2 million tonnes
- Mining Cost: \$2.40 to \$2.50 / tonne mined
- Current stockpiles
  - ROM and HG 0.9 Mt
  - Medium and Low Grade 12.6 Mt
- Focus in 2015 on:
  - Operating cost optimisation
  - Long term slope stabilisation and de-risking

#### **Mining Fleet**

- Fleet consists of:
  - 3 x PC2000 (200-tonne excavators)
  - 3 x 120-tonne excavators
  - 20 x 100-tonne trucks (777D & 785)
  - 9 x dozers (D9 and D8) plus other ancillary equipment
- This year there will be an additional 1 x PC2000 in the fleet and an additional 6 x 785 trucks (100-tonne)
- Open pit workforce consisting of
  - 456 workers
  - 58 supervisors
  - 10 Managers/Superintendents
- Underground expected to advance

# **Didipio Operating Statistics**

		Q4 2014	Q3 2014	Q2 2014	Q1 2014	Year 2014	Year 2013*
Lost time injuries		1	0	1	0	2	0
Gold production	oz	34,783	26,207	14,786	30,480	106,256	66,277
Copper production	t	6,747	7,078	4,706	6,479	25,010	23,059
Total ore mined	Mt	2.52	2.79	1.40	1.67	8.38	8.79
Total waste mined	Mt	4.06	3.79	4.68	4.44	16.98	14.40
Ore mined grade gold	g/t	0.70	0.60	0.47	0.83	0.65	0.58
Ore mined grade copper	%	0.54	0.52	0.48	0.61	0.54	0.58
Mill feed	Mt	0.87	0.85	0.64	0.75	3.11	2.58
Mill feed grade gold	g/t	1.39	1.09	0.80	1.40	1.19	0.94
Mill feed grade copper	%	0.83	0.90	0.79	0.90	0.86	0.98
Recovery gold	%	90.2	88.3	89.4	90.2	89.5	83.0
Recovery copper	%	93.8	92.3	93.3	95.4	93.7	91.5

### **2014 Production Profile**

#### 14,000 12,000 10,000 Ounces 8,000 6,000 4,000 2,000 0 Oct Jan Feb Mar Apr May Jun Jul Aug Sep Nov Dec **Monthly Copper Production** 3,000 2,500 2,000 Tonnes 1,500 1,000 500 0 Jan Feb Mar Apr May Jun Jul Sep Oct Nov Dec Aug

