

Request for Analysis

Caboolture Shire Council
 CabWater Laboratory
 67a Weier Rd Morayfield

REQUEST No. 174/05

Date sampled 3/8/05
 received 3/8/05

Requested by Caboolture Caravan Park

Sampled by Peter Lees

Accepted by Peter Lees

Sample description Effluent

Analyses required As below

CHEMICAL TEST REPORT

Analyte	Result	Units	Test method	Error assessment	Detection limit
pH	6.71	pH	TM15A	± 0.08	0 - 14
Conductivity	733	µS/cm	TM07A	± 1%	2
Turbidity	5.6	NTU	TM21A	± 8%	0.02
Ammonia N	0.25	mg/L	TM22F	± 4%	0.02
NOx N	28.22	mg/L	TM23F	± 8%	0.02
BOD	10	mg/L	TM02	± 16%	3
SS	9	mg/L	TM12	± 2	2
Total N	30.1	mg/L	TM25F	± 15%	0.5
Total P	6.24	mg/L	TM16TKP	± 15%	0.05
COD	44	mg/L	TM05	± 10%	20
Free Chlorine	<0.05	mg/L	TM04	± 0.2	0.1
DO	4.13	mg/L	TM08A		
TKN	1.9	mg/L	TM25A	± 7%	0.5

These results apply to the sample supplied and not the batch from which it was drawn.

NATA Accredited Laboratory

Number: **14414**

Analysed by Kerry Holmes, Mark Scott, Chris Pipe-Martin,
Melinda Barlow

Date: 8/8/05

Checked by Chris Pipe-Martin
Chemist in Charge

sch4-Signature

Date: 1/9/05

Run verification

The following results are used to check test accuracy, they are not sample test results.

Run verification					
Analyte	Test method	Standard	Concn.	Result	Control limit
pH	TM15	pH buffer	7.00/4.00	-	std +/- 0.1
Conductivity	TM07	KCl	1408µS/cm	-	+/-30
Turbidity	TM21	formazin	4.0 NTU	-	+/-1
Ammonia N	TM22F	NH4Cl	0.82 mg/L	0.82	+/- 0.04
NOx N	TM23F	KNO3	2.2 mg/L	2.22	+/-0.3
BOD	TM02	Glucose	200 mg/L	202	+/- 48
SS	TM12	K	100 mg/L	99	+/- 10
TKN	TM25F	NH4Cl	8.2 mg/L	8.7	+/- 0.8
Total P	TM16TKP	K2HPO4	5.0 mg/L	5.23	+/- 0.6
COD	TM05	KHP	100 mg/L	100	+/- 18

Form 13.2/F3_WQBACT

Request for Analysis

Caboolture Shire Council
CabWater Laboratory
67 Weier Rd Morayfield

REQUEST No. 174/05

Date sampled 3/8/05
received 3/8/05

Requested by Caboolture Caravan Park
Sampled by Peter Lees
Accepted by Peter Lees
Sample description final effluent
Analyses required Faecal coliforms

MICROBIOLOGICAL TEST REPORT

Analyte	Result	Units	Test method
Faecal coliforms	>8000	CFU/ 100ml	TM32

Analysed by Ken Knyvett
Checked by 
Chemist in Charge

Date: 4/8/05

Date: 1/9/05

Form 13.2/F3_CHEM

Request for Analysis

Caboolture Shire Council
CabWater Laboratory
67a Weier Rd Morayfield

REQUEST No. 2/05

Date sampled 5/1/05
received 5/1/05

Requested by Caboolture Caravan Park

Sampled by A. Dale

Accepted by A Dale

Sample description STP effluent

Analyses required As below

CHEMICAL TEST REPORT

Analyte	Result	Units	Test method	Error assessment	Detection limit
pH	7.01	pH	TM15A	± 0.08	0 -14
Conductivity	606	µS/cm	TM07A	± 1%	2
Turbidity	7	NTU	TM21A	± 8%	0.02
Ammonia N	0.61	mg/L	TM22F	± 4%	0.02
NOx N	1.98	mg/L	TM23F	± 8%	0.02
BOD	<5	mg/L	TM02	± 16%	3
Suspended Solids	6	mg/L	TM12	± 2	2
Total N	4.18	mg/L	TM25F	± 15%	0.5
Total P	3.76	mg/L	TM16TKP	± 15%	0.05
COD	23	mg/L	TM30	± 10%	20
Free Chlorine	<0.1	mg/L	TM04	± 0.2	0.1
DO	2.28	mg/L	TM08A	± 0.1	0.2
TKN	2.2	mg/L	TM25A	± 7%	0.5

These results apply to the sample supplied and not the batch from which it was drawn.

Analysed by KH, MB, AD

Date: 10/1/05

Checked by C. Pipe-Martin
Chemist in Charge

sch4-Signature

Date: 19/1/05

Run verification

The following results are used to check test accuracy, they are not sample test results.

Run verification					
Analyte	Test method	Standard	Concn.	Result	Control limit
Ammonia N	TM22F	NH ₄ Cl	0.82 mg/L	0.82	+/- 0.04
NO _x N	TM23F	KNO ₃	0.22 mg/L	0.22	+/-0.03
BOD	TM02	Glucose Glutamic acid	200 mg/L	200	+/- 48
SS	TM12	Kieselguhr	100 mg/L	98	+/- 10
TKN	TM25F	NH ₄ Cl	8.2 mg/L	8.2	+/- 0.8
Total P	TM16TKP	K ₂ HPO ₄	5.0 mg/L	5.13	+/- 0.6
COD	TM05	KHP	100 mg/L	99	+/- 18

Form 13.2/F3_WQBACT

Request for Analysis

Caboolture Shire Council
CabWater Laboratory
67a Weier Rd Morayfield

REQUEST No. 2/05

Date Sampled 5/1/05
Received 5/1/05

Requested by: Caboolture Caravan Park

Sampled by: A. Dale

Accepted by: A. Dale

Sample description: STP effluent

Analyses required: Faecal coliforms

MICROBIOLOGICAL TEST REPORT

Analyte	Result	Units	Test method
Faecal coliforms	400	CFU/ 100ml	TM32

Analysed by C. Pipe-Martin

Date: 5/1/05

Checked by C. Pipe-Martin
Chemist in Charge

sch4-Signature

Date: 19/1/05

Form 13.2/F3_WQBACT

Request for Analysis

Caboolture Shire Council
CabWater Laboratory
67a Weier Rd Morayfield

REQUEST No. 320-04

Date Sampled 15/12/04
 Received 15/12/04

Requested by: Caboolture Caravan Park

Sampled by: P. Lees

Accepted by: A Dale

Sample description: Effluent

Analyses required: Faecal coliforms

MICROBIOLOGICAL TEST REPORT

Analyte	Result	Units	Test method
Faecal coliforms	>80	CFU/ 100ml	TM32

Analysed by K. Kynett

Date: 15/12/04

Checked by C. Pipe-Martin
 Chemist in Charge

sch4-Signature

Date: 23/12/04

Request for Analysis

Caboolture Shire Council
CabWater Laboratory
67a Weier Rd Morayfield

REQUEST No. 320-04

Date sampled 15/12/04
received 15/12/04

Requested by Caboolture Caravan Park

Sampled by P. Lees

Accepted by A Dale

Sample description Effluent

Analyses required As below

CHEMICAL TEST REPORT

Analyte	Result	Units	Test method	Error assessment	Detection limit
pH	6.59	pH	TM15	± 0.08	0 -14
Conductivity	410	µS/cm	TM07	± 1%	2
Turbidity	3	NTU	TM21	± 8%	0.02
Ammonia N	0.21	mg/L	TM22F	± 4%	0.02
NOx N	9.78	mg/L	TM23F	± 8%	0.02
BOD	<5	mg/L	TM02	± 16%	3
Suspended Solids	4	mg/L	TM12	± 2	2
Total N	11.75	mg/L	TM25F	± 15%	0.5
Total P	2.58	mg/L	TM16TKP	± 15%	0.05
COD	24	mg/L	TM30	± 10%	20
Free Chlorine	<0.1	mg/L	TM04	± 0.2	0.1
DO	3.68	mg/L	TM08B		
TKN	1.97	mg/L	TM25A	± 7%	0.5

These results apply to the sample supplied and not the batch from which it was drawn.

NATA Accredited Laboratory

Number: 14414

Analysed by KH, MB, FK, AD

Date: 21/12/04

Checked by C. Pipe-Martin
Chemist in Charge

sch4-Signature

Date: 23/12/04

Run verification

The following results are used to check test accuracy, they are not sample test results.

Run verification					
Analyte	Test method	Standard	Concn.	Result	Control limit
Ammonia N	TM22F	NH ₄ Cl	0.82 mg/L	0.91	+/- 0.04
NO _x N	TM23F	KNO ₃	2.2 mg/L	2.26	+/-0.3
BOD	TM02	Glucose	200 mg/L	168	+/- 48
SS	TM12	K	100 mg/L	100	+/- 10
TKN	TM25F	NH ₄ Cl	8.2 mg/L	7.43	+/- 0.8
Total P	TM16TKP	K ₂ HPO ₄	5.0 mg/L	4.94	+/- 0.6
COD	TM05	KHP	100 mg/L	100	+/- 18



CABOOLTURE CABIN & CARAVAN PARK

Phone (07) 5495 1400
Fax (07) 5495 1405

Burnett Road,
Caboolture, Qld. 4510

our copy

1 February 1999

Attn Miguel Zavaleta
Dept of Environment
GPO Box 2771
BRISBANE QLD 4001

Alternative Disposal Treatment Options 04

I have analysed the three alternative options of our licence, the first two at this stage would not be economical although in the long term when finance is available I would like to consider option (ii).

However at this stage option (iii) appears to be our only alternative. I have spoken too Dan Pymble from the Aquatec-Maxcon Group who in conjunction with Simmonds & Bristow monitors the operation and testing of our sewerage plant. Dan will now monitor the phosphorus and nitrogen content of the disposal and if need be we will put in a plan of action to comply with option (iii).

sch4p4(6) Personal information

Keith Willis
Director

**CABOOLTURE SHIRE COUNCIL
CABWATER SCIENTIFIC SERVICES
67A WEIER ROAD MORAYFIELD
TELEPHONE (07) 5420 0720**

REQUESTED BY: **Caboolture Caravan Park**
Burnett Rd. Caboolture. 4510

REPORT DATE: 16-Jan-06

SUBJECT: Caboolture Caravan Park Final Effluent
Chemical Test Report

SAMPLE DATE: 3-Jan-07
SAMPLE BY: Graeme Hill

REPORTED BY: Mark Scott

ISSUED BY: Kerry Holmes for Ken Knyvett
Laboratory Coordinator Scientific Services

Authorised BY: Chris Pipe-Martin
Manager Cabwater Scientific Services

Analyte	Caboolture Caravan Park Final	Units	Uncertainty	Detection Limit
pH	7.05	pH	0.08	0-14
Conductivity	697	µS/cm	1%	2
Turbidity	8	NTU	8%	0.02
DO	3.08	mg/L	13%	1
Free Chlorine	0.65	mg/L	0.2	0.1
Suspended Solids	3	mg/L	2	2
COD	21	mg/L	12%	12
BOD	<3	mg/L	16%	3
Ammonia-N	0.07	mg/L	8%	0.02
Nox	11.58	mg/L	8%	0.02
TKN	2.5	mg/L	7%	0.5
Total N	14.1	mg/L	15%	0.52
Total P	7.44	mg/L	8%	0.05

Note: These results apply to the samples supplied and not the batch from which it was drawn.

CCP Chem 01 030107.xls

**CABOOLTURE SHIRE COUNCIL
CABWATER SCIENTIFIC SERVICES
67A WEIER ROAD MORAYFIELD
TELEPHONE (07) 5420 0720**

REQUESTED BY: **Caboolture Caravan Park**
Burnett Rd. Caboolture. 4510

REPORT DATE: 21-Feb-07

SUBJECT: Caboolture Caravan Park Final Effluent
Chemical Test Report

SAMPLE DATE: 7-Feb-07
SAMPLE BY: Graeme Hill

REPORTED BY: Linda Cox

ISSUED BY: Kenneth T.P. Knyvett
Laboratory Coordinator Scientific Services

Authorised BY: Chris Pipe-Martin
Manager Cabwater Scientific Services

Analyte	Caboolture Caravan Park Final	Units	Uncertainty	Detection Limit
pH	6.63	pH	0.08	0-14
Conductivity	679	µS/cm	1%	2
Turbidity	0.4	NTU	8%	0.02
DO	2.38	mg/L	13%	1
Free Chlorine	<0.05	mg/L	0.2	0.1
Suspended Solids	5	mg/L	2	2
COD	101	mg/L	12%	12
BOD	<5	mg/L	16%	3
Ammonia-N	0.46	mg/L	8%	0.02
Nox	27.8	mg/L	8%	0.02
TKN	2.05	mg/L	7%	0.5
Total N	29.85	mg/L	15%	0.52
Total P	7.89	mg/L	8%	0.05

Note: These results apply to the samples supplied and not the batch from which it was drawn.
Note bold results indicate failed control and are to be used as a guide only
CCP Chem 02 070207.xls

**CABOOLTURE SHIRE COUNCIL
CABWATER SCIENTIFIC SERVICES
67A WEIER ROAD MORAYFIELD
TELEPHONE (07) 5420 0720**

REQUESTED BY: **Caboolture Caravan Park**
Burnett Rd. Caboolture. 4510

REPORT DATE: 30-Apr-07

SUBJECT: Caboolture Caravan Park Final Effluent
Chemical Test Report

SAMPLE DATE: 7-Mar-07
SAMPLE BY: Graeme Hill

REPORTED BY: Linda Cox

ISSUED BY: Ken Knyvett 1.05.07
Laboratory Coordinator Scientific Services

Authorised BY: Chris Pipe-Martin
Manager Cabwater Scientific Services

Analyte	Caboolture Caravan Park Final	Units	Uncertainty	Detection Limit
pH	7.14	pH	0.08	0-14
Conductivity	894	µS/cm	1%	2
Turbidity	7	NTU	8%	0.02
DO	2.34	mg/L	13%	1
Free Chlorine	0.1	mg/L	0.2	0.1
Suspended Solids	9	mg/L	2	2
COD	<12	mg/L	12%	12
BOD	<5	mg/L	16%	3
Ammonia-N	0.08	mg/L	8%	0.02
Nox	19.25	mg/L	8%	0.02
TKN	2.2	mg/L	7%	0.5
Total N	21.45	mg/L	15%	0.52
Total P	7.17	mg/L	8%	0.05

Note: These results apply to the samples supplied and not the batch from which it was drawn.

CCP Chem 03 070307.xls

**CABOOLTURE SHIRE COUNCIL
CABWATER SCIENTIFIC SERVICES
67A WEIER ROAD MORAYFIELD
TELEPHONE (07) 5420 0720**

REQUESTED BY: **Caboolture Caravan Park**
Burnett Rd. Caboolture. 4510

REPORT DATE: 11-May-07

SUBJECT: Caboolture Caravan Park Final Effluent
Chemical Test Report

SAMPLE DATE: 4-Apr-07
SAMPLE BY: Graeme Hill

REPORTED BY: Linda Cox

ISSUED BY: Ken Knyvett 14/05/2007
Laboratory Coordinator Scientific Services

Authorised BY: Chris Pipe-Martin
Manager Cabwater Scientific Services

Analyte	Caboolture Caravan Park Final	Units	Uncertainty	Detection Limit
pH	7.19	pH	0.08	0-14
Conductivity	902	μ S/cm	1%	2
Turbidity	11	NTU	8%	0.02
DO	5.70	mg/L	13%	1
Free Chlorine	0.1	mg/L	0.2	0.1
Suspended Solids	12	mg/L	2	2
COD	26	mg/L	12%	12
BOD	<5	mg/L	16%	3
Ammonia-N	1.33	mg/L	8%	0.02
NOx	33.76	mg/L	8%	0.02
TKN	1.9	mg/L	7%	0.5
Total N	35.7	mg/L	15%	0.5
Total P	5.70	mg/L	8%	0.05

Note: These results apply to the samples supplied and not the batch from which it was drawn.

CCP Chem 04 040407.xls

**CABOOLTURE SHIRE COUNCIL
CABWATER SCIENTIFIC SERVICES
67A WEIER ROAD MORAYFIELD
TELEPHONE (07) 5420 0720**

REQUESTED BY: **Caboolture Caravan Park**
Burnett Rd. Caboolture. 4510

REPORT DATE: 17-May-07

SUBJECT: Caboolture Caravan Park Final Effluent
Chemical Test Report

SAMPLE DATE: 2-May-07
SAMPLE BY: Graeme Hill

REPORTED BY:

ISSUED BY: Ken Knyvett 04.06.07
Laboratory Coordinator Scientific Services

Authorised BY: Chris Pipe-Martin
Manager Cabwater Scientific Services

Analyte	Caboolture Caravan Park Final	Units	Uncertainty	Detection Limit
pH	7.17	pH	0.08	0-14
Conductivity	930	μ S/cm	1%	2
Turbidity	6	NTU	8%	0.02
DO	4.35	mg/L	13%	1
Free Chlorine	0.1	mg/L	0.2	0.1
Suspended Solids	3	mg/L	2	2
COD	22	mg/L	12%	12
BOD	<5	mg/L	16%	3
Ammonia-N	0.1	mg/L	8%	0.02
Nox	36.36	mg/L	8%	0.02
TKN	2.0	mg/L	7%	0.5
Total N	38.4	mg/L	15%	0.5
Total P	9.30	mg/L	8%	0.05

Note: These results apply to the samples supplied and not the batch from which it was drawn.

**CABGOLTURE SHIRE COUNCIL
CABWATER SCIENTIFIC SERVICES
67A WEIER ROAD MORAYFIELD
TELEPHONE (07) 5420 0720**

REQUESTED BY: **Caboolture Caravan Park**
Burnett Rd. Caboolture. 4510

REPORT DATE: 15-Jun-07

SUBJECT: Caboolture Caravan Park Final Effluent
Chemical Test Report

SAMPLE DATE: 6-Jun-07
SAMPLE BY: Graeme Hill

REPORTED BY: Mark Scott

ISSUED BY: Ken Knyvett 18/06/2007
Laboratory Coordinator Scientific Services

Authorised BY: Chris Pipe-Martin
Manager Cabwater Scientific Services

Analyte	Caboolture Caravan Park Final	Units	Uncertainty	Detection Limit
pH	7.1	pH	0.08	0-14
Conductivity	799	µS/cm	1%	2
Turbidity	3	NTU	8%	0.02
DO	3.76	mg/L	13%	1
Free Chlorine	0.1	mg/L	0.2	0.1
Suspended Solids	<2	mg/L	2	2
COD	22	mg/L	12%	12
BOD	5	mg/L	16%	3
Ammonia-N	0.02	mg/L	8%	0.02
Nox	18.43	mg/L	8%	0.02
TKN	<0.5	mg/L	7%	0.5
Total N	18.4	mg/L	15%	0.5
Total P	7.81	mg/L	8%	0.05

Note: These results apply to the samples supplied and not the batch from which it was drawn.

CCP Chem 06 060607.xls

**CABOOLTURE SHIRE COUNCIL
CABWATER SCIENTIFIC SERVICES
67A WEIER ROAD MORAYFIELD
TELEPHONE (07) 5420 0720**

REQUESTED BY: **Caboolture Caravan Park**
Burnett Rd. Caboolture. 4510

REPORT DATE: 13-Jul-07

SUBJECT: Caboolture Caravan Park Final Effluent
Chemical Test Report

SAMPLE DATE: 4-Jul-07
SAMPLE BY: Graeme Hill

REPORTED BY: Mark Scott

ISSUED BY: Ken Knyvett
Laboratory Coordinator Scientific Services

Authorised BY: Chris Pipe-Martin
Manager Cabwater Scientific Services

Analyte	Caboolture Caravan Park Final	Units	Uncertainty	Detection Limit
pH	7.13	pH	0.08	0-14
Conductivity	1010	μ S/cm	1%	2
Turbidity	25	NTU	8%	0.02
DO	2.98	mg/L	13%	1
Free Chlorine	0.2	mg/L	0.2	0.1
Suspended Solids	17	mg/L	2	2
COD	41	mg/L	12%	12
BOD	11	mg/L	16%	3
Ammonia-N	0.1	mg/L	8%	0.02
Nox	27.76	mg/L	8%	0.02
TKN	3.5	mg/L	7%	0.5
Total N	31.2	mg/L	15%	0.5
Total P	8.57	mg/L	8%	0.05

Note: These results apply to the samples supplied and not the batch from which it was drawn.

**CABOOLTURE SHIRE COUNCIL
CABWATER SCIENTIFIC SERVICES
67A WEIER ROAD MORAYFIELD
TELEPHONE (07) 5420 0720**

REQUESTED BY: **Caboolture Caravan Park**
Burnett Rd. Caboolture. 4510

REPORT DATE: 7-Aug-07

SUBJECT: Caboolture Caravan Park Final Effluent
Chemical Test Report

SAMPLE DATE: 1-Aug-07
SAMPLE BY: Graeme Hill

REPORTED BY: Mark Scott

ISSUED BY: Ken Knyvett
Laboratory Coordinator Scientific Services

Authorised BY: Chris Pipe-Martin
Manager Cabwater Scientific Services

Analyte	Caboolture Caravan Park Final	Units	Uncertainty	Detection Limit
pH	7.16	pH	0.08	0-14
Conductivity	1010	µS/cm	1%	2
Turbidity	21	NTU	8%	0.02
DO	3.49	mg/L	13%	1
Free Chlorine	0.09	mg/L	0.2	0.1
Suspended Solids	20	mg/L	2	2
COD	29	mg/L	12%	12
BOD	<5	mg/L	16%	3
Ammonia-N	0.09	mg/L	8%	0.02
Nox	26.42	mg/L	8%	0.02
TKN	2.6	mg/L	7%	0.5
Total N	29.0	mg/L	15%	0.5
Total P	8.24	mg/L	8%	0.05

Note: These results apply to the samples supplied and not the batch from which it was drawn.

CCP Chem 08 010807.xls

**CABOOLTURE SHIRE COUNCIL
CABWATER SCIENTIFIC SERVICES
67A WEIER ROAD MORAYFIELD
TELEPHONE (07) 5420 0720**

REQUESTED BY: **Caboolture Caravan Park**
Burnett Rd. Caboolture. 4510

REPORT DATE: 11-Sep-07

SUBJECT: Caboolture Caravan Park Final Effluent
Chemical Test Report

SAMPLE DATE: 5-Sep-07
SAMPLE BY: Graeme Hill

REPORTED BY: Mark Scott

ISSUED BY: Ken Knyvett **14.09.07**
Laboratory Coordinator Scientific Services

Authorised BY: Chris Pipe-Martin
Manager Cabwater Scientific Services

Analyte	Caboolture Caravan Park Final	Units	Uncertainty	Detection Limit
pH	6.5	pH	0.08	0-14
Conductivity	599	µS/cm	1%	2
Turbidity	9	NTU	8%	0.02
DO	2.13	mg/L	13%	1
Free Chlorine	0.02	mg/L	0.2	0.1
Suspended Solids	4	mg/L	2	2
COD	24	mg/L	12%	12
BOD	6	mg/L	16%	3
Ammonia-N	0.08	mg/L	8%	0.02
Nox	22.6	mg/L	8%	0.02
TKN	1.5	mg/L	7%	0.5
Total N	24.1	mg/L	15%	0.5
Total P	5.63	mg/L	8%	0.05

Note: These results apply to the samples supplied and not the batch from which it was drawn.

CHEMICAL TEST REPORT

Analyte	Result	Units	Test Method	Error Assessment	Detection Limit
Chlorine	NT	mg/L	TM04	± 0.05	0.1
pH	6.94	pH units	TM15B	± 0.1 / 1%	0-14
Conductivity	8790	uS/cm%	TM07A	± 10%	10
Turbidity	<1	NTU	TM21B	± 0.3 / 8%	0.02
SS	8	mg/L	TM12	± 2%	2
DO	2.02	mg/L	TM08A	± 0.1 / 9%	0.2
BOD	<5	mg/L	TM02	± 32 / 16%	3
COD	33	mg/L	TM05	± 12 / 12%	12
NOx	15.45	mg/L N	TM23F	± 8%	0.25
Ammonia N	0.55	mg/L	TM22F	± 5%	0.02
TKN	2.8	mg/L N	TM25F	± 7%	0.5
Total N	18.3	mg/L	TM25F	± 15%	0.5
TKP	8.89	mg/L P	TM16TKP	± 8%	0.15

These results apply to the sample supplied and not the batch from which it was drawn.
NT = no results available

Analysed by: SJ, TH, MS, AY Date: 08.10.07

Report by: Donna Nicholson Date: 24.10.07

Checked by: Ken Knyvett Date: 26.10.07
Laboratory coordinator

Authorised by: Chris Pipe-Martin Date:

CHEMICAL TEST REPORT

Analyte	Result	Units	Test Method	Error Assessment	Detection Limit
Chlorine	<0.1	mg/L	TM04	± 0.05	0.1
pH	7.47	pH units	TM15A	± 5%	0-14
Conductivity	991.1	uS/cm%	TM07A	± 10%	10
Turbidity	5.5	NTU	TM21B	± 8%	0.02
SS	16	mg/L	TM12	± 2%	2
DO	3.21	mg/L	TM08A	± 9%	0.2
BOD	<5	mg/L	TM02	± 16%	3
COD	35	mg/L	TM05	± 12%	12
NOx	34.48	mg/L N	TM23F	± 8%	0.25
Ammonia N	0.48	mg/L	TM22F	± 5%	0.02
TKN	2.7	mg/L N	TM25F	± 7%	0.5
Total N	37.2	mg/L	TM25F	± 15%	0.5
TKP	9.65	mg/L P	TM16TKP	± 8%	0.15

These results apply to the sample supplied and not the batch from which it was drawn.

Analysed by: MS, AY, SJ Date: 12.11.07

Report by: Donna Nicholson Date: 13.11.07

Checked by: Ken Knyvett Date: 15.11.07
Laboratory coordinator

Authorised by: Chris Pipe-Martin Date:
Manager Scientific Services

CHEMICAL TEST REPORT

Analyte	Result	Units	Test Method	Error Assessment	Detection Limit
Chlorine	0.08	mg/L	TM04	± 0.05	0.1
pH	6.79	pH units	TM15A	± 0.1	0-14
Conductivity	1173	uS/cm%	TM07A	± 10%	10
SS	13	mg/L	TM12	± 2%	2
DO	2.24	mg/L	TM08A	± 9%	0.2
BOD	<5	mg/L	TM02	± 16%	3
COD	34	mg/L	TM05	± 12%	12
NOx	34.88	mg/L N	TM23F	± 8%	0.25
Ammonia N	0.30	mg/L	TM22F	± 5%	0.02
TKN	3.0	mg/L N	TM25F	± 7%	0.5
Total N	37.9	mg/L	TM25F	± 15%	0.5
TKP	10.31	mg/L P	TM16TKP	± 8%	0.15

These results apply to the sample supplied and not the batch from which it was drawn.

Analysed by: AY, ADY, MS, SJ Date: 12.12.07

Report by: Donna Nicholson Date: 02.01.08

Checked by: Ken Knyvett Date: 05.01.08
Laboratory coordinator

Authorised by: Ken Knyvett Date: 07.01.08
Acting Manager Scientific Services

CHEMICAL TEST REPORT

Analyte	Result	Units	Test Method	Error Assessment	Detection Limit
Ammonia N	0.22	mg/L N	TM22F	± 4%	0.02
BOD	<5	mg/L	TM02	± 8%	3
COD	35	mg/L	TM05	± 7%	10
Conductivity	496.7	uS/cm	TM07	0.6%	10
DO	2.52	mg/L	TM08		1
Free chlorine	0.06	mg/L	TM04	± 0.05	0.1
NOx	18.41	mg/L N	TM23F	± 6%	2.00
pH	6.16	pH units	TM15	0.8%	0-14
SS	10	mg/L	TM12	± 5%	2
TKN	2.8	mg/L N	TM25A	± 10%	0.5
TKP	4.98	mg/L P	TM16TKP	± 7%	2.00
Total N	21.2	mg/L	TM25F	± 15%	0.5
Turbidity	3	NTU	TM04	6%	1

These results apply to the sample supplied and not the batch from which it was drawn.

Analysed by: MS, AY, SJ, DH, ADY Date: 17.01.08

Report by: Donna Nicholson Date: 21.01.08

Checked by: Mark Scott Date: 1.02.08
Senior Laboratory Technician

Authorised by: Ken Knyvett Date: 13.2.08
Acting Manager Scientific Services

sch4-Signature



**CABOOLTURE SHIRE COUNCIL
CABWATER SCIENTIFIC SERVICES
67A WEIER ROAD MORAYFIELD
TELEPHONE (07) 5420 0720**

REQUESTED BY: **Caboolture Caravan Park**
Burnett Rd. Caboolture. 4510

REPORT DATE: 16-Jan-07

SUBJECT: Caboolture Caravan Park Final Effluent
Microbiological Test Report

SAMPLE DATE: 3-Jan-07
SAMPLE BY: Graeme Hill

REPORTED BY: Mark Scott

ISSUED BY: Kerry Holmes for Ken Knyvett
Laboratory Coordinator Scientific Services

Authorised BY: Chris Pipe-Martin
Manager Cabwater Scientific Services

Analyte	Caboolture Caravan Park Final	Units	Test Method
Faecal Coliforms	1	CFU/100mL	TM32

Note: These results apply to the samples supplied and not the batch from which it was drawn.

**CABOOLTURE SHIRE COUNCIL
CABWATER SCIENTIFIC SERVICES
67A WEIER ROAD MORAYFIELD
TELEPHONE (07) 5420 0720**

REQUESTED BY: **Caboolture Caravan Park**
Burnett Rd. Caboolture. 4510

REPORT DATE: 21-Feb-07

SUBJECT: Caboolture Caravan Park Final Effluent
Microbiological Test Report

SAMPLE DATE: 7-Feb-07
SAMPLE BY: Graeme Hill

REPORTED BY: Linda Cox

ISSUED BY: Kenneth T.P. Knyvett
Laboratory Coordinator Scientific Services

Authorised BY: Chris Pipe-Martin
Manager Cabwater Scientific Services

Analyte	Caboolture Caravan Park Final	Units	Test Method
Faecal Coliforms	24	CFU/100mL	TM32

Note: These results apply to the samples supplied and not the batch from which it was drawn.

**CABOOLTURE SHIRE COUNCIL
CABWATER SCIENTIFIC SERVICES
67A WEIER ROAD MORAYFIELD
TELEPHONE (07) 5420 0720**

REQUESTED BY: **Caboolture Caravan Park**
Burnett Rd. Caboolture. 4510

REPORT DATE: 30-Apr-07

SUBJECT: Caboolture Caravan Park Final Effluent
Microbiological Test Report

SAMPLE DATE: 7-Mar-07
SAMPLE BY: Graeme Hill

REPORTED BY: Linda Cox

ISSUED BY: Ken Knyvett 1.05.07
Laboratory Coordinator Scientific Services

Authorised BY: Chris Pipe-Martin
Manager Cabwater Scientific Services

Analyte	Caboolture Caravan Park Final	Units	Test Method
Faecal Coliforms	15	CFU/100mL	TM32

Note: These results apply to the samples supplied and not the batch from which it was drawn.

**CABOOLTURE SHIRE COUNCIL
CABWATER SCIENTIFIC SERVICES
67A WEIER ROAD MORAYFIELD
TELEPHONE (07) 5420 0720**

REQUESTED BY: **Caboolture Caravan Park**
Burnett Rd. Caboolture. 4510

REPORT DATE: 30-Apr-07

SUBJECT: Caboolture Caravan Park Final Effluent
Microbiological Test Report

SAMPLE DATE: 4-Apr-07
SAMPLE BY: Graeme Hill

REPORTED BY: Linda Cox

ISSUED BY: Ken Knyvett
Laboratory Coordinator Scientific Services

Authorised BY: Chris Pipe-Martin
Manager Cabwater Scientific Services

14/05/2007

Analyte	Caboolture Caravan Park Final	Units	Test Method
Faecal Coliforms	>8000	CFU/100mL	TM32

Note: These results apply to the samples supplied and not the batch from which it was drawn.

**CABOOLTURE SHIRE COUNCIL
CABWATER SCIENTIFIC SERVICES
67A WEIER ROAD MORAYFIELD
TELEPHONE (07) 5420 0720**

REQUESTED BY: **Caboolture Caravan Park**
Burnett Rd. Caboolture. 4510

REPORT DATE:

SUBJECT: Caboolture Caravan Park Final Effluent
Microbiological Test Report

SAMPLE DATE: 6-Jun-07

SAMPLE BY: Graeme Hill

REPORTED BY: Mark Scott

ISSUED BY: Ken Knyvett **18/06/2007**
Laboratory Coordinator Scientific Services

Authorised BY: Chris Pipe-Martin
Manager Cabwater Scientific Services

Analyte	Caboolture Caravan Park Final	Units	Test Method
Faecal Coliforms	2 700	CFU/100mL	TM32

Note: These results apply to the samples supplied and not the batch from which it was drawn.

**CABOOLTURE SHIRE COUNCIL
CABWATER SCIENTIFIC SERVICES
67A WEIER ROAD MORAYFIELD
TELEPHONE (07) 5420 0720**

REQUESTED BY: **Caboolture Caravan Park**
Burnett Rd. Caboolture. 4510

REPORT DATE:

SUBJECT: Caboolture Caravan Park Final Effluent
Microbiological Test Report

SAMPLE DATE: 4-Jul-07
SAMPLE BY: Graeme Hill

REPORTED BY: Mark Scott

ISSUED BY: Ken Knyvett
Laboratory Coordinator Scientific Services

Authorised BY: Chris Pipe-Martin
Manager Cabwater Scientific Services

Analyte	Caboolture Caravan Park Final	Units	Test Method
Faecal Coliforms	780 000	CFU/100mL	TM32

Note: These results apply to the samples supplied and not the batch from which it was drawn.

**CABOOLTURE SHIRE COUNCIL
CABWATER SCIENTIFIC SERVICES
67A WEIER ROAD MORAYFIELD
TELEPHONE (07) 5420 0720**

REQUESTED BY: **Caboolture Caravan Park**
Burnett Rd. Caboolture. 4510

REPORT DATE: 7-Aug-07

SUBJECT: Caboolture Caravan Park Final Effluent
Microbiological Test Report

SAMPLE DATE: 1-Aug-07

SAMPLE BY: Graeme Hill

REPORTED BY: Mark Scott

ISSUED BY: Ken Knyvett
Laboratory Coordinator Scientific Services

Authorised BY: Chris Pipe-Martin
Manager Cabwater Scientific Services

Analyte	Caboolture Caravan Park Final	Units	Test Method
Faecal Coliforms	>8 000	CFU/100mL	TM32

Note: These results apply to the samples supplied and not the batch from which it was drawn.

**CABOOLTURE SHIRE COUNCIL
CABWATER SCIENTIFIC SERVICES
67A WEIER ROAD MORAYFIELD
TELEPHONE (07) 5420 0720**

REQUESTED BY: **Caboolture Caravan Park**
Burnett Rd. Caboolture. 4510

REPORT DATE: 10-Sep-07

SUBJECT: Caboolture Caravan Park Final Effluent
Microbiological Test Report

SAMPLE DATE: 5-Sep-07
SAMPLE BY: Graeme Hill

REPORTED BY: Mark Scott

ISSUED BY: Ken Knyvett **14.09.07**
Laboratory Coordinator Scientific Services

Authorised BY: Chris Pipe-Martin
Manager Cabwater Scientific Services

Analyte	Caboolture Caravan Park Final	Units	Test Method
Faecal Coliforms	4 500	CFU/100mL	TM32

Note: These results apply to the samples supplied and not the batch from which it was drawn.

Form 13.2/F3_WQBACT
Caboolture Shire Council
CabWater Scientific Services
67a Weier Road, Morayfield

Request for Analysis

REQUEST No. 653/07

Date sampled: 03.10.07

Date received: 03.10.07

Requested by: Caboolture Caravan Park
Burnett Rd. Caboolture. 4510

Sampled by: Peter Lees

Accepted by: Peter Lees

Sample description: Effluent

Analyses required: Faecal coliforms

MICROBIOLOGICAL TEST REPORT

Analyte	Result	Units	Test method
Faecal coliforms	1100	cfu/100ml	TM32

This test result applies to the sample supplied and not the batch from which it was drawn.

Analysed by: Donna Nicholson

Date: 04.10.07

Report by: Donna Nicholson

Date: 05.10.07

Checked by: Ken Knyvett
Laboratory Coordinator

Date: 26.10.07

Authorised by: Chris Pipe-Martin
Manager Scientific Services

Date:

Form 13.2/F3_WQBACT
Caboolture Shire Council
CabWater Scientific Services
67a Weier Road, Morayfield

Request for Analysis

REQUEST No. 731/07

Date sampled: 07.11.07

Date received: 07.11.07

Requested by: Caboolture Caravan Park
Burnett Road
Caboolture 4510

Sampled by: Graeme Hill

Accepted by: Graeme Hill

Sample description: Effluent

Analyses required: Faecal coliforms

MICROBIOLOGICAL TEST REPORT

Analyte	Result	Units	Test method
Faecal coliforms	2400	cfu/100ml	TM32

This test result applies to the sample supplied and not the batch from which it was drawn.

Analysed by: Donna Nicholson Date: 08.11.07

Report by: Donna Nicholson Date: 09.11.07

Checked by: Ken Knyvett Date: 15.11.07
Laboratory Coordinator

Authorised by: Chris Pipe-Martin Date:
Manager Scientific Services

Form 13.2/F3_WQBACT
Caboolture Shire Council
CabWater Scientific Services
67a Weier Road, Morayfield

Request for Analysis

REQUEST No. 820/07

Date sampled: 05.12.07
Date received: 05.12.07

Requested by: Caboolture Caravan Park
Burnett Road
Caboolture 4510

Sampled by: Graeme Hill

Accepted by: Donna Nicholson

Sample description: Effluent

Analyses required: Faecal coliforms

MICROBIOLOGICAL TEST REPORT

Analyte	Result	Units	Test method
Faecal coliforms	17	cfu/100ml	TM32

This test result applies to the sample supplied and not the batch from which it was drawn.

Analysed by: Donna Nicholson Date: 06.12.07

Report by: Donna Nicholson Date: 18.12.07

Checked by: Ken Knyvett Date: 05.01.08
Laboratory Coordinator

Authorised by: Ken Knyvett Date: 07.01.08
Acting Manager Scientific Services

File Reference:MCY507

File note of:

☐

Meeting

☐

Discussion

☐

Site Visit

☐

Inspection

☒

Phone

☐

In Office

☐

Name Location

Date:

13/03/08

Time:10:00am

Reporting Officer:Perer Morrall

Between: Richard Reynolds

Of Caboulture
caravan Park

Phone:5495 1041

Mobile:

Postal Address Lower King St Caboulture

Email:

Other Client/s:

Of

Subject: STP Issues at Caboulture Caravan Park

Spoke to RR and he committed to installing flow gauge and sample point to effluent outlet by end March 08. The sample results for Feb and March 08 for EC's are in compliance.

The planned maintenance and cleaning of the plant will also take place at this time. PM has requested that Caboulture Council send the Jan - march test results to EPA.

Action: call end March

sch4p4(6) Personal information

sch4p4(6) Personal information

Officer's Name/ Signature

Is Written confirmation required? ☐ Yes ☐ No

Page

Of

(number each page please)

File Reference: MCY507

File note of: ☐ Meeting ☐ Discussion ☐ Site Visit ☐ Inspection

☒ Phone ☐ In Office ☐ Name Location

Date: 25/02/2008 Time: 14:25 Reporting Officer: Peter Morrall

Between: Richard Reynolds Of Caboulture Caravan park

Phone: 54951041 Mobile: Fax:

Postal Address

Email:

Other Client/s: Of

Subject: On Site STP Issues

Detail: PM spoke to RR regarding the issue of high results for FC's from onsite STP. RR had gained advice on his chlorination process and managed to bring February's results back to compliance (7 FC's CFU/100ml). The plumber is organising a flow meter to be installed and the whole system is being cleaned and serviced at some stage (could not give date).

PM will call week of 10 March 08 and if no progress will look at what further we will take.

Action: call week of 10 March 08

Officer's Name/ Signature

Is Written confirmation required? ☐ Yes ☒ No

Page 1 Of 1
(number each page please)

File Reference:

File note of: ☒ Meeting ☐ Discussion ☒ Site Visit ☐ Inspection

☐ Phone ☐ In Office ☐ Name Location

Date: 04/02/2008 Time: 1300 Reporting Officer: Peter Morrall/Melissa Dagan

Between: Richard reynolds Of Cab Caravan park

Phone: 54951041 Mobile: Fax:

Postal Address Burnett Road Caboolture

Email:

Other Client/s: Of

Subject: On SiteSTP Non Compliance

Detail: Met with RR to discuss on going non compliance with DA SR166 in regards to no means of gauging discharge from on site STP, WQ results out of limits for F.C.'s.

RR has recently taken over as manager of site and was unaware of issue relating to non compliance. Brought his attention to H22 of the DA stating they must notify EPA of any exceedance in there WQ results. They have been continually in non compliance for FC results (as high as 780,000 CFU) but stated they did not receive results from Cab Council in a timely manner and were unaware of this. The other issue was that there is no flow gauge at the outlet of the STP with is in contravention of H14 of the licence, this is an ongoing issue. We also observed there was no warning for high water/overflow from the holding tank which received all sewage from the site. RR said he had spoken to an electrician to organise the fitting of one.

PM and MD inspected the plant and gave RR the following issues to address immediately.

- Install a flow gauge at outlet
- Talk to Cab Council to receive results as they become available
- Engage a technical expert to resolve issues with effluent quality
- Address issue of no warning for overflow from storage tank

PM will email these issues to RR on 05/02/08 as discussed. RR has also stated he will produce an EM Plan of the works. PM will look at the next test results and contact RR to discuss.

116-sites → 150 People
Result for January = 2600 FC. (CFU/100ml)

Form 13.2/F3_WQBACT
Caboolture Shire Council
CabWater Scientific Services
67a Weier Road, Morayfield

Request for Analysis

REQUEST No. 037/08

Date sampled: 09.01.08

Date received: 09.01.08

Requested by: Caboolture Caravan Park
Burnett Road
Caboolture 4510

Sampled by: Graeme Hill

Accepted by: Donna Nicholson

Sample description: Effluent

Analyses required: Faecal coliforms

MICROBIOLOGICAL TEST REPORT

Analyte	Result	Units	Test method
Faecal coliforms	6300	cfu/100ml	TM32

This test result applies to the sample supplied and not the batch from which it was drawn.

Analysed by: Donna Nicholson Date: 10.01.08

Report by: Donna Nicholson Date: 11.01.08

Checked by: Mark Scott Date: 24.01.08
Senior Laboratory Technician

Authorised by: Ken Knyvett Date:
Acting Manager Scientific Services

Form 13.2/F3

Caboolture Shire Council
CabWater Scientific Services
67a Weier Rd Morayfield

Request for Analysis

REQUEST No. 037/08

Date sampled: 09.01.08
Date received: 09.01.08

Requested by: Caboolture Caravan Park
Burnett Road
Caboolture 4510

Sampled by: Graeme Hill

Accepted by: Donna Nicholson

Sample description: Effluent

Analyses required: Free chlorine, pH, conductivity, turbidity, SS, DO, BOD, COD, NOx, ammonia, TN, TKN and TKP.

RTI DL RELEASE - EHP

CHEMICAL TEST REPORT

Analyte	Result	Units	Test Method	Error Assessment	Detection Limit
Ammonia N	0.22	mg/L N	TM22F	± 4%	0.02
BOD	<5	mg/L	TM02	± 8%	3
COD	35	mg/L	TM05	± 7%	10
Conductivity	496.7	uS/cm	TM07	± 0.6%	10
DO	2.52	mg/L	TM08		1
Free chlorine	0.06	mg/L	TM04	± 0.05	0.1
NOx	18.41	mg/L N	TM23F	± 6%	2.00
pH	6.16	pH units	TM15	0.8%	0-14
SS	10	mg/L	TM12	± 5%	2
TKN	2.8	mg/L N	TM25A	± 10%	0.5
TKP	4.98	mg/L P	TM46TKP	± 7%	2.00
Total N	21.2	mg/L	TM25F	± 15%	0.5
Turbidity	3	NTU	TM04	6%	1

These results apply to the sample supplied and not the batch from which it was drawn.

Analysed by: MS, AY, SJ, DH, ADY Date: 17.01.08

Report by: Donna Nicholson Date: 21.01.08

Checked by: Mark Scott Date: 1.02.08
Senior Laboratory Technician

Authorised by: Ken Knyvett Date:
Acting Manager Scientific Services

Caboolture Shire Council
CabWater Scientific Services
67a Weier Rd Morayfield

Request for Analysis

REQUEST No. 126/08

Date sampled: 06.02.08

Date received: 06.02.08

Requested by:

Caboolture Caravan Park
26 Burnett Road
Caboolture 4510
Ph. 54951041

Sampled by:

Graeme Hill

Accepted by:

Donna Nicholson

Sample description:

Effluent

Analyses required:

Free chlorine, pH, conductivity, turbidity, SS, DO, BOD, COD, NOx, ammonia, TN,
TKN, TKP

RTI DL RELEASE - EHP

CHEMICAL TEST REPORT

Analyte	Result	Limits	Units	Test method	Error	Detection Limit
Ammonia N	0.24		mg/L	TM22F	± 8%	0.02
BOD	<5	4.0 (maximum)	mg/L	TM02	± 9%	3
Chlorine	<0.05	0.7 (maximum)	mg/L	TM04	± 0.05	0.1
COD	44		mg/L	TM05	± 12%	12
Conductivity	520.4		uS/cm	TM07A	± 10%	10
DO	2.78	2 (minimum)	mg/L	TM08A	± 2%	0.2
NOx	15.93		mg/L	TM23F	± 8%	0.25
pH	6.99	6.5-8.5	pH units	TM15A	± 5%	0-14
SS	7	60 (maximum)	mg/L	TM12	± 2%	2
TKN	2.1		mg/L	TM25F	± 7%	0.5
TKP	2.74		mg/L	TM16TKP	± 8%	0.05
Total N	18.0		mg/L	TM25F	± 15%	0.5
Turbidity	1.9		NTU	TM21B	± 8%	0.02

BOLD = exceeds max limits

These results apply to the sample supplied and not the batch from which it was drawn.

Analysed by: DN, MS, SJ Date: 14.02.08

Report by: Donna Nicholson Date: 29.02.08

Checked by: Mark Scott Date: 4.03.08
Senior Laboratory Technician

Authorised by: Ken Knyvett Date:
Acting Manager Scientific Services

Caboolture Shire Council
CabWater Scientific Services
67a Weier Rd Morayfield

Request for Analysis

REQUEST No. 126/08

Date sampled: 06.02.08
Date received: 06.02.08

Requested by:

Caboolture Caravan Park

26 Burnett Road
Caboolture 4510
Ph. 54951041
Graeme Hill

Sampled by:

Accepted by:

Donna Nicholson

Sample description:

Effluent

Analyses required:

Faecal Coilforms

RTI DL RELEASE - EHP

CHEMICAL TEST REPORT

Analyte	Result	Max limits	Units	Test method	Error Assessment	Detection Limit
<i>Faecal coliforms</i>	7	1000	cfu/100ml	TM32	na	na

BOLD = exceeds max limits

These results apply to the sample supplied and not the batch from which it was drawn.

Results in **bold** indicate the test control has failed and the result is to be used as a guide only.

Analysed by: Dawn Hadfield Date: 6.02.08

Report by: Donna Nicholson Date: 29.02.08

Checked by: Mark Scott Date: 4.03.08
Senior Laboratory Technician

Authorised by: Ken Knyvett Date:
Acting Manager Scientific Services

RTI DL RELEASE - EHP

REGISTRATION DETAILS

JOB DESCRIPTION: Caboolture Caravan Park
JOB REFERENCE: MBW100289
REGISTRATION DATE: 3/02/2010
SAMPLE DATE: 3/02/2010

Final Report

REPORT NUMBER: MBW100289

00

ISSUE DATE: 12/02/10



NATA Accredited Laboratory
Number 14414

NATA ENDORSED TEST REPORT

This document shall not be reproduced except in full. This laboratory is accredited by the National Association of Testing Authorities, Australia. The tests reported herein have been performed in accordance with its scope of accreditation.

CUSTOMER DETAILS

CUSTOMER NAME: Caboolture Caravan Park
CUSTOMER CONTACT:
ADDRESS: 26 Burnett Road
Caboolture QLD 4510

Section 78B(2) RTI Act

R. Sheedy
Lab. Manager

Section 78B(2) RTI Act

M. Scott
Lab. Technician

TEST REPORT

Analyte		Method	LOR	Units	Caboolture Caravan Park
Free Chlorine	C	TM04	0.1	mg/L	<0.1
pH	C	TM15A	1	pH	7.21
Conductivity	C	TM07A	1	uS/cm	559
Dissolved Oxygen	C	TM08A	1	mg/L	2.81
Turbidity	C	TM21A	1	NTU	60
BOD	C	TM02	3	mg/L	30
COD	-	TM43	10	mg/L	114
Suspended Solids	C	TM12	2	mg/L	38

X - not a great result but approved by D.A.

Analyte		Method	LOR	Units	Caboolture Caravan Park
Ammonia N	C	TM22F	0.02	mg/L	20.8
NOx	C	TM23F	0.02	mg/L	1.19
TKN	C	TM25F	0.5	mg/L	29.9
TKP	C	TM16TKP	0.02	mg/L	4.63
Organic N	C	TM25F	0.5	mg/L	9.1
Total Nitrogen	C	TM25F	0.5	mg/L	31.1

Analyte		Method	LOR	Units	Caboolture Caravan Park
Faecal Coliforms	M	MM002	1	cfu/100mL	70

Use BOD as a guide only, sample tested outside holding time.

These results apply to the sample supplied and not the batch from which it was drawn.

C indicates that NATA Chemical Accreditation is held for the test.

M indicates that NATA Microbiological Accreditation is held for the test.

- indicates NATA accreditation is not held for the test.

E indicates the test was performed by an external laboratory.

LOR: Limit of Reporting; NT: Not tested; ND: Not detected; NS: No sample; NA: Not assigned, Test not requested.

Bold: Result is outside acceptance limits.

The laboratory welcomes your feedback on our performance.

Please send your comments to CabMB.Laboratory.staff@moretonbay.qld.gov.au

RTI DL RELEASE - EHP

REGISTRATION DETAILS

JOB DESCRIPTION: Caboolture Caravan Park
JOB REFERENCE: MBW092924
REGISTRATION DATE: 2/12/2009
SAMPLE DATE: 2/12/2009

Final Report

REPORT NUMBER: MBW092924

00

ISSUE DATE: 15/12/09



NATA Accredited Laboratory
Number 14414

NATA ENDORSED TEST REPORT

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CUSTOMER DETAILS

CUSTOMER NAME: Caboolture Caravan Park
CUSTOMER CONTACT:
ADDRESS: 26 Burnett Road
Caboolture QLD 4510

Section 78B(2) RTI Act

D. Hadfield
Microbiologist

Section 78B(2) RTI Act

K. Holmes
Assistant Chemist

TEST REPORT

Analyte		Method	LOR	Units	Caboolture Caravan Park
Free Chlorine	C	TM04	0.1	mg/L	<0.1
pH	C	TM15A	1	pHU	7.77
Conductivity	C	TM07A	1	uS/cm	979
Dissolved Oxygen	C	TM08A	1	mg/L	6.48
Turbidity	C	TM21A	1	NTU	6
BOD	C	TM02	3	mg/L	3
COD	-	TM13	10	mg/L	36
Suspended Solids	C	TM12	2	mg/L	7

unsure why this result is stated as a 'guide only'

Report No: MBW092924 - 00

Analyte		Method	LOR	Units	Caboolture Caravan Park
Ammonia N	C	TM22F	0.02	mg/L	<0.5
NOx	C	TM23F	0.02	mg/L	22.9
TKN	C	TM25F	0.5	mg/L	2.9
TKP	C	TM16TKP	0.02	mg/L	5.40
Organic N	C	TM25F	0.5	mg/L	2.9
Total Nitrogen	C	TM25F	0.5	mg/L	25.8

Analyte		Method	LOR	Units	Caboolture Caravan Park
Faecal Coliforms	M	MM002	1	cfu/100mL	3,300

- exceeded limit by 2,300.
no notification of this
found on file.

* Use BOD results as a Guide Only.

These results apply to the sample supplied and not the batch from which it was drawn.

C indicates that NATA Chemical Accreditation is held for the test.

M indicates that NATA Microbiological Accreditation is held for the test.

- indicates NATA accreditation is not held for the test.

E indicates the test was performed by an external laboratory.

LOR: Limit of Reporting; NT: Not tested; ND: Not detected; NS: No sample; NA: Not assigned, Test not requested.

Bold: Result is outside acceptance limits.

The laboratory welcomes your feedback on our performance.

Please send your comments to CabMB.Laboratory.staff@moretonbay.qld.gov.au

RTI DL RELEASE - EHP

REGISTRATION DETAILS

JOB DESCRIPTION: Caboolture Caravan Park
JOB REFERENCE: MBW092684
REGISTRATION DATE: 4/11/2009
SAMPLE DATE: 4/11/2009

Final Report

REPORT NUMBER: MBW092684
ISSUE DATE: 17/11/09

00



NATA Accredited Laboratory
Number 14414

NATA ENDORSED TEST REPORT

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CUSTOMER DETAILS

CUSTOMER NAME: Caboolture Caravan Park
CUSTOMER CONTACT:
ADDRESS: 26 Burnett Road
Caboolture QLD 4510

Section 78B(2) RTI Act

R. Sheedy
Lab. Manager

K. Holmes
Assistant Chemist

TEST REPORT

Analyte		Method	LOR	Units	Caboolture Caravan Park
Free Chlorine	C	TM04	0.1	mg/L	0.6
pH	C	TM15A	1	pH	7.21
Conductivity	C	TM07A	1	uS/cm	901
Turbidity	C	TM21A	1	NTU	6
BOD	C	TM02	3	mg/L	<3
COD	-	TM43	10	mg/L	20
Suspended Solids	C	TM12	2	mg/L	<2

did not meet minimum limit level
no notification of this on file.

