

Final - Report Number: 3631168		
BOC GASES BOMADERRY	Sample Number:	AW098314
BOLONG ROAD	Date Sampled:	30-Nov-2022
BOMADERRY NSW 2541 AUSTRALIA	Date Received:	02-Dec-2022
Sold To: 0150199259 Ship To: 0150199259	Date Completed:	12-Dec-2022
Representative: Mark Landstra	Date Authorised:	21-Dec-2022

Results apply to the sample as received:

Sampling point: BOC Bomaderry-EPA Licence point

Testing Laboratory: ALS Environmental	
Water	
Alkalinity Test Method: ED037-P	Total
Total Alkalinity (CaCO3)	63 mg/L

 Phosphate
 Test Method: EK067G
 Total

 Total Phosphate (PO4)
 0.48 mg/L

Physical	Test Method	Total
Conductivity at 25°C	EA010-P	327 µS/cm
рН @ 25°С	EA005-P	5.70 pH Units

Demand	Test Method	Total
BOD (5-Day)	EP030	177 mg/L
Chemical Oxygen Demand (O2)	EP026SP	297 mg/L

Other	Test Method	Total
Free Carbon Dioxide	EA165-P	251 mg/L
Total Carbon Dioxide	EA165-P	307 mg/L
Ethanol	EP117	58.3 mg/L
Nitrogen (N)	EK062G	0.4 mg/L

Testing services provided by: ALS Environmental. NATA Accreditation no. 825. Report Number: ES2243635. Report Date: 9-Dec-2022

Authorised by Thanh Hoang Le Lead Chemist



BOC GASES BOMBADERRY	Sample Number:	AW092282
BOLONG ROAD	Date Sampled:	18-Jan-2022
BOMADERRY NSW 2541 AUSTRALIA	Date Received:	19-Jan-2022
Sold To: 0150199259 Ship To: 0150199259	Date Completed:	27-Jan-2022
Representative: Clive Stacey	Date Authorised:	27-Jan-2022

Results apply to the sample as received:

Sampling point: BOC Bomaderry-EPA Licence point

Final - Report Number: 3394231

Testing Laboratory: ALS Environmental	
Water	
Alkalinity Test Method: ED037-P	Total
Total Alkalinity (CaCO3)	58 mg/L

PhosphateTest Method: EK067GTotalTotal Phosphate (PO4)1.89 mg/L

Physical	Test Method	Total
Conductivity at 25°C	EA010-P	324 µS/cm
рН @ 25°С	EA005	5.58 pH Units

Demand	Test Method	Total
BOD (5-Day)	EP030	196 mg/L
Chemical Oxygen Demand (O2)	EP026SP	377 mg/L

Other	Test Method	Total
Free Carbon Dioxide	EA165-P	402 mg/L
Total Carbon Dioxide	EA165-P	453 mg/L
Ethanol	EP117	38.4 mg/L
Nitrogen (N)	EK062G	<1.0 mg/L

Testing services provided by: ALS Environmental. NATA Accreditation no. 825. Report Number: ES2201673. Report Date: 25-Jan-2022

Mothin

Authorised by Mohammad Sjam Chemist



Final - Report Number: 3262075		
BOC GASES BOMBADERRY	Sample Number:	AW088977
BOLONG ROAD	Date Sampled:	22-Jul-2021
BOMADERRY NSW 2541 AUSTRALIA	Date Received:	23-Jul-2021
Sold To: 0150199259 Ship To: 0150199259	Date Completed:	29-Jul-2021
Representative: Clive Stacey	Date Authorised:	03-Aug-2021

This sample was analysed as received, the results being as follows:

Sampling point: Waste Water

Testing Laboratory: ALS Environmental Water

ations - Metals	Test Method	Tota
Aluminium (Al)	EG005T	0.15 mg/
Antimony (Sb)	EG005T	<0.01 mg/
Barium (Ba)	EG005T	<0.1 mg
Beryllium (Be)	EG005T	<0.01 mg
Boron (B)	EG005T	<0.1 mg
Cadmium (Cd)	EG005T	<0.005 mg
Calcium (Ca)	ED093T	42 mg
Chromium (Cr)	EG005T	<0.01 mg
Cobalt (Co)	EG005T	<0.01 mg
Copper (Cu)	EG005T	0.18 mg
Iron (Fe)	EG005T	0.42 mg
Lead (Pb)	EG005T	0.10 mg
Magnesium (Mg)	ED093T	8 mg
Manganese (Mn)	EG005T	0.03 mg
Molybdenum (Mo)	EG005T	<0.01 mg
Nickel (Ni)	EG005T	<0.01 mg
Potassium (K)	ED093T	3 mg
Silica (SiO2)	ED040T	13.0 mg
Sodium (Na)	ED093T	26 mg
Strontium (Sr)	EG005T	<0.1 mg
Tin (Sn)	EG005T	<0.01 mg
Titanium (Ti)	EG005T	<0.01 mg
Vanadium (V)	EG005T	<0.01 mg
Zinc (Zn)	EG005T	0.31 mg