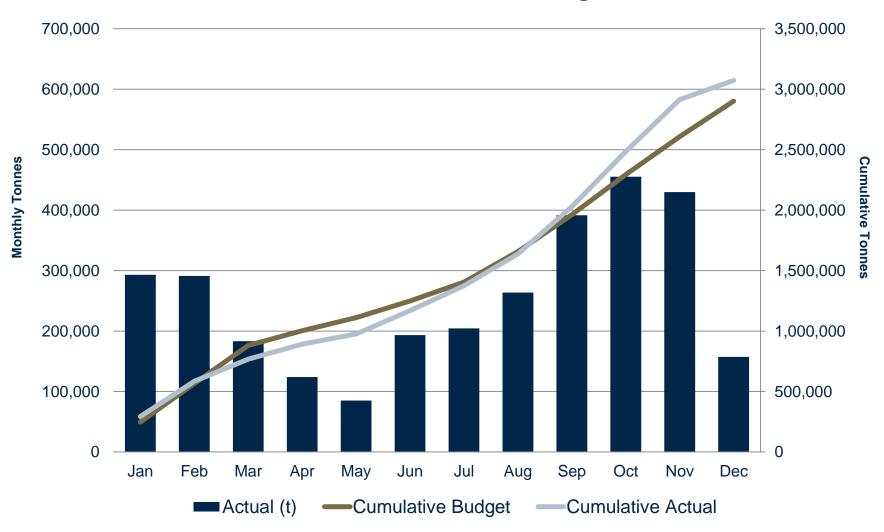
#### **Monthly Gold Production**

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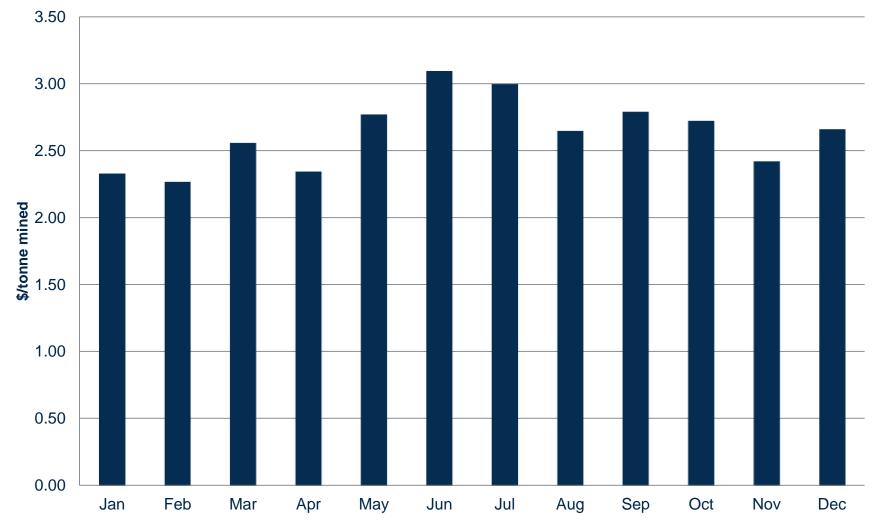
#### **ROM Ore Mined**

#### 2014 – Total ROM Tonnage



### **2014 Mining Cost Actuals**

#### Mining Cost (including pre-strip)



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# **Current Mining Operations**

#### Actively mining stages 3, 4/5, 6.



	Design Strip Ratio	Gold (ounces)	Copper (tonnes)	Remaining tonnes (Mt)	Completion Date
Stage 3	0.26	95,801	11,792	2.2	July 2015
Stage 4/5	2.62	248,035	41,137	29.7	September 2016
Stage 6	3.04	332,052	45,758	46.8	December 2017

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# **Tailings Storage Facility**

#### Building up TSF wall to ultimate capacity



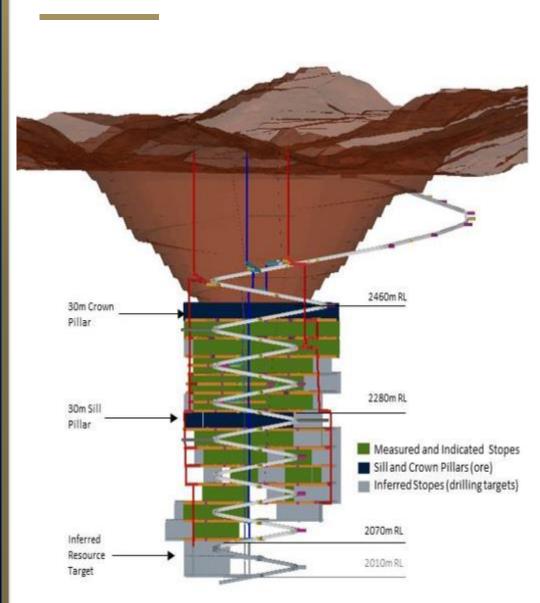
- Current height: RL2780
- Ultimate level: RL2820 est. end of 2018
- Current capacity: 3,108,186 m<sup>3</sup>, ultimate capacity: 4,861,850 m<sup>3</sup> Robust design:
- The ability to construct a clay and filter core dam in an extremely high rainfall area
- Designed for 1 in 1,000 yr maximum rainfall event, Maximum Design Earthquake (MDE), 1:10,000 year stability return
- Flow through dam to reduce the risk of down stream flooding
- Design also keys in to natural ground buttress on three sides of the construction walls
- WRD constructed at the downstream side serving as a buttress for the toe of the dam.

