

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
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Phosphate	Test Method: EK067G	Total
Total Phosphorus (P)		0.17 mg/L
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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
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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
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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 (SO ₄)		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 (O ₂)	EP026SP	278 mg/L
Other	Test Method	Total
Ammonia (NH ₃ -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

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

BOMBADERRY 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