

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

Wednesday, August 26, 2015



NATA Accredited Laboratory  
Number: 9597

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## INTERIM LABORATORY ANALYSIS REPORT

Report Number:1508-0052

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*For all enquiries related to this report please quote document number: 1508-0052*

<u>Facility:</u>	<u>Order #</u>	<u>Date Received</u>
<u>Sample Type</u>	<u>Collected By</u>	
Water	M. Maher	14-August-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>
15Aug-0221	Water From Decline 07.08.15 12.30pm				
		Alkalinity, Total as CaCO3	192 mg/L	APHA 2320 B	2
		Aluminium (acid extractable)	0.42 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)	0.87 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)	114 mg/L	APHA 3030 E/3120 B	0.03
		Chloride	7.1 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)	0.027 mg/L	APHA 3030 E/3120 B	0.002
		Cyanide	0.002 mg/L	* APHA 4500-CN E	0.002
		Conductivity	747 µS/cm	APHA 2510 B	1
		Fluoride	0.9 mg/L	APHA 4110 B	0.1
		Total Hardness as CaCO3	359 mg/L	APHA 2340 B	2
		Iron (acid extractable)	0.60 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)	18.1 mg/L	APHA 3030 E/3120 B	0.02
		Manganese (acid extractable)	0.432 mg/L	APHA 3030 E/3120 B	0.001
		Mercury	Pending 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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<u>Facility:</u>	<u>Order #</u>	<u>Date Received</u>
<u>Sample Type</u>	<u>Collected By</u>	
Water	M. Maher	14-August-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>
15Aug-0221	<b>Water From Decline</b> 07.08.15 12.30pm	<b>Oil &amp; Grease</b>	I/S mg/L	APHA 5520 D	1
		<b>Phosphorus</b>	0.04 mg/L	APHA 3030 E/3120 B	0.02
		<b>pH</b>	7.2 pH units	APHA 4500-H+ B	
		<b>Potassium (acid extractable)</b>	6.6 mg/L	APHA 3030 E/3120 B	0.2
		<b>Sodium Adsorption Ratio</b>	1 Ratio	LTM-W-039	
		<b>Selenium (acid extractable)</b>	0.03 mg/L	APHA 3030 E/3120 B	0.02
		<b>Sodium (acid extractable)</b>	22.0 mg/L	APHA 3030 E/3120 B	0.05
		<b>Sulphur (acid extractable)</b>	69.1 mg/L	* APHA 3030 E/3120 B	0.06
		<b>Total Suspended Solids</b>	<2 mg/L	APHA 2540 D	2
		<b>Turbidity</b>	7 NTU	APHA 2130 B	1
		<b>Zinc (acid extractable)</b>	0.059 mg/L	APHA 3030 E/3120 B	0.002
15Aug-0222	<b>Goodwin Discharge</b> 07.08.15 11.20am	<b>Alkalinity, Total as CaCO3</b>	67 mg/L	APHA 2320 B	2
		<b>Aluminium (acid extractable)</b>	3.00 mg/L	APHA 3030 E/3120 B	0.03
		<b>Arsenic (acid extractable)</b>	<0.02 mg/L	APHA 3030 E/3120 B	0.02
		<b>Biochemical Oxygen Demand</b>	<2 mg/L	APHA 5210 B/4500-O G	2
		<b>Boron (acid extractable)</b>	0.90 mg/L	* APHA 3030 E/3120 B	0.02
		<b>Cadmium (acid extractable)</b>	<0.002 mg/L	APHA 3030 E/3120 B	0.002
		<b>Calcium (acid extractable)</b>	29.2 mg/L	APHA 3030 E/3120 B	0.03
		<b>Chloride</b>	5.2 mg/L	APHA 4110 B	0.1
		<b>Chromium (acid extractable)</b>	0.004 mg/L	APHA 3030 E/3120 B	0.002
		<b>Cobalt (acid extractable)</b>	<0.003 mg/L	* APHA 3030 E/3120 B	0.003