### **TSF Flow Through**

#### Successful Design & Build



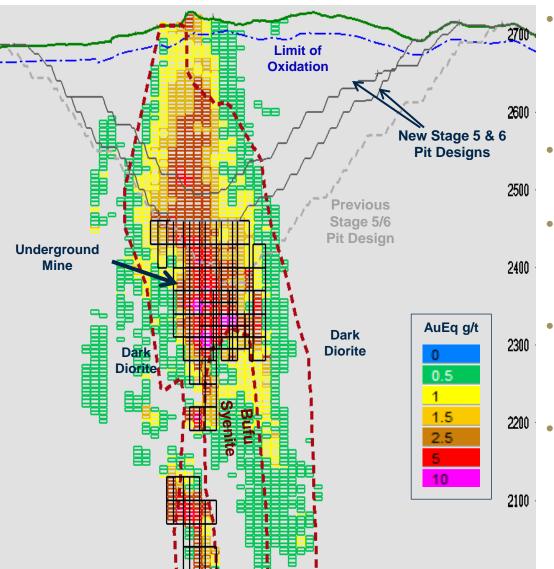
# **Didipio Optimisation Study Highlights**



- Underground development to commence 1 year earlier; now in Q1 2015
- Access to high grade material in late 2017; brought forward by 2 years
- Crown pillar moved higher by 80 m, underground extension to 2010mRL → two mining domains established.
- Increased U/G mining rate to 1.6 Mtpa by 2020 (previously 1.2 Mtpa)
- Optimised mine design resulting in 67 Mt less waste mined from the open pit
- Capex of \$116m for the underground over next 3 years sustaining capex of \$75m over the following 10 years

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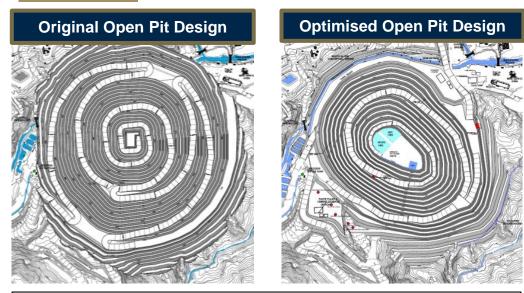
#### **Optimised Design**

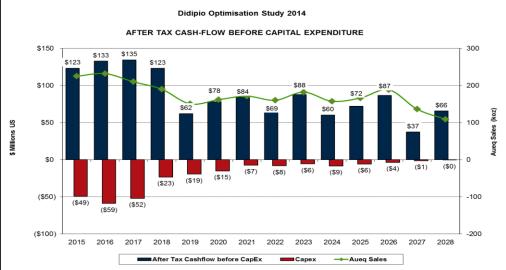


Open pit redesigned to fit geological orientation of the ore body, improve ramp and lift crown pillar

- Open pit mining completed at the end of 2017
- Improved production profile through mining higher grades
- Stronger understanding of geotech and hydrology; revised designs
- Proven & Probable Reserve increased by 180,300 oz Au & 8,480 t Cu

#### **Enhanced Economics**





- Earlier access to high grade underground feed + deferred mining costs  $\rightarrow$ enhanced cash flow profile
- Smaller open pit  $\rightarrow$  \$215 million in cost savings between 2018 and 2020
- Larger underground and higher mining rates → lower unit costs (\$34/t to \$27/t)
- Forecasted after-tax and capex cash flow of \$944 million over life of mine<sup>1</sup>

1. Based on \$1,300/oz gold, \$3.20/lb copper, See Technical Report for additional details OceanaGold Corporation

#### **Underground Development**

- 650 m of geotechnical drilling complete
- Decline designed and services installed
- Equipment and operators on site
- Bacbacan pit wall supported
- Portal constructed
- Decline mining to commence







