

Final - Report Number: 3631168

BOC GASES BOMADERRY

BOLONG ROAD

BOMADERRY NSW 2541 AUSTRALIA

Sold To: 0150199259 Ship To: 0150199259

Representative: Mark Landstra

Sample Number: AW098314

Date Sampled: 30-Nov-2022

Date Received: 02-Dec-2022

Date Completed: 12-Dec-2022

Date Authorised: 21-Dec-2022

Summary Report

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 (CaCO ₃)		63 mg/L

Phosphate	Test Method: EK067G	Total
Total Phosphate (PO ₄)		0.48 mg/L

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

Demand	Test Method	Total
BOD (5-Day)	EP030	177 mg/L
Chemical Oxygen Demand (O ₂)	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

Final - Report Number: 3394231

BOC GASES BOMBADERRY

BOLONG ROAD

BOMADERRY NSW 2541 AUSTRALIA

Sold To: 0150199259 **Ship To:** 0150199259

Representative: Clive Stacey

Sample Number: AW092282

Date Sampled: 18-Jan-2022

Date Received: 19-Jan-2022

Date Completed: 27-Jan-2022

Date Authorised: 27-Jan-2022

Summary Report

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 (CaCO ₃)		58 mg/L

Phosphate	Test Method: EK067G	Total
Total Phosphate (PO ₄)		1.89 mg/L

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

Demand	Test Method	Total
BOD (5-Day)	EP030	196 mg/L
Chemical Oxygen Demand (O ₂)	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



Authorised by Mohammad Sjam
Chemist

Final - Report Number: 3262075

BOC GASES BOMBADERRY

BOLONG ROAD

BOMADERRY NSW 2541 AUSTRALIA

Sold To: 0150199259 Ship To: 0150199259

Representative: Clive Stacey

Sample Number: AW088977

Date Sampled: 22-Jul-2021

Date Received: 23-Jul-2021

Date Completed: 29-Jul-2021

Date Authorised: 03-Aug-2021

Summary Report

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

Sampling point: Waste Water

Testing Laboratory: ALS Environmental

Water

Cations - Metals	Test Method	Total
Aluminium (Al)	EG005T	0.15 mg/L
Antimony (Sb)	EG005T	<0.01 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	42 mg/L
Chromium (Cr)	EG005T	<0.01 mg/L
Cobalt (Co)	EG005T	<0.01 mg/L
Copper (Cu)	EG005T	0.18 mg/L
Iron (Fe)	EG005T	0.42 mg/L
Lead (Pb)	EG005T	0.10 mg/L
Magnesium (Mg)	ED093T	8 mg/L
Manganese (Mn)	EG005T	0.03 mg/L
Molybdenum (Mo)	EG005T	<0.01 mg/L
Nickel (Ni)	EG005T	<0.01 mg/L
Potassium (K)	ED093T	3 mg/L
Silica (SiO ₂)	ED040T	13.0 mg/L
Sodium (Na)	ED093T	26 mg/L
Strontium (Sr)	EG005T	<0.1 mg/L
Tin (Sn)	EG005T	<0.01 mg/L
Titanium (Ti)	EG005T	<0.01 mg/L
Vanadium (V)	EG005T	<0.01 mg/L
Zinc (Zn)	EG005T	0.31 mg/L



Authorised by Mohammad Sjam
Chemist

Final - Report Number: 3262075
BOC GASES BOMBADERRY
 BOLONG ROAD
 BOMADERRY NSW 2541 AUSTRALIA
Sold To: 0150199259 **Ship To:** 0150199259
Representative: Clive Stacey

Sample Number: AW088977
Date Sampled: 22-Jul-2021
Date Received: 23-Jul-2021
Date Completed: 29-Jul-2021
Date Authorised: 03-Aug-2021

Summary Report

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	
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Phosphate	Test Method: EK067G		Total
Total Phosphorus (P)			0.35 mg/L
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Physical	Test Method		Total
Conductivity at 25°C	EA010-P		396 µS/cm
pH @ 25°C	EA005-P		5.72 pH Units
Total Suspended Solids @ 105°C	EA025H		50 mg/L
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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
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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