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<u>Facility:</u>	<u>Order #</u>	
<u>Sample Type</u>	<u>Collected By</u>	<u>Date Received</u>
Water	M. Maher	14-August-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>
15Aug-0222	Goodwin Discharge 07.08.15 11.20am	Copper (acid extractable)	0.004 mg/L	APHA 3030 E/3120 B	0.002
		Cyanide	0.009 mg/L	* APHA 4500-CN E	0.002
		Conductivity	278 µS/cm	APHA 2510 B	1
		Fluoride	0.2 mg/L	APHA 4110 B	0.1
		Total Hardness as CaCO <sub>3</sub>	114 mg/L	APHA 2340 B	2
		Iron (acid extractable)	1.62 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)	9.9 mg/L	APHA 3030 E/3120 B	0.02
		Manganese (acid extractable)	0.029 mg/L	APHA 3030 E/3120 B	0.001
		Mercury	Pending 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	I/S mg/L	APHA 5520 D	1
		Phosphorus	<0.02 mg/L	APHA 3030 E/3120 B	0.02
		pH	7.7 pH units	APHA 4500-H+ B	
		Potassium (acid extractable)	2.0 mg/L	APHA 3030 E/3120 B	0.2
		Sodium Adsorption Ratio	1 Ratio	LTM-W-039	
		Selenium (acid extractable)	0.03 mg/L	APHA 3030 E/3120 B	0.02
		Sodium (acid extractable)	13.4 mg/L	APHA 3030 E/3120 B	0.05
		Sulphur (acid extractable)	22.4 mg/L	* APHA 3030 E/3120 B	0.06
		Total Suspended Solids	12 mg/L	APHA 2540 D	2
		Turbidity	49 NTU	APHA 2130 B	1

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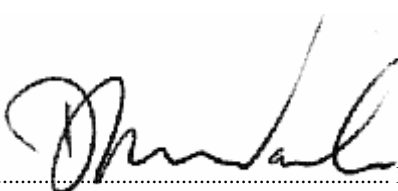
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<u>Facility:</u>	<u>Order #</u>	<u>Date Received</u>
<u>Sample Type</u>	<u>Collected By</u>	
Water	M. Maher	14-August-2015

