

QUELLAVECO A WORLD-CLASS COPPER PROJECT

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Real Mining. Real People. Real Difference.

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A WORLD CLASS COPPER PROJECT...



...on-track to deliver first production in 2022

WHAT IS QUELLAVECO?

Located at ~3,500m above sea level in south of Peru, 34km from the city of Moquegua



Quellaveco – Key facts and figures…				
	Products:	Copper (molybdenum by-product)		
	Mine:	Open-pit, 1.3Bt Reserves, 0.57% TCu ¹		
view	Returns:	>15% IRR, >20% ROCE, 4-yr payback		
Overview	Workforce:	~14,000 job created at peak construction (~5,600 from local communities) ~2,500 steady state operations		
	Ownership:	Anglo American (60%), Mitsubishi (40%)		
Construction	Construction time:	~4 years from August 2018		
	Commissioning:	First production 2022 Ramp-up during 2023		
onstr	Permitting:	Key construction permits obtained		
ပိ	Capex:	\$5.0-5.3bn (nominal, 100% basis) \$2.5-2.7bn (nominal, attributable to AA)		
	Throughput rate:	127.5ktpd		
Operation	Production:	~330ktpa average first five years ~300ktpa average first 10 years		
	Reserve Life:	~30 years		

Please refer to the AA plc Ore Reserves and Mineral Resources Report 2018 for the tonnes, grades and a breakdown of the classification

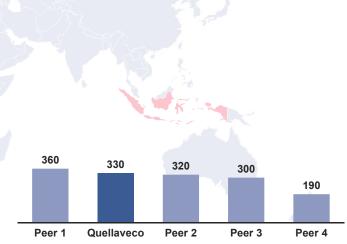
A TIER ONE COPPER ASSET

Mining projects face increasing challenges...

Grade decline	Water scarcity	Permitting	Impurities / conc. quality
Political / fiscal risk	Remote locations	Community expectations	Amongst others

There are only a handful of large-scale copper projects being developed in the world today, Quellaveco is one of the most significant





Average first five-year output for approved large-scale (~200+ ktpa) copper projects expected to come on-line in next five years

Once operational, Quellaveco will be one of the world's largest copper mines, and a major source of supply for an increasingly industrialised world

HISTORY OF THE PROJECT

...developed over >25 years in Anglo American portfolio

2015

FS for 127.5ktpd completed.

All major permits approved.

Independent Project Review completed

2019

Project execution on-track for delivery of first production in 2022

2012

Mitsubishi acquires 18.1% stake of project from IFC

Dialogue Table completed following 18 month process

Main permits approved

2018

FS updated. Investment Assurance review successful

Mitsubishi acquires additional 21.9% stake of Quellaveco from AA

AA approves execution of project

2008

FS revised for 91ktpd. New plant location / water source

2010

Pre-FS completed. 1st & 2nd EIA amendments approved. Early-works initiated

2000

First Feasibility Study (FS) for 64ktpd, and Environmental Impact Assessment (EIA) approved

1992

Anglo American acquisition of Quellaveco

HIGHLY EXPERIENCED LEADERSHIP TEAM





- Anglo American Group Head of Projects
- Previously VP for Investments and Value Management at Newmont
- Extensive experience delivering large scale greenfield projects
- 5 years with Anglo American



Christoff Kuhn
Project Director

- Management and Engineering Professional with 20+ years of experience
- Owner and EPCM project study and execution experience
- Previously Project Director for De Beers' Venetia Underground Project
- 9 years with Anglo American



Peter White

Chief Financial

Officer

- Qualified
 Chartered
 Accountant with
 20 years of
 experience
- Previously served as Financial Controller for Anglo American Copper
- 12 years with Anglo American, having started career with PwC



Tito Cacho
Operations

 Qualified Mining Engineer and MBA with 20+ years of multicommodity experience in the mining industry

· Global exposure

including senior roles at Hudbay Minerals, First Quantum Minerals, Gold Fields and BHP Billiton across three continents



Diego Ortega

Corporate Affairs

- Qualified
 Corporate Affairs,
 Social
 Performance and
 Legal Senior
 Executive with
 19+ years of
 national and
 international
 experience in
- Previously held senior roles in mining law firms and MMG, Gold Fields and Rio Tinto

mining sector



Carlos Dominguez
Human Resources

- 35 years of experience in various industries
 10 years with Anglo American, as Head of HR for Peru
- Previously held senior HR management roles with other Peruvian mining companies including Milpo and Yanacocha



Juan García- Montufar Legal

- Lawyer with 28 years of experience in the various fields of corporate and mining law.
- 9 years with Anglo American, as Legal Manager for Peru
- Previously, he worked as a partner at Estudio Rubio Leguía Normand and legal manager of Indecopi.

