

# PRELIMINARY REPORT

Report PR - 1201684

**To:**

Oberon Council  
137 - 139 Oberon Street  
Oberon, NSW 2787  
Fax Number: (02) 6336 2061  
For Attention: Ken Robinson  
Order Number: 46391

**From:**

Kim Smith  
Customer Liaison Officer  
Hunter Water Laboratories  
Telephone: (02) 4935 0500  
Facsimile: (02) 4935 0505  
No. of Pages: 2

<i>Sample ID</i>	<i>Date</i>	<i>Description</i>		
H1216844	04/08/2012	Ex-Pond Worris Discharge EMP1		
<i>Analysis</i>	<i>Method / Category</i>		<i>Result</i>	<i>Unit</i>
Ammonia	APHA (2005) 4500 - NH3 H (Ammonia)		0.84	mg/L N
BOD5 - Total	APHA (2005) 5210 B (BOD5)		<2	mg/L
Chlorophyll_a	APHA (2005) 10200 H (Chlorophyll_a)		2.1	ug/L
pH	APHA (2005) 4500-H+ B (pH)		7.71	-
Suspended Solids	APHA (2005) 2540 D (Suspended Solids)		1	mg/L
Total Kjeldahl Nitrogen	Inhouse 2 based on APHA (2005) 4500-Norg B (TKN)		2.8	mg/L N
Total Oil and Grease	APHA (2005) 5520 D (Grease)		<2	mg/L
Total Oxidised Nitrogen	APHA (2005) 4500 - NO3 I (TON)		6.2	mg/L N
Total Phosphorus	APHA (2005) 4500 - P H (Phosphorus)		0.28	mg/L P

<i>Sample ID</i>	<i>Date</i>	<i>Description</i>		
H1216846	04/06/2012	Up-Stream EMP3		
<i>Analysis</i>	<i>Method / Category</i>		<i>Result</i>	<i>Unit</i>
pH	APHA (2005) 4500-H+ B (pH)		6.78	-
Total Kjeldahl Nitrogen	Inhouse 2 based on APHA (2005) 4500-Norg B (TKN)		1.1	mg/L N
Total Oxidised Nitrogen	APHA (2005) 4500 - NO3 I (TON)		0.17	mg/L N
Total Phosphorus	APHA (2005) 4500 - P H (Phosphorus)		<0.05	mg/L P

<i>Sample ID</i>	<i>Date</i>	<i>Description</i>		
H1216848	04/08/2012	Down-Stream EMP4		
<i>Analysis</i>	<i>Method / Category</i>		<i>Result</i>	<i>Unit</i>
pH	APHA (2005) 4500-H+ B (pH)		7.09	-
Total Kjeldahl Nitrogen	Inhouse 2 based on APHA (2005) 4500-Norg B (TKN)		1.7	mg/L N
Total Oxidised Nitrogen	APHA (2005) 4500 - NO3 I (TON)		0.72	mg/L N
Total Phosphorus	APHA (2005) 4500 - P H (Phosphorus)		0.07	mg/L P

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*The analytical results on this report are subject to verification*

Tuesday, 12 June 2012

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# PRELIMINARY REPORT

Report PR - 1202081

**To:**  
Oberon Council  
PO Box 84  
Oberon, NSW 2787  
Fax Number: (02) 6336 2061  
For Attention: Ken Robinson  
Order Number: 48397

**From:**  
Kim Smith  
Customer Liaison Officer  
Hunter Water Laboratories  
Telephone: (02) 4935 0500  
Facsimile: (02) 4935 0505  
No. of Pages: 2

<i>Sample ID</i>	<i>Date</i>	<i>Description</i>		
H1220407	09/07/2012	Ex-Pond Works Discharge EMP1		
<i>Analysis</i>	<i>Method / Category</i>		<i>Result</i>	<i>Unit</i>
Ammonia	APHA (2005) 4500 - NH3 H (Ammonia)		0.88	mg/L N
BOD5 - Total	APHA (2005) 5210 B (BOD5)		<2	mg/L
Chlorophyll_a	APHA (2005) 10200 H (Chlorophyll_a)		3.3	ug/L
pH	APHA (2005) 4500-H+ B (pH)		7.67	-
Suspended Solids	APHA (2005) 2540 D (Suspended Solids)		<1	mg/L
Total Kjeldahl Nitrogen	Inhouse 2 based on APHA (2005) 4500-Norg B (TKN)		3.4	mg/L N
Total Oil and Grease	APHA (2005) 5520 D (Grease)		<2	mg/L
Total Oxidised Nitrogen	APHA (2005) 4500 - NO3 I (TON)		5.8	mg/L N
Total Phosphorus	APHA (2005) 4500 - P H (Phosphorus)		0.28	mg/L P