Analyte		Method	LOR	Units	Caboolture Caravan Park
Ammonia N	C	TM22F	0.02	mg/L	<0.02
NOx	C	TM23F	0.02	mg/L	44.0
TKN	C	TM25F	0.5	mg/L	2.4
TKP	C	TM16TKP	0.02	mg/L	6.30
Organic N	C	TM25F	0.5	mg/L	2.4
Total Nitrogen	C	TM25F	0.5	mg/L	46.4

Analyte		Method	LOR	Units	Caboolture Caravan Park
Faecal Coliforms	M	MM002	1	cfu/100mL	7

- unsure of this result.

Dissolved Oxygen not tested due to instrument failure

These results apply to the sample supplied and not the batch from which it was drawn.

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RTI DL RELEASE - EHP

REGISTRATION DETAILS

JOB DESCRIPTION: Caboolture Caravan Park
JOB REFERENCE: MBW092461
REGISTRATION DATE: 7/10/2009
SAMPLE DATE: 7/10/2009

Final Report

REPORT NUMBER: MBW092461 00
ISSUE DATE: 2/11/09



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Number 14414

NATA ENDORSED TEST REPORT

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CUSTOMER DETAILS

CUSTOMER NAME: Caboolture Caravan Park
CUSTOMER CONTACT:
ADDRESS: 26 Burnett Road
Caboolture QLD 4510

Section 78B(2) RTI Act

R. Sheedy
Lab. Manager

K. Holmes
Assistant Chemist

TEST REPORT

Analyte		Method	LOR	Units	Caboolture Caravan Park
Free Chlorine	C	TM04	0.1	mg/L	<0.1
pH	C	TM15A	1	pHU	6.87
Conductivity	C	TM07A	1	uS/cm	1.026
Dissolved Oxygen	C	TM08A	1	mg/L	4.10
Turbidity	C	TM21A	1	NTU	2
BOD	C	TM02	3	mg/L	<3
COD	-	TM43	10	mg/L	30
Suspended Solids	C	TM12	2	mg/L	<2

did not meet minimum limit level
no notification of this on file.

Analyte		Method	LOR	Units	Caboolture Caravan Park
Ammonia N	C	TM22F	0.02	mg/L	<0.5
NOx	C	TM23F	0.02	mg/L	39.8
TKN	C	TM25F	0.5	mg/L	3.7
TKP	C	TM16TKP	0.02	mg/L	11.30
Organic N	C	TM25F	0.5	mg/L	3.7
Total Nitrogen	C	TM25F	0.5	mg/L	43.5

Analyte		Method	LOR	Units	Caboolture Caravan Park
Faecal Coliforms	M	MM002	1	cfu/100mL	15

These results apply to the sample supplied and not the batch from which it was drawn.

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RTI DL RELEASE - EHP

REGISTRATION DETAILS

JOB DESCRIPTION: Caboolture Caravan Park
JOB REFERENCE: MBW-09/2177
REGISTRATION DATE: 2/09/2009
SAMPLE DATE: 2/09/2009

CUSTOMER DETAILS

CUSTOMER NAME: Caboolture Caravan Park
CUSTOMER CONTACT:
ADDRESS: 26 Burnett Road
Caboolture QLD 4510

Section 78B(2) RTI Act
R. Sheedy
Lab. Manager

Final Report

REPORT NUMBER: MBW-09/2177
ISSUE DATE: 9/09/09

01



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Number 14414

NATA ENDORSED TEST REPORT

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M. Scott
Lab. Technician

TEST REPORT

Analyte		Method	LOR	Units	Caboolture Caravan Park
Free Chlorine	C	TM04	0.1	mg/L	<0.1
pH	C	TM15A	1	pHU	8.26
Conductivity	C	TM07A	1	uS/cm	988
Dissolved Oxygen	C	TM08A	1	mg/L	5.47
Turbidity	C	TM21A	1	NTU	48
BOD	C	TM02	3	mg/L	43
COD	-	TM43	10	mg/L	176
Suspended Solids	C	TM12	2	mg/L	65

just exceeded limit - no notification
just exceeded limit - no notification

Analyte		Method	LOR	Units	Caboolture Caravan Park
Ammonia N	C	TM22F	0.02	mg/L	34
NOx	C	TM23F	0.02	mg/L	17.2
TKN	C	TM25F	0.5	mg/L	43.8
Organic N	C	TM25F	0.5	mg/L	9.3
Total Nitrogen	C	TM25F	0.5	mg/L	61.0

Analyte		Method	LOR	Units	Caboolture Caravan Park
Faecal Coliforms	M	MM002	1	cfu/100mL	>8,000

- exceeded limit by possibly over 7000

These results apply to the sample supplied and not the batch from which it was drawn.

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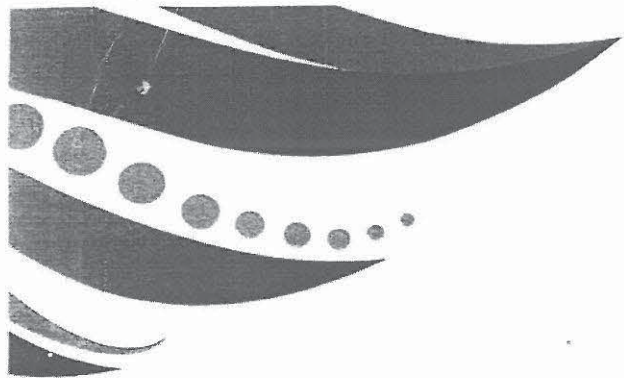
LOR: Limit of Reporting; NT: Not tested; ND: Not detected; NS: No sample; NA: Not assigned. Test not requested.

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RTI DL RELEASE - EHP



Mr Murray Woolnough
C/- Caboolture Caravan Park
26 Burnett Lane
CABOOLTURE QLD 4510

Phone: 5420 0749
Our Ref: 61-6170
Your Ref: -
Date: 11 May 2009

Dear Murray

PROPOSAL TO CONNECT CARAVAN PARK TO RETICULATED SEWERAGE

I write further to our meeting on 25 March 2009 to discuss the possibility of your caravan park being connected to council's sewerage system.

Asoka Kiriella has undertaken a budget estimate to construct a standard council-design pumping station and rising main to connect to the existing 800 diameter rising main. His estimate is for \$476,000 broken down as per the enclosed detail. The estimate is based on standard council designs and using typical rates from subdivision development. It is possible in the current economic environment that private contractors could be more competitive than Asoka has assumed. The cost of the rising main would be substantially less if you could obtain agreement from the adjoining landowner to build it directly across the fields. You mentioned also the possibility of building a new high pressure, but shallow pumping station, next to the existing pumping station or near your existing treatment plant. The existing pumps would be used to pump into the new station, which would then provide the higher pressures needed to access the council mains. This option would also be much cheaper to build than the new pumping station, but it would be more costly to operate and maintain in the long term, and council would have to be satisfied that the existing station did not suffer excessive ground water infiltration.

If your caravan park were a new development it would be assessed for headworks contributions as follows: 0.25 EP per staff member, 1.0 EP for each studio cabin (no separate bedrooms), 1.4 EP per tent site or single bedroom cabin, 1.8 EP for each 2- bedroom cabin. The current contribution rate is \$2,154 per EP (Equivalent Person). It would be possible to mount a good argument for a reduction in these contributions in your particular case. Such an argument might take into account the state of the Caboolture River, and the fact that you would be using very little of Council's reticulation system.

Once the system became operational, it would attract a standard annual sewerage charge for each toilet pedestal (and urinal) in your site. The current annual charge is \$456 for each.

Customer Service Contacts

PO Box 159 Caboolture QLD 4510 | T 3205 0555 | F 3205 0599 | E mbrc@moretonbay.qld.gov.au | W www.moretonbay.qld.gov.au

-2-

I hope this information is useful to you in assessing the risks, pros and cons of continuing to provide your own treatment at the site compared with connecting to sewer. Please contact me on 5420 0749 or email Martin.Dore@moretonbay.qld.gov.au, if you would like more information or further discussion.

Yours sincerely

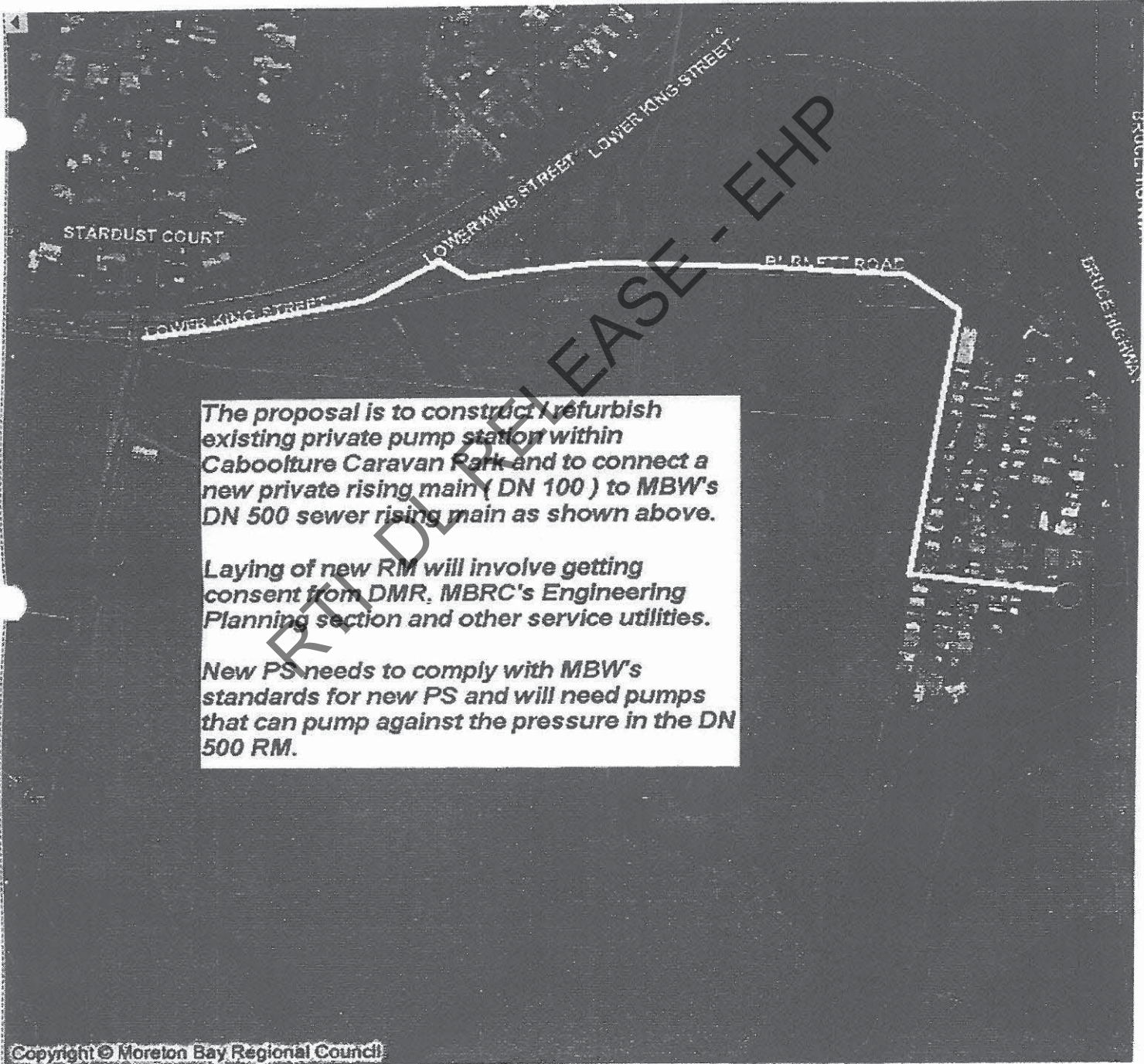
Section 78B(2) RTI Act

MARTIN DORE'
Deputy Director
MORETON BAY WATER

RTI DL RELEASE - EHP

Note : This is an estimate done using unit rates. No soil investigations have been done to ascertain ground conditions. The estimate is indicative and should not be used as a basis for any commercial decision that Caboolture Caravan Park makes.

Description	Unit	Unit Rate	Quantity	Total
DN 100 sewer rising main	lm	200	780	\$156,000
Sewer Pump Station (new)	No	320000	1	\$320,000
TOTAL				\$476,000



REGISTRATION DETAILS

JOB DESCRIPTION: Caboolture Caravan Park
JOB REFERENCE: MBW101087
REGISTRATION DATE: 5/05/2010
SAMPLE DATE: 5/05/2010

Final Report

REPORT NUMBER: MBW101087 - 01
ISSUE DATE: 19/05/10



NATA Accredited Laboratory
Number 14414

NATA ENDORSED TEST REPORT

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The tests reported herein have been performed in accordance with its scope of accreditation.

CUSTOMER DETAILS

CUSTOMER NAME: Caboolture Caravan Park
CUSTOMER CONTACT:
ADDRESS: 26 Burnett Road
Caboolture QLD 4510

Section 78B(2) RTI Act
D. Hadfield
Microbiologist

K. Holmes
Assistant Chemist

TEST REPORT

Analyte		Method	LOR	Units	Caboolture Caravan Park
Free Chlorine	C	TM04	0.1	mg/L	0.1
pH	-	TM15A	1	pHU	6.92
Conductivity	C	TM07A	1	uS/cm	544
Dissolved Oxygen	C	TM08A	1	mg/L	<1.00
Turbidity	-	TM21A	1	NTU	206
BOD	C	TM02	3	mg/L	78 *
COD	C	TM43	10	mg/L	170
Suspended Solids	C	TM12	2	mg/L	71

Analyte		Method	LOR	Units	Caboolture Caravan Park
Ammonia N	C	TM22F	0.02	mg/L	0.08
NOx	C	TM23F	0.02	mg/L	6.87
TKN	C	TM25F	0.5	mg/L	11.7
TKP	C	TM16TKP	0.02	mg/L	6.21
Organic N	C	TM25F	0.5	mg/L	11.6
Total Nitrogen	C	TM25F	0.5	mg/L	18.6

Analyte		Method	LOR	Units	Caboolture Caravan Park
Faecal Coliforms	M	MM002	1	cfu/100mL	>10,000

* Use BOD results as a Guide Only.

These results apply to the sample supplied and not the batch from which it was drawn.

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RTI DL RELEASE - EHP

Moreton Bay Water, Scientific Services
67 Weier Rd, Morayfield
P.O. Box 159 Caboolture Qld 4510
Phone: (07) 5420 0720 Fax: (07) 5420 0716

**REGISTRATION DETAILS**

JOB DESCRIPTION: Caboolture Caravan Park
JOB REFERENCE: MBW100862
REGISTRATION DATE: 7/04/2010
SAMPLE DATE: 7/04/2010

Final Report

REPORT NUMBER: MBW100862 00
ISSUE DATE: 15/04/10

**NATA ENDORSED TEST REPORT**

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NATA Accredited Laboratory
Number 14414

CUSTOMER DETAILS

CUSTOMER NAME: Caboolture Caravan Park
CUSTOMER CONTACT:
ADDRESS: 26 Burnett Road
Caboolture QLD 4510

TEST REPORT

Analyte		Method	LOR	Units	Caboolture Caravan Park
Free Chlorine	C	TM04	0.1	mg/L	<0.1
pH	-	TM15A	1	pH	7.30
Conductivity	C	TM07A	1	uS/cm	713
Dissolved Oxygen	C	TM08A	1	mg/L	<1.00
Turbidity	-	TM21A	1	NTU	156
BOD	C	TM02	3	mg/L	33
COD	C	TM03	10	mg/L	202
Suspended Solids	C	TM12	2	mg/L	77

Report No: MBW100862 - 00

Moreton Bay Water, Scientific Services

Analyte		Method	LOR	Units	Caboolture Caravan Park
Ammonia N	C	TM22F	0.02	mg/L	34.6
NOx	C	TM23F	0.02	mg/L	1.46
TKN	C	TM25F	0.5	mg/L	61.4
TKP	C	TM16TKP	0.02	mg/L	8.60
Organic N	C	TM25F	0.5	mg/L	16.8
Total Nitrogen	C	TM25F	0.5	mg/L	52.9

Analyte		Method	LOR	Units	Caboolture Caravan Park
Faecal Coliforms	M	MM002	1	cfu/100mL	10

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RTI DL RELEASE - EHP

REGISTRATION DETAILS

JOB DESCRIPTION: Caboolture Caravan Park
JOB REFERENCE: MBW100527
REGISTRATION DATE: 3/03/2010
SAMPLE DATE: 3/03/2010

Final Report

REPORT NUMBER: MBW100527 - 01
ISSUE DATE: 31/05/10



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Number 14414

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CUSTOMER DETAILS

CUSTOMER NAME: Caboolture Caravan Park
CUSTOMER CONTACT:
ADDRESS: 26 Burnett Road
Caboolture QLD 4510

Section 78B(2) RTI Act

R. Sheedy
Lab. Manager

Section 78B(2) RTI Act

K. Holmes
Assistant Chemist

TEST REPORT

Analyte		Method	LOR	Units	Caboolture Caravan Park
Free Chlorine	C	TM04	0.1	mg/L	<0.1
pH	-	TM15A	1	pHU	7.32
Conductivity	C	TM07A	1	uS/cm	260
Dissolved Oxygen	C	TM08A	1	mg/L	4.10
Turbidity	-	TM21A	1	NTU	26
BOD	C	TM02	3	mg/L	4
COD	C	TM43	10	mg/L	54
Suspended Solids	C	TM12	2	mg/L	21

Analyte		Method	LOR	Units	Caboolture Caravan Park
Ammonia N	C	TM22F	0.02	mg/L	4.4
NOx	C	TM23F	0.02	mg/L	1.01
TKN	C	TM25F	0.5	mg/L	9.3
TKP	C	TM16TKP	0.02	mg/L	1.52
Organic N	C	TM25F	0.5	mg/L	4.9
Total Nitrogen	C	TM25F	0.5	mg/L	10.3

Analyte		Method	LOR	Units	Caboolture Caravan Park
Faecal Coliforms	M	MM002	1	cfu/100mL	100

These results apply to the sample supplied and not the batch from which it was drawn.

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RTI DL RELEASE - EHP

Moreton Bay Water, Scientific Services
67 Weier Rd, Morayfield
P.O. Box 159 Caboolture Qld 4510
Phone: (07) 5420 0720 Fax: (07) 5420 0716



REGISTRATION DETAILS

JOB DESCRIPTION: Caboolture Caravan Park
JOB REFERENCE: MBW100030
REGISTRATION DATE: 6/01/2010
SAMPLE DATE: 6/01/2010

Final Report

REPORT NUMBER: MBW100030

01

ISSUE DATE: 31/05/10



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Number 14414

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CUSTOMER DETAILS

CUSTOMER NAME: Caboolture Caravan Park
CUSTOMER CONTACT:
ADDRESS: 26 Burnett Road
Caboolture QLD 4510

Section 78B(2) RTI Act

D. Hadfield
Microbiologist

M. Scott
Lab. Technician

TEST REPORT

Analyte		Method	LOR	Units	Caboolture Caravan Park
Free Chlorine	C	TM04	0.1	mg/L	0.1
pH	-	TM15A	1	pH	7.64
Conductivity	C	TM07A	1	uS/cm	548
Dissolved Oxygen	C	TM08A	1	mg/L	5.68
Turbidity	-	TM21A	1	NTU	72
BOD	C	TM02	3	mg/L	12
COD	C	TM43	10	mg/L	24
Suspended Solids	C	TM12	2	mg/L	28

Analyte		Method	LOR	Units	Caboolture Caravan Park
Ammonia N	C	TM22F	0.02	mg/L	20.8
NOx	C	TM23F	0.02	mg/L	1.19
TKN	C	TM25F	0.5	mg/L	29.9
TKP	C	TM16TKP	0.02	mg/L	4.63
Organic N	C	TM25F	0.5	mg/L	9.1
Total Nitrogen	C	TM25F	0.5	mg/L	31.1

Analyte		Method	LOR	Units	Caboolture Caravan Park
Faecal Coliforms	M	MM002	1	cfu/100mL	70

Use BOD as a guide only, sample tested outside holding time.

These results apply to the sample supplied and not the batch from which it was drawn.

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- indicates NATA accreditation is not held for the test.

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RTI DL RELEASE - EHP

REGISTRATION DETAILS

JOB DESCRIPTION: Caboolture Caravan Park
JOB REFERENCE: MBW101414
REGISTRATION DATE: 3/06/2010
SAMPLE DATE: 3/06/2010

Final Report

REPORT NUMBER: MBW101414 - 01
ISSUE DATE: 9/06/10



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Number 14414

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CUSTOMER DETAILS

CUSTOMER NAME: Caboolture Caravan Park
CUSTOMER CONTACT: Mr Murray Woolnough
ADDRESS: 26 Burnett Road
Caboolture QLD 4510

Section 78B(2) RTI Act

R. Sheedy
Lab. Manager

TEST REPORT

Analyte		Method	LOR	Units	Caboolture Caravan Park 1	Caboolture Caravan Park 2	Caboolture Caravan Park 3	Caboolture Caravan Park 4	Caboolture Caravan Park 5
					3/06/2010 08:10	3/06/2010 08:40	3/06/2010 09:10	3/06/2010 09:40	3/06/2010 10:10
Coliforms	M	MM002	1	cfu/100mL	>10,000	>10,000	>10,000	>10,000	>10,000

These results apply to the sample supplied and not the batch from which it was drawn.

2 indicates that NATA Chemical Accreditation is held for the test.

M indicates that NATA Microbiological Accreditation is held for the test.

indicates NATA accreditation is not held for the test.

2 indicates the test was performed by an external laboratory.

.OR: Limit of Reporting; NT: Not tested; ND: Not detected; NS: No sample; NA: Not assigned, Test not requested;

Bold: Result is outside acceptance limits.

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Moreton Bay Water, Scientific Services
57 Weier Rd, Morayfield
P.O. Box 159 Caboolture Qld 4510
Phone: (07) 5420 0720 Fax: (07) 5420 0716

Final Report
REPORT NUMBER: MBW101377 - 00
ISSUE DATE: 9/06/10

REGISTRATION DETAILS

JOB DESCRIPTION: Caboolture Caravan Park
JOB REFERENCE: MBW101377
REGISTRATION DATE: 2/06/2010
SAMPLE DATE: 2/06/2010



NATA Accredited Laboratory
Number 14414

NATA ENDORSED TEST REPORT

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CUSTOMER DETAILS

CUSTOMER NAME: Caboolture Caravan Park
CUSTOMER CONTACT: Mr Murray Woolnough
ADDRESS: 26 Burnett Road
Caboolture QLD 4510

M. Scott
Lab Technician

Section 78B(2) RTI Act

Toni Hungerford
Lab Technician

TEST REPORT

Analyte		Method	LOR	Units	Caboolture Caravan Park
Free Chlorine	C	TM04	0.1	mg/L	<0.1
pH	-	TM15A	1	pHU	6.91
Conductivity	C	TM07A	1	uS/cm	493
Dissolved Oxygen	C	TM08A	1	mg/L	7.15
Turbidity	-	TM21A	1	NTU	111
BOD	C	TM02	3	mg/L	87
COD	C	TM43	10	mg/L	180
Suspended Solids	C	TM12	2	mg/L	63

Analyte		Method	LOR	Units	Caboolture Caravan Park
Ammonia N	C	TM22F	0.02	mg/L	1.20
NOx	C	TM23F	0.02	mg/L	14.0
TKN	C	TM25F	0.5	mg/L	12.5
TKP	C	TM16TKP	0.02	mg/L	6.61
Organic N	C	TM25F	0.5	mg/L	11.3
Total Nitrogen	C	TM25F	0.5	mg/L	26.5

These results apply to the sample supplied and not the batch from which it was drawn.

C indicates that NATA Chemical Accreditation is held for the test.

M indicates that NATA Microbiological Accreditation is held for the test.

indicates NATA accreditation is not held for the test.

E indicates the test was performed by an external laboratory.

LOR: Limit of Reporting; NT: Not tested; ND: Not detected; NS: No sample; NA: Not assigned, Test not requested;

Bold: Result is outside acceptance limits.

laboratory welcomes your feedback on our performance.

Please send your comments to labstaff@moretonbay.qld.gov.au

RTI DL RELEASE - EHP

Trina Seitz

From: Trina Seitz
Sent: Tuesday, 6 July 2010 11:29 AM
To: 'Hamish Baird'
Subject: RE: Caboolture Caravan Park

Hi Hamish

Thanks for that update. Please let me know a more definitive timeframe once it has been decided.

Best Regards

Trina Seitz
 Acting Environmental Officer
 Environmental Services - North
 Regional Service Delivery
 Department of Environment of Resource Management
 Ph: 3406 2273

From: Hamish Baird [mailto:roofleyptyltd@exemail.com.au]
Sent: Tuesday, 6 July 2010 11:06 AM
To: Trina Seitz
Subject: Caboolture Caravan Park

Hi Trina,

In response to your email earlier today, we are currently in negotiations with EcoWater on the upgrade of the STP. The total cost of the upgrade is \$95,700 (incl. GST).

We expect to have a signed agreement within the week.

At this stage (with negotiations continuing) we anticipate the Site Based Management Plan, to also be completed by EcoWater, could only be drafted after the completed/successful upgrade. We would expect this to fail to meet the previously agreed deadline for the SBMP of 3 September. I will be able to provide a more definitive timetable within the week.

Please let me know if you need any further information at this stage.

Regards,

Hamish Baird
 Operations Manager
 Roofley Pty Ltd

PO Box 584, Deception Bay QLD 4508
 P 07 3203 2032
 M 07 3293 2315
 F 07 3293 2315

Caboolture Caravan Park - Endeavour Caravan Park - Four Star Caravan Park

----- Original Message -----

From: eco water
To: roofleyptyltd@exemail.com.au
Sent: Friday, June 25, 2010 2:24 PM
Subject: quote and other information

Murray,

Please find attached correspondence that could be produced if needed to satisfy DERM that some progress is being

6/07/2010

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made on the situation. It out lines the sort of thing they would require as being addressed to at least give you time to put these things in to place.

Regards

John

RTI DL RELEASE - EHP



6 July 2010
Ref 2365

Roofley Pty Ltd
Attn: Mr. Murray Woolnough

Murray,

I have spent some time going back through Eco Water's original investigation and quote relating to the upgrade of the Caravan Parks wastewater treatment system. I also believe that you now understand the treatment process to a level that lets you appreciate what needs to be added to the plant, to allow it to consistently meet DERM discharge requirements.

1) We would need to install 40,000 litres of primary treatment plus 20,000 litres of balance control complete with shrouded timed macerator pumps and pump control. This process would take care of peak loads and allow separate primary treatment to take place. If these new tanks were set on a 300mm compacted pad (by others) there would be enough primary tank height to allow emergency overflow through the system. We could also claim that the raised pad was overflow protection bunding in the site based management report. (DERM prefer this)

2) The macerator pumps would shift a pre set amount of waste per hour to the existing aeration tank. We would make up frames and fix polymer directional baffles on to them and then hang these from supports into the tank. As previously explained these would give a far longer aeration retention time in the existing tank and also direct the flow through biological media packs we would fit between them. Hopefully most of this equipment can be made up in our factory and transported to site to be fitted.

3) We would also add a screen to the clarifier and final discharge ports plus run sludge return lines back to the primary tanks plus upgrade the discharge test port and chlorinator unit.

I have deleted the primary tank safety rails as well as the shade cloth cover above the existing tank and have simplified the aeration tank equipment as far as possible. We have also taken out any nutrient removal equipment and any provision for irrigation on-site in an effort to get costs down. I believe what is left is about the basic minimum to achieve the discharge requirements demanded by DERM.

Some time in the future when the existing steel tank is past repair it could be replaced by several concrete tanks and we would consider this when placing the new primary tanks. We need to site them in such a way as to be able to install at least one aeration tank before the steel unit was removed from site. I mention this because I remember you saying that you would like to move the new tanks up to within 500mm of the steel tank and fence the new system.

Eco Water Holdings Pty Ltd.

ABN: 64 116996091

44 Telford St Virginia Qld 4014

Ph (07) 3865 3775

Fax (07) 3216 5243

email: ecowaterhol@gmail.com

Free Call: 1800 607 695

Ph International +61 7 3865 3775

We have to consider that you will need to keep the park operational when the steel tank needs to come out and therefore need to allow room for at least one aeration tank with the others. This would keep things going while the steel tank was replaced. (You might eventually gain some room back at the northern end of the fenced area.)

The system price I quote does not include any monthly maintenance by Eco Water as I see you already have people doing this and they could be shown how to carry this on with our system. Our price does include a full operational manual as well as a maintenance schedule for daily, weekly and monthly routine servicing. I would also write up a full site based management document to keep DERM happy.

The new system would carry a warranty on any equipment we supplied or fitted and we would work with you to make sure that the discharge complies with requirements. We would give you a drawing showing the pad requirements and dimensions, you would need to supply for the new tanks. You would also need to arrange for a pump truck to transfer about 50% of the aeration tank contents into our new primary tanks when they were installed. This would give them a start and allow us to see to place the new directional baffles and media packs in the aeration tank. It shouldn't cost too much as you don't need to pay to transport it or treat it at council works. The only other thing we need from you is for your electrician to power up our control box from a supply in your existing control box.

If you accept our price we would require 30% deposit with a written order to proceed. This will allow us to assemble all needed materials and components and manufacture the system. I will also supply the site based management plan at this stage. We require a further 60% payment when all tanks have been modified and aeration equipment manufactured and ready to install (all components can be inspected at this stage.) The final 10% payment is due within 30 days of the completion of this job and when it has been left in good operating condition.

We could supply all of the above for the sum of £4p4(7)(1)(c) Business/commercial/professional/financial affairs exclusive.

Regards

John Ross



ECO WATER HOLDINGS Pty Ltd

P.O. Box 648
Virginia Qld 4014
www.ecowaterholdings.com

6 July 2010
Ref 2366

Caboolture Van Park
Attn: Mr. Murray Woolnough

Murray,

After visiting your tourist park and inspecting the existing wastewater treatment system, I have a full appreciation of what work would need to be carried out, to upgrade the unit, to comply with the discharge licence requirements provided.

Having spoken to your new manager and inspected the current service reports I am confident that the plant is being looked after and any emergency can be dealt with, however it is important that this upgrade work be carried out in the near future. have outlined the scope of the work and costings for this work in a separate document for your perusal.

Upon acceptance of our proposal and with regard to the new system, we will also compile a site based management plan relating to the new plant as quickly as possible. This would involve some staff training and awareness as well as full emergency spill provisions. The new facility would be provided with scheduled routine servicing and have the backup of our company at all times. Final discharge quality of treated water will easily comply with discharge licence criteria as inspected.

If I can provide further information please contact me.

Regards

sch4p4(6) Personal information

John Ross
Principal Eco Water Holdings Pty Ltd

Eco Water Holdings Pty Ltd.

ABN: 64 116996091

44 Telford St Virginia Qld 4014

Ph (07) 3865 3775
Free Call: 1800 607 695
Ph International +61 7 3865 3775

Fax (07) 3216 5243

email: ecowaterhol@gmail.com



ECO WATER HOLDINGS Pty Ltd

P.O. Box 648
Virginia Qld 4014
www.ecowaterholdings.com

6 July 2010
Ref 2367

Murray,

I have read in detail the EPA discharge licence applicable to your caravan park site and in particular its specified levels of BOD, Suspended Solids and faecal coliform permitted to be discharged.

These are as follows ;

BOD	maximum 40 mg/L
Suspended Solids	maximum 60 mg /L
Faecal Coliform	maximum 4000 organisms / 100ml
DO (dissolved oxygen)	must be a minimum of 2.0 mg /L
pH must be between 6.5 and 8.5	
Chlorine residual must not exceed 0.7 mg /L maximum	

There are **NO** contractual obligations in your original agreement document that put limits upon the levels of Nitrogen or Phosphorous discharged.

The existing treatment unit has no in-built provision for nutrient removal and at the time of its installation this was probably not an issue. This is why recent tests for these nutrients show high levels of these nutrients. I would suggest that there is perhaps no legal requirement to upgrade the plant to reduce these elements unless this has been agreed to at a previous time. Even in the latest correspondence from DERM they again include your discharge requirements but NO N or P levels. There is a document dated March 2007 showing water quality **objectives** for Caboolture River (these are **not** EPA legislated requirements as far as I understand.)

What I am suggesting is that you only need at this point in time to comply with the original discharge quality of your licence. Perhaps this should be clarified at some stage with DERM. I would have expected that there should have been some notification agreement to any change of licence and some correspondence to document this agreement.

To add infrastructure to the proposed plant upgrade to reduce Nitrogen (N) and Phosphorous (P) to the levels suggested would add considerably more to the project in cost. Page (2) of the compliance inspection report (item 2 number 6) mentions development based strategies to improve water qualities. I would have thought that this is what the upgrade work you are proceeding with would be categorised as.

It would be interesting to know if the Caboolture Shires discharge from both their Uhlman Rd and main sewage works near you, comply with the Nitrogen & Phosphorous they mention in the report.

Regards

John

Eco Water Holdings Pty Ltd.

ABN: 64 116996091

44 Telford St Virginia Qld 4014

Ph (07) 3865 3775

Fax (07) 3216 5243

email: ecowaterhol@gmail.com

Free Call: 1800 607 695

Ph International +61 7 3865 3775

13-519

DL Documents

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Release

Trina Seitz

From: Hamish Baird [roofleyptyltd@exemail.com.au]
Sent: Wednesday, 21 July 2010 3:34 PM
To: Trina Seitz
Cc: murray@roofley.com
Subject: Fw: Lab report Caboolture Caravan Park
Attachments: UMB100055-[R00].PDF

Hi Trina,

Attached are the most recent test results for the Caboolture Caravan Park.

As discussed Murray yesterday, we are now in discussions with Peter Stewart of Filtration Australia to prepare a quote to upgrade the Sewerage Treatment Plant. Unfortunately we could agree to the terms offered by EcoWater, which is indeed disappointing.

Peter has been on site a few times already, so we hope the initial contract stage will be finalised shortly.

If you require any further information at this stage, please contact either Murray or myself.

Regards,

Hamish Baird
 Operations Manager
 Roofley Pty Ltd

PO Box 584, Deception Bay QLD 4508
 P 07 3203 2032
 M 07 3293 2315
 F 07 3293 2315

Caboolture Caravan Park - Endeavour Caravan Park - Four Star Caravan Park

----- Original Message -----

From: Bob Sheedy
To: roofleyptyltd@exemail.com.au
Cc: Formal Email
Sent: Tuesday, July 13, 2010 3:24 PM
Subject: Lab report Caboolture Caravan Park

Bob Sheedy | Laboratory Manager | Southern Region
 For Chief Executive Officer
Unitywater
 67a Weier Rd Morayfield Qld 4506
 t: 07 5420 0718
 e: bob.sheedy@unitywater.com

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21/07/2010

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RTI DL RELEASE - EHP



Unitywater Laboratory - Moreton Bay
67 Weier Rd, Morayfield
P.O. Box 953 Caboolture Qld 4510
Phone: (07) 5420 0720
Fax: (07) 5420 0716
E-mail: labstaff@unitywater.com



NATA Accredited Laboratory
Number 14414

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REPORT NUMBER: UMB100055 - 00

Final Report
ISSUE DATE: 13/07/10

REGISTRATION DETAILS

JOB DESCRIPTION: Caboolture Caravan Park
JOB REFERENCE: UMB100055
REGISTRATION DATE: 7/07/2010
SAMPLE DATE: 7/07/2010

CUSTOMER DETAILS

NAME: Caboolture Caravan Park
ADDRESS: 26 Burnett Road
Caboolture QLD 4510

Signatories:

sch4p4(6) Personal information

D. Hadfield
Microbiologist

sch4p4(6) Personal information

M. Scott
Lab. Technician

sch4p4(6) Personal information

Arlene Yarrow
Lab. Technician

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted.

Analyte		Method	LOR	Units	Caboolture Caravan Park Final.
Free Chlorine	C	TM04	0.1	mg/L	<0.1
pH	-	TM15A	1	pHU	7.02
Conductivity	C	TM07A	1	uS/cm	736
Dissolved Oxygen	C	TM08A	1	mg/L	8.82
Turbidity	-	TM21A	1	NTU	148
BOD	C	TM02	3	mg/L	75
COD	C	TM43	10	mg/L	215
Suspended Solids	C	TM12	2	mg/L	78

Analyte		Method	LOR	Units	Caboolture Caravan Park Final
Ammonia N	C	TM22F	0.02	mg/L	4.2
NOx	C	TM23F	0.02	mg/L	18.2
TKN	C	TM25F	0.5	mg/L	16.9
TKP	C	TM16TKP	0.02	mg/L	7.12
Organic N	C	TM25F	0.5	mg/L	12.7
Total Nitrogen	C	TM25F	0.5	mg/L	35.1

Analyte		Method	LOR	Units	Caboolture Caravan Park Bacto 1.	Caboolture Caravan Park Bacto 2.	Caboolture Caravan Park Bacto 3.	Caboolture Caravan Park Bacto 4.	Caboolture Caravan Park Bacto 5.
Faecal Coliforms	M	MM002	1	cfu/100mL	>10,000	>10,000	>10,000	>10,000	>10,000

Attachment/s:

Abbreviations:

C indicates that NATA Chemical Accreditation is held for the test.

M indicates that NATA Microbiological Accreditation is held for the test.

- indicates NATA accreditation is not held for the test.

E indicates the test was performed by an external laboratory (refer to attachment/s).

LOR: Limit of Reporting; NT: Not tested; ND: Not detected; NS: No sample; NA: Not assigned, test not requested;

Bold: Result is outside acceptance limits.

The laboratory welcomes your feedback on our performance. Please send your comments to bob.sheedy@unitywater.com

Seitz Trina

From: Seitz Trina
Sent: Friday, 20 August 2010 11:34 AM
To: 'Murray Woolnough'
Subject: RE: Fw: Results for UMB100256 Caboolture Caravan Park

Hi Murray

Thanks for the update on the STP and the monitoring results.
 Please note that Caboolture Caravan Park have exceeded their licence limits for this monitoring report.

For the SBMP, I think that it is important to set a due date for submission. This is to ensure that DERM can keep track of what is further required by the site and when this is due.
 Would Filtration Australia and the Caboolture Caravan Park be able to meet the due date of 1 December 2010?

Best Regards

Trina Seitz
 Acting Environmental Officer
 Environmental Services - North
 Regional Service Delivery
 Department of Environment of Resource Management
 Ph: 3406 2273

From: Murray Woolnough [mailto:murray@roofley.com]
Sent: Wednesday, 18 August 2010 4:49 PM
To: Seitz Trina
Subject: Fwd: Fw: Results for UMB100256 Caboolture Caravan Park

Hi Trina

Following our telephone conversation on Monday last, please find attached the Caboolture Caravan Park sewerage treatment plant results for August 2010.

We have now formalised a contract with Peter Stuart, Sewerage Design Engineer from Filtration Australia to complete work on the Sequencing Batch Reactor (SBR) at the above mentioned caravan park. The sequencing time (duration) of the diffusers will be altered and additional tanks purchased to enable the slowing of the batching times. Also an additional tank the final contact tank will then become the testing point in the future. Filtration Australia have guaranteed after these minor alterations that the results will be well within our DERM licence requirements. We are progressing and should have the work completed by early November 2010. The tanks mentioned above have been ordered and cannot be delivered before the end of September 2010.

Peter Stuart of Filtration Australia will issue us with a SBMP after the completion of the work. I will need to have you record with DERM that the SBMP for Caboolture Caravan Park Sewerage Treatment Plant will not be completed in the time frame set out in your previous correspondence. I will issue you a copy as soon as Peter Stuart has completed it.

Thank you for your patience in this matter.

Regards
 Murray J Woolnough
 Director
 Roofley Pty Ltd

----- Forwarded message -----

From: Hamish Baird <roofleyptyltd@exemail.com.au>
Date: 18 Aug 2010 14:17
Subject: Fw: Results for UMB100256 Caboolture Caravan Park
To: murray@roofley.com

----- Original Message -----

From: Toni Hungerford

To: roofleyptyltd@exemail.com.au

Cc: Formal Email

Sent: Wednesday, August 11, 2010 4:01 PM

Subject: Results for UMB100256 Caboolture Caravan Park

Please find results attached.

Toni Hungerford | Laboratory Technician | Southern Region
Unitywater

For Chief Executive Officer
67a Weier Rd, Morayfield Qld 4506

t: 07 5420 0720

e: toni.hungerford@unitywater.com

w: www.unitywater.com

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<http://www.eset.com>



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67 Weier Rd, Morayfield
P.O. Box 953 Caboolture Qld 4510
Phone: (07) 5420 0720
Fax: (07) 5420 0716
E-mail: labstaff@unitywater.com



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Number 14414

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REPORT NUMBER: UMB100256 - 00

Final Report
ISSUE DATE: 11/08/10

REGISTRATION DETAILS

JOB DESCRIPTION: Caboolture Caravan Park
JOB REFERENCE: UMB100256
REGISTRATION DATE: 4/08/2010
SAMPLE DATE: 4/08/2010

CUSTOMER DETAILS

NAME: Caboolture Caravan Park
ADDRESS: 26 Burnett Road
Caboolture QLD 4510

Signatories:

sch4p4(6) Personal information
D. Hadfield
Microbiologist

sch4p4(6) Personal information
M. Scott
Lab. Technician

sch4p4(6) Personal information
Toni Hungerford
Lab. Technician

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted.

Analyte		Method	LOR	Units	Caboolture Caravan Park
Free Chlorine	C	TM04	0.1	mg/L	<0.1
pH	-	TM15A	1	pHU	7.15
Conductivity	C	TM07A	1	uS/cm	773
Dissolved Oxygen	C	TM08A	1	mg/L	3.19
Turbidity	-	TM21A	1	NTU	195
BOD	C	TM02	3	mg/L	>99
COD	C	TM43	10	mg/L	252
Suspended Solids	C	TM12	2	mg/L	101

Analyte		Method	LOR	Units	Caboolture Caravan Park
Ammonia N	C	TM22F	0.02	mg/L	6.8
NOx	C	TM23F	0.02	mg/L	12.2
TKN	C	TM25F	0.5	mg/L	21.5
TKP	C	TM16TKP	0.02	mg/L	7.68
Organic N	C	TM25F	0.5	mg/L	14.7
Total Nitrogen	C	TM25F	0.5	mg/L	33.7

Analyte		Method	LOR	Units	CCP Faecal 1	CCP Faecal 2	CCP Faecal 3	CCP Faecal 4	CCP Faecal 5
Faecal Coliforms	M	MM002	1	cfu/100mL	>10,000	>10,000	>10,000	>10,000	>10,000

Operator noted blockage in secondary tank.

Attachment/s:

Abbreviations:

C indicates that NATA Chemical Accreditation is held for the test.

M indicates that NATA Microbiological Accreditation is held for the test.

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LOR: Limit of Reporting; NT: Not tested; ND: Not detected; NS: No sample; NA: Not assigned, test not requested;

Bold: Result is outside acceptance limits.

The laboratory welcomes your feedback on our performance. Please send your comments to bob.sheedy@unitywater.com

RTI DL RELEASE - EHP

Seitz Trina

From: Seitz Trina
Sent: Tuesday, 14 September 2010 4:13 PM
To: 'Hamish Baird'
Subject: RE: Lab report Caboolture Caravan Park

Hi Hamish

Thanks for the update on the STP and the monitoring results.
 Please note that Caboolture Caravan Park have exceeded their licence limits for this monitoring report.

Best Regards

Trina Seitz
 Acting Environmental Officer
 Environmental Services - North
 Regional Service Delivery
 Department of Environment of Resource Management
 Ph: 06 2273

From: Hamish Baird [mailto:roofleyptyltd@exemail.com.au]
Sent: Tuesday, 14 September 2010 3:57 PM
To: Seitz Trina
Subject: Fw: Lab report Caboolture Caravan Park

Hi Trina,

Please find attached the most recent test results.

Since our last communication, we have progressed well towards the upgrade of the Sewerage Treatment Plant:

- > We have made received schematic drawings for the STP from Filtration Australia (see attached drawing)
- > Made the first payment to Filtration Australia for work completed (see attached invoice)
- > Constructed the pad where the new tanks are to be set (see attached two photos)
- > We expect delivery of the new tanks next week.

Regards,

Hamish Baird
 Operations Manager
 Roofley Pty Ltd

PO Box 584, Deception Bay QLD 4508
 P 07 3203 2032
 M 04 (6) Personal information
 F 07 3293 2315

Caboolture Caravan Park - Endeavour Caravan Park - Four Star Caravan Park

----- Original Message -----

From: Bob Sheedy
To: roofleyptyltd@exemail.com.au
Cc: Formal Email
Sent: Wednesday, September 08, 2010 7:50 AM
Subject: Lab report Caboolture Caravan Park

Bob Sheedy | Laboratory Manager | Southern Region
 for Chief Executive Officer
Unitywater
 17a Weier Rd Morayfield Qld 4506

13-519

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14/09/2010

t: 07 5420 0719 sch4p4(6) Personal information
e: bob.sheedy@unitywater.com

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_____ The message was checked by ESET NOD32 Antivirus.

<http://www.eset.com>

RTI DL RELEASE - EHP



Unitywater Laboratory - Moreton Bay
67 Weier Rd, Morayfield
P.O. Box 953 Caboolture Qld 4510
Phone: (07) 5420 0720
Fax: (07) 5420 0716
E-mail: labstaff@unitywater.com



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Number 14414

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REPORT NUMBER: UMB100452 - 00

Final Report

ISSUE DATE: 8/09/10

REGISTRATION DETAILS

JOB DESCRIPTION: Caboolture Caravan Park
JOB REFERENCE: UMB100452
REGISTRATION DATE: 1/09/2010
SAMPLE DATE: 1/09/2010

CUSTOMER DETAILS

NAME: Caboolture Caravan Park
ADDRESS: 26 Burnett Road
Caboolture QLD 4510

Signatories:

sch4p4(6) Personal information

D. Hadfield
Microbiologist

sch4p4(6) Personal information

M. Scott
Lab. Technician

sch4p4(6) Personal information

Toni Hungerford
Lab. Technician

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted.

Analyte		Method	LOR	Units	Caboolture Caravan Park
Free Chlorine	C	TM04	0.1	mg/L	<0.1
pH	-	TM15A	1	pHU	7.32
Conductivity	C	TM07A	1	uS/cm	751
Dissolved Oxygen	C	TM08A	1	mg/L	5.57
Turbidity	-	TM21A	1	NTU	218
BOD	C	TM02	3	mg/L	147
COD	C	TM43	10	mg/L	225
Suspended Solids	C	TM12	2	mg/L	77

Analyte		Method	LOR	Units	Caboolture Caravan Park
Ammonia N	C	TM22F	0.02	mg/L	19.9
NOx	C	TM23F	0.02	mg/L	10.4
TKN	C	TM25F	0.5	mg/L	35.1
TKP	C	TM16TKP	0.02	mg/L	8.34
Organic N	C	TM25F	0.5	mg/L	15.2
Total Nitrogen	C	TM25F	0.5	mg/L	45.5

Analyte		Method	LOR	Units	CCP Faecal 1	CCP Faecal 2	CCP Faecal 3	CCP Faecal 4	CCP Faecal 5
Faecal Coliforms	M	MM002	1	cfu/100mL	>10,000	>10,000	>10,000	>10,000	>10,000

Attachment/s:

Abbreviations:

C indicates that NATA Chemical Accreditation is held for the test.

M indicates that NATA Microbiological Accreditation is held for the test.

- indicates NATA accreditation is not held for the test.

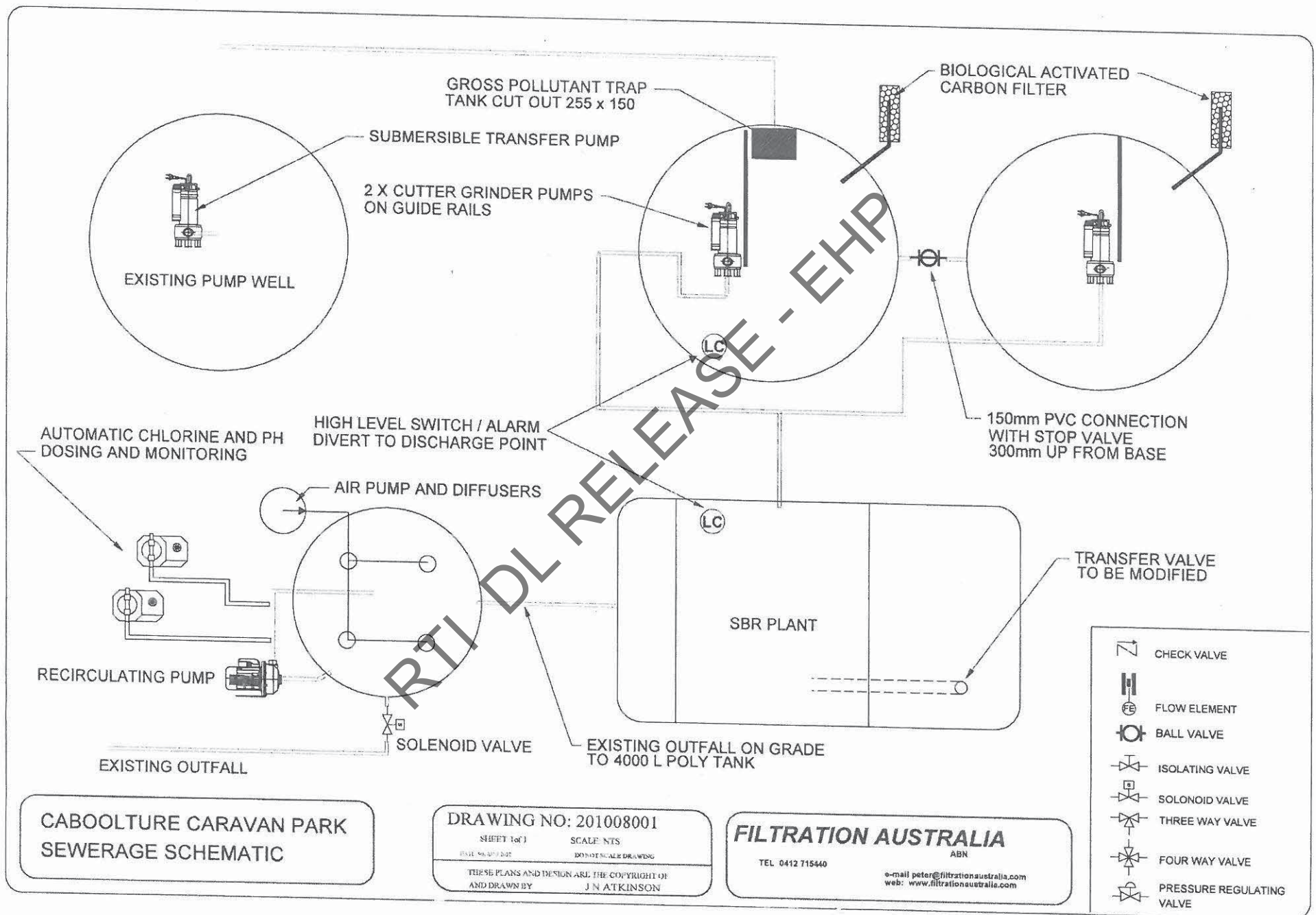
E indicates the test was performed by an external laboratory (refer to attachment/s).

LOR: Limit of Reporting; NT: Not tested; ND: Not detected; NS: No sample; NA: Not assigned, test not requested;

Bold: Result is outside acceptance limits.

The laboratory welcomes your feedback on our performance. Please send your comments to bob.sheedy@unitywater.com

RTI DL RELEASE - EHP



Q Tank
75 South Pine Rd
Brendale QLD 4500

Postal Address:
PO Box 5666
Brendale QLD 4500

Phone: 07 3881 0208
Fax: 07 3881 0209
Email: tank@qtank.com.au

A.B.N. 32 675 386 409

A.C.N. 123 183 193

BSA LICENCE: 1164218

Order

00011584

Bill To:

Roofley Pty Ltd
P.O Box 584
Deception Bay Qld 4508

Ship To:

Roofley Pty Ltd
Caboolture Caravan Park
Caboolture Qld

Contact Phone: 0417 728 229 Murray

SERVED BY:		ORDER NO:	SHIP VIA	DELIVERY DATE	TERMS		DATE	PG.
Lee-Ann Cooper			Q TANK	21/10/2010	C.O.D.		12/10/2010	1
QTY.	ITEM NO.	DESCRIPTION	PRICE INC	UNIT	DISC %	TOTAL INC	TAX	
1	SQ5000RMER	5000L Squat Tank - Merino Tank Fittings Included - Inlet Strainer/s, 90mm Overflow outlet with Mozzie Mesh, 1" Brass outlets, Thread Tape, 1" Watermarked Ball Valve, Lockable Tap Fitting, Tank Water in Use Sign	\$900.00	ea		\$900.00	GS	
1	TANKFIT						GS	
1	FREIGHTNB	Delivery North Brisbane - N.B. Q Tank drivers will endeavour to assist getting your tank into place. If there are insufficient people to aid the driver in safely positioning your tank, Q Tank reserve the right to leave the tank in a suitable location.	\$25.00	ea		\$25.00	GS	
SPECIAL REQUEST INS - DO NOT DRILL O/FLOW OR OUTLETS								
Payment Options: * Cheque - Payable to Q Tank * VISA or Mastercard * Direct Deposit - BSB: 084 209 A/C: 85 679 8080 A/C Name: Q Tank (Please enter Invoice Number as payment reference) Please no cash to driver. Cash is accepted at office only.				SALE AMT. \$925.00 CRANE CHARGE \$0.00 GST \$84.09 TOTAL AMT. \$925.00 AMT APPLIED \$0.00		BALANCE DUE \$925.00		

of 2

Trina

From: Seitz Trina
 Sent: Tuesday, 19 October 2010 1:51 PM
 To: 'Hamish Baird'
 Subject: RE: Lab report Caboolture Caravan Park

Hi Hamish

Thank you for the update on the STP and the monitoring results.
 Please note that Caboolture Caravan Park have exceeded their licence limits for this monitoring reports.

