

GOSFORD CITY COUNCIL

NSW, AUSTRALIA

Request Number: D16621A

Nalco Representative: David Supierz

Laboratory Report:

388713

Date Sampled:

03/Nov/2008

Date Received:

03/Nov/2008

Date Completed:

18/Nov/2008

WATER ANALYSIS

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

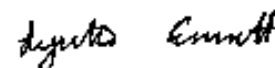
Sample Taken From: 11 - Piles Creek

<u>Analyte</u>	<u>Test Method</u>	<u>Result</u>
Date and Time of Sampling	In Situ Testing	03-Nov-2008 10:15
Conductivity	In Situ Testing	0.2 mS/cm
Dissolved Oxygen	In Situ Testing	8.7 mg/L
pH	In Situ Testing	7.1 pH Units
Salinity	In Situ Testing	0.1 PSS
Temperature	In Situ Testing	20.1 °C
Turbidity	In Situ Testing	30.1 NTU
Ammonia Nitrogen as N	CA13201	0.09 mg/L
BOD (5-Day)	CA11048	<2 mg/L
Chlorophyll a	CA13428	2 µg/L
Enterococci	CA22064	164 CFU/100mL
Nitrite + Nitrate as N (NO _x)	CA13202	1.1 mg/L
Ortho-Phosphate (as P)	CA13200	0.02 mg/L
Thermotolerant Coliforms	CA22067	629 CFU/100mL
Total Kjeldahl Nitrogen	CA13202	0.6 mg/L
Total Nitrogen as N (TKN + NO _x)	CA11130	0.6 mg/L
Total Phosphorus	CA13200	0.02 mg/L
Total Suspended Solids (@ 105°C)	CA12119	10 mg/L

Comments

Date: 18/Nov/2008

Authorised by:

Lynette M Emmett
Chemist

GOSFORD CITY COUNCIL

NSW, AUSTRALIA

Request Number: D16621A

Nalco Representative: David Supierz

Laboratory Report:

388714

Date Sampled:

03/Nov/2008

Date Received:

03/Nov/2008

Date Completed:

18/Nov/2008

WATER ANALYSIS

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

Sample Taken From: 10 - Booker Bay

<u>Analyte</u>	<u>Test Method</u>	<u>Result</u>
Date and Time of Sampling	In Situ Testing	03-Nov-2008 13:20
Conductivity	In Situ Testing	53.4 mS/cm
Dissolved Oxygen	In Situ Testing	7.3 mg/L
pH	In Situ Testing	8.0 pH Units
Salinity	In Situ Testing	35.0 PSS
Temperature	In Situ Testing	21.1 °C
Turbidity	In Situ Testing	13.1 NTU
Ammonia Nitrogen as N	CA13201	0.02 mg/L
BOD (5-Day)	CA11048	<2 mg/L
Chlorophyll a	CA13428	1 µg/L
Enterococci	CA22064	4 CFU/100mL
Nitrite + Nitrate as N (NO _x)	CA13202	<0.01 mg/L
Ortho-Phosphate (as P)	CA13200	<0.02 mg/L
Thermotolerant Coliforms	CA22067	10 CFU/100mL
Total Kjeldahl Nitrogen	CA13202	<0.1 mg/L
Total Nitrogen as N (TKN + NO _x)	CA11130	<0.1 mg/L
Total Phosphorus	CA13200	<0.02 mg/L
Total Suspended Solids (@ 105°C)	CA12119	48 mg/L

Comments

388714 Limit of reporting raised for phosphate due to sample matrix effects.



Date: 18/Nov/2008

Authorised by:

Lynette M Emmett
Chemist

GOSFORD CITY COUNCIL

NSW, AUSTRALIA

Request Number: D16621A**Nalco Representative:** David Supierz**Laboratory Report:**

388715

Date Sampled:

03/Nov/2008

Date Received:

03/Nov/2008

Date Completed:

