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23 December 2020

Dam Safety NSW
Department of Planning, Industry and Environment
4 Parramatta Square, 12 Darcy Street
Parramatta NSW 2150

To Whom it May Concern,

## RE: Mount Pleasant Operation Notification of Compliance as per Clause 26, Dams Safety Regulation 2019

MACH Energy Australia (MACH Energy) wishes to notify Dams Safety NSW (DSNSW) of its current compliance status in 2020 with Clause 26 of the *Dams Safety Regulation 2019* under the *Dams Safety Act 2015*. It is to be noted there is a two (2) year transition period for all updated requirements of the *Dams Safety Regulation 2019*.

#### Mount Pleasant Operation (MPO) Declared Dam Information

Consequence Category	Name	DSNSW Dam ID
Significant	Mount Pleasant Environmental Dam 3 (ED3)	1257
High C	Mount Pleasant Mine Water Dam (MWD)	1261
High C	Mount Pleasant Fines Emplacement Area (FEA) – Tailings Dam	1260

#### 2020 Inspection Reports & Emergency Exercises

- Comprehensive Inspection SLR Consulting Australia Pty Ltd (SLR) Inspection of the Tailings
   Dam (TD) February 2020
- Comprehensive Inspection WSP Mine Water Dam (MWD) Comprehensive Inspection June 2020
- Comprehensive Inspection WSP Evaporation Dam 3 (ED3) Comprehensive Inspection August 2020
- Mine Water Dam Failure Exercise 13 November 2020
- FEA Failure Exercise 2 December 2020





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#### **Annual Management Plan Updates**

Name	Current Plans	Updates
Mount Pleasant	OMM (February 2019)	OMM Manual – draft under review
Environmental Dam 3 (ED3)	DSEP (January 2018)	DSEP – draft under review
Mount Pleasant Mine Water	OMM (February 2019)	OMM Manual – draft under review
Dam (MWD)	DSEP (January 2018)	DSEP – draft under review
Mount Pleasant Tailings Dam (FEA)	OMM and DSEP (August 2018)	OMM Manual – revised final under review DSEP – revised final under review

#### **Compliance Summary**

MACH Energy is committed to implementing reasonable and feasible measures at the Mount Pleasant Operation to maintain compliance with relevant conditions of the *Dams Safety Regulation 2019* and *Dams Safety Act 2015*.

Please do not hesitate to contact the undersigned should you wish to discuss.

Yours sincerely,

**Andrew Reid** 

Environmental Superintendent andrew.reid@machenergy.com.au

#### **Attachments**

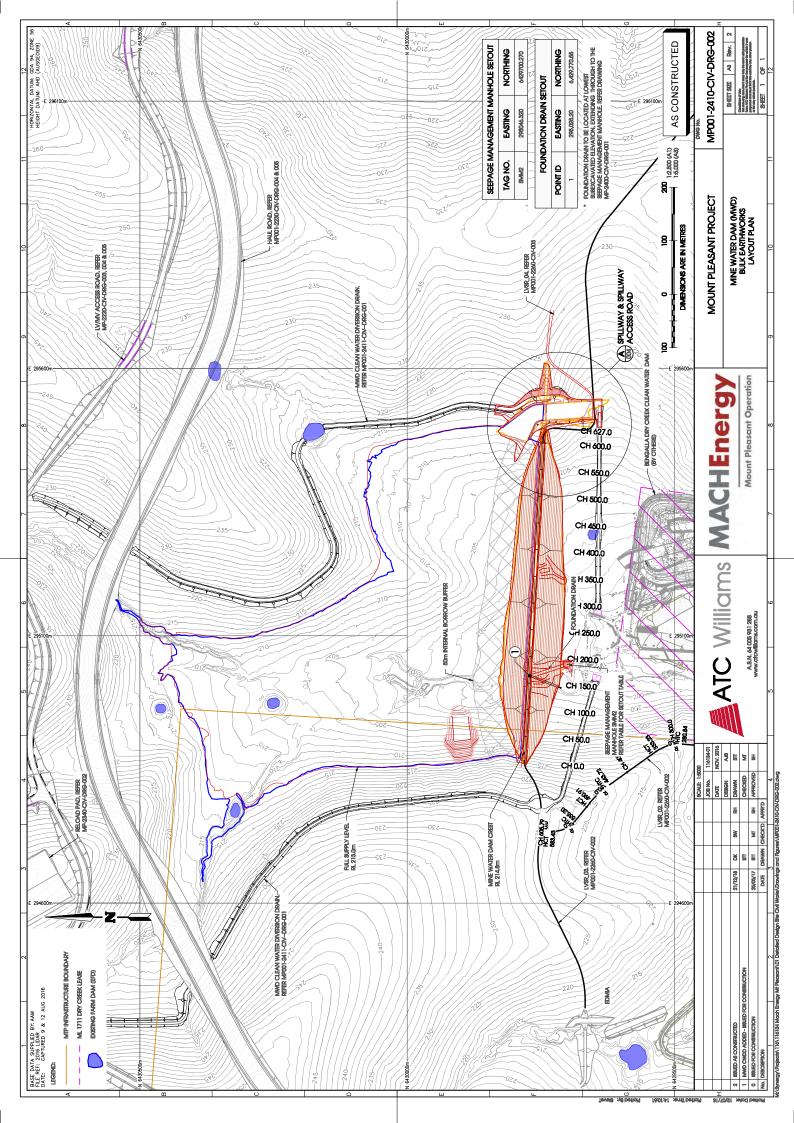
- Dam Information Form and Plan Mine Water Dam (MWD)
- Dam Information Form and Plan Environmental Dam 3 (ED3)
- Dam Information Form and Plan Fines Emplacement Area (FEA) Tailings Dam