I look forward to coming out onsite in late November / early December for another site inspection.

Best Regards

Trina Seitz
 Acting Environmental Officer
 Environmental Services - North
 Regional Service Delivery
 Department of Environment of Resource Management
 Ph: 3406 2273

From: Hamish Baird [mailto:roofleyptyltd@exemail.com.au]
Sent: Tuesday, 19 October 2010 1:42 PM
To: Seitz Trina
Subject: Fw: Lab report Caboolture Caravan Park

Hi Trina,

Please find attached the most recent test results.

Since our last communication, further work has been done for the upgrade of the Sewerage Treatment Plant:

- > Received/Installed two new 23,000L tanks (see attached two photos)
- > We expect delivery of the new 5,000L tank this week
- > Filtration Australia will commence work next week, to bring the new tanks on-line.

Regards,

Hamish Baird
 Operations Manager
 Roofley Pty Ltd

PO Box 584, Deception Bay QLD 4508
 P 07 3203 2032
 M (6) Personal information
 F 07 3293 2315

Caboolture Caravan Park - Endeavour Caravan Park - Four Star Caravan Park

----- Original Message -----

From: Bob Sheedy
To: roofleyptyltd@exemail.com.au
Sent: Tuesday, October 12, 2010 2:58 PM
Subject: Lab report Caboolture Caravan Park

Bob Sheedy | Laboratory Manager | Southern Region
 For Chief Executive Officer
Unitywater
 67a Weier Rd Morayfield Qld 4506

t: 07 5420 071sch4p4(6) Personal information
e: bob.sheedy@unitywater.com

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_____ Information from ESET NOD32 Antivirus, version of virus signature database 5453 (20100915)

The message was checked by ESET NOD32 Antivirus.

<http://www.eset.com>

RTI DL RELEASE - EHP



Unitywater Laboratory - Moreton Bay
67 Weier Rd, Morayfield
P.O. Box 953 Caboolture Qld 4510
Phone: (07) 5420 0720
Fax: (07) 5420 0716
E-mail: labstaff@unitywater.com



NATA Accredited Laboratory
Number 14414

NATA ENDORSED TEST REPORT

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REPORT NUMBER: UMB100740 - 00

Final Report
ISSUE DATE: 12/10/10

REGISTRATION DETAILS

JOB DESCRIPTION: Caboolture Caravan Park
JOB REFERENCE: UMB100740
REGISTRATION DATE: 6/10/2010
SAMPLE DATE: 6/10/2010

CUSTOMER DETAILS

NAME: Caboolture Caravan Park
ADDRESS: 26 Burnett Road
Caboolture QLD 4510

Signatories:

sch4p4(6) Personal information
D. Hadfield
Microbiologist

sch4p4(6) Personal information
M. Scott
Lab. Technician

sch4p4(6) Personal information
Toni Hungerford
Lab. Technician

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted.

Analyte		Method	LOR	Units	Caboolture Caravan Park
Free Chlorine	C	TM04	0.1	mg/L	<0.1
pH	-	TM15A	1	pHU	7.39
Conductivity	C	TM07A	1	uS/cm	671
Dissolved Oxygen	C	TM08A	1	mg/L	5.37
Turbidity	-	TM21A	1	NTU	147
BOD	C	TM02	3	mg/L	11
COD	C	TM13	10	mg/L	209
Suspended Solids	C	TM12	2	mg/L	74

Analyte		Method	LOR	Units	Caboolture Caravan Park
Ammonia N	C	TM22F	0.02	mg/L	28.9
NOx	C	TM23F	0.02	mg/L	0.37
TKN	C	TM25F	0.5	mg/L	40.8
TKP	C	TM16TKP	0.02	mg/L	5.86
Organic N	C	TM25F	0.5	mg/L	11.9
Total Nitrogen	C	TM25F	0.5	mg/L	41.2

Analyte		Method	LOR	Units	CCP Faecal 1	CCP Faecal 2	CCP Faecal 3	CCP Faecal 4	CCP Faecal 5
Faecal Coliforms	M	MM002	1	cfu/100mL	>10,000	>10,000	>10,000	>10,000	>10,000

Attachment/s:

Abbreviations:

C indicates that NATA Chemical Accreditation is held for the test.

M indicates that NATA Microbiological Accreditation is held for the test.

- indicates NATA accreditation is **not** held for the test.

E indicates the test was performed by an external laboratory (refer to attachment/s).

LOR: Limit of Reporting; NT: Not tested; ND: Not detected; NS: No sample; NA: Not assigned, test not requested;

Bold: Result is outside acceptance limits.

The laboratory welcomes your feedback on our performance. Please send your comments to bob.sheedy@unitywater.com

RTI DL RELEASE - EHP

Seitz Trina

From: Seitz Trina
Sent: Friday, 19 November 2010 11:48 AM
To: 'Hamish Baird'
Cc: murray@roofley.com
Subject: RE: Lab report Caboolture Caravan Park

Hamish

Thank you for submitting these test results. However, these results do not show that all of the required water quality monitoring has been conducted. Can you please provide me with the Faecal Coliforms quality for this monitoring period? Also, can you please provide the results of the daily quantities of treated water released to the river for the past month?

Thank you for the update on the STP upgrade.

Best Regards

Trina Seitz

Acti Environmental Officer
 Environmental Services - North
 Regional Service Delivery
 Department of Environment of Resource Management
 Ph: 3406 2273

From: Hamish Baird [mailto:roofleyptyltd@exemail.com.au]
Sent: Friday, 19 November 2010 11:25 AM
To: Seitz Trina
Cc: murray@roofley.com
Subject: Fw: Lab report Caboolture Caravan Park

Trina,

Please find attached the recent test results for the STP.

This is an update on the STP upgrade:

1. Final contact tank has been constructed and put in place, this tank will be used to give a final aeration/chlorination before discharging to the Caboolture River;
2. An onsite meeting was held on Monday 15 November 2010 with Greg from E-pro Industrial Electricians from Mooloolaba regarding the final design of the new wiring for two additional pumps in the tanks which will be used as anaerobic balance tanks;
3. Next week Greg from E-pro Industrial Electricians specialising in sewerage treatment plants will fit new timers in the Sequential Batch Reactor (SBR) control box;
4. Steve Petit from Maxcon, sewerage treatment plant equipment suppliers met us onsite on Monday to discuss the size of the 'copra-sacs' which will act as gross pollutant traps in the anaerobic tanks;
5. The size of the feed from the sewerage collection pit has been finalised/installed ie 50mm high pressure line with Peter Stuart sewerage design engineer from Filtration Australia; and
6. The maserator pump/s installed in the collection pit have been modified with the assistance of Barry from BAS Pumps so as not to clog with foreign matter e.g. clothing/sanitary pads flushed down the toilets.

Regards,

Hamish Baird
 Operations Manager
 Roofley Pty Ltd

PO Box 584, Deception Bay QLD 4508
 P 07 3203 2032
 F 07 3293 2315

Caboolture Caravan Park - Endeavour Caravan Park - Four Star Caravan Park

13-519

DL Documents

93 of 328

19/11/2010

----- Original Message -----

From: Bob Sheedy

To: roofleyptyltd@exemail.com.au

Sent: Friday, November 12, 2010 8:38 AM

Subject: Lab report Caboolture Caravan Park

Bob Sheedy | Laboratory Manager | Southern Region

For Chief Executive Officer

Unitywater

67a Weier Rd Morayfield Qld 4506

t: 07 5420 0719 ^{sch4p4} (6) Personal information

e: bob.sheedy@unitywater.com

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Information from ESET NOD32 Antivirus, version of virus signature database 5612 (20101111)

The message was checked by ESET NOD32 Antivirus.

<http://www.eset.com>

RTI DL RELEASE - EMP



itywater Laboratory - Moreton Bay
7 Weier Rd, Morayfield
P.O. Box 953 Caboolture Qld 4510
Phone: (07) 5420 0720
Fax: (07) 5420 0716
E-mail: labstaff@unitywater.com



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Number 14414

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Final Report

ISSUE DATE: 12/11/10

REPORT NUMBER: UMB100954 - 00

REGISTRATION DETAILS

JOB DESCRIPTION: Caboolture Caravan Park
JOB REFERENCE: UMB100954
REGISTRATION DATE: 3/11/2010
SAMPLE DATE: 3/11/2010

CUSTOMER DETAILS

NAME: Caboolture Caravan Park
ADDRESS: 26 Burnett Road
Caboolture QLD 4510

Signatories:

sch4p4(6) Personal information
K. Holmes
Assistant Chemist

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted.

Analyte		Method	LOR	Units	Caboolture Caravan Park
Free Chlorine	C	TM04	0.1	mg/L	<0.1
pH	-	TM15A	1	pHU	6.83
Conductivity	C	TM07A	1	uS/cm	590
Dissolved Oxygen	C	TM08A	1	mg/L	2.17
Turbidity	-	TM21A	1	NTU	113
BOD	C	TM02	3	mg/L	59
COD	C	TM43	10	mg/L	147
Suspended Solids	C	TM12	2	mg/L	70

Analyte		Method	LOR	Units	Caboolture Caravan Park
Ammonia N	C	TM22F	0.02	mg/L	1.88
NOx	C	TM23F	0.02	mg/L	21.0
TKN	C	TM25F	0.5	mg/L	11.9
TKP	C	TM16TKP	0.02	mg/L	6.30
Organic N	C	TM25F	0.5	mg/L	10.0
Total Nitrogen	C	TM25F	0.5	mg/L	32.9

Attachment/s:

Abbreviations:

C indicates that NATA Chemical Accreditation is held for the test.

M indicates that NATA Microbiological Accreditation is held for the test.

- indicates NATA accreditation is not held for the test.

E indicates the test was performed by an external laboratory (refer to attachment/s).

LOR: Limit of Reporting; NT: Not tested; ND: Not detected; NS: No sample; NA: Not assigned, test not requested;

Bold: Result is outside acceptance limits.

The laboratory welcomes your feedback on our performance. Please send your comments to bob.sheedy@unitywater.com

RTI DL RELEASE - EHP

Seitz Trina

From: Hamish Baird [roofleyptyltd@exemail.com.au]
Sent: Friday, 19 November 2010 12:04 PM
To: Seitz Trina
Subject: Re: Lab report Caboolture Caravan Park
Attachments: UMB100972-[R00].pdf

Hi Trina,

Attached is the missing report. I will get back to you on the water released data.

Thanks,

Hamish Baird
 Operations Manager
 Roofley Pty Ltd

PO Box 584, Deception Bay QLD 4508
 P 07 3203 2032
 F 07 3293 2315

sch44 (6) Personal information

Caboolture Caravan Park - Endeavour Caravan Park - Four Star Caravan Park

----- Original Message -----

From: Seitz Trina
To: Hamish Baird
Cc: murray@roofley.com
Sent: Friday, November 19, 2010 11:47 AM
Subject: RE: Lab report Caboolture Caravan Park

Hamish

Thank you for submitting these test results. However, these results do not show that all of the required water quality monitoring has been conducted. Can you please provide me with the Faecal Coliforms quality for this monitoring period? Also, can you please provide the results of the daily quantities of treated water released to the river for the past month?

Thank you for the update on the STP upgrade.

Best Regards

Trina Seitz
 Acting Environmental Officer
 Environmental Services - North
 Regional Service Delivery
 Department of Environment of Resource Management
 Ph: 3406 2273

From: Hamish Baird [mailto:roofleyptyltd@exemail.com.au]
Sent: Friday, 19 November 2010 11:25 AM
To: Seitz Trina
Cc: murray@roofley.com
Subject: Fw: Lab report Caboolture Caravan Park

Trina,

Please find attached the recent test results for the STP.

This is an update on the STP upgrade:

1. The final contact tank has been constructed and put in place, this tank will be used to give a final aeration/chlorination before discharging to the Caboolture River;
2. An onsite meeting was held on Monday 15 November 2010 with Greg from E-pro Industrial Electricians from Mooloolaba regarding the final design of the new wiring for two additional pumps in the tanks which will be used as anaerobic balance tanks;
3. Next week Greg from E-pro Industrial Electricians specialising in sewerage treatment plants will fit new timers in the Sequential Batch Reactor (SBR) control box;
4. Steve Petit from Maxcon, sewerage treatment plant equipment suppliers met us onsite on Monday to discuss the size of the 'copra-sacs' which will act as gross pollutant traps in the anaerobic tanks;
5. The size of the feed from the sewerage collection pit has been finalised/installed ie 50mm high pressure line with Peter Stuart sewerage design engineer from Filtration Australia; and
6. The maserator pump/s installed in the collection pit have been modified with the assistance of Barry from BAS Pumps so as not to clog with foreign matter e.g. clothing/sanitary pads flushed down the toilets.

Regards,

Hamish Baird
Operations Manager
Roofley Pty Ltd

PO Box 584, Deception Bay QLD 4508

P 07 3203 2032

sch4p4 (6) Personal information

F 07 3293 2315

Caboolture Caravan Park - Endeavour Caravan Park - Four Star Caravan Park

----- Original Message -----

From: Bob Sheedy

To: roofleyptyltd@exemail.com.au

Sent: Friday, November 12, 2010 8:38 AM

Subject: Lab report Caboolture Caravan Park

Bob Sheedy | Laboratory Manager | Southern Region
For Chief Executive Officer

Unitywater

67a Weier Rd Morayfield Qld 4506

t: 07 5420 0714 sch4p4 (6) Personal information

e: bob.sheedy@unitywater.com

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Information from ESET NOD32 Antivirus, version of virus signature database 5612 (20101111)

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<http://www.eset.com>

+-----+
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3 sheets of A4 paper = 1 litre of water
+-----+

Information from ESET NOD32 Antivirus, version of virus signature database 5631 (20101118)



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67 Weier Rd, Morayfield
P.O. Box 953 Caboolture Qld 4510
Phone: (07) 5420 0720
Fax: (07) 5420 0716
E-mail: labstaff@unitywater.com



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Number 14414

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REPORT NUMBER: UMB100972 - 00

Final Report
ISSUE DATE: 8/11/10

REGISTRATION DETAILS

JOB DESCRIPTION: Caboolture Caravan Park
JOB REFERENCE: UMB100972
REGISTRATION DATE: 4/11/2010
SAMPLE DATE: 4/11/2010

CUSTOMER DETAILS

NAME: Caboolture Caravan Park
ADDRESS: 26 Burnett Road
Caboolture QLD 4510

Signatories:

sch4p4(6) Personal information

A. Cobb
Lab. Technician

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted.

Analyte		Method	LOR	Units	CCP Faecal 1	CCP Faecal 2	CCP Faecal 3	CCP Faecal 4	CCP Faecal 5
Faecal Coliforms	M	MM002	1	cfu/100mL	>10,000	>10,000	>10,000	>10,000	>10,000

Attachment/s:

Abbreviations:

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- indicates NATA accreditation is not held for the test.

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Bold: Result is outside acceptance limits.

The laboratory welcomes your feedback on our performance. Please send your comments to bob.sheedy@unitywater.com

Seitz Trina

From: Seitz Trina
Sent: Tuesday, 7 December 2010 12:11 PM
To: 'Murray Woolnough'
Cc: Hamish Baird
Subject: RE: Lab report Caboolture Caravan Park

Hi Murray
 Thank you for that confirmation, Murray.

Unfortunately, I will no longer be in this position in the New Year. However, I will inform you of your new project manager as soon as that has been sorted.

Best Regards

Trina Seitz
 Acting Environmental Officer
 Environmental Services - North
 Regional Service Delivery
 Department of Environment of Resource Management
 Ph: 3406 2273

From: Murray Woolnough [mailto:murray@roofley.com]
Sent: Tuesday, 7 December 2010 11:57 AM
To: Seitz Trina
Cc: Hamish Baird
Subject: Re: Lab report Caboolture Caravan Park

Hi Trina

In answer to your question of the flow of treated water to the Caboolture River from our Sequential Batch Reactor (SBR). We are averaging 2500 litres or 2.5KL or 2.5 cubic metres per hour which would equate to 60KL or 60 cubic metres per day. As per our licence IPDE00921208 page 7 of 20, Schedule C - Water Section (C5) "the total quantity of contaminants released from release point W1 during any dry weather day must not exceed 88 cubic metres and in any day must not exceed 200 cubic metres".

We are most happy to work in with you Trina and DERM to answer your questions.

Kind regards
 Murray J Woolnough
 Director
 Roofley Pty Ltd

On 19 November 2010 11:47, Seitz Trina <Trina.Seitz@derm.qld.gov.au> wrote:
 Hamish

Thank you for submitting these test results. However, these results do not show that all of the required water quality monitoring has been conducted. Can you please provide me with the Faecal Coliforms quality for this monitoring period? Also, can you please provide the results of the daily quantities of treated water released to the river for the past month?

Thank you for the update on the STP upgrade.

Best Regards

Trina Seitz
 Acting Environmental Officer
 Environmental Services - North
 Regional Service Delivery
 Department of Environment of Resource Management
 Ph: 3406 2273

From: Hamish Baird [mailto:roofleyptyltd@exemail.com.au]
Sent: Friday, 19 November 2010 11:25 AM
To: Seitz Trina
Cc: murray@roofley.com
Subject: Fw: Lab report Caboolture Caravan Park

Trina,

Please find attached the recent test results for the STP.

This is an update on the STP upgrade:

1. The final contact tank has been constructed and put in place, this tank will be used to give a final aeration/chlorination before discharging to the Caboolture River;
2. An onsite meeting was held on Monday 15 November 2010 with Greg from E-pro Industrial Electricians from Mooloolaba regarding the final design of the new wiring for two additional pumps in the tanks which will be used as anaerobic balance tanks;
3. Next week Greg from E-pro Industrial Electricians specialising in sewerage treatment plants will fit new timers in the Sequential Batch Reactor (SBR) control box;
4. Steve Petit from Maxcon, sewerage treatment plant equipment suppliers met us onsite on Monday to discuss the size of the 'copra-sacs' which will act as gross pollutant traps in the anaerobic tanks;
5. The size of the feed from the sewerage collection pit has been finalised/installed ie 50mm high pressure line with Peter Stuart sewerage design engineer from Filtration Australia; and
6. The maserator pump/s installed in the collection pit have been modified with the assistance of Barry from BAS Pumps so as not to clog with foreign matter e.g. clothing/sanitary pads flushed down the toilets.

Regards,

Hamish Baird
 Operations Manager
 Roofley Pty Ltd

PO Box 584, Deception Bay QLD 4508

P 07 3203 2032

sch4 (6) Personal information

F 07 3293 2315

Caboolture Caravan Park - Endeavour Caravan Park - Four Star Caravan Park

----- Original Message -----

From: Bob Sheedy
To: roofleyptyltd@exemail.com.au
Sent: Friday, November 12, 2010 8:38 AM
Subject: Lab report Caboolture Caravan Park

Bob Sheedy | Laboratory Manager | Southern Region
 For Chief Executive Officer

Unitywater

67a Weier Rd Morayfield Qld 4506

t: 07 5420 0715 sch4 (6) Personal information

e: bob.sheedy@unitywater.com

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Information from ESET NOD32 Antivirus, version of virus signature database 5612 (20101111)

The message was checked by ESET NOD32 Antivirus.

Seitz Trina

From: Hamish Baird [roofleyptyltd@exemail.com.au]
Sent: Thursday, 16 December 2010 2:36 PM
To: Seitz Trina
Cc: murray@roofley.com
Subject: Fw: Lab report Caboolture Caravan Park
Follow Up Flag: Follow up
Flag Status: Red
Attachments: UMB101173-[R00].PDF; CCF16122010_00000.pdf

Trina,

Please find attached the recent test results for the STP.

We have made significant progress on the STP:

1. Installed new electronic controls (see attached from Epro Australia)
2. Installed 2 new pumps (see attached from Filtration Australia)
3. Installed copra-sacs (see attached from Aquatec-Maxcon)

Regards,

Hamish Baird
 Operations Manager
 Roofley Pty Ltd

PO Box 584, Deception Bay QLD 4508
 P 07 3203 2032
 M (6) Personal information
 F 07 3293 2315

Caboolture Caravan Park - Endeavour Caravan Park - Four Star Caravan Park

----- Original Message -----

From: Bob Sheedy
To: roofleyptyltd@exemail.com.au
Sent: Thursday, December 09, 2010 7:41 AM
Subject: Lab report Caboolture Caravan Park

Bob Sheedy | Laboratory Manager | Southern Region
Unitywater
 67a Weier Rd Morayfield Qld 4506
 t: 07 5420 0719
 e: bob.sheedy@unitywater.com

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Information from ESET NOD32 Antivirus, version of virus signature database 5683 (20101208)

The message was checked by ESET NOD32 Antivirus.

<http://www.eset.com>

RTI DL RELEASE - EHP



Unitywater Laboratory - Moreton Bay
67 Weier Rd, Morayfield
P.O. Box 953 Caboolture Qld 4510
Phone: (07) 5420 0720
Fax: (07) 5420 0716
E-mail: labstaff@unitywater.com



NATA Accredited Laboratory
Number 14414

NATA ENDORSED TEST REPORT

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REPORT NUMBER: UMB101173 - 00

Final Report
ISSUE DATE: 9/12/10

REGISTRATION DETAILS

JOB DESCRIPTION: Caboolture Caravan Park
JOB REFERENCE: UMB101173
REGISTRATION DATE: 2/12/2010
SAMPLE DATE: 2/12/2010

CUSTOMER DETAILS

NAME: Caboolture Caravan Park
ADDRESS: 26 Burnett Road
Caboolture QLD 4510

Signatories:

sch4p4(6) Personal information

A. Cobb
Lab. Technician

sch4p4(6) Personal information

M. Scott
Lab. Technician

sch4p4(6) Personal information

Toni Hungerford
Lab. Technician

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted.

Analyte		Method	LOR	Units	Caboolture Caravan Park 2/12/2010 10:40
Free Chlorine	C	TM04	0.1	mg/L	<0.1
pH	-	TM15A	1	pHU	7.19
Conductivity	C	TM07A	1	uS/cm	434
Dissolved Oxygen	C	TM08A	1	mg/L	3.95
Turbidity	-	TM21A	1	NTU	99
BOD	C	TM02	3	mg/L	20
COD	C	TM43	10	mg/L	103
Suspended Solids	C	TM12	2	mg/L	57

Analyte		Method	LOR	Units	Caboolture Caravan Park 2/12/2010 10:40
Ammonia N	C	TM22F	0.02	mg/L	8.3
NOx	C	TM23F	0.02	mg/L	4.85
TKN	C	TM26F	0.5	mg/L	15.4
TKP	C	TM16TKP	0.02	mg/L	3.13
Organic N	C	TM25F	0.5	mg/L	7.1
Total Nitrogen	C	TM25F	0.5	mg/L	20.3

Analyte		Method	LOR	Units	CCP Faecal 1 2/12/2010 08:00	CCP Faecal 2 2/12/2010 08:30	CCP Faecal 3 2/12/2010 09:00	CCP Faecal 4 2/12/2010 09:30	CCP Faecal 5 2/12/2010 10:00
Faecal Coliforms	M	MM002	1	cfu/100mL	>10,000	>10,000	>10,000	>10,000	>10,000

Attachment/s:

Abbreviations:

C indicates that NATA Chemical Accreditation is held for the test.

M indicates that NATA Microbiological Accreditation is held for the test.

- indicates NATA accreditation is not held for the test.

E indicates the test was performed by an external laboratory (refer to attachment/s).

LOR: Limit of Reporting; NT: Not tested; ND: Not detected; NS: No sample; NA: Not assigned, test not requested;

Bold: Result is outside acceptance limits.

The laboratory welcomes your feedback on our performance. Please send your comments to bob.sheedy@unitywater.com

EPRO AUSTRALIA PTY LTD

P.O. BOX 8195
MAROOCHYDORE DC QLD 4558
Ph 07 5479 2775 Fax 07 5479 2795
ABN: 44 111 726 044

Tax Invoice

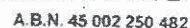
Invoice No: 00001539
Date: 30/11/2010

Bill To:

Roofley Pty Ltd
P.O. Box 584
Deception Bay
QLD 4508

	Purchase Order Number	Terms: Net 14 Days
Description	Amount	
Caboolture Caravan Park STP Works Completed to 30/11/2010 Supplied and Installed Electrical Controls in STP Control Board for 2 x 1.1 KW 3 Phase Pumps in New Balance Tanks	sch4p4(7)(1)(c) Business/commercial/p	
<div>RTI DL RELEASE - EHP</div> <div>PAID 13/12/10 601731871</div>		
Remittance by Direct Deposit would be appreciated. Account Details: BSB 484-799 A/C 002751410	Total Ex GST:	
Note: All Goods and Services remain the property of Epro Australia Pty Ltd until invoices are paid in full. Any outstanding invoices may incur a interest charge at the rate of 18%. This interest will be charged monthly on overdue accounts	GST:	sch4p4(7)(1)(c) Business/commercial/p
	Balance Due:	

69419731



119 Toongarra Road (PO Box 455)
Ipswich Queensland 4305 Australia
Telephone: 07 3813 7100
Facsimile: 07 3813 7199

FILTRATION AUSTRALIA

136 parsons road wolvi
Qld 4570
Phone 0412715440
Email peter@filtrationaustralia.com

Abn 35268943726

INVOICE

INVOICE 00323
DATE: NOVEMBER 19, 2010

ROOFLEY PTY LTD
WOOLNOUGH TRADING TRUST

CABOULTURE C/PARK
RECTIFICATION STP

Order verbal murray

DESCRIPTION	HOURS	RATE	AMOUNT
SUPPLY 2 OF 3 PHASE SUBMERCIBLE TRANSFER PUMPS DISTRIBUTOR WHITE INTERNATIONAL MODEL ZEN-DGBLUEP150/2/G50VT POWER 3 PHASE 1.1KW WEIGHT 23KGS BANK DETAILS BSB 124187 ACC# 30967152			
TOTAL			

Make all checks payable to [Your Company Name]

Total due in 15 days. Overdue accounts subject to a service charge of 1% per month.

Enquiries Trina Seitz
Telephone (07) 3406 2273
Your reference -
Our reference STH1622



Queensland
Government

20 May 2010

Roofley Pty Ltd
T/a Caboolture Caravan Park
PO Box 584
DECEPTION BAY QLD 4508

Department of
Environment and Resource
Management

Attn: Hamish Baird

Dear Mr Baird

Re: Compliance Inspection – Caboolture Caravan Park

I refer to the site inspection of Caboolture Caravan Park located off Lower King Street, Caboolture, on 17 May 2010 by the Department of Environment and Resource Management (DERM) officers Trina Seitz and Deena Murray. Hamish Baird and Murray Woolnough from Roofley Pty Ltd (Caboolture Caravan Park) also attended this inspection. The purpose of the inspection was in relation to DERM's compliance project within the Caboolture River Catchment. It should be noted that the inspection was not a complete audit of your site and does not relieve you of your other obligations under the *Environmental Protection Act 1994* (and subordinate legislation).

Effluent Quality

Prior to the site inspection, upon request effluent monitoring results were provided to DERM by Mr Baird for the months September 2009 to February 2010. Upon review, it is evident that these monitoring results do not comply with the release quality requirements of condition C6 IPDE00921208 (development approval) which have included but not limited to exceedance of total suspended solids, biochemical oxygen demand and total nitrogen (see attachment 1).

Under condition G4 of the development approval, it states that the registered operator is to investigate and evaluate alternative treatment and disposal options (see attachment 1). If this is not feasible, you are permitted to dispose treated sewage effluent to the Caboolture River with a maximum total phosphorus of 1.0mg/L. In comparison to the effluent monitoring results provided, Caboolture Caravan park have exceeded this limit by more than 11 times.

Your attention is drawn to the water quality objectives detailed in Table 2 (see attachment 2) from Schedule 1 of the *Environmental Protection (Water) Policy 2009*, which details the Caboolture River environmental values and water quality objectives. The monitoring results provided to DERM also demonstrate that a number of contaminants present in the effluent which are being discharged to the Caboolture River are far higher than these objectives. For example, the total nitrogen levels are more than 120 times the water quality objectives. The document Caboolture River Environmental Values and Water Quality Objectives can be located in full at <http://www.derm.qld.gov.au/register/p01821aa.pdf>

Further, you are also advised that the South East Queensland Healthy Waterways Strategy 2007-2012 'Point Source Pollution Management Action Plan', states the following outcomes for 2026 which were endorsed in 2005 by the SEQ Healthy Waterways Partnership Policy Council (Action Plan), which DERM is a part of and therefore supports this plan:

- 100 percent of wastewater discharges in a manner which effectively removes nutrient loads to waterways in SEQ; and

- Until 100 percent reuse is achieved, wastewater discharges to achieve discharge standards of 3 mg/L nitrogen and 1 mg/L phosphorus (average concentration).

Notification

DERM records indicate that Caboolture Caravan park failed to notify when the effluent release quality did not comply with condition C6 of the development approval. Notification of such exceedances is a requirement of development approval conditions H22 and H23 (see attachment 1).

Documentation

It has also become apparent that Caboolture Caravan Park has not complied with condition A10, A11 and A12 of the development approval (see attachment 1). During the site inspection you confirmed that no site based management plan has been developed for this site as required.

You must immediately take all measures necessary to ensure compliance with the conditions of your development approval as a breach of approval conditions is a serious offence, which can result in a maximum penalty of \$166 500.00, in accordance with section 435(2) of the *Environmental Protection Act 1994*.

In order for DERM to assess progress made towards compliance with development approval conditions and towards meeting the objectives under the *Environmental Protection (Water) Policy 2009* and the Queensland Healthy Waterways Strategy, you are required to:

1. Provide all monitoring results of the final effluent, for the next 6 months to DERM within 7 days of the results being supplied to the Caboolture Caravan Park.
2. By the 3 June 2010, provide a written response addressing each of the following issues. If an issue can not be completed within the 14 day period, you are to advise a timeframe in which it will be completed:
 - assessment of the monitoring results for the period of September 2009 to December 2009 and February 2010 including any explanation for these exceedances;
 - details (including supporting documentation) of any investigation or evaluation of alternative treatment and disposal options for treated sewage effluent;
 - development of corrective actions and contingency plan to prevent future exceedances and breaches of development approval;
 - provision of monitoring results to DERM for January, March, April and May 2010;
 - provision of a Site Based Management Plan in accordance with development approval ;
 - development of management strategies to achieve continuous improvement, with particular consideration given to water quality objectives and the South East Queensland Healthy Waterways Strategy 2007 – 2012.

I recommend that you immediately take all reasonable and practicable measures to rectify the above issues, as is required of you under your General Environmental Duty. Queensland environment legislation provides for a number of enforcement tools to address offences, ranging from the giving of a warning notice, requesting certain actions be undertaken or ceased, issuance of a fine, or prosecution.

Whilst DERM cannot ignore or pardon contraventions of the legislation, DERM is focussed on achieving environmental outcomes. In exercising its discretion, not to take enforcement action at this time, DERM looks forward to the prompt resolution of this matter.

If you have any queries regarding the above matter, please contact Trina Seitz on telephone 3406 2273.

Yours sincerely

[REDACTED]
sch4p4(6) Personal information

Nadine Cramp
A/Manager (Moreton Bay)
Environmental Services - North
Department of Environment and Resource Management

RTI DL RELEASE - EHP

Attachment 1

(Extract of conditions in Caboolture Caravan Park's Development Approval)

Site-Based Management Plan

- (A10) The registered operator of this development approval, must develop and implement an effective and appropriate Site-based Management Plan which details how the registered operator of this development approval will manage the actual and potential environmental impacts resulting from the carrying out of the environmentally relevant activity.
- (A11) The Site-based Management Plan must address at least the following matters:
- (i) Routine operating procedures to prevent or minimise environmental harm during normal operations;
 - (ii) Contingency plans and emergency procedures to deal with foreseeable risks and hazards including corrective responses to prevent and mitigate environmental harm;
 - (iii) Handling of environmental complaints;
 - (iv) Keeping and production of environmental records and reports;
 - (v) Lines and methods of communication including a feedback mechanism to ensure that management is made aware of potential environmental problems and any failure of procedures adopted; and
 - (vi) Staff training and awareness of environmental issues related to the operation of the environmentally relevant activities, including responsibilities under the Environmental Protection Act.
- (A12) A copy of the Site-based Management Plan must be kept at the approved place and be available for examination by an authorised person on request.

Quality Characteristics Of Release to Waters

- (C6) The release of contaminants to waters must comply, at the sampling and in-situ measurement points specified in Schedule H, with each of the limits specified in Schedule C Table 1 for each quality characteristic.

SCHEDULE C- TABLE 1 - RELEASE QUALITY CHARACTERISTIC LIMITS

QUALITY CHARACTERISTICS	RELEASE LIMIT	LIMIT TYPE
5-day Biochemical Oxygen Demand (uninhibited)	20 mg/L	80 percentile
5-day Biochemical Oxygen Demand (uninhibited)	40 mg/L	maximum
Suspended Solids	30 mg/L	80 percentile
Suspended Solids	60 mg/L	maximum
pH (pH Units)	6.5 to 8.5	range
Dissolved Oxygen	2.0 mg/L	minimum
Free Chlorine Residual	0.7 mg/L	maximum
Faecal Coliforms	1000 organisms per 100 mL as a median value (minimum of 5 samples taken at not less than half-hourly intervals in any one (1) day, with 4 out of the 5 samples containing less than 4000 organisms per 100 mL)	

Attachment 1 (continuing)

(Extract of conditions in Caboolture Caravan Park's Development Approval)

Alternative Disposal/Treatment Options

- (G4) *The registered operator of this development approval must investigate and evaluate the following alternative treatment and disposal options for treated sewage effluent:*
- (i) *disposal of effluent to the Caboolture North Sewage Treatment Plant;*
 - (ii) *total land disposal with sufficient wet weather storage; and*
 - (iii) *disposal to the Caboolture River with a maximum total phosphorus content of 1.0 mg/L*

Exception Reporting

- (H22) *The registered operator of this development approval must notify the administering authority in writing of any monitoring result which indicates an exceedance of any development approval limit within twenty-eight (28) days of completion of the analysis.*
- (H23) *The written notification required by condition number H22 above must include:*
- (i) *the full analysis results, and*
 - (ii) *details of investigation or corrective actions taken, and*
 - (iii) *any subsequent analysis.*

RTI DL RELEASE - EMB

ENVIRONMENTAL VALUES AND WATER QUALITY OBJECTIVES FOR WATERS OF THE
CABOOLTURE RIVER CATCHMENT

Water area/type (refer Plan WQ1422)	Level of protection	Water quality objectives to protect aquatic ecosystem EV ¹⁻¹¹
Upland freshwater	Aquatic ecosystem – slightly to moderately disturbed (level 2)	<p>For slightly-moderately disturbed upland freshwaters in Pine Rivers Shire, refer to Pine Rivers Shire Council Stream Health Manual (May, 2004). Table 15 and Map 1 provide extracts from the manual.</p> <p>For slightly-moderately disturbed upland freshwaters outside Pine Rivers Shire, the following apply:</p> <ul style="list-style-type: none"> turbidity: <25 NTU suspended solids: <6 mg/L chlorophyll a: <2 µg/L total nitrogen: <250 µg/L oxidised N: <40 µg/L ammonia N: <10 µg/L organic N: <200 µg/L total phosphorus: <30 µg/L filterable reactive phosphorus (FRP): <15 µg/L dissolved oxygen: 90 – 110% saturation pH: 6.5 – 8.2 secchi depth: n/a
Lowland freshwater (comprising lowland streams, wallum/tannin- stained streams and coastal streams)	Aquatic ecosystem – slightly to moderately disturbed (level 2)	<p>For slightly-moderately disturbed lowland freshwaters in Pine Rivers Shire, refer to Pine Rivers Shire Council Stream Health Manual (May, 2004). Table 15 and Map 1 provide extracts from the manual.</p> <p>For slightly-moderately disturbed lowland freshwaters outside Pine Rivers Shire, the following apply:</p> <ul style="list-style-type: none"> turbidity: <50 NTU suspended solids: <6 mg/L chlorophyll a: <5 µg/L total nitrogen: <500 µg/L oxidised N: <60 µg/L ammonia N: <20 µg/L organic N: <420 µg/L total phosphorus: <50 µg/L filterable reactive phosphorus (FRP): <20 µg/L dissolved oxygen: 85 – 110% saturation pH: 6.5 – 8.0 secchi depth: n/a <p><i>Handwritten notes:</i> • 5mg/L * • 0.6mg/L • 0.2mg/L • 42 mg/L • 0.5mg/L</p>



22 January 2010
Ref 2260qu

Attn: Murray & Hamish

Eco Water Holdings would carry out the upgrade design and supply three (x3) 20,000 litre concrete tanks to site on to a level concrete base pad (by others).

We would supply and fit to these tanks, baffles, top safety railing, odour control vents and polymer chambers as well as dual macerator pumps with control electrics.

We would design and make up the stainless steel frame to secure the biological media packs and polymer directional race baffles into your existing steel tank.

We would supply and fit a new aeration manifold and diffuser aeration outlets that could be removed and cleaned without pumping out the tank. We would rework the existing aeration feed pipework to the clarifiers to make them more efficient, carrying out any upgrade modifications necessary to achieve this.

We would disconnect the existing system intake flow pipework and re-direct it to the new primary tanks. We would supply and fit a modified and more efficient chlorination mixer assembly.

We would supply and fit a more efficient test port.

We would supply the electrical control box needed to operate the new delivery pumps and all inter tank pipework and fittings.

We would supply and fit a shade cloth cover over the existing tank assembly plus any supporting frame work needed for it.

We would supply and fit a nutrient reduction filter pod plus pumps and controls needed to operate it.

We would also supply a 3,000 litre polymer holding tank and necessary pipework to keep it full of treated water. This tank assembly would include a high head pump and controls necessary to deliver recycled water to a landscaped area.

The system as described would be left in a reliable operating manner and would include the first years monthly routine maintenance servicing, plus a written maintenance document.

All of the above upgrade work would cost sch4p4(7)(1)(c) Business/commercial/professional/financial affairs exclusive.

Regards

John Ross

Eco Water Holdings Pty Ltd.

ABN: 64 116996091

44 Telford St Virginia Qld 4014

Ph (07) 3865 3775
Free Call: 1800 607 695
Ph International +61 7 3865 3775

Fax (07) 3216 5243

email: ecowaterhol@gmail.com

40 Reginald Street,
Rocklea 4108
PO Box 3160,
Yeronga Qld 4104
Australia

Ph: (07) 3710 9100
Free call: 1800 620 690
Fax: (07) 3710 9199
Email:
info@simmondsbristow.com.au



Simmonds & Bristow

Established 1965

ACN 010 252 418

Pty Ltd

Form: SB-0315

Rev: 0

Date: 11.12.09



26 May, 2010

Hamish Baird
Roofley Pty Ltd
PO Box 584
Deception Bay QLD 4058



Attention: Hamish Baird

Laboratory Services

- Water & Wastewater Analysis
- Microbiological Analysis
- Soil Analysis
- Corrosion Assessments
- Concrete & Aggregates
- Sludge Analysis

Scientific & Engineering Services

- Process Engineering
- Acid Sulphate Soils Investigations
- Blue-Green Algae Investigations
- Stormwater Management
- Contaminated Sites Investigations
- Environmental Plans & Programmes
- EASI Sampling
- Litigation Support

Training

- Sewage & Wastewater Treatment Plant Operator Training
- Drinking & Industrial Water Treatment Plant Operator Training
- Swimming Pool Operator Training
- Environmental Awareness
- Sampling & Environmental Compliance

Dear Sir,

Proposal for STP Audit & Site Based Management Plan S&B Reference No.: P-1005-041

Thank you for the opportunity to present this proposal for an audit of your Sewage Treatment Plant (STP), a site based management plan and ongoing monitoring of your system. We are pleased to offer our services in order for you to meet your licence requirements.

This proposal has been prepared for you in consultation with our professional environmental consultants, engineers & chemists, in order to recommend the most effective methodology for the project.

I'll contact you via telephone or email in a few days to answer any questions you may have. In the meantime, please do not hesitate to contact me directly if you have any queries.

Yours faithfully
SIMMONDS & BRISTOW Pty Ltd

sch4p4(6) Personal information

Fiona Milnes
Scientific Sales & Support

sch4p4(6) Personal information

David Bristow
Managing Director

Proposal/Service Agreement

for

STP Audit & Site Based Management Plan

Rooftop Pty Ltd

Submitted

26 May, 2010

WHY CHOOSE SIMMONDS & BRISTOW?

By choosing Simmonds & Bristow for your Laboratory needs, you can count on being serviced by qualified and competent professionals. Simmonds & Bristow provides a one-stop shop for water & environmental monitoring, consulting and training needs.

ENGINEERING CONSULTANCY

Our engineering consultancy team has successfully designed, commissioned, audited, upgraded and monitored a variety of water and wastewater treatment plants including municipal water treatment plants, sewage treatment plants, trade waste treatment plants, reverse osmosis plants and pool treatment systems. Our expertise in design and commissioning of plants has ranged throughout Queensland, other parts of Australia and the Torres Strait.

Our engineers are competent in all facets of water and wastewater treatment, and can provide troubleshooting advice when you need it most, to prevent problems and save you time and money. They work closely with scientific staff to develop cost-effective solutions using the most proven yet up-to-date technology available.

Simmonds & Bristow's Engineering expertise covers:

- **Treatment Plant Process Design**

In-house capabilities means Simmonds & Bristow offer complete and effective treatment plant design services to its clients. Process designs are developed with the operator in mind at all times, ensuring the plant is easy to operate and maintain.

- **Treatment Plant Optimisation & Validation Studies**

Treatment systems must be tested and studied to ensure they will work according to plan, and once built, the system must be validated depending on the technologies used.

Simmonds & Bristow have expertise in pilot studies, flocculation, coagulation, settlement, dissolved air flotation and filtration trials, chlorine breakpoint and decay testing, mixer systems, oxygen transfer alpha factor testing trials, and silt density index trials.

- **Treatment Plant Commissioning**

Treatment plants must be commissioned to meet specifications. By commissioning your new plant we find and remedy many of the faults inherent in any new plant before handover to your operations personnel.

Our comprehensive commissioning report gives you a detailed insight into limitations of the new plant, while confirming that the plant is capable of achieving the desired performance.

Our engineers work closely with our water industry trainers to ensure the plant is commissioned optimally and operations staff are fully trained in routine maintenance procedures. Our comprehensive commissioning programs have been delivered to clients such as:

- Queensland Nickel: activated sludge sewage treatment plant
- Erub Island Community sewage treatment plant
- Wujal Wujal Community sewage treatment plant

- **Treatment Plant Performance Evaluation and Audits**

Part of the effective operation of any water or wastewater treatment plant is a regular performance evaluation or audit of the plant and its operators. This is increasingly important under the Environmental Protection Act, so that CEOs have documented proof that their plants are running efficiently and effectively.

CHEMICAL & MICROBIOLOGY NATA-ACCREDITED LABORATORIES

Simmonds & Bristow have fully equipped, state of the art Chemical and Microbiological laboratories and are NATA-accredited for the majority of analytes performed on various matrices. In the event that external analysis is required, we will organise for the sample to be sent from our laboratory, saving you the hassle of sourcing another laboratory.

As a NATA-accredited laboratory we take pride in quality and stand by our methods. You can rest assured your results will be reliable and accurate. Our experienced scientists operate some of Queensland's most advanced analytical instrumentation.

ENVIRONMENTAL CONSULTANCY

Our environmental consultancy comprises qualified and competent environmental scientists, who are experienced in a broad range of environmental services:

- water, air and soil monitoring programs;
- sample collection;
- results interpretation and compliance reports;
- development application support;
- environmental licensing and management plans;
- modelling of air and water systems;
- environmental assessments and audits,
- occupational hygiene; and
- hazard assessment and risk analysis.

By providing this holistic environmental service, you can rest assured we've got you covered when it comes to compliance and environmental issues. We relieve you to focus on managing and growing your business, instead of on environmental compliance!

TURNAROUND TIME - A KEY PERFORMANCE INDICATOR

Simmonds & Bristow recognise the importance of providing results and interpretive reports in a timely manner. As a Silver Club Client, Roofley Pty Ltd can enjoy the benefits of a seven working day turnaround time for analytical results on waters. All short interpretive reports will be issued within 3 working days from the date of completion of the analytical results.

For major projects, we will carefully consider the amount of time required to complete the work, and are committed to meeting this deadline. In cases when you need something done urgently, we'll do everything we can to provide the outcomes you need, when you need them.

In the event that unforeseen circumstances prevent the issue of results or reports within the indicated time frame (below), your client manager will phone your nominated contact to inform them of the issue and provide a revised date for issue of reports. Rest assured that Simmonds & Bristow tracks "due delivery on time" daily as a Key Performance Indicator and we have consistently met our goal of 95%.

CUSTOMER SERVICE

When you choose Simmonds & Bristow, we will assign a single client manager to you, to look after your company and its requirements. You will avoid wasting precious time being transferred from person to person, trying to find someone who knows about the work we do for you. In addition, a Project Manager from our technical services teams will be nominated to manage the project and ensure outcomes are met.

No matter what the reason for your call, your client manager, Fiona Milnes, can help. Fiona will know your monitoring program requirements inside and out, and will also know the status of any current jobs or projects you may have in our system. Your Project Manager, Max Yui, will keep in touch with you throughout the project, to keep you informed of the project status, progress and any obstacles. When you have specific queries, Fiona will be the first point of contact, and can arrange for you to speak with our professionals directly as appropriate.

RTI DL RELEASE - EHP

SCOPE OF WORKS

It is our understanding that you require the following services;

- ✓ STP Audit
- ✓ Site Based Management Plan
- ✓ Ongoing Monitoring of your plant to licence requirements

STP Audit

A comprehensive audit program run by our experienced engineers involves;

- ✓ Site visit of your plant at Caboolture Caravan Park by an experienced engineer who will
 - ✓ Meet with client and gather information
 - ✓ Inspect the plant & equipment for performance and condition
 - ✓ Analyse previous laboratory data and operator log sheets to evaluate plant issues
 - ✓ Review existing operating procedures and knowledge
 - ✓ Notify operations personnel and management of initial problems.
- ✓ Modelling of existing processes and review of
 - ✓ hydraulic and biological performance and capacity
 - ✓ mechanical integrity
 - ✓ overall current treatment capacity
- ✓ Interpretation of results and comprehensive recommendations for plant and process improvements

	Price per event (excl. GST)
<i>Establishment Planning and Project Management</i>	
<i>Site Visit</i>	
<i>Sample Analysis</i>	
<i>Desktop Review of STP</i>	
<i>Documentation & STP Audit Report</i>	
Total cost	

Site-based Management Plan

Project management and establishment of your Site based management plan (SBMP) includes consultation with DERM (Department of Environment & Resource Management)

The site based management plan contains the following mandatory elements.:

- ✓ Environmental commitments
- ✓ Identification of environmental issues & potential impacts
- ✓ Control measures for routine operations to minimise likelihood of environmental harm
- ✓ Contingency plan & emergency procedures for non-routine situations
- ✓ Handling of Environmental complaints
- ✓ Record keeping
- ✓ Organisation structures, responsibility & effective communication
- ✓ Monitoring contaminant releases
- ✓ Conducting environmental impact assessments
- ✓ Staff training
- ✓ Periodic review of environmental performance & continual improvement

The site based management plan then covers in detail, specific to your site the following sub management plans;

- ✓ Wastewater management plan
- ✓ Odour management plan
- ✓ Solid waste management plan
- ✓ Stormwater management plan
- ✓ Air emissions management plan
- ✓ Hazardous substances management plan
- ✓ Environmental noise management plan
- ✓ Land contamination management plan
- ✓ Environmental training and reporting management plan

	Price per event (excl. GST)
<i>Establishment Planning and Project Management</i>	
<i>Site Visit</i>	
<i>Review of documents and Basic SBMP</i>	sch4p4(7)(1)(c) Business/commercial/professional/financial a
<i>Supporting Sub Management Plans</i>	
Total cost	

Ongoing Monitoring

SAMPLE COLLECTION BY AN ACCREDITED S&B ENVIRONMENTAL SCIENTIST OR FIELD OFFICER:

Samples requiring analysis will be collected from your release point W1 at the Caboolture Caravan Park. Five (5) samples will be collected as outlined below, each month, in accordance with standard sampling procedures. Samples for microbiological analysis need to be sampled at half hour intervals, this therefore affects the time on site for the sampler.

LABORATORY ANALYSIS and PRICING FOR YOUR SAMPLES:

Laboratory Analysis / Test Groups*	Price per test (excl. GST)
W1 Final Effluent 1 (full suite)	
pH (on site)	
Oxygen dissolved (on site)	
Chlorine - Free (on site)	
Suspended Solids	
Biochemical Oxygen Demand (BOD) Carbonaceous	
Faecal Coliforms	sch4p4(7)(1)(c) Business/commercial/professional/financial a
Total per sample	
W1 Final Effluent 2, 3, 4 & 5.	
Faecal coliforms	
Total per sample	
Total per 4 samples	

Laboratory Analysis / Test Groups*	Price per test (excl. GST)
Travel to and from site (3 hrs)	
Sampling & Field Analysis (2 hrs)	
Interpretive Report	sch4p4(7)(1)(c) Business/commercial/professional/finan
Certification & Handling	
Total per event	

* We recommend this test group as a more cost-effective means of testing for the individual parameters you have requested. Please see attached documentation for details of the parameters tested within the individual test groups.

These tests will be conducted in our NATA-accredited laboratory. Ninety-two percent of S&B's laboratory tests are analysed using our NATA-accredited methods; the remaining tests are analysed using industry recognised procedures developed by S&B to strict quality standards or are calculations and hence are not specifically NATA accredited. Some testing may be sourced externally but will still meet the above standards.

INTERPRETIVE REPORT:

An interpretive report prepared by our engineers or environmental scientists will turn the data generated by our laboratory into information you can use to assist your future decision-making processes. In particular this report will compare your laboratory results to your licence limits and detail trending of results against acceptance criteria. Trend graphs will be included in this report.

NATA CERTIFICATION & HANDLING:

As a NATA-accredited laboratory we take pride in quality and stand by our methods. You can rest assured your results will be reliable and accurate.

LEAD AND TURNAROUND TIME

STP Audit

We require a lead time of 1-2 weeks for commencement of your STP audit. Completion of this project is expected to take 2 weeks for completion.

Site Based Management Plan

We require a lead time of 1-2 weeks for commencement of your site based management plan. Completion of this project is expected to take approximately 4 weeks for completion.

Ongoing Monitoring.

The normal turn around time for this analysis is approximately 10 working days from sample receipt.

PRICING

STP Audit	sch4p4(7)(1)(c) Business/commercial/professional/financial affairs
Site Based Management Plan (SBMP)	

If both options are accepted for commencement at the same time, a discount in project management & travel will be applied, as only one site visit will be required and the package price will be as follows;

STP audit & Site Based Management Plan (SBMP)	sch4p4(7)(1)(c) Business/commercial/professional/financial affairs
---	--

The per event price for monthly monitoring, including NATA accredited sampling and interpretive report service is as follows:

Monthly Monitoring (per event)	sch4p4(7)(1)(c) Business/commercial/professional/financial affairs
--------------------------------	--

EXCLUSIONS

These prices **do not** include:

- X GST
- X Freight

TERMS & CONDITIONS OF TRADE

- ✓ All work will be carried out in accordance with the Terms and Conditions document available from our website: <http://www.simmondsbristow.com.au/Home/RequestaQuote.aspx>

Simmonds & Bristow Pty Ltd is a NATA accredited, quality assured organisation and holds third party certification to Quality Assurance Standard AS/NZS ISO 9001:2000 & ISO17025.

We trust our proposal meets your immediate needs and we look forward to our being of service to you in the very near future. When you are ready to proceed with your project, please quote the **Ref No. P-1005-041** on your order. This proposal is valid for 60 days, from date of issue.

Please do not hesitate to contact us if you have any queries

sch4p4(6) Personal information
Fiona Milnes
Scientific Sales & Support

sch4p4(6) Personal information

David Bristow
Managing Director

PROPOSAL ACCEPTANCE - The Schedule

The Client

Company Name: Roofley Pty Ltd

Proposal Number P-1005-041:

Address: PO Box 584, Deception Bay, QLD 4508

Contact Person: Hamish Baird

Contact Phone\Fax\Email: 07 3203 2032

Signed :

Date :

Where the proposal does not state a fixed fee or specific hourly rates for the work, or the work is varied by the client, the work will be undertaken on an hourly basis, the consultant will charge fees based on the following rates.

Managing Director	per hour	Experienced Trainer	per hour
Principal Engineer	per hour	Process Engineer	per hour
Principal Scientist	per hour	Scientist	per hour
Senior Environmental Scientist	per hour	Senior Analyst	per hour
Senior Engineer	per hour	Environmental Officer	per hour
Senior Scientist	per hour	Field Officer	per hour
Senior Trainer	per hour	Analyst	per hour
Experienced Engineer	per hour	Project Coordinator	per hour
Experienced Scientist	per hour	Secretary	per hour

The consultant will charge for all time spent performing the work, including, but without limiting the types of activities for which the consultant may charge, time spent drafting and perusing letters and enclosures, making and receiving telephone calls, perusing documents, meeting with you and other people, attending upon regulatory authorities, on other professionals and advisors, attending to inspect and make enquiries, undertaking investigations, researching legal issues, travelling, time spent waiting for appointments, administering a matter and reviewing your file, conferring with other practitioners and other staff within the consultant's office, preparing memoranda, technical drawings, specifications, reports, attending conferences, mediations and all forms of dispute resolution, preparing for conferences and meetings, attending at government departments and registries, undertaking searches and enquiries, supervising support personnel, preparing summaries, schedules, chronologies and other memoranda to assist in performance of the work, drafting, sending and perusing e-mails.

The consultant may increase the hourly charges set out above but shall not increase fees more than twice in any calendar year or increase fees by more than 10% per annum.

