

**GOSFORD CITY COUNCIL**

NSW, AUSTRALIA

Request Number: D16302

Nalco Representative: David Supierz

**Laboratory Report:**

361394

**Date Sampled:**

31/Mar/2008

**Date Received:**

31/Mar/2008

**Date Completed:**

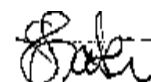
07/Apr/2008

**WATER ANALYSIS**

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

**Sample Taken From:** 176 - NC - Booker Bay - CBW

<u>Analyte</u>	<u>Test Method</u>	<u>Result</u>
Date and Time of Sampling	In Situ Testing	31-Mar-2008 10:10
Depth	In Situ Testing	0.1 m
Conductivity	In Situ Testing	51900.0 µS/cm
Dissolved Oxygen	In Situ Testing	7.0 mg/L
pH	In Situ Testing	8.3 pH Units
Salinity	In Situ Testing	33.9 PSS
Temperature	In Situ Testing	21.2 °C
Turbidity	In Situ Testing	4.8 NTU
Ammonia Nitrogen as N	CA13201	<0.01 mg/L
BOD (5-Day)	CA11048	<2 mg/L
Chlorophyll a	CA13428	1 µg/L
Faecal Streptococci	CA22064	351 CFU/100mL
Nitrite + Nitrate as N (NO <sub>x</sub> )	CA13202	0.01 mg/L
Phosphate (PO <sub>4</sub> ) - Ortho, Filtered	CA13200	0.05 mg/L
Total Kjeldahl Nitrogen	CA13202	<0.1 mg/L
Total Nitrogen as N (TKN + NO <sub>x</sub> )	CA11130	<0.1 mg/L
Total Phosphorus	CA13200	0.02 mg/L
Total Suspended Solids (@ 105°C)	CA12119	10 mg/L

**Comments****Date:** 16/Apr/2008**Authorised by:**Samantha Fraser, BSc.  
Chemist

**GOSFORD CITY COUNCIL**

NSW, AUSTRALIA

Request Number: D16302

Nalco Representative: David Supierz

Laboratory Report:

361395

Date Sampled:

31/Mar/2008

Date Received:

31/Mar/2008

Date Completed:

07/Apr/2008

**WATER ANALYSIS**

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

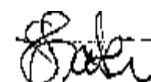
**Sample Taken From:** 174 - NC - Cockle Creek

<u>Analyte</u>	<u>Test Method</u>	<u>Result</u>
Date and Time of Sampling	In Situ Testing	31-Mar-2008 9:55
Depth	In Situ Testing	0.1 m
Conductivity	In Situ Testing	49400.0 µS/cm
Dissolved Oxygen	In Situ Testing	6.4 mg/L
pH	In Situ Testing	8.1 pH Units
Salinity	In Situ Testing	32.0 PSS
Temperature	In Situ Testing	19.9 °C
Turbidity	In Situ Testing	13.0 NTU
Ammonia Nitrogen as N	CA13201	<0.01 mg/L
BOD (5-Day)	CA11048	<2 mg/L
Chlorophyll a	CA13428	1 µg/L
Faecal Streptococci	CA22064	9 CFU/100mL
Nitrite + Nitrate as N (NO <sub>x</sub> )	CA13202	0.02 mg/L
Phosphate (PO <sub>4</sub> ) - Ortho, Filtered	CA13200	0.04 mg/L
Total Kjeldahl Nitrogen	CA13202	<0.1 mg/L
Total Nitrogen as N (TKN + NO <sub>x</sub> )	CA11130	<0.1 mg/L
Total Phosphorus	CA13200	0.03 mg/L
Total Suspended Solids (@ 105°C)	CA12119	11 mg/L

**Comments**

Date: 16/Apr/2008

Authorised by:

Samantha Fraser, BSc.  
Chemist



**GOSFORD CITY COUNCIL**

NSW, AUSTRALIA

**Request Number:** D16302

**Nalco Representative:** David Supierz

**Laboratory Report:**

361396

**Date Sampled:**

31/Mar/2008

**Date Received:**

31/Mar/2008

**Date Completed:**

16/Apr/2008

### WATER ANALYSIS

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

**Sample Taken From:** 221 - NC - Cockrone Lagoon - CLN

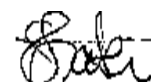
<u>Analyte</u>	<u>Test Method</u>	<u>Result</u>
Date and Time of Sampling	In Situ Testing	31-Mar-2008 9:30
Depth	In Situ Testing	0.1 m
Conductivity	In Situ Testing	21600.0 µS/cm
Dissolved Oxygen	In Situ Testing	9.2 mg/L
pH	In Situ Testing	9.6 pH Units
Salinity	In Situ Testing	12.9 PSS
Temperature	In Situ Testing	20.6 °C
Turbidity	In Situ Testing	7.5 NTU
Ammonia Nitrogen as N	CA13201	0.02 mg/L
Blue Green Algae Analysis Date	EXTERNAL	10-Apr-2008 0:00
BOD (5-Day)	CA11048	<2 mg/L
Chlorophyll a	CA13428	<1 µg/L
Entrance Condition		Closed
Faecal Streptococci	CA22064	<10 CFU/100mL
Nitrite + Nitrate as N (NO <sub>x</sub> )	CA13202	<0.01 mg/L
Phosphate (PO <sub>4</sub> ) - Ortho, Filtered	CA13200	0.02 mg/L
Tide Mark		1.70 m
Total Blue Green Algae	EXTERNAL	600 Cells/mL
Total Kjeldahl Nitrogen	CA13202	0.6 mg/L
Total Nitrogen as N (TKN + NO <sub>x</sub> )	CA11130	0.6 mg/L
Total Phosphorus	CA13200	<0.01 mg/L
Total Suspended Solids (@ 105°C)	CA12119	13 mg/L

#### Comments

361396 External Analysis by: NATA Accreditation Number: 825. Report number: ES0804487. Report date: 10/04/2008

**Date:** 16/Apr/2008

**Authorised by:**



Samantha Fraser, BSc.  
Chemist

**GOSFORD CITY COUNCIL**

NSW, AUSTRALIA

Request Number: D16302

Nalco Representative: David Supierz

**Laboratory Report:**

361397

**Date Sampled:**

31/Mar/2008

**Date Received:**

31/Mar/2008

**Date Completed:**

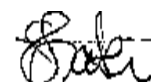
07/Apr/2008

**WATER ANALYSIS**

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

**Sample Taken From:** 216 - NC - Kincumber Creek Entrance - KCK

<u>Analyte</u>	<u>Test Method</u>	<u>Result</u>
Date and Time of Sampling	In Situ Testing	31-Mar-2008 9:10
Depth	In Situ Testing	0.1 m
Conductivity	In Situ Testing	48500.0 µS/cm
Dissolved Oxygen	In Situ Testing	6.2 mg/L
pH	In Situ Testing	8.1 pH Units
Salinity	In Situ Testing	31.5 PSS
Temperature	In Situ Testing	20.5 °C
Turbidity	In Situ Testing	22.2 NTU
Ammonia Nitrogen as N	CA13201	<0.01 mg/L
BOD (5-Day)	CA11048	<2 mg/L
Chlorophyll a	CA13428	3 µg/L
Faecal Streptococci	CA22064	27 CFU/100mL
Nitrite + Nitrate as N (NOx)	CA13202	<0.01 mg/L
Phosphate (PO4) - Ortho, Filtered	CA13200	0.05 mg/L
Total Kjeldahl Nitrogen	CA13202	0.2 mg/L
Total Nitrogen as N (TKN + NOx)	CA11130	0.2 mg/L
Total Phosphorus	CA13200	0.03 mg/L
Total Suspended Solids (@ 105°C)	CA12119	8 mg/L

**Comments****Date:** 16/Apr/2008**Authorised by:**Samantha Fraser, BSc.  
Chemist



**GOSFORD CITY COUNCIL**

NSW, AUSTRALIA

**Request Number:** D16302

**Nalco Representative:** David Supierz

**Laboratory Report:**

361398

**Date Sampled:**

31/Mar/2008

**Date Received:**

31/Mar/2008

**Date Completed:**

08/Apr/2008

### WATER ANALYSIS

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

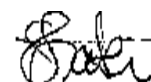
**Sample Taken From:** 220 - NC - Avoca Lagoon - ALN