### **Dam Information Form**

1.	Name of dam: Mine Water Dam (MWD)		
2.	Location of dam:  a) Place Name: Mount Pleasant Operation		
	a) Place Name: IVIOUTIL I TEASAITE OPERATION		
	b) CMA/LPMA/Other Topographic Series Map Series Name:		
	Number: MP001-2410-CIV-DRG-002		
	c1) Geographic Co-ordinates: Latitude: Longitude:		
	c2) [OR] Projected Co-ordinates: Grid: MGA AMG Other (please tick)		
	Zone (if known): 54 55 56 Other (please tick)		
	Easting 6 429 935 m Northing 295 103 m		
	(Note: DSC prefers Geographic data in decimal degrees)		
	d) Please attach a copy of the appropriate Topographic Map showing the outline of the area covered by full supply level (indicating Reduced Level) of the dam and any further augmentation.		
	e) Approximate Elevation (mAHD): 214.8 Crest FSL		
3.	River/Stream: Dry Creek		
4.	Owner: MACH Energy Australia Phone No.: 1800 931 873		
	Address: Head Office - Suite 1, Level 3, 426 King Street, Newcastle West NSW 2302		
	Postal address - PO Box 2115, Dangar NSW 2309		
	Owner's Representative: Andrew Reid Phone No.: 02 55171116		
	1100 Wybong Road, Muswellbrook NSW 2333		
	Address: 1100 VV y borng 1 toda, 1 vida well brook 1 40 VV 2000		
5.	Catchment Area: 0.8 km²		
6.	Dam Height: 20m		
7.	Storage Volume: 2,059 ML		
	a) Material stored (attach details): Water		
8.	Purpose of Dam: Storage of water for mining purposes		
J.	, a.pood or barring		

9.	Type of Dam (i.e. concrete	e gravity, zoned earthfill, etc.): Zoned Earthfill
10.	Design Flood Assessmen	t
	Inflow Flood Peak: 60.1	m³/s Annual Exceedance Probability 100,000
	Method: Rational Me	thod Date: June 2020
	a) Spillway Type: Reinfor	ced concrete lined area with geotextile and rock fill
11a	Refer Declared dams conse	Category: (if known) (please tick the appropriate box) quence category assessment and determination methodology  HighB  HighC  Significant  Low  Very Low  (including PLL or PAR):  Proximity of Bengalla Mine's
	Clean Water Dam, v	Vybong Road and Bengalla's Open pit
11k	·	gory: (if known) (please tick the appropriate box) uence category assessment and determination methodology
	Extreme High A	HighB HighC Significant Low Very Low
	Reasons for assessment (	including PLL or PAR): An existing clean water diversion drain
		runoff from surrounding catchments
12.	Names of and River Dista	nces to Downstream Dams: Dry Creek
12.		n upstream of Bengalla's Clean Water Dam 1
	The following da	ta is required for existing dams only
13.	Engineered by: ATC V	Villiams
14.	Constructed by:	others Mining And Construction and Ditchfield Contracting P/L
15.	2018	followed by installation of Geosynthetic Clay Liner (GCL) in 2019
16.	•	inspections: Every Five Years
17.		15 April 2020
18.	' -	prepared? Yes
	Trac a carremance repent	
	Name:	Mine Water Dam Comperhensive Inspection
f	Signature and Date	Alistair Hitchon June 2020
	Designation (Owner,	WSP
L	Manager, Consultant etc)	