Trina Seitz

From: Hamish Baird [roofleyptyltd@exemail.com.au]
Sent: Monday, 31 May 2010 4:05 PM
To: Trina Seitz
Subject: Re: Site Based Management Plan

Attachments: MBRC proposal.pdf; Quote from Simmonds and Bristow.pdf; Quote from EcoWater.pdf; Test Results - April10.pdf; Test Results - May10.pdf; Safety Inspection Report - 26 Feb 09.pdf

Hi Trina,

Following my call to your office on Friday, later that day, I collected your letter (dated 20 May 2010) from our PO Box.

In response to your request for documentation, point 2:

- **Exceedances:** As discussed in the meeting on 17 May, the manager for the Caravan Park left on 22 January 2010 and we are not able to confirm if there were any specific events up until this date which may have lead to exceedances. We are also unaware of any specific events after 22 January. We are able suppose possible reasons:
 1. Failure of the testing method: specifically testing samples taken from the top of the tank rather than the testing point and only one sample taken for the Faecal Coliforms rather than 5 samples.
 2. Procedural failure: as the treatment plant has been able to produce satisfactory results, it stands to reason that the plant does work and is capable of meeting the requirements, and as we are not aware of any events to change the inflow to the plant, it is possible that we have failed in the daily operational tasks.
- **Treatment alternatives:** As discussed in the meeting on 17 May, we initiated discussions last year with Moreton Bay Regional Council (MBRC) to connect to the Council. As per attached (MBRC proposal) the cost of connection is commercial/professional/financial affairs (assuming no headworks charge). This connection would result in an increase in rates of approx \$60,000 p.a. and would not remove our problems entirely as we would still be responsible for the new sewer pump station. At this point in time we will not be proceeding with a connection to the Council sewer.
- **Actions to prevent future exceedances:**
 1. We have a meeting with representatives of MBRC (which has been reseeduled a couple of times and now planned for 01/06/10) to review the testing method.
 2. We have contacted a Simmonds & Bristow to conduct an audit of the treatment plant (see attached Quote from Simmonds and Bristow). We are now looking for a quote from a second company before proceeding. We expect this process may take at least another month.
 3. We have previously contacted John Ross of Eco Water to upgrade the treatment plant (see attached Quote from EcoWater).
- **Monitoring results:**
 - > Attached are April and May;
 - > I have requested copies from MBRC of January and March. These are expected before the end of the week.
- **Site Based Management Plan, Simmonds and Bristow** (in the same attached document) have provided a quote to develop the Site Based Management Plan. But as discussed with you on Friday (1) at a cost of commercial/professional/financial affairs plus GST we are likely to use an external provider to perform the audit then write the Plan based on these results. We would expect this process to take 3 months.
- **Continuous improvement:** As discussed in our meeting on 17 May, we purchased the Caboolture Caravan Park in June 2008 and during this period we have already commenced a number of initiatives:
 1. Conducted a safety inspection of the plant (see attached Safety Inspection Report)
 2. Installed new stairs and gentry (at a cost of commercial/professional/financial affairs)
 3. Purchased new back-up pump for SUB station (cost commercial/professional/financial affairs)
 4. Painted treatment plant to protect metal finishing (cost commercial/professional/financial affairs)
 5. Initiated discussions with MBRC about sewer connection
 6. Contacted EPA about use of treated water on Caboolture Caravan Park gardens
 7. Contacted neighbouring property about use of treated water on gazing land
 8. Initiated discussions with Eco Water about plant upgrade

While we do fully appreciate the gravity of the concerns about the operation of the treatment plant, we hope you would appreciate that since our ownership of the caravan park, we have been more than willing to work to improve the plant's operation.

I will update you with progress on the outstanding items, but if you need any further information at this stage please let me know.

Regards,

13-519

DL Documents

126 of 328

31/05/2010

Hamish Baird
Operations Manager
Roofley Pty Ltd

PO Box 584, Deception Bay QLD 4508
P 07 3203 2032

M (6) Personal information
F 07 3293 2315

Caboolture Caravan Park - Endeavour Caravan Park - Four Star Caravan Park

----- Original Message -----

From: Trina Seitz

To: Hamish Baird

Sent: Friday, May 28, 2010 10:56 AM

Subject: Site Based Management Plan

Hi Hamish

As discussed, please see the information sheet regarding site based management plans.

Best Regards,

Trina Seitz

Acting Environmental Officer

Environmental Services - North

Regional Service Delivery

Department of Environment of Resource Management

Ph: 3406 2273

<<SBMP.pdf>>

+-----+
Think B4U Print

1 ream of paper = 6% of a tree and 5.4kg CO2 in the atmosphere

3 sheets of A4 paper = 1 litre of water
+-----+

Information from ESET NOD32 Antivirus, version of virus signature database 5151 (20100527)

The message was checked by ESET NOD32 Antivirus.

<http://www.eset.com>

REGISTRATION DETAILS

JOB DESCRIPTION: Caboolture Caravan Park
JOB REFERENCE: MBW101087
REGISTRATION DATE: 5/05/2010
SAMPLE DATE: 5/05/2010

Final Report

REPORT NUMBER: MBW101087 - 01
ISSUE DATE: 19/05/10



NATA Accredited Laboratory
Number 14414

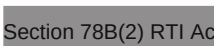
NATA ENDORSED TEST REPORT

This document shall not be reproduced except in full. This laboratory is accredited by the National Association of Testing Authorities, Australia. The tests reported herein have been performed in accordance with its scope of accreditation.

CUSTOMER DETAILS

CUSTOMER NAME: Caboolture Caravan Park
CUSTOMER CONTACT:
ADDRESS: 26 Burnett Road
Caboolture QLD 4510


D. Hadfield
Microbiologist


Section 78B(2) RTI Act
K. Holmes
Assistant Chemist

TEST REPORT

Analyte		Method	LOR	Units	Caboolture Caravan Park
Free Chlorine	C	TM04	0.1	mg/L	0.1
pH	-	TM15A	1	pHU	6.92
Conductivity	C	TM07A	1	uS/cm	544
Dissolved Oxygen	C	TM08A	1	mg/L	<1.00
Turbidity	-	TM21A	1	NTU	206
BOD	C	TM02	3	mg/L	78 *
COD	C	TM43	10	mg/L	170
Suspended Solids	C	TM12	2	mg/L	71

Analyte		Method	LOR	Units	Caboolture Caravan Park
Ammonia N	C	TM22F	0.02	mg/L	0.08
NOx	C	TM23F	0.02	mg/L	6.87
TKN	C	TM25F	0.5	mg/L	11.7
TKP	C	TM16TKP	0.02	mg/L	6.21
Organic N	C	TM25F	0.5	mg/L	11.6
Total Nitrogen	C	TM25F	0.5	mg/L	18.6

Analyte		Method	LOR	Units	Caboolture Caravan Park
Faecal Coliforms	M	MM002	1	cfu/100mL	>10,000

* Use BOD results as a Guide Only.

These results apply to the sample supplied and not the batch from which it was drawn.

C indicates that NATA Chemical Accreditation is held for the test.

M indicates that NATA Microbiological Accreditation is held for the test.

- indicates NATA accreditation is not held for the test.

E indicates the test was performed by an external laboratory.

LOR: Limit of Reporting; NT: Not tested; ND: Not detected; NS: No sample; NA: Not assigned, Test not requested;

Bold: Result is outside acceptance limits.

The laboratory welcomes your feedback on our performance.

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REGISTRATION DETAILS

JOB DESCRIPTION: Caboolture Caravan Park
JOB REFERENCE: MBW100527
REGISTRATION DATE: 3/03/2010
SAMPLE DATE: 3/03/2010

Final Report

REPORT NUMBER: MBW100527 - 01
ISSUE DATE: 31/05/10



NATA Accredited Laboratory
Number 14414

NATA ENDORSED TEST REPORT

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CUSTOMER DETAILS

CUSTOMER NAME: Caboolture Caravan Park
CUSTOMER CONTACT:
ADDRESS: 26 Burnett Road
Caboolture QLD 4510

Section 78B(2) RTI Act

R. Sheedy
Lab. Manager


K. Holmes
Assistant Chemist

TEST REPORT

Analyte		Method	LOR	Units	Caboolture Caravan Park
Free Chlorine	C	TM04	0.1	mg/L	<0.1
pH	-	TM15A	1	pHU	7.32
Conductivity	C	TM07A	1	uS/cm	260
Dissolved Oxygen	C	TM08A	1	mg/L	4.10
Turbidity	-	TM21A	1	NTU	26
BOD	C	TM02	3	mg/L	4
COD	C	TM43	10	mg/L	54
Suspended Solids	C	TM12	2	mg/L	21

Analyte		Method	LOR	Units	Caboolture Caravan Park
Ammonia N	C	TM22F	0.02	mg/L	4.4
NOx	C	TM23F	0.02	mg/L	1.01
TKN	C	TM25F	0.5	mg/L	9.3
TKP	C	TM16TKP	0.02	mg/L	1.52
Organic N	C	TM25F	0.5	mg/L	4.9
Total Nitrogen	C	TM25F	0.5	mg/L	10.3

Analyte		Method	LOR	Units	Caboolture Caravan Park
Faecal Coliforms	M	MM002	1	cfu/100mL	100

These results apply to the sample supplied and not the batch from which it was drawn.

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Bold: Result is outside acceptance limits.

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RTI DL RELEASE - EHP

REGISTRATION DETAILS

JOB DESCRIPTION: Caboolture Caravan Park
JOB REFERENCE: MBW100030
REGISTRATION DATE: 6/01/2010
SAMPLE DATE: 6/01/2010

Final Report

REPORT NUMBER: MBW100030 - 01
ISSUE DATE: 31/05/10



NATA Accredited Laboratory
Number 14414

NATA ENDORSED TEST REPORT

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CUSTOMER DETAILS

CUSTOMER NAME: Caboolture Caravan Park
CUSTOMER CONTACT:
ADDRESS: 26 Burnett Road
Caboolture QLD 4510

Section 78B(2) RTI Act

D. Hadfield
Microbiologist

M. Scott
Lab Technician

TEST REPORT

Analyte		Method	LOR	Units	Caboolture Caravan Park
Free Chlorine	C	TM04	0.1	mg/L	0.1
pH	-	TM15A	1	pHU	7.64
Conductivity	C	TM07A	1	uS/cm	548
Dissolved Oxygen	C	TM08A	1	mg/L	5.68
Turbidity	-	TM21A	1	NTU	72
BOD	C	TM02	3	mg/L	12
COD	C	TM43	10	mg/L	24
Suspended Solids	C	TM12	2	mg/L	28

Analyte		Method	LOR	Units	Caboolture Caravan Park
Ammonia N	C	TM22F	0.02	mg/L	20.8
NOx	C	TM23F	0.02	mg/L	1.19
TKN	C	TM25F	0.5	mg/L	29.9
TKP	C	TM16TKP	0.02	mg/L	4.63
Organic N	C	TM25F	0.5	mg/L	9.1
Total Nitrogen	C	TM25F	0.5	mg/L	31.1

Analyte		Method	LOR	Units	Caboolture Caravan Park
Faecal Coliforms	M	MM002	1	cfu/100mL	70

Use BOD as a guide only, sample tested outside holding time.

These results apply to the sample supplied and not the batch from which it was drawn.

C indicates that NATA Chemical Accreditation is held for the test.

M indicates that NATA Microbiological Accreditation is held for the test.

- indicates NATA accreditation is not held for the test.

E indicates the test was performed by an external laboratory.

LOR: Limit of Reporting; NT: Not tested; ND: Not detected; NS: No sample; NA: Not assigned, Test not requested;

Bold: Result is outside acceptance limits.

The laboratory welcomes your feedback on our performance.

Please send your comments to labstaff@moretonbay.qld.gov.au

REGISTRATION DETAILS

JOB DESCRIPTION: Caboolture Caravan Park
 JOB REFERENCE: MBW101414
 REGISTRATION DATE: 3/06/2010
 SAMPLE DATE: 3/06/2010

Final Report

REPORT NUMBER: MBW101414 01
 ISSUE DATE: 9/06/10



NATA Accredited Laboratory
 Number 14414

NATA ENDORSED TEST REPORT

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CUSTOMER DETAILS

CUSTOMER NAME: Caboolture Caravan Park
 CUSTOMER CONTACT: Mr Murray Woolnough
 ADDRESS: 26 Burnett Road
 Caboolture QLD 4510

Section 78B(2) RTI Act

R. Sheedy
 Lab. Manager

TEST REPORT

Analyte		Method	LOR	Units	Caboolture Caravan Park 1 3/06/2010 08:10	Caboolture Caravan Park 2 3/06/2010 08:40	Caboolture Caravan Park 3 3/06/2010 09:10	Caboolture Caravan Park 4 3/06/2010 09:40	Caboolture Caravan Park 5 3/06/2010 10:10
Coliforms	M	MM002	1	cfu/100mL	>10,000	>10,000	>10,000	>10,000	>10,000

These results apply to the sample supplied and not the batch from which it was drawn.

2 indicates that NATA Chemical Accreditation is held for the test.

M indicates that NATA Microbiological Accreditation is held for the test.

indicates NATA accreditation is not held for the test.

3 indicates the test was performed by an external laboratory.

LOR: Limit of Reporting; NT: Not tested; ND: Not detected; NS: No sample; NA: Not assigned, Test not requested;

Bold: Result is outside acceptance limits.

The laboratory welcomes your feedback on our performance.

Please send your comments to labstaff@moretonbay.qld.gov.au

REGISTRATION DETAILS

JOB DESCRIPTION: Caboolture Caravan Park
JOB REFERENCE: MBW101377
REGISTRATION DATE: 2/06/2010
SAMPLE DATE: 2/06/2010

CUSTOMER DETAILS

CUSTOMER NAME: Caboolture Caravan Park
CUSTOMER CONTACT: Mr Murray Woolnough
ADDRESS: 26 Burnett Road
Caboolture QLD 4510

Final Report

REPORT NUMBER: MBW101377 00
ISSUE DATE: 9/06/10



NATA Accredited Laboratory
Number 14414

NATA ENDORSED TEST REPORT

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Section 78B(2) RTI Act

M. Scott
Lab Technician

Toni Hungerford
Lab Technician

TEST REPORT

Analyte		Method	LOR	Units	Caboolture Caravan Park
Free Chlorine	C	TM04	0.1	mg/L	<0.1
pH	-	TM15A	1	pHU	6.91
Conductivity	C	TM07A	1	uS/cm	493
Dissolved Oxygen	C	TM08A	1	mg/L	7.15
Turbidity	-	TM21A	1	NTU	111
BOD	C	TM02	3	mg/L	87
COD	C	TM43	10	mg/L	180
Suspended Solids	C	TM12	2	mg/L	63

Analyte		Method	LOR	Units	Caboolture Caravan Park
Ammonia N	C	TM22F	0.02	mg/L	1.20
NOx	C	TM23F	0.02	mg/L	14.0
TKN	C	TM25F	0.5	mg/L	12.5
TKP	C	TM16TKP	0.02	mg/L	6.61
Organic N	C	TM25F	0.5	mg/L	11.3
Total Nitrogen	C	TM25F	0.5	mg/L	26.5

These results apply to the sample supplied and not the batch from which it was drawn.

C indicates that NATA Chemical Accreditation is held for the test.

M indicates that NATA Microbiological Accreditation is held for the test.

indicates NATA accreditation is not held for the test.

E indicates the test was performed by an external laboratory.

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Bold: Result is outside acceptance limits.

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Please send your comments to labstaff@moretonbay.qld.gov.au

RTI DL RELEASE - EHP



6 July 2010
Ref 2365

Roofley Pty Ltd
Attn: Mr. Murray Woolnough

Murray,

I have spent some time going back through Eco Water's original investigation and quote relating to the upgrade of the Caravan Parks wastewater treatment system. I also believe that you now understand the treatment process to a level that lets you appreciate what needs to be added to the plant, to allow it to consistently meet DERM discharge requirements.

1) We would need to install 40,000 litres of primary treatment plus 20,000 litres of balance control complete with shrouded timed macerator pumps and pump control. This process would take care of peak loads and allow separate primary treatment to take place. If these new tanks were set on a 300mm compacted pad (by others) there would be enough primary tank height to allow emergency overflow through the system. We could also claim that the raised pad was overflow protection bunding in the site based management report. (DERM prefer this)

2) The macerator pumps would shift a pre set amount of waste per hour to the existing aeration tank. We would make up frames and fix polymer directional baffles on to them and then hang these from supports into the tank. As previously explained these would give a far longer aeration retention time in the existing tank and also direct the flow through biological media packs we would fit between them. Hopefully most of this equipment can be made up in our factory and transported to site to be fitted.

3) We would also add a screen to the clarifier and final discharge ports plus run sludge return lines back to the primary tanks plus upgrade the discharge test port and chlorinator unit.

I have deleted the primary tank safety rails as well as the shade cloth cover above the existing tank and have simplified the aeration tank equipment as far as possible. We have also taken out any nutrient removal equipment and any provision for irrigation on-site in an effort to get costs down. I believe what is left is about the basic minimum to achieve the discharge requirements demanded by DERM.

Some time in the future when the existing steel tank is past repair it could be replaced by several concrete tanks and we would consider this when placing the new primary tanks. We need to site them in such a way as to be able to install at least one aeration tank before the steel unit was removed from site. I mention this because I remember you saying that you would like to move the new tanks up to within 500mm of the steel tank and fence the new system.

We have to consider that you will need to keep the park operational when the steel tank needs to come out and therefore need to allow room for at least one aeration tank with the others. This would keep things going while the steel tank was replaced. (You might eventually gain some room back at the northern end of the fenced area.)

The system price I quote does not include any monthly maintenance by Eco Water as I see you already have people doing this and they could be shown how to carry this on with our system. Our price does include a full operational manual as well as a maintenance schedule for daily, weekly and monthly routine servicing. I would also write up a full site based management document to keep DERM happy.

The new system would carry a warranty on any equipment we supplied or fitted and we would work with you to make sure that the discharge complies with requirements. We would give you a drawing showing the pad requirements and dimensions, you would need to supply for the new tanks. You would also need to arrange for a pump truck to transfer about 50% of the aeration tank contents into our new primary tanks when they were installed. This would give them a start and allow us to see to place the new directional baffles and media packs in the aeration tank. It shouldn't cost too much as you don't need to pay to transport it or treat it at council works. The only other thing we need from you is for your electrician to power up our control box from a supply in your existing control box.

If you accept our price we would require 30% deposit with a written order to proceed. This will allow us to assemble all needed materials and components and manufacture the system. I will also supply the site based management plan at this stage. We require a further 60% payment when all tanks have been modified and aeration equipment manufactured and ready to install (all components can be inspected at this stage.) The final 10% payment is due within 30 days of the completion of this job and when it has been left in good operating condition.

We could supply all of the above for the sum of £44,710 (c) Business/commercial/professional/financial affairs not exclusive.

Regards

John Ross



6 July 2010
Ref 2366

Caboolture Van Park
Attn: Mr. Murray Woolnough

Murray,

After visiting your tourist park and inspecting the existing wastewater treatment system, I have a full appreciation of what work would need to be carried out, to upgrade the unit, to comply with the discharge licence requirements provided.

Having spoken to your new manager and inspected the current service reports I am confident that the plant is being looked after and any emergency can be dealt with, however it is important that this upgrade work be carried out in the near future. have outlined the scope of the work and costings for this work in a separate document for your perusal.

Upon acceptance of our proposal and with regard to the new system, we will also compile a site based management plan relating to the new plant as quickly as possible. This would involve some staff training and awareness as well as full emergency spill provisions. The new facility would be provided with scheduled routine servicing and have the backup of our company at all times. Final discharge quality of treated water will easily comply with discharge licence criteria as inspected.

If I can provide further information please contact me.

Regards

sch4p4(6) Personal information

John Ross
Principal Eco Water Holdings Pty Ltd



6 July 2010
Ref 2367

Murray,

I have read in detail the EPA discharge licence applicable to your caravan park site and in particular its specified levels of BOD, Suspended Solids and faecal coliform permitted to be discharged.

These are as follows ;

BOD	maximum 40 mg/L
Suspended Solids	maximum 60 mg /L
Faecal Coliform	maximum 4000 organisms / 100ml
DO (dissolved oxygen)	must be a minimum of 2.0 mg /L
PH	must be between 6.5 and 8.5
Chlorine residual	must not exceed 0.7 mg /L maximum

There are **NO** contractual obligations in your original agreement document that put limits upon the levels of Nitrogen or Phosphorous discharged.

The existing treatment unit has no in-built provision for nutrient removal and at the time of its installation this was probably not an issue. This is why recent tests for these nutrients show high levels of these nutrients. I would suggest that there is perhaps no legal requirement to upgrade the plant to reduce these elements unless this has been agreed to at a previous time. Even in the latest correspondence from DERM they again include your discharge requirements but NO N or P levels. There is a document dated March 2007 showing water quality **objectives** for Caboolture River (these are **not** EPA legislated requirements as far as I understand.)

What I am suggesting is that you only need at this point in time to comply with the original discharge quality of your licence. Perhaps this should be clarified at some stage with DERM. I would have expected that there should have been some notification agreement to any change of licence and some correspondence to document this agreement.

To add infrastructure to the proposed plant upgrade to reduce Nitrogen (N) and Phosphorous (P) to the levels suggested would add considerably more to the project in cost.
Page (2) of the compliance inspection report (item 2 number 6) mentions development based strategies to improve water qualities. I would have thought that this is what the upgrade work you are proceeding with would be categorised as.

It would be interesting to know if the Caboolture Shires discharge from both their Uhlman Rd and main sewage works near you, comply with the Nitrogen & Phosphorous they mention in the report.

Regards

John

Eco Water Holdings Pty Ltd.

ABN: 64 116996091

44 Telford St Virginia Qld 4014

Ph (07) 3865 3775

Fax (07) 3216 5243

email: ecowaterhol@gmail.com

Free Call: 1800 607 695

Ph International +61 7 3865 3775

DL Documents

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Release

EPRO AUSTRALIA PTY LTD

P.O. BOX 8195
MAROOCHYDORE DC QLD 4558
Ph 07 5479 2775 Fax 07 5479 2795
ABN: 44 111 726 044

Tax Invoice

Invoice No. 00001539
Date: 30/11/2010

Bill To:

Roofley Pty Ltd
P.O. Box 584
Deception Bay
QLD 4508

	Purchase Order Number	Terms: Net 14 Days
Description		Amount
Caboolture Caravan Park STP Works Completed to 30/11/2010 Supplied and Installed Electrical Controls in STP Control Board for 2 x 1.1 KW 3 Phase Pumps in New Balance Tanks		
<div>RTI DL RELEASE - EHP</div> <div>PAID 13/12/10 6077387.1</div>		
Remittance by Direct Deposit would be appreciated. Account Details: BSB 484-799 A/C 002751410	Total Ex GST:	
Note: All Goods and Services remain the property of Epro Australia Pty Ltd until invoices are paid in full. Any outstanding invoices may incur a interest charge at the rate of 18%. This interest will be charged monthly on overdue accounts	GST:	
	Balance Due:	



PAID

8/12/10

69419731

AQUATEC-MAXCON PTY LTD

A.B.N. 45 002 250 482

119 Toongarra Road (PO Box 455)
Ipswich Queensland 4305 Australia

Telephone: 07 3813 7100

Facsimile: 07 3813 7199

TAX INVOICE

ROOFLEY PTY LTD T/A CABOOLTURE CARAVAN PARK BRIBIE ISLAND ROAD CABOOLTURE QLD 4510	TAX INVOICE NO: 18824 DATE: 06.12.10 JOB NO: S/O CLIENT REF: CAB102 CONTRACT ENG: S PETTIT ORDER NO: VERBAL TERMS: CASH SALE
---	--

QTY	DESCRIPTION	TOTAL
2	TYPE A NOSE BOX	\$ -
12	ELASTOX T DELT 132	\$ -
24	COPA SAC LGS-46	\$ -
Sub Total		
Plus 10% GST		
Total (including GST)		

sch4p4(7)(1)(c) Business/commercial/professional/financial affairs

NO STATEMENT ISSUED PLEASE PAY ON INVOICE

Any costs associated in the recovery of invoices outside of our trading terms will become your liability. This will include Debt Collection fees at the rate of 28% of the outstanding amount, plus GST.

Bank Account Details:

Account Name: Aquatec-Maxcon Pty Ltd
Bank: Westpac Banking Corp - Ipswich. Qld. Aust. 4305.
Swift Code: WPACAU2S
BSB: 034 189
Account No: 19 3429

FILTRATION AUSTRALIA

136 parsons road wolvi
Qld 4570
Phone 0412715440
Email peter@filtrationaustralia.com

Abn 35268943726

INVOICE

INVOICE 00323
DATE: NOVEMBER 19, 2010

ROOFLEY PTY LTD
WOOLNOUGH TRADING TRUST

CABOULTURE C/PARK
RECTIFICATION STP

Order verbal murray

DESCRIPTION	HOURS	RATE	AMOUNT
SUPPLY 2 OF 3 PHASE SUBMERCIBLE TRANSFER PUMPS DISTRIBUTOR WHITE INTERNATIONAL MODEL ZEN-DGBLUEP150/2/G50VT POWER 3 PHASE 1.1KW WEIGHT 23KGS BANK DETAILS BSB 124187 ACC# 20967152	2	sch4p4(7)(1)(c) Business/commercial/professional/financial affairs	
TOTAL			

Make all checks payable to [Your Company Name]

Total due in 15 days. Overdue accounts subject to a service charge of 1% per month.

Unitywater Laboratory - Moreton Bay

67 Weier Rd, Morayfield
P.O. Box 953 Caboolture Qld 4510
Phone: (07) 5420 0720
Fax: (07) 5420 0716
E-mail: labstaff@unitywater.com



NATA Accredited Laboratory
Number 14414

NATA ENDORSED TEST REPORT

This document shall not be reproduced except in full. This laboratory is accredited by the National Association of Testing Authorities, Australia. The tests reported herein have been performed in accordance with its scope of accreditation.

REPORT NUMBER: UMB110020 - 00

Final Report

ISSUE DATE: 11/01/11

REGISTRATION DETAILS

JOB DESCRIPTION: Caboolture Caravan Park
JOB REFERENCE: UMB110020
REGISTRATION DATE: 5/01/2011
SAMPLE DATE: 5/01/2011

CUSTOMER DETAILS

NAME: Caboolture Caravan Park
ADDRESS: 26 Burnett Road
Caboolture QLD 4510

Signatories:

sch4p4(6) Personal information

D. Hadfield
Microbiologist

sch4p4(6) Personal information

K. Holmes
Assistant Chemist

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted.

Analyte		Method	LOR	Units	Caboolture Caravan Park 5/01/2011 10:40
Free Chlorine	C	TM04	0.1	mg/L	<0.1
pH	-	TM15A	1	pHU	7.86
Conductivity	C	TM07A	1	uS/cm	455
Dissolved Oxygen	C	TM08A	1	mg/L	7.01
Turbidity	-	TM21A	1	NTU	31
BOD	C	TM02	3	mg/L	>33
COD	C	TM43	10	mg/L	110
Suspended Solids	C	TM12	2	mg/L	52

Analyte		Method	LOR	Units	Caboolture Caravan Park 5/01/2011 10:40
Ammonia N	C	TM22F	0.02	mg/L	13.8
NOx	C	TM23F	0.02	mg/L	2.36
TKN	C	TM26F	0.5	mg/L	20.4
TKP	C	TM16TKP	0.02	mg/L	3.76
Organic N	C	TM25F	0.5	mg/L	6.6
Total Nitrogen	C	TM25F	0.5	mg/L	22.8

Analyte		Method	LOR	Units	CCP Faecal 1 5/01/2011 08:00	CCP Faecal 2 5/01/2011 08:30	CCP Faecal 3 5/01/2011 09:00	CCP Faecal 4 5/01/2011 09:30	CCP Faecal 5 5/01/2011 10:00
Faecal Coliforms	M	MM002	1	cfu/100mL	>10,000	>10,000	>10,000	>10,000	>10,000

Attachment/s:

Abbreviations:

C indicates that NATA Chemical Accreditation is held for the test.

M indicates that NATA Microbiological Accreditation is held for the test.

- indicates NATA accreditation is not held for the test.

E indicates the test was performed by an external laboratory (refer to attachment/s).

LOR: Limit of Reporting; NT: Not tested; ND: Not detected; NS: No sample; NA: Not assigned, test not requested;

Bold: Result is outside acceptance limits.

The laboratory welcomes your feedback on our performance. Please send your comments to bob.sheedy@unitywater.com

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 Phone: (07) 5420 0720
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REPORT NUMBER: UMB110218 - 00

Final Report
ISSUE DATE: 9/02/11

REGISTRATION DETAILS

JOB DESCRIPTION: Caboolture Caravan Park
JOB REFERENCE: UMB110218
REGISTRATION DATE: 2/02/2011
SAMPLE DATE: 2/02/2011

CUSTOMER DETAILS

NAME: Caboolture Caravan Park
ADDRESS: 26 Burnett Road
 Caboolture QLD 4510

Signatories:

sch4p4(6) Personal information

D. Hadfield
 Microbiologist

sch4p4(6) Personal information

K. Holmes
 Assistant Chemist

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted.

Analyte		Method	LOR	Units	Caboolture Caravan Park 2/02/2011 10:20
Free Chlorine	C	TM04	0.1	mg/L	0.3
pH	-	TM15A	1	pHU	7.85
nductivity	C	TM07A	1	µS/cm	421
Dissolved Oxygen	C	TM08A	1	mg/L	7.59
Turbidity	-	TM21A	1	NTU	23
BOD	C	TM02	3	mg/L	<3
COD	C	TM43	10	mg/L	24
Suspended Solids	C	TM12	2	mg/L	32

Analyte		Method	LOR	Units	Caboolture Caravan Park 2/02/2011 10:20
Ammonia N	C	TM22F	0.02	mg/L	0.70
NOx	C	TM23F	0.02	mg/L	1.60
TKN	C	TM26F	0.5	mg/L	2.3
TKP	C	TM16TKP	0.02	mg/L	1.21
Organic N	C	TM25F	0.5	mg/L	1.6
Total Nitrogen	C	TM25F	0.5	mg/L	3.9

Analyte		Method	LOR	Units	CCP Faecal 1 2/02/2011 08:00	CCP Faecal 2 2/02/2011 08:30	CCP Faecal 3 2/02/2011 09:00	CCP Faecal 4 2/02/2011 09:30	CCP Faecal 5 2/02/2011 10:00
Faecal Coliforms	M	MM002	1	cfu/100mL	<10	<10	<10	<10	<10

Attachment/s:

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RTI DL RELEASE - EHP



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REPORT NUMBER: UMB110458 - 00

Final Report
ISSUE DATE: 9/03/11

REGISTRATION DETAILS

JOB DESCRIPTION: Caboolture Caravan Park
JOB REFERENCE: UMB110458
REGISTRATION DATE: 2/03/2011
SAMPLE DATE: 2/03/2011

CUSTOMER DETAILS

NAME: Caboolture Caravan Park
ADDRESS: 26 Burnett Road
Caboolture QLD 4510

Signatories:

sch4p4(6) Personal information sch4p4(6) Personal information

D. Hadfield
Biological Signatory

N. Heeney
Chemical Signatory

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted.

Analyte		Method	LOR	Units	Caboolture Caravan Park 2/03/2011 11:10
Free Chlorine	C	TM04	0.1	mg/L	1.3
pH	-	TM15A	1	pHU	7.95
Conductivity	C	TM07A	1	µS/cm	853
Dissolved Oxygen	C	TM08A	1	mg/L	7.75
Turbidity	-	TM21A	1	NTU	61
BOD	C	TM02	3	mg/L	3
COD	C	TM43	10	mg/L	144
Suspended Solids	C	TM12	2	mg/L	25

Analyte		Method	LOR	Units	Caboolture Caravan Park 2/03/2011 11:10
Ammonia N	C	TM22F	0.02	mg/L	31.6
NOx	C	TM23F	0.02	mg/L	0.79
TKN	C	TM26F	0.5	mg/L	35.9
TKP	C	TM16TKP	0.02	mg/L	6.12
Organic N	C	TM25F	0.5	mg/L	4.3
Total Nitrogen	C	TM25F	0.5	mg/L	36.7

0.02

1.0

0.42

0.5

Analyte		Method	LOR	Units	CCP Faecal 1 2/03/2011 08:00	CCP Faecal 2 2/03/2011 08:30	CCP Faecal 3 2/03/2011 09:00	CCP Faecal 4 2/03/2011 09:30	CCP Faecal 5 2/03/2011 10:00
Faecal Coliforms	M	MM002	1	cfu/100mL	<10	<10	<10	<10	<10

Attachment/s:

Abbreviations:

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Bold: Result is outside acceptance limits.

The laboratory welcomes your feedback on our performance. Please send your comments to bob.sheedy@unitywater.com

RTI DL RELEASE - EHP

19 April 2011

Department of Environment & Resource Management
C/- John Harden
PO Box 1080
CABOOLTURE QLD 4510

File No:

BNT2011/374

C1884382

19-Apr-2011



Dear Mr Harden,

RE: March effluent quality results – Development Approval No. IPDE00921208

Below is a summary of the Water Quality Analysis for March and April, as well as a second test for April (at our request):

Analyte	Permit Limit	02Mar11	06Apr11	13Apr11
Free Chlorine	<0.7	1.3	0.1	0.2
pH	6.5 - 8.5	7.95	6.87	7.67
Conductivity		858	456	515
Dissolved Oxygen	>2	7.75	7.49	11.36
Turbidity		61	24	33
BOD	<40	3	20	3
COD		144	61	83
Suspended Solids	<60	25	24	25
Ammonia N		31.6	6.1	15.6
Nox		0.79	4.42	2.21
TKN		35.9	10	18.5
TKP	<1	6.12	3.87	4.75
Organic N		4.3	3.9	2.9
Total Nitrogen		36.7	14.4	20.7
Faecal Coliforms	<1000	10	10000	2010

We have engaged the services of Filtration Australia and Suncoast Advanced Waste Water Treatment to rectify the current deficiencies within the Sequencing Batch Reactor (SBR) plant.

This progress has been hindered by weather and suppliers. We acknowledge we have been having compliance issues due to bad weather, installing and stabilizing the new hardware that has been required to make the system compliant. The recent bacterial failure was due to us removing chlorine as the disinfection agent, as we realize this product is detrimental to the environment at the point of discharge. We encountered a small window of failure while decommissioning and commissioning the new system. Large volumes of storm water egress, due to underground pipe work failures which also destabilize the SBR, have also just been rectified.

Release

Following is a list of actions taken to improve the results of the Sewerage Treatment Plant:

Date	Action	Third Party	Cost
08Jun08	Commenced ownership of Caboolture Caravan Park.		
12Mar09	Conduct safety review / report of STP	NSCA (National Safety Council of Australia)	
28May09	First meeting to discuss options for STP; specifically the viability of connect to town sewer.	Michael Ryan & Martin Dore (MBRC)	
26Jun09	Purchase back-up pump for sub-station	BAS Pumps	
03Jul09	Build new gantry and stairs for STP (outcome of safety review)	Metro Steel	
29Oct09	Investigated using treated water on the caravan park's gardens and/or neighbouring paddock.	Rachael Wood (DERM)	
29Jan10	Spray painted the STP to protect steel from rusting	JA & MN McGuinness	
17May10	Meeting to discuss STP operation and alternatives.	Trina Seitz (DERM)	
May 2010	Commenced process of employing an external party to: 1. Review the operation of the STP 2. Add / change processes where appropriate 3. Draft SBMP 4. Provide ongoing maintenance	1. Simmonds & Bristow 2. EcoWater 3. Filtration Australia	
01Jun10	Meeting to discuss water sample testing method: -> Confirm testing point -> 5 sample testing for Faecal Coliforms	Peter Lees & Neville Remington (MBRC)	
28Jul10	Company appointed to review STP operations.	Filtration Australia	
24Aug10	Completion of drawings of STP works required. Payment of first instalment.	Filtration Australia	
20Sep10	Deliver of two (2) new 23,000L concrete tanks (balance tanks)	Allcast Precast	
21Oct10	Delivery of new 5,000L tank (final contact tank).	QTank	
19Nov10	Purchase 2 additional 1.1KW submersible pumps	Filtration Australia	
30Nov10	Install additional STP components -> Electrical controls in STP control board -> Connect pumps in new balance tanks	Epro Australia sch4p4(7)(1)(c) Business/commercial/professional/financial	
Nov – Dec10	Consulting with Epro Australia, plumber and proprietor (20.5hr billed)	Filtration Australia	
08Dec10	Install additional STP components: -> Elastox air diffuser -> Copasac -> Nose Box	Aquatec-Maxcon	
16Dec10	Install additional STP components: -> Install motor valve -> Pipework for motor valve	Filtration Australia	
23Dec10	Install additional STP components -> Programmable Logic Controller (PLC)	Epro Australia	
Dec10 – Jan11	Eliminate rainwater in sewer lines -> Raise ORG's and IO's -> Additional guttering -> Raise manholes and rebench	Big Mal's Plumbing Service	
31Jan11	Install additional STP components -> Working Level Cable Float in Balance Tanks for pump control -> Cable float in Aeration Tank for Level Control of Decant Valve	Epro Australia	
11Feb11	Install additional STP components -> Auto dosing PH/Chlorine controller	Filtration Australia	
28Feb11	Install additional STP components -> DO analyser -> Remote fault alarm system	Epro Australia	
23Mar11	Install additional STP components -> Cabling for Flow Meters, Float in Balance Tank, Tank High Level Shut Down of Pump Well -> Automated Valve for Sludge Removal -> DO Analyser probe – with Blower control	Epro Australia	
05Apr11	Camera probe in inspect sewer lines to confirm egress of water	Big Mal's Plumbing Service Orbital Underground	

12Apr11	Meeting with new consultant to review STP processes: -> Change point where flocking agent is added -> Modification of pathogen barrier control	Suncoast Advanced Wastewater
12Apr11	Meeting with engineer to review hydraulic engineering requirements to connect to council sewer	ENG Consultants P/L
13Apr11	Installed new concrete tank for collection point; to reduce water egress	Big Mals Plumbing Service Betta Earthmoving Swan Plumbing
18Apr11	Delivery of new 5,000L tank for injection of flocking agent.	Professional Landscape Supplies
Mar09 –Apr11	Total spend to improve STP performance	

*Note: these costs do not include labour of wage employees of Roofley Pty Ltd. We estimate the cost to our wage earning Carpenters and Plumbers Business commercial/professional/financial affairs

We are now confident the system has the capacity to produce the required effluent quality. Further, the attached letter from Filtration Australia to substantiate the actions we are taking.

Yours sincerely,

sch4p4(6) Personal information

Murray Woolnough
Director
Roofley Pty Ltd

RTI DL RELEASE - EHP

136 Parsons Road Coondoo
Queensland 4570

sch 404 (6) Personal information

Office: 07/54867943

peter@filtrationaustralia.comCABOOLTURE CARAVAN PARK
26 BURNETT STREET
CABOOLTURE QLD 4510

RE: STATUS REPORT OF SBR PLANT 19/4/11

Modifications have been in progress for some months to enable the existing plant to produce effluent of the required quality as per the licence. This work has been hindered by unseasonably bad weather. This weather has not only affected the installation of the required hardware, but also the ingress of stormwater from continual flooding which has upset the balance of the biomass. No doubt you are aware of this, as council plants have experienced the same problems.

The procurement of activated sludge (from Moreton Bay Regional Council, Uhlmann Road sewerage treatment plant) to rectify the imbalance has taken some time due to upgrade works within their plant, as well as them also trying to rebalance their systems. We also acknowledge the recent non compliance for faecal coliforms, this was due to the transition of equipment in the updating of the pathogen control barrier. The TKP reading is also over as we are now fitting new hardware to deal with this.

We have also brought in as a consultant Ray Burcher from Suncoast Advanced Wastewater (Domestic & Commercial Wastewater Treatment) who has assessed the Caboolture Caravan Park SBR and agrees the system, with the above mentioned hardware, will now have the capacity to produce the required discharge effluent as per the licence.

Peter Stuart
Design engineer



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REPORT NUMBER: UMB110789 - 00

Final Report
ISSUE DATE: 19/04/11

REGISTRATION DETAILS

JOB DESCRIPTION: Caboolture Caravan Park
JOB REFERENCE: UMB110789
REGISTRATION DATE: 13/04/2011
SAMPLE DATE: 13/04/2011

CUSTOMER DETAILS

NAME: Caboolture Caravan Park
ADDRESS: 26 Burnett Road
Caboolture QLD 4510

Signatories:

sch4p4(6) Personal information

D. Hadfield
Biological Signatory

sch4p4(6) Personal information

K. Holmes
Chemical Signatory

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted.

Analyte		Method	LOR	Units	Caboolture Caravan Park 13/04/2011 11:30
Free Chlorine	C	TM04	0.1	mg/L	0.2
pH	-	TM15A	1	pHU	7.67
Conductivity	-	TM07A	1	µS/cm	515
Dissolved Oxygen	-	TM08A	1	mg/L	11.36
Turbidity	-	TM21A	1	NTU	33
BOD	C	TM02	3	mg/L	<3
COD	C	TM43	10	mg/L	83
Suspended Solids	C	TM12	2	mg/L	25

Analyte		Method	LOR	Units	Caboolture Caravan Park 13/04/2011 11:30
Ammonia N	C	TM22F	0.02	mg/L	15.6
NOx	C	TM23F	0.02	mg/L	2.21
TKN	C	TM26F	0.5	mg/L	18.5
TKP	C	TM16TKP	0.02	mg/L	4.75
Organic N	C	TM25F	0.5	mg/L	2.9
Total Nitrogen	C	TM25F	0.5	mg/L	20.7

10.02
0.6

1.0

0.5

Analyte		Method	LOR	Units	CCP Faecal 1 13/04/2011 08:00	CCP Faecal 2 13/04/2011 08:30	CCP Faecal 3 13/04/2011 09:00	CCP Faecal 4 13/04/2011 09:30	CCP Faecal 5 13/04/2011 10:00
Faecal Coliforms	M	MM002	1	cfu/100mL	10	10	20	20	10

Attachment/s:

Abbreviations:

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M indicates that NATA Biological Accreditation is held for the test.

- indicates NATA accreditation is not held for the test.

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LOR: Limit of Reporting; NT: Not tested; ND: Not detected; NS: No sample; NA: Not assigned; test not requested; NR: Not Reported

Bold: Result is outside acceptance limits.

The laboratory welcomes your feedback on our performance. Please send your comments to bob.sheedy@unitywater.com

RTI DL RELEASE - EHP

Unitywater Laboratory - Moreton Bay

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REPORT NUMBER: UMB110737 - 00

Final Report
ISSUE DATE: 11/04/11

REGISTRATION DETAILS

JOB DESCRIPTION: Caboolture Caravan Park
JOB REFERENCE: UMB110737
REGISTRATION DATE: 6/04/2011
SAMPLE DATE: 6/04/2011

CUSTOMER DETAILS

NAME: Caboolture Caravan Park
ADDRESS: 26 Burnett Road
Caboolture QLD 4510

Signatories:

sch4p4(6) Personal information

D. Hadfield
Biological Signatory

sch4p4(6) Personal information

M. Scott
Chemical Signatory

sch4p4(6) Personal information

T. Hungerford
Chemical Signatory

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted.

Analyte		Method	LOR	Units	Caboolture Caravan Park 06/04/2011 10:40
Free Chlorine	C	TM04	0.1	mg/L	<0.1
pH	-	TM15A	1	pHU	6.87
Conductivity	C	TM07A	1	µS/cm	456
Dissolved Oxygen	C	TM08A	1	mg/L	7.49
Turbidity	-	TM21A	1	NTU	24
BOD	C	TM02	3	mg/L	20
COD	C	TM43	10	mg/L	61
Suspended Solids	C	TM12	2	mg/L	24

Analyte		Method	LOR	Units	Caboolture Caravan Park 06/04/2011 10:40
Ammonia N	C	TM22F	0.02	mg/L	6.1
NOx	C	TM23F	0.02	mg/L	4.42
TKN	C	TM26F	0.5	mg/L	10
TKP	C	TM16TKP	0.02	mg/L	3.87
Organic N	C	TM25F	0.5	mg/L	3.9
Total Nitrogen	C	TM25F	0.5	mg/L	14.4

Analyte		Method	LOR	Units	CCP Faecal 1 06/04/2011 08:00	CCP Faecal 2 06/04/2011 08:30	CCP Faecal 3 06/04/2011 09:00	CCP Faecal 4 06/04/2011 09:30	CCP Faecal 5 06/04/2011 10:00
Faecal Coliforms	M	MM002	1	cfu/100mL	>10,000	>10,000	>10,000	>10,000	>10,000

Attachment/s:

Abbreviations:

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M indicates that NATA Biological Accreditation is held for the test.

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Bold: Result is outside acceptance limits.

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REPORT NUMBER: UMB110458 - 00

Final Report

ISSUE DATE: 9/03/11

REGISTRATION DETAILS

JOB DESCRIPTION: Caboolture Caravan Park
JOB REFERENCE: UMB110458
REGISTRATION DATE: 2/03/2011
SAMPLE DATE: 2/03/2011

CUSTOMER DETAILS

NAME: Caboolture Caravan Park
ADDRESS: 26 Burnett Road
Caboolture QLD 4510

Signatories:

sch4p4(6) Personal information sch4p4(6) Personal information

D. Hadfield
Biological Signatory

N. Heeney
Chemical Signatory

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted.

Analyte		Method	LOR	Units	Caboolture Caravan Park 2/03/2011 11:10
Free Chlorine	C	TM04	0.1	mg/L	1.3
pH	-	TM15A	1	pHU	7.95
nductivity	C	TM07A	1	µS/cm	853
Dissolved Oxygen	C	TM08A	1	mg/L	7.75
Turbidity	-	TM21A	1	NTU	61
BOD	C	TM02	3	mg/L	3
COD	C	TM43	10	mg/L	144
Suspended Solids	C	TM12	2	mg/L	25

Analyte		Method	LOR	Units	Caboolture Caravan Park 2/03/2011 11:10
Ammonia N	C	TM22F	0.02	mg/L	31.6
NOx	C	TM23F	0.02	mg/L	0.79
TKN	C	TM26F	0.5	mg/L	35.9
TKP	C	TM16TKP	0.02	mg/L	6.12
Organic N	C	TM25F	0.5	mg/L	4.3
Total Nitrogen	C	TM25F	0.5	mg/L	36.7

Analyte		Method	LOR	Units	CCP Faecal 1 2/03/2011 08:00	CCP Faecal 2 2/03/2011 08:30	CCP Faecal 3 2/03/2011 09:00	CCP Faecal 4 2/03/2011 09:30	CCP Faecal 5 2/03/2011 10:00
Faecal Coliforms	M	MM002	1	cfu/100mL	<10	<10	<10	<10	<10

Attachment/s:

Abbreviations:

C indicates that NATA Chemical Accreditation is held for the test.

M indicates that NATA Biological Accreditation is held for the test.

- indicates NATA accreditation is not held for the test.

E indicates the test was performed by an external laboratory (refer to attachment/s).

LOR: Limit of Reporting; NT: Not tested; ND: Not detected; NS: No sample; NA: Not assigned, test not requested;

Bold: Result is outside acceptance limits.

The laboratory welcomes your feedback on our performance. Please send your comments to bob.sheedy@unitywater.com

Clarke Jenny

From: Hamish Baird [roofleyptyltd@exemail.com.au]
Sent: Wednesday, 18 May 2011 1:43 PM
To: Clarke Jenny
Cc: murray@roofley.com
Subject: Fw: Lab report Caboolture Caravan Park
Attachments: Test Results - 20110504.pdf; Test Results - 20110511.pdf

Jenny,

Please find attached test results from testing dates 4 May 2011 and 11 May 2011.

Filtration Australia have advised us:

1. The Faecal Coliforms reading for 4 May 2011 was because the newly fitted ultraviolet mechanism was found to have a broken thimble. The manufacturer has now replaced the faulty device with a new one. The results of the follow-up test on 11 May 2011 indicate faecal coliform readings of <10.
2. The TKP reading is being addressed with the introduction of more flocculant (i.e. polyaluminium chloride). This is to be an introduced chemical process and not a biological one.

Regards,

Hamish Baird
 Operations Manager
 Roofley Pty Ltd

PO Box 584, Deception Bay QLD 4508
 P 07 3203 2032

sch4 (6) Personal information
 F 07 3293 2315

Caboolture Caravan Park - Endeavour Caravan Park - Four Star Caravan Park

----- Original Message -----

From: Bob Sheedy
To: roofleyptyltd@exemail.com.au
Sent: Tuesday, May 17, 2011 7:26 AM
Subject: Lab report Caboolture Caravan Park

Bob Sheedy | Manager Scientific Services

For Chief Executive Officer

Unitywater

Infrastructure Services Division

67a Weier Rd Morayfield Qld 4506

t: 07 5420 0719 sch4 (6) Personal information

e: bob.sheedy@unitywater.com

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Information from ESET NOD32 Antivirus, version of virus signature database 6127
(20110516)

The message was checked by ESET NOD32 Antivirus.

<http://www.eset.com>

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Unitywater Laboratory - Moreton Bay
 67 Weier Rd, Morayfield
 P.O. Box 953 Caboolture Qld 4510
 Phone: (07) 5420 0720
 Fax: (07) 5420 0716
 E-mail: labstaff@unitywater.com

NATA Accredited Laboratory
 Number 14414

NATA ENDORSED TEST REPORT

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REPORT NUMBER: UMB110926 - 01

Final Report
ISSUE DATE: 11/05/11

REGISTRATION DETAILS

JOB DESCRIPTION: Caboolture Caravan Park
JOB REFERENCE: UMB110926
REGISTRATION DATE: 4/05/2011
SAMPLE DATE: 4/05/2011

CUSTOMER DETAILS

NAME: Caboolture Caravan Park
ADDRESS: 26 Burnett Road
 Caboolture QLD 4510

Signatories:

sch4p4(6) Personal information

D. Hadfield
 Biological Signatory

sch4p4(6) Personal information

M. Scott
 Chemical Signatory

sch4p4(6) Personal information

T. Hungerford
 Chemical Signatory

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted.

Analyte		Method	LOR	Units	Caboolture Caravan Park 4/05/2011
Free Chlorine	C	TM04	0.1	mg/L	<0.1
pH	-	TM15A	1	pHU	7.24
Conductivity	-	TM07A	1	µS/cm	439
Dissolved Oxygen	-	TM08A	1	mg/L	9.58
Turbidity	-	TM21A	1	NTU	29
BOD	C	TM02	3	mg/L	3
COD	C	TM43	10	mg/L	61
Suspended Solids	C	TM12	2	mg/L	23

Analyte		Method	LOR	Units	Caboolture Caravan Park 4/05/2011
Ammonia N	C	TM22F	0.02	mg/L	<0.5
NOx	C	TM23F	0.02	mg/L	10.7
TKN	C	TM26F	0.5	mg/L	4.4
TKP	C	TM16TKP	0.02	mg/L	4.14
Organic N	C	TM25F	0.5	mg/L	4.4
Total Nitrogen	C	TM25F	0.5	mg/L	15.1

Analyte		Method	LOR	Units	CCP Faecal 1 4/05/2011 08:00	CCP Faecal 2 4/05/2011 08:30	CCP Faecal 3 4/05/2011 09:00	CCP Faecal 4 4/05/2011 09:30	CCP Faecal 5 4/05/2011 10:00
Faecal Coliforms	M	MM002	1	cfu/100mL	>10,000	>10,000	>10,000	>10,000	>10,000

Attachment/s:

Abbreviations:

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- indicates NATA accreditation is not held for the test.

E indicates the test was performed by an external laboratory (refer to attachment/s).

LOR: Limit of Reporting; NT: Not tested; ND: Not detected; NS: No sample; NA: Not assigned, test not requested; NR: Not Reported

Bold: Result is outside acceptance limits.

The laboratory welcomes your feedback on our performance. Please send your comments to bob.sheedy@unitywater.com

Unitywater Laboratory - Moreton Bay

67 Weier Rd, Morayfield
P.O. Box 953 Caboolture Qld 4510
Phone: (07) 5420 0720
Fax: (07) 5420 0716
E-mail: labstaff@unitywater.com



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Number 14414

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REPORT NUMBER: UMB110985 - 00

Final Report

ISSUE DATE: 17/05/11

REGISTRATION DETAILS

JOB DESCRIPTION: Caboolture Caravan Park
JOB REFERENCE: UMB110985
REGISTRATION DATE: 11/05/2011
SAMPLE DATE: 11/05/2011

CUSTOMER DETAILS

NAME: Caboolture Caravan Park
ADDRESS: 26 Burnett Road
Caboolture QLD 4510

Signatories:

sch4p4(6) Personal information

M. Scott
Chemical Signatory

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted.

Analyte		Method	LOR	Units	Caboolture Caravan Park 11/05/2011 10:45
Free Chlorine	C	TM04	0.1	mg/L	<0.1
pH	-	TM15A	1	pHU	7.25
Conductivity	-	TM07A	1	µS/cm	447
Dissolved Oxygen	-	TM08A	1	mg/L	9.66
Turbidity	-	TM21A	1	NTU	10
BOD	C	TM02	3	mg/L	5
COD	C	TM43	10	mg/L	51
Suspended Solids	C	TM12	2	mg/L	10

Analyte		Method	LOR	Units	Caboolture Caravan Park 11/05/2011 10:45
Ammonia N	C	TM22F	0.02	mg/L	<0.1
NOx	C	TM23F	0.02	mg/L	12.1
TKN	C	TM26F	0.5	mg/L	4.2
TKP	C	TM16TKP	0.02	mg/L	4.12
Organic N	C	TM25F	0.5	mg/L	4.2
Total Nitrogen	C	TM25F	0.5	mg/L	16.3

0.02

0.05

0.42

.5

Analyte		Method	LOR	Units	CCP Faecal 1 11/05/2011 08:00	CCP Faecal 2 11/05/2011 08:30	CCP Faecal 3 11/05/2011 09:00	CCP Faecal 4 11/05/2011 09:30	CCP Faecal 5 11/05/2011 10:00
Faecal Coliforms	M	MM002	1	cfu/100mL	<10	10	<10	<10	20

Attachment/s:

Abbreviations:

C indicates that NATA Chemical Accreditation is held for the test.**M** indicates that NATA Biological Accreditation is held for the test.- indicates NATA accreditation is **not** held for the test.**E** indicates the test was performed by an external laboratory (refer to attachment/s).