Mothin

Authorised by Mohammad Sjam Chemist



Final - Report Number: 3262075		
BOC GASES BOMBADERRY	Sample Number:	AW088977
BOLONG ROAD	Date Sampled:	22-Jul-2021
BOMADERRY NSW 2541 AUSTRALIA	Date Received:	23-Jul-2021
Sold To: 0150199259 Ship To: 0150199259	Date Completed:	29-Jul-2021
Representative: Clive Stacey	Date Authorised:	03-Aug-2021

This sample was analysed as received, the results being as follows:

Sampling point: Waste Water

Testing Laboratory: ALS Environmental

Anions Test Method: ED009-X	Filtered
Sulfate (SO4)	40.3 mg/L

Phosphate Test Method: EK067G	Total
Total Phosphorus (P)	0.35 mg/L

Physical	Test Method	Total
Conductivity at 25°C	EA010-P	396 µS/cm
рН @ 25°С	EA005-P	5.72 pH Units
Total Suspended Solids @ 105°C	EA025H	50 mg/L
Demand	Test Method	Total
BOD (5-Day)	EP030	64 mg/L
Organic Carbon (C)	EP005	29 mg/L
Chemical Oxygen Demand (O2)	EP026SP	120 mg/L
Other	Test Method	Total
Ammonia (NH3-N)	EK055G	0.02 mg/L
Oil and Grease - Total	EP020	<5 mg/L

Testing services provided by: ALS Environmental. NATA Accreditation no. 825. Report Number: ES2127069. Report Date: 29-Jul-2021

Mothin

Authorised by Mohammad Sjam Chemist



BOC GASES BOMBADERRY	Sample Number:	AW082348
BOLONG ROAD	Date Sampled:	24-Jun-2020
BOMADERRY NSW 2541 AUSTRALIA	Date Received:	26-Jun-2020
Sold To: 0150199259 Ship To: 0150199259	Date Completed:	03-Jul-2020
Representative: Clive Stacey	Date Authorised:	06-Jul-2020

This sample was analysed as received, the results being as follows:

Sampling point: Trade Waste

Final - Report Number: 2961634

Testing Laboratory: ALS Environmental Water

ations - Metals	Test Method	То
Aluminium (Al)	EG005T	<0.10 m
Antimony (Sb)	EG005T	<0.01 m
Barium (Ba)	EG005T	<0.1 m
Beryllium (Be)	EG005T	<0.01 m
Boron (B)	EG005T	<0.1 m
Cadmium (Cd)	EG005T	<0.005 m
Calcium (Ca)	ED093T	25 m
Chromium (Cr)	EG005T	<0.01 m
Cobalt (Co)	EG005T	<0.01 m
Copper (Cu)	EG005T	0.20 m
Iron (Fe)	EG005T	<0.05 m
Lead (Pb)	EG005T	<0.01 m
Magnesium (Mg)	ED093T	7 m
Manganese (Mn)	EG005T	<0.01 m
Molybdenum (Mo)	EG005T	<0.01 m
Nickel (Ni)	EG005T	<0.01 m
Potassium (K)	ED093T	4 m
Silica (SiO2)	ED040T	3.4 m
Sodium (Na)	ED093T	19 m
Strontium (Sr)	EG005T	<0.1 m
Tin (Sn)	EG005T	<0.01 m
Titanium (Ti)	EG005T	<0.01 m
Vanadium (V)	EG005T	<0.01 m
Zinc (Zn)	EG005T	0.05 m

Mothin

Authorised by Mohammad Sjam Chemist



Final - Report Number: 2961634		
BOC GASES BOMBADERRY	Sample Number:	AW082348
BOLONG ROAD	Date Sampled:	24-Jun-2020
BOMADERRY NSW 2541 AUSTRALIA	Date Received:	26-Jun-2020
Sold To: 0150199259 Ship To: 0150199259	Date Completed:	03-Jul-2020
Representative: Clive Stacey	Date Authorised:	06-Jul-2020

This sample was analysed as received, the results being as follows:

Sampling point: Trade Waste

Testing Laboratory: ALS Environmental

Anions Test Method: ED009-X	Filtered
Sulfate (SO4)	24.5 mg/L

Phosphate Test Method: EK067G	Total
Total Phosphorus (P)	0.17 mg/L

Physical	Test Method	Total
Conductivity at 25°C	EA010-P	269 µS/cm
рН @ 25°С	EA005-P	5.66 pH Units
Total Suspended Solids @ 105°C	EA025H	<5 mg/L
Demand	Test Method	Total
BOD (5-Day)	EP030	19 mg/L
Organic Carbon (C)	EP005	18 mg/L
Chemical Oxygen Demand (O2)	EP026SP	42 mg/L
Other	Test Method	Total
Ammonia (NH3-N)	EK055G	0.10 mg/L
Oil and Grease - Total	EP020	<5 mg/L

