

BOC GASES BOMADERRY

BOLONG ROAD

BOMADERRY NSW 2541 AUSTRALIA

Sold To: 0509207512 Ship To:

Representative: Mark Landstra

Sample Taken From: TRADEWASTE

Date Sampled: 06-Sep-2026

Final - Report Number: 4747365

Sample Number: AW128146

Date Received: 07-Sep-2026

Date Completed: 16-Sep-2026

Date Authorised: 18-Sep-2026

Analytical Report

Results apply to the sample as received:

Testing Laboratory: ALS Environmental

Water

Anions Test Method: EK059G

Nitrate and Nitrite (N)

Filtered

0.15 mg/L

Alkalinity Test Method: ED037-P

Total Alkalinity (CaCO₃)

Total

66 mg/L

Phenolphthalein Alkalinity (CaCO₃)

<1 mg/L

Phosphate Test Method: EK067G

Total Phosphate (PO₄)

Total

0.41 mg/L

Total Phosphorus (P)

0.14 mg/L

Physical

Test Method

Total

Conductivity at 25°C

EA010-P

293 µS/cm

pH @ 25°C

EA005-P

5.85 pH Units

Demand

Test Method

Total

BOD (5-Day)

EP030

145 mg/L

Chemical Oxygen Demand (O₂)

EP026SP

303 mg/L

Other

Test Method

Total

Free Carbon Dioxide

EA165-P

186 mg/L

Total Carbon Dioxide

EA165-P

245 mg/L

Ethanol

EP117

32.6 mg/L

Nitrogen (N)

EK062G

0.4 mg/L

Testing services provided by: ALS Environmental. NATA Accreditation no. 825. Report Number: ES2629102. Report Date: 16-Sep-2026



Authorised by Ashwitha Punjala

Lab Technologist

BOC GASES BOMADERRY

BOLONG ROAD

BOMADERRY NSW 2541 AUSTRALIA

Sold To: 0150199259 Ship To: 0150199259

Representative: Mark Landstra

Sample Taken From: BOC Bomaderry-EPA Licence point

Date Sampled: 19-Oct-2025

Final - Report Number: 4478146

Sample Number: AW119885

Date Received: 20-Oct-2025

Date Completed: 28-Oct-2025

Date Authorised: 05-Nov-2025

Summary Report

Results apply to the sample as received:

Testing Laboratory: ALS Environmental

Water

Alkalinity	Test Method: ED037-P	Total
Total Alkalinity (CaCO ₃)		76 mg/L

Phosphate	Test Method: EK067G	Total
Total Phosphate (PO ₄)		0.99 mg/L

Physical	Test Method	Total
Conductivity at 25°C	EA010-P	405 µS/cm
pH @ 25°C	EA005-P	5.24 pH Units

Demand	Test Method	Total
BOD (5-Day)	EP030	211 mg/L
Chemical Oxygen Demand (O ₂)	EP026SP	380 mg/L

Other	Test Method	Total
Free Carbon Dioxide	EA165-P	875 mg/L
Total Carbon Dioxide	EA165-P	942 mg/L
Ethanol	EP117	81.6 mg/L
Nitrogen (N)	EK062G	0.7 mg/L

Testing services provided by: ALS Environmental. NATA Accreditation no. 825. Report Number: ES2532629. Report Date: 27-Oct-2025



Authorised by Hoang Le

Lead Chemist

BOC GASES BOMADERRY

BOLONG ROAD

BOMADERRY NSW 2541 AUSTRALIA

Sold To: 0150199259 Ship To: 0150199259

Representative: Mark Landstra

Sample Taken From: BOC Bomaderry-EPA Licence point

Date Sampled: 10-Apr-2025

Final - Report Number: 4317444

Sample Number: AW115167

Date Received: 11-Apr-2025

Date Completed: 24-Apr-2025

Date Authorised: 24-Apr-2025

Summary Report

Results apply to the sample as received:

Testing Laboratory: ALS Environmental**Water**

Alkalinity	Test Method: ED037-P	Total
Total Alkalinity (CaCO ₃)		162 mg/L

Phosphate	Test Method: EK067G	Total
Total Phosphate (PO ₄)		4.68 mg/L

Physical	Test Method	Total
Conductivity at 25°C	EA010-P	909 µS/cm
pH @ 25°C	EA005-P	6.34 pH Units

Demand	Test Method	Total
BOD (5-Day)	EP030	12 mg/L
Chemical Oxygen Demand (O ₂)	EP026SP	257 mg/L

Other	Test Method	Total
Free Carbon Dioxide	EA165-P	148 mg/L
Total Carbon Dioxide	EA165-P	291 mg/L
Ethanol	EP117	0.808 mg/L
Nitrogen (N)	EK062G	1.5 mg/L

Testing services provided by: ALS Environmental. NATA Accreditation no. 825. Report Number: ES2510553. Report Date: 23-Apr-2025



Authorised by Ashwitha Punjala

Lab Technologist

BOC GASES BOMADERRY

BOLONG ROAD

BOMADERRY NSW 2541 AUSTRALIA

Sold To: 0150199259 Ship To: 0150199259

Representative: Mark Landstra

Sample Taken From: BOC Bomaderry-EPA Licence point

Date Sampled: 10-Oct-2024

Final - Report Number: 4171458

Sample Number: AW110758

Date Received: 11-Oct-2024

Date Completed: 21-Oct-2024

Date Authorised: 24-Oct-2024

Summary Report

Results apply to the sample as received:

Testing Laboratory: ALS Environmental

Water

Alkalinity	Test Method: ED037-P	Total
Total Alkalinity (CaCO ₃)		66 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	316 µS/cm
pH @ 25°C	EA005-P	5.36 pH Units

Demand	Test Method	Total
BOD (5-Day)	EP030	134 mg/L
Chemical Oxygen Demand (O ₂)	EP026SP	192 mg/L

Other	Test Method	Filtered	Total
Free Carbon Dioxide	EA165-P		576 mg/L
Total Carbon Dioxide	EA165-P		634 mg/L
Ethanol	EP117		29.6 mg/L
Nitrogen (N)	EK062G		0.3 mg/L
Nitrogen (N) - Kjeldahl	EK061G		0.2 mg/L
Nitrate and Nitrite (N)	EK059G	0.06 mg/L	
Nitrate (N)	EK058G	0.06 mg/L	

Testing services provided by: ALS Environmental. NATA Accreditation no. 825. Report Number: ES2433216. Report Date: 18-Oct-2024

Authorised by Ashwitha Punjala

Lab Technologist

BOC GASES BOMADERRY

BOLONG ROAD

BOMADERRY NSW 2541 AUSTRALIA

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

Representative: Mark Landstra

Sample Taken From: BOC Bomaderry-EPA Licence point

Date Sampled: 18-Apr-2024

Final - Report Number: 4023400

Sample Number: AW106999

Date Received: 19-Apr-2024

Date Completed: 30-Apr-2024

Date Authorised: 03-May-2024

Summary Report

Results apply to the sample as received:

Testing Laboratory: ALS Environmental

Water

Alkalinity	Test Method: ED037-P	Total
Total Alkalinity (CaCO ₃)		57 mg/L

Phosphate	Test Method: EK067G	Total
Total Phosphate (PO ₄)		0.78 mg/L

Physical	Test Method	Total
Conductivity at 25°C	EA010-P	288 µS/cm
pH @ 25°C	EA005-P	5.39 pH Units

Demand	Test Method	Total
BOD (5-Day)	EP030	179 mg/L
Chemical Oxygen Demand (O ₂)	EP026SP	312 mg/L

Other	Test Method	Total
Free Carbon Dioxide	EA165-P	464 mg/L
Total Carbon Dioxide	EA165-P	514 mg/L
Ethanol	EP117	27.3 mg/L
Nitrogen (N)	EK062G	0.8 mg/L

Testing services provided by: ALS Environmental. NATA Accreditation no. 825. Report Number: ES2412778. Report Date: 29-Apr-2024



Authorised by Mi Hei Hwang

Senior Chemist

BOC GASES BOMADERRY

BOLONG ROAD

BOMADERRY NSW 2541 AUSTRALIA

Sold To: 0150199259 Ship To: 0150199259

Representative: Mark Landstra

Sample Taken From: BOC Bomaderry-EPA Licence point

Date Sampled: 10-Oct-2023

Final - Report Number: 3857100

Sample Number: AW103795

Date Received: 11-Oct-2023

Date Completed: 20-Oct-2023

Date Authorised: 20-Oct-2023

Summary Report

Results apply to the sample as received:

Testing Laboratory: ALS Environmental

Water

Alkalinity	Test Method: ED037-P	Total
Total Alkalinity (CaCO ₃)		40 mg/L

Phosphate	Test Method: EK067G	Total
Total Phosphate (PO ₄)		0.78 mg/L

Physical	Test Method	Total
Conductivity at 25°C	EA010-P	313 µS/cm
pH @ 25°C	EA005-P	5.51 pH Units

Demand	Test Method	Total
BOD (5-Day)	EP030	59 mg/L
Chemical Oxygen Demand (O ₂)	EP026SP	120 mg/L

Other	Test Method	Total
Free Carbon Dioxide	EA165-P	247 mg/L
Total Carbon Dioxide	EA165-P	282 mg/L
Ethanol	EP117	26.4 mg/L
Nitrogen (N)	EK062G	0.4 mg/L

Testing services provided by: ALS Environmental. NATA Accreditation no. 825. Report Number: ES2335025. Report Date: 19-Oct-2023



Authorised by Mi Hei Hwang

Senior Chemist

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
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
pH @ 25°C	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



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

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

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 (CaCO ₃)		56 mg/L

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

Test Method

Filtered

Total

Ortho Phosphate (PO₄)

EK071FG

2.60 mg/L

Total Phosphate (PO₄)

EK067G

4.11 mg/L

Physical

Test Method

Total

Conductivity at 25°C

EA010-P

1150 µS/cm

pH @ 25°C

EA005-P

8.32 pH Units

Total Suspended Solids @ 105°C

EA025H

<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

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 (CaCO₃)

46 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

pH @ 25°C

5.7 pH Units

Demand Test Method: *External

Total

BOD (5-Day)

10 mg/L

Chemical Oxygen Demand (O₂)

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

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

Date Authorised

Page 1 of 1