MINING IS IMPORTANT TO THE PERUVIAN ECONOMY

The world's second largest producer of copper, with mining accounting for ~10% of GDP

- Small developing economy
- Democratic, centre-right politics with understanding of the importance of mining to the national economy
- 60% of exports come from mining...



Importance of the Project acknowledged by Central, Regional and Local government

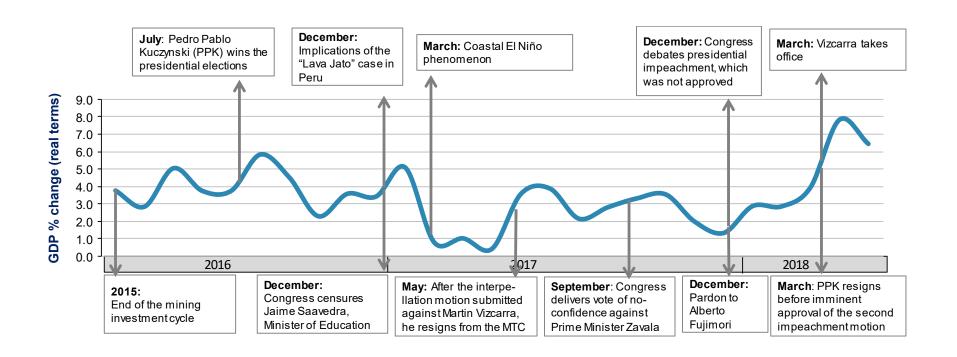
Central government	Government supports project executionLegislation supports mining
Regional / Local government	 Acknowledges importance to regional economy Expectant and supportive Continuous engagement

The south of Peru is an established mining location

- Fastest growing copper producing region in Peru
- Hosts many of the world's foremost mining companies
- Established infrastructure and skilled workforce
- Clear policy and regulatory framework
- Expectation management is key

RESILIENT ECONOMIC GROWTH

Peru has seen positive economic growth in spite of "El Niño", corruption scandals, and political crises



Source: Central Bank of Peru, Apoyo Consultoria

QUELLAVECO: A MAJOR CONTRIBUTOR TO PERU

Employment



- Largest employer in Moquegua:
 ~5,600 local people employed on project, >90% of unskilled workforce
- Top 10 employer in Peru: ~14,000 people employed in total
- Training: ~1,200 local people on "Developing capabilities for the future" program, developing skills to work across a range of industries

Procurement



- ~\$50-75 million purchased from local suppliers
- Local procurement prioritised
- Goods and services purchased from >300 local suppliers
- Supplier fairs, bringing contractors together with local suppliers

Economy



- Total investment in Quellaveco represents twice the total GDP of Moquegua
- Once operational, Quellaveco will represent ~12% of Peruvian copper production, a ~6% increase...
- ...and will add ~3% to income from copper exports
- As well as contributing direct taxes for regional communities through canon

Water infrastructure



- Community water requests prioritised in project development plans
- Vizcachas dam to deliver better quality and consistent quantities of water to Moguegua and Tambo regions
- Water for mining operations to mainly come from water not fit for human, livestock or agricultural use due to naturally high salt, boron and arsenic
- ~\$400 million to be invested in water infrastructure during construction phase

Social investment



- Programs focused on education, local enterprise, rural development, water and the environment
- Develop Moquegua into the mining technology hub in Peru. ~\$10-15 million to be invested in a Technical Institute to create a centre of excellence
- Training for operating / maintenance of mining and construction equipment for local community
- Internship for local university students (~70% female participation)
- Training courses to improve negotiating, administrative and management skills
- · Support for small local farmers
- ~\$300 million to be invested in social projects over next 30 years, of which ~\$30 million recently brought forward to construction stage

COMMITTED TO WORKING WITH LOCAL COMMUNITIES

Dialogue Table focused on three key areas...

