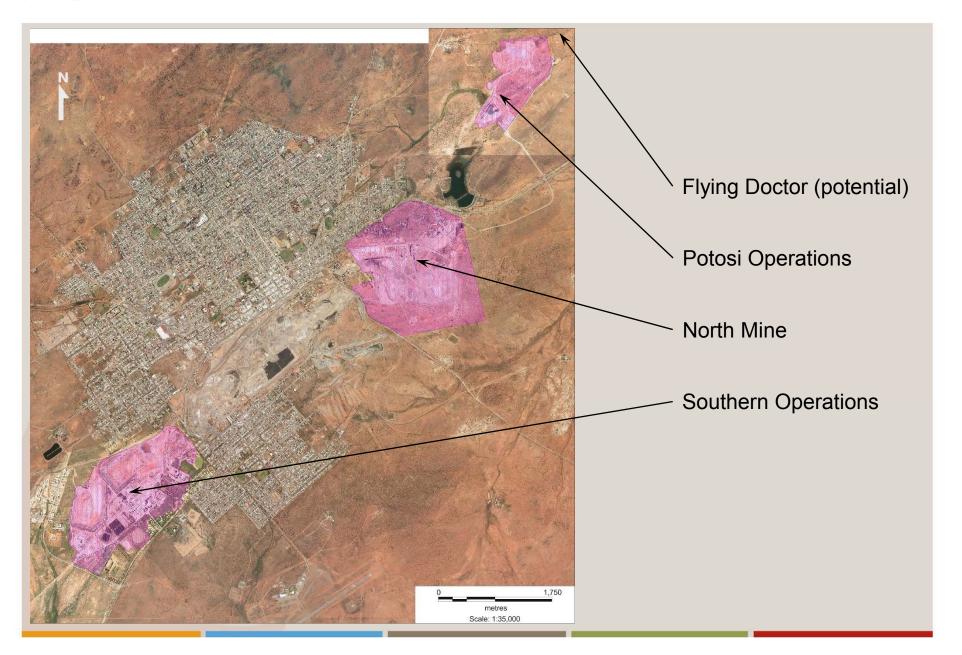




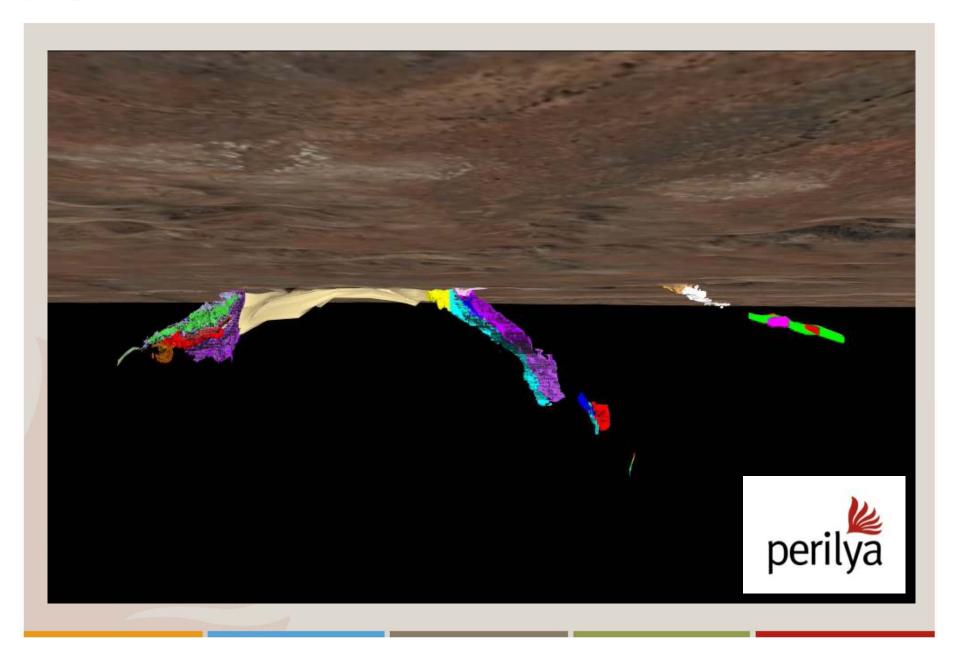


Perilya Broken Hill



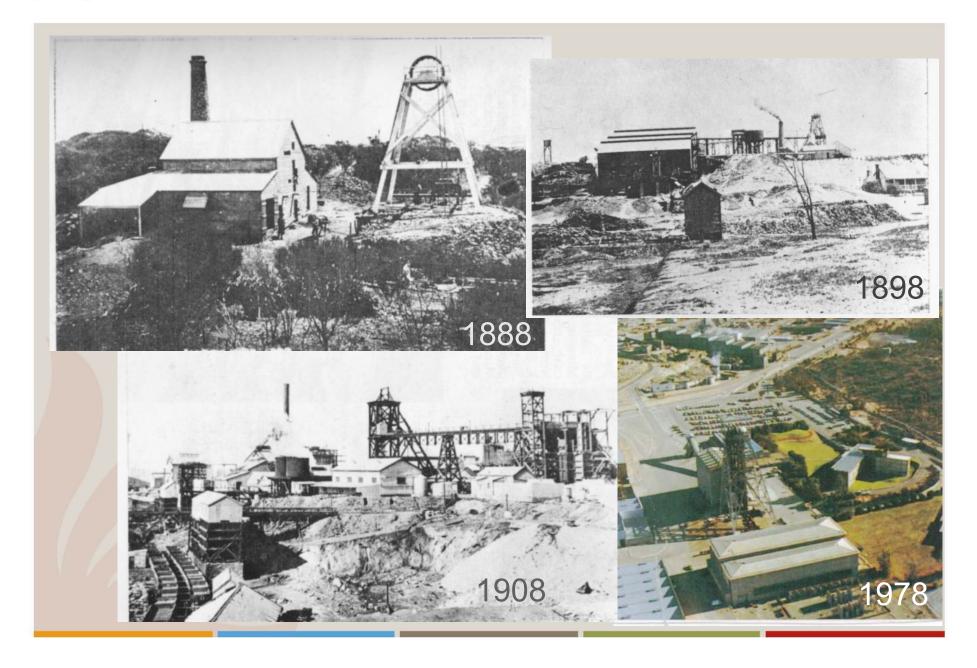


The Line of Lode





North Mine



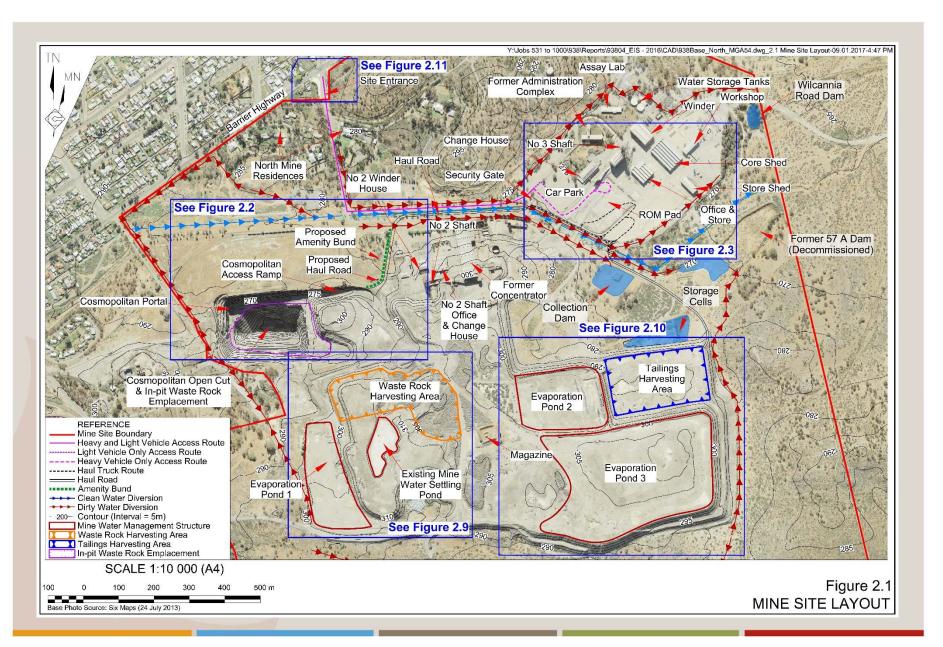


North Mine

Date	Owner	Comment	
1883	Julius Nickel and James Anderson	Pegged Mining Lease 17. The mine at this stage was known as the Cosmopolitan.	
1885	Broken Hill North Silver Mining Company Limited	Became known locally as the 'North Mine'.	
1888	North Broken Hill Silver Mining Company	Company was restructured. During subsequent expansions, Block 43 was acquired and the company was quick to set up a mill and shaft sinking operation.	