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Bold: Result is outside acceptance limits.The laboratory welcomes your feedback on our performance. Please send your comments to bob.sheedy@unitywater.com

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Unitywater Laboratory - Moreton Bay

67 Weier Rd, Morayfield
P.O. Box 953 Caboolture Qld 4510
Phone: (07) 5420 0720
Fax: (07) 5420 0716
E-mail: labstaff@unitywater.com

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REPORT NUMBER: UMB112222 - 00

Final Report

ISSUE DATE: 8/11/11

REGISTRATION DETAILS

JOB DESCRIPTION: Caboolture Caravan Park
JOB REFERENCE: UMB112222
REGISTRATION DATE: 2/11/2011
SAMPLE DATE: 2/11/2011

CUSTOMER DETAILS

NAME: Caboolture Caravan Park
ADDRESS: 26 Burnett Road
Caboolture QLD 4510

Signatories and Report Authorisation:

This document has been electronically signed by the authorised approver / signatory indicated below.

Electronic signing has been carried out in compliance with procedures specified in MQ007, CQ07 and CQ03.

Signatory / Approver Accreditation Category

Dawn Hadfield Biological
Nicholas Heeney Chemical

Mark Scott Chemical

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted.

Analyte		Method	LOR	Units	Caboolture Caravan Park 2/11/2011 11:40
Free Chlorine	C	TM04	0.1	mg/L	0.1 ✓
pH	-	TM15A	1	pHU	7.5 ✓
Conductivity	-	TM07A	1	µS/cm	582
Dissolved Oxygen	-	TM08A	1	mg/L	7.26 ✓
Turbidity	-	TM21A	1	NTU	8 ✓
BOD	C	TM02	3	mg/L	<3
COD	C	TM43	10	mg/L	36
Suspended Solids	C	TM12	2	mg/L	15 ✓

Analyte		Method	LOR	Units	Caboolture Caravan Park 2/11/2011 11:40
Ammonia N	C	TM22F	0.02	mg/L	2.5
NOx	C	TM23F	0.02	mg/L	0.38
TKN	C	TM26F	0.5	mg/L	5.0
TKP	C	TM16TKP	0.02	mg/L	7.93
Organic N	C	TM25F	0.5	mg/L	2.5
Total Nitrogen	C	TM25F	0.5	mg/L	5.4

(0.02) better than 0.01
(0.06)
High (Total P = 1.0 mg)
(0.42)
(0.5)

Analyte		Method	LOR	Units	CCP Faecal 1 2/11/2011 08:00	CCP Faecal 2 2/11/2011 08:30	CCP Faecal 3 2/11/2011 09:00	CCP Faecal 4 2/11/2011 09:30	CCP Faecal 5 2/11/2011 10:00
Faecal Coliforms	M	MM002	1	cfu/100mL	<10	<10	<10	<10	<10

Attachment/s:

Abbreviations:

C indicates that NATA Chemical Accreditation is held for the test.**M** indicates that NATA Biological Accreditation is held for the test.- indicates NATA accreditation is not held for the test.**E** indicates the test was performed by an external laboratory (refer to attachment/s).

LOR: Limit of Reporting; NT: Not tested; ND: Not detected; NS: No sample; NA: Not assigned, test not requested; NR: Not Reported

Bold: Result is outside acceptance limits.

The laboratory welcomes your feedback on our performance. Please send your comments to bob.sheedy@unitywater.com

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 67 Weier Rd, Morayfield
 P.O. Box 953 Caboolture Qld 4510
 Phone: (07) 5420 0720
 Fax: (07) 5420 0716
 E-mail: labstaff@unitywater.com

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REPORT NUMBER: UMB112003 - 00

Final Report

ISSUE DATE: 11/10/11

REGISTRATION DETAILS

JOB DESCRIPTION: Caboolture Caravan Park
JOB REFERENCE: UMB112003
REGISTRATION DATE: 5/10/2011
SAMPLE DATE: 5/10/2011

CUSTOMER DETAILS

NAME: Caboolture Caravan Park
ADDRESS: 26 Burnett Road
 Caboolture QLD 4510

Signatories and Report Authorisation:

This document has been electronically signed by the authorised approver / signatory indicated below.

Electronic signing has been carried out in compliance with procedures specified in MQ007, CQ07 and CQ03.

Signatory / Approver Accreditation Category

Dawn Hadfield Biological
 Nicholas Heeney Chemical

Mark Scott Chemical

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted.

Analyte		Method	LOR	Units	Caboolture Caravan Park 5/10/2011 10:55
Free Chlorine	C	TM04	0.1	mg/L	<0.1
pH	-	TM15A	1	pHU	7.5
Conductivity	-	TM07A	1	µS/cm	640
Dissolved Oxygen	-	TM08A	1	mg/L	6.14
Turbidity	-	TM21A	1	NTU	11
BOD	C	TM02	3	mg/L	NR
COD	C	TM43	10	mg/L	50
Suspended Solids	C	TM12	2	mg/L	19

✓
 ✓
 ✓
 ✓
 ? using hydrogen peroxide to
 disinfect?
 ✓
 RAD test shows O₂ increasing
 over 5 days.
 presence of oxidising agent.

Analyte		Method	LOR	Units	Caboolture Caravan Park 5/10/2011 10:55
Ammonia N	C	TM22F	0.02	mg/L	10.6
NOx	C	TM23F	0.02	mg/L	0.32
TKN	C	TM26F	0.5	mg/L	13.3
TKP	C	TM16TKP	0.02	mg/L	1.49
Organic N	C	TM25F	0.5	mg/L	2.7
Total Nitrogen	C	TM25F	0.5	mg/L	13.6

-02

-06

??

-42

-5

Total P1.0mg

Analyte		Method	LOR	Units	CCP Faecal 1 5/10/2011 08:00	CCP Faecal 2 5/10/2011 08:30	CCP Faecal 3 5/10/2011 09:00	CCP Faecal 4 5/10/2011 09:30	CCP Faecal 5 5/10/2011 10:00
Faecal Coliforms	M	MM002	1	cfu/100mL	<10	<10	<10	<10	<10

BOD5 not reported due to sample matrix interference

Attachment/s:

Abbreviations:

C indicates that NATA Chemical Accreditation is held for the test.**M** indicates that NATA Biological Accreditation is held for the test.- indicates NATA accreditation is not held for the test.**E** indicates the test was performed by an external laboratory (refer to attachment/s).

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Bold: Result is outside acceptance limits.

The laboratory welcomes your feedback on our performance. Please send your comments to bob.sheedy@unitywater.com

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Unitywater Laboratory - Moreton Bay

67 Weier Rd, Morayfield
P.O. Box 953 Caboolture Qld 4510
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Fax: (07) 5420 0716
E-mail: labstaff@unitywater.com

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REPORT NUMBER: UMB111816 - 01

Final Report

ISSUE DATE: 20/09/11

REGISTRATION DETAILS

JOB DESCRIPTION: Caboolture Caravan Park
JOB REFERENCE: UMB111816
REGISTRATION DATE: 7/09/2011
SAMPLE DATE: 07/09/2011

CUSTOMER DETAILS

NAME: Caboolture Caravan Park
ADDRESS: 26 Burnett Road
Caboolture QLD 4510

Signatories and Report Authorisation:

This document has been electronically signed by the authorised approver / signatory indicated below.

Electronic signing has been carried out in compliance with procedures specified in MQ007, CQ07 and CQ03.

Signatory / Approver Accreditation Category

Arlene Yarrow Biological

Arlene Yarrow Chemical

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted.

Analyte		Method	LOR	Units	Caboolture Caravan Park 07/09/2011 11:30	Caboolture Caravan Park Retest 15/09/2011 08:00
Free Chlorine	C	TM04	0.1	mg/L	<0.1 ✓	[NA]
	-	TM15A	1	pHU	7.4 ✓	[NA]
Conductivity	-	TM07A	1	µS/cm	564	[NA]
Dissolved Oxygen	-	TM08A	1	mg/L	8.78 ✓	[NA]
Turbidity	-	TM21A	1	NTU	20	[NA]
COD	C	TM43	10	mg/L	46	[NA]
Suspended Solids	C	TM12	2	mg/L	18 ✓	[NA]

* No BOD - sample problem.

Analyte		Method	LOR	Units	Caboolture Caravan Park 07/09/2011 11:30
Ammonia N	C	TM22F	0.02	mg/L	4.0 x
NOx	C	TM23F	0.02	mg/L	0.31 x
TKN	C	TM26F	0.5	mg/L	6.3
TKP	C	TM16TKP	0.02	mg/L	1.10 ✓
Organic N	C	TM25F	0.5	mg/L	2.3 x
Total Nitrogen	C	TM25F	0.5	mg/L	6.6 x

0.02

0.06

1.0

0.42

0.5

Analyte		Method	LOR	Units	CCP Faecal 1 07/09/2011 08:00	CCP Faecal 2 07/09/2011 08:30	CCP Faecal 3 07/09/2011 09:00	CCP Faecal 4 07/09/2011 09:30	CCP Faecal 5 07/09/2011 10:00
Faecal Coliforms	M	MM002	1	cfu/100mL	<1	<1	<1	<1	<1

BOD5 results not reported due to sample matrix interference.

Attachment/s:

Abbreviations:

C indicates that NATA Chemical Accreditation is held for the test.**M** indicates that NATA Biological Accreditation is held for the test.- indicates NATA accreditation is **not** held for the test.**E** indicates the test was performed by an external laboratory (refer to attachment/s).

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Bold: Result is outside acceptance limits.

The laboratory welcomes your feedback on our performance. Please send your comments to bob.sheedy@unitywater.com

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P.O. Box 953 Caboolture Qld 4510
Phone: (07) 5420 0720
Fax: (07) 5420 0716
E-mail: labstaff@unitywater.com



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REPORT NUMBER: UMB111563 - 00

Final Report

ISSUE DATE: 9/08/11

REGISTRATION DETAILS

JOB DESCRIPTION: Caboolture Caravan Park
JOB REFERENCE: UMB111563
REGISTRATION DATE: 3/08/2011
SAMPLE DATE: 3/08/2011

CUSTOMER DETAILS

NAME: Caboolture Caravan Park
ADDRESS: 26 Burnett Road
Caboolture QLD 4510

Signatories and Report Authorisation:

This document has been electronically signed by the authorised approver / signatory indicated below.

Electronic signing has been carried out in compliance with procedures specified in MQ007, CQ07 and CQ03.

Signatory / Approver Accreditation Category

Dawn Hadfield Biological

Kerry Holmes Chemical
Mark Scott Chemical

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted.

Analyte		Method	LOR	Units	Caboolture Caravan Park 3/08/2011 10:40
Free Chlorine	C	TM04	0.1	mg/L	<0.1
pH	-	TM15A	1	pHU	7.7
Conductivity	-	TM07A	1	µS/cm	614
Dissolved Oxygen	-	TM08A	1	mg/L	8.42
Turbidity	-	TM21A	1	NTU	3
BOD	C	TM02	3	mg/L	4
COD	C	TM43	10	mg/L	37
Suspended Solids	C	TM12	2	mg/L	<2

Analyte		Method	LOR	Units	Caboolture Caravan Park 3/08/2011 10:40
Ammonia N	C	TM22F	0.02	mg/L	1.80 X 0.02
NOx	C	TM23F	0.02	mg/L	0.66 X 0.06
TKN	C	TM26F	0.5	mg/L	4.9
TKP	C	TM16TKP	0.02	mg/L	7.41 X 1
Organic N	C	TM25F	0.5	mg/L	3.1 X 0.42
Total Nitrogen	C	TM25F	0.5	mg/L	5.6 X 0.5

Analyte		Method	LOR	Units	CCP Faecal 1 3/08/2011 08:00	CCP Faecal 2 3/08/2011 08:30	CCP Faecal 3 3/08/2011 09:00	CCP Faecal 4 3/08/2011 09:30	CCP Faecal 5 3/08/2011 10:00
Faecal Coliforms	M	MM002	1	cfu/100mL	<1	<10	<10	<10	<10

Attachment/s:

Abbreviations:

C indicates that NATA Chemical Accreditation is held for the test.

M indicates that NATA Biological Accreditation is held for the test.

- indicates NATA accreditation is not held for the test.

E indicates the test was performed by an external laboratory (refer to attachment/s).

LOR: Limit of Reporting; NT: Not tested; ND: Not detected; NS: No sample; NA: Not assigned, test not requested; NR: Not Reported

Bold: Result is outside acceptance limits.

The laboratory welcomes your feedback on our performance. Please send your comments to bob.sheedy@unitywater.com

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 67 Weier Rd, Morayfield
 P.O. Box 953 Caboolture Qld 4510
 Phone: (07) 5420 0720
 Fax: (07) 5420 0716
 E-mail: labstaff@unitywater.com

NATA Accredited Laboratory
 Number 14414

NATA ENDORSED TEST REPORT

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REPORT NUMBER: UMB111356 - 00

Final Report
ISSUE DATE: 12/07/11

REGISTRATION DETAILS

JOB DESCRIPTION: Caboolture Caravan Park
JOB REFERENCE: UMB111356
REGISTRATION DATE: 6/07/2011
SAMPLE DATE: 6/07/2011

CUSTOMER DETAILS

NAME: Caboolture Caravan Park
ADDRESS: 26 Burnett Road
 Caboolture QLD 4510

Signatories and Report Authorisation:

This document has been electronically signed by the authorised approver / signatory indicated below.

Electronic signing has been carried out in compliance with procedures specified in MQ007, CQ07 and CQ03.

Signatory / Approver *Accreditation Category*

Dawn Hadfield Biological

Mark Scott Chemical

Arlene Yarrow Chemical

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted.

Analyte		Method	LOR	Units	Caboolture Caravan Park 6/07/2011 11:30
Free Chlorine	C	TM04	0.1	mg/L	<0.1 ✓
pH	-	TM15A	1	pHU	6.9 ✓
Conductivity	-	TM07A	1	µS/cm	669
Dissolved Oxygen	-	TM08A	1	mg/L	10.17 ✓
Turbidity	-	TM21A	1	NTU	2
BOD	C	TM02	3	mg/L	<3 ✓
COD	C	TM43	10	mg/L	67
Suspended Solids	C	TM12	2	mg/L	2 ✓

Analyte		Method	LOR	Units	Caboolture Caravan Park 6/07/2011 11:30
Ammonia N	C	TM22F	0.02	mg/L	0.53 X .08
NOx	C	TM23F	0.02	mg/L	18.9 X .06
TKN	C	TM26F	0.5	mg/L	3.6
TKP	C	TM16TKP	0.02	mg/L	11.0 X 1
Organic N	C	TM25F	0.5	mg/L	3.1 X 0.42
Total Nitrogen	C	TM25F	0.5	mg/L	22.5 X 0.5

Analyte		Method	LOR	Units	CCP Faecal 1 6/07/2011 08:00	CCP Faecal 2 6/07/2011 08:30	CCP Faecal 3 6/07/2011 09:00	CCP Faecal 4 6/07/2011 09:30	CCP Faecal 5 6/07/2011 10:00
Faecal Coliforms	M	MM002	1	cfu/100mL	<1	<1	<1	<1	<1

Attachment/s:

Abbreviations:

C indicates that NATA Chemical Accreditation is held for the test.**M** indicates that NATA Biological Accreditation is held for the test.- indicates NATA accreditation is not held for the test.**E** indicates the test was performed by an external laboratory (refer to attachment/s).

LOR: Limit of Reporting; NT: Not tested; ND: Not detected; NS: No sample; NA: Not assigned, test not requested; NR: Not Reported

Bold: Result is outside acceptance limits.

The laboratory welcomes your feedback on our performance. Please send your comments to bob.sheedy@unitywater.com

RTI DL RELEASE - EHP

Unitywater Laboratory - Moreton Bay
 67 Weier Rd, Morayfield
 P.O. Box 953 Caboolture Qld 4510
 Phone: (07) 5420 0720
 Fax: (07) 5420 0716
 E-mail: labstaff@unitywater.com

NATA Accredited Laboratory
 Number 14414

NATA ENDORSED TEST REPORT

This document shall not be reproduced except in full. This laboratory is accredited by the National Association of Testing Authorities, Australia. The tests reported herein have been performed in accordance with its scope of accreditation.

REPORT NUMBER: UMB111122 - 00

Final Report
ISSUE DATE: 6/06/11

REGISTRATION DETAILS

JOB DESCRIPTION: Caboolture Caravan Park
JOB REFERENCE: UMB111122
REGISTRATION DATE: 1/06/2011
SAMPLE DATE: 1/06/2011

CUSTOMER DETAILS

NAME: Caboolture Caravan Park
ADDRESS: 26 Burnett Road
 Caboolture QLD 4510

Signatories:

sch4p4(6) Personal information sch4p4(6) Personal information
K. Holmes **M. Scott**
 Chemical Signatory Chemical Signatory

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted.

Analyte		Method	LOR	Units	Caboolture Caravan Park
Free Chlorine	C	TM04	0.1	mg/L	<0.1
pH	-	TM15A	1	pHU	7.0
Conductivity	-	TM07A	1	µS/cm	448
Dissolved Oxygen	-	TM08A	1	mg/L	9.31
idity	-	TM21A	1	NTU	9
BOD	C	TM02	3	mg/L	<3
COD	C	TM43	10	mg/L	70
Suspended Solids	C	TM12	2	mg/L	11

Analyte		Method	LOR	Units	Caboolture Caravan Park
Ammonia N	C	TM22F	0.02	mg/L	0.13
NOx	C	TM23F	0.02	mg/L	8.17
TKN	C	TM26F	0.5	mg/L	2.8
TKP	C	TM16TKP	0.02	mg/L	2.53
Organic N	C	TM25F	0.5	mg/L	2.7
Total Nitrogen	C	TM25F	0.5	mg/L	11.0

Analyte		Method	LOR	Units	CCP Faecal 1	CCP Faecal 2	CCP Faecal 3	CCP Faecal 4	CCP Faecal 5
Faecal Coliforms	M	MM002	1	cfu/100mL	<2	<2	<2	<10	<10

Attachment/s:

Abbreviations:

C indicates that NATA Chemical Accreditation is held for the test.

M indicates that NATA Biological Accreditation is held for the test.

- indicates NATA accreditation is not held for the test.

E indicates the test was performed by an external laboratory (refer to attachment/s).

LOR: Limit of Reporting; NT: Not tested; ND: Not detected; NS: No sample; NA: Not assigned, test not requested; NR: Not Reported

Bold: Result is outside acceptance limits.

The laboratory welcomes your feedback on our performance. Please send your comments to bob.sheedy@unitywater.com

RTI DL RELEASE - EHP

ROOFLEY
PO BOX 584
DECEPTION BAY
QLD 4508

RE CABOOLTURE C/PARK SEWER UPGRADE

CURRENT PROBLEM

The existing SBR plant is not producing effluent to the required licence, plate count, suspended solids and turbidity. This is due to the system not batching correctly, and raw influent contaminating the process.

PROPOSED CORECTION METHODOLOGY

The existing pump station is to have the pump removed and replaced with a high solids transfer pump, this will transfer the influent to a new 20kl tank. This tank will be fitted with a gross pollutant trap, and a cutter grinder pump, with a duty stand by on rails. This tank will be gravity connected to a second tank. The cutter grinders reduce all material to smaller particles which increases the surface area for the microbes to break down. The gross pollutant trap is to ensure no large particles enter the reactor. It is envisaged that the time sequence will be 1 hrs aeration/1 hr settling, and .4 hr transfer time. We also propose to use a small 4kl decant tank to gravity feed from the final contact tank, this will have a recirculating pump (100lpm) which will constantly loop the water through a pH/chlorine probe. This will automatically dose and correct both chlorine levels and pH. A solenoid valve will open on this tank and gravity feed to the current sewer discharge point. We realise the licence states samples to be taken at the weir, this is because this is the current point of discharge, the new tank will now be the final point of treatment/discharge. The decant tank will also have aeration, of a finer nature than the main reactor, this will have a two fold effect firstly, it will keep any fine particles suspended, and keep the water in an aerobic condition.

The existing transfer pipe from reactor to clarifying tank will need to be modified with a right angle return head, this will fill with air and prevent premature transfer. A solenoid valve on top will open on time sequence to expel the air and commence transfer.

VOLUME / LOADINGS

We have allowed for 24kl/day, 24 divided by 10 batches = 2.4kl per batch 24hrs divided by 10 batches = 2.4hrs per batch 1 hour of aeration would be sufficient for a 4kl batch therefore we are well within design parameters for this loading. The existing blower will produce enough dissolved oxygen for the reactor process.

ALARMS / SET POINTS

A high level alarm needs to be installed in the existing pump well in case of pump failure, the same applies to the new 20kl tank. The auto recirc/dosing system have built in audible alarms should they fail to meet the set points. The new decant tank will have a high level overflow pipe to discharge to sewer should the valve fail to open.

DERM

12/09/12

RE: SBR PLANT CABOOLTURE C/PARK
NON COMPLIANT PHOSPHATE LEVELS

CURRENT ACTION /RECTIFICATION

We have been consistently improving the system over the last 12 months which is evident by all parameters complying with the exception of phosphate . We have trialled different coagulants with varying results, as well as batching protocols, we are presently doing a water analysis to determine what % of the phosphate is surfactant based and what is urine based so as to better deal with this issue, as you are aware testing takes time as does installation of the corrective hardware.

YOURS SINCERLY
PETER STUART

RTI DL RELEASE - SUP

Unitywater Laboratory - Moreton Bay

67 Weier Rd, Morayfield
P.O. Box 953 Caboolture Qld 4510
Phone: (07) 5420 0720
Fax: (07) 5420 0716
E-mail: labstaff@unitywater.com

Accredited for compliance with ISO/IEC 17025.
Accreditation No. 14414.

This report shall not be reproduced except in full, without written approval of the laboratory.

REPORT NUMBER: UMB112484 - 00

Final Report

ISSUE DATE: 13/12/11

REGISTRATION DETAILS

JOB DESCRIPTION: Caboolture Caravan Park
JOB REFERENCE: UMB112484
REGISTRATION DATE: 7/12/2011
SAMPLE DATE: 7/12/2011

CUSTOMER DETAILS

NAME: Caboolture Caravan Park
ADDRESS: 26 Burnett Road
Caboolture QLD 4510

Signatories and Report Authorisation:

document has been electronically signed by the authorised approver / signatory indicated below.

Electronic signing has been carried out in compliance with procedures specified in MQ007, CQ07 and CQ03.

Signatory / Approver *Accreditation Category*

Dawn Hadfield Biological

Mark Scott Chemical

Delmy Figueroa Chemical

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted.

Analyte		Method	LOR	Units	Caboolture Caravan Park 7/12/2011 10:50
Free Chlorine	C	TM04	0.1	mg/L	<0.1
pH	-	TM15A	1	pHU	7.2
Conductivity	-	TM07A	1	µS/cm	614
Dissolved Oxygen	-	TM08A	1	mg/L	8.15
Turbidity	-	TM21A	1	NTU	5
BOD	C	TM02	3	mg/L	<3
COD	C	TM43	10	mg/L	23
Suspended Solids	C	TM12	2	mg/L	8

Analyte		Method	LOR	Units	Caboolture Caravan Park 7/12/2011 10:50
Ammonia N	C	TM22F	0.02	mg/L	0.06
NOx	C	TM23F	0.02	mg/L	13.0
TKN	C	TM26F	0.5	mg/L	3.3
TKP	C	TM16TKP	0.02	mg/L	7.49
Organic N	C	TM25F	0.5	mg/L	3.2
Total Nitrogen	C	TM25F	0.5	mg/L	16.3

Analyte		Method	LOR	Units	CCPFaecal 1 7/12/2011 08:00	CCPFaecal 2 7/12/2011 08:30	CCPFaecal 3 7/12/2011 09:00	CCPFaecal 4 7/12/2011 09:30	CCPFaecal 5 7/12/2011 10:00
Faecal Coliforms	M	MM002	1	cfu/100mL	<10	<10	<10	<10	<10

Attachment/s:

Abbreviations:

C indicates that NATA Chemical Accreditation is held for the test.

M indicates that NATA Biological Accreditation is held for the test.

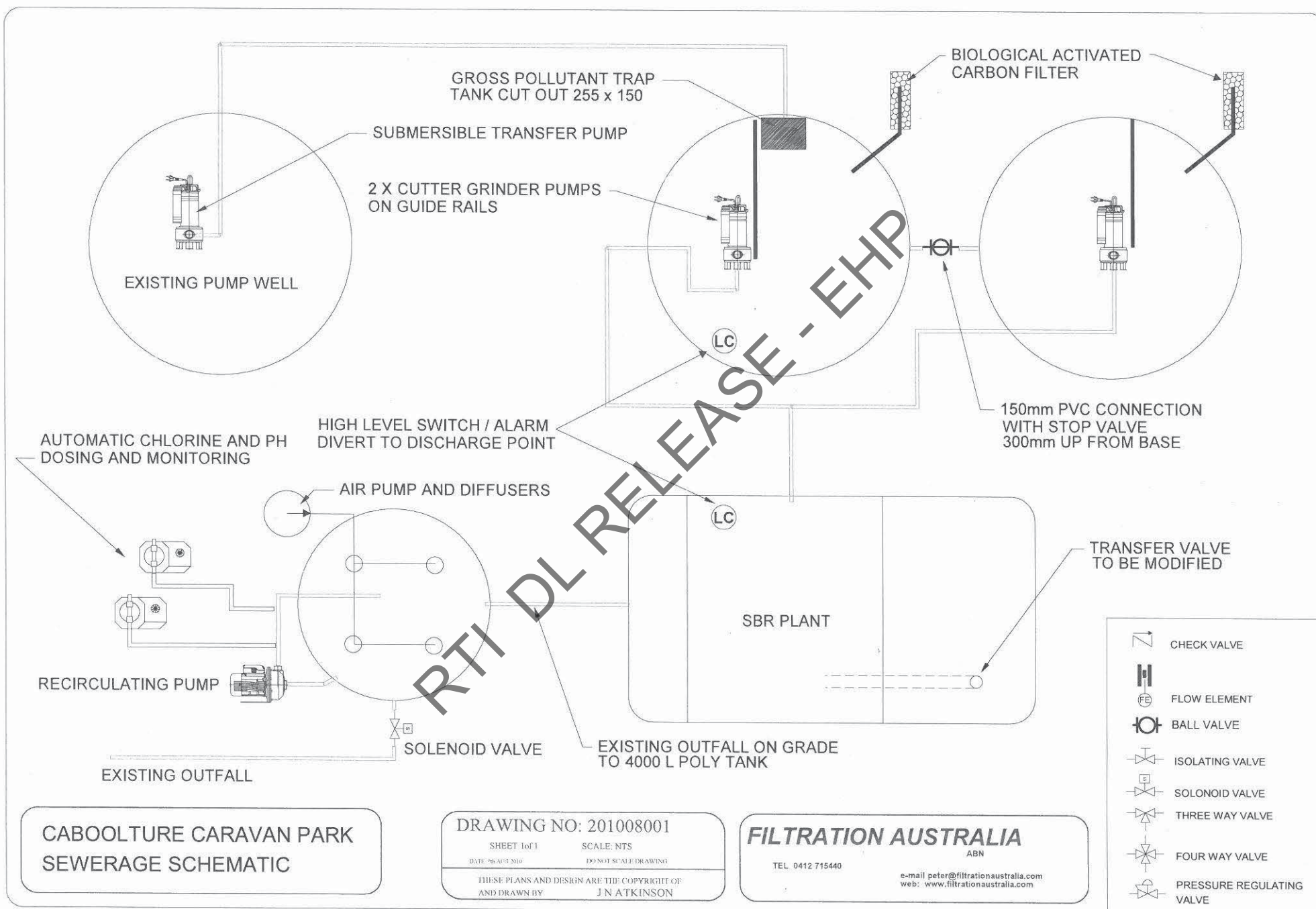
- indicates NATA accreditation is not held for the test.

E indicates the test was performed by an external laboratory (refer to attachment/s).

LOR: Limit of Reporting; NT: Not tested; ND: Not detected; NS: No sample; NA: Not assigned; test not requested; NR: Not Reported

Bold: Result is outside acceptance limits.

The laboratory welcomes your feedback on our performance. Please send your comments to bob.sheedy@unitywater.com



Date	Days	Reading (kL)	Usage	Rate (L / day)
29/01/2010		64416		
4/05/2010	95	67231	2815	29632
28/07/2010	85	70831	3600	42353
3/11/2010	98	73541	2710	27653
9/02/2011	98	76417	2876	29347
17/05/2011	97	79144	2727	28113
27/07/2011	71	80795	1651	23254
21/10/2011	86	82967	2172	25256
16/12/2011	56	84220	1253	22375
17/5/11 to 16/12/11	213		5076	23831

RTI DL RELEASE - EHP

Unitywater Laboratory - Moreton Bay

67 Weier Rd, Morayfield
P.O. Box 953 Caboolture Qld 4510
Phone: (07) 5420 0720
Fax: (07) 5420 0716
E-mail: labstaff@unitywater.com

Accredited for compliance with ISO/IEC 17025.
Accreditation No. 14414.

This report shall not be reproduced except in full, without written approval of the laboratory.

REPORT NUMBER: UMB120022 - 00

Final Report

ISSUE DATE: 12/01/12

REGISTRATION DETAILS

JOB DESCRIPTION: Caboolture Caravan Park
JOB REFERENCE: UMB120022
REGISTRATION DATE: 4/01/2012
SAMPLE DATE: 4/01/2012

CUSTOMER DETAILS

NAME: Caboolture Caravan Park
ADDRESS: 26 Burnett Road
Caboolture QLD 4510

Signatories and Report Authorisation:

This document has been electronically signed by the authorised approver / signatory indicated below.

Electronic signing has been carried out in compliance with procedures specified in MQ007, CQ07 and CQ03.

Signatory / Approver *Accreditation Category*

Andrea Cobb Biological

Mark Scott Chemical

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted.

Analyte		Method	LOR	Units	Caboolture Caravan Park 4/01/2012 10:45
Free Chlorine	C	TM04	0.1	mg/L	<0.1
pH	-	TM15A	1	pH	7.5
Conductivity	-	TM07A	1	µS/cm	576
Dissolved Oxygen	-	TM08A	1	mg/L	5.15
Turbidity	-	TM21A	1	NTU	14
BOD	C	TM02	3	mg/L	<3
COD	C	TM43	10	mg/L	39
Suspended Solids	C	TM12	2	mg/L	17

Analyte		Method	LOR	Units	Caboolture Caravan Park 4/01/2012 10:45
Ammonia N	C	TM22F	0.02	mg/L	1.22
NOx	C	TM23F	0.02	mg/L	0.52
TKN	C	TM26F	0.5	mg/L	4.9
TKP	C	TM16TKP	0.02	mg/L	7.10
Organic N	C	TM25F	0.5	mg/L	3.7
Total Nitrogen	C	TM25F	0.5	mg/L	5.4

Analyte		Method	LOR	Units	CCP Faecal 1 4/01/2012 08:00	CCP Faecal 2 4/01/2012 08:30	CCP Faecal 3 4/01/2012 09:00	CCP Faecal 4 4/01/2012 09:30	CCP Faecal 5 4/01/2012 10:00
Faecal Coliforms	M	MM002	1	cfu/100mL	<10	<10	<10	<10	<10

Attachment/s:

Abbreviations:

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- indicates NATA accreditation is not held for the test.

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Bold: Result is outside acceptance limits.

The laboratory welcomes your feedback on our performance. Please send your comments to bob.sheedy@unitywater.com

RTI DL RELEASE - EHP

Department of Environment
and Resource Management

0732932315

Annual Return

Environmental Protection Act 1994**Registration Certificate**MORETON BAYOFFICIAL USE ONLY
DATE RECEIVED:

FILE REF:

PROJECT REF:

240682

COMPLETE FORM:



ADMINISTERING REGION:

ENTERED BY (SIGNATURE):

EILSON

DATE:

23 / 12 / 2011**Important information for holders of a Registration Certificate**

This form must be completed and submitted to the administering authority each year by the holder of a Registration Certificate and submitted with the appropriate payment under the *Environmental Protection Act 1994*.

For help in completing this form please refer to the **Guidance Notes** on the left of each page or if you have any questions about this annual return or any supporting information required please contact Permit and Licence Management on 1300 130 372.

The completed Annual Return is to be sent to: Permit and Licence Management, Implementation and Support Unit, Department of Environment and Resource Management, GPO Box 2454, Brisbane Qld 4001.

RECEIVED**21 DEC 2011****Farm****GUIDANCE NOTES**

List the full names of the holders of the Registration Certificate. Where there is more than one please list all.

Minor changes, such as change of name after marriage, can be made as an amendment by agreement. A change of name and a change in ABN/ACN will require an application to amend the Registration Certificate.

Please contact Permit and Licence Management on 1300 130 372 for more information.

Annual Return details for 20 Dec 2010 to 19 Dec 2011**1. Registration Certificate Holders Name**

NAME(S):

Roofley Pty. Ltd.
Trading as t/a Caboolture Caravan Park

2. Registration Certificate Number

NUMBER(S):

ENRE00764008



Department of Environment
and Resource Management

0732932315

Annual Return
Registration Certificate

Where there is more than one holder, all joint holders may appoint one holder as the principal holder to act on behalf of them all. The appointment may be made by giving DERM written confirmation signed by all the holders of the Registration Certificate. Please update contact details if incorrect by crossing out the details and printing the correct details beneath or on an attached sheet of paper.

3. Principal holder

NAME OR NAME OF COMPANY AND CONTACT PERSON:

Roofley Pty. Ltd.
Trading as t/a Caboolture Caravan Park

REGISTERED BUSINESS ADDRESS:

P N Murray Accountants
Level 1, 193 Morayfield Road
MORAYFIELD QLD 4506

FULL POSTAL ADDRESS (WHERE DIFFERENT):

PO Box 584
DECEPTION BAY QLD 4508

TELEPHONE:

07 5495 1041

FACSIMILE:

5495 1406

MOBILE TELEPHONE:

sch4p4(6) Personal information

EMAIL:

murray@roofley.com

Please update details if incorrect by crossing out the details and printing the correct details beneath or on an attached sheet of paper.

4. Contact Person (where applicable)

NAME:

Mr Murray Woolnough

POSITION AND COMPANY:

Director, Roofley Pty. Ltd.

FULL POSTAL ADDRESS:

PO Box 584
DECEPTION BAY QLD 4508

TELEPHONE:

07 3203 2032

FACSIMILE:

07 3293 2315

MOBILE TELEPHONE:

sch4p4(6) Personal information

EMAIL:

murray@roofley.com

Department of Environment
and Resource Management

0732932315

Annual Return
Registration Certificate

5. Do you have a copy of the Development Approval/s or Code of Environmental Compliance to which your Registration Certificate applies?

☒ YES☐ NO

6. Have any of the activities on your Registration Certificate altered since the time it was issued?

☐ YES

→ Your Development Approval and Registration Certificate may need to be amended. Contact Permit and Licence Management for advice.

☒ NO

7. Does your Registration Certificate include an activity with an aggregate environmental score?

☒ YES

→ Go to question 8.

☐ NO

→ Go to question 9.

8. Are you claiming a reduced annual fee under sections 121-127 of the Environmental Protection Regulation 2008?

For details of the eligibility criteria please refer to the information sheet *Paying a reduced annual fee* which is available from the department's website.

NOTE: The reduced annual fee does not apply if the annual return and fees are not submitted by the due date or if there is no aggregate environmental score.

☐ YES

→ A reduced annual fee cannot be claimed unless *Appendix A - Claiming a reduced annual fee* is completed. Please complete Appendix A and return it together with this annual return form.

☒ NO

Department of Environment
and Resource Management

Annual Return Registration Certificate

Section 320 of the EP Act imposes a duty on the holder of a Registration Certificate to report serious or material environmental harm caused or threatened in the carrying out of an activity unless that harm is specifically authorised under a Development Approval or Code of Environmental Compliance.

9. Since your last annual return, have you fully complied with the conditions of your Development Approval or Code of Environmental Compliance and your general environmental duty?

☐ YES

☒ NO → For each condition of the DA or Code of Environmental Compliance with which the holder has not complied, please attach the following

- a) a statement of whether or not the non-compliance/incident has been previously reported;
- b) a statement describing the non-compliance/incident including photographs where appropriate;
- c) a statement describing the environmental impacts resulting from the non-compliance/incident;
- d) a statement describing the actions taken to repair any damage to the environment resulting from the non-compliance/incident

☒ Tick to indicate that the required statements are attached

Please do not submit an annual report required by a condition of an DA or Code of Environmental Compliance with this annual return. Annual reports are to be stored for viewing by DERM officers upon request.

10. Does a condition of your Development Approval or Code of Environmental Compliance require you to carry out any monitoring and/or prepare reports on the activities for which you hold a Registration Certificate?

☒ YES

☐ NO → Go to question 15.

Monitoring data that has been submitted electronically to the Point Source Data Base in accordance with a written agreement with DERM does not need to be resubmitted.

11. Do you provide reports directly to the point source database?

☒ YES

→ Go to question 16. If no other monitoring is required to be undertaken.

☒ NO

All reports must be held in the same place and be available for inspection by the administering authority during business hours. You must forward the reports to DERM on request or when the Registration Certificate has been surrendered or cancelled.

12. Has all of the necessary environmental monitoring been carried out and all the reports prepared in accordance with your Development Approval or Code of Environmental Compliance?

☒ YES

☐ NO

→ Provide details below explaining why this has not occurred. If you require more space, attach additional information.

0732932315

Department of Environment
and Resource ManagementAnnual Return
Registration Certificate

13. Please provide details of the titles of all the monitory data compiled and the reports prepared since your last annual return. Please provide details of where the monitoring data and reports are kept.

Table 1 List of Monitoring data required

NATURE OF REPORT AND /OR MONITORING	PREPARED BY	LOCATION OF REPORT	DATES COVERED
WATER QUALITY ANALYSIS	UNITY WATER	LOT 2 ON PLAN RP115413 LOWER KINGS ST. CARBOURNE	MONTHLY

Please do not submit the report(s) with this annual return - fill out the information below. If you require more space, attach additional information.

14. Has the monitoring that has been carried out shown any exceedance of the environmental limits set in the conditions of your Development Approval or Code of Environmental Compliance?



YES



Please attach a copy of the notification of the exceedance that you gave to the administering authority.



NO

15. Is this return for ERA 57 - Regulated waste transport?



YES



Go to Question 16



NO



Go to Question 18.

0732932315

Department of Environment
and Resource Management

Annual Return

Registration Certificate

16. Have the details of your waste vehicles changed from the list provided in the Annual Notice?

- ☐ YES → Complete table below including the details of all vehicles to be covered by this Registration Certificate. Attach additional information if required.
- ☐ NO

Table 2 - Waste Vehicle Details

Note: ERA 57 - Regulated waste transport contains three thresholds, 57-(2a), 57-(2b) and 57-(2c). These thresholds represent the number of vehicles that a holder of a Registration Certificate may operate and the annual fees change according to the threshold. If the number of vehicles listed on your Registration Certificate falls above or below your listed activity you are required to amend your Registration Certificate.

17. The fee for ERA 57 - Regulated waste transport is based on the number of vehicles on your Registration Certificate. If you increase or decrease the number of vehicles, this may result in a change to the fee payable. Where a change in the number of vehicles has changed the ERA threshold which applies, your Registration Certificate will be amended. Please tick the boxes below to signify your agreement to this action being taken by the administering authority on the basis of the information you have provided in this annual return.

The fees payable are: ERA Threshold 57-(2a) Regulated waste transport 1 to 5 vehicles \$1493.8; 57-(2b) Regulated waste transport 6 to 35 vehicles \$4481.4; 57-(2c) Regulated waste transport > 35 vehicles \$8962.8.

- ☐ I agree to amendments to my Registration Certificate to reflect the change in accordance with the number of vehicles listed in this return and understand that this may change my obligations under the Code of Environmental Compliance.
- ☐ I have paid a reduced/increased fee for the coming year in accordance with the number of vehicles listed in this return.

Department of Environment
and Resource Management

Annual Return

Registration Certificate

Please read carefully through the
declaration before signing.

Under section 480 of the EP Act, it is an
offence to knowingly give the administering
authority information that is false,
misleading or incomplete in any material
particular.

18. Declaration

- I / We, being the holders identified at Section 1, acknowledge that all information supplied on or with this application form may be made available upon request, subject to the provisions of the *Right to Information Act 2009* and the *Evidence Act 1977*.
- I am the holder or the appointed signatory for the Registration Certificate.
- I am aware that under section 480 of the *Environmental Protection Act 1994*, it is an offence to knowingly give the administering authority information that I know is false, misleading or incomplete in any material particular.
- I have supplied all of the required information.

SIGNAT

sch4p4(6) Personal information

NAME OF SIGNATORY:

MURRAY JOHN WOOLNUGH

POSITION OF SIGNATORY (IE DIRECTOR, MANAGER, OWNER, PARTNER, CEO
ETC):

DIRECTOR

DATE:

20/12/11

Please return your completed annual return to:

Permit and Licence Management
Implementation and Support Unit
Department of Environment and Resource Management
GPO Box 2454
Brisbane Queensland 4001
Enquiries: 1300 130 372
Facsimile: (07) 3896 3342
E-mail: palm@derm.qld.gov.au

0732932315



PO Box 584, Deception Bay Qld 4508

P - 07 3203 2032

F - 07 3293 2315

roofleyptyltd@exemail.com.au

20 December 2011

Permit & Licence Management
Implement & Support Unit
Department of Environment & Resource Management
GPO Box 2454
BRISBANE QLD 4001

To whom it may concern,

STATEMENT OF NON-COMPLIANCE

For the period of the Annual Return 20 Dec 2010 to 20 Dec 2011, the monthly Water Quality Analysis have provided the following results (each test is attached):

Analyte	5Jan11	2Feb11	2Mar11	6Apr11	13Apr11	4May11	11May11	1Jun11	6Jul11	3Aug11	7Sep11	5Oct11	2Nov11	7Dec11
Free Chlorine	0.1	0.3	1.3	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
pH	7.86	7.85	7.95	6.87	7.67	7.24	7.25	7	6.9	7.7	7.4	7.5	7.5	7.2
Conductivity	455	421	853	456	515	439	447	448	669	614	564	640	692	614
Dissolved Oxygen	7.01	7.59	7.75	7.48	11.36	9.58	9.66	9.31	10.17	8.42	8.78	6.14	7.26	8.15
Turbidity	31	23	61	24	33	29	10	9	2	3	20	11	8	5
BOD	33	3	3	20	3	3	5	3	3	4	N/A	N/A	3	3
COD	110	24	144	61	83	61	61	70	67	37	46	50	36	23
Suspended Solids	52	32	25	24	25	23	10	11	2	2	18	19	15	6
Ammonia N	13.8	0.7	31.8	6.1	15.6	0.5	0.1	0.13	0.53	1.8	4	10.6	2.5	0.08
Nox	2.38	1.6	0.79	4.42	2.21	10.7	12.1	6.17	18.9	0.66	0.31	0.32	0.38	13
TKN	20.4	2.3	35.9	10	18.5	4.4	4.2	2.8	3.6	4.9	6.3	13.3	5	3.3
TKP	3.76	1.21	6.12	3.87	4.76	4.14	4.12	2.53	11	7.41	1.1	1.49	7.83	7.49
Organic N	6.6	1.6	4.3	3.9	2.9	4.4	4.2	2.7	3.1	3.1	2.3	2.7	2.5	3.2
Total Nitrogen	22.8	3.9	36.7	14.4	20.7	15.1	16.3	11	22.5	5.6	6.6	13.6	6.4	16.3
Faecal Coliforms	10000	10	10	10000	10	10000	10	10	1	10	1	10	10	10

Each test result has been separately reported to DERM, via email to Trina Seltz, Jenny Clarke or Leonie Clough.

To improve our confidence in the Sewerage Treatment Plant (STP), we have engage the services of a consultant to check the STP on a monthly basis, which generally coincides with the above mentioned test dates since April 2011.

Following is a list of actions taken to improve the results of the STP, during the period of the Annual Return:

Date	Action	Third Party	Cost
20Dec10	Sludge removal (18,000L)	B&Y Liquid Waste Removal	\$1,121
23Dec10	Install additional STP components -> Programmable Logic Controller (PLC)	Epro Australia	\$4,678
Dec10 - Jan11	Eliminate rainwater in sewer lines -> raise ORG's -> additional guttering	Big Ma's Plumbing Service	\$4,822
31Jan11	Install additional STP components -> Working Level Cable Float in Balance Tanks for pump control -> Cable float in Aeration Tank for Level Control of Decant Valve	Epro Australia	\$1,573

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11Feb11	Install additional STP components -> Auto dosing PH/Chlorine controller	Filtration Australia
28Feb11	Install additional STP components -> DO analyser -> Remote fault alarm system	Epro Australia
23Mar11	Install additional STP components -> Cabling for Flow Meters, Float in Balance Tank, Tank High Level Shut Down of Pump Well -> Automated Valve for Sludge Removal -> DO Analyser probe ~ with Blower control	Epro Australia
05Apr11	Camera probe in inspect sewer lines to confirm egress of water	Orbital Underground
12Apr11	Meeting with new consultant to review STP processes: -> Change point where flocking agent is added -> Modification of pathogen barrier control	Suncoast Advanced Wastewater sch4p4(7)(1)(c) Business/commercial/profess
18Apr11	Install additional STP components -> New tank for settling -> Decant relay for Dosing system	Filtration Australia Epro Australia
April-May	New sewer, water lines and primary collection tank to remove egress.	Betta Earthmoving B&Y Waste Removal Orbital Underground Perry's Bobcat & Tipper Hire Big Ma's Plumbing Swan Plumbing
18May11	Install additional STP components -> Flow meter -> Dosing pump -> Ultra violet -> New submersible pump	Filtration Australia Epro Australia
Total spend to improve STP performance		

*Note: Not included in these costs are materials purchased on corporate accounts and company labour.

Since May 2011, the only measure we have failed to comply is on TKP. The consultant we have engaged, Peter Stuart (Filtration Australia) has provided the following feedback;

We have been using poly aluminium chloride for the removal of phosphate in the final effluent with varying results. We are currently talking with the chemical manufactures/chemical engineers to obtain information on the lack of performance. Information obtained to date would indicate fluctuating alkalinity could well be affecting the performance. Small plants such as this, as opposed to large commercial plants, experience drastic spikes in influent chemistry. We are currently trialling a different coagulant/polymer combination to overcome this problem, in the event that this methodology (coagulant/polymer) proves to be unreliable we will then have no choice but to use a biological process to reduce the phosphate levels.

Further to the work being completed at the STP, in an effort to reduce TKP levels, we have changed the laundry power we use to a phosphate free product. We are also selling sachets of phosphate-free laundry power to tenants at a subsidised rate (we purchase the sachets at \$0.33 each while sell them to tenants at \$0.20).

Yours sincerely,

sch4p4(6) Personal information

Murray Woolnough
Director
Roofley Pty Ltd

Unitywater Laboratory - Moreton Bay

67 Weier Rd, Morayfield
P.O. Box 953 Caboolture Qld 4510
Phone: (07) 5420 0720
Fax: (07) 5420 0716
E-mail: labstaff@unitywater.com

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REPORT NUMBER: UMB120229 - 00

Final Report

ISSUE DATE: 7/02/12

REGISTRATION DETAILS

JOB DESCRIPTION: Caboolture Caravan Park
JOB REFERENCE: UMB120229
REGISTRATION DATE: 1/02/2012
SAMPLE DATE: 1/02/2012

CUSTOMER DETAILS

NAME: Caboolture Caravan Park
ADDRESS: 26 Burnett Road
Caboolture QLD 4510

Signatories and Report Authorisation:

This document has been electronically signed by the authorised approver / signatory indicated below.
Electronic signing has been carried out in compliance with procedures specified in MQ007, CQ07 and CQ03.

Signatory / Approver	Accreditation Category
Dawn Hadfield	Biological
Nicholas Heeney	Chemical
Mark Scott	Chemical

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted.

Analyte		Method	LOR	Units	Caboolture Caravan Park 1/02/2012 10:40
Free Chlorine	C	FM11	0.1	mg/L	<0.1
pH	C	FM03	1	pH	7.6
Conductivity	C	FM01	1	µS/cm	330
Dissolved Oxygen	C	FM02	1	mg/L	7.26
Turbidity	C	FM04	1	NTU	14
BOD	C	TM02	3	mg/L	<3
COD	C	TM43	10	mg/L	57
Suspended Solids	C	TM12	2	mg/L	16

Analyte		Method	LOR	Units	Caboolture Caravan Park 1/02/2012 10:40
Ammonia N	C	TM22F	0.02	mg/L	0.28
NOx	C	TM23F	0.02	mg/L	0.36
TKN	C	TM26F	0.5	mg/L	2.7
TKP	C	TM16TKP	0.02	mg/L	1.43
Organic N	C	TM25F	0.5	mg/L	2.4
Total Nitrogen	C	TM25F	0.5	mg/L	3.0

Analyte		Method	LOR	Units	CCP Faecal 1 1/02/2012 08:00	CCP Faecal 2 1/02/2012 08:30	CCP Faecal 3 1/02/2012 09:00	CCP Faecal 4 1/02/2012 09:30	CCP Faecal 5 1/02/2012 10:00
Faecal Coliforms	M	MM002	1	cfu/100mL	<10	<10	<10	<10	<10

Attachment/s:

Abbreviations:

C indicates that NATA Chemical Accreditation is held for the test.

M indicates that NATA Biological Accreditation is held for the test.

- indicates NATA accreditation is not held for the test.

E indicates the test was performed by an external laboratory (refer to attachment/s).

LOR: Limit of Reporting; NT: Not tested; ND: Not detected; NS: No sample; NA: Not assigned; test not requested; NR: Not Reported

Bold: Result is outside acceptance limits.

The laboratory welcomes your feedback on our performance. Please send your comments to bob.sheedy@unitywater.com

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Unitywater Laboratory - Moreton Bay

67 Weier Rd, Morayfield
P.O. Box 953 Caboolture Qld 4510
Phone: (07) 5420 0720
Fax: (07) 5420 0716
E-mail: labstaff@unitywater.com

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REPORT NUMBER: UMB120494 - 00

Final Report

ISSUE DATE: 13/03/12

REGISTRATION DETAILS

JOB DESCRIPTION: Caboolture Caravan Park
JOB REFERENCE: UMB120494
REGISTRATION DATE: 7/03/2012
SAMPLE DATE: 7/03/2012

CUSTOMER DETAILS

NAME: Caboolture Caravan Park
ADDRESS: 26 Burnett Road
Caboolture QLD 4510

Signatories and Report Authorisation:

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Signatory / Approver *Accreditation Category*

Andrea Cobb Biological
Nicholas Heeney Chemical

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted.

Analyte		Method	LOR	Units	Caboolture Caravan Park 7/03/2012 10:40
Free Chlorine	C	FM11	0.1	mg/L	<0.1 ✓
pH	C	FM03	1	pH	8.2 ✓
Conductivity	C	FM01	1	µS/cm	395 ✓
Dissolved Oxygen	C	FM02	1	mg/L	7.32 ✓
Turbidity	C	FM04	1	NTU	16 ✓

Analyte		Method	LOR	Units	Caboolture Caravan Park 7/03/2012 10:40
BOD	C	TM02	3	mg/L	<3 ✓
COD	C	TM43	10	mg/L	32 ✓
Suspended Solids	C	TM12	2	mg/L	11 ✓

Analyte		Method	LOR	Units	Caboolture Caravan Park 7/03/2012 10:40
Ammonia N	C	TM22F	0.02	mg/L	0.35
NOx	C	TM23F	0.02	mg/L	1.71
TKN	C	TM26F	0.5	mg/L	1.7
TKP	C	TM16TKP	0.02	mg/L	0.84
Organic N	C	TM25F	0.5	mg/L	1.4
Total Nitrogen	C	TM25F	0.5	mg/L	3.4

Analyte		Method	LOR	Units	CCP Faecal 1 7/03/2012 08:00	CCP Faecal 2 7/03/2012 08:30	CCP Faecal 3 7/03/2012 09:00	CCP Faecal 4 7/03/2012 09:30	CCP Faecal 5 7/03/2012 10:00
Faecal Coliforms	M	MM002	1	cfu/100mL	<10	<10	<10	<10	<10

Attachment/s:

Abbreviations:

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LOR: Limit of Reporting; NT: Not tested; ND: Not detected; NS: No sample; NA: Not assigned, test not requested; NR: Not Reported

Bold: Result is outside acceptance limits.

The laboratory welcomes your feedback on our performance. Please send your comments to bob.sheedy@unitywater.com

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Unitywater Laboratory - Moreton Bay

67 Weier Rd, Morayfield
P.O. Box 953 Caboolture Qld 4510
Phone: (07) 5420 0720
Fax: (07) 5420 0716
E-mail: labstaff@unitywater.com

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REPORT NUMBER: UMB120707 - 00

Final Report

ISSUE DATE: 12/04/12

REGISTRATION DETAILS

JOB DESCRIPTION: Caboolture Caravan Park
JOB REFERENCE: UMB120707
REGISTRATION DATE: 4/04/2012
SAMPLE DATE: 4/04/2012

CUSTOMER DETAILS

NAME: Caboolture Caravan Park
ADDRESS: 26 Burnett Road
Caboolture QLD 4510

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Signatory / Approver *Accreditation Category*

Andrea Cobb Biological
N. Heeney Chemical

Mark Scott Chemical

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted.