<i>Sample ID</i>	<i>Date</i>	<i>Description</i>		
H1220408	09/07/2012	Up-Stream EMP3		
<i>Analysis</i>	<i>Method / Category</i>		<i>Result</i>	<i>Unit</i>
pH	APHA (2005) 4500-H+ B (pH)		6.88	-
Total Kjeldahl Nitrogen	Inhouse 2 based on APHA (2005) 4500-Norg B (TKN)		1.1	mg/L N
Total Oxidised Nitrogen	APHA (2005) 4500 - NO3 I (TON)		0.20	mg/L N
Total Phosphorus	APHA (2005) 4500 - P H (Phosphorus)		<0.05	mg/L P

<i>Sample ID</i>	<i>Date</i>	<i>Description</i>		
H1220409	09/07/2012	Down-Stream EMP4		
<i>Analysis</i>	<i>Method / Category</i>		<i>Result</i>	<i>Unit</i>
pH	APHA (2005) 4500-H+ B (pH)		7.18	-
Total Kjeldahl Nitrogen	Inhouse 2 based on APHA (2005) 4500-Norg B (TKN)		1.1	mg/L N
Total Oxidised Nitrogen	APHA (2005) 4500 - NO3 I (TON)		0.82	mg/L N
Total Phosphorus	APHA (2005) 4500 - P H (Phosphorus)		<0.05	mg/L P

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**Munday, 16 July 2012**

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# PRELIMINARY REPORT

Report PR - 1202081

**To:**  
Oberon Council  
PO Box 84  
Oberon, NSW 2787  
Fax Number: (02) 6336 2061  
For Attention: Ken Robinson  
Order Number: 48387

**From:**  
Kim Smith  
Customer Liaison Officer  
Hunter Water Laboratories  
Telephone: (02) 4935 0500  
Facsimile: (02) 4935 0505  
No. of Pages: 2

<i>Sample ID</i>	<i>Date</i>	<i>Description</i>		
H1220407	09/07/2012	Ex-Pond Works Discharge EMP1		
<i>Analysis</i>	<i>Method / Category</i>		<i>Result</i>	<i>Unit</i>
Ammonia	APHA (2005) 4500 - NH3 H (Ammonia)		0.88	mg/L N
BOD5 - Total	APHA (2005) 5210 B (BOD5)		<2	mg/L
Chlorophyll_a	APHA (2005) 10200 H (Chlorophyll_a)		3.3	ug/L
pH	APHA (2005) 4500-H+ B (pH)		7.87	-
Suspended Solids	APHA (2005) 2540 D (Suspended Solids)		<1	mg/L
Total Kjeldahl Nitrogen	Inhouse 2 based on APHA (2005) 4600-Norg B (TKN)		3.4	mg/L N
Total Oil and Grease	APHA (2005) 5520 D (Grease)		<2	mg/L
Total Oxidised Nitrogen	APHA (2005) 4500 - NO3 I (TON)		5.6	mg/L N
Total Phosphorus	APHA (2005) 4500 - P H (Phosphorus)		0.28	mg/L P

<i>Sample ID</i>	<i>Date</i>	<i>Description</i>		
H1220408	09/07/2012	Up-Stream EMP3		
<i>Analysis</i>	<i>Method / Category</i>		<i>Result</i>	<i>Unit</i>
pH	APHA (2005) 4500-H+ B (pH)		6.88	-
Total Kjeldahl Nitrogen	Inhouse 2 based on APHA (2005) 4500-Norg B (TKN)		1.1	mg/L N
Total Oxidised Nitrogen	APHA (2005) 4500 - NO3 I (TON)		0.20	mg/L N
Total Phosphorus	APHA (2005) 4500 - P H (Phosphorus)		<0.05	mg/L P