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: 2961634

BOC GASES BOMBADERRY

BOLONG ROAD

BOMADERRY NSW 2541 AUSTRALIA

Sold To: 0150199259 Ship To: 0150199259

Representative: Clive Stacey

Sample Number:

AW082348

Date Sampled:

24-Jun-2020

Date Received:

26-Jun-2020

Date Completed:

03-Jul-2020

Date Authorised:

06-Jul-2020

Summary Report

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

Sampling point: Trade Waste

Testing Laboratory: ALS Environmental

Water

Cations - Metals	Test Method	Total
Aluminium (Al)	EG005T	<0.10 mg/L
Antimony (Sb)	EG005T	<0.01 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	25 mg/L
Chromium (Cr)	EG005T	<0.01 mg/L
Cobalt (Co)	EG005T	<0.01 mg/L
Copper (Cu)	EG005T	0.20 mg/L
Iron (Fe)	EG005T	<0.05 mg/L
Lead (Pb)	EG005T	<0.01 mg/L
Magnesium (Mg)	ED093T	7 mg/L
Manganese (Mn)	EG005T	<0.01 mg/L
Molybdenum (Mo)	EG005T	<0.01 mg/L
Nickel (Ni)	EG005T	<0.01 mg/L
Potassium (K)	ED093T	4 mg/L
Silica (SiO ₂)	ED040T	3.4 mg/L
Sodium (Na)	ED093T	19 mg/L
Strontium (Sr)	EG005T	<0.1 mg/L
Tin (Sn)	EG005T	<0.01 mg/L
Titanium (Ti)	EG005T	<0.01 mg/L
Vanadium (V)	EG005T	<0.01 mg/L
Zinc (Zn)	EG005T	0.05 mg/L

Authorised by Mohammad Sjam
Chemist

Final - Report Number: 2961634
BOC GASES BOMBADERRY
BOLONG ROAD
BOMADERRY NSW 2541 AUSTRALIA
Sold To: 0150199259 Ship To: 0150199259
Representative: Clive Stacey

Sample Number: AW082348
Date Sampled: 24-Jun-2020
Date Received: 26-Jun-2020
Date Completed: 03-Jul-2020
Date Authorised: 06-Jul-2020

Summary Report

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
pH @ 25°C	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



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: 2846457

BOC GASES BOMBADERRY

BOLONG ROAD

BOMADERRY NSW 2541 AUSTRALIA

Sold To: 0150199259 Ship To: 0150199259

Representative: Clive Stacey

Sample Number:

AW079830

Date Sampled:

14-Jan-2020

Date Received:

15-Jan-2020

Date Completed:

24-Jan-2020

Date Authorised:

29-Jan-2020

Summary Report

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/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	29 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	0.18 mg/L
Lead (Pb)	EG005T	<0.01 mg/L
Magnesium (Mg)	ED093T	6 mg/L
Manganese (Mn)	EG005T	0.01 mg/L
Molybdenum (Mo)	EG005T	<0.01 mg/L
Nickel (Ni)	EG005T	<0.01 mg/L
Potassium (K)	ED093T	2 mg/L
Silica (SiO ₂)	ED040T	3.2 mg/L
Sodium (Na)	ED093T	32 mg/L
Strontium (Sr)	EG005T	<0.1 mg/L
Tin (Sn)	EG005T	<0.01 mg/L
Titanium (Ti)	EG005T	<0.01 mg/L
Vanadium (V)	EG005T	<0.01 mg/L
Zinc (Zn)	EG005T	1.38 mg/L

Authorised by Mohammad Sjam
Chemist



Final - Report Number: 2846457
BOC GASES BOMBADERRY
 BOLONG ROAD
 BOMADERRY NSW 2541 AUSTRALIA
Sold To: 0150199259 **Ship To:** 0150199259
Representative: Clive Stacey

Sample Number: AW079830
Date Sampled: 14-Jan-2020
Date Received: 15-Jan-2020
Date Completed: 24-Jan-2020
Date Authorised: 29-Jan-2020