Testing services provided by: ALS Environmental. NATA Accreditation no. 825. Report Number: ES2022251. Report Date: 2-Jul-2020

Mothin

Authorised by Mohammad Sjam Chemist



Final - Report Number: 2846457		
BOC GASES BOMBADERRY	Sample Number:	AW079830
BOLONG ROAD	Date Sampled:	14-Jan-2020
BOMADERRY NSW 2541 AUSTRALIA	Date Received:	15-Jan-2020
Sold To: 0150199259 Ship To: 0150199259	Date Completed:	24-Jan-2020
Representative: Clive Stacey	Date Authorised:	29-Jan-2020

This sample was analysed as received, the results being as follows:

Sampling point: Tradewaste

Testing Laboratory: ALS Environmental

Water

Cations - Metals	Test Method	Total
Aluminium (Al)	EG005T	0.18 mg/L
Antimony (Sb)	EG005T	<0.01 mg/I
Barium (Ba)	EG005T	<0.1 mg/I
Beryllium (Be)	EG005T	<0.01 mg/I
Boron (B)	EG005T	<0.1 mg/I
Cadmium (Cd)	EG005T	<0.005 mg/I
Calcium (Ca)	ED093T	29 mg/I
Chromium (Cr)	EG005T	<0.01 mg/I
Cobalt (Co)	EG005T	<0.01 mg/I
Copper (Cu)	EG005T	0.05 mg/I
Iron (Fe)	EG005T	0.18 mg/I
Lead (Pb)	EG005T	<0.01 mg/I
Magnesium (Mg)	ED093T	6 mg/I
Manganese (Mn)	EG005T	0.01 mg/I
Molybdenum (Mo)	EG005T	<0.01 mg/I
Nickel (Ni)	EG005T	<0.01 mg/I
Potassium (K)	ED093T	2 mg/I
Silica (SiO2)	ED040T	3.2 mg/I
Sodium (Na)	ED093T	32 mg/I
Strontium (Sr)	EG005T	<0.1 mg/I
Tin (Sn)	EG005T	<0.01 mg/I
Titanium (Ti)	EG005T	<0.01 mg/I
Vanadium (V)	EG005T	<0.01 mg/I
Zinc (Zn)	EG005T	1.38 mg/L

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Authorised by Mohammad Sjam Chemist



Total

1.50 mg/L

Final - Report Number: 2846457		
BOC GASES BOMBADERRY	Sample Number:	AW079830
BOLONG ROAD	Date Sampled:	14-Jan-2020
BOMADERRY NSW 2541 AUSTRALIA	Date Received:	15-Jan-2020
Sold To: 0150199259 Ship To: 0150199259	Date Completed:	24-Jan-2020
Representative: Clive Stacey	Date Authorised:	29-Jan-2020

Summary Report

This sample was analysed as received, the results being as follows:

Sampling point: Tradewaste

Itsume Laboratory. ALS Environmental	Testing	Laboratory:	ALS	Environmental
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Filtered
24.4 mg/L

Phosphate Test Method: EK067G

Total Phosphorus (P)

Physical	Test Method	Total
Conductivity at 25°C	EA010-P	350 µS/cm
рН @ 25°С	EA005-P	5.35 pH Units
Total Suspended Solids @ 105°C	EA025H	<5 mg/L
Demand	Test Method	Total
BOD (5-Day)	EP030	141 mg/L
Organic Carbon (C)	EP005	88 mg/L
Chemical Oxygen Demand (O2)	EP026SP	278 mg/L
Other	Test Method	Total
Ammonia (NH3-N)	EK055G	<0.01 mg/L
Oil and Grease - Total	EP020	<5 mg/L

Testing services provided by: ALS Environmental. NATA Accreditation no. 825. Report Number: ES2001130. Report Date: 24-Jan-2020

Mother

Authorised by Mohammad Sjam Chemist



Final - Report Number: 2750740		
BOC GASES BOMBADERRY	Sample Number:	AW077938
BOLONG ROAD	Date Sampled:	17-Sep-2019
BOMADERRY NSW 2541 AUSTRALIA	Date Received:	18-Sep-2019
Sold To: 0150199259 Ship To: 0150199259	Date Completed:	26-Sep-2019
Representative: Clive Stacey	Date Authorised:	30-Sep-2019

This sample was analysed as received, the results being as follows:

Sampling point: BOC Bomaderry-EPA Licence point

Alkalinity Test Method: ED037-P		Tota
Total Alkalinity (CaCO3)		56 mg/l
Phosphate Test Method: EK067G		Tota
Total Phosphate (PO4)		0.19 mg/I
Physical	Test Method	Tota
Conductivity at 25°C	ЕА010-Р	257 μS/cn
рН @ 25°С	EA005-P	5.38 pH Unit