1912	North Broken Hill Limited	Another company restructure As the company expanded, lease holdings were pushed northwards from ML17 to: No.1 Shaft which was worked between 1900-1910; No.2 Shaft which was set-up in the 1930s; and No.3 Shaft which was set up in the 1950s. During this time of expansion, North Mine acquired the Junction North and British BHP leases as well as plant and equipment.	
1988	Pasminco Limited	North Broken Hill Limited joined a merger with the Australian Smelting an Mining Company in 1988 to form Pasminco Limited. Mining ceased at the North Mine on 19 February 1993. Plans occurred in 2000 to recommence operations at the North No1 pit to extract a single longhole stope.	
2002	Operations re-opened in 2003 with ore crushed at North Mine and transported by rail to Southern Operations for processing. North Mine placed under Care & Maintenance following operational restructuring in August 2008. Two programs of diamond drilling targeting zinc-rich underground taiwere undertaken from the North No1 pit decline in 2009 and 2010.		
2016	Perilya	Commencement of reopening North Mine with LOM to 2030	



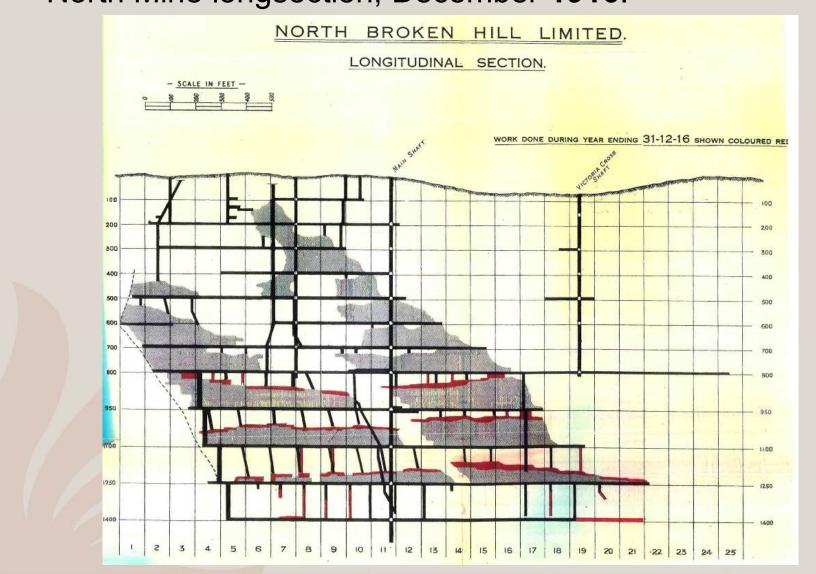
North Mine





North Mine History

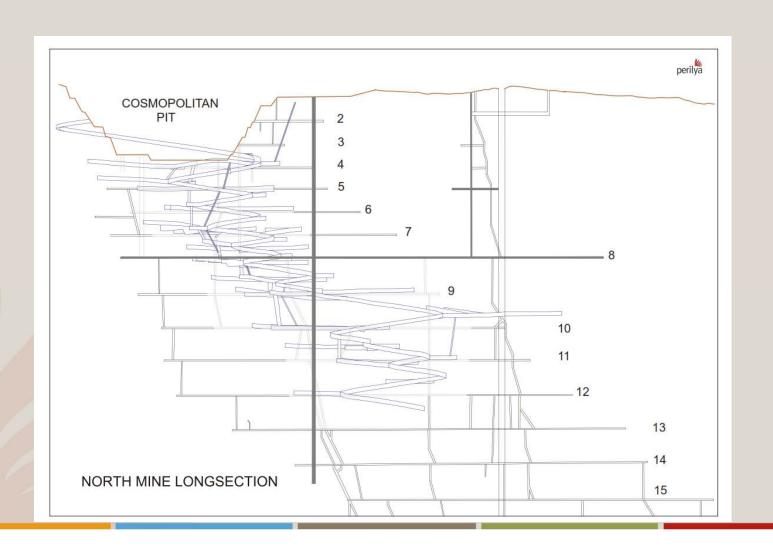
• North Mine longsection, December 1916.