<i>Sample ID</i>	<i>Date</i>	<i>Description</i>		
H1220409	09/07/2012	Down-Stream EMP4		
<i>Analysis</i>	<i>Method / Category</i>		<i>Result</i>	<i>Unit</i>
pH	APHA (2005) 4500-H+ B (pH)		7.18	-
Total Kjeldahl Nitrogen	Inhouse 2 based on APHA (2005) 4500-Norg B (TKN)		1.1	mg/L N
Total Oxidised Nitrogen	APHA (2005) 4500 - NO3 I (TON)		0.82	mg/L N
Total Phosphorus	APHA (2005) 4500 - P H (Phosphorus)		<0.05	mg/L P

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Manday, 16 July 2012

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# INTERIM REPORT OF ANALYSIS

Report HWL - 1201100

**To:**

Oberon Council  
PO Box 84  
Oberon, NSW 2787  
Fax Number: (02) 6336 2061  
For Attention: Ken Robinson/Richard Robinson  
Order Number: 46367

**From:**

Robin Woodward  
Principal Microbiologist  
Hunter Water Laboratories  
Telephone: (02) 4935 0500  
Facsimile: (02) 4935 0505  
No. of Pages: 1

<i>Sample ID</i>	<i>Date</i>	<i>Time Description</i>		
H1220407	08/07/2012	Not recorded	Ex-Pond Works Discharge EMP1	
<i>Analysis</i>	<i>Method / Category</i>		<i>Result</i>	<i>Unit</i>
Confirmed Thermotolerant Coliforme	HWC002 (Thermotolerant coliforme)		<9	CFU/100mL

*R Woodward*

Signed: \_\_\_\_\_

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< less than

~ approximately

est = estimated

ND = not detected

Thursday, 12 July 2012

Page 1 of 1

# PRELIMINARY REPORT

Report PR - 1202364

**To:**

Oberon Council  
PO Box 84  
Oberon, NSW 2787  
Fax Number: (02) 8336 2061  
For Attention: Ken Robinson  
Order Number: 48400

**From:**

Kim Smith  
Customer Liaison Officer  
Hunter Water Laboratories  
Telephone: (02) 4935 0500  
Facsimile: (02) 4935 0505  
No. of Pages: 2

<i>Sample ID</i>	<i>Date</i>	<i>Description</i>		
H1223117	06/08/2012	Ex-Pond Works Discharge EMP1		
<i>Analysis</i>	<i>Method / Category</i>		<i>Result</i>	<i>Unit</i>
Ammonia	APHA (2005) 4500 - NH3 H (Ammonia)		0.72	mg/L N
BOD5 - Total	APHA (2005) 5210 B (BOD5)		<2	mg/L
Chlorophyll_a	APHA (2005) 10200 H (Chlorophyll_a)		7.1	ug/L
pH	APHA (2005) 4500-H+ B (pH)		7.97	-
Suspended Solids	APHA (2005) 2540 D (Suspended Solids)		<1	mg/L
Total Kjeldahl Nitrogen	Inhouse 2 based on APHA (2005) 4500-Norg B (TKN)		2.6	mg/L N
Total Oil and Grease	APHA (2005) 5520 D (Grease)		<2	mg/L
Total Oxidised Nitrogen	APHA (2005) 4500 - NO3 I (TON)		6.2	mg/L N
Total Phosphorus	APHA (2005) 4500 - P H (Phosphorus)		0.24	mg/L P

<i>Sample ID</i>	<i>Date</i>	<i>Description</i>		
H1223118	06/08/2012	Up-Stream EMP3		
<i>Analysis</i>	<i>Method / Category</i>		<i>Result</i>	<i>Unit</i>
pH	APHA (2005) 4500-H+ B (pH)		8.85	-
Total Kjeldahl Nitrogen	Inhouse 2 based on APHA (2005) 4500-Norg B (TKN)		2.2	mg/L N
Total Oxidised Nitrogen	APHA (2005) 4500 - NO3 I (TON)		0.25	mg/L N
Total Phosphorus	APHA (2005) 4500 - P H (Phosphorus)		0.08	mg/L P

