

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

Wednesday, February 10, 2016



NATA Accredited Laboratory
Number: 9597

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LABORATORY ANALYSIS REPORT

Report Number:1602-0001

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For all enquiries related to this report please quote document number: 1602-0001

Facility:	Order # Job Work Order 185
Sample Type	Collected By
Water	Client
	Date Received 01-February-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>
16Feb-0001	#1 Sediment Pond 28.01.16 8:40	Alkalinity, Total as CaCO3	105 mg/L	APHA 2320 B	2
		Aluminium (acid extractable)	1.91 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)	0.27 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)	15.6 mg/L	APHA 3030 E/3120 B	0.03
		Chloride	5.8 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	0.006 mg/L	* APHA 4500-CN E	0.002
		Conductivity	254 µS/cm	APHA 2510 B	1
		Fluoride	0.4 mg/L	APHA 4110 B	0.1
		Total Hardness as CaCO3	82 mg/L	APHA 2340 B	2
		Iron (acid extractable)	2.16 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)	10.4 mg/L	APHA 3030 E/3120 B	0.02
		Manganese (acid extractable)	0.065 mg/L	APHA 3030 E/3120 B	0.001
		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

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LABORATORY ANALYSIS REPORT

Report Number: 1602-0001

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Facility:	Order # Job Work Order 185
Sample Type	Collected By
Water	Client
	Date Received 01-February-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>
16Feb-0001	#1 Sediment Pond 28.01.16 8:40	Oil & Grease	2 mg/L	APHA 5520 D	1
		Phosphorus	0.08 mg/L	APHA 3030 E/3120 B	0.02
		pH	8.4 pH units	APHA 4500-H+ B	
		Potassium (acid extractable)	4.1 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)	13.7 mg/L	APHA 3030 E/3120 B	0.05
		Sulphur (acid extractable)	5.37 mg/L	* APHA 3030 E/3120 B	0.06
		Total Suspended Solids	213 mg/L	APHA 2540 D	2
		Turbidity	22 NTU	APHA 2130 B	1
		Zinc (acid extractable)	0.007 mg/L	APHA 3030 E/3120 B	0.002
16Feb-0002	#3 Goodwin Dam Sample Point 28.01.16 8:50	Alkalinity, Total as CaCO ₃	83 mg/L	APHA 2320 B	2
		Aluminium (acid extractable)	0.44 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)	21.8 mg/L	APHA 3030 E/3120 B	0.03
		Chloride	6.6 mg/L	APHA 4110 B	0.1
		Chromium (acid extractable)	0.004 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 Work Order 185
Sample Type	Collected By
Water	Client
	Date Received 01-February-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>
16Feb-0002	#3 Goodwin Dam Sample Point 28.01.16 8:50	Copper (acid extractable)	0.008 mg/L	APHA 3030 E/3120 B	0.002
		Cyanide	0.002 mg/L	* APHA 4500-CN E	0.002
		Conductivity	406 µS/cm	APHA 2510 B	1
		Fluoride	0.7 mg/L	APHA 4110 B	0.1
		Total Hardness as CaCO3	121 mg/L	APHA 2340 B	2
		Iron (acid extractable)	0.18 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)	16.2 mg/L	APHA 3030 E/3120 B	0.02
		Manganese (acid extractable)	0.014 mg/L	APHA 3030 E/3120 B	0.001
		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	<1 mg/L	APHA 5520 D	1
		Phosphorus	<0.02 mg/L	APHA 3030 E/3120 B	0.02
		pH	9.3 pH units	APHA 4500-H+ B	
		Potassium (acid extractable)	2.6 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)	24.3 mg/L	APHA 3030 E/3120 B	0.05
		Sulphur (acid extractable)	33.0 mg/L	* APHA 3030 E/3120 B	0.06
		Total Suspended Solids	7 mg/L	APHA 2540 D	2
		Turbidity	2 NTU	APHA 2130 B	1