Demand	Test Method	Total
BOD (5-Day)	EP030	107 mg/L
Chemical Oxygen Demand (O2)	EP026SP	141 mg/L

Other	Test Method	Total
Free Carbon Dioxide	EA165-P	467 mg/L
Total Carbon Dioxide	EA165-P	516 mg/L
Ethanol	EP117	28.5 mg/L
Nitrogen (N)	EK062G	0.2 mg/L

Testing services provided by: ALS Environmental. NATA Accreditation no. 825. Report Number: ES1930148. Report Date: 26-Sep-2019

Mothin

Authorised by Mohammad Sjam Chemist



Final - Report Number: 2378708		
BOC GASES BOMBADERRY	Sample Number	AW069979
BOLONG ROAD	Date Sampled	15-Jun-2018
BOMADERRY NSW 2541 AUSTRALIA	Date Received	18-Jun-2018
Sold To: 0150199259 Ship To: 0150199259	Date Completed	27-Jun-2018
Representative: Clive Stacey	Date Authorised	27-Jun-2018

This sample was analysed as received, the results being as follows:

Sampling point: BOC Bomaderry-EPA Licence point

Testing Laboratory: ALS Environmental Water

Alkalinity Test Method: ED037-P	Total
Total Alkalinity (CaCO3)	33 mg/L

Phosphate Test Method: EK067G	Total
Total Phosphate (PO4)	0.35 mg/L

Physical	Test Method	Total
Conductivity at 25°C	EA010-P	253 µS/cm
pH @ 25°C	EA005-P	4.93 pH Units

Demand	Test Method	Total
BOD (5-Day)	EP030	645 mg/L
Chemical Oxygen Demand (O2)	EP026ST	826 mg/L

Other	Test Method	Total
Free Carbon Dioxide	EA165-P	775 mg/L
Total Carbon Dioxide	EA165-P	804 mg/L
Ethanol	EP117	666 mg/L
Nitrogen (N)	EK062G	1.2 mg/L

Testing services provided by: ALS Environmental. NATA Accreditation no. 825. Report Number: ES1817710. Report Date: 25-Jun-2018

MAD Day

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AW069552
17-May-2018
18-May-2018
29-May-2018
30-May-2018

This sample was analysed as received, the results being as follows:

Sampling point: CT RECIRCULATING

Final - Report Number: 2355593

Testing Laboratory: ALS Environmental

Water

Cations - Metals	Test Method	Total
Aluminium (Al)	EG005T	0.26 mg/L
Barium (Ba)	EG005T	<0.1 mg/L
Beryllium (Be)	EG005T	<0.01 mg/L
Boron (B)	EG005T	<0.1 mg/L
Cadmium (Cd)	EG005T	<0.005 mg/L
Calcium (Ca)	ED093T	105 mg/L
Chromium (Cr)	EG005T	<0.01 mg/L
Cobalt (Co)	EG005T	<0.01 mg/L
Copper (Cu)	EG005T	0.05 mg/L
Iron (Fe)	EG005T	0.31 mg/L
Lead (Pb)	EG005T	<0.01 mg/L
Magnesium (Mg)	ED093T	25 mg/L
Manganese (Mn)	EG005T	0.05 mg/L
Molybdenum (Mo)	EG005T	<0.01 mg/L
Nickel (Ni)	EG005T	<0.01 mg/L
Potassium (K)	ED093T	7 mg/L
Sodium (Na)	ED093T	93 mg/L
Strontium (Sr)	EG005T	0.2 mg/L
Titanium (Ti)	EG005T	<0.01 mg/L
Vanadium (V)	EG005T	<0.01 mg/L
Zinc (Zn)	EG005T	1.46 mg/L

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Total

258 mg/L

<5 mg/L

BOC GASES BOMBADERRY	Sample Number	AW069552
BOLONG ROAD	Date Sampled	17-May-2018
BOMADERRY NSW 2541 AUSTRALIA	Date Received	18-May-2018
Sold To: 0150199259 Ship To: 0150199259	Date Completed	29-May-2018
Representative: Clive Stacey	Date Authorised	30-May-2018

Summary Report

This sample was analysed as received, the results being as follows:

Sampling point: CT RECIRCULATING

Final - Report Number: 2355593

Testing Laboratory: ALS Environmental

Chloride (Cl) 161 mg/L	

Alkalinity Test Method: ED037-P

Total Suspended Solids @ 105°C

Total Alkalinity (CaCO3)

Phosphate Ortho Phosphate (PO4)	Test Method EK071FG	Filtered 2.60 mg/L	Total
Total Phosphate (PO4)	EK067G		4.11 mg/L
Physical	Test Method		Total
Conductivity at 25°C	EA010-P		1150 µS/cm
рН @ 25°С	EA005-P		8.32 pH Units

EA025H

Testing services provided by: ALS Environmental. NATA Accreditation no. 825. Report Number: ES1814340. Report Date: 28-May-2018