<i>Sample ID</i>	<i>Date</i>	<i>Description</i>		
H1223119	06/08/2012	Down-Stream EMP4		
<i>Analysis</i>	<i>Method / Category</i>		<i>Result</i>	<i>Unit</i>
pH	APHA (2005) 4500-H+ B (pH)		7.27	-
Total Kjeldahl Nitrogen	Inhouse 2 based on APHA (2005) 4500-Norg B (TKN)		1.1	mg/L N
Total Oxidised Nitrogen	APHA (2005) 4500 - NO3 I (TON)		0.27	mg/L N
Total Phosphorus	APHA (2005) 4500 - P H (Phosphorus)		0.07	mg/L P

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Tuesday, 14 August 2012

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# INTERIM REPORT OF ANALYSIS

Report HWL - 1201272

**To:**

Oberon Council  
PO Box 84  
Oberon, NSW 2787  
Fax Number: (02) 6336 2061  
For Attention: Ken Robinson  
Order Number: 46400

**From:**

Robin Woodward  
Principal Microbiologist  
Hunter Water Laboratories  
Telephone: (02) 4935 0500  
Facsimile: (02) 4935 0505  
No. of Pages: 1

<i>Sample ID</i>	<i>Date</i>	<i>Time</i>	<i>Description</i>		
H1223117	08/08/2012	14:00	Ex-Pond Works Discharge EMP1		
<i>Analysis</i>	<i>Method / Category</i>			<i>Result</i>	<i>Unit</i>
Confirmed Thermotolerant Coliforms	HWC002 (Thermotolerant coliforms)			<9	CFU/100mL

*R Woodward*

Signed: \_\_\_\_\_

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est = estimated

ND = not detected

Thursday, 9 August 2012

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# HUNTER WATER LABORATORIES

A CONSULTING DIVISION OF HUNTER WATER AUSTRALIA PTY LIMITED  
ABN 19 080 859 905

23 Rosegum Drive  
WARABROOK NSW 2304  
Tele: (02) 4935 0500  
Fax: (02) 4935 0505

PO Box 317  
Hunter Regional Mail Centre  
NSW 2310



## REPORT OF ANALYSIS

**Customer:** Oberon Council  
PO Box 84, Oberon, NSW 2787

**Contact:** Ken Robinson

**Sample Date:** 3 September 2012

**Date Received:** 4 September 2012

3 Water samples sampled and submitted by customer and tested as received

**Order Number:** 47504

**Report Number:** HWA-4329/12

**Note:** This report replaces Preliminary Report Number PR-1202663

<i>Sample ID</i>	<i>Date</i>	<i>Description</i>
H1225770	3/09/2012	Ex-Pond Works Discharge EMP1

  

<i>Analysis</i>	<i>Method / Category</i>	<i>Result</i>	<i>Unit</i>
Ammonia	APHA (2005) 4500 - NH3 H (Ammonia)	1.2	mg/L N
BOD5 - Total	APHA (2005) 5210 B (BOD5)	<2	mg/L
Chlorophyll_a	APHA (2005) 10200 H (Chlorophyll_a)	6.7	ug/L
pH	APHA (2005) 4500-H+ B (pH)	7.36	
Suspended Solids	APHA (2005) 2540 D (Suspended Solids)	<1	mg/L
Total Kjeldahl Nitrogen	Inhouse 2 based on APHA (2005) 4500-Norg B (TKN)	4.5	mg/L N
Total Oil and Grease	APHA (2005) 5520 D (Grease)	<2	mg/L
Total Oxidised Nitrogen	APHA (2005) 4500 - NO3 I (TON)	4.6	mg/L N
Total Phosphorus	APHA (2005) 4500 - P H (Phosphorus)	0.32	mg/L P

  

<i>Sample ID</i>	<i>Date</i>	<i>Description</i>
H1225771	3/09/2012	Up-Stream EMP3

  

<i>Analysis</i>	<i>Method / Category</i>	<i>Result</i>	<i>Unit</i>
pH	APHA (2005) 4500-H+ B (pH)	6.92	-
Total Kjeldahl Nitrogen	Inhouse 2 based on APHA (2005) 4500-Norg B (TKN)	2.0	mg/L N
Total Oxidised Nitrogen	APHA (2005) 4500 - NO3 I (TON)	0.22	mg/L N
Total Phosphorus	APHA (2005) 4500 - P H (Phosphorus)	<0.05	mg/L P