North Mine History

• North Mine longsection, December **2016**.





Reopening North Mine - The Journey

Date	Date Comment	
March 2015	rch 2015 PBH commenced reviewing the reopening of North Mine	
July 2015	July 2015 Proposal to reopen North Mine presented to Zhongjin board	
Aug – Nov 2015	ug – Nov 2015 North Mine study undertaken in conjunction with the Chinese Chansha Institute	
Dec 2015	Zhongjin approve North Mine project RW Corkery engaged to facilitate approvals process	
January 2016	Work commenced on Preliminary Environmental Assessment (PEA) and dewatering permits including transfer of water to Southern Operations	
Feb 2016	PEA submitted to Department of Planning and Environment (DPE)	
April 2016	Interim Mine Operating Plan (MOP) granted, the MOP allowed for commencement of exploration activities, 20kt bulk sample and refurbishment/rehabilitation activities	
May 2016 Environmental Assessment Requirements (EARs) received from DPE		
May 16 – Jan 17 Environmental Impact Statement (EIS) developed and submitted for adequacy to DPE		
Feb – Mar 2017	EIS on exhibited and comments invited by DPE, application made to extend MOP	Ī
March 2017 Agency and community submissions regarding EIS received from DPE, North Mine MOP extension received allowing for ongoing exploration activities		
Mar – Sept 2017	Resp <mark>o</mark> nse to submissions (RTS) developed and submitted to DPE and agencies	
October 2017	Agency feedback on RTS received	
November 2017	Second round of RTS developed and submitted	
22 December Notice of Determination, Secretary's Environmental Assessment Report (SEARs) and Conditions of Consent (CoC) received		
Jan – May 2018	Working through CoC, agency consultation, development and submission of draft management plans, responding to agency feedback on draft plans, design of physical CoC items including covered negative pressure ROM, roads, evaporation ponds	



Barrier Daily Truth

Front page BDT, Wednesday 19 October 2016:



This new \$2 million dollar piece of equipment was purchased by Perliya to help with the operations of the soon to be re-opened North Mine.

PICTURE: Daniel Stringer

North to reopen



CoC - Prior to Construction

Management plans, CoC items required prior to Construction commencing:

Item	Description	Status DPE agreed to the submission of a Construction Environmental Management Strategy - r2 Submitted for approval		
a)	Environmental Management Strategy			
b)	Air Quality Management Plan	DPE agreed to the submission of a Construction Air Quality Management Plan – Submitted and responded to by agencies r1 nearing submission		
c)	Noise Management Plan			
d)	Water Management Plan	DPE agreed to roll these plans into single		
e)	Historic Heritage Management Plan	Construction Environmental Management		
f)	Plan – r1 Submitted for approval			
g)	Meteorological Monitoring			
f)	Community Consultative Committee	Here we are!		
h)	Web Site Update	Ongoing		