Authorised by Mohammad Sjam Chemist



Final - Report Number: 2097426		
BOC GASES BOMBADERRY	Sample Number	AW064155
BOLONG ROAD	Date Sampled	2-Jul-2017
BOMADERRY NSW 2541 AUSTRALIA	Date Received	3-Jul-2017
Sold To: 0150199259 Ship To: 0150199259	Date Completed	14-Jul-2017
Representative: Clive Stacey	Date Authorised	14-Jul-2017

This sample was analysed as received, the results being as follows:

Sampling point: BOC Bomaderry-EPA Licence point

Testing Laboratory: ALS Environmental Water

Alkalinity Test Method: ED037-P	Total
Total Alkalinity (CaCO3)	82 mg/L

Phosphate Test Method: EK067G	Total
Total Phosphate (PO4)	2.11 mg/L

Physical	Test Method	Total
Conductivity at 25°C	EA010-P	525 µS/cm
рН @ 25°С	EA005-P	5.65 pH Units

Demand	Test Method	Total
BOD (5-Day)	EP030	93 mg/L
Chemical Oxygen Demand (O2)	EP026ST	238 mg/L

Other	Test Method	Total
Free Carbon Dioxide	EA165-P	367 mg/L
Total Carbon Dioxide	EA165-P	439 mg/L
Ethanol	EP117	63.3 mg/L
Nitrogen (N)	EK062G	1.8 mg/L

Testing services provided by: ALS Environmental. NATA Accreditation no. 825. Report Number: ES1716254. Report Date: 10-Jul-2017

Testing services provided by: ALS Environmental. NATA Accreditation no. 825. Report Number: ES1716254. Report Date: 14-Jul-2017

Thello

Authorised by Mohammad Sjam Chemist

Customer Analytical Services Ecolab Nalco Unit 12, 2 Eden Park Drive Macquarie Park NSW 2113 Phone: (612)8870 8433 Email: customeranalyticalservices@nalco.com



Final - Report Number: 1782919		
BOC GASES BOMBADERRY	Sample Number	AW058325
BOLONG ROAD	Date Sampled	22-Jun-2016
BOMADERRY NSW 2541 AUSTRALIA	Date Received	23-Jun-2016
Sold To: 0150199259 Ship To: 0150199259	Date Completed	7-Jul-2016
Representative: CLIVE STACEY	Date Authorised	7-Jul-2016

Summary Report

This sample was analysed as received, the results being as follows:

Total Alkalinity (CaCO3)45Phosphate Test Method: EK067G Total Phosphate (PO4)0.50PhysicalTest Method EA010-P263 µPh @ 25°CEA010-P263 µDemandTest Method EA005-P5.14 µHDemandTest Method EP030179Chemical Oxygen Demand (O2)EP026ST390Other AnalytesTest Method EA165-P652	g point: BOC Bomaderry-EPA Licence point		
Total Alkalinity (CaCO3)45Phosphate Test Method: EK067G Total Phosphate (PO4)0.50PhysicalTest Method EA010-P263 µPh @ 25°CEA010-P263 µDemandTest Method EA005-P5.14 µHDemandTest Method EP030179Chemical Oxygen Demand (O2)EP026ST390Other AnalytesTest Method EA165-P652	Laboratory: ALS Environmental		
Total Alkalinity (CaCO3)45Phosphate Test Method: EK067G Total Phosphate (PO4)0.50PhysicalTest Method EA010-P263 µPh @ 25°CEA010-P263 µDemandTest Method EA005-P5.14 µHDemandTest Method EP030179Chemical Oxygen Demand (O2)EP026ST390Other AnalytesTest Method EA165-P652			
Total Alkalinity (CaCO3)45Phosphate Test Method: EK067G Total Phosphate (PO4)0.50PhysicalTest Method EA010-P263 µPh @ 25°CEA010-P263 µDemandTest Method EA005-P5.14 µHDemandTest Method EP030179Chemical Oxygen Demand (O2)EP026ST390Other AnalytesTest Method EA165-P652	Allesteriter Test Methods FD027 D		Total
Phosphate Test Method: EK067G 0.50 Total Phosphate (PO4) 0.50 Physical Test Method Conductivity at 25°C EA010-P pH @ 25°C EA005-P Demand Test Method BOD (5-Day) EP030 Chemical Oxygen Demand (O2) EP026ST Other Analytes Test Method Free Carbon Dioxide EA165-P			45 mg/L
Total Phosphate (PO4)0.50PhysicalTest MethodConductivity at 25°CEA010-PpH @ 25°CEA005-PDemandTest MethodBOD (5-Day)EP030Chemical Oxygen Demand (O2)EP026STOther AnalytesTest MethodFree Carbon DioxideEA165-P652			43 mg/L
PhysicalTest MethodConductivity at 25°CEA010-PpH @ 25°CEA005-P5.14 pHDemandTest MethodBOD (5-Day)EP030Chemical Oxygen Demand (O2)EP026STOther AnalytesTest MethodFree Carbon DioxideEA165-P652	Phosphate Test Method: EK067G		Total
Conductivity at 25°CEA010-P263 µpH @ 25°CEA005-P5.14 pHDemandBOD (5-Day)EP030179Chemical Oxygen Demand (O2)EP026ST390Other AnalytesTest MethodFree Carbon DioxideEA165-P652	Total Phosphate (PO4)		0.50 mg/L
DemandTest MethodBOD (5-Day)EP030Chemical Oxygen Demand (O2)EP026STOther AnalytesTest MethodFree Carbon DioxideEA165-P652	Conductivity at 25°C	EA010-P	Total 263 μS/cm 5.14 pH Units
Chemical Oxygen Demand (O2)EP026ST390Other AnalytesTest MethodFree Carbon DioxideEA165-P652			Total 179 mg/L
Free Carbon DioxideEA165-P652			390 mg/L
Free Carbon DioxideEA165-P652	Other Analytes	Test Method	Total
			652 mg/L
			99.7 mg/L
Nitrogen (N) EK062G 0.8			0.8 mg/L