*The results of the tests, calibrations &/or measurements included in this document are traceable to Australian/national standards.*

*The results on this report relate only to the items tested.*

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Wednesday, 12 September 2012

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# HUNTER WATER LABORATORIES

A CONSULTING DIVISION OF HUNTER WATER AUSTRALIA PTY LIMITED  
ABN 19 080 869 903

23 Rossignol Drive  
WARABROOK NSW 2304  
Tele: (02) 4935 0500  
Fax: (02) 4935 0505

PO Box 317  
Hunter Regional Mail Centre  
NSW 2310



## REPORT OF ANALYSIS

**Customer:** Oberon Council  
PO Box 84, Oberon, NSW 2787

**Contact:** Ken Robinson

**Sample Date:** 3 September 2012

**Date Received:** 4 September 2012 at 09:00 - Sample Temperature 9°C  
1 Water sample sampled and submitted by customer and tested as received

**Testing Commenced:** 4 September 2012 at 10:00

**Order Number:** 47504

**Report Number:** HWA-4246/12

**Note:** Interim Report Number HWL-1201417 sent by email on the 6 September 2012.

Sample ID	Date	Time	Description	
H1225770	3/09/2012	08:00	Ex-Pond Works Discharge BMP1	
Analysis	Method / Category		Result	Unit
Confirmed Thermotolerant Coliforms	HWC002 (Thermotolerant coliforms)		<5	CFU/100mL

*R Woodward*

Robin Woodward  
Principal Microbiologist  
6 September 2012

*When testing cannot be performed within 6 hours of collection, samples may be examined up to 24 hours after collection provided samples are kept cool (2°C to 10°C) and in the dark.*

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< less than

-- approximately

est = estimated

ND = not detected

Thursday, 6 September 2012

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# HUNTER WATER LABORATORIES

A CONSULTING DIVISION OF HUNTER WATER AUSTRALIA PTY LIMITED  
ABN 19 080 869 905

23 Rosegum Drive  
WARABROOK NSW 2304  
Tele: (02) 4935 0500  
Fax: (02) 4935 0505

PO Box 317  
Hunter Regional Mail Centre  
NSW 2310



## REPORT OF ANALYSIS

**Customer:** Oberon Council  
PO Box 84, Oberon, NSW 2787

**Contact:** Ken Robinson

**Sample Date:** 8 October 2012

**Date Received:** 9 October 2012

3 samples sampled and submitted by customer and tested as received

**Order Number:** 47507

**Report Number:** HWA-4877/12

Note: This report replaces Preliminary Report Number PR-1202964

<i>Sample ID</i>	<i>Date</i>	<i>Description</i>		
H1228929	8/10/2012	Ex-Pond Works Discharge EMP1		
<i>Analysis</i>	<i>Method / Category</i>		<i>Result</i>	<i>Unit</i>
Ammonia	APHA (2005) 4500 - NH3 H (Ammonia)		1.0	mg/L N
BOD5 - Total	APHA (2005) 5210 B (BOD5)		<2	mg/L
Chlorophyll_a	APHA (2005) 10200 H (Chlorophyll_a)		3.0	ug/L
pH	APHA (2005) 4500-H+ B (pH)		7.61	
Suspended Solids	APHA (2005) 2540 D (Suspended Solids)		6	mg/L
Total Kjeldahl Nitrogen	Inhouse 2 based on APHA (2005) 4500-Norg B (TKN)		3.4	mg/L N
Total Oil and Grease	APHA (2005) 5520 D (Grease)		<2	mg/L
Total Oxidised Nitrogen	APHA (2005) 4500 - NO3 I (TON)		2.8	mg/L N
Total Phosphorus	APHA (2005) 4500 - P H (Phosphorus)		0.31	mg/L P
<i>Sample ID</i>	<i>Date</i>	<i>Description</i>		
H1228930	8/10/2012	Up-Stream EMP3		
<i>Analysis</i>	<i>Method / Category</i>		<i>Result</i>	<i>Unit</i>
pH	APHA (2005) 4500-H+ B (pH)		7.11	
Total Kjeldahl Nitrogen	Inhouse 2 based on APHA (2005) 4500-Norg B (TKN)		0.8	mg/L N
Total Oxidised Nitrogen	APHA (2005) 4500 - NO3 I (TON)		0.20	mg/L N
Total Phosphorus	APHA (2005) 4500 - P H (Phosphorus)		<0.05	mg/L P