Water Supply and optimal use of water resources

Environment

Compliance and monitoring of environmental

commitments



Local stakeholders Sustainable development projects



...with firm commitments

26Agreements directly from the Dialogue Table

31
Bodies from 3 different municipalities

~\$300m

Community investment commitment over next 30 years

LICENCE TO OPERATE TO UNDERPIN PROJECT SUCCESS

Sustainability at the heart of Anglo American purpose, central to Quellaveco's development

Safety and Health

Safety

- Comprehensive health and safety programme based on principles and values of Anglo American and Fluor
- Zero-harm objective

Health

- Support health and sanitation, and assist communities in obtaining access to required services
- Support reduction of malnutrition, infant mortality, and improvement in living conditions
- Joint effort to fight anaemia



Environment

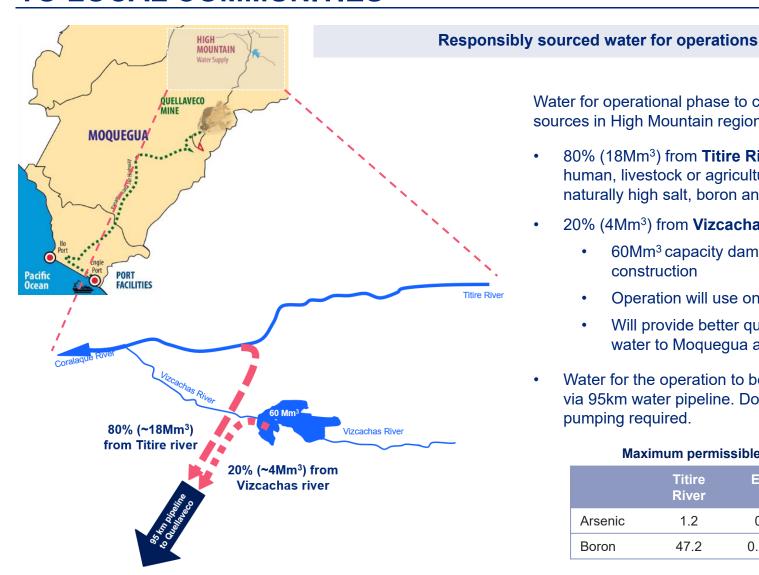
Policy & Programme

- Robust environmental programme
- Environmental controls and water scheme reviewed and accepted by local communities
- Regular, scheduled monitoring of air, water, noise, flora and fauna in place with local residents' participation
- Segregate waste, establish recycling and manage the proper disposal of waste
- Full compliance with commitments and no major incidents to date



Evaporation balls on water ponds to prevent loss of water

DELIVERING IMPROVED QUALITY AND VOLUME OF WATER TO LOCAL COMMUNITIES



Water for operational phase to come from two sources in High Mountain region:

- 80% (18Mm³) from **Titire River**: unfit for human, livestock or agricultural use due to naturally high salt, boron and arsenic
- 20% (4Mm³) from Vizcachas reservoir:
 - 60Mm³ capacity dam and reservoir under construction
 - Operation will use only 4Mm³ p.a.
 - Will provide better quality and volume of water to Moquegua and Tambo regions
- Water for the operation to be transported to site via 95km water pipeline. Downstream flow, no pumping required.

Maximum permissible limit (ppm)

	Titire River	ECA ¹	FAO ² , WHO ³
Arsenic	1.2	0.05	0.05
Boron	47.2	0.5 - 6	0.5 - 6

QUELLAVECO: QUALITY AND OPPORTUNITY

- Structural cost advantages resulting in Q1 cost position
- High grade secondary ore in initial years, enabling quick payback
- Quality concentrate (high grade, low impurities) – attractive for Chinese smelters

Favourable geology

In-depth knowledge of project

- In-depth understanding of project gained over >25 years
- Quality feasibility study
- Substantial early-works completed prior to project approval

Future exploration potential

Shared risk and reward

- Favourable mineralisation characteristics
- Open to north, south and at depth
- Significant potential and several prospective anomalies

