Global Analytical & Microbiology

Unit 12, 2 Eden Park Drive Macquarie Park NSW 2113

Phone: (612)8870 8433 Email: gam@ecolab.com





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:4023400Sample Number:AW106999Date Received:19-Apr-2024Date Completed:30-Apr-2024Date 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 Alka	alinity (CaCO3)	57 mg/L

Phosphate	Test Method: EK067G	Total
Total Phos	phate (PO4)	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 (O2)	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

ENVW

Authorised by Mi Hei Hwang

Senior Chemist

Global Analytical & Microbiology

Unit 12, 2 Eden Park Drive Macquarie Park NSW 2113

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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 Laborate	ory: ALS En	vironmental
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Water

Alkalinity Test Method: ED037-P Total

Total Alkalinity (CaCO3) 40 mg/L

PhosphateTest Method: EK067GTotalTotal Phosphate (PO4)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 (O2)
 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

ENVW

Authorised by Mi Hei Hwang

Senior Chemist

Global Analytical & Microbiology

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Final - Report Number: 3631168 BOC GASES BOMADERRY

BOLONG ROAD BOMADERRY NSW 2541 AUSTRALIA

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

Representative: Mark Landstra

Sample Number:AW098314Date Sampled:30-Nov-2022Date Received:02-Dec-2022Date Completed:12-Dec-2022Date 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 Alka	alinity (CaCO3)	63 mg/L

Phosphate	Test Method: EK067G	Total
Total Phos	sphate (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

Ecolab Nalco Unit 12, 2 Eden Park Drive Macquarie Park NSW 2113

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Final - Report Number: 3394231 BOC GASES BOMBADERRY

BOLONG ROAD BOMADERRY NSW 2541 AUSTRALIA Sold To: 0150199259 Ship To: 0150199259

Representative: Clive Stacey

Sample Number:AW092282Date Sampled:18-Jan-2022Date Received:19-Jan-2022Date 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 Alka	alinity (CaCO3)	58 mg/L

Phosphate	Test Method: EK067G	Total
Total Phos	sphate (PO4)	1.89 mg/L

Physical	Test Method	Total
Conductivity at 25°C	EA010-P	324 μS/cm
рН @ 25°C	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

Authorised by Mohammad Sjam

Ecolab Nalco Unit 12, 2 Eden Park Drive Macquarie Park NSW 2113

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Final - Report Number: 3262075 BOC GASES BOMBADERRY

BOLONG ROAD BOMADERRY NSW 2541 AUSTRALIA Sold To: 0150199259 Ship To: 0150199259

Representative: Clive Stacey

Sample Number:AW088977Date Sampled:22-Jul-2021Date Received:23-Jul-2021Date Completed:29-Jul-2021Date 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 (SiO2)	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

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Final - Report Number: 3262075 BOC GASES BOMBADERRY

BOLONG ROAD BOMADERRY NSW 2541 AUSTRALIA

Sold To: 0150199259 Ship To: 0150199259 Representative: Clive Stacey

Sample Number:AW088977Date Sampled:22-Jul-2021Date Received:23-Jul-2021Date Completed:29-Jul-2021Date Authorised:03-Aug-2021

Summary Report

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

Sampling point: Waste Water

Laboratory:		

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

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

Physical	Test Method	Total
Conductivity at 25°C	EA010-P	396 μS/cm
рН @ 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

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Final - Report Number: 2961634 BOC GASES BOMBADERRY

BOLONG ROAD BOMADERRY NSW 2541 AUSTRALIA Sold To: 0150199259 Ship To: 0150199259

Representative: Clive Stacey

Sample Number:AW082348Date Sampled:24-Jun-2020Date Received:26-Jun-2020Date Completed:03-Jul-2020Date 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 (SiO2)	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

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Final - Report Number: 2961634 BOC GASES BOMBADERRY

BOLONG ROAD BOMADERRY NSW 2541 AUSTRALIA Sold To: 0150199259 Ship To: 0150199259

Representative: Clive Stacey

Sample Number:AW082348Date Sampled:24-Jun-2020Date Received:26-Jun-2020Date Completed:03-Jul-2020Date Authorised:06-Jul-2020

Summary Report

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

Sampling point: Trade Waste

Testing Laboratory: ALS Environmenta	Testing 1	Laboratory	: ALS	Environn	1ental
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Anions Test Method: ED009-X	Filtered
Sulfate (SO4)	24.5 mg/L

Phosphate	Test Method: EK067G	Total
Total Phos	sphorus (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

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Final - Report Number: 2846457 BOC GASES BOMBADERRY

