

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

Friday, October 23, 2015



NATA Accredited Laboratory
Number: 9597

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LABORATORY ANALYSIS REPORT

Report Number: 1510-0048

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For all enquiries related to this report please quote document number: 1510-0048

Facility:	Order # Job 080
Sample Type	Collected By
Water	M Maher
	Date Received
	12-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-0224	#3 Goodwin Dam Spillway 08.10.15 9.30am	Alkalinity, Total as CaCO3	135 mg/L	APHA 2320 B	2
		Aluminium (acid extractable)	1.06 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	<2 mg/L	APHA 5210 B/4500-O G	2
		Boron (acid extractable)	0.18 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)	41.1 mg/L	APHA 3030 E/3120 B	0.03
		Chloride	5.5 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)	0.002 mg/L	APHA 3030 E/3120 B	0.002
		Cyanide	0.003 mg/L	* APHA 4500-CN E	0.002
		Conductivity	428 µS/cm	APHA 2510 B	1
		Fluoride	0.4 mg/L	APHA 4110 B	0.1
		Total Hardness as CaCO3	158 mg/L	APHA 2340 B	2
		Iron (acid extractable)	0.20 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)	13.5 mg/L	APHA 3030 E/3120 B	0.02
		Manganese (acid extractable)	0.024 mg/L	APHA 3030 E/3120 B	0.001
		Mercury	<0.001 mg/L	Analysis by Ecovise, 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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Facility:	Order # Job 080
Sample Type	Collected By
Water	M Maher
	Date Received 12-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-0224	#3 Goodwin Dam Spillway 08.10.15 9.30am	Oil & Grease	6 mg/L	APHA 5520 D	1
		Phosphorus	<0.02 mg/L	APHA 3030 E/3120 B	0.02
		pH	8.6 pH units	APHA 4500-H+ B	
		Potassium (acid extractable)	2.4 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)	16.1 mg/L	APHA 3030 E/3120 B	0.05
		Sulphur (acid extractable)	31.0 mg/L	* APHA 3030 E/3120 B	0.06
		Total Suspended Solids	11 mg/L	APHA 2540 D	2
		Turbidity	11 NTU	APHA 2130 B	1
		Zinc (acid extractable)	0.005 mg/L	APHA 3030 E/3120 B	0.002
15Oct-0225	#7 Discharge Decline 08.10.15 9.45am	Alkalinity, Total as CaCO3	194 mg/L	APHA 2320 B	2
		Aluminium (acid extractable)	1.46 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	<2 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)	93.3 mg/L	APHA 3030 E/3120 B	0.03
		Chloride	8.8 mg/L	APHA 4110 B	0.1
		Chromium (acid extractable)	0.006 mg/L	APHA 3030 E/3120 B	0.002
		Cobalt (acid extractable)	<0.003 mg/L	* APHA 3030 E/3120 B	0.003

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Facility:	Order #	Job 080
Sample Type	Collected By	Date Received
Water	M Maher	12-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-0225	#7 Discharge Decline 08.10.15 9.45am	Copper (acid extractable)	0.036 mg/L	APHA 3030 E/3120 B	0.002
		Cyanide	0.026 mg/L	* APHA 4500-CN E	0.002
		Conductivity	717 µS/cm	APHA 2510 B	1
		Fluoride	0.7 mg/L	APHA 4110 B	0.1
		Total Hardness as CaCO3	297 mg/L	APHA 2340 B	2
		Iron (acid extractable)	9.18 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)	15.5 mg/L	APHA 3030 E/3120 B	0.02
		Manganese (acid extractable)	1.40 mg/L	APHA 3030 E/3120 B	0.01
		Mercury	<0.001 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
		Oil & Grease	6 mg/L	APHA 5520 D	1
		Phosphorus	<0.02 mg/L	APHA 3030 E/3120 B	0.02
		pH	7.5 pH units	APHA 4500-H+ B	
		Potassium (acid extractable)	4.8 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)	17.4 mg/L	APHA 3030 E/3120 B	0.05
		Sulphur (acid extractable)	50.1 mg/L	* APHA 3030 E/3120 B	0.06
		Total Suspended Solids	38 mg/L	APHA 2540 D	2
		Turbidity	91 NTU	APHA 2130 B	1

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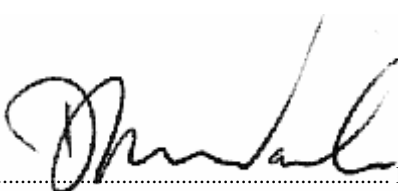
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Water	M Maher	12-October-2015

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15Oct-0225	#7 Discharge Decline 08.10.15 9.45am	Zinc (acid extractable)	0.088 mg/L	APHA 3030 E/3120 B	0.002

Note:

*NATA accreditation not held for tests marked with **

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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