Testing services provided by: ALS Environmental. NATA accreditation number 825. Refer attached document for ALS Environmental NATA accredited report.

Authorised by Mohammad Sjam Chemist

Customer Analytical Services

Gate 5 / 3 Anderson Street Botany NSW2019

Phone: (612) 9392 3708 Fax: (612) 9392 3722 Email: customeranalyticalservices@nalco.com



BOC GASES BOMBADERRY	Sample Number	AW049261
BOLONG ROAD	Date Sampled	30-Jan-2015
BOMADERRY NSW 2541 AUSTRALIA	Date Received	31-Jan-2015
Sold To: 0150199259 Ship To: 0150199259	Date Completed	10-Feb-2015
Representative: NATHAN EDWARD PETERSEN	Date Authorised	11-Feb-2015

Analytical Report

This sample was analysed as received, the results being as follows:

Sampling point: BOC Bomaderry-EPA Licence point

Final - Report Number: 1353870

Water

Alkalinity Test Method: *CA12121 (CA11113) Total Alkalinity (CaCO3)	Total 29 mg/L
Phenolphthalein Alkalinity (CaCO3)	<25 mg/L
Bicarbonate (CaCO3)	29 mg/L
Phosphate Test Method: *CA13200 Total Phosphate (PO4)	Total <0.1 mg/L

Physical	Test Method	Total
Conductivity at 25°C	*CA11116	190 µS/cm
рН @ 25°С	*A-4.4	4.9 pH Units

Demand Test Method: *External	Total
BOD (5-Day)	19 mg/L
Chemical Oxygen Demand (O2)	37 mg/L

Other Analytes	Test Method	Total
Free Carbon Dioxide (calculated)	CA11147	730 mg/L
Ethanol	*External	9.46 mg/L

Other	Test Method: CA13204	Total
Nitrog	gen (N)	<1.3 mg/L

External Analysis Performed By: Australian Laboratory Services. NATA Accreditation no. 825. Report Number: ES1502251. Report Date: 9-Feb -2015 Ethanol Biological Oxygen Demand (BOD) COD

* The indicated analyses are included in the NATA scope of accreditation.



Accreditation Number 1099 Accredited for compliance with ISO/IEC 17025. T

Authorised by Thanh Hoang Le Senior Chemist



NALCO An Ecolab Company

Phone: (612) 9392 3708 Fax: (612) 9392 3722 Email: customeranalyticalservices@nalco.com

Final - Report Number: 1202564		
BOC GASES BOMBADERRY	Sample Number	AW043791
BOLONG ROAD	Date Sampled	10-Jul-2014
BOMADERRY NSW 2541 AUSTRALIA	Date Received	12-Jul-2014
Sold To: 0150199259 Ship To: 0150199259	Date Completed	24-Jul-2014
Representative: Nathan Edward Petersen	Date Authorised	25-Jul-2014

Analytical Report

This sample was analysed as received, the results being as follows:

Sampling point: BOC Bomaderry-EPA Licence point

Water

Alkalinity Test Method: *CA12121		Total
Total Alkalinity (CaCO3)		33 mg/L
Phenolphthalein Alkalinity (CaCO3)		<25 mg/L
Bicarbonate (CaCO3)		33 mg/L
Phosphate Test Method: *CA13200		Total
Total Phosphate (PO4)		<0.1 mg/L
Physical Test Method: *CA12121		Total
Conductivity at 25°C		210 µS/cm
mII @ 25%C		5.0 pH Units
рН @ 25°С		
Demand Test Method: *External BOD (5-Day)		Total 50 mg/L
Demand Test Method: *External		Total
Demand Test Method: *External BOD (5-Day) Chemical Oxygen Demand (O2)	Test Method	Total 50 mg/L
Demand Test Method: *External BOD (5-Day) Chemical Oxygen Demand (O2) Other Analytes	Test Method CA11147	Total 50 mg/L 120 mg/L
Demand Test Method: *External BOD (5-Day) Chemical Oxygen Demand (O2)		Total 50 mg/L 120 mg/L Total
Demand Test Method: *External BOD (5-Day) Chemical Oxygen Demand (O2) Other Analytes Free Carbon Dioxide (calculated)	CA11147	Total 50 mg/L 120 mg/L Total 660 mg/L