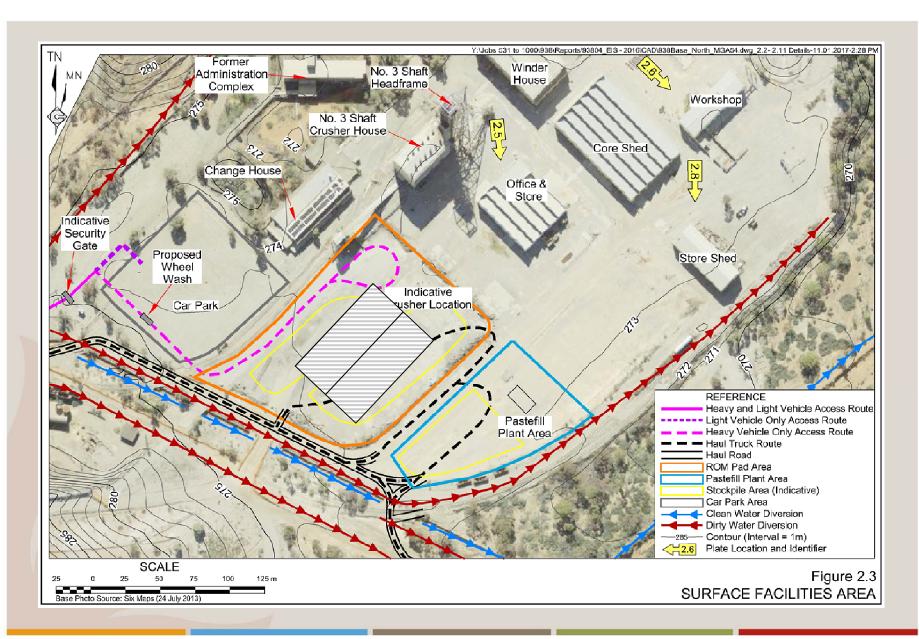


CoC Physical Requirements - Construction

Item	Description	Status
a)	Install wheel washing stations at all access and egress points	On site
b)	Seal the haul road between the entrance to the mine portal and the ROM pad, and ensure that the width of the sealed road permits trucks to pass, or includes sealed passing lanes	
c)	Install a water spray system alongside the haul road from the tailings harvesting area to the pastefill plant, and operate this system when the road is used by trucks transporting tailings To be installed	
d)	Ensure that trucks transporting tailings cover their loads at all times Inst	
e)	Apply a chemical dust suppressant (in accordance with an approved program) to all 'free areas' identified in the figure in Appendix 2 to achieve an emission control factor of 99.3% determined	
f)	Enclose the crusher and ROM pad (including all stockpile areas) within a building equipped with a negative pressure dust extraction and collection system, and ensure that ore crushing, stockpiling and the unloading/loading of trucks only occurs within the enclosed building	
g)	Install a variable speed drive fan within the No. 3 vent rise with a maximum ventilation flow rate of 235 m3/second, and ensure that the fan is operated at the minimum rate required to ensure safe operations. To be installed	
h)	Amenity bunding of sections of haul road To be constructed	
i)	Lined evaporation ponds, deigned to maintain > minimum freeboard To be	