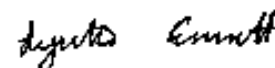
18/Nov/2008

WATER ANALYSIS

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

Sample Taken From: 09 - Cockle Creek

<u>Analyte</u>	<u>Test Method</u>	<u>Result</u>
Date and Time of Sampling	In Situ Testing	03-Nov-2008 13:05
Conductivity	In Situ Testing	52.2 mS/cm
Dissolved Oxygen	In Situ Testing	7.9 mg/L
pH	In Situ Testing	8.0 pH Units
Salinity	In Situ Testing	34.3 PSS
Temperature	In Situ Testing	24.2 °C
Turbidity	In Situ Testing	13.4 NTU
Ammonia Nitrogen as N	CA13201	0.01 mg/L
BOD (5-Day)	CA11048	<2 mg/L
Chlorophyll a	CA13428	<1 µg/L
Enterococci	CA22064	45 CFU/100mL
Nitrite + Nitrate as N (NO _x)	CA13202	<0.01 mg/L
Ortho-Phosphate (as P)	CA13200	<0.01 mg/L
Thermotolerant Coliforms	CA22067	227 CFU/100mL
Total Kjeldahl Nitrogen	CA13202	<0.1 mg/L
Total Nitrogen as N (TKN + NO _x)	CA11130	<0.1 mg/L
Total Phosphorus	CA13200	<0.01 mg/L
Total Suspended Solids (@ 105°C)	CA12119	15 mg/L

Comments**Date:** 18/Nov/2008**Authorised by:**Lynette M Emmett
Chemist

GOSFORD CITY COUNCIL

NSW, AUSTRALIA

Request Number: D16621A

Nalco Representative: David Supierz

Laboratory Report:

388716

Date Sampled:

03/Nov/2008

Date Received:

03/Nov/2008

Date Completed:

18/Nov/2008

WATER ANALYSIS

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

Sample Taken From: 03 - Cockrone Lagoon

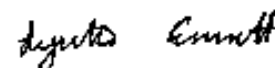
<u>Analyte</u>	<u>Test Method</u>	<u>Result</u>
Date and Time of Sampling	In Situ Testing	03-Nov-2008 12:45
Conductivity	In Situ Testing	25.9 mS/cm
Dissolved Oxygen	In Situ Testing	9.0 mg/L
pH	In Situ Testing	9.5 pH Units
Salinity	In Situ Testing	15.8 PSS
Temperature	In Situ Testing	23.7 °C
Turbidity	In Situ Testing	24.3 NTU
Ammonia Nitrogen as N	CA13201	0.02 mg/L
BOD (5-Day)	CA11048	<2 mg/L
Chlorophyll a	CA13428	1 µg/L
Enterococci	CA22064	100 CFU/100mL
Entrance Condition		Closed
Nitrite + Nitrate as N (NO _x)	CA13202	<0.01 mg/L
Ortho-Phosphate (as P)	CA13200	<0.03 mg/L
Thermotolerant Coliforms	CA22067	<2 CFU/100mL
Total Kjeldahl Nitrogen	CA13202	0.5 mg/L
Total Nitrogen as N (TKN + NO _x)	CA11130	0.5 mg/L
Total Phosphorus	CA13200	<0.03 mg/L
Total Suspended Solids (@ 105°C)	CA12119	2 mg/L

Comments

388716 Limit of reporting raised for phosphate due to sample matrix effects.

Date: 18/Nov/2008

Authorised by:

Lynette M Emmett
Chemist

GOSFORD CITY COUNCIL

NSW, AUSTRALIA

Request Number: D16621A**Nalco Representative:** David Supierz**Laboratory Report:**

388717

Date Sampled:

03/Nov/2008

Date Received:

03/Nov/2008

Date Completed:

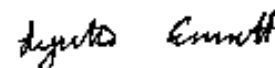
18/Nov/2008

WATER ANALYSIS

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

Sample Taken From: 05 - Kincumber Creek

<u>Analyte</u>	<u>Test Method</u>	<u>Result</u>
Date and Time of Sampling	In Situ Testing	03-Nov-2008 12:05
Conductivity	In Situ Testing	51.3 mS/cm
Dissolved Oxygen	In Situ Testing	9.9 mg/L
pH	In Situ Testing	8.1 pH Units
Salinity	In Situ Testing	33.7 PSS
Temperature	In Situ Testing	25.1 °C
Turbidity	In Situ Testing	4.1 NTU
Ammonia Nitrogen as N	CA13201	0.02 mg/L
BOD (5-Day)	CA11048	<2 mg/L
Chlorophyll a	CA13428	3 µg/L
Enterococci	CA22064	8 CFU/100mL
Nitrite + Nitrate as N (NO _x)	CA13202	<0.01 mg/L
Ortho-Phosphate (as P)	CA13200	0.01 mg/L
Thermotolerant Coliforms	CA22067	<2 CFU/100mL
Total Kjeldahl Nitrogen	CA13202	0.2 mg/L
Total Nitrogen as N (TKN + NO _x)	CA11130	0.2 mg/L
Total Phosphorus	CA13200	0.02 mg/L
Total Suspended Solids (@ 105°C)	CA12119	38 mg/L