<u>Analyte</u>	<u>Test Method</u>	<u>Result</u>
Date and Time of Sampling	In Situ Testing	31-Mar-2008 8:45
Depth	In Situ Testing	0.1 m
Conductivity	In Situ Testing	15400.0 µS/cm
Dissolved Oxygen	In Situ Testing	6.7 mg/L
pH	In Situ Testing	8.0 pH Units
Salinity	In Situ Testing	8.9 PSS
Temperature	In Situ Testing	21.5 °C
Turbidity	In Situ Testing	19.0 NTU
Ammonia Nitrogen as N	CA13201	0.06 mg/L
BOD (5-Day)	CA11048	<2 mg/L
Chlorophyll a	CA13428	2 µg/L
Entrance Condition		Closed
Faecal Streptococci	CA22064	<10 CFU/100mL
Nitrite + Nitrate as N (NOx)	CA13202	0.02 mg/L
Phosphate (PO4) - Ortho, Filtered	CA13200	0.03 mg/L
Total Kjeldahl Nitrogen	CA13202	0.8 mg/L
Total Nitrogen as N (TKN + NOx)	CA11130	0.8 mg/L
Total Phosphorus	CA13200	0.02 mg/L
Total Suspended Solids (@ 105°C)	CA12119	2 mg/L

### Comments

**Date:** 16/Apr/2008

**Authorised by:**



Samantha Fraser, BSc.  
Chemist



**GOSFORD CITY COUNCIL**

NSW, AUSTRALIA

**Request Number:** D16302

**Nalco Representative:** David Supierz

**Laboratory Report:**

361399

**Date Sampled:**

31/Mar/2008

**Date Received:**

31/Mar/2008

**Date Completed:**

16/Apr/2008

### WATER ANALYSIS

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

**Sample Taken From:** 219 - NC - Terrigal Lagoon - TLN

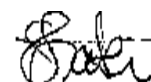
<u>Analyte</u>	<u>Test Method</u>	<u>Result</u>
Date and Time of Sampling	In Situ Testing	31-Mar-2008 8:30
Depth	In Situ Testing	0.1 m
Conductivity	In Situ Testing	17700.0 µS/cm
Dissolved Oxygen	In Situ Testing	6.9 mg/L
pH	In Situ Testing	7.9 pH Units
Salinity	In Situ Testing	10.4 PSS
Temperature	In Situ Testing	20.7 °C
Turbidity	In Situ Testing	27.7 NTU
Ammonia Nitrogen as N	CA13201	0.02 mg/L
Blue Green Algae Analysis Date	EXTERNAL	10-Apr-2008 0:00
BOD (5-Day)	CA11048	<2 mg/L
Chlorophyll a	CA13428	3 µg/L
Entrance Condition		Closed
Faecal Streptococci	CA22064	<10 CFU/100mL
Nitrite + Nitrate as N (NOx)	CA13202	0.01 mg/L
Phosphate (PO4) - Ortho, Filtered	CA13200	0.06 mg/L
Total Blue Green Algae	EXTERNAL	0 Cells/mL
Total Kjeldahl Nitrogen	CA13202	0.4 mg/L
Total Nitrogen as N (TKN + NOx)	CA11130	0.4 mg/L
Total Phosphorus	CA13200	0.03 mg/L
Total Suspended Solids (@ 105°C)	CA12119	9 mg/L

**Comments**

361399 External Analysis by: NATA Accreditation Number: 825. Report number: ES0804487. Repor  
10/04/2008

**Date:** 16/Apr/2008

**Authorised by:**



Samantha Fraser, BSc.  
Chemist

**GOSFORD CITY COUNCIL**

NSW, AUSTRALIA

**Request Number:** D16302**Nalco Representative:** David Supierz**Laboratory Report:**

361400

**Date Sampled:**

31/Mar/2008

**Date Received:**

31/Mar/2008

**Date Completed:**

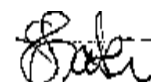
07/Apr/2008

**WATER ANALYSIS**

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

**Sample Taken From:** 218 - NC - Wamberal Lagoon - WLN

<u>Analyte</u>	<u>Test Method</u>	<u>Result</u>
Date and Time of Sampling	In Situ Testing	31-Mar-2008 8:15
Depth	In Situ Testing	0.1 m
Conductivity	In Situ Testing	8480.0 µS/cm
Dissolved Oxygen	In Situ Testing	7.7 mg/L
pH	In Situ Testing	7.9 pH Units
Salinity	In Situ Testing	4.7 PSS
Temperature	In Situ Testing	21.1 °C
Turbidity	In Situ Testing	32.2 NTU
Ammonia Nitrogen as N	CA13201	0.04 mg/L
BOD (5-Day)	CA11048	<2 mg/L
Chlorophyll a	CA13428	2 µg/L
Entrance Condition		Closed
Faecal Streptococci	CA22064	<10 CFU/100mL
Nitrite + Nitrate as N (NO <sub>x</sub> )	CA13202	0.02 mg/L
Phosphate (PO <sub>4</sub> ) - Ortho, Filtered	CA13200	0.04 mg/L
Tide Mark		2.00 m
Total Kjeldahl Nitrogen	CA13202	0.7 mg/L
Total Nitrogen as N (TKN + NO <sub>x</sub> )	CA11130	0.7 mg/L
Total Phosphorus	CA13200	0.01 mg/L
Total Suspended Solids (@ 105°C)	CA12119	2 mg/L