<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>
15Aug-0222	Goodwin Discharge 07.08.15 11.20am	Zinc (acid extractable)	0.009 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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Water	M. Maher	14-August-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>
15Aug-0221	Water From Decline 07.08.15 12.30pm				
		Alkalinity, Total as CaCO <sub>3</sub>	192 mg/L	APHA 2320 B	2
		Aluminium (acid extractable)	0.42 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)	0.87 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)	114 mg/L	APHA 3030 E/3120 B	0.03
		Chloride	7.1 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)	0.027 mg/L	APHA 3030 E/3120 B	0.002
		Cyanide	0.002 mg/L	* APHA 4500-CN E	0.002
		Conductivity	747 µS/cm	APHA 2510 B	1
		Fluoride	0.9 mg/L	APHA 4110 B	0.1
		Total Hardness as CaCO <sub>3</sub>	359 mg/L	APHA 2340 B	2
		Iron (acid extractable)	0.60 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)	18.1 mg/L	APHA 3030 E/3120 B	0.02
		Manganese (acid extractable)	0.432 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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<u>Sample Type</u>	<u>Collected By</u>	
Water	M. Maher	14-August-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>
15Aug-0221	<b>Water From Decline</b> 07.08.15 12.30pm	<b>Oil &amp; Grease</b>	I/S mg/L	APHA 5520 D	1
		<b>Phosphorus</b>	0.04 mg/L	APHA 3030 E/3120 B	0.02
		<b>pH</b>	7.2 pH units	APHA 4500-H+ B	
		<b>Potassium (acid extractable)</b>	6.6 mg/L	APHA 3030 E/3120 B	0.2
		<b>Sodium Adsorption Ratio</b>	1 Ratio	LTM-W-039	
		<b>Selenium (acid extractable)</b>	0.03 mg/L	APHA 3030 E/3120 B	0.02
		<b>Sodium (acid extractable)</b>	22.0 mg/L	APHA 3030 E/3120 B	0.05
		<b>Sulphur (acid extractable)</b>	69.1 mg/L	* APHA 3030 E/3120 B	0.06
		<b>Total Suspended Solids</b>	<2 mg/L	APHA 2540 D	2
		<b>Turbidity</b>	7 NTU	APHA 2130 B	1
		<b>Zinc (acid extractable)</b>	0.059 mg/L	APHA 3030 E/3120 B	0.002
15Aug-0222	<b>Goodwin Discharge</b> 07.08.15 11.20am	<b>Alkalinity, Total as CaCO3</b>	67 mg/L	APHA 2320 B	2
		<b>Aluminium (acid extractable)</b>	3.00 mg/L	APHA 3030 E/3120 B	0.03
		<b>Arsenic (acid extractable)</b>	<0.02 mg/L	APHA 3030 E/3120 B	0.02
		<b>Biochemical Oxygen Demand</b>	<2 mg/L	APHA 5210 B/4500-O G	2
		<b>Boron (acid extractable)</b>	0.90 mg/L	* APHA 3030 E/3120 B	0.02
		<b>Cadmium (acid extractable)</b>	<0.002 mg/L	APHA 3030 E/3120 B	0.002
		<b>Calcium (acid extractable)</b>	29.2 mg/L	APHA 3030 E/3120 B	0.03
		<b>Chloride</b>	5.2 mg/L	APHA 4110 B	0.1
		<b>Chromium (acid extractable)</b>	0.004 mg/L	APHA 3030 E/3120 B	0.002
		<b>Cobalt (acid extractable)</b>	<0.003 mg/L	* APHA 3030 E/3120 B	0.003

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<u>Facility:</u>	<u>Order #</u>	
<u>Sample Type</u>	<u>Collected By</u>	<u>Date Received</u>
Water	M. Maher	14-August-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>
15Aug-0222	Goodwin Discharge 07.08.15 11.20am				
		Copper (acid extractable)	0.004 mg/L	APHA 3030 E/3120 B	0.002
		Cyanide	0.009 mg/L	* APHA 4500-CN E	0.002
		Conductivity	278 µS/cm	APHA 2510 B	1
		Fluoride	0.2 mg/L	APHA 4110 B	0.1
		Total Hardness as CaCO <sub>3</sub>	114 mg/L	APHA 2340 B	2
		Iron (acid extractable)	1.62 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)	9.9 mg/L	APHA 3030 E/3120 B	0.02
		Manganese (acid extractable)	0.029 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
		Oil & Grease	I/S mg/L	APHA 5520 D	1
		Phosphorus	<0.02 mg/L	APHA 3030 E/3120 B	0.02
		pH	7.7 pH units	APHA 4500-H+ B	
		Potassium (acid extractable)	2.0 mg/L	APHA 3030 E/3120 B	0.2
		Sodium Adsorption Ratio	1 Ratio	LTM-W-039	
		Selenium (acid extractable)	0.03 mg/L	APHA 3030 E/3120 B	0.02
		Sodium (acid extractable)	13.4 mg/L	APHA 3030 E/3120 B	0.05
		Sulphur (acid extractable)	22.4 mg/L	* APHA 3030 E/3120 B	0.06
		Total Suspended Solids	12 mg/L	APHA 2540 D	2
		Turbidity	49 NTU	APHA 2130 B	1

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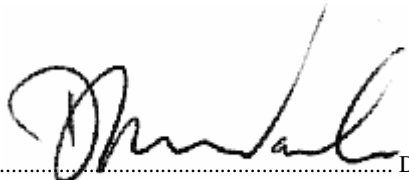
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Water	M. Maher	14-August-2015

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15Aug-0222	Goodwin Discharge 07.08.15 11.20am	Zinc (acid extractable)	0.009 mg/L	APHA 3030 E/3120 B	0.002

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