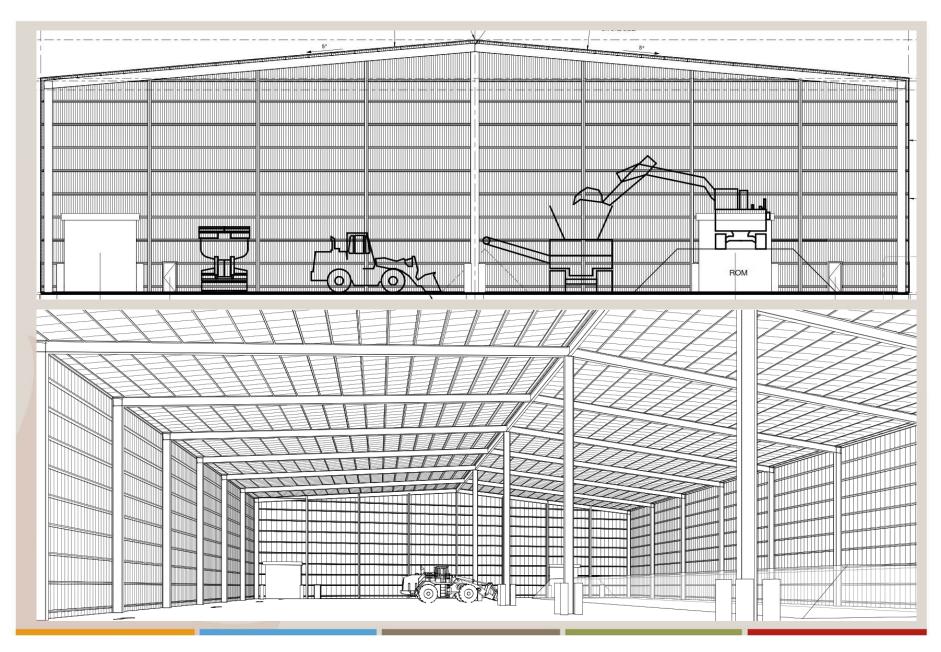


ROM Pad



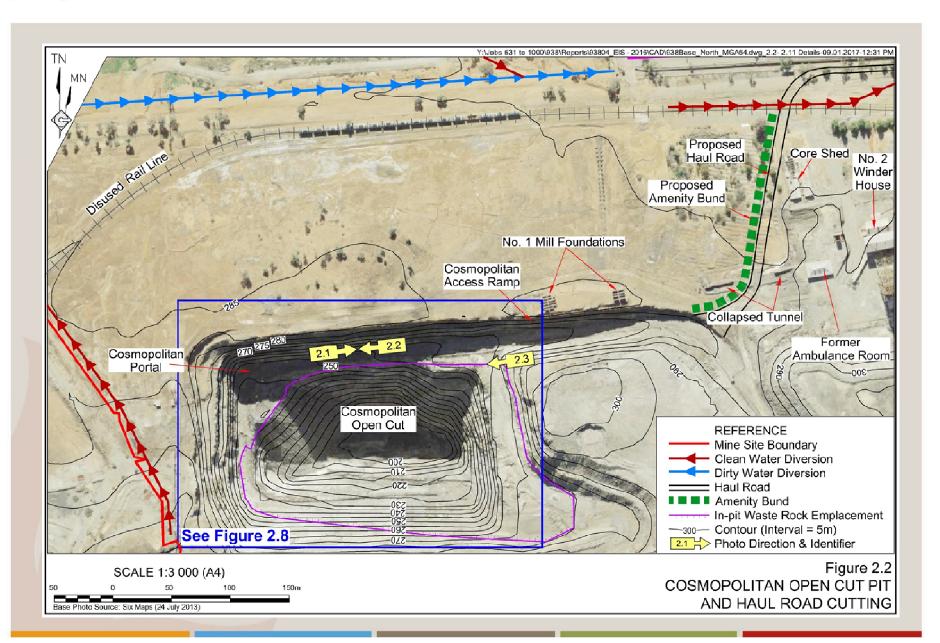






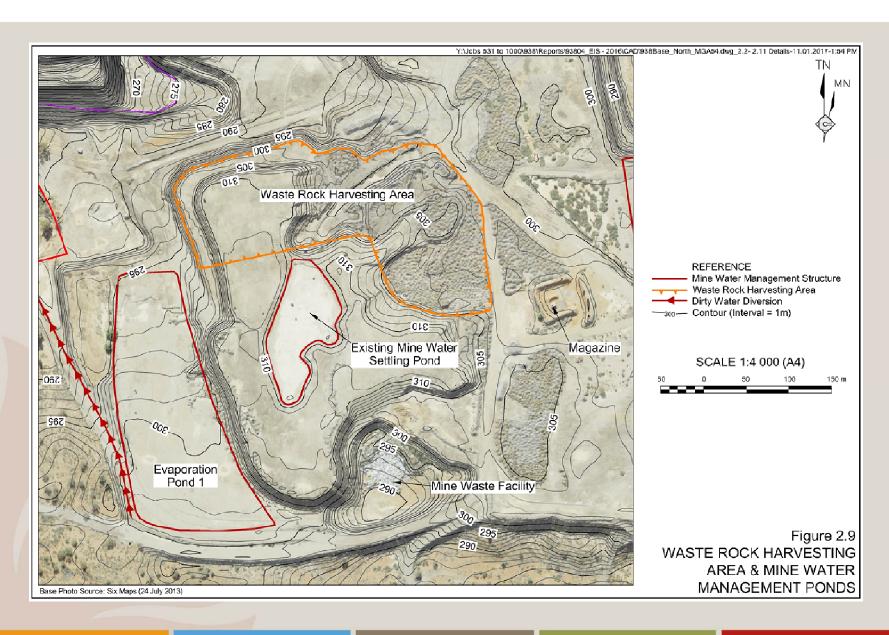


Road Way - Amenity Bunding



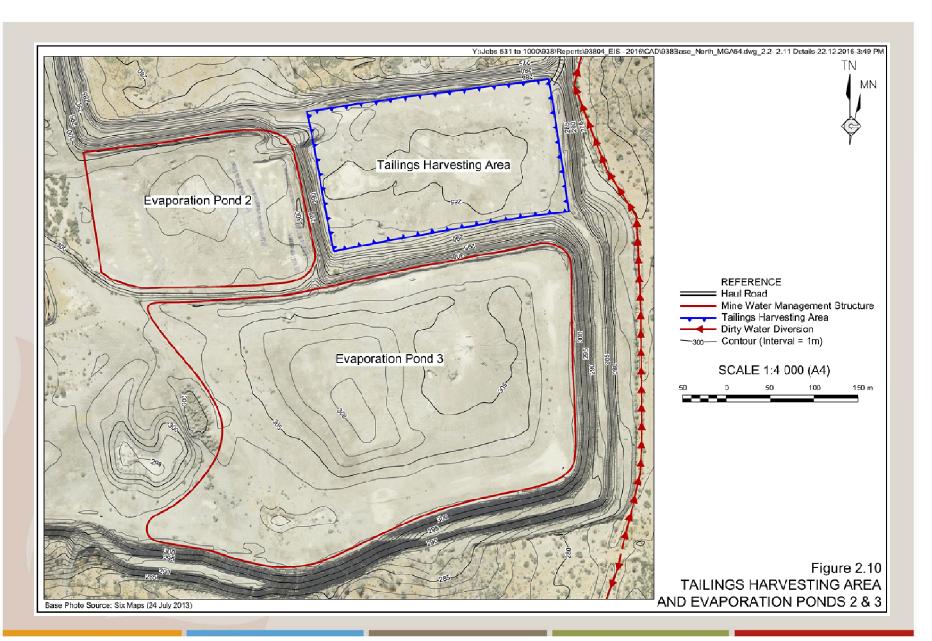


Evaporation Ponds



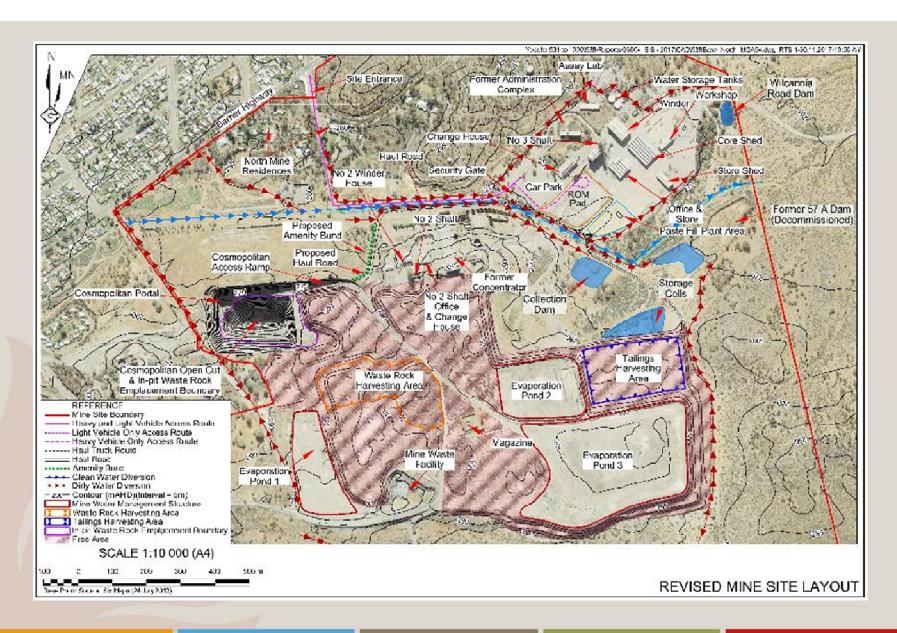


Evaporation Ponds





Free Areas





CoC - Prior to Mining Operations

Management plans, CoC items required prior to Mining Operations commencing:

Item	Description	Status		
a)	Environmental Management Strategy	To be finalised and submitted		
b)	Air Quality Management Plan	To be finalised and submitted		
c)	Noise Management Plan	To be finalised and submitted		
d)	Water Management Plan	To be finalised and submitted		
e)	Historic Heritage Management Plan	To be finalised and submitted		
f)	Chance Finds Protocol	To be finalised and submitted		
g)	Meteorological Monitoring	To be finalised and submitted		
f)	Blast Management Plan	To be developed and submitted		
h)	Lead Monitoring and Education Program	To be developed and submitted		
i)	Transport Management Plan	To be developed and submitted		
j)	Road Upgrade Works	To be undertaken		



CoC - Post Operations

Management plans, CoC items required post operations commencing:

Item	Description	Timeframe	
a)	Independent Environmental Audit	1 year after commencement Construction	
b)	Independent Audit of Air Quality Management Plan	1 month after commencement Mining Operations	
c)	Independent Audit of Health Management Plan	1 month after commencement Mining Operations	
d)	Updated Health Risk Assessment	6 months after commencement Mining Operations	
e)	Rehabilitation Strategy	1 year after commencement Mining Operations	
f)	Rehabilitation Management Plan	6 months after acceptance of Rehabilitation Strategy	