Analyte		Method	LOR	Units	Caboolture Caravan Park 4/04/2012 10:30
Free Chlorine	C	FM11	0.1	mg/L	<0.1
pH	C	FM03	1	pH	8.5
Conductivity	C	FM01	1	µS/cm	694
Dissolved Oxygen	C	FM02	1	mg/L	6.77
Turbidity	C	FM04	1	NTU	16

Analyte		Method	LOR	Units	Caboolture Caravan Park 4/04/2012 10:30
BOD	C	TM02	3	mg/L	14
COD	C	TM43	10	mg/L	40
Suspended Solids	C	TM12	2	mg/L	14

Analyte		Method	LOR	Units	Caboolture Caravan Park 4/04/2012 10:30
Ammonia N	C	TM22F	0.02	mg/L	8.4
NOx	C	TM23F	0.02	mg/L	0.52
TKN	C	TM26F	0.5	mg/L	10.1
TKP	C	TM16TKP	0.02	mg/L	5.87
Organic N	C	TM25F	0.5	mg/L	1.7
Total Nitrogen	C	TM25F	0.5	mg/L	10.6

Analyte		Method	LOR	Units	CCP Faecal 1 4/04/2012 08:00	CCP Faecal 2 4/04/2012 08:30	CCP Faecal 3 4/04/2012 09:00	CCP Faecal 4 4/04/2012 09:30	CCP Faecal 5 4/04/2012 10:00
Faecal Coliforms	M	MM002	1	cfu/100mL	8	6	11	24	22

Results for MM002 are presumptive counts only.

Attachment/s:

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Bold: Result is outside acceptance limits.

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Unitywater

Unitywater Laboratory - Moreton Bay

67 Weier Rd, Morayfield
P.O. Box 953 Caboolture Qld 4510
Phone: (07) 5420 0720
Fax: (07) 5420 0716
E-mail: labstaff@unitywater.com



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REPORT NUMBER: UMB120914 - 00

Final Report

ISSUE DATE: 8/05/12

REGISTRATION DETAILS

JOB DESCRIPTION: Caboolture Caravan Park
JOB REFERENCE: UMB120914
REGISTRATION DATE: 2/05/2012
SAMPLE DATE: 2/05/2012

CUSTOMER DETAILS

NAME: Caboolture Caravan Park
ADDRESS: 26 Burnett Road
Caboolture QLD 4510

Signatories and Report Authorisation:

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Signatory / Approver *Accreditation Category*

Simon Jonker Biological

Mark Scott Chemical

Arlene Yarrow Chemical

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted.

Analyte		Method	LOR	Units	Caboolture Caravan Park 2/05/2012 10:50
Free Chlorine	C	FM11	0.1	mg/L	<0.1 ✓
pH	C	FM03	1	pHU	8.3 ✓
Conductivity	C	FM01	1	µS/cm	476 ✓
Dissolved Oxygen	C	FM02	1	mg/L	6.95 ✓
Turbidity	C	FM04	1	NTU	12

Analyte		Method	LOR	Units	Caboolture Caravan Park 2/05/2012 10:50
BOD	C	TM02	3	mg/L	<3 ✓
COD	C	TM43	10	mg/L	30 ✓
Suspended Solids	C	TM12	2	mg/L	14 ✓

Analyte		Method	LOR	Units	Caboolture Caravan Park 2/05/2012 10:50
Ammonia N	C	TM22F	0.02	mg/L	1.04
NOx	C	TM23F	0.02	mg/L	0.97
TKN	C	TM26F	0.5	mg/L	2.5
TKP	C	TM16TKP	0.02	mg/L	0.47
Organic N	C	TM25F	0.5	mg/L	1.5
Total Nitrogen	C	TM25F	0.5	mg/L	3.5

Analyte		Method	LOR	Units	CCP Faecal 1 2/05/2012 08:00	CCP Faecal 2 2/05/2012 08:30	CCP Faecal 3 2/05/2012 09:00	CCP Faecal 4 2/05/2012 09:30	CCP Faecal 5 2/05/2012 10:00
Faecal Coliforms	M	MM002	1	cfu/100mL	<10	<10	<10	<10	10EST

Attachment/s:

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REPORT NUMBER: UMB121417 - 00

Final Report

ISSUE DATE: 9/07/12

REGISTRATION DETAILS

JOB DESCRIPTION: Caboolture Caravan Park
JOB REFERENCE: UMB121417
REGISTRATION DATE: 4/07/2012
SAMPLE DATE: 4/07/2012

CUSTOMER DETAILS

NAME: Caboolture Caravan Park
ADDRESS: 26 Burnett Road
Caboolture QLD 4510

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Signatory / Approver Accreditation Category

Simon Jonker Biological
Nicholas Heeney Chemical

Toni Hungerford Chemical

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted.

Analyte		Method	LOR	Units	Caboolture Caravan Park 4/07/2012 11:20
Free Chlorine	C	FM11	0.1	mg/L	<0.1
pH	C	FM03	1	pH	7.8
Conductivity	C	FM01	1	µS/cm	502
Dissolved Oxygen	C	FM02	1	mg/L	10.56
Turbidity	C	FM04	1	NTU	23

Analyte		Method	LOR	Units	Caboolture Caravan Park 4/07/2012 11:20
BOD	C	TM02	3	mg/L	NR
COD	C	TM43	10	mg/L	62
Suspended Solids	C	TM12	2	mg/L	24

Analyte		Method	LOR	Units	Caboolture Caravan Park 4/07/2012 11:20
Ammonia N	C	TM22F	0.02	mg/L	4.3
NOx	C	TM23F	0.02	mg/L	0.35
TKN	C	TM26F	0.5	mg/L	6.0
TKP	C	TM16TKP	0.02	mg/L	1.60
Organic N	C	TM25F	0.5	mg/L	1.7
Total Nitrogen	C	TM25F	0.5	mg/L	6.3

Analyte		Method	LOR	Units	CCP Faecal 1 4/07/2012 08:00	CCP Faecal 2 4/07/2012 08:30	CCP Faecal 3 4/07/2012 09:00	CCP Faecal 4 4/07/2012 09:30	CCP Faecal 5 4/07/2012 10:00
Faecal Coliforms	M	MM002	1	cfu/100mL	1 EST	6 EST	3 EST	4 EST	<1

BOD not reported as DO2 > DO1.

Attachment/s:

Abbreviations:

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Bold: Result is outside acceptance limits.

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 67 Weier Rd, Morayfield
 P.O. Box 953 Caboolture Qld 4510
 Phone: (07) 5420 0720
 Fax: (07) 5420 0716
 E-mail: labstaff@unitywater.com

REPORT NUMBER: UMB121651 - 00

Final Report
ISSUE DATE: 6/08/12

REGISTRATION DETAILS

JOB DESCRIPTION: Caboolture Caravan Park
JOB REFERENCE: UMB121651
REGISTRATION DATE: 1/08/2012
SAMPLE DATE: 1/08/2012

CUSTOMER DETAILS

NAME: Caboolture Caravan Park
ADDRESS: 26 Burnett Road
 Caboolture QLD 4510

Signatories and Report Authorisation:

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Signatory / Approver *Accreditation Category*

Simon Jonker Biological
 Nicholas Heeney Chemical

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted.

Analyte		Method	LOR	Units	Caboolture Caravan Park 1/08/2012 10:40
Free Chlorine	C	FM11	0.1	mg/L	<0.1
pH	C	FM03	1	pH	7.8
Conductivity	C	FM01	5	µS/cm	802
Dissolved Oxygen	C	FM02	1	mg/L	11.05
Turbidity	C	FM04	1	NTU	51

Analyte		Method	LOR	Units	Caboolture Caravan Park 1/08/2012 10:40
BOD	C	TM02	3	mg/L	<3
COD	C	TM43	10	mg/L	69
Suspended Solids	C	TM12	2	mg/L	47

Analyte		Method	LOR	Units	Caboolture Caravan Park 1/08/2012 10:40
Ammonia N	C	TM22F	0.02	mg/L	31.6
NOx	C	TM23F	0.02	mg/L	0.22
TKN	C	TM26F	0.5	mg/L	32.8
TKP	C	TM16TKP	0.02	mg/L	2.27
Organic N	C	TM25F	0.5	mg/L	1.2
Total Nitrogen	C	TM25F	0.5	mg/L	33.0

0.02

1.0

0.42

0.5

Analyte		Method	LOR	Units	CCP Faecal 1 1/08/2012 08:00	CCP Faecal 2 1/08/2012 08:30	CCP Faecal 3 1/08/2012 09:00	CCP Faecal 4 1/08/2012 09:30	CCP Faecal 5 1/08/2012 10:00
Faecal Coliforms	M	MM002	1	cfu/100mL	<10	<10	<10	10EST	<10 ✓

Attachment/s:

Abbreviations:

C indicates that NATA Chemical Accreditation is held for the test.**M** indicates that NATA Biological Accreditation is held for the test.**-** indicates NATA accreditation is not held for the test.**E** indicates the test was performed by an external laboratory (refer to attachment/s).

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Bold: Result is outside acceptance limits.The laboratory welcomes your feedback on our performance. Please send your comments to bob.sheedy@unitywater.com

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Fax: (07) 5420 0716
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REPORT NUMBER: UMB121939 - 00

Final Report

ISSUE DATE: 10/09/12

REGISTRATION DETAILS

JOB DESCRIPTION: Caboolture Caravan Park
JOB REFERENCE: UMB121939
REGISTRATION DATE: 5/09/2012
SAMPLE DATE: 5/09/2012

CUSTOMER DETAILS

NAME: Caboolture Caravan Park
ADDRESS: 26 Burnett Road
Caboolture QLD 4510

Signatories and Report Authorisation:

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Electronic signing has been carried out in compliance with procedures specified in MQ007 and CQ03.

Signatory / Approver *Accreditation Category*

Andrea Cobb Biological

Mark Scott Chemical

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted.

Analyte		Method	LOR	Units	Caboolture Caravan Park 5/09/2012 10:50
Chlorine Free	C	FM11	0.1	mg/L	<0.1
pH	C	FM03	1	pHU	8.1
Conductivity	C	FM01	5	µS/cm	639
Dissolved Oxygen	C	FM02	1	mg/L	9.74
Turbidity	C	FM04	1	NTU	11

Analyte		Method	LOR	Units	Caboolture Caravan Park 5/09/2012 10:50
BOD	C	TM02	3	mg/L	<3
COD	C	TM43	10	mg/L	43
Suspended Solids	C	TM12	2	mg/L	14

Analyte		Method	LOR	Units	Caboolture Caravan Park 5/09/2012 10:50
Ammonia N	C	TM22F	0.02	mg/L	26.1
NOx	C	TM23F	0.02	mg/L	0.31
TKN	C	TM26F	0.5	mg/L	28.1
TKP	C	TM16TKP	0.02	mg/L	3.58
Organic N	C	TM25F	0.5	mg/L	2.0
Total Nitrogen	C	TM25F	0.5	mg/L	28.4

Analyte		Method	LOR	Units	CCP Faecal 1 5/09/2012 08:00	CCP Faecal 2 5/09/2012 08:30	CCP Faecal 3 5/09/2012 09:00	CCP Faecal 4 5/09/2012 09:30	CCP Faecal 5 5/09/2012 10:00
Faecal Coliforms	M	MM002	1	cfu/100mL	<10	<10	<10	<10	<10

Attachment/s:

Abbreviations:

C indicates that NATA Chemical Accreditation is held for the test.

M indicates that NATA Biological Accreditation is held for the test.

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Bold: Result is outside acceptance limits.

The laboratory welcomes your feedback on our performance. Please send your comments to bob.sheedy@unitywater.com

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REPORT NUMBER: UMB122155 - 00

Final Report

ISSUE DATE: 2/10/12

REGISTRATION DETAILS

JOB DESCRIPTION: Caboolture Caravan Park
JOB REFERENCE: UMB122155
REGISTRATION DATE: 26/09/2012
SAMPLE DATE: 26/09/2012

CUSTOMER DETAILS

NAME: Caboolture Caravan Park
ADDRESS: 26 Burnett Road
Caboolture QLD 4510

Signatories and Report Authorisation:

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Electronic signing has been carried out in compliance with procedures specified in MQ007 and CQ03.

Signatory / Approver Accreditation Category

Mark Scott

Chemical

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted.

Analyte		Method	LOR	Units	Caboolture Caravan Park 26/09/2012 10:25
Chlorine Free	C	FM11	0.1	mg/L	<0.1
pH	C	FM03	1	pHU	7.8
Conductivity	C	FM01	5	µS/cm	777
Dissolved Oxygen	C	FM02	1	mg/L	7.84
Turbidity	C	FM04	1	NTU	3

Analyte		Method	LOR	Units	Caboolture Caravan Park 26/09/2012 10:25
BOD	C	TM02	3	mg/L	<3
COD	C	TM43	10	mg/L	32
Suspended Solids	C	TM12	2	mg/L	5

Analyte		Method	LOR	Units	Caboolture Caravan Park 26/09/2012 10:25
Ammonia N	C	TM22F	0.02	mg/L	30.9
NOx	C	TM23F	0.02	mg/L	0.38
TKN	C	TM26F	0.5	mg/L	34.3
TKP	C	TM16TKP	0.02	mg/L	0.40
Organic N	C	TM25F	0.5	mg/L	3.4
Total Nitrogen	C	TM25F	0.5	mg/L	34.7

Attachment/s:

Abbreviations:

C indicates that NATA Chemical Accreditation is held for the test.

M indicates that NATA Biological Accreditation is held for the test.

- indicates NATA accreditation is not held for the test.

E indicates the test was performed by an external laboratory (refer to attachment/s).

LOR: Limit of Reporting; NT: Not tested; ND: Not detected; NS: No sample; NA: Not assigned, test not requested; NR: Not Reported; EST: estimated count

Bold: Result is outside acceptance limits.

The laboratory welcomes your feedback on our performance. Please send your comments to bob.shedy@unitywater.com

RTI DL RELEASE - EHP

Reference	Description	Sample Description	Sample No.	Replicate	QC Type	Sample Date	Sample Time	Chlorine Free CHLORINE_FR
Units								mg/L
PQL								0.1
Method								FM11
UMB12220	(Caboolture	Caboolture	1	0	Regular	3/10/2012	10:20	0.1
UMB12220	(Caboolture	CCP Faecal	2	0	Regular	3/10/2012	8:00	
UMB12220	(Caboolture	CCP Faecal	3	0	Regular	3/10/2012	8:30	
UMB12220	(Caboolture	CCP Faecal	4	0	Regular	3/10/2012	9:00	
UMB12220	(Caboolture	CCP Faecal	5	0	Regular	3/10/2012	9:30	
UMB12220	(Caboolture	CCP Faecal	6	0	Regular	3/10/2012	10:00	

RTI DL RELEASE - EHP

pH	Conductivity	dissolved Oxygen	Turbidity	BOD	COD	Suspended Solids	Ammonia N	NOx
PH	CONDUCTIVITY	DO	TURBIDITY	BOD	COD	SUSPENDED_S	AMMONIA_N	NOX
pHU	µS/cm	mg/L	NTU	mg/L	mg/L	mg/L	mg/L	mg/L
1	5	1	1	3	10	2	0.02	0.02
FM03	FM01	FM02	FM04	TM02	TM43	TM12	TM22F	TM23F
7.2	952	3.17	8 <3		33	9	48.4	0.22

RTI DL RELEASE - EHP

TKN	TKP	Organic Nitrogen Total Nitrogenecal Coliforms		
TKN	TKP	ORGANIC_NITRAL_N_CAECAL_COLI_MF		
mg/L	mg/L	mg/L	mg/L	cfu/100mL
0.5	0.02	0.5	0.5	1
TM26F	TM16TKP	TM25F	TM25F	MM002
55.8	1.21	7.4	56	<1
				<1
				<1
				<1
				<1

RTI DL RELEASE - EHP

Unitywater Laboratory - Moreton Bay
 67 Weier Rd, Morayfield
 P.O. Box 953 Caboolture Qld 4510
 Phone: (07) 5420 0720
 Fax: (07) 5420 0716
 E-mail: labstaff@unitywater.com

Accredited for compliance with ISO/IEC 17025.
 Accreditation No. 14414.

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REPORT NUMBER: UMB122200 - 00

Final Report

ISSUE DATE: 8/10/12

REGISTRATION DETAILS

JOB DESCRIPTION: Caboolture Caravan Park
JOB REFERENCE: UMB122200
REGISTRATION DATE: 3/10/2012
SAMPLE DATE: 3/10/2012

CUSTOMER DETAILS

NAME: Caboolture Caravan Park
ADDRESS: 26 Burnett Road
 Caboolture QLD 4510

Signatories and Report Authorisation:

This document has been electronically signed by the authorised approver / signatory indicated below.
 Electronic signing has been carried out in compliance with procedures specified in MQ007 and CQ03.

Signatory / Approver	Accreditation Category
Simon Jonker	Biological
Nicholas Heeney	Chemical
Mark Scott	Chemical

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted.

Analyte		Method	LOR	Units	Caboolture Caravan Park 3/10/2012 10:20
Chlorine Free	C	FM11	0.1	mg/L	0.1
pH	C	FM03	1	pHU	7.2
Conductivity	C	FM01	5	µS/cm	952
Dissolved Oxygen	C	FM02	1	mg/L	3.17
Turbidity	C	FM04	1	NTU	8

Analyte		Method	LOR	Units	Caboolture Caravan Park 3/10/2012 10:20
BOD	C	TM02	3	mg/L	<3
COD	C	TM43	10	mg/L	33
Suspended Solids	C	TM12	2	mg/L	9

Analyte		Method	LOR	Units	Caboolture Caravan Park 3/10/2012 10:20
Ammonia N	C	TM22F	0.02	mg/L	48.4
NOx	C	TM23F	0.02	mg/L	0.22
TKN	C	TM26F	0.5	mg/L	55.8
TKP	C	TM16TKP	0.02	mg/L	1.21
Organic N	C	TM25F	0.5	mg/L	7.4
Total Nitrogen	C	TM25F	0.5	mg/L	56.0

Analyte		Method	LOR	Units	CCPFaecal 1 3/10/2012 08:00	CCPFaecal 2 3/10/2012 08:30	CCPFaecal 3 3/10/2012 09:00	CCPFaecal 4 3/10/2012 09:30	CCPFaecal 5 3/10/2012 10:00
Faecal Coliforms	M	MM002	1	cfu/100mL	<1	<1	<1	<1	<1

Attachment/s:

Abbreviations:

C indicates that NATA Chemical Accreditation is held for the test.

M indicates that NATA Biological Accreditation is held for the test.

- indicates NATA accreditation is not held for the test.

E indicates the test was performed by an external laboratory (refer to attachment/s).

LOR: Limit of Reporting; NT: Not tested; ND: Not detected; NS: No sample; NA: Not assigned, test not requested; NR: Not Reported; EST: estimated count

Bold: Result is outside acceptance limits.

The laboratory welcomes your feedback on our performance. Please send your comments to bob.sheedy@unitywater.com

RTI DL RELEASE - EHP

Clarke Jenny

From: Hamish Baird [hamish@roofley.com]
Sent: Wednesday, 12 December 2012 1:23 PM
To: Clarke Jenny
Cc: murray@roofley.com; Clough Leonie; caboolture@roofley.com
Subject: Fw: Results for registration 'UMB122758 - Caboolture Caravan Park'
Attachments: UMB122758-[R00].pdf; UMB122758.XLSX

Hi Jenny,

Please find attached this month's test results. We did record a TKP reading of 1.23 eventhough all other recording are shown improvements.

Our consultant has provided the following feedback on these results:

"We note the TKP reading exceeds the limit, we are still working on this issue , as you are well aware from experience with theses type of systems it is nearly impossible to control all parameters all the time , being a caravan park we experience large spikes at all different times , and a small plant has no buffering, have said that we are still working with the system and making changes all the time ,this is obvious by all the results we now achieve as compared to some years prior . We will be making further changes to the coagulation process to help reduce the P."

Please let me know if you require more information.

Regards,
Hamish

Hamish Baird
Operations Manager
Roofley Property Group Pty Ltd

PO Box 584, Deception Bay QLD 4508

P 07 3203 2032

sch4(6) Personal information

F 07 3293 2315

Caboolture River Caravan Park - Endeavour Caravan Park - Four Star Caravan Park

----- Original Message -----

From: Bob Sheedy

To: roofleyptyltd@exemail.com.au

Sent: Tuesday, December 11, 2012 11:07 AM

Subject: Results for registration 'UMB122758 - Caboolture Caravan Park'

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RTI DL RELEASE - EHP

Unitywater Laboratory - Moreton Bay
 67 Weier Rd, Morayfield
 P.O. Box 953 Caboolture Qld 4510
 Phone: (07) 5420 0720
 Fax: (07) 5420 0716
 E-mail: labstaff@unitywater.com

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REPORT NUMBER: UMB122758 - 00

Final Report

ISSUE DATE: 11/12/12

REGISTRATION DETAILS

JOB DESCRIPTION: Caboolture Caravan Park
JOB REFERENCE: UMB122758
REGISTRATION DATE: 5/12/2012
SAMPLE DATE: 5/12/2012

CUSTOMER DETAILS

NAME: Caboolture Caravan Park
ADDRESS: 26 Burnett Road
 Caboolture QLD 4510

Signatories and Report Authorisation:

This document has been electronically signed by the authorised approver / signatory indicated below.
 Electronic signing has been carried out in compliance with procedures specified in MQ007 and CQ03.

Signatory / Approver *Accreditation Category*

Andrea Cobb Biological
 Nicholas Heeney Chemical

 Mark Scott Chemical

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted.

Analyte	NATA	Method	LOR	Units	Caboolture Caravan Park 5/12/2012 10:50
Chlorine Free	C	FM11	0.1	mg/L	<0.1
pH	C	FM03	1	pHU	8.2
Conductivity	C	FM01	5	µS/cm	554
Dissolved Oxygen	C	FM02	1	mg/L	6.00
Turbidity	C	FM04	1	NTU	5

Analyte	NATA	Method	LOR	Units	Caboolture Caravan Park 5/12/2012 10:50
BOD	C	TM02	3	mg/L	<3
COD	C	TM43	10	mg/L	16
Suspended Solids	C	TM12	2	mg/L	<2

Analyte	NATA	Method	LOR	Units	Caboolture Caravan Park 5/12/2012 10:50
Ammonia N	C	TM22F	0.02	mg/L	17.9
NOx	C	TM23F	0.02	mg/L	0.47
TKN	C	TM26F	0.5	mg/L	19.2
TKP	C	TM16TKP	0.02	mg/L	1.23
Organic N	C	TM25F	0.5	mg/L	1.3
Total Nitrogen	C	TM25F	0.5	mg/L	19.7

Analyte	NATA	Method	LOR	Units	CCP Faecal 1 5/12/2012 08:00	CCP Faecal 2 5/12/2012 08:30	CCP Faecal 3 5/12/2012 09:00	CCP Faecal 4 5/12/2012 09:30
Faecal Coliforms	M	MM002	1	cfu/100mL	<1	<1	<1	<1

Analyte	NATA	Method	LOR	Units	CCP Faecal 5 5/12/2012 10:00
Faecal Coliforms	M	MM002	1	cfu/100mL	<1

Attachment/s:

NATA Accreditation:

C NATA Chemical Accreditation is held for the test.**M** NATA Biological Accreditation is held for the test.**-** NATA accreditation is not held for the test.

USC Lab analysis conducted at Unitywater Sunshine Coast Laboratory (NATA Accreditation 16643)

USC* Lab analysis conducted at Unitywater Sunshine Coast Laboratory (No NATA Accreditation)

E External Laboratory (refer to attachment/s).

Abbreviations

LOR: Limit of Reporting; NT: Not tested; ND: Not detected; NS: No sample; NA: Not assigned, test not requested; NR: Not Reported; EST: estimated count

Bold: Result is outside acceptance limits.The laboratory welcomes your feedback on our performance. Please send your comments to bob.sheedy@unitywater.com

water

water Laboratory - Moreton Bay

Weier Rd, Morayfield
P.O. Box 953 Caboolture Qld 4510
Phone: (07) 5420 0720
Fax: (07) 5420 0716
E-mail: labstaff@unitywater.com



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REPORT NUMBER: UMB122520 - 00

Final Report

ISSUE DATE: 12/11/12

REGISTRATION DETAILS

JOB DESCRIPTION: Caboolture Caravan Park
JOB REFERENCE: UMB122520
REGISTRATION DATE: 7/11/2012
SAMPLE DATE: 7/11/2012

CUSTOMER DETAILS

NAME: Caboolture Caravan Park
ADDRESS: 26 Burnett Road
Caboolture QLD 4510

Signatories and Report Authorisation:

This document has been electronically signed by the authorised approver / signatory indicated below.
Electronic signing has been carried out in compliance with procedures specified in MQ007 and CQ03.

Signatory / Approver Accreditation Category

Andrea Cobb Biological

Mark Scott Chemical

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted.

Analyte	NATA	Method	LOR	Units	Caboolture Caravan Park 7/11/2012 10:50
Chlorine Free	C	FM11	0.1	mg/L	0.1 ✓
pH	C	FM03	1	pHU	7.8 ✓
Conductivity	C	FM01	5	µS/cm	831
Dissolved Oxygen	C	FM02	1	mg/L	5.96 ✓
Turbidity	C	FM04	1	NTU	<1 ✓

Analyte	NATA	Method	LOR	Units	Caboolture Caravan Park 7/11/2012 10:50
BOD	C	TM02	3	mg/L	<3 ✓
COD	C	TM43	10	mg/L	38
Suspended Solids	C	TM12	2	mg/L	5 ✓

Analyte	NATA	Method	LOR	Units	Caboolture Caravan Park 7/11/2012 10:50
Ammonia N	C	TM22F	0.02	mg/L	28.9
NOx	C	TM23F	0.02	mg/L	0.44
TKN	C	TM26F	0.5	mg/L	28.9
TKP	C	TM16TKP	0.02	mg/L	0.19 ✓
Organic N	C	TM25F	0.5	mg/L	<0.5
Total Nitrogen	C	TM25F	0.5	mg/L	29.4

Analyte	NATA	Method	LOR	Units	CCP Faecal 1 7/11/2012 08:00	CCP Faecal 2 7/11/2012 08:30	CCP Faecal 3 7/11/2012 09:00	CCP Faecal 4 7/11/2012 09:30
Faecal Coliforms	M	MM002	1	cfu/100mL	<1	<1	<1	<1

Analyte	NATA	Method	LOR	Units	CCP Faecal 5 7/11/2012 10:00
Faecal Coliforms	M	MM002	1	cfu/100mL	<1

Attachment/s:

NATA Accreditation:

- C** NATA Chemical Accreditation is held for the test.
M NATA Biological Accreditation is held for the test.
 - NATA accreditation is not held for the test.
 USC Lab analysis conducted at Unitywater Sunshine Coast Laboratory (NATA Accreditation 16643)
 USC* Lab analysis conducted at Unitywater Sunshine Coast Laboratory (No NATA Accreditation)
E External Laboratory (refer to attachment/s).

Abbreviations

LOR: Limit of Reporting; NT: Not tested; ND: Not detected; NS: No sample; NA: Not assigned, test not requested; NR: Not Reported; EST: estimated count

Bold: Result is outside acceptance limits.

The laboratory welcomes your feedback on our performance. Please send your comments to bob.sheedy@unitywater.com

Reference	Description	Sample Description	Sample No.	Replicate	QC Type	Sample Date	Sample Time	Chlorine Free CHLORINE_FR	pH PH	Conductivity CONDUCTIVITY	Dissolved Oxygen DO	Turbidity TURBIDITY	BOD BOD
Units								mg/L	pHU	µS/cm	mg/L	NTU	mg/L
PQL								0.1	1	5	1	1	3
Method								FM11	FM03	FM01	FM02	FM04	TM02
UMB12252	(Caboolture	Caboolture	1	0	Regular	7/11/2012	10:50	0.1	7.8	831	5.96	<1	<3
UMB12252	(Caboolture	CCP Faecal	2	0	Regular	7/11/2012	8:00						
UMB12252	(Caboolture	CCP Faecal	3	0	Regular	7/11/2012	8:30						
UMB12252	(Caboolture	CCP Faecal	4	0	Regular	7/11/2012	9:00						
UMB12252	(Caboolture	CCP Faecal	5	0	Regular	7/11/2012	9:30						
UMB12252	(Caboolture	CCP Faecal	6	0	Regular	7/11/2012	10:00						

RTI DL RELEASE - EHP

COD	Suspended Sol	Ammonia N	NOx	TKN	TKP	Organic N	Total Nitrogen	Fecal Coliforms
COD	SUSPENDED_S	AMMONIA_N	NOX	TKN	TKP	ORGANIC_N	TOTAL_N	FECAL_COLI_MF
mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	cfu/100mL
10	2	0.02	0.02	0.5	0.02	0.5	0.5	1
TM43	TM12	TM22F	TM23F	TM26F	TM16TKP	TM25F	TM25F	MM002

38	5	28.9	0.44	28.9	0.19	<0.5	29.4	<1
								<1
								<1
								<1
								<1

RTI DL RELEASE - EHP

RECEIVED

19 DEC 2012

PALM

Annual Return

Environmental Protection Act 1994

Registration Certificate

OFFICIAL USE ONLY
DATE RECEIVED:

FILE REF:

PROJECT REF:

COMPLETE FORM:



ADMINISTERING REGION:

ENTERED BY (SIGNATURE):

DATE:

Important information for holders of a Registration Certificate

This form must be completed and submitted to the administering authority each year by the holder of a Registration Certificate and submitted with the appropriate payment under the *Environmental Protection Act 1994*.

For help in completing this form please refer to the **Guidance Notes** on the left of each page or if you have any questions about this annual return or any supporting information required please contact Permit and Licence Management on 1300 130 372.

The completed Annual Return is to be sent to: Permit and Licence Management, Implementation and Support Unit, Department of Environment and Heritage Protection, GPO Box 2454, Brisbane Qld 4001.

Annual Return details for 20 Dec 2011 to 19 Dec 2012

GUIDANCE NOTES

List the full names of the holders of the Registration Certificate. Where there is more than one please list all.

Minor changes, such as change of name or amendment by agreement. A change of name and a change in ABN/ACN will require an application to amend the Registration Certificate.

Please contact Permit and Licence Management on 1300 130 372 for more information.

1. Registration Certificate Holders Name

NAME(S):

Roofley Pty. Ltd.
Trading as t/a Caboolture Caravan Park

2. Registration Certificate Number

NUMBER(S):

ENRE00764008

RECEIVED / REGISTERED

Dept of Environment and Heritage Protection
Moreton Bay

- 9 JAN 2013

File #:

50R/117555

Item #:

1970460

Release



Annual Return Registration Certificate

5. Do you have a copy of the Development Approval/s or Code of Environmental Compliance to which your Registration Certificate applies?

☒ YES

☐ NO

6. Have any of the activities on your Registration Certificate altered since the time it was issued?

☐ YES

→ Your Development Approval and Registration Certificate may need to be amended. Contact Permit and Licence Management for advice.

☒ NO

7. Does your Registration Certificate include an activity with an aggregate environmental score?

☒ YES

→ Go to question 8.

☐ NO

→ Go to question 9.

8. Are you claiming a reduced annual fee under sections 121-127 of the Environmental Protection Regulation 2008?

☐ YES

→ A reduced annual fee cannot be claimed unless Appendix A - Claiming a reduced annual fee is completed. Please complete Appendix A and return it together with this annual return form.

☒ NO

For details of the eligibility criteria please refer to the information sheet *Paying a reduced annual fee* which is available from the department's website.

NOTE: The reduced annual fee does not apply if the annual return and fees are not submitted by the due date or if there is no aggregate environmental score.

Annual Return

Registration Certificate

Section 320 of the EP Act imposes a duty on the holder of a Registration Certificate to report serious or material environmental harm caused or threatened in the carrying out of an activity unless that harm is specifically authorised under a Development Approval or Code of Environmental Compliance.

9. Since your last annual return, have you fully complied with the conditions of your Development Approval or Code of Environmental Compliance and your general environmental duty?

☐ YES

☒ NO → For each condition of the DA or Code of Environmental Compliance with which the holder has not complied, please attach the following

- a) a statement of whether or not the non-compliance/incident has been previously reported;
- b) a statement describing the non-compliance/incident including photographs where appropriate;
- c) a statement describing the environmental impacts resulting from the non-compliance/incident;
- d) a statement describing the actions taken to repair any damage to the environment resulting from the non-compliance/incident

☒ Tick to indicate that the required statements are attached

Please do not submit an annual report, required by a condition of an DA or Code of Environmental Compliance, with this annual return. Annual reports are to be stored for viewing upon request.

10. Does a condition of your Development Approval or Code of Environmental Compliance require you to carry out any monitoring and/or prepare reports on the activities for which you hold a Registration Certificate?

☒ YES

☐ NO → Go to question 15.

Monitoring data that has been submitted electronically to the Point Source Data Base in accordance with a written agreement with the department does not need to be resubmitted.

11. Do you provide reports directly to the point source database?

☐ YES → Go to question 16, if no other monitoring is required to be undertaken.

☒ NO

All reports must be held in the same place and be available for inspection by the administering authority during business hours. You must forward the reports on request or when the Registration Certificate has been surrendered or cancelled.

12. Has all of the necessary environmental monitoring been carried out and all the reports prepared in accordance with your Development Approval or Code of Environmental Compliance?

☒ YES

☐ NO → Provide details below explaining why this has not occurred. If you require more space, attach additional information.

Annual Return

Registration Certificate

16. Have the details of your waste vehicles changed from the list provided in the Annual Notice?

- ☐ YES → Complete table below including the details of all vehicles to be covered by this Registration Certificate. Attach additional information if required.
- ☐ NO

Table 2 - Waste Vehicle Details

Status - existing, new, removed	Type of vehicle e.g. tanker, truck	Make of vehicle	Year of manufacture	Vehicle registration number

Note: ERA 57 - Regulated waste transport contains three thresholds, 57-(2a), 57-(2b) and 57-(2c). These thresholds represent the number of vehicles that a holder of a Registration Certificate may operate and the annual fees change according to the threshold. If the number of vehicles listed on your Registration Certificate falls above or below your listed activity you are required to amend your Registration Certificate.

17. The fee for ERA 57 - Regulated waste transport is based on the number of vehicles on your Registration Certificate. If you increase or decrease the number of vehicles, this may result in a change to the fee payable. Where a change in the number of vehicles has changed the ERA threshold which applies, your Registration Certificate will be amended. Please tick the boxes below to signify your agreement to this action being taken by the administering authority on the basis of the information you have provided in this annual return.

The fees payable are: ERA Threshold 57-(2a) Regulated waste transport 1 to 5 vehicles \$1545.6, 57-(2b) Regulated waste transport 6 to 35 vehicles \$4636.8, 57-(2c) Regulated waste transport > 36 vehicles \$9273.6.

- ☐ I agree to amendments to my Registration Certificate to reflect the change in accordance with the number of vehicles listed in this return and understand that this may change my obligations under the Code of Environmental Compliance.
- ☐ I have paid a reduced/increased fee for the coming year in accordance with the number of vehicles listed in this return.



PO Box 584, Deception Bay Qld 4508

P - 07 3203 2032

F - 07 3293 2315

roofleyptyltd@exemail.com.au

19 December 2012

Permit & Licence Management
Department of Environment & Heritage Protection
GPO Box 2454
BRISBANE QLD 4001

To whom it may concern,

STATEMENT OF NON-COMPLIANCE

For the period of the Annual Return 20 Dec 2011 to 20 Dec 2012, the monthly Water Quality Analysis has provided the following results (each test is attached):

Analyte	4Jan12	1Feb12	7Mar12	4Apr12	2May12	8Jun12	4Jul12	1Aug12	9Sep12	26Sep12	3Oct12	7Nov12	5Dec12
Free Chlorine	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
pH	7.5	7.6	8.2	8.5	8.3	7.9	7.8	7.8	8.1	7.8	7.2	7.8	8.2
Conductivity	576	330	395	694	478	482	502	802	639	777	952	831	554
Dissolved Oxygen	5.15	7.26	7.32	6.77	6.95	9.39	10.56	11.05	9.74	7.84	3.17	5.98	6
Turbidity	14	14	16	16	12	15	23	51	11	3	8	1	5
BOD	3	3	3	14	3	NR	NR	3	3	3	3	3	3
COD	39	57	32	40	30	69	62	69	43	32	33	38	16
Suspended Solids	17	16	11	14	14	15	24	47	14	5	9	5	2
Ammonia N	1.22	0.28	0.35	8.4	1.04	1.13	4.3	31.6	26.1	30.9	48.4	28.9	17.9
Nox	0.52	0.36	1.71	0.52	2.5	0.8	0.35	0.22	0.31	0.38	0.22	0.44	0.47
TKN	4.9	2.7	1.7	10.1	2.5	3.5	6	32.8	28.1	34.3	55.8	28.9	19.2
TKP	7.1	1.43	0.84	5.87	0.47	0.68	1.6	2.27	3.58	0.4	1.21	0.19	1.23
Organic N	3.7	2.4	1.4	1.7	1.5	2.4	1.7	1.2	2	3.4	7.4	0.5	1.3
Total Nitrogen	5.4	3	3.4	10.6	3.5	4.3	6.3	33	28.4	34.7	56	29.4	19.7
Faecal Coliforms	10	10	10	24	10	10	1	10	10	NR	1	1	1

During the reported period, the only measure we have failed to comply is TKP, with 8 of the 13 test results showing in excess of the 1.00 limit. Each failed test result has been separately reported to DERM, via email to Jenny Clarke or Leonie Clough.

To improve our confidence in the Sewerage Treatment Plant (STP), we have continue to engaged the services of a consultant to check the STP on a monthly basis, which generally coincides with the above mentioned test dates. The consultant we have engaged, Peter Stuart (Filtration Australia) has provided the following feedback;

"As you are well aware from experience with theses type of systems it is nearly impossible to control all parameters all the time, being a caravan park we experience large spikes at all different times, and a small plant has no buffering, having said that we are still working with the system and making changes all the time, this is obvious by all the results we now achieve as compared to some years prior. We will be making further changes to the coagulation process to help reduce the Phosphorous."

Please let me know if you require more information.

Yours sincerely,

sch4p4(6) Personal information

Murray Woolnough
Director
Roofley Pty Ltd

RTI DL RELEASE - EHP



Initywater

Initywater Laboratory - Moreton Bay

7 Weier Rd, Morayfield

P.O. Box 953 Caboolture Qld 4510

Phone: (07) 5420 0720

Fax: (07) 5420 0716

E-mail: labstaff@initywater.com



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Final Report

ISSUE DATE: 7/02/12

CUSTOMER DETAILS

NAME: Caboolture Caravan Park

ADDRESS: 26 Burnett Road
Caboolture QLD 4510

REPORT NUMBER: UMB120229 - 00

REGISTRATION DETAILS

JOB DESCRIPTION: Caboolture Caravan Park

JOB REFERENCE: UMB120229

REGISTRATION DATE: 1/02/2012

SAMPLE DATE: 1/02/2012

Signatories and Report Authorisation:

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Electronic signing has been carried out in compliance with procedures specified in MQ007, CQ07 and CQ03.

Signatory / Approver Accreditation Category

Dawn Hadfield Biological
Nicholas Heeney Chemical

Mark Scott Chemical

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted.

Analyte		Method	LOR	Units	Caboolture Caravan Park 1/02/2012 10:40
Free Chlorine	C	FM11	0.1	mg/L	<0.1
	C	FM03	1	pH	7.6
Conductivity	C	FM01	1	µS/cm	330
Dissolved Oxygen	C	FM02	1	mg/L	7.26
Turbidity	C	FM04	1	NTU	14
BOD	C	TM02	3	mg/L	<3
COD	C	TM43	10	mg/L	57
Suspended Solids	C	TM12	2	mg/L	16



Jnitywater

Jnitywater Laboratory - Moreton Bay

57 Weier Rd, Morayfield

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E-mail: labstaff@jnitywater.com

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REPORT NUMBER: UMB120494 - 00

Final Report

ISSUE DATE: 13/03/12

REGISTRATION DETAILS

JOB DESCRIPTION: Caboolture Caravan Park

JOB REFERENCE: UMB120494

REGISTRATION DATE: 7/03/2012

SAMPLE DATE: 7/03/2012

CUSTOMER DETAILS

NAME: Caboolture Caravan Park

ADDRESS: 26 Burnett Road
Caboolture QLD 4510

Signatories and Report Authorisation:

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Electronic signing has been carried out in compliance with procedures specified in MQ007, CQ07 and CQ03.

Signatory / Approver Accreditation Category

Andrea Cobb
Nicholas HeeneyBiological
Chemical

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted.

Analyte		Method	LOR	Units	Caboolture Caravan Park 7/03/2012 10:40
Free Chlorine	C	FM11	0.1	mg/L	<0.1
pH	C	FM03	1	pHU	8.2
Conductivity	C	FM01	1	µS/cm	395
Dissolved Oxygen	C	FM02	1	mg/L	7.32
Turbidity	C	FM04	1	NTU	16

Analyte		Method	LOR	Units	Caboolture Caravan Park 7/03/2012 10:40
BOD	C	TM02	3	mg/L	<3
COD	C	TM43	10	mg/L	32
Suspended Solids	C	TM12	2	mg/L	11

Report No: UMB120494 - 00

Analyte		Method	LOR	Units	Caoolture Caravan Park 7/03/2012 10:40
Ammonia N	C	TM22F	0.02	mg/L	0.35
NOx	C	TM23F	0.02	mg/L	1.71
TKN	C	TM26F	0.5	mg/L	1.7
TKP	C	TM16TKP	0.02	mg/L	0.84
Organic N	C	TM25F	0.5	mg/L	1.4
Total Nitrogen	C	TM25F	0.5	mg/L	3.4

Analyte		Method	LOR	Units	CCP Faecal 1 7/03/2012 08:00	CCP Faecal 2 7/03/2012 08:30	CCP Faecal 3 7/03/2012 09:00	CCP Faecal 4 7/03/2012 09:30	CCP Faecal 5 7/03/2012 10:00
Faecal Coliforms	M	MM002	1	cfu/100mL	<10	<10	<10	<10	<10

Attachment/s:

Abbreviations:

C indicates that NATA Chemical Accreditation is held for the test.

M indicates that NATA Biological Accreditation is held for the test.

- indicates NATA accreditation is not held for the test.

E indicates the test was performed by an external laboratory (refer to attachment/s).

LOR: Limit of Reporting; NT: Not tested; ND: Not detected; NS: No sample; NA: Not assigned; test not requested; NR: Not Reported

Bold: Result is outside acceptance limits.

The laboratory welcomes your feedback on our performance. Please send your comments to bob.sheedy@unitywater.com



Unitywater Laboratory - Moreton Bay
 67 Weier Rd, Morayfield
 P.O. Box 953 Caboolture Qld 4510
 Phone: (07) 5420 0720
 Fax: (07) 5420 0716
 E-mail: labstaff@unitywater.com



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REPORT NUMBER: UMB120707 - 00

Final Report

ISSUE DATE: 12/04/12

REGISTRATION DETAILS

JOB DESCRIPTION: Caboolture Caravan Park
JOB REFERENCE: UMB120707
REGISTRATION DATE: 4/04/2012
SAMPLE DATE: 4/04/2012

CUSTOMER DETAILS

NAME: Caboolture Caravan Park
ADDRESS: 26 Burnett Road
 Caboolture QLD 4510

Signatories and Report Authorisation:

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Signatory / Approver *Accreditation Category*

Andrea Cobb Biological
 Nicholas Heeney Chemical

Mark Scott Chemical

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted.

Analyte		Method	LOR	Units	Caboolture Caravan Park 4/04/2012 10:30
Free Chlorine	C	FM11	0.1	mg/L	<0.1
pH	C	FM03	1	pH	8.5
Conductivity	C	FM01	1	µS/cm	694
Dissolved Oxygen	C	FM02	1	mg/L	6.77
Turbidity	C	FM04	1	NTU	16

Analyte		Method	LOR	Units	Caboolture Caravan Park 4/04/2012 10:30
BOD	C	TM02	3	mg/L	14
COD	C	TM43	10	mg/L	40
Suspended Solids	C	TM12	2	mg/L	14

ReportNo: UMB120707 00

Unitywater Laboratory - Moreton Bay

Analyte		Method	LOR	Units	Caboolture Caravan Park 4/04/2012 10:30
Ammonia N	C	TM22F	0.02	mg/L	8.4
NOx	C	TM23F	0.02	mg/L	0.52
TKN	C	TM26F	0.5	mg/L	10.1
TKP	C	TM16TKP	0.02	mg/L	5.87
Organic N	C	TM25F	0.5	mg/L	1.7
Total Nitrogen	C	TM25F	0.5	mg/L	10.6

Analyte		Method	LOR	Units	CCP Faecal 1 4/04/2012 08:00	CCP Faecal 2 4/04/2012 08:30	CCP Faecal 3 4/04/2012 09:00	CCP Faecal 4 4/04/2012 09:30	CCP Faecal 5 4/04/2012 10:00
Faecal Coliforms	M	MM002	1	cfu/100mL	8	6	11	24	22

Results for MM002 are presumptive counts only.

Attachment/s:

Abbreviations:

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- indicates NATA accreditation is not held for the test.

E indicates the test was performed by an external laboratory (refer to attachment/s).

LOR: Limit of Reporting; NT: Not tested; ND: Not detected; NS: No sample; NA: Not assigned, test not requested; NR: Not Reported; EST: estimated count

Bold: Result is outside acceptance limits.

The laboratory welcomes your feedback on our performance. Please send your comments to bob.sheedy@unitywater.com



Jnitywater

Jnitywater Laboratory - Moreton Bay

37 Weier Rd, Morayfield

P.O. Box 953 Caboolture Qld 4510

Phone: (07) 5420 0720

Fax: (07) 5420 0716

E-mail: labstaff@jnitywater.com

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REPORT NUMBER: UMB120914 - 00**Final Report****ISSUE DATE: 8/05/12****REGISTRATION DETAILS****JOB DESCRIPTION:** Caboolture Caravan Park**JOB REFERENCE:** UMB120914**REGISTRATION DATE:** 2/05/2012**SAMPLE DATE:** 2/05/2012**CUSTOMER DETAILS****NAME:** Caboolture Caravan Park**ADDRESS:** 26 Burnett Road

Caboolture QLD 4510

Signatories and Report Authorisation:This document has been electronically signed by the authorised approver / signatory indicated below.
Electronic signing has been carried out in compliance with procedures specified in MQ007, CQ07 and CQ03.**Signatory / Approver** **Accreditation Category**

Simon Jonker Biological

Mark Scott Chemical

Arlene Yarrow Chemical

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted.

Analyte		Method	LOR	Units	Caboolture Caravan Park 2/05/2012 10:50
Chlorine	C	FM11	0.1	mg/L	<0.1
pH	C	FM03	1	pHU	8.3
Conductivity	C	FM01	1	µS/cm	476
Dissolved Oxygen	C	FM02	1	mg/L	6.95
Turbidity	C	FM04	1	NTU	12

Analyte		Method	LOR	Units	Caboolture Caravan Park 2/05/2012 10:50
BOD	C	TM02	3	mg/L	<3
COD	C	TM43	10	mg/L	30
Suspended Solids	C	TM12	2	mg/L	14

Report No: UMB120914 - 00

Analyte		Method	LOR	Units	Caboolture Caravan Park 2/05/2012 10:50
Ammonia N	C	TM22F	0.02	mg/L	1.04
NOx	C	TM23F	0.02	mg/L	0.97
TKN	C	TM26F	0.5	mg/L	2.5
TKP	C	TM16TKP	0.02	mg/L	0.47
Organic N	C	TM25F	0.5	mg/L	1.5
Total Nitrogen	C	TM25F	0.5	mg/L	3.5

Analyte		Method	LOR	Units	CCP Faecal 1 2/05/2012 08:00	CCP Faecal 2 2/05/2012 08:30	CCP Faecal 3 2/05/2012 09:00	CCP Faecal 4 2/05/2012 09:30	CCP Faecal 5 2/05/2012 10:00
Faecal Coliforms	M	MM002	1	cfu/100mL	<10	<10	<10	<10	10 EST

Attachment/s:

Abbreviations:

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3old; Result is outside acceptance limits.

The laboratory welcomes your feedback on our performance. Please send your comments to bob.sheedy@unitywater.com



Jnitywater

Jnitywater Laboratory - Moreton Bay

37 Weler Rd, Morayfield

P.O. Box 953 Caboolture Qld 4510

Phone: (07) 5420 0720

Fax: (07) 5420 0718

E-mail: labstaff@jnitywater.com

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REPORT NUMBER: UMB121199 - 00

Final Report

ISSUE DATE: 12/06/12

REGISTRATION DETAILS

JOB DESCRIPTION: Caboolture Caravan Park

JOB REFERENCE: UMB121199

REGISTRATION DATE: 6/06/2012

SAMPLE DATE: 6/06/2012

CUSTOMER DETAILS

NAME: Caboolture Caravan Park

ADDRESS: 26 Burnett Road

Caboolture QLD 4510

Signatories and Report Authorisation:

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Electronic signing has been carried out in compliance with procedures specified in MQ007, CQ07 and CQ03.

Signatory / Approver Accreditation Category

Andrea Cobb Biological

Arlene Yarrow Chemical

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted.

Analyte		Method	LOR	Units	Caboolture Caravan Park 6/06/2012 10:50
Chlorine	C	FM11	0.1	mg/L	<0.1
pH	C	FM03	1	pHU	7.9
Conductivity	C	FM01	1	µS/cm	482
Dissolved Oxygen	C	FM02	1	mg/L	9.39
Turbidity	C	FM04	1	NTU	15

Analyte		Method	LOR	Units	Caboolture Caravan Park 6/06/2012 10:50
BOD	C	TM02	3	mg/L	NR
COD	C	TM43	10	mg/L	69
Suspended Solids	C	TM12	2	mg/L	15

Report No: UMB121199 - 00

Analyte		Method	LOR	Units	Caboolture Caravan Park 6/06/2012 10:50
Ammonia N	C	TM22F	0.02	mg/L	1.13
NOx	C	TM23F	0.02	mg/L	0.80
TKN	C	TM26F	0.5	mg/L	3.5
TKP	C	TM16TKP	0.02	mg/L	0.68
Organic N	C	TM25F	0.5	mg/L	2.4
Total Nitrogen	C	TM25F	0.5	mg/L	4.3

Analyte		Method	LOR	Units	CCP Faecal 1 6/06/2012 08:00	CCP Faecal 2 6/06/2012 08:30	CCP Faecal 3 6/06/2012 09:00	CCP Faecal 4 6/06/2012 09:30	CCP Faecal 5 6/06/2012 10:00
Faecal Coliforms	M	MM002	1	cfu/100mL	<10	<10	<10	<10	<10

BOD5 not reported due to sample matrix interference.

Attachment/s:

Abbreviations:

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. indicates NATA accreditation is not held for the test.

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Bold: Result is outside acceptance limits.

The laboratory welcomes your feedback on our performance. Please send your comments to bob.sheedy@unitywater.com



Unitywater Laboratory - Moreton Bay
 67 Weier Rd, Morayfield
 P.O. Box 953 Caboolture Qld 4510
 Phone: (07) 5420 0720
 Fax: (07) 5420 0716
 E-mail: labstaff@unitywater.com



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REPORT NUMBER: UMB121417 - 00

Final Report
ISSUE DATE: 9/07/12

REGISTRATION DETAILS

JOB DESCRIPTION: Caboolture Caravan Park
JOB REFERENCE: UMB121417
REGISTRATION DATE: 4/07/2012
SAMPLE DATE: 4/07/2012

CUSTOMER DETAILS

NAME: Caboolture Caravan Park
ADDRESS: 26 Burnett Road
 Caboolture QLD 4510

Signatories and Report Authorisation:

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Signatory / Approver **Accreditation Category**

Simon Jonker Biological
 Nicholas Heeney Chemical

Toni Hungerford Chemical

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted.

Analyte		Method	LOR	Units	Caboolture Caravan Park 4/07/2012 11:20
Free Chlorine	C	FM11	0.1	mg/L	<0.1
pH	C	FM03	1	pHU	7.8
Conductivity	C	FM01	1	µS/cm	502
Dissolved Oxygen	C	FM02	1	mg/L	10.56
Turbidity	C	FM04	1	NTU	23

Analyte		Method	LOR	Units	Caboolture Caravan Park 4/07/2012 11:20
BOD	C	TM02	3	mg/L	NR
COD	C	TM43	10	mg/L	62
Suspended Solids	C	TM12	2	mg/L	24

ReportNo: UMB121417 00

Unitywater Laboratory - Moreton Bay

Analyte		Method	LOR	Units	Caboolture Caravan Park 4/07/2012 11:20
Ammonia N	C	TM22F	0.02	mg/L	4.3
NOx	C	TM23F	0.02	mg/L	0.35
TKN	C	TM26F	0.5	mg/L	6.0
TKP	C	TM16TKP	0.02	mg/L	1.60
Organic N	C	TM25F	0.5	mg/L	1.7
Total Nitrogen	C	TM25F	0.5	mg/L	6.3

Analyte		Method	LOR	Units	CCP Faecal 1 4/07/2012 08:00	CCP Faecal 2 4/07/2012 08:30	CCP Faecal 3 4/07/2012 09:00	CCP Faecal 4 4/07/2012 09:30	CCP Faecal 5 4/07/2012 10:00
Faecal Coliforms	M	MM002	1	cfu/100mL	1 EST	6 EST	3 EST	4 EST	<1

BOD not reported as DO2 > DO1.

Attachment/s:

Abbreviations:

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Bold: Result is outside acceptance limits.

The laboratory welcomes your feedback on our performance. Please send your comments to bob.sheedy@unitywater.com



Unitywater Laboratory - Moreton Bay
 67 Weier Rd, Morayfield
 P.O. Box 953 Caboolture Qld 4510
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REPORT NUMBER: UMB121651 - 00

Final Report

ISSUE DATE: 6/08/12

REGISTRATION DETAILS

JOB DESCRIPTION: Caboolture Caravan Park
JOB REFERENCE: UMB121651
REGISTRATION DATE: 1/08/2012
SAMPLE DATE: 1/08/2012

CUSTOMER DETAILS

NAME: Caboolture Caravan Park
ADDRESS: 26 Burnett Road
 Caboolture QLD 4510

Signatories and Report Authorisation:

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Signatory / Approver **Accreditation Category**

Simon Jonker Biological
 Nicholas Heeney Chemical

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted.