BOLONG ROAD

BOMADERRY NSW 2541 AUSTRALIA Sold To: 0150199259 Ship To: 0150199259

Representative: Clive Stacey

Sample Number:AW079830Date Sampled:14-Jan-2020Date Received:15-Jan-2020Date Completed:24-Jan-2020Date 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 (SiO2)	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

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Final - Report Number: 2846457 BOC GASES BOMBADERRY

BOLONG ROAD

BOMADERRY NSW 2541 AUSTRALIA Sold To: 0150199259 Ship To: 0150199259

Representative: Clive Stacey

Sample Number:AW079830Date Sampled:14-Jan-2020Date Received:15-Jan-2020Date Completed:24-Jan-2020Date 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 Phos	sphorus (P)	1.50 mg/L

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

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Phone: (612)8870 8433 Email: customeranalyticalservices@nalco.com



Final - Report Number: 2750740 BOC GASES BOMBADERRY

BOLONG ROAD

BOMADERRY NSW 2541 AUSTRALIA Sold To: 0150199259 Ship To: 0150199259

Representative: Clive Stacey

Sample Number:AW077938Date Sampled:17-Sep-2019Date Received:18-Sep-2019Date Completed:26-Sep-2019Date 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 Metho	d: ED037-P	Total
Total Alkalinity (CaCC	3)	56 mg/L

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

Physical	Test Method	Total
Conductivity at 25°C	EA010-P	257 μS/cm
рН @ 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

Test Method	Total
EA165-P	467 mg/L
EA165-P	516 mg/L
EP117	28.5 mg/L
EK062G	0.2 mg/L
	EA165-P EA165-P EP117

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

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Final - Report Number: 2378708 BOC GASES BOMBADERRY

Representative: Clive Stacey

BOLONG ROAD
BOMADERRY NSW 2541 AUSTRALIA
Sold To: 0150199259 Ship To: 0150199259

Sample NumberAW069979Date Sampled15-Jun-2018Date Received18-Jun-2018Date Completed27-Jun-2018Date Authorised27-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 (CaCO3)	33 mg/L

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

Physical	Test Method	Total
Conductivity at 25°C	EA010-P	253 μS/cm
рН @ 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

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Final - Report Number: 2355593 BOC GASES BOMBADERRY

BOC GASES BOMBADERRYSample NumberAW069552BOLONG ROADDate Sampled17-May-2018BOMADERRY NSW 2541 AUSTRALIADate Received18-May-2018Sold To: 0150199259 Ship To: 0150199259Date Completed29-May-2018Representative: Clive StaceyDate Authorised30-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



Ecolab Nalco Unit 12, 2 Eden Park Drive Macquarie Park NSW 2113

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Final - Report Number: 2355593 BOC GASES BOMBADERRY

BOLONG ROAD
BOMADERRY NSW 2541 AUSTRALIA
Sold To: 0150199259 Ship To: 0150199259

Representative: Clive Stacey

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

Summary Report

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

Sampling point: CT RECIRCULATING Testing Laboratory: ALS Environmental

AnionsTest Method: ED009-XFilteredChloride (Cl)161 mg/L

AlkalinityTest Method: ED037-PTotalTotal Alkalinity (CaCO3)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
рН @ 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

Mother.

Ecolab Nalco Unit 12, 2 Eden Park Drive Macquarie Park NSW 2113

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AW064155

2-Jul-2017

3-Jul-2017

14-Jul-2017

14-Jul-2017

Final - Report Number: 2097426 BOC GASES BOMBADERRY

BOC GASES BOMBADERRY

BOLONG ROAD

BOMADERRY NSW 2541 AUSTRALIA

Sold To: 0150199259 Ship To: 0150199259

Representative: Clive Stacey

Sample Number

Date Sampled

Date Received

Date Completed

Date Authorised

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)	82 mg/L

Phosphate	Test Method: EK067G	Total
Total Phos	phate (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

Mother.

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

BOC GASES BOMBADERRYSample NumberAW058325BOLONG ROADDate Sampled22-Jun-2016BOMADERRY NSW 2541 AUSTRALIADate Received23-Jun-2016Sold To: 0150199259 Ship To: 0150199259Date Completed7-Jul-2016Representative: CLIVE STACEYDate Authorised7-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 (CaCO3)	45 mg/L

Phosphate	Test Method: EK067G	Total
Total Phos	phate (PO4)	0.50 mg/L

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

Demand	Test Method	Total
BOD (5-Day)	EP030	179 mg/L
Chemical Oxygen Demand (O2)	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.

proton.