 External Analysis Performed By: Australian Laboratory Services. NATA Accreditation no. 825. Report Number: ES1415392. Report Date: 21-Jul-2014

 Ethanol
 Biological Oxygen Demand (BOD)

 COD

* The indicated analyses are included in the NATA scope of accreditation.



Accreditation Number 1099 Accredited for compliance with ISO/IEC 17025.

L.B.U

Authorized by Lynette M Bissell Chemist



Phone: (612) 9392 3708 Fax: (612) 9392 3722 Email: customeranalyticalservices@nalco.com



Final - Report Number: 1070584		
BOC GASES BOMBADERRY	Sample Number	AW038367
BOLONG ROAD	Date Sampled	21-Jan-2014
BOMADERRY NSW 2541 AUSTRALIA	Date Received	22-Jan-2014
Sold To: 0150199259 Ship To: 0150199259	Date Completed	5-Feb-2014
Representative: Thorsten Kaschubs	Date Authorised	5-Feb-2014

Analytical Report

This sample was analysed as received, the results being as follows:

Alkalinity Test Method: *CA12121	Tot
Total Alkalinity (CaCO3)	46 mg
Phosphate Test Method: *CA13200	Το
Total Phosphate (PO4)	0.1 mg
Physical Test Method: *CA12121	То
Conductivity at 25°C	210 µS/
рН @ 25°С	5.7 pH Ur
Demand Test Method: *External	То
BOD (5-Day)	10 mg
Chemical Oxygen Demand (O2)	26 m _i
Other Analytes Test Method: External	То
Ethanol	6.91 m
Other Tree Mathed & CA 12204	T
Other Test Method: *CA13204	To

•Free Carbon Dioxide as CO2 = 248 mg/L. External Analysis Performed by: ALS. NATA Accreditation Number 825. Report Number ES 1401610. Report Date: 04/02/2014.

* The indicated analyses are included in the NATA scope of accreditation.



Accreditation Number 1099 Site Number 1092 Accredited for compliance with ISO/IEC 17025.

Authorized by Thanh Hoang Le Senior Chemist



AW038367

21-Jan-2014

22-Jan-2014

5-Feb-2014

5-Feb-2014

Sample Number

Date Sampled

Date Received

Date Completed

Date Authorised

Phone: (612) 9392 3708 Fax: (612) 9392 3722 Email: customeranalyticalservices@nalco.com

Final - Report Number: 1070584 **BOC GASES BOMBADERRY** BOLONG ROAD BOMADERRY NSW 2541 AUSTRALIA Sold To: 0150199259 Ship To: 0150199259 Representative: Thorsten Kaschubs

Analytical Report

This sample was analysed as received, the results being as follows:

Sampling point: BOC Bomaderry-EPA Licence point

External Analysis Performed By: Australian Laboratory Services. NATA Accreditation no. 825. Report Number: ES1401317. Report Date: 30-Jan-2014 Biological Oxygen Demand (BOD)

COD

External Analysis Performed By: Australian Laboratory Services. NATA Accreditation no. 825. Report Number: ES1401610. Report Date: 4-Feb -2014

Ethanol

* The indicated analyses are included in the NATA scope of accreditation.



Accreditation Number 1099 Site Number 1092 Accredited for compliance with ISO/IEC 17025.

Authorized by Thanh Hoang Le Senior Chemist



NALCO ECOLAB An Ecolab Company

Phone: (612) 9392 3708 Fax: (612) 9392 3722 Email: customeranalyticalservices@nalco.com

Final - Report Number: 923876		
BOC GASES BOMBADERRY	Sample Number	AW032034
BOLONG ROAD	Date Sampled	1-Jul-2013
BOMADERRY NSW 2541 AUSTRALIA	Date Received	2-Jul-2013
Sold To: 0150199259 Ship To: 0150199259	Date Completed	16-Jul-2013
Representative: Thorsten Kaschubs	Date Authorised	17-Jul-2013

Analytical Report

This sample was analysed as received, the results being as follows:

Sampling point: BOC Bomaderry-EPA Licence point Water Alkalinity Test Method: *CA12121 Total Total Alkalinity (CaCO3) 39 mg/L Phenolphthalein Alkalinity (CaCO3) <25 mg/L Phosphate Test Method: *CA13200 Total Total Phosphate (PO4) 0.1 mg/L