- Excellent partnership with Mitsubishi
- Valuation substantiated through 2018 syndication
- Working with Fluor, a leading EPCM partner

ATTRACTIVE GEOLOGY: HIGH GRADE ORE IN 4 YEAR PAYBACK PERIOD

...with high degree of confidence in ore body

First five years: ~330ktpa production 0.84% TCu grade >90% Proved Reserves





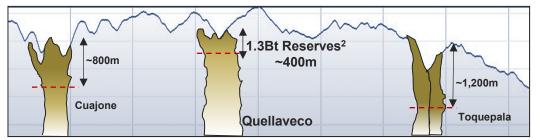
In payback period: Softer, near-surface, easily accessible high-grade secondary ore

30-YEAR RESERVE LIFE WITH SIGNIFICANT POTENTIAL

Favourable mineralisation characteristics

4,000m above sea level

2.000m above sea level

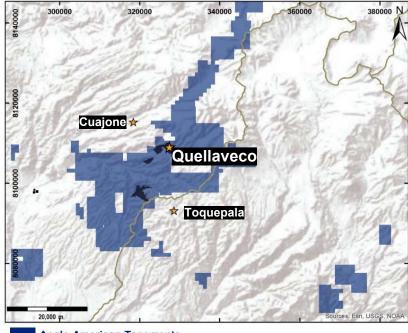


Mineralisation open at depth, to north and to south

Neighbouring mines operating >40 years and 2-3x deeper

Quellaveco at start of its resource journey

Quellaveco licence area: significant potential and several prospective anomalies



Anglo American Tenements

STRUCTURAL COST ADVANTAGES

Ore body uncovered through erosion by Asana River, leading to low strip ratio of 0.8x



STRUCTURAL COST ADVANTAGES: LOW-COST MINING

Open-pit operation, with optimal design based on latest resource block model

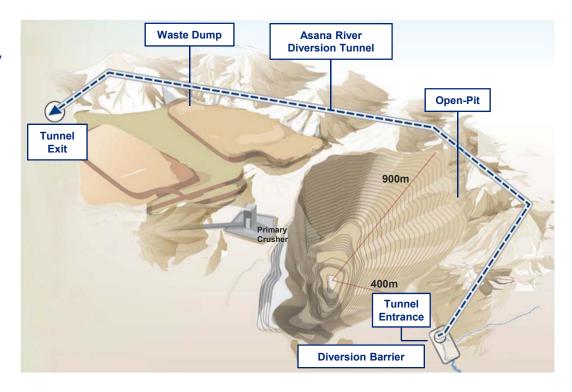
Low strip-ratio

- Ore body uncovered through erosion by the Asana River...
- ...leading to low strip ratio of 0.8x (LOM)

Efficient hauling

- · Central location of primary crusher...
- …leading to short haulage distances, with downhill loaded cycle for most of first ten years

Competitive labour and power costs



WHAT ARE WE BUILDING...

Construction on-track for first production in 2022

Tailings Dam

Downstream method, designed and reviewed by world-leading experts



Temporary Facilities

- Workers camp
- Concrete batch plants



Infrastructure

- Port expansion
- Power lines and substation
- Access roads





High Mountain Water

- Vizcachas River: dam and reservoir
- 95km water pipeline to transport water to plant

Quellaveco Mine

- Asana River diversion system
- Pre-strip of ~50Mt



Papujune Plant

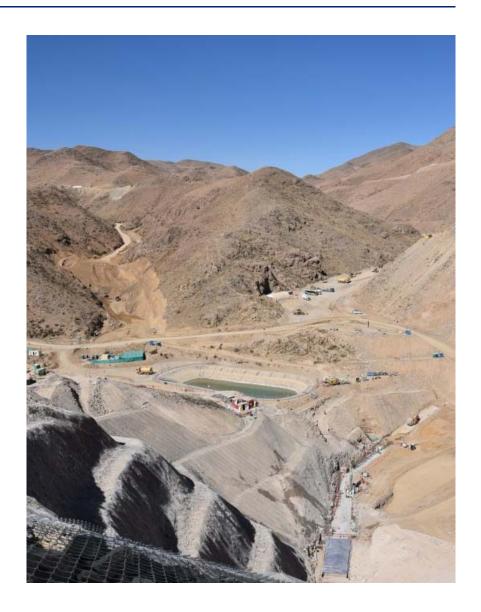
- Conventional processing plant
- Two grinding lines: one SAG and one Ball Mill each, with space for third line