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Tuesday, 16 October 2012

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**REPORT OF ANALYSIS**

Number: 4877/12

<i>Sample ID</i>	<i>Date</i>	<i>Description</i>		
H1228931	8/10/2012	Down-Stream EMP4		
<i>Analysis</i>	<i>Method / Category</i>		<i>Result</i>	<i>Unit</i>
pH	APHA (2005) 4500-H+ B (pH)		7.16	
Total Kjeldahl Nitrogen	Inhouse 2 based on APHA (2005) 4500-Norg B (TKN)		1.1	mg/L N
Total Oxidised Nitrogen	APHA (2005) 4500 - NO3 I (TON)		0.23	mg/L N
Total Phosphorus	APHA (2005) 4500 - P H (Phosphorus)		0.05	mg/L P



Neil Martin  
Chem Team Leader  
16 October 2012

# HUNTER WATER LABORATORIES

A CONSULTING DIVISION OF HUNTER WATER AUSTRALIA PTY LIMITED  
ABN 19 080 869 905

23 Rosegum Drive  
WARABROOK NSW 2304  
Tele: (02) 4935 0500  
Fax: (02) 4935 0505

PO Box 317  
Hunter Regional Mail Centre  
NSW 2310



## REPORT OF ANALYSIS

**Customer:** Oberon Council  
PO Box 84, Oberon, NSW 2787

**Contact:** Ken Robinson

**Sample Date:** 8 October 2012

**Date Received:** 9 October 2012 at 09:50 - Sample Temperature 13°C  
1 sample sampled and submitted by customer and tested as received

**Testing Commenced:** 9 October 2012 at 10:10

**Order Number:** 47507

**Report Number:** HWA-4791/12

Note: Interim Report Number HWL-1201621 sent by email on the 11 October 2012.

<i>Sample ID</i>	<i>Date</i>	<i>Time</i>	<i>Description</i>		
H1228929	8/10/2012	14:00	Ex-Pond Works Discharge EMP1		
<i>Analysis</i>	<i>Method / Category</i>			<i>Result</i>	<i>Unit</i>
Confirmed Thermotolerant Coliforms	HWC002 (Thermotolerant coliforms)			est <5	CFU/100mL

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~ approximately

est = estimated

ND = not detected

Friday, 12 October 2012

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**Sample Comments:**

H1228929 - Thermotolerant coliform result is estimated due to the high number of non-target colonies present.



Robin Woodward  
Principal Microbiologist  
12 October 2012

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# HUNTER WATER LABORATORIES

A CONSULTING DIVISION OF HUNTER WATER AUSTRALIA PTY LIMITED  
ABN 19 080 869 905

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WARABROOK NSW 2304  
Tele: (02) 4935 0500  
Fax: (02) 4935 0505