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16Feb-0002	#3 Goodwin Dam Sample Point 28.01.16 8:50	Zinc (acid extractable)	0.004 mg/L	APHA 3030 E/3120 B	0.002
16Feb-0003	#4 Goodwin Dam Spillway 28.01.16 9:10	Alkalinity, Total as CaCO ₃	82 mg/L	APHA 2320 B	2
		Aluminium (acid extractable)	0.49 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)	21.4 mg/L	APHA 3030 E/3120 B	0.03
		Chloride	7.4 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)	0.006 mg/L	APHA 3030 E/3120 B	0.002
		Cyanide	<0.002 mg/L	* APHA 4500-CN E	0.002
		Conductivity	407 µS/cm	APHA 2510 B	1
		Fluoride	0.7 mg/L	APHA 4110 B	0.1
		Total Hardness as CaCO ₃	119 mg/L	APHA 2340 B	2
		Iron (acid extractable)	0.16 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)	15.9 mg/L	APHA 3030 E/3120 B	0.02
		Manganese (acid extractable)	0.012 mg/L	APHA 3030 E/3120 B	0.001

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16Feb-0003	#4 Goodwin Dam Spillway 28.01.16 9:10	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	9.3 pH units	APHA 4500-H+ B	
		Potassium (acid extractable)	2.7 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)	24.1 mg/L	APHA 3030 E/3120 B	0.05
		Sulphur (acid extractable)	32.4 mg/L	* APHA 3030 E/3120 B	0.06
		Total Suspended Solids	5 mg/L	APHA 2540 D	2
		Turbidity	6 NTU	APHA 2130 B	1
		Zinc (acid extractable)	0.005 mg/L	APHA 3030 E/3120 B	0.002
16Feb-0004	#6 Receiving Point 28.01.16 9:15	Alkalinity, Total as CaCO3	248 mg/L	APHA 2320 B	2
		Aluminium (acid extractable)	0.37 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)	0.05 mg/L	* APHA 3030 E/3120 B	0.02
		Cadmium (acid extractable)	<0.002 mg/L	APHA 3030 E/3120 B	0.002

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Sample Type	Collected By
Water	Client
	Date Received 01-February-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>
16Feb-0004	#6 Receiving Point 28.01.16 9:15	Calcium (acid extractable)	35.4 mg/L	APHA 3030 E/3120 B	0.03
		Chloride	11.1 mg/L	APHA 4110 B	0.1
		Chromium (acid extractable)	0.004 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)	0.005 mg/L	APHA 3030 E/3120 B	0.002
		Cyanide	<0.002 mg/L	* APHA 4500-CN E	0.002
		Conductivity	485 µS/cm	APHA 2510 B	1
		Fluoride	0.4 mg/L	APHA 4110 B	0.1
		Total Hardness as CaCO3	164 mg/L	APHA 2340 B	2
		Iron (acid extractable)	0.48 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)	18.3 mg/L	APHA 3030 E/3120 B	0.02
		Manganese (acid extractable)	0.236 mg/L	APHA 3030 E/3120 B	0.001
		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	<1 mg/L	APHA 5520 D	1
		Phosphorus	0.02 mg/L	APHA 3030 E/3120 B	0.02
		pH	7.3 pH units	APHA 4500-H+ B	
		Potassium (acid extractable)	1.7 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

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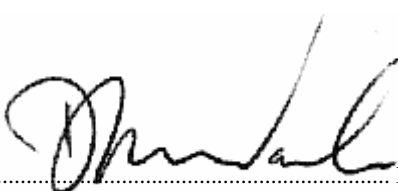
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Water	Client
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16Feb-0004	#6 Receiving Point 28.01.16 9:15	Sodium (acid extractable)	34.4 mg/L	APHA 3030 E/3120 B	0.05
		Sulphur (acid extractable)	5.97 mg/L	* APHA 3030 E/3120 B	0.06
		Total Suspended Solids	6 mg/L	APHA 2540 D	2
		Turbidity	6 NTU	APHA 2130 B	1
		Zinc (acid extractable)	0.012 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.
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