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Final - Report Number: 1353870 **BOC GASES BOMBADERRY**

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

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 (CaCO3) Phenolphthalein Alkalinity (CaCO3) Bicarbonate (CaCO3)		29 mg/L <25 mg/L 29 mg/L			
			Phosphate Test Method: *CA13200		Total
			Total Phosphate (PO4)		<0.1 mg/L
Physical Conductivity at 25°C pH @ 25°C	Test Method *CA11116 *A-4.4	Total 190 μS/cm 4.9 pH Units			
Demand Test Method: *External		Total			
BOD (5-Day)		19 mg/L			
Chemical Oxygen Demand (O2)		37 mg/L			
	T (M (I)	m . 1			
Other Analytes	Test Method	Total			
Other Analytes Free Carbon Dioxide (calculated)	CA11147				
Other Analytes Free Carbon Dioxide (calculated) Ethanol		730 mg/L 9.46 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

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AW043791

Final - Report Number: 1202564 **BOC GASES BOMBADERRY**

Sample Number 10-Jul-2014 **BOLONG ROAD Date Sampled Date Received** 12-Jul-2014 BOMADERRY NSW 2541 AUSTRALIA **Date Completed** 24-Jul-2014 **Sold To**: 0150199259 **Ship To**: 0150199259 **Date Authorised** 25-Jul-2014 Representative: Nathan Edward Petersen

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
pH @ 25°C		5.0 pH Units
Demand Test Method: *External		Total
BOD (5-Day)		50 mg/L
Chemical Oxygen Demand (O2)		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
		<u> </u>

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.







Final - Report Number: 1070584 BOC GASES BOMBADERRY

BOC GASES BOMBADERRYSample NumberAW038367BOLONG ROADDate Sampled21-Jan-2014BOMADERRY NSW 2541 AUSTRALIADate Received22-Jan-2014Sold To: 0150199259 Ship To: 0150199259Date Completed5-Feb-2014Representative: Thorsten KaschubsDate Authorised5-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/I
Phosphate Test Method: *CA13200	Tota
Total Phosphate (PO4)	0.1 mg/I
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/I
Chemical Oxygen Demand (O2)	26 mg/L
Other Analytes Test Method: External	Tota
Ethanol	6.91 mg/I
	m.
Other Test Method: *CA13204	Total
Nitrogen (N)	<1.0 mg/I

•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 BOMBADERRYSample NumberAW038367BOLONG ROADDate Sampled21-Jan-2014BOMADERRY NSW 2541 AUSTRALIADate Received22-Jan-2014Sold To: 0150199259 Ship To: 0150199259Date Completed5-Feb-2014Representative: Thorsten KaschubsDate Authorised5-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

Authorized by Thanh Hoang Le Senior Chemist





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Final - Report Number: 923876 BOC GASES BOMBADERRY

BOC GASES BOMBADERRYSample NumberAW032034BOLONG ROADDate Sampled1-Jul-2013BOMADERRY NSW 2541 AUSTRALIADate Received2-Jul-2013Sold To: 0150199259 Ship To: 0150199259Date Completed16-Jul-2013Representative: Thorsten KaschubsDate Authorised17-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 Conductivity at 25°C		Total 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

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.



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Authorized by Antigoni Cinelli Senior Chemist

[•]Free Carbon Dioxide as CO2 = 284 mg/L

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AW017447

Additional - Report Number: 790670

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

BOC GASES BOMBADERRY Sample Number 28-Jun-2012 **BOLONG ROAD Date Sampled** BOMADERRY NSW 2541 AUSTRALIA **Date Received** 29-Jun-2012 **Date Completed** 9-Jan-2013 Sold To: 0150199259 Ship To: 0150199259 **Date Authorised** 9-Jan-2013 Representative: Mr Kaschubs Thorsten

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 (CaCO3)		140 mg/L
Phenolphthalein Alkalinity (CaCO3)		<20 mg/L
Phosphate Test Method: *CA13200		Total
Total Phosphate (PO4)		6.3 mg/L
Physical Test Method: *A-6.18 pH @ 25°C		Total 5.5 pH
Demand Test Method: *External		Total
BOD (5-Day) Chemical Oxygen Demand (O2)		158 mg/L 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-

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

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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 Date Sampled Date Received Date Completed Date Authorised AW024315 20-Dec-2012 21-Dec-2012

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
Conductivity at 25°C		260 μS/cm
рН @ 25°C		5.8 pH
Demand Test Method: *External		Total
BOD (5-Day)		113 mg/L
Chemical 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.