**Comments****Date:** 16/Apr/2008**Authorised by:**Samantha Fraser, BSc.  
Chemist

**GOSFORD CITY COUNCIL**

NSW, AUSTRALIA

**Request Number:** D16302**Nalco Representative:** David Supierz**Laboratory Report:**

361401

**Date Sampled:**

31/Mar/2008

**Date Received:**

31/Mar/2008

**Date Completed:**

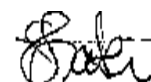
07/Apr/2008

**WATER ANALYSIS**

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

**Sample Taken From:** 177 - NC - Erina Creek - ECK

<u>Analyte</u>	<u>Test Method</u>	<u>Result</u>
Date and Time of Sampling	In Situ Testing	31-Mar-2008 7:45
Depth	In Situ Testing	0.1 m
Conductivity	In Situ Testing	28200.0 µS/cm
Dissolved Oxygen	In Situ Testing	6.9 mg/L
pH	In Situ Testing	7.5 pH Units
Salinity	In Situ Testing	17.2 PSS
Temperature	In Situ Testing	16.7 °C
Turbidity	In Situ Testing	9.4 NTU
Ammonia Nitrogen as N	CA13201	0.01 mg/L
BOD (5-Day)	CA11048	<2 mg/L
Chlorophyll a	CA13428	2 µg/L
Faecal Streptococci	CA22064	54 CFU/100mL
Nitrite + Nitrate as N (NO <sub>x</sub> )	CA13202	0.06 mg/L
Phosphate (PO <sub>4</sub> ) - Ortho, Filtered	CA13200	0.08 mg/L
Total Kjeldahl Nitrogen	CA13202	0.2 mg/L
Total Nitrogen as N (TKN + NO <sub>x</sub> )	CA11130	0.3 mg/L
Total Phosphorus	CA13200	0.03 mg/L
Total Suspended Solids (@ 105°C)	CA12119	3 mg/L

**Comments****Date:** 16/Apr/2008**Authorised by:**Samantha Fraser, BSc.  
Chemist





**GOSFORD CITY COUNCIL**

NSW, AUSTRALIA

**Request Number:** D16302

**Nalco Representative:** David Supierz

**Laboratory Report:**

361402

**Date Sampled:**

31/Mar/2008

**Date Received:**

31/Mar/2008

**Date Completed:**

07/Apr/2008

### WATER ANALYSIS

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

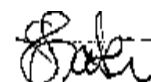
**Sample Taken From:** 175 - NC - Narara Creek Entrance - NCY

<u>Analyte</u>	<u>Test Method</u>	<u>Result</u>
Date and Time of Sampling	In Situ Testing	31-Mar-2008 7:30
Depth	In Situ Testing	0.1 m
Conductivity	In Situ Testing	32400.0 µS/cm
Dissolved Oxygen	In Situ Testing	6.8 mg/L
pH	In Situ Testing	7.3 pH Units
Salinity	In Situ Testing	20.0 PSS
Temperature	In Situ Testing	16.3 °C
Turbidity	In Situ Testing	3.3 NTU
Ammonia Nitrogen as N	CA13201	<0.01 mg/L
BOD (5-Day)	CA11048	<2 mg/L
Chlorophyll a	CA13428	1 µg/L
Faecal Streptococci	CA22064	54 CFU/100mL
Nitrite + Nitrate as N (NOx)	CA13202	0.04 mg/L
Phosphate (PO4) - Ortho, Filtered	CA13200	0.07 mg/L
Total Kjeldahl Nitrogen	CA13202	0.2 mg/L
Total Nitrogen as N (TKN + NOx)	CA11130	0.2 mg/L
Total Phosphorus	CA13200	0.02 mg/L
Total Suspended Solids (@ 105°C)	CA12119	2 mg/L