Summary Report

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

Sampling point: Tradewaste

Testing Laboratory: ALS Environmental

Anions Test Method: ED009-X	Filtered
Sulfate (SO4)	24.4 mg/L

Phosphate Test Method: EK067G	Total
Total Phosphorus (P)	1.50 mg/L

Physical	Test Method	Total
Conductivity at 25°C	EA010-P	350 µS/cm
pH @ 25°C	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

Authorised by Mohammad Sjam
 Chemist

Final - Report Number: 2750740

BOC GASES BOMBADERRY
 BOLONG ROAD
 BOMADERRY NSW 2541 AUSTRALIA

Sold To: 0150199259 **Ship To:** 0150199259

Representative: Clive Stacey

Sample Number: AW077938
Date Sampled: 17-Sep-2019
Date Received: 18-Sep-2019
Date Completed: 26-Sep-2019
Date Authorised: 30-Sep-2019

Summary Report

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)		56 mg/L

Phosphate	Test Method: EK067G	Total
Total Phosphate (PO4)		0.19 mg/L

Physical	Test Method	Total
Conductivity at 25°C	EA010-P	257 µS/cm
pH @ 25°C	EA005-P	5.38 pH Units

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



Authorised by Mohammad Sjam
 Chemist

Final - Report Number: 2378708

BOC GASES BOMBADERRY

BOLONG ROAD

BOMADERRY NSW 2541 AUSTRALIA

Sold To: 0150199259 **Ship To:** 0150199259

Representative: Clive Stacey

Sample Number

AW069979

Date Sampled

15-Jun-2018

Date Received

18-Jun-2018

Date Completed

27-Jun-2018

Date Authorised

27-Jun-2018

Summary Report

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 (CaCO ₃)		33 mg/L

Phosphate	Test Method: EK067G	Total
Total Phosphate (PO ₄)		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 (O ₂)	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



Authorised by Mohammad Sjam
 Chemist

Final - Report Number: 2355593

BOC GASES BOMBADERRY

BOLONG ROAD

BOMADERRY NSW 2541 AUSTRALIA

Sold To: 0150199259 **Ship To:** 0150199259

Representative: Clive Stacey

Sample Number

AW069552

Date Sampled

17-May-2018

Date Received

18-May-2018

Date Completed

29-May-2018

Date Authorised

30-May-2018

Summary Report

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

Sampling point: CT RECIRCULATING

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



Authorised by Mohammad Sjam
 Chemist

Final - Report Number: 2355593

BOC GASES BOMBADERRY

BOLONG ROAD

BOMADERRY NSW 2541 AUSTRALIA

Sold To: 0150199259 **Ship To:** 0150199259

Representative: Clive Stacey

Sample Number

AW069552

Date Sampled

17-May-2018

Date Received

18-May-2018

Date Completed

29-May-2018

Date Authorised

30-May-2018

Summary Report

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

Sampling point: CT RECIRCULATING

Testing Laboratory: ALS Environmental

Anions Test Method: ED009-X
 Chloride (Cl)

Filtered
 161 mg/L

Alkalinity Test Method: ED037-P
 Total Alkalinity (CaCO₃)

Total
 258 mg/L

Phosphate
 Ortho Phosphate (PO₄)
 Total Phosphate (PO₄)

Test Method
 EK071FG
 EK067G

Filtered
 2.60 mg/L

Total
 4.11 mg/L

Physical
 Conductivity at 25°C
 pH @ 25°C
 Total Suspended Solids @ 105°C

Test Method
 EA010-P
 EA005-P
 EA025H

Total
 1150 µS/cm
 8.32 pH Units
 <5 mg/L

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
BOLONG ROAD
BOMADERRY NSW 2541 AUSTRALIA
Sold To: 0150199259 Ship To: 0150199259
Representative: Clive Stacey

Sample Number AW064155
Date Sampled 2-Jul-2017
Date Received 3-Jul-2017
Date Completed 14-Jul-2017
Date Authorised 14-Jul-2017