INDUSTRY LEADING DAM SAFETY MANAGEMENT

Quellaveco tailings safety management

- Downstream method of construction applied; earthfill starter dam, followed by compacted cycloned sands, per our industry-leading standards
- ~1.3 billion tonnes storage capacity
- Rigorous independent reviews by a number of world leading tailings dam construction experts
- Water to be recovered and returned to processing plant, with recycling industry target of less than 0.4 m³ per tonne
- Latest technology in dam monitoring to be applied, including satellite radar, drone inspections, in-situ fibre optic instrumentation, and dedicated seismic instrumentation monitoring
- Internal dedicated Quellaveco governance structure will be set up for dam monitoring, surveillance, Quality Assurance / Quality Control, and training of site personnel
- Research program and collaboration with Canadian instrumentation company and Peruvian University planned to start in 2020
- Toured the three largest dams in the world to learn operating practises



KEY ACHIEVEMENTS TO DATE

Project execution on-track



- ✓ Engineering well-advanced
- Contracting and procurement nearing completion
- ✓ Long-term low-cost power supply agreement in place
- √ ~14,000 workers employed today, ~5,600 from local community

All major milestones achieved on time...



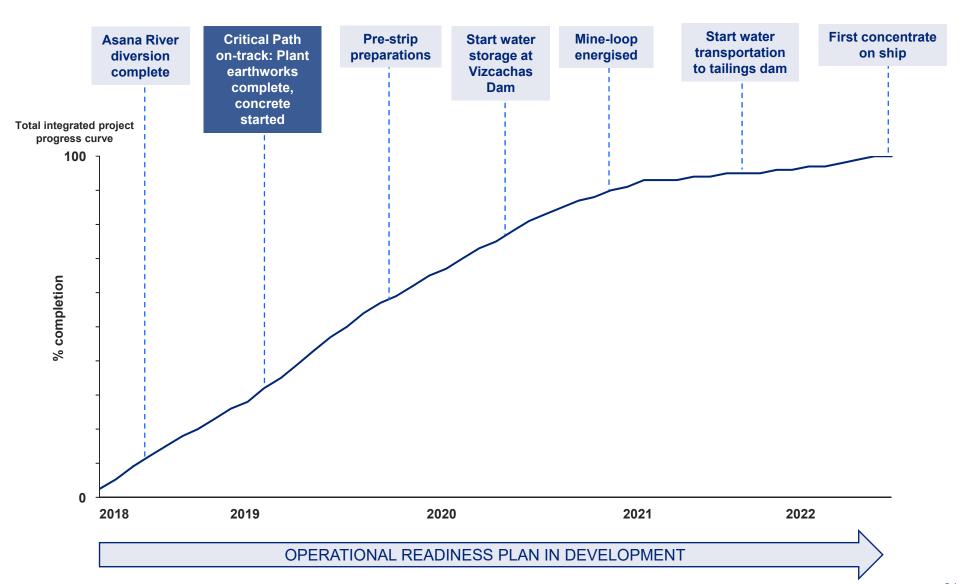
- ✓ All work areas mobilised
- Asana and Vizcachas River diversions complete
- ✓ Main Access Road
- Workers camp and multipurpose building complete
- ✓ Plant earthworks complete
- Mass concrete placement at plant site begun

...and on-track for next set of milestones



- Structural steel pre-assembly
- Tailings starter dam
- Tunnel excavations for overland conveyor
- Preparations for pre-stripping on-track
- · Vizcachas Dam progressing

SCHEDULE TO COMPLETION



QUELLAVECO IN NUMBERS



>14,000
workers employed at peak construction





+\$300m social investment over 30 years



2.5 million metres of cabling









50 million tonnesPre-stripping



310,000m³ of concrete



7.8km river diversion system



8.7 million
evaporation balls on ponds
to prevent water loss



water dam being built



>60,000
Individuals from protected species rescued