### Comments

**Date:** 16/Apr/2008

**Authorised by:**



Samantha Fraser, BSc.  
Chemist



**GOSFORD CITY COUNCIL**

NSW, AUSTRALIA

**Request Number:** D16302

**Nalco Representative:** David Supierz

**Laboratory Report:**

361403

**Date Sampled:**

31/Mar/2008

**Date Received:**

31/Mar/2008

**Date Completed:**

16/Apr/2008

### WATER ANALYSIS

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

**Sample Taken From:** 217 - NC - Woy Woy Creek - WBY

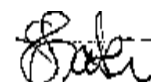
<u>Analyte</u>	<u>Test Method</u>	<u>Result</u>
Date and Time of Sampling	In Situ Testing	31-Mar-2008 10:30
Depth	In Situ Testing	0.1 m
Conductivity	In Situ Testing	47900.0 µS/cm
Dissolved Oxygen	In Situ Testing	7.0 mg/L
pH	In Situ Testing	8.2 pH Units
Salinity	In Situ Testing	31.1 PSS
Temperature	In Situ Testing	22.1 °C
Turbidity	In Situ Testing	16.8 NTU
Ammonia Nitrogen as N	CA13201	<0.01 mg/L
Blue Green Algae Analysis Date	EXTERNAL	10-Apr-2008 0:00
BOD (5-Day)	CA11048	<2 mg/L
Chlorophyll a	CA13428	3 µg/L
Faecal Streptococci	CA22064	72 CFU/100mL
Nitrite + Nitrate as N (NO <sub>x</sub> )	CA13202	<0.01 mg/L
Phosphate (PO <sub>4</sub> ) - Ortho, Filtered	CA13200	0.09 mg/L
Total Blue Green Algae	EXTERNAL	0 Cells/mL
Total Kjeldahl Nitrogen	CA13202	0.1 mg/L
Total Nitrogen as N (TKN + NO <sub>x</sub> )	CA11130	0.1 mg/L
Total Phosphorus	CA13200	0.04 mg/L
Total Suspended Solids (@ 105°C)	CA12119	8 mg/L

#### Comments

361403 External Analysis by: NATA Accreditation Number: 825. Report number: ES0804487. Report  
10/04/2008

**Date:** 16/Apr/2008

**Authorised by:**



Samantha Fraser, BSc.  
Chemist

**GOSFORD CITY COUNCIL**

NSW, AUSTRALIA

**Request Number:** D16302**Nalco Representative:** David Supierz**Laboratory Report:**

362755

**Date Sampled:**

31/Mar/2008

**Date Received:**

01/Apr/2008

**Date Completed:**

08/Apr/2008

**WATER ANALYSIS**

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

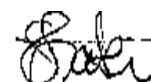
**Sample Taken From:** 224 - NC - Gosford**Analyte****Test Method****Result**

Rainfall For Preceding 48 Hours

0.0 mm

Rainfall For Preceding 7 Days

12.0 mm

**Comments****Date:** 16/Apr/2008**Authorised by:**Samantha Fraser, BSc.  
Chemist

**GOSFORD CITY COUNCIL**

NSW, AUSTRALIA

**Request Number:** D16302**Nalco Representative:** David Supierz**Laboratory Report:**

362756

**Date Sampled:**

31/Mar/2008

**Date Received:**

01/Apr/2008

**Date Completed:**

08/Apr/2008

**WATER ANALYSIS**

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

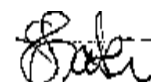
**Sample Taken From:** 223 - NC - Gosford RN**Analyte****Test Method****Result**

Rainfall For Preceding 48 Hours

0.0 mm

Rainfall For Preceding 7 Days

18.0 mm

**Comments****Date:** 16/Apr/2008**Authorised by:**Samantha Fraser, BSc.  
Chemist

**GOSFORD CITY COUNCIL**

NSW, AUSTRALIA

**Request Number:** D16302**Nalco Representative:** David Supierz**Laboratory Report:**

362757

**Date Sampled:**

31/Mar/2008

**Date Received:**

01/Apr/2008

**Date Completed:**

08/Apr/2008

**WATER ANALYSIS**

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

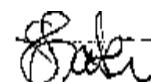
**Sample Taken From:** 222 - NC - Fort Denison**Analyte****Test Method****Result**

High Tide Level

1.43 m

High Tide Time

03:00

**Comments****Date:** 16/Apr/2008**Authorised by:**Samantha Fraser, BSc.  
Chemist