Summary Report

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 (CaCO ₃)		82 mg/L

Phosphate	Test Method: EK067G	Total
Total Phosphate (PO ₄)		2.11 mg/L

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

Demand	Test Method	Total
BOD (5-Day)	EP030	93 mg/L
Chemical Oxygen Demand (O ₂)	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



Authorised by Mohammad Sjam
Chemist

Final - Report Number: 1782919

BOC GASES BOMBADERRY
BOLONG ROAD
BOMADERRY NSW 2541 AUSTRALIA
Sold To: 0150199259 Ship To: 0150199259
Representative: CLIVE STACEY

Sample Number AW058325
Date Sampled 22-Jun-2016
Date Received 23-Jun-2016
Date Completed 7-Jul-2016
Date Authorised 7-Jul-2016

Summary Report

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 (CaCO ₃)	45 mg/L

Phosphate Test Method: EK067G	Total
Total Phosphate (PO ₄)	0.50 mg/L

Physical	Test Method	Total
Conductivity at 25°C	EA010-P	263 µS/cm
pH @ 25°C	EA005-P	5.14 pH Units

Demand	Test Method	Total
BOD (5-Day)	EP030	179 mg/L
Chemical Oxygen Demand (O ₂)	EP026ST	390 mg/L

Other Analytes	Test Method	Total
Free Carbon Dioxide	EA165-P	652 mg/L
Ethanol	EP117	99.7 mg/L
Nitrogen (N)	EK062G	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

NALCO

An Ecolab Company

Final - Report Number: 1353870

BOC GASES BOMBADERRY

BOLONG ROAD

BOMADERRY NSW 2541 AUSTRALIA

Sold To: 0150199259 Ship To: 0150199259

Representative: NATHAN EDWARD PETERSEN

Sample Number AW049261

Date Sampled 30-Jan-2015

Date Received 31-Jan-2015

Date Completed 10-Feb-2015

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

Water

Alkalinity Test Method: *CA12121 (CA11113)	Total
Total Alkalinity (CaCO ₃)	29 mg/L
Phenolphthalein Alkalinity (CaCO ₃)	<25 mg/L
Bicarbonate (CaCO ₃)	29 mg/L

Phosphate Test Method: *CA13200	Total
Total Phosphate (PO ₄)	<0.1 mg/L

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

Demand Test Method: *External	Total
BOD (5-Day)	19 mg/L
Chemical Oxygen Demand (O ₂)	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
Nitrogen (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.

Authorised by Thanh Hoang Le
Senior Chemist

Customer Analytical Services

Gate 5 / 3 Anderson Street Botany NSW 2019

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



Final - Report Number: 1202564

BOC GASES BOMBADERRY

BOLONG ROAD

BOMADERRY NSW 2541 AUSTRALIA

Sold To: 0150199259 Ship To: 0150199259

Representative: Nathan Edward Petersen

Sample Number

AW043791

Date Sampled

10-Jul-2014

Date Received

12-Jul-2014

Date Completed

24-Jul-2014

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 (CaCO ₃)	33 mg/L
Phenolphthalein Alkalinity (CaCO ₃)	<25 mg/L
Bicarbonate (CaCO ₃)	33 mg/L

Phosphate Test Method: *CA13200	Total
Total Phosphate (PO ₄)	<0.1 mg/L

Physical Test Method: *CA12121	Total
Conductivity at 25°C	210 µS/cm
pH @ 25°C	5.0 pH Units

Demand Test Method: *External	Total
BOD (5-Day)	50 mg/L
Chemical Oxygen Demand (O ₂)	120 mg/L

Other Analytes	Test Method	Total
Free Carbon Dioxide (calculated)	CA11147	660 mg/L
Ethanol	External	21.100 mg/L

Other Test Method: *CA13204	Total
Nitrogen (N)	<1.0 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. M.