Analyte		Method	LOR	Units	Caboolture Caravan Park 1/08/2012 10:40
Free Chlorine	C	FM11	0.1	mg/L	<0.1
pH	C	FM03	1	pHU	7.8
Conductivity	C	FM01	5	µS/cm	802
Dissolved Oxygen	C	FM02	1	mg/L	11.05
Turbidity	C	FM04	1	NTU	51

Analyte		Method	LOR	Units	Caboolture Caravan Park 1/08/2012 10:40
BOD	C	TM02	3	mg/L	<3
COD	C	TM43	10	mg/L	69
Suspended Solids	C	TM12	2	mg/L	47

Report No: UMB121651 - 00

Unitywater Laboratory - Moreton Bay

Analyte		Method	LOR	Units	Caboolture Caravan Park 1/08/2012 10:40
Ammonia N	C	TM22F	0.02	mg/L	31.6
NOx	C	TM23F	0.02	mg/L	0.22
TKN	C	TM26F	0.5	mg/L	32.8
TKP	C	TM16TKP	0.02	mg/L	2.27
Organic N	C	TM25F	0.5	mg/L	1.2
Total Nitrogen	C	TM25F	0.5	mg/L	33.0

Analyte		Method	LOR	Units	CCP Faecal 1 1/08/2012 08:00	CCP Faecal 2 1/08/2012 08:30	CCP Faecal 3 1/08/2012 09:00	CCP Faecal 4 1/08/2012 09:30	CCP Faecal 5 1/08/2012 10:00
Faecal Coliforms	M	MM002	1	cfu/100mL	<10	<10	<10	10EST	<10

Attachment/s:

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Bold: Result is outside acceptance limits.

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Jnitywater

Jnitywater Laboratory - Moreton Bay

37 Weier Rd, Morayfield

P.O. Box 953 Caboolture Qld 4510

Phone: (07) 5420 0720

Fax: (07) 5420 0716

E-mail: labstaff@jnitywater.com

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REPORT NUMBER: UMB121939 - 00**Final Report****ISSUE DATE: 10/09/12****REGISTRATION DETAILS****JOB DESCRIPTION:** Caboolture Caravan Park**JOB REFERENCE:** UMB121939**REGISTRATION DATE:** 5/09/2012**SAMPLE DATE:** 5/09/2012**CUSTOMER DETAILS****NAME:** Caboolture Caravan Park**ADDRESS:** 26 Burnett Road

Caboolture QLD 4510

Signatories and Report Authorisation:

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Electronic signing has been carried out in compliance with procedures specified in MQ007 and CQ03.

Signatory / Approver	Accreditation Category
Andrea Cobb	Biological
Mark Scott	Chemical

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted.

Analyte		Method	LOR	Units	Caboolture Caravan Park 5/09/2012 10:50
Chlorine Free	C	FM11	0.1	mg/L	<0.1
pH	C	FM03	1	pHU	8.1
Conductivity	C	FM01	5	µS/cm	639
Dissolved Oxygen	C	FM02	1	mg/L	9.74
Turbidity	C	FM04	1	NTU	11

Analyte		Method	LOR	Units	Caboolture Caravan Park 5/09/2012 10:50
BOD	C	TM02	3	mg/L	<3
COD	C	TM43	10	mg/L	43
Suspended Solids	C	TM12	2	mg/L	14

Report No: UMB121939 00

Analyte		Method	LOR	Units	Caboolture Caravan Park 5/09/2012 10:50
Ammonia N	C	TM22F	0.02	mg/L	26.1
NOx	C	TM23F	0.02	mg/L	0.31
TKN	C	TM28F	0.5	mg/L	28.1
TKP	C	TM16TKP	0.02	mg/L	3.58
Organic N	C	TM25F	0.5	mg/L	2.0
Total Nitrogen	C	TM25F	0.5	mg/L	28.4

Analyte		Method	LOR	Units	CCP Faecal 1 5/09/2012 08:00	CCP Faecal 2 5/09/2012 08:30	CCP Faecal 3 5/09/2012 09:00	CCP Faecal 4 5/09/2012 09:30	CCP Faecal 5 5/09/2012 10:00
Faecal Coliforms	M	MM002	1	cfu/100mL	<10	<10	<10	<10	<10

Attachment/s:

Abbreviations:

☞ indicates that NATA Chemical Accreditation is held for the test.

☞ indicates that NATA Biological Accreditation is held for the test.

• indicates NATA accreditation is not held for the test.

☞ indicates the test was performed by an external laboratory (refer to attachment/s).

LOR: Limit of Reporting; NT: Not tested; ND: Not detected; NS: No sample; NA: Not assigned, test not requested; NR: Not Reported; EST: estimated count

3old: Result is outside acceptance limits.

The laboratory welcomes your feedback on our performance. Please send your comments to bob.sheddy@unitywater.com

**Jnitywater****Jnitywater Laboratory - Moreton Bay**

37 Weier Rd, Morayfield

P.O. Box 953 Caboolture Qld 4510

Phone: (07) 5420 0720

Fax: (07) 5420 0716

E-mail: labstaff@jnitywater.com

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ACCREDITATIONAccredited for compliance with ISO/IEC 17025.
Accreditation No. 14414.

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REPORT NUMBER: UMB122155 - 00**Final Report****ISSUE DATE: 2/10/12****REGISTRATION DETAILS****JOB DESCRIPTION:** Caboolture Caravan Park**JOB REFERENCE:** UMB122155**REGISTRATION DATE:** 26/09/2012**SAMPLE DATE:** 26/09/2012**CUSTOMER DETAILS****NAME:** Caboolture Caravan Park**ADDRESS:** 26 Burnett Road
Caboolture QLD 4510**Signatories and Report Authorisation:**

This document has been electronically signed by the authorised approver / signatory indicated below.
Electronic signing has been carried out in compliance with procedures specified in MQ007 and CQ03.

Signatory / Approver *Accreditation Category*

Mark Scott

Chemical

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted.

Analyte		Method	LOR	Units	Caboolture Caravan Park 26/09/2012 10:25
Chlorine Free	C	FM11	0.1	mg/L	<0.1
pH	C	FM03	1	pHU	7.8
Conductivity	C	FM01	5	µS/cm	777
Dissolved Oxygen	C	FM02	1	mg/L	7.84
Turbidity	C	FM04	1	NTU	3

Analyte		Method	LOR	Units	Caboolture Caravan Park 26/09/2012 10:25
30D	C	TM02	3	mg/L	<3
20D	C	TM43	10	mg/L	32
Suspended Solids	C	TM12	2	mg/L	5

Report No: UMB122155 - 00

Analyte		Method	LOR	Units	Caboolture Caravan Park 26/09/2012 10:25
Ammonia N	C	TM22F	0.02	mg/L	30.9
NOx	C	TM23F	0.02	mg/L	0.38
TKN	C	TM26F	0.5	mg/L	34.3
TKP	C	TM16TKP	0.02	mg/L	0.40
Organic N	C	TM25F	0.5	mg/L	3.4
Total Nitrogen	C	TM25F	0.5	mg/L	34.7

Attachment/s:

Abbreviations:

C indicates that NATA Chemical Accreditation is held for the test.

W indicates that NATA Biological Accreditation is held for the test.

. indicates NATA accreditation is not held for the test.

E indicates the test was performed by an external laboratory (refer to attachment/s).

LC Limit of Reporting; NT: Not tested; ND: Not detected; NS: No sample; NA: Not assigned, test not requested; NR: Not Reported; EST: estimated count

300: Result is outside acceptance limits.

The laboratory welcomes your feedback on our performance. Please send your comments to bob.sheedy@unitywater.com

RTI DL RELEASE - EHP



Jnitywater

Jnitywater Laboratory - Moreton Bay

37 Weier Rd, Morayfield

P.O. Box 953 Caboolture Qld 4510

Phone: (07) 5420 0720

Fax: (07) 5420 0716

E-mail: labstaff@jnitywater.com

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REPORT NUMBER: UMB122200 - 00

Final Report

ISSUE DATE: 8/10/12

REGISTRATION DETAILS

JOB DESCRIPTION: Caboolture Caravan Park

JOB REFERENCE: UMB122200

REGISTRATION DATE: 3/10/2012

SAMPLE DATE: 3/10/2012

CUSTOMER DETAILS

NAME: Caboolture Caravan Park

ADDRESS: 26 Burnett Road
Caboolture QLD 4510

Signatories and Report Authorisation:

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Electronic signing has been carried out in compliance with procedures specified in MQ007 and CQ03.

Signatory / Approver	Accreditation Category
Simon Jonker	Biological
Nicholas Heeney	Chemical
Mark Scott	Chemical

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted.

Analyte		Method	LOR	Units	Caboolture Caravan Park 3/10/2012 10:20
Chlorine Free	C	FM11	0.1	mg/L	0.1
pH	C	FM03	1	pHU	7.2
Conductivity	C	FM01	5	µS/cm	952
Dissolved Oxygen	C	FM02	1	mg/L	3.17
Turbidity	C	FM04	1	NTU	8

Analyte		Method	LOR	Units	Caboolture Caravan Park 3/10/2012 10:20
BOD	C	TM02	3	mg/L	<3
COD	C	TM43	10	mg/L	33
Suspended Solids	C	TM12	2	mg/L	9

Report No: UMB122200 - 00

Analyte		Method	LOR	Units	Caboolture Caravan Park 3/10/2012 10:20
Ammonia N	C	TM22F	0.02	mg/L	48.4
NOx	C	TM23F	0.02	mg/L	0.22
TKN	C	TM26F	0.5	mg/L	55.8
TKP	C	TM16TKP	0.02	mg/L	1.21
Organic N	C	TM25F	0.5	mg/L	7.4
Total Nitrogen	C	TM25F	0.5	mg/L	56.0

Analyte		Method	LOR	Units	CCP Faecal 1 3/10/2012 08:00	CCP Faecal 2 3/10/2012 08:30	CCP Faecal 3 3/10/2012 09:00	CCP Faecal 4 3/10/2012 09:30	CCP Faecal 5 3/10/2012 10:00
Faecal Coliforms	M	MM002	1	cfu/100mL	<1	<1	<1	<1	<1

Attachment/s:

Abbreviations:

C indicates that NATA Chemical Accreditation is held for the test.

M indicates that NATA Biological Accreditation is held for the test.

. indicates NATA accreditation is not held for the test.

E indicates the test was performed by an external laboratory (refer to attachment/s).

LOR: Limit of Reporting; NT: Not tested; ND: Not detected; NS: No sample; NA: Not assigned, test not requested; NR: Not Reported; EST: estimated count

3old: Result is outside acceptance limits.

The laboratory welcomes your feedback on our performance. Please send your comments to bob.sheedy@unitywater.com



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 67 Weier Rd, Morayfield
 P.O. Box 953 Caboolture Qld 4510
 Phone: (07) 5420 0720
 Fax: (07) 5420 0716
 E-mail: labstaff@unitywater.com



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Final Report

ISSUE DATE: 12/11/12

REPORT NUMBER: UMB122520 - 00

REGISTRATION DETAILS

JOB DESCRIPTION: Caboolture Caravan Park
 JOB REFERENCE: UMB122520
 REGISTRATION DATE: 7/11/2012
 SAMPLE DATE: 7/11/2012

CUSTOMER DETAILS

NAME: Caboolture Caravan Park
 ADDRESS: 26 Burnett Road
 Caboolture QLD 4510

Signatories and Report Authorisation:

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 Electronic signing has been carried out in compliance with procedures specified in MQ007 and CQ03.

Signatory / Approver Accreditation Category

Andrea Cobb Biological

Mark Scott Chemical

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted.

Analyte	NATA	Method	LOR	Units	Caboolture Caravan Park 7/11/2012 10:50
Chlorine Free	C	FM11	0.1	mg/L	0.1
pH	C	FM03	1	pHU	7.8
Conductivity	C	FM01	5	µS/cm	831
Dissolved Oxygen	C	FM02	1	mg/L	5.96
Turbidity	C	FM04	1	NTU	<1

Analyte	NATA	Method	LOR	Units	Caboolture Caravan Park 7/11/2012 10:50
BOD	C	TM02	3	mg/L	<3
COD	C	TM43	10	mg/L	38
Suspended Solids	C	TM12	2	mg/L	5

Report No: UMB122520 00

Unitywater Laboratory - Moreton Bay

Analyte	NATA	Method	LOR	Units	Caboolture Caravan Park 7/11/2012 10:50
Ammonia N	C	TM22F	0.02	mg/L	28.9
NOx	C	TM23F	0.02	mg/L	0.44
TKN	C	TM28F	0.5	mg/L	28.9
TKP	C	TM16TKP	0.02	mg/L	0.19
Organic N	C	TM25F	0.5	mg/L	<0.5
Total Nitrogen	C	TM25F	0.5	mg/L	29.4

Analyte	NATA	Method	LOR	Units	CCP Faecal 1 7/11/2012 08:00	CCP Faecal 2 7/11/2012 08:30	CCP Faecal 3 7/11/2012 09:00	CCP Faecal 4 7/11/2012 09:30
Faecal Coliforms	M	MM002	1	cfu/100mL	<1	<1	<1	<1

Analyte	NATA	Method	LOR	Units	CCP Faecal 5 7/11/2012 10:00
Faecal Coliforms	M	MM002	1	cfu/100mL	<1

Attachment/s:

NATA Accreditation:

- C** NATA Chemical Accreditation is held for the test.
M NATA Biological Accreditation is held for the test.
- NATA accreditation is not held for the test.
USC Lab analysis conducted at Unitywater Sunshine Coast Laboratory (NATA Accreditation 18643)
USC* Lab analysis conducted at Unitywater Sunshine Coast Laboratory (No NATA Accreditation)
E External Laboratory (refer to attachment/s).

Abbreviations

LOR: Limit of Reporting; NT: Not tested; ND: Not detected; NS: No sample; NA: Not assigned, test not requested; NR: Not Reported; EST: estimated count

Bold: Result is outside acceptance limits.

The laboratory welcomes your feedback on our performance. Please send your comments to bob.sheedy@unitywater.com



Jnitywater

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37 Weier Rd, Morayfield

P.O. Box 953 Caboolture Qld 4510

Phone: (07) 5420 0720

Fax: (07) 5420 0716

E-mail: labstaff@jnitywater.com

REPORT NUMBER: UMB122758 - 00**Final Report****ISSUE DATE: 11/12/12****REGISTRATION DETAILS****JOB DESCRIPTION:** Caboolture Caravan Park**JOB REFERENCE:** UMB122758**REGISTRATION DATE:** 5/12/2012**SAMPLE DATE:** 5/12/2012**CUSTOMER DETAILS****NAME:** Caboolture Caravan Park**ADDRESS:** 26 Burnett Road
Caboolture QLD 4510**Signatories and Report Authorisation:**This document has been electronically signed by the authorised approver / signatory indicated below.
Electronic signing has been carried out in compliance with procedures specified in MQ007 and CQ03.**Signatory / Approver** **Accreditation Category**Andrea Cobb Biological
Nicholas Heeney Chemical

Mark Scott Chemical

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted.

Analyte	NATA	Method	LOR	Units	Caboolture Caravan Park 5/12/2012 10:50
Chlorine Free	C	FM11	0.1	mg/L	<0.1
pH	C	FM03	1	pHU	8.2
Conductivity	C	FM01	5	µS/cm	554
Dissolved Oxygen	C	FM02	1	mg/L	6.00
Turbidity	C	FM04	1	NTU	5

Analyte	NATA	Method	LOR	Units	Caboolture Caravan Park 5/12/2012 10:50
BOD	C	TM02	3	mg/L	<3
COD	C	TM43	10	mg/L	16
Suspended Solids	C	TM12	2	mg/L	<2

Report No: UMB122758 - 00

Analyte	NATA	Method	LOR	Units	Caboolture Caravan Park 5/12/2012 10:50
Ammonia N	C	TM22F	0.02	mg/L	17.9
NOx	C	TM23F	0.02	mg/L	0.47
TKN	C	TM26F	0.5	mg/L	19.2
TKP	C	TM16TKP	0.02	mg/L	1.23
Organic N	C	TM25F	0.5	mg/L	1.3
Total Nitrogen	C	TM25F	0.5	mg/L	19.7

Analyte	NATA	Method	LOR	Units	CCP Faecal 1 5/12/2012 08:00	CCP Faecal 2 5/12/2012 08:30	CCP Faecal 3 5/12/2012 09:00	CCP Faecal 4 5/12/2012 09:30
Faecal Coliforms	M	MM002	1	cfu/100mL	<1	<1	<1	<1

Analyte	NATA	Method	LOR	Units	CCP Faecal 5 5/12/2012 10:00
Faecal Coliforms	M	MM002	1	cfu/100mL	<1

Attachment/s:

NATA Accreditation:

- ✓ NATA Chemical Accreditation is held for the test.
- ✓ NATA Biological Accreditation is held for the test.
- ✓ NATA accreditation is not held for the test.
- JSC Lab analysis conducted at Unitywater Sunshine Coast Laboratory (NATA Accreditation 16643)
- JSC* Lab analysis conducted at Unitywater Sunshine Coast Laboratory (No NATA Accreditation)
- ☐ External Laboratory (refer to attachment/s).

Abbreviations

LOR: Limit of Reporting; NT: Not tested; ND: Not detected; NS: No sample; NA: Not assigned, test not requested; NR: Not Reported; EST: estimated count
Bold: Result is outside acceptance limits.

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REPORT NUMBER: UMB130510 - 00

Final Report

ISSUE DATE: 11/03/13

REGISTRATION DETAILS

JOB DESCRIPTION: Caboolture Caravan Park
JOB REFERENCE: UMB130510
REGISTRATION DATE: 6/03/2013
SAMPLE DATE: 6/03/2013

CUSTOMER DETAILS

NAME: Caboolture Caravan Park
ADDRESS: 26 Burnett Road
Caboolture QLD 4510

Signatories and Report Authorisation:

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Electronic signing has been carried out in compliance with procedures specified in QD07 and CQ03.

Signatory / Approver Accreditation Category

Dawn Hadfield Biological

Mark Scott Chemical

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted.

Analyte	NATA	Method	LOR	Units	Caboolture Caravan Park 6/03/2013 10:20
Chlorine Free	C	FM11	0.1	mg/L	<0.1 ✓
pH	C	FM03	1	pHU	7.8 ✓
Conductivity	C	FM01	5	µS/cm	336 ✓
Dissolved Oxygen	C	FM02	1	mg/L	7.98 ✓
Turbidity	C	FM04	1	NTU	<1 ✓

Analyte	NATA	Method	LOR	Units	Caboolture Caravan Park 6/03/2013 10:20
BOD	C	TM02	3	mg/L	<3 ✓
COD	C	TM43	10	mg/L	42 ✓
Suspended Solids	C	TM12	2	mg/L	6 ✓

Analyte	NATA	Method	LOR	Units	Caboolture Caravan Park 6/03/2013 10:20
Ammonia N	C	TM22F	0.02	mg/L	0.09
NOx	C	TM23F	0.02	mg/L	1.14
TKN	C	TM26F	0.5	mg/L	1.6
TKP	C	TM16TKP	0.02	mg/L	2.30
Organic N	C	TM25F	0.5	mg/L	1.5
Total Nitrogen	C	TM25F	0.5	mg/L	2.7

← 0.09 mg/L Relatively
X Over 2x limit.

Analyte	NATA	Method	LOR	Units	CCP Faecal 1 6/03/2013 08:00	CCP Faecal 2 6/03/2013 08:30	CCP Faecal 3 6/03/2013 09:00	CCP Faecal 4 6/03/2013 09:30
Faecal Coliforms	M	MM002	1	cfu/100mL	<10	<10	<10	<10

Analyte	NATA	Method	LOR	Units	CCP Faecal 5 6/03/2013 10:00
Faecal Coliforms	M	MM002	1	cfu/100mL	<10

Attachment/s:

NATA Accreditation:

C NATA Chemical Accreditation is held for the test.

M NATA Biological Accreditation is held for the test.

- NATA accreditation is not held for the test.

USC Lab analysis conducted at Unitywater Sunshine Coast Laboratory (NATA Accreditation 16643)

USC* Lab analysis conducted at Unitywater Sunshine Coast Laboratory (No NATA Accreditation)

E External Laboratory (refer to attachment/s).

Abbreviations

LOR: Limit of Reporting; NT: Not tested; ND: Not detected; NS: No sample; NA: Not assigned, test not requested; NR: Not Reported; EST: estimated count

Bold: Result is outside acceptance limits.

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Unitywater Laboratory - Moreton Bay

67 Weier Rd, Morayfield
P.O. Box 953 Caboolture Qld 4510
Phone: (07) 5420 0720
Fax: (07) 5420 0716
E-mail: labstaff@unitywater.com

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REPORT NUMBER: UMB130531 - 00

Final Report

ISSUE DATE: 11/03/13

REGISTRATION DETAILS

JOB DESCRIPTION: Watson Park
JOB REFERENCE: UMB130531
REGISTRATION DATE: 6/03/2013
SAMPLE DATE: 6/03/2013

CUSTOMER DETAILS

NAME: Watson Park Convention Centre
ADDRESS: 337 Old Gympie Road
Dakabin QLD 4503

Signatories and Report Authorisation:

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Signatory / Approver *Accreditation Category*

Dawn Hadfield Biological

Mark Scott Chemical

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted.

Analyte	NATA	Method	LOR	Units	Pumpout pond 4 Initial 6/03/2013 06:30	Pumpout pond 4 Final 6/03/2013 08:30
BOD	C	TM02	3	mg/L	7 ✓	5 ✓
Dissolved Oxygen	C	TM08	1	mg/L	7.10 ✓	7.80 ✓
Conductivity	C	TM07	5	µS/cm	190	190
pH	C	TM15	1	pHU	7.8 ✓	8.0 ✓
Suspended Solids	C	TM12	2	mg/L	35	38

Analyte	NATA	Method	LOR	Units	Pumpout pond 4-1 6/03/2013 06:30	Pumpout pond 4-2 6/03/2013 07:00	Pumpout pond 4-3 6/03/2013 07:30	Pumpout pond 4-4 6/03/2013 08:00
Faecal Coliforms	M	MM002	1	cfu/100mL	300EST	400EST	300EST	800EST

Analyte	NATA	Method	LOR	Units	Pumpout pond 4-5 6/03/2013 08:30
Faecal Coliforms	M	MM002	1	cfu/100mL	700EST

No Total P testing? - why?

Unitywater Laboratory - Moreton Bay

67 Weier Rd, Morayfield
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Fax: (07) 5420 0716
E-mail: labstaff@unitywater.com

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REPORT NUMBER: UMB130287 - 00

Final Report

ISSUE DATE: 13/02/13

REGISTRATION DETAILS

JOB DESCRIPTION: Caboolture Caravan Park
JOB REFERENCE: UMB130287
REGISTRATION DATE: 6/02/2013
SAMPLE DATE: 6/02/2013

CUSTOMER DETAILS

NAME: Caboolture Caravan Park
ADDRESS: 26 Burnett Road
Caboolture QLD 4510

Signatories and Report Authorisation:

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Electronic signing has been carried out in compliance with procedures specified in QD07 and CQ03.

Signatory / Approver *Accreditation Category*

Andrea Cobb Biological
Nicholas Heeney Chemical

Arlene Yarrow Chemical

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted.

Analyte	NATA	Method	LOR	Units	Caboolture Caravan Park 6/02/2013 10:30
Chlorine Free	C	FM11	0.1	mg/L	<0.1 ✓
pH	C	FM03	1	pHU	7.8 ✓
Conductivity	C	FM01	5	µS/cm	564 ✓
Dissolved Oxygen	C	FM02	1	mg/L	5.48 ✓
Turbidity	C	FM04	1	NTU	<1 ✓

Analyte	NATA	Method	LOR	Units	Caboolture Caravan Park 6/02/2013 10:30
BOD	C	TM02	3	mg/L	<3 ✓
COD	C	TM43	10	mg/L	19 ✓
Suspended Solids	C	TM12	2	mg/L	3 ✓

Analyte	NATA	Method	LOR	Units	Caboolture Caravan Park 6/02/2013 10:30
Ammonia N	C	TM22F	0.02	mg/L	7.6
NOx	C	TM23F	0.02	mg/L	0.65
TKN	C	TM26F	0.5	mg/L	9.1
TKP	C	TM16TKP	0.02	mg/L	0.22
Organic N	C	TM25F	0.5	mg/L	1.6
Total Nitrogen	C	TM25F	0.5	mg/L	9.8

Analyte	NATA	Method	LOR	Units	CCP Faecal 1 6/02/2013 08:00	CCP Faecal 2 6/02/2013 08:30	CCP Faecal 3 6/02/2013 09:00	CCP Faecal 4 6/02/2013 09:30
Faecal Coliforms	M	MM002	1	cfu/100mL	<1	<1	<1	<1

Analyte	NATA	Method	LOR	Units	CCP Faecal 5 6/02/2013 10:00
Faecal Coliforms	M	MM002	1	cfu/100mL	<1

Attachment/s:

NATA Accreditation:**C** NATA Chemical Accreditation is held for the test.**M** NATA Biological Accreditation is held for the test.**-** NATA accreditation is not held for the test.

USC Lab analysis conducted at Unitywater Sunshine Coast Laboratory (NATA Accreditation 16643)

USC* Lab analysis conducted at Unitywater Sunshine Coast Laboratory (No NATA Accreditation)

E External Laboratory (refer to attachment/s).Abbreviations

LOR: Limit of Reporting; NT: Not tested; ND: Not detected; NS: No sample; NA: Not assigned, test not requested; NR: Not Reported; EST: estimated count

Bold: Result is outside acceptance limits.

The laboratory welcomes your feedback on our performance. Please send your comments to bob.sheedy@unitywater.com

REPORT NUMBER: UMB130138 - 00

Final Report

ISSUE DATE: 22/01/13

REGISTRATION DETAILS

JOB DESCRIPTION: Caboolture Caravan Park
JOB REFERENCE: UMB130138
REGISTRATION DATE: 16/01/2013
SAMPLE DATE: 16/01/2013

CUSTOMER DETAILS

NAME: Caboolture Caravan Park
ADDRESS: 26 Burnett Road
 Caboolture QLD 4510

Signatories and Report Authorisation:

This document has been electronically signed by the authorised approver / signatory indicated below.
 Electronic signing has been carried out in compliance with procedures specified in QD07 and CQ03.

<i>Signatory / Approver</i>	<i>Accreditation Category</i>
Dawn Hadfield	Biological
Mark Scott	Chemical
Arlene Yarrow	Chemical

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted.

Analyte	NATA	Method	LOR	Units	Caboolture Caravan Park 16/01/2013 10:00
Chlorine Free	C	FM11	0.1	mg/L	0.1 ✓
Conductivity	C	FM01	5	µS/cm	611 ✓
Dissolved Oxygen	C	FM02	1	mg/L	9.21 ✓
Turbidity	C	FM04	1	NTU	2 ✓

Analyte	NATA	Method	LOR	Units	Caboolture Caravan Park 16/01/2013 10:00
BOD	C	TM02	3	mg/L	<3 ✓
COD	C	TM43	10	mg/L	32 ✓
Suspended Solids	C	TM12	2	mg/L	3 ✓
pH	C	TM15	1	pHU	7.9 ✓

Analyte	NATA	Method	LOR	Units	Caboolture Caravan Park 16/01/2013 10:00
Ammonia N	C	TM22F	0.02	mg/L	17.9
NOx	C	TM23F	0.02	mg/L	0.56
TKN	C	TM26F	0.5	mg/L	21.8
TKP	C	TM16TKP	0.02	mg/L	0.36
OrganicN	C	TM25F	0.5	mg/L	4.0
Total Nitrogen	C	TM25F	0.5	mg/L	22.4

Analyte	NATA	Method	LOR	Units	CCP Faecal 1 16/01/2013 08:00	CCP Faecal 2 16/01/2013 08:30	CCP Faecal 3 16/01/2013 09:00	CCP Faecal 4 16/01/2013 09:30
Faecal Coliforms	M	MM002	1	cfu/100mL	<1	<1	<1	<1

Analyte	NATA	Method	LOR	Units	CCP Faecal 5 16/01/2013 10:00
Faecal Coliforms	M	MM002	1	cfu/100mL	<1

Attachment/s:

NATA Accreditation:

C NATA Chemical Accreditation is held for the test.**M** NATA Biological Accreditation is held for the test.- NATA accreditation is not held for the test.

USC Lab analysis conducted at Unitywater Sunshine Coast Laboratory (NATA Accreditation 16643)

USC* Lab analysis conducted at Unitywater Sunshine Coast Laboratory (No NATA Accreditation)

E External Laboratory (refer to attachment/s).

Abbreviations

LOR: Limit of Reporting; NT: Not tested; ND: Not detected; NS: No sample; NA: Not assigned, test not requested; NR: Not Reported; EST: estimated count

Bold: Result is outside acceptance limits.

The laboratory welcomes your feedback on our performance. Please send your comments to bob.sheedy@unitywater.com

REPORT NUMBER: UMB130920 - 00

Final Report

ISSUE DATE: 7/05/13

REGISTRATION DETAILS

JOB DESCRIPTION: Caboolture Caravan Park
JOB REFERENCE: UMB130920
REGISTRATION DATE: 1/05/2013
ANALYSIS COMMENCED: 1/05/2013

CUSTOMER DETAILS

NAME: Caboolture Caravan Park
ADDRESS: 26 Burnett Road
Caboolture QLD 4510

Signatories and Report Authorisation:

This document has been electronically signed by the authorised approver / signatory indicated below.
Electronic signing has been carried out in compliance with procedures specified in QD07 and CQ03.

Authorised Approver	Function	Accreditation Category
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Dawn Hadfield	Microbiologist	Biological
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Mark Scott	Analyst	Chemical
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Arlene Yarrow	Analyst	Chemical
---------------	---------	----------

Analyte	NATA	Method	LOR	Units	Caboolture Caravan Park 1/05/2013 10:50
Chlorine Free	C	FM11	0.1	mg/L	<0.1
pH	C	FM02	1	pHU	7.8
Conductivity	C	FM01	5	µS/cm	526
Dissolved Oxygen	C	FM02	1	mg/L	10.39
Turbidity	C	FM04	1	NTU	2

Analyte	NATA	Method	LOR	Units	Caboolture Caravan Park 1/05/2013 10:50
BOD	C	TM02	3	mg/L	<3
COD	C	TM43	10	mg/L	20
Suspended Solids	C	TM12	2	mg/L	7

Analyte	NATA	Method	LOR	Units	Caboolture Caravan Park 1/05/2013 10:50
Ammonia N	C	TM22F	0.02	mg/L	2.9
NOx	C	TM23F	0.02	mg/L	0.57
TKN	C	TM26F	0.5	mg/L	15.7
TKP	C	TM16TKP	0.02	mg/L	0.44
Organic N	C	TM25F	0.5	mg/L	12.8
Total Nitrogen	C	TM25F	0.5	mg/L	16.3

Analyte	NATA	Method	LOR	Units	CCP Faecal 1 1/05/2013 08:00	CCP Faecal 2 1/05/2013 08:30	CCP Faecal 3 1/05/2013 09:00	CCP Faecal 4 1/05/2013 09:30
Faecal Coliforms	M	MM002	1	cfu/100mL	600EST	900EST	900EST	400EST

Analyte	NATA	Method	LOR	Units	CCP Faecal 5 1/05/2013 10:00
Faecal Coliforms	M	MM002	1	cfu/100mL	500EST

Attachment/s:

NATA Accreditation:**C** NATA Chemical Accreditation is held for the test.**M** NATA Biological Accreditation is held for the test.

- NATA accreditation does not cover the performance of this service.

USC Lab analysis conducted at Unitywater Sunshine Coast Laboratory (NATA Accreditation 16643)

USC* Lab analysis conducted at Unitywater Sunshine Coast Laboratory (No NATA Accreditation)

E External Laboratory (refer to attachment/s).Abbreviations

LOR: Limit of Reporting; NT: Not tested; ND: Not detected; NS: No sample; NA: Not assigned, test not requested; NR: Not Reported; EST: estimated count

Bold: Result is outside acceptance limits.

The laboratory welcomes your feedback on our performance. Please send your comments to bob.sheedy@unitywater.com

Unitywater Laboratory - Moreton Bay
 67 Weier Rd, Morayfield
 P.O. Box 953 Caboolture Qld 4510
 Phone: (07) 5420 0720
 Fax: (07) 5420 0716
 E-mail: labstaff@unitywater.com

Accredited for compliance with ISO/IEC 17025
 Accreditation No. 14414

This report shall not be reproduced except in full, without written approval of the laboratory

REPORT NUMBER: UMB130759 - 00

Final Report
ISSUE DATE: 17/04/13

REGISTRATION DETAILS

JOB DESCRIPTION: Caboolture Caravan Park
JOB REFERENCE: UMB130759
REGISTRATION DATE: 10/04/2013
SAMPLE DATE: 10/04/2013

CUSTOMER DETAILS

NAME: Caboolture Caravan Park
ADDRESS: 26 Burnett Road
 Caboolture QLD 4510

Signatories and Report Authorisation:

This document has been electronically signed by the authorised approver / signatory indicated below.
 Electronic signing has been carried out in compliance with procedures specified in QD07 and CQ03.

Authorised Approver	Function	Accreditation Category
Dawn Hadfield	Microbiologist	Biological

Arlene Yarrow	Analyst	Chemical
Delmy Figueroa	Analyst	Chemical

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted.

Analyte	NATA	Method	LOR	Units	Caboolture Caravan Park 10/04/2013 10:20
Chlorine Free	C	FM11	0.1	mg/L	<0.1
pH	C	FM03	1	pHU	7.7
Conductivity	C	FM01	5	µS/cm	413
Dissolved Oxygen	C	FM02	1	mg/L	10.30
Turbidity	C	FM04	1	NTU	<1

Analyte	NATA	Method	LOR	Units	Caboolture Caravan Park 10/04/2013 10:20
BOD	C	TM02	3	mg/L	<3
COD	C	TM43	10	mg/L	60
Suspended Solids	C	TM12	2	mg/L	<2

Analyte	NATA	Method	LOR	Units	Caboolture Caravan Park 10/04/2013 10:20
Ammonia N	C	TM22F	0.02	mg/L	2.0
NOx	C	TM23F	0.02	mg/L	0.70
TKN	C	TM26F	0.5	mg/L	3.2
TKP	C	TM16TKP	0.02	mg/L	0.17
Organic N	C	TM25F	0.5	mg/L	1.1
Total Nitrogen	C	TM25F	0.5	mg/L	3.9

Analyte	NATA	Method	LOR	Units	CCP Faecal 1 10/04/2013 08:00	CCP Faecal 2 10/04/2013 08:30	CCP Faecal 3 10/04/2013 09:00	CCP Faecal 4 10/04/2013 09:30
Faecal Coliforms	M	MM002	1	cfu/100mL	<10	<10	<10	<10

Analyte	NATA	Method	LOR	Units	CCP Faecal 5 10/04/2013 10:00
Faecal Coliforms	M	MM002	1	cfu/100mL	<10

Attachment/s:

NATA Accreditation:

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M NATA Biological Accreditation is held for the test.
 - NATA accreditation does not cover the performance of this service.
USC Lab analysis conducted at Unitywater Sunshine Coast Laboratory (NATA Accreditation 16643)
USC* Lab analysis conducted at Unitywater Sunshine Coast Laboratory (No NATA Accreditation)
E External Laboratory (refer to attachment/s).

Abbreviations

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Bold: Result is outside acceptance limits.

The laboratory welcomes your feedback on our performance. Please send your comments to bob.sheedy@unitywater.com

Clough Leonie

From: Clough Leonie
Sent: Monday, 21 October 2013 12:57 PM
To: 'hamish@roofley.com'
Subject: RE: Caboolture Caravan Park

Hi Hamish,

Thank you for forwarding the recent results and the exceedance notification in regards to the elevated TP level.

Please send any further notifications Caboolture office general email box at Moretonbay.esr@ehp.qld.gov.au. This will ensure the department receives any future exceedance notification(s) in the event I am not in the office or on leave.

Can you please provide results of samples taken in the next sampling round to confirm compliance has been achieved.

In regards to your questions about TP versus TKP, I note that Schedule H Table 1 of the permit requires total Phosphorus and this is defined in schedule I (see I20). EHP is satisfied that analysis of total phosphorus meets the requirements of the permit.

Kind Regards

Leonie Clough
 Principal Environmental Officer (Moreton Bay) Southern Region North Environmental Services & Regulation
 Department of Environment and Heritage Protection Level 3, 33 King Street Caboolture QLD 4510
 Telephone: (07) 5433 7772 Fax (07) 5433 7762
 Email: leonie.clough@ehp.qld.gov.au
 Website: www.ehp.qld.gov.au

-----Original Message-----

From: hamish@roofley.com [mailto:hamish@roofley.com]
Sent: Friday, 18 October 2013 3:49 PM
To: Clough Leonie
Subject: Caboolture Caravan Park

Hi Leonie,

Please find attached the test results for the Caboolture River Caravan Park for October. You will not the high reading in "TP". This is our first report above the permit limit since March. Our treatment plant consultant, Peter Stuart, has provided the following feedback on the test results:

"We believe the recent failure for phosphate is due to the fact that over the school break a park staff member found a patron using some very caustic cleaners which ended up in the sewer system, this explained the high PH readings we have received of late. The high PH would be detrimental to the survival of the PAO's, and as such have wiped out the colony. Rectification of the system is in progress."

Also, we have this month started receiving test results from UnityWater with "TP" rather than "TKP" which we note are permit specifies a "TKP" limit. Please note this was not on our request, we understand UnityWater have had a change in their internal test processes which have impacted our tests as well. Below is a explanation from UnityWater which they believe shows "TP" to be an accurate measure of "TKP". Can you please confirm if EHP is satisfied with reporting "TP" in lieu of "TKP".

Regards,
Hamish

Hamish Baird
Operations Manager
Roofley Property Group Pty Ltd

PO Box 584, Deception Bay QLD 4508

P 07 3203 2032

sch404 (6) Personal information

F 07 3293 2315

Caboolture River Caravan Park - Endeavour Caravan Park - Four Star Caravan Park

-----Original Message-----

From: Nicholas Heeney [mailto:Nicholas.Heeney@unitywater.com]

Sent: Wednesday, 16 October 2013 4:31 PM

To: roofleyptyltd@exemail.com.au

Subject: Results for registration 'UMB132109 - Caboolture Caravan Park'

Hi Hamish,

As discussed we have rerun the phosphorus by Kjeldahl digest and the result returned was within our accepted method uncertainties. I have included both results on this report, however you will only be charged for the TP result.

We have recently gained accreditation for the analysis of total nitrogen and phosphorus by persulphate digest to replace our existing Kjeldahl digest. There are a number of benefits to both organisations by utilising the persulphate methods, the main three being;

- Improved safety: the Kjeldahl digest is performed by digesting the sample in sulphuric acid at 375oC, as opposed to the persulphate digest which digests the sample in persulphate in an autoclave. The associated Kjeldahl equipment also needs to be acid soaked in 50% HCl, as opposed to the persulphate digest which uses disposable 10mL tubes.
- Reduced cost: Kjeldahl digest is \$41.3 per analyte and persulphate digest is \$22.3 per analyte. This represent a cost saving of \$37 per sample where TN/TP are required.
- Improved detection limit: We aim to have an LoR for TN <0.01mg/L (TKN <0.5mg/L) and TP <0.01mg/L (TKP <0.02mg/L). Although we do need to run a separate calibration for Low Range TKP which impacts on the efficiency of the test.

I have provided a spreadsheet of the comparison data between the two digest methods for total phosphorus to show that TKP and TP are equivalent results.

Please do not hesitate to contact me if you need any additional information regarding the way in which we will analyse and report our total phosphorus results.

Regards

Nicholas Heeney | Laboratory Business Development Advisor Unitywater Infrastructure, Planning and Capital Delivery 67a Weier Road Morayfield Qld 4506

t: 07 5431 8783 sch404 (6) Personal information

e: nicholas.heeney@unitywater.com

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RTI DL RELEASE - EHP

REPORT NUMBER: UMB132109 - 01

Final Report

ISSUE DATE: 16/10/13

REGISTRATION DETAILS

JOB DESCRIPTION: Caboolture Caravan Park
JOB REFERENCE: UMB132109
REGISTRATION DATE: 2/10/2013
ANALYSIS COMMENCED: 2/10/2013

CUSTOMER DETAILS

NAME: Caboolture Caravan Park
ADDRESS: 26 Burnett Road
Caboolture QLD 4510

Signatories and Report Authorisation:

This document has been electronically signed by the authorised approver / signatory indicated below.
Electronic signing has been carried out in compliance with procedures specified in QD07 and CQ03.

Authorised Approver	Function	Accreditation Category
---------------------	----------	------------------------

Dawn Hadfield	Microbiologist	Biological
---------------	----------------	------------

Toni Hungerford	Technician	Chemical
-----------------	------------	----------

Analyte	NATA	Method	LOR	Units	Caboolture Caravan Park 2/10/2013 10:45
Chlorine Free	C	FM11	0.1	mg/L	<0.1 ✓
pH	C	FM03	1	pH	8.0 ✓
Conductivity	C	FM01	5	µS/cm	580 ✓
Dissolved Oxygen	C	FM02	1	mg/L	8.47 ✓
Turbidity	C	FM04	1	NTU	13 ✓

Analyte	NATA	Method	LOR	Units	Caboolture Caravan Park 2/10/2013 10:45
BOD	C	TM02	3	mg/L	<3 ✓
COD	C	TM43	10	mg/L	60 ✓
Suspended Solids	C	TM12	2	mg/L	9 ✓

Analyte	NATA	Method	LOR	Units	Caboolture Caravan Park 2/10/2013 10:45
Ammonia N	C	TM22F	0.02	mg/L	30.5
NOx	C	TM23F	0.02	mg/L	0.80
TKN (calc)	C	TM47	0.05	mg/L	28.7
TN	C	TM47	0.05	mg/L	29.5
TP	C	TM47	0.05	mg/L	6.33
TKP	C	TM16TKP	0.02	mg/L	6.00
Organic N (calc)	C	TM47	0.05	mg/L	<0.05

* over 6x limit!!

Analyte	NATA	Method	LOR	Units	CCP Faecal 1 2/10/2013 08:00	CCP Faecal 2 2/10/2013 08:30	CCP Faecal 3 2/10/2013 09:00	CCP Faecal 4 2/10/2013 09:30
Faecal Coliforms	M	MM002	1	cfu/100mL	5EST	12	7	4EST

Analyte	NATA	Method	LOR	Units	CCP Faecal 5 2/10/2013 10:00
Faecal Coliforms	M	MM002	1	cfu/100mL	12

Attachment/s:

NATA Accreditation:

- C** NATA Chemical Accreditation is held for the test.
M NATA Biological Accreditation is held for the test.
 - NATA accreditation does not cover the performance of this service.
 USC Lab analysis conducted at Unitywater Sunshine Coast Laboratory (NATA Accreditation 16643)
 USC* Lab analysis conducted at Unitywater Sunshine Coast Laboratory (No NATA Accreditation)
E External Laboratory (refer to attachment/s).

Abbreviations

LOR: Limit of Reporting; NT: Not tested; ND: Not detected; NS: No sample; NA: Not assigned, test not requested; NR: Not Reported; EST: estimated count

Bold: Result is outside acceptance limits.

The laboratory welcomes your feedback on our performance. Please send your comments to labstaff@unitywater.com

	LIMS ID	Persulphate	Kjeldahl	Kjeldahl:Persulphate	
		TP	TKP	Difference	Average
16/03/2013	UMB130550-2	3.97	4.23	106.5%	104.0%
	UMB130552-2	3.31	3.42	103.3%	
	UMB130565-2	3.18	3.15	99.1%	
	UMB130568-2	5.68	6.17	108.6%	
	UMB130570-2	8.10	8.29	102.3%	
21/03/2013	UMB130604-3	6.68	6.12	91.6%	93.9%
	UMN130606-3	4.00	3.73	93.3%	
	UMB130615-3	4.08	3.82	93.6%	
	UMB130618-3	6.58	6.51	98.9%	
	UMB130620-3	8.46	7.77	91.8%	
28/03/2013	UMB130653-3	4.89	4.85	99.2%	98.5%
	UMB130655-3	8.75	8.51	97.3%	
	UMB130663-3	5.53	5.54	100.2%	
	UMB130665-3	5.58	5.58	100.0%	
	UMB130667-3	8.09	7.74	95.7%	
3/04/2013	UMB130699-3	6.03	5.92	98.2%	98.3%
	UMB130707-3	6.98	6.90	98.9%	
	UMB130709-3	7.58	7.39	97.5%	
	UMB130711-3	8.43	8.26	98.0%	
	UMB130715-3	5.34	5.29	99.1%	
10/04/2013	UMB130753-3	2.87	2.86	99.7%	95.1%
	UMB130755-3	9.16	8.33	90.9%	
	UMB130771-3	6.06	5.85	96.5%	
	UMB130773-3	5.56	5.65	101.6%	
	UMB130776-3	12.01	10.39	86.5%	
26/04/2013	UMB130871-3	5.97	5.66	94.8%	94.4%
	UMB130873-3	5.69	5.66	99.5%	
	UMB130886-3	6.45	6.52	101.1%	
	UMB130889-3	8.79	7.24	82.4%	
	UMB130891-3	9.93	9.37	94.4%	
8/05/2013	UMB130968-3	9.50	8.86	93.3%	99.8%
	UMB130971-3	5.72	5.78	101.0%	
	UMB130974-3	6.73	6.80	101.0%	
	UMB130977-3	6.46	6.53	101.1%	
	UMB130980-3	10.92	11.22	102.7%	
16/05/2013	UMB131015-3	8.27	8.81	106.5%	106.1%
	UMB131017-3	6.37	6.93	108.8%	
	UMB131019-3	6.18	6.50	105.2%	
	UMB131022-3	10.19	10.92	107.2%	
	UMB131029-3	6.58	6.77	102.9%	
23/05/2013	UMB131084-3	8.31	8.18	98.4%	98.5%
	UMB131086-3	5.90	5.81	98.5%	
	UMB131088-3	8.06	7.73	95.9%	
	UMB131091-3	11.84	11.62	98.1%	
	UMB131097-3	9.87	10.00	101.3%	
	UMB131158-3	9.97	10.50	105.3%	
	UMB131160-3	9.63	10.03	104.2%	

6/06/2013	UMB131176-3	6.34	6.73	106.2%	104.8%
	UMB131179-3	8.11	8.54	105.3%	
	UMB131181-3	11.29	11.65	103.2%	

RTI DL RELEASE - EHP

REPORT OF ANALYSIS

JOB DESCRIPTION: Caboolture Caravan Park

CUSTOMER: Caboolture Caravan Park
26 Burnett Road
Caboolture QLD 4510

EMAIL: roofleyptltd@exemail.com.au

CONTACT: Murray Woolnough

REPORT ID: UW-00144

DATE SAMPLED: 6/11/2013

DATE RECEIVED: 6/11/2013

ORDER NO: NA

REPORT LEGEND

ABBREVIATIONS

NA - Not Applicable
NT - Not Tested
ND - Not Detected
NS - No Sample
OR - Over Range of Method

< = Less than
> = Greater than
--- Test Not Required
S - Soluble

MPN - Most Probable Number
CFU - Colony Forming Unit
PFU - Plaque Forming Unit
EST - Estimated Count

NATA ACCREDITATION

TEST METHOD marked with * indicates NATA Accreditation does not cover the performance of this service.
TEST METHOD marked with X indicates tests performed by External Laboratory

- All sampling performed by this facility conforms to In-House Method FQ01.
- All samples processed on day of receipt. Samples were appropriately stored and preserved until actual tests performed, and analysed within required retention time as per AS 5667.1(1998) & AS 2031 (2012). Clients advised of any deviations.

Your Feedback is important to us. Your comments are welcome at the above email address or please feel free to telephone us at any time.

Unitywater - Laboratory Report

Caboolture Caravan Park

UW-00144

FINAL REPORT - All pages of this report have been checked and approved for release. This report overrides all previous reports.

Test Description	Units	Test Method	Caboolture Caravan Park	CCP Faecal 1	CCP Faecal 2	CCP Faecal 3	CCP Faecal 4	CCP Faecal 5
DATE SAMPLED			6/11/2013	6/11/2013	6/11/2013	6/11/2013	6/11/2013	6/11/2013
Time Sampled			10:48	08:00	08:30	09:00	09:30	10:00
Thermotolerant coliforms	cfu/100mL	MM02	---	970	770	680	850	610
Chlorine Free	mg/L	FM11	0.1	---	---	---	---	---
Dissolved Oxygen	mg/L	FM02	5.0	---	---	---	---	---
pH	pH Units	FM03	7.2	---	---	---	---	---
Turbidity	NTU	FM04	3.5	---	---	---	---	---
E. Cond.	us/cm	FM01	956.0	---	---	---	---	---
BODs	mg/L	CM02	<3	---	---	---	---	---
COD	mg/L	CM43	25	---	---	---	---	---
Suspended Solids	mg/L	CM12	87	---	---	---	---	---
Ammonia as N	mg/L	CM22	49.09	---	---	---	---	---
Nitrate + Nitrite as N	mg/L	CM22	0.47	---	---	---	---	---
Total Nitrogen as N	mg/L	CM23	52.09	---	---	---	---	---
Total Phosphorus as P	mg/L	CM23	0.30	---	---	---	---	---
Organic N as N	mg/L	CM25	2.53	---	---	---	---	---
TKN as N (TN-NOX)	mg/L	CM25	51.62	---	---	---	---	---

Unitywater - Laboratory Report

Caboolture Caravan Park

UW-00144

FINAL REPORT - All pages of this report have been checked and approved for release. This report overrides all previous reports.

COMMENTS

Time Micro Commenced (Where Applicable):- 12:30

ATTACHMENTS

RTI DL RELEASE - EHP

REPORT OF ANALYSIS

JOB DESCRIPTION: Caboolture Caravan Park

CUSTOMER: Caboolture Caravan Park
26 Burnett Road
Caboolture QLD 4510

EMAIL: roofleyptyltd@exemail.com.au

CONTACT: Murray Woolnough

REPORT ID: UW-00944

DATE SAMPLED: 8/01/2014

DATE RECEIVED: 8/01/2014

ORDER NO: NA

REPORT LEGEND

ABBREVIATIONS

NA - Not Applicable
NT - Not Tested
ND - Not Detected
NS - No Sample
OR - Over Range of Method

< = Less than
> = Greater than
--- Test Not Required
S - Soluble

MPN - Most Probable Number
CFU - Colony Forming Unit
PFU - Plaque Forming Unit
EST - Estimated Count

NATA ACCREDITATION

TEST METHOD marked with * indicates NATA Accreditation does not cover the performance of this service.
TEST METHOD marked with X indicates tests performed by External Laboratory

- All sampling performed by this facility conforms to In-House Method FQ01.
- All samples processed on day of receipt. Samples were appropriately stored and preserved until actual tests performed, and analysed within required retention time as per AS 5667.1(1998) & AS 2031 (2012). Clients advised of any deviations.

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Unitywater - Laboratory Report

Caboolture Caravan Park

UW-00944

FINAL REPORT - All pages of this report have been checked and approved for release. This report overrides all previous reports.

Test Description	Units	Test Method	Caboolture Caravan Park 8/01/2014 11:18	CCP Faecal 1 8/01/2014 08:00	CCP Faecal 2 8/01/2014 08:30	CCP Faecal 3 8/01/2014 09:00	CCP Faecal 4 8/01/2014 09:30	CCP Faecal 5 8/01/2014 10:00
DATESAMPLED Time Sampled								
E. coli	cfu/100mL	MM02	---	<1	<1	<1	<1	<1
Thermotolerant coliforms	cfu/100mL	MM02	---	<1	<1	<1	<1	<1
Chlorine Free	mg/L	FM11	<0.1	---	---	---	---	---
Dissolved Oxygen	mg/L	FM02	8.0	---	---	---	---	---
pH	pH Units	FM03	8.1	---	---	---	---	---
Turbidity	NTU	FM04	9.2	---	---	---	---	---
E.Cond.	us/cm	FM01	447.0	---	---	---	---	---
BOD ₅	mg/L	CM02	<3	---	---	---	---	---
COD	mg/L	CM43	62	---	---	---	---	---
Suspended Solids	mg/L	CM12	5.0	---	---	---	---	---
Ammonia as N	mg/L	CM22	18.6	---	---	---	---	---
Nitrate + Nitrite as N	mg/L	CM22	0.50	---	---	---	---	---
Total Nitrogen as N	mg/L	CM23	19.3	---	---	---	---	---
Total Phosphorus as P	mg/L	CM23	1.30	---	---	---	---	---
Organic N as N	mg/L	CM25	0.21	---	---	---	---	---
TKN as N (TN-NOX)	mg/L	CM25	18.77	---	---	---	---	---

RTN DL RELEASE - EMP

Unitywater - Laboratory Report

Caboolture Caravan Park

UW-00944

FINAL REPORT - All pages of this report have been checked and approved for release. This report overrides all previous reports.