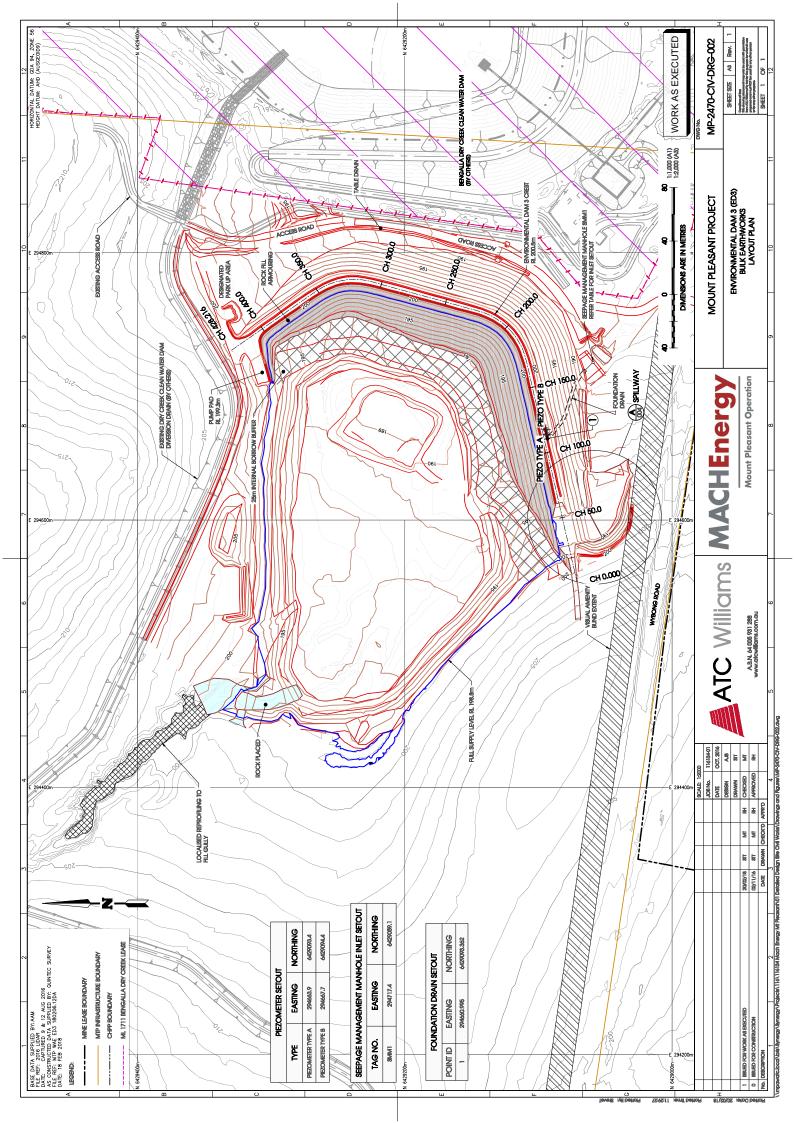
# **Dams Safety**

# Dam Information Form Environmental Dam 3 (ED3)

	Name of dam: Environmental Dam 3 (ED3)
2.	Location of dam: a) Place Name: Mount Pleasant Operation
	b) CMA/LPMA/Other Topographic Series Map Series Name:
	c1) Geographic Co-ordinates: Latitude: Longitude:
	C2) [OR] Projected Co-ordinates: Grid: MGA  AMG Other (please tick)  Zone (if known): 54 55 56  Other (please tick)  Easting 6429 205 m Northing 294622 m
	(Note: DSC prefers Geographic data in decimal degrees)
	d) Please attach a copy of the appropriate Topographic Map showing the outline of the area covered by full supply level (indicating Reduced Level) of the dam and any further augmentation.
	e) Approximate Elevation (mAHD): 200 [7] Crest FSL
3.	River/Stream: Unnamed tributary to Dry Creek
١.	Owner: MACH Energy Australia Phone No.: 1800 931 873
	Address: Head Office - Suite 1, Level 3, 426 King Street, Newcastle West NSW 2302
	Postal address – PO Box 2115, Dangar NSW 2309
	Owner's Representative: Andrew Reid Phone No.: 02 55171116
	Address: 1100 Wybong Road, Muswellbrook NSW 2333
ō.	Catchment Area: 0.06 km²
3.	Dam Height: 11m
7.	Storage Volume: 331.9 ML
	a) Material stored (attach details): Water
3.	Purpose of Dam: Storage and evaporation of water