Authorized by Lynette M Bissell
Chemist

Customer Analytical Services

Gate 5 / 3 Anderson Street Botany NSW 2019

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

Sample Number

AW038367

Date Sampled

21-Jan-2014

Date Received

22-Jan-2014

Date Completed

5-Feb-2014

Date Authorised

5-Feb-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 (CaCO ₃)	46 mg/L

Phosphate Test Method: *CA13200	Total
Total Phosphate (PO ₄)	0.1 mg/L

Physical Test Method: *CA12121	Total
Conductivity at 25°C	210 µS/cm
pH @ 25°C	5.7 pH Units

Demand Test Method: *External	Total
BOD (5-Day)	10 mg/L
Chemical Oxygen Demand (O ₂)	26 mg/L

Other Analytes Test Method: External	Total
Ethanol	6.91 mg/L

Other Test Method: *CA13204	Total
Nitrogen (N)	<1.0 mg/L

•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

Customer Analytical Services

Gate 5 / 3 Anderson Street Botany NSW 2019

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

Sample Number

AW038367

Date Sampled

21-Jan-2014

Date Received

22-Jan-2014

Date Completed

5-Feb-2014

Date Authorised

5-Feb-2014

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

COD

Biological Oxygen Demand (BOD)

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

Customer Analytical Services

Gate 5 / 3 Anderson Street Botany NSW 2019

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



Final - Report Number: 923876

BOC GASES BOMBADERRY

BOLONG ROAD

BOMADERRY NSW 2541 AUSTRALIA

Sold To: 0150199259 Ship To: 0150199259

Representative: Thorsten Kaschubs

Sample Number

AW032034

Date Sampled

1-Jul-2013

Date Received

2-Jul-2013

Date Completed

16-Jul-2013

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 (CaCO ₃)		39 mg/L
Phenolphthalein Alkalinity (CaCO ₃)		<25 mg/L

Phosphate	Test Method: *CA13200	Total
Total Phosphate (PO ₄)		0.1 mg/L

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

Demand	Test Method: *External	Total
BOD (5-Day)		52 mg/L
Chemical Oxygen Demand (O ₂)		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.

Authorized by Antigoni Cinelli
Senior Chemist

Additional - Report Number: 790670

Replaces previous report number: 664766 23-Jul-2012 23:33

BOC GASES BOMBADERRY

BOLONG ROAD

BOMADERRY NSW 2541 AUSTRALIA

Sold To: 0150199259 **Ship To:** 0150199259

Representative: Mr Kaschubs Thorsten

Sample Number

AW017447

Date Sampled

28-Jun-2012

Date Received

29-Jun-2012

Date Completed

9-Jan-2013

Date Authorised

9-Jan-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: *CA11113	Total
Total Alkalinity (CaCO ₃)		140 mg/L
Phenolphthalein Alkalinity (CaCO ₃)		<20 mg/L

Phosphate	Test Method: *CA13200	Total
Total Phosphate (PO ₄)		6.3 mg/L

Physical	Test Method: *A-6.18	Total
pH @ 25°C		5.5 pH

Demand	Test Method: *External	Total
BOD (5-Day)		158 mg/L
Chemical Oxygen Demand (O ₂)		541 mg/L

Other Analytes	Test Method	Total
Ethanol	External	112 mg/L
Nitrogen (N)	*CA13204	7.3 mg/L

•Free Carbon Dioxide as CO₂ = 231 mg/L

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

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

Authorized by Samantha Fraser
 Analytical Laboratory Supervisor

Interim - Report Number: 790669

BOC GASES - BOMBADERRY

BOLONG ROAD

BOMADERRY NSW 2541 AUSTRALIA

Sold To: 0150140155 **Ship To:** 0150146636

Representative: Mr Kaschubs Thorsten

Sample Number

AW024315

Date Sampled

20-Dec-2012

Date Received

21-Dec-2012

Date Completed

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 (CaCO ₃)		49 mg/L
Phenolphthalein Alkalinity (CaCO ₃)		<25 mg/L
Bicarbonate (CaCO ₃)		49 mg/L

Phosphate	Test Method: *CA13200	Total
Total Phosphate (PO ₄)		<0.1 mg/L

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

Demand	Test Method: *External	Total
BOD (5-Day)		113 mg/L
Chemical Oxygen Demand (O ₂)		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.

Authorized by