Bacbacan Ramp Earthworks







Pit Wall Supporting and Portal Construction

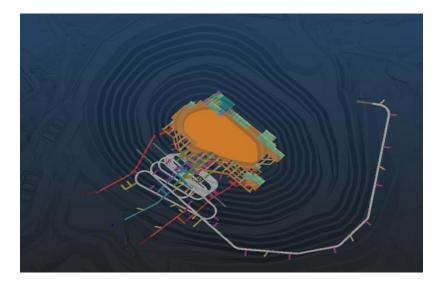
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### **Mining Operations Enhancements**

- Optimized fragmentation and reduced wall damage;
  - Resulting in safer & stable walls
  - Increased crusher & mill throughput
- Increased the bench excavation heights;
  - Optimized digging fleet and bucket capacity
  - Increased excavation production
- Cost Optimisation;
  - Excavation & load and haul
  - Continued drill & blast optimisation

# Mining Operations – Looking forward



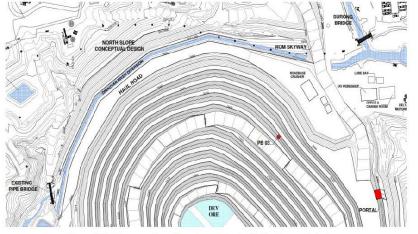


Figure 18-7: Dinauyan River Diversion relative to the final open pit design

- Significant reduction in open pit strip ratio (4.5:1) to 2.7:1)
- Operational optimisation and design improvements ongoing
- Underground commenced
   in Q1 2015
- Further optimisation of underground development ongoing

# Environneut Manageme

# **Environment Management Overview**



**Environment Management Initiatives** 

Didipio Mine EMS ISO 14001:2004 Certified

**Environmental leadership & capacity building** 

Water management

International RiverFoundation partnership

Noise and dust abatement

Sound management of Tailings Storage Facility

**Progressive rehabilitation** 

**Research and development** 

## **Cyanide Free Operation**



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# **Environmental Management System (EMS)**

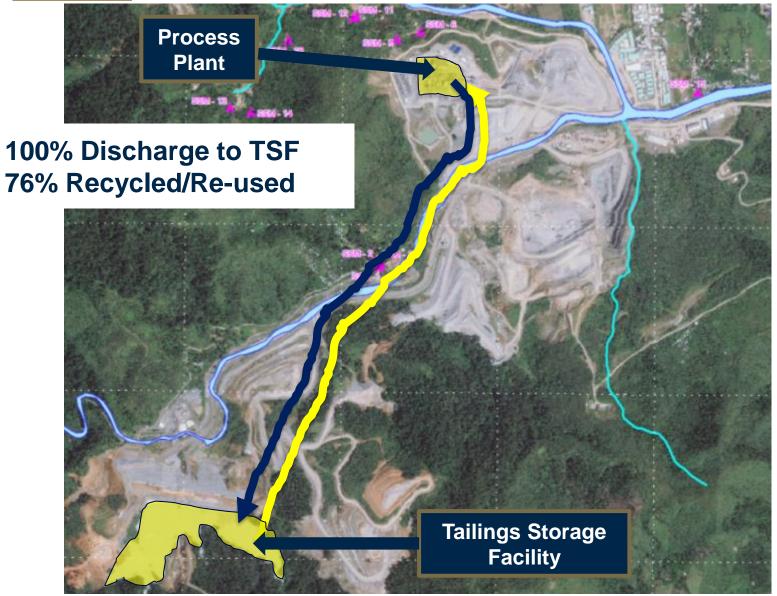


- The Didipio Mine EMS is ISO 14001:2004 certified
- The EMS focuses on the following:
  - 1. Prevention of pollution
  - 2. Compliance with applicable laws and regulations
  - 3. Continual improvement



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### Water Management



## Water Treatment Plant





- Commissioned in August 2014 after 8-month completion
- Built and commissioned by Company workforce
- 34 metre diameter thickener
- 4,500 m<sup>3</sup> capacity
- 2,000 m<sup>3</sup>/hr throughput rate
- Water discharged cleaner than water extracted from river
  - Lower TSS level to < 70 ppm
  - DENR effluent standard is 150 ppm

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# **Guppy fish at TSF and Water Treatment Plant**







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#### **Fish Pond Project**



Pilot testing of Tilapia fish fingerlings, using WTP effluent discharge.