9.	Type of Dam (i.e. concrete	e gravity, zoned earthfill, etc.): Zoned Earthfill
10.	Design Flood Assessment Inflow Flood Peak: 69.5  Method: Rational Me	m³/s Annual Exceedance Probability 100,000
	a) Spillway Type: Reinfor	rced concrete lined area with geotextile and rock fill
11a	Refer Declared dams conse  Extreme High A  Reasons for assessment	Category: (if known) (please tick the appropriate box) quence category assessment and determination methodology  HighB HighC Significant Low Very Low (including PLL or PAR): Proximity of Bengalla Mine's  Nybong Road and Bengalla's Open pit
11b	Refer Declared dams conseq  Extreme High A  Reasons for assessment	gory: (if known) (please tick the appropriate box)  uence category assessment and determination methodology  HighB HighC Significant Low Very Low  (including PLL or PAR):  runoff from surrounding catchments
12.	Names of and River Dista	nces to Downstream Dams: Approx 350m upstream from Dry Creek ucted along an unnamed tributary of Dry Creek.
	The following da	ata is required for existing dams only
13.	Engineered by.	Williams
14.	Constructed by: Hardy	Brothers Mining And Construction
15.	Year of completion: 2017	7 followed by installation of Geosynthetic Clay Liner (GCL) in 2019
16.	Every Five Years	
17.		17 June 2020
18.	·	prepared? Yes
Γ	Name:	ENVIRONMENTAL DAM 3 COMPREHENSIVE INSPECTION
-	Signature and Date	Alistair Hitchon 10-Aug-20
-	Designation (Owner, Manager Consultant etc)	WSP

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## **Dam Information Form**

1.	Name of dam: Mount Pleasant Operation (MPO) Tailings Dam
2.	Location of dam:  a) Place Name: Mount Pleasant Operation Tailings Dam
	a) Place Name: IVIOUTIL I TEASAITE OPERATION TAILINGS DAIT
	b) CMA/LPMA/Other Topographic Series Map Series Name:  As Constructed Survey Data  Output  Description:
	Number: MP001-2610-CIV-DRG-004
	c1) Geographic Co-ordinates: Latitude: -32.239465° Longitude: 150.806416°
	c2) [OR] Projected Co-ordinates: Grid: MGA AMG Other (please tick)
	Zone (if known): 54 55 56 V Other (please tick)
	Easting 292530.75 m Northing 6431390.96 m
	(Note: DSC prefers Geographic data in decimal degrees)
	d) Please attach a copy of the appropriate Topographic Map showing the outline of the area covered by full supply level (indicating Reduced Level) of the dam and any further augmentation.
	e) Approximate Elevation (mAHD): 259.77 Crest FSL
3.	River/Stream: Hunter River Catchment
4.	Owner: MACH Energy Australia Pty Ltd Phone No.: 1800 886 889
	Address: 1100 Wybong Road
	Muswellbrook, NSW 2333
	Owner's Representative: Sedgman Pty Ltd Phone No.: 07 3514 1343
	Address: Level 5, 179 Grey Street
	South Bank, Brisbane QLD 4101
5.	Catchment Area: 2.2 km²
6.	Dam Height: 30.5
7.	Storage Volume: 3148.2
	a) Material stored (attach details):
8	Purpose of Dam: Main fine reject's storage for MPO

9.	,	MP001-2510-CIV-DRG-003 for details)
10.	Critical case based on 1:100,000 AEP cri	1.5 m³/s Annual Exceedance Probability 1 in 100,000 Date: October 2017
	Method:  a) Spillway Type: Emerg	gency Spillway (see MP001-2510-CIV-DRG-004 for details)
11a.	Sunny Day Consequence Refer Declared dams conse	e Category: (if known) (please tick the appropriate box) equence category assessment and determination methodology  High B  High C  Significant  Low  Very Low
_	Reasons for assessment	(including PLL or PAR): See ATC Williams Design Design Report MP001-2000-CIV-REP-006 for details
11b.	•	gory: (if known) (please tick the appropriate box) uence category assessment and determination methodology
	Extreme High A	High B ✓ High C Significant Low Very Low
		(including PLL or PAR):sign Report MP001-2000-CIV-REP-006 for details
12.	Approximately 7.6km	nces to Downstream Dams:n west of Hunter River
13.	-	ata is required for existing dams only  Williams
14.		nfield Contracting
15.	Conditacted by.	118
16.	Frequency of surveillance inspections:  Annually	
17.	Date of lastinspection: _	November 2019
18.	Was a surveillance report	prepared? Yes
N	lame:	Marrie Discourt Countries Tailing Day 2010 Internation Languages 42 Martin Day Countries in
S	ignature and Date	Mount Pleasant Operation - Tailings Dam 2019 Intermediate Inspection, 12 Months Post Commissioning
	Designation (Owner, Manager, Consultant etc)	SLR Consulting