Comments**Date:** 18/Nov/2008**Authorised by:**Lynette M Emmett
Chemist

GOSFORD CITY COUNCIL

NSW, AUSTRALIA

Request Number: D16621A**Nalco Representative:** David Supierz**Laboratory Report:**

388718

Date Sampled:

03/Nov/2008

Date Received:

03/Nov/2008

Date Completed:

18/Nov/2008

WATER ANALYSIS

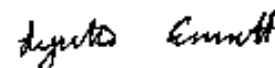
The sample was analysed as received, the results being as follows:

Sample Taken From: 04 - Avoca Lagoon

<u>Analyte</u>	<u>Test Method</u>	<u>Result</u>
Date and Time of Sampling	In Situ Testing	03-Nov-2008 11:50
Conductivity	In Situ Testing	25.5 mS/cm
Dissolved Oxygen	In Situ Testing	6.7 mg/L
pH	In Situ Testing	7.8 pH Units
Salinity	In Situ Testing	15.5 PSS
Temperature	In Situ Testing	23.3 °C
Turbidity	In Situ Testing	14.4 NTU
Ammonia Nitrogen as N	CA13201	0.08 mg/L
BOD (5-Day)	CA11048	<2 mg/L
Chlorophyll a	CA13428	1 µg/L
Enterococci	CA22064	34 CFU/100mL
Entrance Condition		Closed
Nitrite + Nitrate as N (NO _x)	CA13202	<0.01 mg/L
Ortho-Phosphate (as P)	CA13200	<0.02 mg/L
Thermotolerant Coliforms	CA22067	10 CFU/100mL
Total Kjeldahl Nitrogen	CA13202	0.6 mg/L
Total Nitrogen as N (TKN + NO _x)	CA11130	0.6 mg/L
Total Phosphorus	CA13200	<0.02 mg/L
Total Suspended Solids (@ 105°C)	CA12119	21 mg/L

Comments

388718 Limit of reporting raised for phosphate due to sample matrix effects.

Date: 18/Nov/2008**Authorised by:**Lynette M Emmett
Chemist

GOSFORD CITY COUNCIL

NSW, AUSTRALIA

Request Number: D16621A**Nalco Representative:** David Supierz**Laboratory Report:**

388719

Date Sampled:

03/Nov/2008

Date Received:

03/Nov/2008

Date Completed:

18/Nov/2008

WATER ANALYSIS

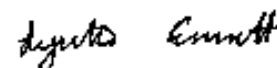
The sample was analysed as received, the results being as follows:

Sample Taken From: 02 - Terrigal Lagoon

<u>Analyte</u>	<u>Test Method</u>	<u>Result</u>
Date and Time of Sampling	In Situ Testing	03-Nov-2008 11:30
Conductivity	In Situ Testing	29.6 mS/cm
Dissolved Oxygen	In Situ Testing	7.4 mg/L
pH	In Situ Testing	7.7 pH Units
Salinity	In Situ Testing	18.3 PSS
Temperature	In Situ Testing	25.0 °C
Turbidity	In Situ Testing	10.9 NTU
Ammonia Nitrogen as N	CA13201	0.06 mg/L
BOD (5-Day)	CA11048	<2 mg/L
Chlorophyll a	CA13428	1 µg/L
Enterococci	CA22064	<2 CFU/100mL
Entrance Condition		Closed
Nitrite + Nitrate as N (NO _x)	CA13202	0.02 mg/L
Ortho-Phosphate (as P)	CA13200	<0.03 mg/L
Thermotolerant Coliforms	CA22067	3 CFU/100mL
Total Kjeldahl Nitrogen	CA13202	0.4 mg/L
Total Nitrogen as N (TKN + NO _x)	CA11130	0.4 mg/L
Total Phosphorus	CA13200	<0.03 mg/L
Total Suspended Solids (@ 105°C)	CA12119	24 mg/L

Comments

388719 Limit of reporting raised for phosphate due to sample matrix effects.


Date: 18/Nov/2008**Authorised by:**Lynette M Emmett
Chemist

GOSFORD CITY COUNCIL

NSW, AUSTRALIA

Request Number: D16621A

Nalco Representative: David Supierz

Laboratory Report:

388720

Date Sampled:

03/Nov/2008

Date Received:

03/Nov/2008

Date Completed:

18/Nov/2008

WATER ANALYSIS

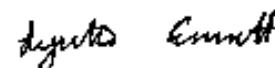
The sample was analysed as received, the results being as follows:

Sample Taken From: 01 - Wamberal Lagoon

<u>Analyte</u>	<u>Test Method</u>	<u>Result</u>
Date and Time of Sampling	In Situ Testing	03-Nov-2008 11:15
Conductivity	In Situ Testing	27.6 mS/cm
Dissolved Oxygen	In Situ Testing	9.3 mg/L
pH	In Situ Testing	8.9 pH Units
Salinity	In Situ Testing	16.9 PSS
Temperature	In Situ Testing	23.9 °C
Turbidity	In Situ Testing	2.6 NTU
Ammonia Nitrogen as N	CA13201	0.02 mg/L
BOD (5-Day)	CA11048	<2 mg/L
Chlorophyll a	CA13428	1 µg/L
Enterococci	CA22064	36 CFU/100mL
Entrance Condition		Closed
Nitrite + Nitrate as N (NO _x)	CA13202	<0.01 mg/L
Ortho-Phosphate (as P)	CA13200	<0.03 mg/L
Thermotolerant Coliforms	CA22067	7 CFU/100mL
Total Kjeldahl Nitrogen	CA13202	0.6 mg/L
Total Nitrogen as N (TKN + NO _x)	CA11130	0.6 mg/L
Total Phosphorus	CA13200	<0.03 mg/L
Total Suspended Solids (@ 105°C)	CA12119	10 mg/L

Comments

388720 Limit of reporting raised for phosphate due to sample matrix effects.

Date: 18/Nov/2008**Authorised by:**Lynette M Emmett
Chemist

GOSFORD CITY COUNCIL

NSW, AUSTRALIA

Request Number: D16621A**Nalco Representative:** David Supierz**Laboratory Report:**

388721

Date Sampled:

03/Nov/2008

Date Received:

03/Nov/2008

Date Completed:

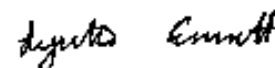
18/Nov/2008

WATER ANALYSIS

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

Sample Taken From: 06 - Erina Creek

<u>Analyte</u>	<u>Test Method</u>	<u>Result</u>
Date and Time of Sampling	In Situ Testing	03-Nov-2008 10:55
Conductivity	In Situ Testing	50.6 mS/cm
Dissolved Oxygen	In Situ Testing	6.6 mg/L
pH	In Situ Testing	7.8 pH Units
Salinity	In Situ Testing	33.0 PSS
Temperature	In Situ Testing	22.5 °C
Turbidity	In Situ Testing	7.2 NTU
Ammonia Nitrogen as N	CA13201	0.04 mg/L
BOD (5-Day)	CA11048	<2 mg/L
Chlorophyll a	CA13428	4 µg/L
Enterococci	CA22064	18 CFU/100mL
Nitrite + Nitrate as N (NO _x)	CA13202	<0.01 mg/L
Ortho-Phosphate (as P)	CA13200	0.02 mg/L
Thermotolerant Coliforms	CA22067	8 CFU/100mL
Total Kjeldahl Nitrogen	CA13202	<0.1 mg/L
Total Nitrogen as N (TKN + NO _x)	CA11130	<0.1 mg/L
Total Phosphorus	CA13200	0.02 mg/L
Total Suspended Solids (@ 105°C)	CA12119	10 mg/L

Comments**Date:** 18/Nov/2008**Authorised by:**Lynette M Emmett
Chemist

GOSFORD CITY COUNCIL

NSW, AUSTRALIA

Request Number: D16621A**Nalco Representative:** David Supierz**Laboratory Report:**

388722

Date Sampled:

03/Nov/2008

Date Received:

03/Nov/2008

Date Completed:

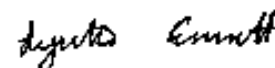
18/Nov/2008

WATER ANALYSIS

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

Sample Taken From: 07 - Narara Creek

<u>Analyte</u>	<u>Test Method</u>	<u>Result</u>
Date and Time of Sampling	In Situ Testing	03-Nov-2008 10:40
Conductivity	In Situ Testing	42.3 mS/cm
Dissolved Oxygen	In Situ Testing	6.0 mg/L
pH	In Situ Testing	7.5 pH Units
Salinity	In Situ Testing	27.0 PSS
Temperature	In Situ Testing	22.2 °C
Turbidity	In Situ Testing	16.2 NTU
Ammonia Nitrogen as N	CA13201	0.07 mg/L
BOD (5-Day)	CA11048	<2 mg/L
Chlorophyll a	CA13428	4 µg/L
Enterococci	CA22064	336 CFU/100mL
Nitrite + Nitrate as N (NO _x)	CA13202	0.02 mg/L
Ortho-Phosphate (as P)	CA13200	0.02 mg/L
Thermotolerant Coliforms	CA22067	114 CFU/100mL
Total Kjeldahl Nitrogen	CA13202	0.3 mg/L
Total Nitrogen as N (TKN + NO _x)	CA11130	0.3 mg/L
Total Phosphorus	CA13200	0.02 mg/L
Total Suspended Solids (@ 105°C)	CA12119	12 mg/L