PO Box 317  
Hunter Regional Mail Centre  
NSW 2310



## REPORT OF ANALYSIS

**Customer:** Oberon Council  
PO Box 84, Oberon, NSW 2787

**Contact:** Ken Robinson

**Sample Date:** 8 October 2012

**Date Received:** 9 October 2012

1 sample sampled and submitted by customer and tested as received

**Order Number:** 47508

**Report Number:** HWA-4876/12

Note: This report replaces Preliminary Report Number PR-1202963

<i>Sample ID</i>	<i>Date</i>	<i>Description</i>		
H1228928	8/10/2012	CHH Trade Waste works discharge bryne to sewer		
<i>Analysis</i>	<i>Method / Category</i>		<i>Result</i>	<i>Unit</i>
Alkalinity 4.5	APHA (2005) 2320 B (Alkalinity)		608	mg/L CaCO <sub>3</sub>
Ammonia	APHA (2005) 4500 - NH <sub>3</sub> H (Ammonia)		0.14	mg/L N
BOD5 - Total	APHA (2005) 5210 B (BOD5)		7	mg/L
Colour-True	APHA (2005) 2120 B (Colour - True)		180	Hazen
pH	APHA (2005) 4500-H+ B (pH)		8.17	
Suspended Solids	APHA (2005) 2540 D (Suspended Solids)		5	mg/L
Total Kjeldahl Nitrogen	Inhouse 2 based on APHA (2005) 4500-Norg B (TKN)		7.8	mg/L N
Total Oxidised Nitrogen	APHA (2005) 4500 - NO <sub>3</sub> I (TON)		0.08	mg/L N
Total Phosphorus	APHA (2005) 4500 - P H (Phosphorus)		0.08	mg/L P

Neil Martin  
Chem Team Leader  
16 October 2012

*The results of the tests, calibrations &/or measurements included in this document are traceable to Australian/national standards.*

*The results on this report relate only to the items tested.*

*This document shall not be reproduced, except in full.*

Tuesday, 16 October 2012

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DE(A)

-Wat Supp/Maint/Tr Plants

# PRELIMINARY REPORT

Report PR - 1203220

**To:**  
Oberon Council  
PO Box 84  
Oberon, NSW 2787  
Fax Number: (02) 6336 2061  
For Attention: Ken Robinson  
Order Number: 47510

**From:**  
Kim Smith  
Customer Liaison Officer  
Hunter Water Laboratories  
Telephone: (02) 4935 0500  
Facsimile: (02) 4935 0505  
No. of Pages: 2

<i>Sample ID</i>	<i>Date</i>	<i>Description</i>		
H1231549	05/11/2012	Ex-Pond Works Discharge EMP1		
<i>Analysis</i>	<i>Method / Category</i>		<i>Result</i>	<i>Unit</i>
Ammonia	APHA (2005) 4500 - NH3 H (Ammonia)		0.24	mg/L N
BOD5 - Total	APHA (2005) 5210 B (BOD5)		<2	mg/L
Chlorophyll_a	APHA (2005) 10200 H (Chlorophyll_a)		1.1	ug/L
pH	APHA (2005) 4500-H+ B (pH)		7.72	-
Suspended Solids	APHA (2005) 2540 D (Suspended Solids)		8	mg/L
Total Kjeldahl Nitrogen	Inhouse 2 based on APHA (2005) 4500-Norg B (TKN)		3.1	mg/L N
Total Oil and Grease	APHA (2005) 5620 D (Grease)		<2	mg/L
Total Oxidised Nitrogen	APHA (2005) 4500 - NO3 I (TON)		1.4	mg/L N
Total Phosphorus	APHA (2005) 4500 - P H (Phosphorus)		0.31	mg/L P

<i>Sample ID</i>	<i>Date</i>	<i>Description</i>		
H1231550	05/11/2012	Up-Stream EMP3		
<i>Analysis</i>	<i>Method / Category</i>		<i>Result</i>	<i>Unit</i>
pH	APHA (2005) 4500-H+ B (pH)		6.86	-
Total Kjeldahl Nitrogen	Inhouse 2 based on APHA (2005) 4500-Norg B (TKN)		1.7	mg/L N
Total Oxidised Nitrogen	APHA (2005) 4500 - NO3 I (TON)		0.14	mg/L N
Total Phosphorus	APHA (2005) 4500 - P H (Phosphorus)		<0.05	mg/L P

<i>Sample ID</i>	<i>Date</i>	<i>Description</i>		
H1231551	05/11/2012	Down-Stream EMP4		
<i>Analysis</i>	<i>Method / Category</i>		<i>Result</i>	<i>Unit</i>
pH	APHA (2005) 4500-H+ B (pH)		7.01	-
Total Kjeldahl Nitrogen	Inhouse 2 based on APHA (2005) 4500-Norg B (TKN)		0.8	mg/L N
Total Oxidised Nitrogen	APHA (2005) 4500 - NO3 I (TON)		0.21	mg/L N
Total Phosphorus	APHA (2005) 4500 - P H (Phosphorus)		0.06	mg/L P

**This is a Preliminary Report, not a Final Report**  
*Results from this report are not to be reproduced without acknowledgement*  
*The analytical results on this report are subject to verification*