(Photo: 29 October 2014)

Other fish species being tested are Koi and Catfish

# **Open Pit Water Management**



- Dewatering boreholes at pit perimeter are used as clean-water supply for camp and processing plant
- Water used for dust suppression
- Regular water quality analysis
- Treatment of noncompliant water at Water Treatment Facility or pumped to TSF

### **Erosion Control & Slope Stabilisation**





#### **Coco coirs/mats and vetiver grass**





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## **Progressive Re-vegetation**

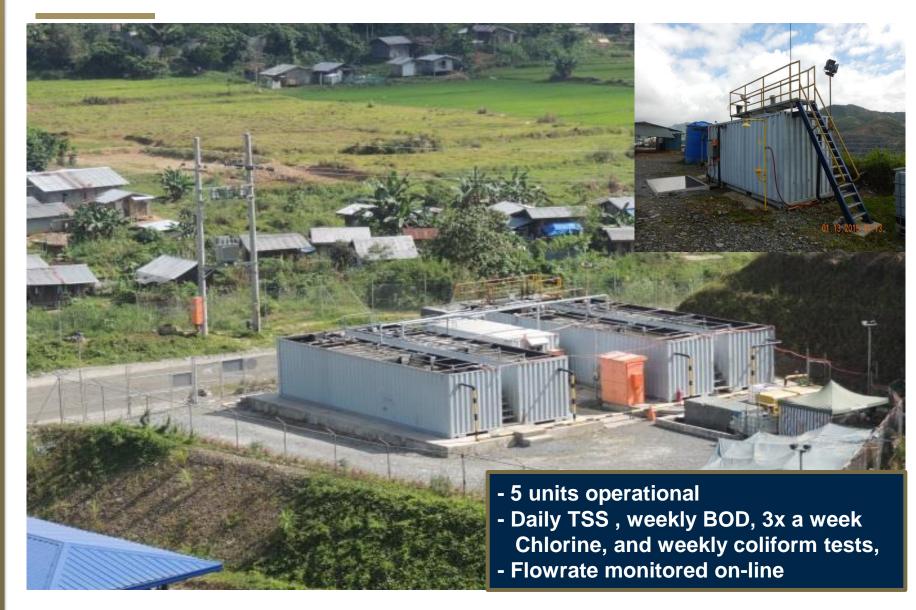






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#### **Sewage Treatment Plants For Domestic Wastewater**



#### **Effective Waste Management**





#### Waste segregation at source

#### In partnership with community





## **Regular Dust Suppression**



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# **Air Quality Monitoring**



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## **Noise Mitigation**



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# **Noise and Vibration Monitoring**





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# **Employee Environment Stewardship**

#### **E-HERO PROGRAM**



# **Small Scale Mining Operations**

Small Scale Mining: A Legacy Community Environmental Issue











## **Biodiversity Monitoring**



Ecological Assessment and Monitoring of Biodiversity in Terrestrial and Aquatic Ecosystems in Didipio Gold Copper Project Nueva Vizcaya, Philippines





### **Environmental Management**

July 2013 - Oceana Gold partnered with the International River Foundation, a Brisbane based environmental NGO that works in partnerships around the world to fund and promote the sustainable restoration and management of river basins. The IRF promotes long term relationships between developed and developing countries focusing on sustainable river system management globally.

Aim of partnership - to create better environmental and social conditions for the people relying on rivers for agriculture, for drinking water and daily needs and to further develop support for community and business partnerships across the Philippines.

**Ultimate Goal** - to qualify the Didipio catchment for the International River prize.



## **Awards and Recognitions**





#### 2014

- Presidential Mineral Industry Environmental Award (PMEIA)-Platinum Achievement Award (Surface Mining Category)
- EMB R2 Plaque of Recognition as National Entry to the 2013 Philippine Environmental Partnership Program (PEPP)

#### 2013

• EMB R2 - Environmental Compliant for the last 3 consecutive years



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