Comments**Date:** 18/Nov/2008**Authorised by:**Lynette M Emmett
Chemist

GOSFORD CITY COUNCIL

NSW, AUSTRALIA

Request Number: D16621A**Nalco Representative:** David Supierz**Laboratory Report:**

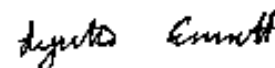
388723

Date Sampled: 03/Nov/2008**Date Received:** 03/Nov/2008**Date Completed:** 18/Nov/2008**WATER ANALYSIS**

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

Sample Taken From: 08 - Woy Woy Creek

<u>Analyte</u>	<u>Test Method</u>	<u>Result</u>
Date and Time of Sampling	In Situ Testing	03-Nov-2008 13:40
Conductivity	In Situ Testing	50.8 mS/cm
Dissolved Oxygen	In Situ Testing	7.5 mg/L
pH	In Situ Testing	8.0 pH Units
Salinity	In Situ Testing	33.3 PSS
Temperature	In Situ Testing	23.5 °C
Turbidity	In Situ Testing	5.6 NTU
Ammonia Nitrogen as N	CA13201	0.01 mg/L
BOD (5-Day)	CA11048	<2 mg/L
Chlorophyll a	CA13428	1 µg/L
Enterococci	CA22064	45 CFU/100mL
Nitrite + Nitrate as N (NO _x)	CA13202	<0.01 mg/L
Ortho-Phosphate (as P)	CA13200	0.02 mg/L
Thermotolerant Coliforms	CA22067	5 CFU/100mL
Total Kjeldahl Nitrogen	CA13202	0.2 mg/L
Total Nitrogen as N (TKN + NO _x)	CA11130	0.2 mg/L
Total Phosphorus	CA13200	0.02 mg/L
Total Suspended Solids (@ 105°C)	CA12119	12 mg/L

Comments**Date:** 18/Nov/2008**Authorised by:**Lynette M Emmett
Chemist

GOSFORD CITY COUNCIL

NSW, AUSTRALIA

Request Number: D16621A**Nalco Representative:** David Supierz**Laboratory Report:**

388724

Date Sampled:

03/Nov/2008

Date Received:

03/Nov/2008

Date Completed:

11/Nov/2008

WATER ANALYSIS**AMENDED REPORT, Replaces report issued: 18/Nov/2008 11:38:04 AM**

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

Sample Taken From: 12 - Trip Blank**Analyte**

Thermotolerant Coliforms

Test Method

CA22067

Result

<2 CFU/100mL

Comments

388724 The Enterococci result could not be reported due to sample integrity issues.

Date: 03/Dec/2008**Authorised by:**Samantha Fraser, BSc.
Chemist

GOSFORD CITY COUNCIL

NSW, AUSTRALIA

Request Number: D16621A**Nalco Representative:** David Supierz**Laboratory Report:**

388725

Date Sampled:

03/Nov/2008

Date Received:

03/Nov/2008

Date Completed:

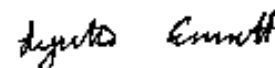
11/Nov/2008

WATER ANALYSIS

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

Sample Taken From: 13 - Field Blank - Terrigal Lagoon

<u>Analyte</u>	<u>Test Method</u>	<u>Result</u>
Enterococci	CA22064	<2 CFU/100mL
Thermotolerant Coliforms	CA22067	<2 CFU/100mL

Comments**Date:** 18/Nov/2008**Authorised by:**Lynette M Emmett
Chemist

GOSFORD CITY COUNCIL

NSW, AUSTRALIA

Request Number: D16621A**Nalco Representative:** David Supierz**Laboratory Report:**

388726

Date Sampled:

03/Nov/2008

Date Received:

03/Nov/2008

Date Completed:

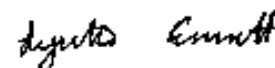
18/Nov/2008

WATER ANALYSIS

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

Sample Taken From: 14 - Information

<u>Analyte</u>	<u>Test Method</u>	<u>Result</u>
High Tide Level		1.56 m
High Tide Time		11:06
Rainfall For Preceding 48 Hours		8.4 mm
Rainfall For Preceding 7 Days		21.0 mm

Comments**Date:** 18/Nov/2008**Authorised by:**Lynette M Emmett
Chemist