Physical Test Method: *CA12121	Total
Conductivity at 25°C	260 µS/cm
рН @ 25°С	5.0 pH Units

Demand Test Method: *External	Total
BOD (5-Day)	52 mg/L
Chemical Oxygen Demand (O2)	103 mg/L

Other Analytes	Test Method	Total
Ethanol	External	12.7 mg/L
Nitrogen (N)	*CA13204	<1.0 mg/L

•Free Carbon Dioxide analysis performed by ALS. NATA Accreditation Number: 825. Report number: ES1314994. Report Date: 09/07/2013 •Free Carbon Dioxide as CO2 = 284 mg/L

External Analysis Performed By: Australian Laboratory Services. NATA Accreditation no. 825. Report Number: ES1314994. Report Date: 11-Jul-2013 Ethanol

Biological Oxygen Demand (BOD)

COD

* The indicated analyses are included in the NATA scope of accreditation.



Accreditation Number 1099 Site Number 1092 Accredited for compliance with ISO/IEC 17025.

WORLD RECOGNISED

Authorized by Antigoni Cinelli Senior Chemist

Customer Analytical Services



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Additional - Report Number: 790670 Replaces previous report number: 664766 23-Jul-2012 23:33 BOC BOL BOM Sold Rep

C GASES BOMBADERRY	Sample Number	AW017447
LONG ROAD	Date Sampled	28-Jun-2012
MADERRY NSW 2541 AUSTRALIA	Date Received	29-Jun-2012
d To: 0150199259 Ship To: 0150199259	Date Completed	9-Jan-2013
presentative: Mr Kaschubs Thorsten	Date Authorised	9-Jan-2013

Analytical Report

This sample was analysed as received, the results being as follows:

ling point: BOC Bomaderry-EPA Licence point		
Alkalinity Test Method: *CA11113		Tot
Total Alkalinity (CaCO3)		140 mg/
Phenolphthalein Alkalinity (CaCO3)		<20 mg/
Phosphate Test Method: *CA13200		Tota
Total Phosphate (PO4)		6.3 mg/
pH @ 25°C		5.5 pl
		_
Demand Test Method: *External		Tota
BOD (5-Day)		158 mg/
Chemical Oxygen Demand (O2)		541 mg/
Other Analytes	Test Method	Tota
Other Analytes Ethanol	Test Method External	Tota 112 mg/

•Free Carbon Dioxide as CO2 = 231 mg/L

Nitrogen (N)

External Analysis Performed By: Australian Laboratory Services. NATA Accreditation no. 825. Report Number: ES01216206. Report Date: 1-Jul-2012

*CA13204

Ethanol

External Analysis Performed By: Australian Laboratory Services. NATA Accreditation no. 825. Report Number: ES1216206. Report Date: 9-Jul-2012 COD

Biological Oxygen Demand (BOD)

* The indicated analyses are included in the NATA scope of accreditation.



Accreditation Number 1099 Site Number 1092 Accredited for compliance with ISO/IEC 17025.

Authorized by Samantha Fraser Analytical Laboratory Supervisor

7.3 mg/L

Customer Analytical Services

2 Anderson Street Botany NSW 2019

{@phoneLabel} {@faxLabel} {@eMailLabel}



Interim - Report Number: 790669		
BOC GASES - BOMBADERRY	Sample Number	AW024315
BOLONG ROAD	Date Sampled	20-Dec-2012
BOMADERRY NSW 2541 AUSTRALIA	Date Received	21-Dec-2012
Sold To: 0150140155 Ship To: 0150146636	Date Completed	
Representative: Mr Kaschubs Thorsten	Date Authorised	

Analytical Report

This sample was analysed as received, the results being as follows:

Sampling point: Grab Sample - Discharge & Monitoring Point 1

Water

Alkalinity Test Method: *CA12121	Total
Total Alkalinity (CaCO3)	49 mg/L
Phenolphthalein Alkalinity (CaCO3)	<25 mg/L
Bicarbonate (CaCO3)	49 mg/L
Phosphate Test Method: *CA13200	Total
Total Phosphate (PO4)	<0.1 mg/L

Physical	Test Method: *CA12121	Total
Conduct	ivity at 25°C	260 µS/cm
pH @ 25	5°C	5.8 pH

Demand	Test Method: *External	Total
BOD (5	-Day)	113 mg/L
Chemica	al Oxygen Demand (O2)	252 mg/L

Other Analytes	Test Method	Total
Ethanol	External	58.100 mg/L
Nitrogen (N)	*CA13204	<1.1 mg/L

External Analysis Performed By: Australian Laboratory Services. NATA Accreditation no. 825. Report Number: ES1230342. Report Date: 3-Jan -2013

COD

Ethanol

Biological Oxygen Demand (BOD)

* The indicated analyses are included in the NATA scope of accreditation.



Accreditation Number 1099 Site Number 1092 Accredited for compliance with ISO/IEC 17025.