

1601-0086



CLIENT:		Macquarie Gold (Challenger Mines)				ANALYTES REQUIRED <i>Complete &amp; tick as required</i>																
CONTACT:		/Ramon Atayde / <i>Sandra Burgess</i>				Alkalinity, BOD, CN, Ec, pH	Hardness, SAR	TSS, Turbidity	Al, As, B, Cd, Ca, Cr, Co, Cu	Fe, Pb, Mg, Mn, Hg, Mo, Ni, P	K, Se, Na, S, Zn	Oil & Grease	Cl, F									
ADDRESS:		65 Golden Gully Road Adelong NSW 2729																				
TELEPHONE:		02-6946 2266		E-mail <i>Sandra@Challengermines.com</i>																		
ABN:																						
SAMPLE IDENTIFICATION	NATURE OF SAMPLE	DATE SAMPLED	TIME SAMPLED	CONTAINER TYPE	NUMBER OF CONTAINERS																	
<i>Goodwin Dam Spillway #3</i>	<i>Water</i>	<i>14/1/16</i>	<i>9-1 Sam</i>	<i>Plastic/glass</i>	<i>1</i>																	
<i>Goodwin Dam Spillway #3</i>	<i>Water</i>	<i>14/1/16</i>	<i>9-16am</i>	<i>Plastic/glass</i>	<i>1</i>																	

Please supply a brown glass O&G bottle if Oil and grease is required as well as a 1L plastic

RELINQUISHED BY:	NAME	SIGNATURE	ORGANISATION	DATE	TIME
	<i>S. Burgess</i>	<i>Sandra Burgess</i>	<i>Challenger Mines PL</i>	<i>14/1/16</i>	<i>4-02pm</i>
Mode of Transport	Include Consignment Note # if applicable				
	<i>Pack n Send</i>				
RECEIVED BY:					

Macquarie Gold Ltd  
c/- 'Willowie' Delegate Road  
Bombala NSW 2632  
Attention: Mike Walcott

Wednesday, January 27, 2016



NATA Accredited Laboratory  
Number: 9597

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## LABORATORY ANALYSIS REPORT

Report Number:1601-0086

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<b>Facility:</b>	<b>Order #</b> 167	
<b>Sample Type</b>	<b>Collected By</b>	<b>Date Received</b>
Water	S. Burgess	15-January-2016

<u>EAL ID</u>	<u>Client ID.</u> Date/Time sample taken	<u>Test</u>	<u>Result (units)</u>	<u>Method Reference</u>	<u>Limit of Reporting</u>
16Jan-0341	#3 Goodwin Dam Spillway 14.01.16 9.15am	Alkalinity, Total as CaCO3	88 mg/L	APHA 2320 B	2
		Aluminium (acid extractable)	0.81 mg/L	APHA 3030 E/3120 B	0.03
		Arsenic (acid extractable)	<0.02 mg/L	APHA 3030 E/3120 B	0.02
		Biochemical Oxygen Demand	10 mg/L	APHA 5210 B/4500-O G	2
		Boron (acid extractable)	0.30 mg/L	* APHA 3030 E/3120 B	0.02
		Cadmium (acid extractable)	<0.002 mg/L	APHA 3030 E/3120 B	0.002
		Calcium (acid extractable)	25.4 mg/L	APHA 3030 E/3120 B	0.03
		Chloride	6.2 mg/L	APHA 4110 B	0.1
		Chromium (acid extractable)	0.003 mg/L	APHA 3030 E/3120 B	0.002
		Cobalt (acid extractable)	<0.003 mg/L	* APHA 3030 E/3120 B	0.003
		Copper (acid extractable)	0.022 mg/L	APHA 3030 E/3120 B	0.002
		Cyanide	0.003 mg/L	* APHA 4500-CN E	0.002
		Conductivity	411 µS/cm	APHA 2510 B	1
		Fluoride	0.5 mg/L	APHA 4110 B	0.1
		Total Hardness as CaCO3	142 mg/L	APHA 2340 B	2
		Iron (acid extractable)	0.34 mg/L	APHA 3030 E/3120 B	0.01
		Lead (acid extractable)	<0.01 mg/L	APHA 3030 E/3120 B	0.01
		Magnesium (acid extractable)	19.0 mg/L	APHA 3030 E/3120 B	0.02
		Manganese (acid extractable)	0.027 mg/L	APHA 3030 E/3120 B	0.001
		Mercury	<0.0001 mg/L	Analysis by Ecowise, Melbourne (acc no: 992)	
		Molybdenum (acid extractable)	<0.01 mg/L	* APHA 3030 E/3120 B	0.01
		Nickel (acid extractable)	<0.01 mg/L	APHA 3030 E/3120 B	0.01

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<b>Facility:</b>	<b>Order #</b> 167	
<b>Sample Type</b>	<b>Collected By</b>	<b>Date Received</b>
Water	S. Burgess	15-January-2016

<u>EAL ID</u>	<u>Client ID.</u> Date/Time sample taken	<u>Test</u>	<u>Result (units)</u>	<u>Method Reference</u>	<u>Limit of Reporting</u>
16Jan-0341	#3 Goodwin Dam Spillway 14.01.16 9.15am	Oil & Grease	1 mg/L	APHA 5520 D	1
		Phosphorus	0.03 mg/L	APHA 3030 E/3120 B	0.02
		pH	9.2 pH units	APHA 4500-H+ B	
		Potassium (acid extractable)	3.4 mg/L	APHA 3030 E/3120 B	0.2
		Sodium Adsorption Ratio	1 Ratio	LTM-W-039	
		Selenium (acid extractable)	<0.02 mg/L	APHA 3030 E/3120 B	0.02
		Sodium (acid extractable)	27.8 mg/L	APHA 3030 E/3120 B	0.05
		Sulphur (acid extractable)	38.6 mg/L	* APHA 3030 E/3120 B	0.06
		Total Suspended Solids	7 mg/L	APHA 2540 D	2
		Turbidity	7 NTU	APHA 2130 B	1
		Zinc (acid extractable)	0.007 mg/L	APHA 3030 E/3120 B	0.002

Note:

*NATA accreditation not held for tests marked with \**

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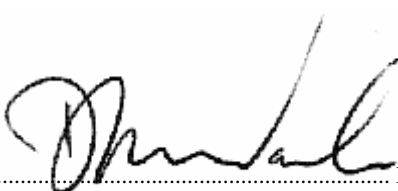
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Signed .....  ..... David Wade, Laboratory Manager.

*All samples analysed as received.  
All soil results are reported on a dry basis.  
The EAL takes no responsibility for the end use of results within this report.  
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