North Mine Project

Works undertaken project to date:

Description

Electrical infrastructure upgraded

Change rooms, crib room, office and workshop facilities upgraded

North wall of Cosmopolitan Pit scaled and meshed

Cosmopolitan decline rehabilitated, portal to face

4 level bypass developed, completed

Decline and exploration platforms developed

Diamond drilling programs undertaken

20kt ore bulk sample produced

New equipment purchased, 3 x Jumbos, 1 x Longhole Drill, 2 x Loaders, 2 x Trucks, 1 x Charge Car

Commenced dewatering North Mine via No3 shaft - 29 April 2018

Currently 51 workers plus a large number of contractors employed



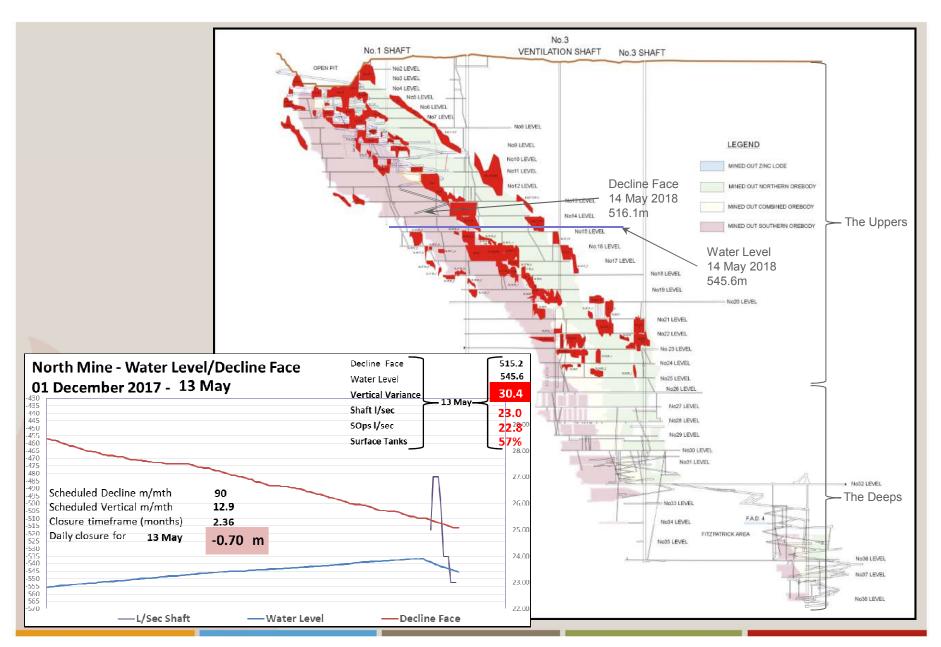
North Mine Project

29 December 2016, first truck of ore through portal:





Long Section





North Mine Project

Works to be undertaken in the next 3 months:

Continue work on Mining Operation management plans

Description		
Continue decline and exploration platform development		
Continue diamond drilling program		
Submit final CAQMP		
Install air quality and environmental monitoring equipment		
Finalise and submit enclosed ROM pad design to Council		
Finalise internal road design		
Finalise evaporation pond design		
Commence construction activities as soon as practicable, subject to management plans and design approvals		



North Mine Project - Community Complaints

Community complaints project to date:

Date	Via	Description	Response
03/10/17	MCC	Noise from trucking	Complaint registered
19/11/17	EPA	Noise from trucking	Instruction issued to workers, no trucking to surface after 19:00, and to limit in-pit tip so far as practicable on night shift
10/04/18	EPA	Noise from equipment	Identified that noise was from shift-start equipment tramming to ramp. Reiterated no trucking to surface after 19:00. Investigating fitment of "surface running" mode on trucks and loaders to limit output on the surface. Investigating having db reading boards displayed so workers can understand potential community impacts
20/04/18	EPA	Low drone noise	Noise monitoring in place, 4 level vent fans turned off to understand impact and if they are noise source.

How can community members contact Perilya?

- Mine Control Centre (08) 8088 8999 manned 24/7
- Mail PO Box 5001, Broken Hill NSW 2880
- Security Gate Southern Operations, Wentworth Road, Broken Hill



