

1510-0011



CLIENT: Macquarie Gold (Challenger Mines)					ANALYTES REQUIRED Complete & tick as required															
CONTACT: Brett Hampel/Ramon Atayde					Alkalinity, BOD, CN, Ec, pH	Hardness, SAR	TSS, Turbidity	Al, As, B, Cd, Ca, Cr, Co, Cu	Fe, Pb, Mg, Mn, Hg, Mo, Ni, F	K, Se, Na, S, Zn	Oil & Grease	Cl, F								
ADDRESS: 65 Golden Gully Road																				
adelong NSW 2729																				
ABN:																				
TELEPHONE: 0407 729 788		E-mail		bwh.business@bigpond.com																
SAMPLE IDENTIFICATION	NATURE OF SAMPLE	DATE SAMPLED	TIME SAMPLED	CONTAINER TYPE															NUMBER OF CONTAINERS	
#3 spill way woodworth dam	water	1-10-15	8:50	Plastic/glass	1															
# spill way woodworth dam	water	1-10-15	8:50	Plastic/glass	1															

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
Mode of Transport Include Consignment Note # if applicable	Melanie Maher		Challenger mines PTY LTD	1-10-15	9:45
RECEIVED BY:					

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

Thursday, October 22, 2015



NATA Accredited Laboratory  
Number: 9597

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## LABORATORY ANALYSIS REPORT

Report Number: 1510-0011

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*For all enquiries related to this report please quote document number: 1510-0011*

<b>Facility:</b>	<b>Order #</b> Order 071
<b>Sample Type</b>	<b>Collected By</b> M Maher
Water	<b>Date Received</b> 06-October-2015

<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>
15Oct-0063	#3 Goodwin Dam Spillway 01.10.15 8.50am	Alkalinity, Total as CaCO3	116 mg/L	APHA 2320 B	2
		Aluminium (acid extractable)	2.27 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	3 mg/L	APHA 5210 B/4500-O G	2
		Boron (acid extractable)	<0.02 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)	46.9 mg/L	APHA 3030 E/3120 B	0.03
		Chloride	5.9 mg/L	APHA 4110 B	0.1
		Chromium (acid extractable)	0.002 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)	0.006 mg/L	APHA 3030 E/3120 B	0.002
		Cyanide	0.009 mg/L	* APHA 4500-CN E	0.002
		Conductivity	432 µS/cm	APHA 2510 B	1
		Fluoride	0.3 mg/L	APHA 4110 B	0.1
		Total Hardness as CaCO3	172 mg/L	APHA 2340 B	2
		Iron (acid extractable)	1.32 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)	13.4 mg/L	APHA 3030 E/3120 B	0.02
		Manganese (acid extractable)	0.107 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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## LABORATORY ANALYSIS REPORT

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<b>Facility:</b>	<b>Order #</b> Order 071
<b>Sample Type</b>	<b>Collected By</b> M Maher
Water	<b>Date Received</b> 06-October-2015

<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>
15Oct-0063	#3 Goodwin Dam Spillway 01.10.15 8.50am	Oil & Grease	2 mg/L	APHA 5520 D	1
		Phosphorus	0.03 mg/L	APHA 3030 E/3120 B	0.02
		pH	8.5 pH units	APHA 4500-H+ B	
		Potassium (acid extractable)	2.5 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)	16.3 mg/L	APHA 3030 E/3120 B	0.05
		Sulphur (acid extractable)	33.2 mg/L	* APHA 3030 E/3120 B	0.06
		Total Suspended Solids	47 mg/L	APHA 2540 D	2
		Turbidity	17 NTU	APHA 2130 B	1
		Zinc (acid extractable)	0.008 mg/L	APHA 3030 E/3120 B	0.002

Note:

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

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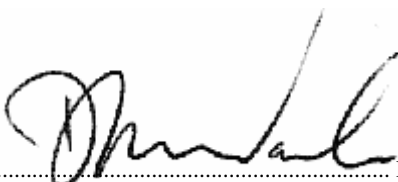
## LABORATORY ANALYSIS REPORT

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Water	M Maher	06-October-2015

<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>
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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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