Tuesday, 13 November 2012

Page 1 of 2

# PRELIMINARY REPORT

Report PR - 1203454

**To:**

Oberon Council  
PO Box 84  
Oberon, NSW 2787  
Fax Number: (02) 6336 2061  
For Attention: Ken Robinson  
Order Number: 47512

**From:**

Kim Smith  
Customer Liaison Officer  
Hunter Water Laboratories  
Telephone: (02) 4935 0500  
Facsimile: (02) 4935 0505  
No. of Pages: 2

<i>Sample ID</i>	<i>Date</i>	<i>Description</i>		
H1234126	03/12/2012	Ex-Pond Works Discharge EMP1		
<i>Analysis</i>	<i>Method / Category</i>		<i>Result</i>	<i>Unit</i>
Ammonia	APHA (2005) 4500 - NH3 H (Ammonia)		0.71	mg/L N
BOD5 - Total	APHA (2005) 5210 B (BOD5)		<2	mg/L
Chlorophyll_a	APHA (2005) 10200 H (Chlorophyll_a)		2.8	ug/L
pH	APHA (2005) 4500-H+ B (pH)		7.59	-
Suspended Solids	APHA (2005) 2540 D (Suspended Solids)		3	mg/L
Total Kjeldahl Nitrogen	Inhouse 2 based on APHA (2005) 4500-Norg B (TKN)		3.4	mg/L N
Total Oil and Grease	APHA (2005) 5620 D (Grease)		<2	mg/L
Total Oxidised Nitrogen	APHA (2005) 4500 - NO3 I (TON)		0.88	mg/L N
Total Phosphorus	APHA (2005) 4500 - P H (Phosphorus)		0.54	mg/L P

<i>Sample ID</i>	<i>Date</i>	<i>Description</i>		
H1234126	03/12/2012	Up-Stream EMP3		
<i>Analysis</i>	<i>Method / Category</i>		<i>Result</i>	<i>Unit</i>
pH	APHA (2005) 4500-H+ B (pH)		5.74	-
Total Kjeldahl Nitrogen	Inhouse 2 based on APHA (2005) 4500-Norg B (TKN)		1.4	mg/L N
Total Oxidised Nitrogen	APHA (2005) 4500 - NO3 I (TON)		0.10	mg/L N
Total Phosphorus	APHA (2005) 4500 - P H (Phosphorus)		0.05	mg/L P

<i>Sample ID</i>	<i>Date</i>	<i>Description</i>		
H1234127	03/12/2012	Down-Stream EMP4		
<i>Analysis</i>	<i>Method / Category</i>		<i>Result</i>	<i>Unit</i>
pH	APHA (2005) 4500-H+ B (pH)		7.00	-
Total Kjeldahl Nitrogen	Inhouse 2 based on APHA (2005) 4500-Norg B (TKN)		1.1	mg/L N
Total Oxidised Nitrogen	APHA (2005) 4500 - NO3 I (TON)		0.14	mg/L N
Total Phosphorus	APHA (2005) 4500 - P H (Phosphorus)		0.11	mg/L P

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Tuesday, 11 December 2012

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# INTERIM REPORT OF ANALYSIS

Report BWL - 1201977

**To:**  
Oberon Council  
PO Box 84  
Oberon, NSW 2787  
Fax Number: (02) 8336 2061  
For Attention: Ken Robinson  
Order Number: 47512

**From:**  
Robin Woodward  
Principal Microbiologist  
Hunter Water Laboratories  
Telephone: (02) 4935 0500  
Facsimile: (02) 4935 0505  
No. of Pages: 1

<i>Sample ID</i>	<i>Date</i>	<i>Time Description</i>		
H1234125	03/12/2012	14:00 Ex-Pond Works Discharge EMP1		
<i>Analysis</i>	<i>Method / Category</i>		<i>Result</i>	<i>Unit</i>
Confirmed Thermotolerant Coliforms	HWC002 (Thermotolerant coliforms)		est. 3	CFU/100mL

*R Woodward*

Signed: \_\_\_\_\_

**This is an Interim Report, not a Final Report**

*Results from this report are not to be reproduced without acknowledgement*

*The results on this report are subject to verification*

< less than

~ approximately

est = estimated

ND = not detected

Friday, 7 December 2012

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