COMMENTS

Time Micro Commenced (Where Applicable):- 13:30

ATTACHMENTS

RTI DL RELEASE - EHP

Reference	Description	Sample Description	Sample No.	Replicate	QC Type	Sample Coll	Sample Coll	Sample Coll	CH
Units									
PQL									
Method									

UW-00944	Caboolture	Caboolture	1	0	Regular	8/01/2014	11:18	11:18	
UW-00944	Caboolture	CCP Faecal	2	0	Regular	8/01/2014	8:00	8:00	
UW-00944	Caboolture	CCP Faecal	3	0	Regular	8/01/2014	8:30	8:30	
UW-00944	Caboolture	CCP Faecal	4	0	Regular	8/01/2014	9:00	9:00	
UW-00944	Caboolture	CCP Faecal	5	0	Regular	8/01/2014	9:30	9:30	
UW-00944	Caboolture	CCP Faecal	6	0	Regular	8/01/2014	10:00	10:00	

RTI DL RELEASE - EHP

Chlorine Free	solved Oxygen	pH	Turbidity	E.Cond.	d :- DO - Ind :- DO - Dilume added	lume of see
ILORINE_FR	DO	PH	TURBIDITY	CONDUCTIVITY		
mg/L	mg/L	pH Units	NTU	us/cm		
0.1	0.1	2	0.1	5		
FM11	FM02	FM03	FM04	FM01		
<0.1	8	8.1	9.2	447	8.82	7.3
					0.5	3

RTI DL RELEASE - EHP

ple 1 - DO Ie 1 - DO at. - Volume cple 2 - DO Ie 2 - DO at! - Volume c Calc (Samp Calc (Samp of Valid Dil

mg/L

8.9 8.77 100 0 0 0 0 0 1

RTI DL RELEASE - EHP

BOD ₅	COD	S Crucible N	Initial Weig	Final Weig	SS Volume	Suspended Sol	monia as lte + Nitrite	
BOD	COD					SUSPENDED_SAMMONIA_N	NOX	
mg/L	mg/L		g	g	mL	mg/L	mg/L	mg/L
3	10					2	0.05	0.05
CM02	CM43	CM12	CM12	CM12	CM12	CM12	CM22	CM22
<3	62	29	0.3336	0.3349	250	5	18.6	0.5

RTI DL RELEASE - EHP

al Nitrogen	Phosphorus	rganic N as	as N (TN-N	E. coli	otolerant coliforms
PERSULPH	PERSULPHATE		TKN	ECOLI	ECAL_COLI_MF
mg/L	mg/L	mg/L	mg/L	cfu/100mL	cfu/100mL
0.05	0.05	0.05	0.05	1	1
CM23	CM23	CM25	CM25	MM02	MM02

19.3 1.3 0.21 18.77

<1 <1
<1 <1
<1 <1
<1 <1
<1 <1

RTI DL RELEASE - EHP

REPORT OF ANALYSIS

JOB DESCRIPTION: Caboolture Caravan Park

CUSTOMER: Caboolture Caravan Park
26 Burnett Road
Caboolture QLD 4510

EMAIL: rooflepytyltd@exemail.com.au

CONTACT: Murray Woolnough

REPORT ID: UW-00567

DATE SAMPLED: 4/12/2013

DATE RECEIVED: 4/12/2013

ORDER NO: NA

REPORT LEGEND

ABBREVIATIONS

NA - Not Applicable
NT - Not Tested
ND - Not Detected
NS - No Sample
OR - Over Range of Method

< = Less than
> = Greater than
--- Test Not Required
S - Soluble

MPN - Most Probable Number
CFU - Colony Forming Unit
PFU - Plaque Forming Unit
EST - Estimated Count

NATA ACCREDITATION

TEST METHOD marked with * indicates NATA Accreditation does not cover the performance of this service.
TEST METHOD marked with X indicates tests performed by External Laboratory

- All sampling performed by this facility conforms to In-House Method FQ01.
- All samples processed on day of receipt. Samples were appropriately stored and preserved until actual tests performed, and analysed within required retention time as per AS 5667.1(1998) & AS 2031 (2012). Clients advised of any deviations.

Your Feedback is important to us. Your comments are welcome at the above email address or please feel free to telephone us at any time.

Unitywater - Laboratory Report

Caboolture Caravan Park

UW-00567

FINAL REPORT - All pages of this report have been checked and approved for release. This report overrides all previous reports.

Test Description	Units	Test Method	Caboolture Caravan Park 4/12/2013 11:12	CCP Faecal 1 4/12/2013 08:00	CCP Faecal 2 4/12/2013 08:30	CCP Faecal 3 4/12/2013 09:00	CCP Faecal 4 4/12/2013 09:30	CCP Faecal 5 4/12/2013 10:00
DATESAMPLED Time Sampled								
E. coli	cfu/100mL	MM02	---	<1	<1	<1	<1	<1
Thermotolerant coliforms	cfu/100mL	MM02	---	<1	<1	<1	<1	<1
Chlorine Free	mg/L	FM11	<0.1	---	---	---	---	---
Dissolved Oxygen	mg/L	FM02	7.6	---	---	---	---	---
pH	pH Units	FM03	7.5	---	---	---	---	---
Turbidity	NTU	FM04	3.6	---	---	---	---	---
E.Cond.	us/cm	FM01	765.0	---	---	---	---	---
BOD ₅	mg/L	CM02	<3	---	---	---	---	---
COD	mg/L	CM43	59	---	---	---	---	---
Suspended Solids	mg/L	CM12	<2.0	---	---	---	---	---
Ammonia as N	mg/L	CM22	30.1	---	---	---	---	---
Nitrate + Nitrite as N	mg/L	CM22	0.69	---	---	---	---	---
Total Nitrogen as N	mg/L	CM23	32.9	---	---	---	---	---
Total Phosphorus as P	mg/L	CM23	0.32	---	---	---	---	---
Organic N as N	mg/L	CM25	2.21	---	---	---	---	---
TKN as N (TN-NOX)	mg/L	CM25	32.27	---	---	---	---	---

Unitywater - Laboratory Report

Caboolture Caravan Park

UW-00567

FINAL REPORT - All pages of this report have been checked and approved for release. This report overrides all previous reports.

COMMENTS

Time Micro Commenced (Where Applicable):- 12:30

ATTACHMENTS

RTI DL RELEASE - EHP

REPORT OF ANALYSIS

JOB DESCRIPTION: Caboolture Caravan Park

CUSTOMER:	Caboolture Caravan Park 26 Burnett Road Caboolture QLD 4510	REPORT ID:	UW-01295
EMAIL:	roofleptyltd@exemail.com.au	DATE SAMPLED:	5/02/2014
CONTACT:	Murray Woolnough	DATE RECEIVED:	5/02/2014
		ORDER NO:	NA

REPORT LEGEND

ABBREVIATIONS

NA - Not Applicable
NT - Not Tested
ND - Not Detected
NS - No Sample
OR - Over Range of Method

< = Less than
> = Greater than
--- Test Not Required
S - Soluble

MPN - Most Probable Number
CFU - Colony Forming Unit
PFU - Plaque Forming Unit
EST - Estimated Count

NATA ACCREDITATION

TEST METHOD marked with * indicates NATA Accreditation does not cover the performance of this service.
TEST METHOD marked with X indicates tests performed by External Laboratory

- All sampling performed by this facility conforms to In-House Method FQ01.
- All samples processed on day of receipt. Samples were appropriately stored and preserved until actual tests performed, and analysed within required retention time as per AS 5667.1(1998) & AS 2031 (2012). Clients advised of any deviations.

Your Feedback is important to us. Your comments are welcome at the above email address or please feel free to telephone us at any time.

Unitywater - Laboratory Report

Caboolture Caravan Park

UW-01295

FINAL REPORT - All pages of this report have been checked and approved for release. This report overrides all previous reports.

Test Description	Units	Test Method	Caboolture Caravan Park	CCPFaecal 1	CCPFaecal 2	CCPFaecal 3	CCPFaecal 4	CCPFaecal 5
DATE SAMPLED			5/02/2014	5/02/2014	5/02/2014	5/02/2014	5/02/2014	5/02/2014
Time Sampled			10:54	08:00	08:30	09:00	09:30	10:00
E. coli	cfu/100mL	MM02	---	<1	<2	<2	<2	<2
Thermotolerant coliforms	cfu/100mL	MM02	---	<1	<2	<2	3EST	<2
Chlorine Free	mg/L	FM11	<0.1	---	---	---	---	---
Dissolved Oxygen	mg/L	FM02	5.4	---	---	---	---	---
pH	pH Units	FM03	8.0	---	---	---	---	---
Turbidity	NTU	FM04	72.7	---	---	---	---	---
E.Cond.	us/cm	FM01	1,260	---	---	---	---	---
BOD ₅	mg/L	CM02	26	---	---	---	---	---
COD	mg/L	CM43	270	---	---	---	---	---
Suspended Solids	mg/L	CM12	20.0	---	---	---	---	---
Ammonia as N	mg/L	CM22	75.0	---	---	---	---	---
Nitrate + Nitrite as N	mg/L	CM22	<0.25	---	---	---	---	---
Total Nitrogen as N	mg/L	CM23	75.0	---	---	---	---	---
Total Phosphorus as P	mg/L	CM23	6.36	---	---	---	---	---
Organic N as N	mg/L	CM25	<0.05	---	---	---	---	---
TKN as N (TN-NOX)	mg/L	CM25	75.00	---	---	---	---	---

Unitywater - Laboratory Report

Caboolture Caravan Park

UW-01295

FINAL REPORT - All pages of this report have been checked and approved for release. This report overrides all previous reports.

COMMENTS

ATTACHMENTS

RTI DL RELEASE - EHP

Page 3 of 3
Report Revision No: 00



Accredited for compliance with ISO/IEC 17025.
Accreditation No. 14414.

This report shall not be reproduced except in
full, without written approval of the laboratory.

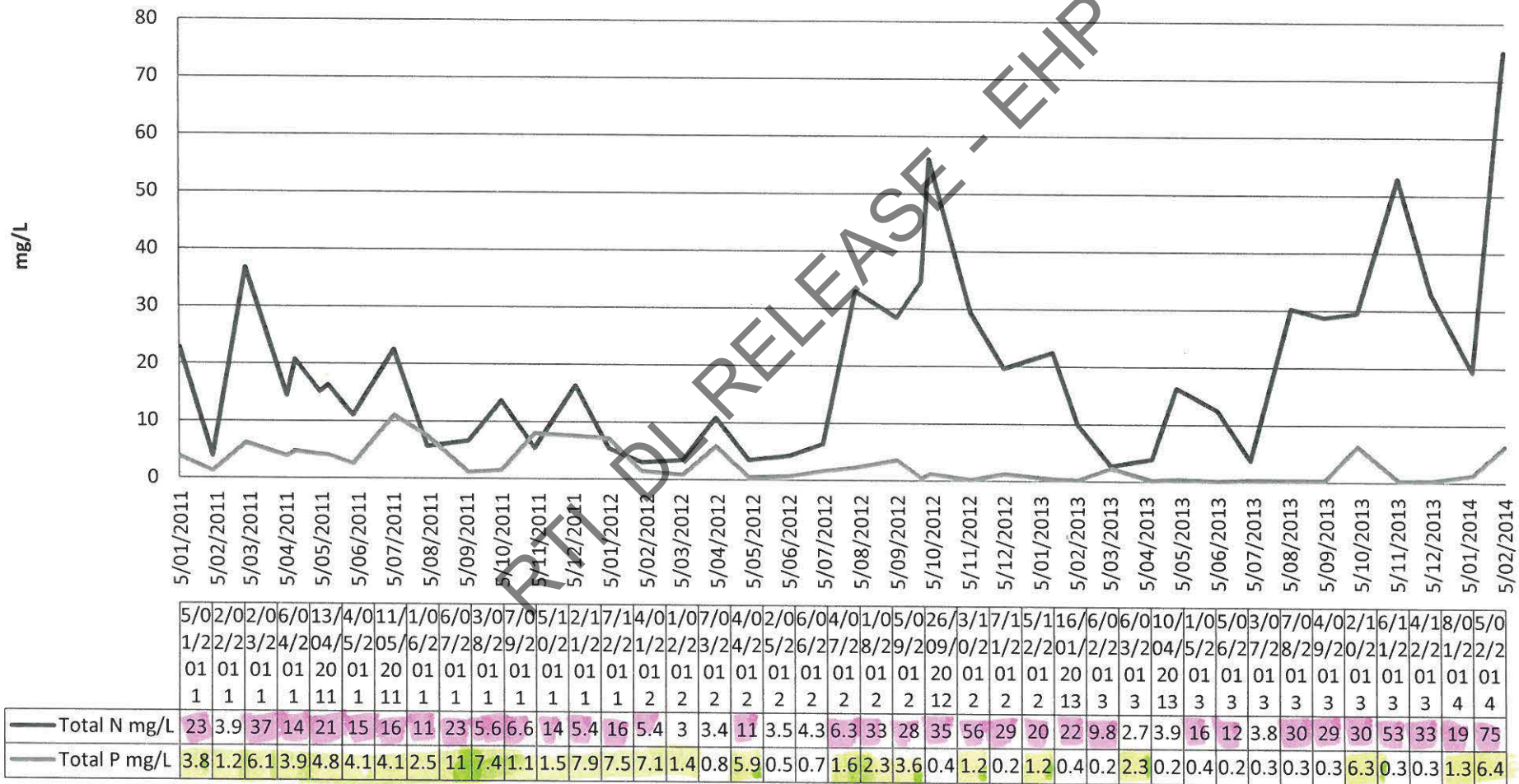
13-519

DL Documents

sch4p4(6) Personal information
Bob Sneehey
Scientific Services Manager

287 of 328

Monitoring Data for Total N and Total P monitoring results for January 2011
through to February 2014 Monitoring
From Roofley Pty Ltd t/a Caboolture Caravan Park, 26 Burnett Road
Caboolture 4510



Total P > 1mg/L Limit.
Total N > 5mg/L

Monitoring Data for Total N and Total P monitoring results for January 2011 through to February 2014

From Roofley Pty Ltd t/a Caboolture Caravan Park, 26 Burnett Road Caboolture 4510

Monitoring samples analysed by Unitywater Laboratory - Moreton Bay

		5/02/2014	8/01/2014	4/12/2013	6/11/2013	2/10/2013	4/09/2013	7/08/2013	3/07/2013	5/06/2013	1/05/2013
Total N	mg/L	75	19.3	32.9	52.9	29.5	28.7	30.2	3.8	12.4	16.3
Total P	mg/L	6.36	1.3	0.32	0.3	6.33	0.3	0.32	0.32	0.15	0.44
		5/01/2011	2/02/2011	2/03/2011	6/04/2011	13/04/2011	4/05/2011	11/05/2011	1/06/2011	6/07/2011	3/08/2011
Total N	mg/L	22.8	3.9	36.7	14.4	20.7	15.1	16.3	11	22.5	5.6
Total P	mg/L	3.76	1.21	6.12	3.87	4.75	4.14	4.12	2.53	11	7.41

RTI DL RELEASE - EHP

Jnitywater Laboratory - Moreton Bay

37 Weier Rd, Morayfield
 P.O. Box 953 Caboolture Qld 4510
 Phone: (07) 5420 0720
 Fax: (07) 5420 0716
 E-mail: labstaff@jnitywater.com

REPORT NUMBER: UMB131164 - 00

Final Report

ISSUE DATE: 11/06/13

REGISTRATION DETAILS

JOB DESCRIPTION: Caboolture Caravan Park
JOB REFERENCE: UMB131164
REGISTRATION DATE: 5/06/2013
ANALYSIS COMMENCED: 5/06/2013

CUSTOMER DETAILS

NAME: Caboolture Caravan Park
ADDRESS: 26 Burnett Road
 Caboolture QLD 4510

Signatories and Report Authorisation:

This document has been electronically signed by the authorised approver / signatory indicated below.
 Electronic signing has been carried out in compliance with procedures specified in QD07 and CQ03.

Authorised Approver	Function	Accreditation Category
Dawn Hadfield	Microbiologist	Biological
Mark Scott	Analyst	Chemical
Arlene Yarrow	Analyst	Chemical

Analyte	NATA	Method	LOR	Units	Caboolture Caravan Park 5/06/2013 10:45
Chlorine Free	C	FM11	0.1	mg/L	0.1 ✓
pH	C	FM03	1	pHU	7.8 ✓
Conductivity	C	FM01	5	µS/cm	562 ✓
Dissolved Oxygen	C	FM02	1	mg/L	8.90 ✓
Turbidity	C	FM04	1	NTU	<1 ✓

Analyte	NATA	Method	LOR	Units	Caboolture Caravan Park 5/06/2013 10:45
BOD	C	TM02	3	mg/L	<3 ✓
COD	C	TM43	10	mg/L	18 ✓
Suspended Solids	C	TM12	2	mg/L	6 ✓

Analyte	NATA	Method	LOR	Units	Caboolture Caravan Park 5/06/2013 10:45
Ammonia N	C	TM22F	0.02	mg/L	10.3
NOx	C	TM23F	0.02	mg/L	0.45
TKN	C	TM26F	0.5	mg/L	12.0
TKP	C	TM16TKP	0.02	mg/L	<0.15
Organic N	C	TM25F	0.5	mg/L	1.7
Total Nitrogen	C	TM25F	0.5	mg/L	12.4

Analyte	NATA	Method	LOR	Units	CCP Faecal 1 5/06/2013 08:00	CCP Faecal 2 5/06/2013 08:30	CCP Faecal 3 5/06/2013 09:00	CCP Faecal 4 5/06/2013 09:30
Faecal Coliforms	M	MM002	1	cfu/100mL	<1	<1	<1	<1

Analyte	NATA	Method	LOR	Units	CCP Faecal 5 5/06/2013 10:00
Faecal Coliforms	M	MM002	1	cfu/100mL	<1

Attachment/s:

NATA Accreditation:

- ☒ NATA Chemical Accreditation is held for the test.
- ☒ NATA Biological Accreditation is held for the test.
- ☐ NATA accreditation does not cover the performance of this service.
- JSC Lab analysis conducted at Unitywater Sunshine Coast Laboratory (NATA Accreditation 16643)
- JSC* Lab analysis conducted at Unitywater Sunshine Coast Laboratory (No NATA Accreditation)
- ☐ External Laboratory (refer to attachment/s).

Abbreviations

LOR: Limit of Reporting; NT: Not tested; ND: Not detected; NS: No sample; NA: Not assigned, test not requested; NR: Not Reported; EST: estimated count

Bold: Result is outside acceptance limits.

The laboratory welcomes your feedback on our performance. Please send your comments to bob.sheedy@unitywater.com

Reference	Description	Sample Description	Sample No.	Replicate	QC Type	Sample Date	Sample Time	Chlorine Free
Units								CHLORINE_FR
PQL								mg/L
Method								0.1
								FM11
UMB13116	Caboolture	Caboolture	1	0	Regular	5/06/2013	10:45	0.1
UMB13116	Caboolture	CCP Faecal	2	0	Regular	5/06/2013	8:00	
UMB13116	Caboolture	CCP Faecal	3	0	Regular	5/06/2013	8:30	
UMB13116	Caboolture	CCP Faecal	4	0	Regular	5/06/2013	9:00	
UMB13116	Caboolture	CCP Faecal	5	0	Regular	5/06/2013	9:30	
UMB13116	Caboolture	CCP Faecal	6	0	Regular	5/06/2013	10:00	

RTI DL RELEASE - EHP

pH	Conductivity	dissolved Oxygen	Turbidity	BOD	COD	Suspended Sol	Ammonia N	NOx
PH	CONDUCTIVITY	DO	TURBIDITY	BOD	COD	SUSPENDED_SAMMONIA_N		NOX
pHU	µS/cm	mg/L	NTU	mg/L	mg/L	mg/L	mg/L	mg/L
1	5	1	1	3	10	2	0.02	0.02
FM03	FM01	FM02	FM04	TM02	TM43	TM12	TM22F	TM23F
7.8	562	8.9	<1	<3	18	6	10.3	0.45

RTI DL RELEASE - EHP

TKN	TKP	Organic N	otal Nitrogeecal Coliforms	
TKN	TKP	ORGANIC_N	TAL_N_CA	EAL_COLI_MF
mg/L	mg/L	mg/L	mg/L	cfu/100mL
0.5	0.02	0.5	0.5	1
TM26F	TM16TKP	TM25F	TM25F	MM002
12	<0.15	1.7	12.4	

<1

<1

<1

<1

<1

RTI DL RELEASE - EHP

REPORT NUMBER: UMB131371 - 00

Final Report

ISSUE DATE: 10/07/13

REGISTRATION DETAILS

JOB DESCRIPTION: Caboolture Caravan Park
JOB REFERENCE: UMB131371
REGISTRATION DATE: 3/07/2013
ANALYSIS COMMENCED: 3/07/2013

CUSTOMER DETAILS

NAME: Caboolture Caravan Park
ADDRESS: 26 Burnett Road
 Caboolture QLD 4510

Signatories and Report Authorisation:

This document has been electronically signed by the authorised approver / signatory indicated below.
 Electronic signing has been carried out in compliance with procedures specified in QD07 and CQ03.

Authorised Approver	Function	Accreditation Category
Andrea Cobb	Technician	Biological
Mark Scott	Analyst	Chemical
Arlene Yarrow	Analyst	Chemical
Delmy Figueroa	Analyst	Chemical

Analyte	NATA	Method	LOR	Units	Caboolture Caravan Park 3/07/2013 11:10
Chlorine Free	C	FM11	0.1	mg/L	<0.1 ✓
pH	C	FM03	1	pHU	7.6 ✓
Conductivity	C	FM01	5	µS/cm	474 ✓
Dissolved Oxygen	C	FM02	1	mg/L	9.85 ✓
Turbidity	C	FM04	1	NTU	5 ✓

Analyte	NATA	Method	LOR	Units	Caboolture Caravan Park 3/07/2013 11:10
BOD	C	TM02	3	mg/L	<3 ✓
COD	C	TM43	10	mg/L	39 ✓
Suspended Solids	C	TM12	2	mg/L	3 ✓

Analyte	NATA	Method	LOR	Units	Caboolture Caravan Park 3/07/2013 11:10
Ammonia N	C	TM22F	0.02	mg/L	1.63
NOx	C	TM23F	0.02	mg/L	0.84
TKN	C	TM26F	0.5	mg/L	3.0
TKP	C	TM16TKP	0.02	mg/L	0.32
Organic N	C	TM25F	0.5	mg/L	1.3
Total Nitrogen	C	TM25F	0.5	mg/L	3.8

X close to 3mg/L standard

Analyte	NATA	Method	LOR	Units	CCP Faecal 1 3/07/2013 08:00	CCP Faecal 2 3/07/2013 08:30	CCP Faecal 3 3/07/2013 09:00	CCP Faecal 4 3/07/2013 09:30
Faecal Coliforms	M	MM002	1	cfu/100mL	<1	1 EST	<1	<1

Analyte	NATA	Method	LOR	Units	CCP Faecal 5 3/07/2013 10:00
Faecal Coliforms	M	MM002	1	cfu/100mL	<1

Attachment/s:

NATA Accreditation:

- 3 NATA Chemical Accreditation is held for the test.
- W NATA Biological Accreditation is held for the test.
- . NATA accreditation does not cover the performance of this service.
- JSC Lab analysis conducted at Unitywater Sunshine Coast Laboratory (NATA Accreditation 16643)
- JSC* Lab analysis conducted at Unitywater Sunshine Coast Laboratory (No NATA Accreditation)
- E External Laboratory (refer to attachment/s).

Abbreviations

LOR: Limit of Reporting; NT: Not tested; ND: Not detected; NS: No sample; NA: Not assigned, test not requested; NR: Not Reported; EST: estimated count
Bold: Result is outside acceptance limits.

The laboratory welcomes your feedback on our performance. Please send your comments to nicholas.heeney@unitywater.com

Reference	Description	Sample Description	Sample No.	Replicate	QC Type	Sample Date	Sample Time	Chlorine Free CHLORINE_FR
Units								mg/L
PQL								0.1
Method								FM11
UMB13137	Caboolture	Caboolture	1	0	Regular	3/07/2013	11:10	<0.1
UMB13137	Caboolture	CCP Faecal	2	0	Regular	3/07/2013	8:00	
UMB13137	Caboolture	CCP Faecal	3	0	Regular	3/07/2013	8:30	
UMB13137	Caboolture	CCP Faecal	4	0	Regular	3/07/2013	9:00	
UMB13137	Caboolture	CCP Faecal	5	0	Regular	3/07/2013	9:30	
UMB13137	Caboolture	CCP Faecal	6	0	Regular	3/07/2013	10:00	

RTI DL RELEASE - EHP

pH	Conductivity	Dissolved Oxygen	Turbidity	BOD	COD	Suspended Sol	Ammonia N	NOx
PH	CONDUCTIVITY	DO	TURBIDITY	BOD	COD	SUSPENDED_SAMMONIA_N	NOX	
pHU	µS/cm	mg/L	NTU	mg/L	mg/L	mg/L	mg/L	mg/L
1	5	1	1	3	10	2	0.02	0.02
FM03	FM01	FM02	FM04	TM02	TM43	TM12	TM22F	TM23F
7.6	474	9.85	5 <3		39	3	1.63	0.84

RTI DL RELEASE - EHP

TKN	TKP	Organic N	otal Nitrogeecal Coliforms	
TKN	TKP	ORGANIC_N	TAL_N_CA	ECAL_COLI_MF
mg/L	mg/L	mg/L	mg/L	cfu/100mL
0.5	0.02	0.5	0.5	1
TM26F	TM16TKP	TM25F	TM25F	MM002
3	0.32	1.3	3.8	

<1
1 EST
<1
<1
<1

RTI DL RELEASE - EHP

REPORT NUMBER: UMB131645 - 00

Final Report

ISSUE DATE: 13/08/13

REGISTRATION DETAILS

JOB DESCRIPTION: Caboolture Caravan Park
JOB REFERENCE: UMB131645
REGISTRATION DATE: 7/08/2013
ANALYSIS COMMENCED: 7/08/2013

CUSTOMER DETAILS

NAME: Caboolture Caravan Park
ADDRESS: 26 Burnett Road
 Caboolture QLD 4510

Signatories and Report Authorisation:

This document has been electronically signed by the authorised approver / signatory indicated below.
 Electronic signing has been carried out in compliance with procedures specified in QD07 and CQ03.

Authorised Approver	Function	Accreditation Category
---------------------	----------	------------------------

Arlene Yarrow	Analyst	Biological
---------------	---------	------------

Arlene Yarrow	Analyst	Chemical
Delmy Figueroa	Analyst	Chemical

Analyte	NATA	Method	LOR	Units	Caboolture Caravan Park 7/08/2013 10:10
Chlorine Free	C	FM11	0.1	mg/L	0.1 ✓
pH	C	FM03	1	pHU	7.8 ✓
Conductivity	C	FM01	5	µS/cm	692 ✓
Dissolved Oxygen	C	FM02	1	mg/L	10.79 ✓
Turbidity	C	FM04	1	NTU	7 ✓

Analyte	NATA	Method	LOR	Units	Caboolture Caravan Park 7/08/2013 10:10
BOD	C	TM02	3	mg/L	<3 ✓
COD	C	TM43	10	mg/L	13 ✓
Suspended Solids	C	TM12	2	mg/L	5 ✓

Analyte	NATA	Method	LOR	Units	Caboolture Caravan Park 7/08/2013 10:10
Ammonia N	C	TM22F	0.02	mg/L	27.6
NOx	C	TM23F	0.02	mg/L	0.48
TKN	C	TM26F	0.5	mg/L	29.7
TKP	C	TM16TKP	0.02	mg/L	0.32
Organic N	C	TM25F	0.5	mg/L	2.1
Total Nitrogen	C	TM25F	0.5	mg/L	30.2

Analyte	NATA	Method	LOR	Units	CCP Faecal 1 7/08/2013 08:00	CCP Faecal 2 7/08/2013 08:30	CCP Faecal 3 7/08/2013 09:00	CCP Faecal 4 7/08/2013 09:30
Faecal Coliforms	M	MM002	1	cfu/100mL	<1	<1	<1	<1

Analyte	NATA	Method	LOR	Units	CCP Faecal 5 7/08/2013 10:00
Faecal Coliforms	M	MM002	1	cfu/100mL	<1

Attachment/s:

NATA Accreditation:

3 NATA Chemical Accreditation is held for the test.

W NATA Biological Accreditation is held for the test.

• NATA accreditation does not cover the performance of this service.

JSC Lab analysis conducted at Unitywater Sunshine Coast Laboratory (NATA Accreditation 16643)

JSC* Lab analysis conducted at Unitywater Sunshine Coast Laboratory (No NATA Accreditation)

E External Laboratory (refer to attachment/s).

Abbreviations

_OR: Limit of Reporting; NT: Not tested; ND: Not detected; NS: No sample; NA: Not assigned, test not requested; NR: Not Reported; EST: estimated count

Bold: Result is outside acceptance limits.

The laboratory welcomes your feedback on our performance. Please send your comments to nicholas.heeney@unitywater.com

Reference	Description	Sample Description	Sample No.	Replicate	QC Type	Sample Date	Sample Time	Chlorine Free
Units								CHLORINE_FR
PQL								mg/L
Method								0.1
								FM11
UMB13164!	Caboolture	Caboolture	1	0	Regular	7/08/2013	10:10	0.1
UMB13164!	Caboolture	CCP Faecal	2	0	Regular	7/08/2013	8:00	
UMB13164!	Caboolture	CCP Faecal	3	0	Regular	7/08/2013	8:30	
UMB13164!	Caboolture	CCP Faecal	4	0	Regular	7/08/2013	9:00	
UMB13164!	Caboolture	CCP Faecal	5	0	Regular	7/08/2013	9:30	
UMB13164!	Caboolture	CCP Faecal	6	0	Regular	7/08/2013	10:00	

RTI DL RELEASE - EHP

pH	Conductivity	dissolved Oxygen	Turbidity	BOD	COD	Suspended Solids	Ammonia N	NOx
PH	CONDUCTIVITY	DO	TURBIDITY	BOD	COD	SUSPENDED_SAMMONIA_N		NOX
pHU	µS/cm	mg/L	NTU	mg/L	mg/L	mg/L	mg/L	mg/L
1	5	1	1	3	10	2	0.02	0.02
FM03	FM01	FM02	FM04	TM02	TM43	TM12	TM22F	TM23F
7.8	692	10.79	7 <3		13	5	27.6	0.48

RTI DL RELEASE - EHP

TKN	TKP	Organic N	otal Nitrogeecal Coliforms	
TKN	TKP	ORGANIC_N	TAL_N_CAECAL_COLI_MF	
mg/L	mg/L	mg/L	mg/L	cfu/100mL
0.5	0.02	0.5	0.5	1
TM26F	TM16TKP	TM25F	TM25F	MM002
29.7	0.32	2.1	30.2	

<1

<1

<1

<1

<1

RTI DL RELEASE - EHP

REPORT NUMBER: UMB131884 - 00

Final Report

ISSUE DATE: 9/09/13

REGISTRATION DETAILS

JOB DESCRIPTION: Caboolture Caravan Park
JOB REFERENCE: UMB131884
REGISTRATION DATE: 4/09/2013
ANALYSIS COMMENCED: 4/09/2013

CUSTOMER DETAILS

NAME: Caboolture Caravan Park
ADDRESS: 26 Burnett Road
 Caboolture QLD 4510

Signatories and Report Authorisation:

This document has been electronically signed by the authorised approver / signatory indicated below.
 Electronic signing has been carried out in compliance with procedures specified in QD07 and CQ03.

Authorised Approver	Function	Accreditation Category
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Dawn Hadfield	Microbiologist	Biological
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Mark Scott	Analyst	Chemical
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Arlene Yarrow	Analyst	Chemical
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Analyte	NATA	Method	LOR	Units	Caboolture Caravan Park 4/09/2013 10:58
Chlorine Free	C	FM11	0.1	mg/L	<0.1 ✓
pH	C	FM03	1	pHU	7.8 ✓
Conductivity	C	FM01	5	µS/cm	595 ✓
Dissolved Oxygen	C	FM02	1	mg/L	6.18 ✓
Turbidity	C	FM04	1	NTU	3 ✓

Analyte	NATA	Method	LOR	Units	Caboolture Caravan Park 4/09/2013 10:58
BOD	C	TM02	3	mg/L	<3 ✓
COD	C	TM43	10	mg/L	37 ✓
Suspended Solids	C	TM12	2	mg/L	5 ✓

Analyte	NATA	Method	LOR	Units	Caboolture Caravan Park 4/09/2013 10:58
Ammonia N	C	TM22F	0.02	mg/L	22.9
NOx	C	TM23F	0.02	mg/L	0.57
TKN	C	TM26F	0.5	mg/L	28.1
TKP	C	TM16TKP	0.02	mg/L	0.30
Organic N	C	TM25F	0.5	mg/L	5.2
Total Nitrogen	C	TM25F	0.5	mg/L	28.7

Analyte	NATA	Method	LOR	Units	CCP Faecal 1 4/09/2013 08:00	CCP Faecal 2 4/09/2013 08:30	CCP Faecal 3 4/09/2013 09:00	CCP Faecal 4 4/09/2013 09:30
Faecal Coliforms	M	MM002	1	cfu/100mL	<1	<1	<1	<1

Analyte	NATA	Method	LOR	Units	CCP Faecal 5 4/09/2013 10:00
Faecal Coliforms	M	MM002	1	cfu/100mL	<1

Attachment/s:

NATA Accreditation:

☒ NATA Chemical Accreditation is held for the test.

☒ NATA Biological Accreditation is held for the test.

☐ NATA accreditation does not cover the performance of this service.

JSC Lab analysis conducted at Unitywater Sunshine Coast Laboratory (NATA Accreditation 16643)

JSC* Lab analysis conducted at Unitywater Sunshine Coast Laboratory (No NATA Accreditation)

☐ External Laboratory (refer to attachment/s).

Abbreviations

LOR: Limit of Reporting; NT: Not tested; ND: Not detected; NS: No sample; NA: Not assigned, test not requested; NR: Not Reported; EST: estimated count

Bold: Result is outside acceptance limits.

The laboratory welcomes your feedback on our performance. Please send your comments to nicholas.heeney@unitywater.com

Reference	Description	Sample Description	Sample No.	Replicate	QC Type	Sample Date	Sample Time	Chlorine Free CHLORINE_FR
	Units							mg/L
	PQL							0.1
	Method							FM11

UMB13188	Caboolture	Caboolture	1	0	Regular	4/09/2013	10:58	<0.1
UMB13188	Caboolture	CCP Faecal	2	0	Regular	4/09/2013	8:00	
UMB13188	Caboolture	CCP Faecal	3	0	Regular	4/09/2013	8:30	
UMB13188	Caboolture	CCP Faecal	4	0	Regular	4/09/2013	9:00	
UMB13188	Caboolture	CCP Faecal	5	0	Regular	4/09/2013	9:30	
UMB13188	Caboolture	CCP Faecal	6	0	Regular	4/09/2013	10:00	

RTI DL RELEASE - EHP

pH	Conductivity	solved Oxygen	Turbidity	BOD	COD	suspended Sol	Ammonia N	NOx
PH	CONDUCTIVITY	DO	TURBIDITY	BOD	COD	SUSPENDED_SAMMONIA_N		NOX
pHU	µS/cm	mg/L	NTU	mg/L	mg/L	mg/L	mg/L	mg/L
1	5	1	1	3	10	2	0.02	0.02
FM03	FM01	FM02	FM04	TM02	TM43	TM12	TM22F	TM23F

7.8	595	6.18	3 <3		37	5	22.9	0.57
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RTI DL RELEASE - EHP

TKN	TKP	Organic N total Nitrogeecal Coliforms		
TKN	TKP	ORGANIC_N TAL_N CAECAL_COLI_MF		
mg/L	mg/L	mg/L	mg/L	cfu/100mL
0.5	0.02	0.5	0.5	1
TM26F	TM16TKP	TM25F	TM25F	MM002

28.1

0.3

5.2

28.7

<1

<1

<1

<1

<1

RTI DL RELEASE - EHP

Development Permit

EPA Permit ¹ number:	IPDE00921208
Application (Converted development approval) No.	SR0166
Relevant Laws and Policies:	Environmental Protection Act 1994 and any subordinate legislation

Development Description

Property/Location

Lot 2 RP 115413, Parish of Canning, County of Canning and other ancillary works connected to the Caboolture Caravan Park Sewage Treatment Works

located at: Lower King Street
CABOOLTURE QLD 4510

Carrying out of Environmentally Relevant Activity (ERA)

ERA 15(b) - Sewage treatment-operating a standard sewage treatment works having a peak design capacity to treat sewage of 100 or more equivalent persons but less than 1500 equivalent persons

Additional information for applicants

This approval pursuant to the *Environmental Protection Act 1994* does not remove the need to obtain any further approval for this development which might be required by other State and / or Commonwealth Legislation. Applicants are advised to check with all relevant statutory authorities. Applicants also should comply with all relevant legislation.

It is a requirement of the *Environmental Protection Act 1994* that if the owner or occupier of this site becomes aware a notifiable activity (as defined under schedule 2 of the *Environmental Protection Act 1994*) is being carried out on this land or that the land has been affected by a hazardous contaminant, they must, within 30 days after becoming so aware, give notice to the Environmental Protection Agency.

Environmentally Relevant Activities

The aforementioned description of any environmentally relevant activity (ERA) for which this permit is issued is simply a restatement of the ERA as prescribed in the legislation at the time of issuing this permit. Where there is any conflict between the abovementioned description of the ERA for which this permit is issued and the conditions specified herein as to the scale, intensity or manner of carrying out of the ERA, then such conditions prevail to the extent of the inconsistency.

¹ Permit includes licences, approvals, permits, authorisations, certificates, sanctions or equivalent/similar as required by legislation administered by the Environmental Protection Agency and the Queensland Parks and Wildlife Service



This permit authorises the ERA. It does not authorise environmental harm unless a condition within this permit explicitly authorises that harm. Where there is no such condition, or the permit is silent on a matter, the lack of a condition or silence shall not be construed as authorising harm.

In addition to this permit, the person to carry out the ERA must be a registered operator under the *Environmental Protection Act 1994*. For the person to become a registered operator, they must apply for a registration certificate under section 73F of the *Environmental Protection Act 1994*.

sch4p4(6) Personal information

Delegate of Administering Authority
Environmental Protection Act 1994

Date:

28.8.08

RTI DL RELEASE - EHP

Conditions of the Development Approval

This development approval consists of the following schedules of conditions relevant to various issues: The aforementioned description of the environmentally relevant activity (ERA) for which this development approval is issued is simply a restatement of the activity as prescribed in the legislation at the time of issuing the approval. Where there is any conflict between the above description of the ERA for which this development approval is issued and the conditions as specified in this development approval as to the scale, intensity or manner of carrying out of the ERA, then such conditions prevail to the extent of the inconsistency.

This development approval consists of the following schedules-

Schedule A – General Conditions

Schedule B – Air

Schedule C – Water

Schedule D – Stormwater Management

Schedule E – Land Application

Schedule F – Noise

Schedule G – Waste Management

Schedule H – Self Monitoring and Reporting

Schedule I – Definitions

RTI DL RELEASE - EHP



SCHEDULE A - GENERAL CONDITIONS

Compliance with Development Approval

- (A1) Contaminants must not be released to the environment other than in accordance with this development approval.
- (A2) The registered operator of this development approval must:
- (a) install and operate all works and control equipment, and
 - (b) take all measures, perform all acts and do all things, necessary to ensure compliance with the conditions of this development approval.

Display of Development Approval

- (A3) A copy of this development approval must be kept in a location readily accessible to personnel carrying out the activity.

Trained Operators

- (A4) All persons engaged in the conduct of the activity, including but not limited to employees and contract staff, must be:
- (i) trained in the procedures and practices necessary to:
 - (a) comply with the conditions of this development approval, and
 - (b) prevent environmental harm during normal operation and emergencies; or
 - (ii) under the close supervision of such a trained person.

Inspections by Authorised Persons

- (A5) At all reasonable times, and to the satisfaction of an authorised person, the following must be provided to enable an authorised person to check compliance with the conditions of this development approval:
- (i) monitoring facilities, and
 - (ii) access to such facilities, and
 - (iii) any reasonable assistance which the authorised person deems necessary.

Records

- (A6) Any record required to be kept by a condition of this development approval must be kept at the approved place and be available for examination by an authorised person.
- (A7) Copies of any record or document required to be kept by a condition of this development approval must be provided to any authorised person or the administering authority on request.

Alterations

- (A8) No change, replacement or operation of any plant or equipment is permitted if the change, replacement or operation of the plant or equipment increases, or is likely to substantially increase, the risk of environmental harm.

¹ Permit includes licences, approvals, permits, authorisations, certificates, sanctions or equivalent/similar as required by legislation administered by the Environmental Protection Agency and the Queensland Parks and Wildlife Service
Environmental Protection Agency
www.epa.qld.gov.au ABN 87 221 158 786



Calibration

- (A9) All instruments and measuring devices used for the measurement or monitoring of any parameter under any condition of this development approval must be calibrated, and appropriately operated and maintained.

Site-Based Management Plan

- (A10) The registered operator of this development approval, must develop and implement an effective and appropriate Site-based Management Plan which details how the registered operator of this development approval will manage the actual and potential environmental impacts resulting from the carrying out of the environmentally relevant activity.
- (A11) The Site-based Management Plan must address at least the following matters:
- (i) Routine operating procedures to prevent or minimise environmental harm during normal operations;
 - (ii) Contingency plans and emergency procedures to deal with foreseeable risks and hazards including corrective responses to prevent and mitigate environmental harm;
 - (iii) Handling of environmental complaints;
 - (iv) Keeping and production of environmental records and reports;
 - (v) Lines and methods of communication including a feedback mechanism to ensure that management is made aware of potential environmental problems and any failure of procedures adopted; and
 - (vi) Staff training and awareness of environmental issues related to the operation of the environmentally relevant activities, including responsibilities under the *Environmental Protection Act*.
- (A12) A copy of the Site-based Management Plan must be kept at the approved place and be available for examination by an authorised person on request.
- (A13) The registered operator of this development approval must not implement a Site-based Management Plan or amend a Site-based Management Plan where such implementation or amendment would result in a contravention of any condition of this development approval.

Nuisance

- (A14) Notwithstanding any other condition of this development approval, this development approval does not authorise any release of contaminants which causes or is likely to cause an environmental nuisance beyond the boundaries of the approved place.

End of Conditions for Schedule A

SCHEDULE B - AIR

Release of Contaminants to the Atmosphere

- (B1) The environmentally relevant activity must be carried out by such practicable means necessary to prevent the release or likelihood of release of contaminants to the atmosphere.
- (B2) Where it is not practicable to prevent the release of contaminants to the atmosphere as required by condition number B1, the environmentally relevant activity must be carried out by such practicable means necessary to minimise the release or likelihood of any such release of contaminants to the atmosphere.

Noxious or Offensive Odour

- (B3) Notwithstanding any other condition of this development approval, no release of contaminants from the approved place is to cause a noxious or offensive odour beyond the boundaries of the approved place.

End of Conditions for Schedule B

RTI DL RELEASE - EHP



SCHEDULE C - WATER**Release of Contaminants to Waters**

- (C1) Contaminants must not be directly or indirectly released from the approved place to any waters or the bed and banks of any waters except as permitted under the Water Schedule or the Stormwater Management Schedule.
- (C2) The only contaminants permitted to be released from the approved place at the release points are sewage treatment effluents from the sewage treatment plant.

Release Point

- (C3) Contaminants must not be directly or indirectly released from any source on the approved place to any waters at any location other than the contaminants and sources at the location listed below:

Release Point W1-Sewage wastes from the treatment plant via an outfall pipe to waters described as the Caboolture River at 18.0 km AMTD.

Release Point Details

- (C4) Release Point W1 must be submerged at all times.

Quantity of Contaminants Released

- (C5) The total quantity of contaminants released from release point W1 during any dry weather day must not exceed 88 cubic metres and in any day must not exceed 200 cubic metres.

Quality Characteristics Of Release to Waters

- (C6) The release of contaminants to waters must comply, at the sampling and in-situ measurement points specified in Schedule H, with each of the limits specified in Schedule C Table 1 for each quality characteristic.

SCHEDULE C - TABLE 1 - RELEASE QUALITY CHARACTERISTIC LIMITS

QUALITY CHARACTERISTICS	RELEASE LIMIT	LIMIT TYPE
5-day Biochemical Oxygen Demand (uninhibited)	20 mg/L	80 percentile
5-day Biochemical Oxygen Demand (uninhibited)	40 mg/L	maximum
Suspended Solids	30 mg/L	80 percentile
Suspended Solids	60 mg/L	maximum
pH (pH Units)	6.5 to 8.5	range
Dissolved Oxygen	2.0 mg/L	minimum
Free Chlorine Residual	0.7 mg/L	maximum
Faecal Coliforms	1000 organisms per 100 mL as a median value (minimum of 5 samples taken at not less than half-hourly intervals in any one (1) day, with 4 out of the 5 samples containing less than 4000 organisms per 100 mL)	

- (C7) Notwithstanding the quality characteristic limits specified in Schedule C Table 1, the release of contaminants to waters must comply with the following qualitative characteristics:

- (i) The release must not have any properties nor contain any organisms or other contaminants which are capable of causing environmental harm.

- (ii) The release must not produce any slick or other visible evidence of oil or grease, nor contain visible floating oil, grease, scum, litter or other objectionable matter.

End of Conditions for Schedule C

RTI DL RELEASE - EHP

Release



SCHEDULE D - STORMWATER MANAGEMENT

Contaminant Releases Caused by Rainfall

- (D1) The environmentally relevant activity must be carried out by such practicable means necessary to prevent the contact of incident rainfall and stormwater runoff with wastes or other contaminants.
- (D2) Where it is not practicable to prevent contact as required by condition number D1 above, the environmentally relevant activity must be carried out by such practicable means necessary to minimise any such contact.

Release of contaminated stormwater runoff

- (D3) Except as otherwise provided by the conditions of the Stormwater Management Schedule and the Water Schedule of this development approval, the environmentally relevant activity must be carried out by such practicable means necessary to prevent the release or likelihood of release of contaminated runoff from the approved place to any stormwater drain or waters or the bed or banks of any such waters.
- (D4) Where it is not practicable to prevent any release of contaminated runoff as required by condition number D3, the environmentally relevant activity must be carried out by such practicable means necessary to minimise any such release or the likelihood of any such release.

Spillage and Cleanup

- (D5) Any spillage of wastes, contaminants or other materials must be cleaned up as quickly as practicable. Such spillages must not be cleaned up by hosing, sweeping or otherwise releasing such wastes, contaminants or material to any stormwater drainage system, roadside gutter or waters.

Acid Sulphate Soils

- (D6) Any acid sulphate soils or potential acid sulphate soils disturbed, extracted or unearthed as a result of carrying out the environmentally relevant activity or activities must be stored and/or treated and/or disposed of so as not to cause environmental harm to surface waters and/or groundwaters.

Chemical Storage

- (D7) All dry chemicals must be stored in weather proof enclosures.

End of Conditions for Schedule D

SCHEDULE E - LAND APPLICATION

Release of Contaminants to Land

- (E1) The environmentally relevant activity must be carried out by such practicable means necessary to prevent the release or likelihood of release of contaminants to land.
- (E2) Where it is not practicable to prevent any release of contaminants to land as required by condition number E1, the environmentally relevant activity must be carried out by such practicable means necessary to minimise the release or likelihood of release of any such contaminants to land.

End of Conditions of Schedule E

RTI DL RELEASE - EHP



SCHEDULE F - NOISE**Emission of Noise**

- (F1) The environmentally relevant activity must be carried out by such practicable means necessary to prevent the emission or likelihood of emission of noise that constitutes annoyance.
- (F2) Where it is not practicable to prevent any emission of noise as required by condition number F1, the environmentally relevant activity must be carried out by such practicable means necessary to minimise any such emission of noise that constitutes annoyance.
- (F3) In the event of a complaint about noise that constitutes annoyance being made to the administering authority, that the administering authority considers is not frivolous or vexatious, then the emission of noise from the approved place must not result in levels greater than those specified in Schedule F, Table 1.

SCHEDULE F - TABLE 1

NOISE LIMITS AT A NOISE SENSITIVE PLACE	
Period	Noise Level at a Noise Sensitive Place Measured as the Adjusted Maximum Sound Pressure Level <small>L_{Amax adj, T}</small>
7 am - 6 pm	Background noise level plus 5 dB(A)
6 pm - 10 pm	Background noise level plus 5 dB(A)
10 pm - 7 am	Background noise level plus 3 dB(A)
NOISE LIMITS AT A COMMERCIAL PLACE	
Period	Noise Level at a Commercial Place measured as the Adjusted Maximum Sound Pressure Level <small>L_{Amax adj, T}</small>
7 am - 6 pm	Background noise level plus 10 dB(A)
6 pm - 10 pm	Background noise level plus 10 dB(A)
10 pm - 7 am	Background noise level plus 8 dB(A)

End of Conditions for Schedule F

SCHEDULE G - WASTE MANAGEMENT**General**

- (G1) Waste must not be released to the environment, stored, transferred or disposed of contrary to any condition of this development approval.
- (G2) The registered operator of this development approval must not:
- (i) burn waste at or on the approved place; nor
 - (ii) allow waste to burn or be burned at or on the approved place; nor
 - (iii) remove waste from the approved place and burn such waste elsewhere.

Waste Management Procedures

- (G3) Procedures must be implemented to ensure that wastes are minimised, recycled, stored, handled and transferred in a proper and efficient manner and that any disposal of waste (excepting any release of waste provided for by a condition of this development approval) is to an appropriate facility that accepts such waste.

Alternative Disposal/Treatment Options

- (G4) The registered operator of this development approval must investigate and evaluate the following alternative treatment and disposal options for treated sewage effluent:
- (i) disposal of effluent to the Caboolture North Sewage Treatment Plant;
 - (ii) total land disposal with sufficient wet weather storage; and
 - (iii) disposal to the Caboolture River with a maximum total phosphorus content of 1.0 mg/L
- (G5) A report, to comply with condition number G4, including a recommendation as to the preferred option, must be prepared and submitted to the administering authority by 1 May 1997.
- (G6) The registered operator of this development approval must implement the chosen option as recommended in the report compiled under condition number G5 by 1 March 1998.

Off Site Movement

- (G7) Where regulated waste is removed from the approved place (other than by a release as permitted under another schedule of this development approval), the registered operator of this development approval must monitor and record the following:
- (i) the date, quantity and type of waste removed; and
 - (ii) name of the waste transporter and/or disposal operator that removed the waste; and
 - (iii) the intended treatment/disposal destination of the waste.

(NOTE: Records of documents maintained in compliance with a waste tracking system established under the *Environmental Protection Act 1994* or any other law for regulated waste will be deemed to satisfy this condition).

- (G8) Regulated waste must not be sent for disposal at any facility without the written approval of the person operating that facility.

Records

- (G9) Records must be maintained for a period of five (5) years for all wastes mentioned in this schedule.

Notification of Improper Disposal Of Regulated Waste

- (G10) If the registered operator of this development approval becomes aware that a person has removed regulated waste from the approved place and disposed of the regulated waste in a manner which is not authorised by this development approval or is improper or unlawful, then the registered operator of this development approval must, as soon as practicable, notify the administering authority of all relevant facts, matters and circumstances known concerning the disposal.

End of Conditions for Schedule G

RTI DL RELEASE - EHP

Release



SCHEDULE H - SELF MONITORING AND REPORTING

Complaint Recording

- (H1) All complaints received by the registered operator of this development approval relating to operations at the approved place must be recorded in a log book with the following details:
- (i) nature, time and date of complaint;
 - (ii) type of communication (telephone, letter, personal etc.);
 - (iii) name, contact address and contact telephone number of complainant
(Note: if the complainant does not wish to be identified then "not identified" is to be recorded);
 - (iv) response and investigation undertaken as a result of the complaint;
 - (v) name of person responsible for investigating complaint; and
 - (vi) action taken as a result of the complaint investigation and signature of the person responsible.
- (H2) The complaints record required by condition number H1 must be maintained for a period of not less than five (5) years.

Incident Recording

- (H3) A record must be maintained of events including but not limited to:
- (i) the time, date and duration of equipment malfunctions, that may affect the environmental performance of the approved place; and
 - (ii) any shut-downs of equipment upon which the environmental performance of the approved place depends.
- (H4) The record required by condition number H3 must be maintained for a period of not less than five (5) years.

Notification of Emergencies and Incidents

- (H5) As soon as practicable after becoming aware of any emergency or incident which results in the release of contaminants not in accordance, or reasonably expected to be not in accordance with the conditions of this development approval, the registered operator of this development approval must notify the administering authority of the release by telephone or facsimile.
- (H6) The notification of emergencies or incidents as required by condition number H5 must include but not be limited to the following:
- (i) the registered operator of the development approval;
 - (ii) the location of the emergency or incident;
 - (iii) the number of the development approval;
 - (iv) the name and telephone number of the designated contact person;
 - (v) the time of the release;
 - (vi) the time the registered operator of the development approval became aware of the release;
 - (vii) the suspected cause of the release;
 - (viii) the environmental harm caused, threatened, or suspected to be caused by the release; and
 - (ix) actions taken to prevent further any release and mitigate any environmental harm caused by the release.
- (H7) Not more than fourteen (14) days following the initial notification of an emergency or incident, the registered operator of the development approval must provide written advice of the information supplied in accordance with condition number H6 in addition to:
- (i) proposed actions to prevent a recurrence of the emergency or incident; and
 - (ii) outcomes of actions taken at the time to prevent or minimise environmental harm.

- (H8) As soon as practicable, but not more than six (6) weeks following the conduct of any environmental monitoring performed in relation to the emergency or incident, which results in the release of contaminants not in accordance, or reasonably expected to be not in accordance with the conditions of this development approval, the registered operator of the development approval must provide written advice of the results of any such monitoring performed to the administering authority.

Monitoring of Contaminant Releases to Waters

- (H9) The registered operator of this development approval is responsible for the making of determinations of the quality of the contaminants released for the release points, quality characteristics, and at the frequency specified in Schedule H Table 1:

SCHEDULE H - TABLE 1

Quality Characteristic	Units	Frequency (not less than)
5-day Biochemical Oxygen Demand	mg/L	Monthly
Suspended Solids	mg/L	Monthly
pH	pH scale	Monthly
Dissolved Oxygen	mg/L	Monthly
Free Chlorine Residual	mg/L	Monthly
Faecal Coliforms	cfu/100 mL	Monthly
Total Nitrogen (as Nitrogen)	mg/L	Monthly
Total Phosphorus (as Phosphorus)	mg/L	Monthly

Sampling and In-situ Monitoring Point Details

- (H10) Determinations of the quality of contaminants released to waters to check conformity with the release quality characteristics specified in Schedule C of this development approval must be undertaken at the sampling and in-situ measurement point described as the inlet to the chlorination tank, apart from the determination of either free chlorine residual or microbiological quality, which shall be performed at the inlet of the outfall pipe from the chlorination tank.

Quality Determinations

- (H11) All determinations of the quality of contaminants released to waters must be made in accordance with methods prescribed in the Department of Environment Water Quality Sampling Manual, 2nd Edition, February 1995, or more recent additions or supplements to that document as such become available, or as specifically approved by the administering authority.
- (H12) All determinations of the quality of contaminants released must be performed by a person or body possessing appropriate experience and qualifications to perform the required measurements.
- (H13) Records must be kept of the results of all determinations of the quality of contaminants released to waters for a period of at least five (5) years.

Monitoring Of Volume of Release

- (H14) The daily quantity of contaminants released must be determined or estimated by an appropriate method, for example, a flow meter.
- (H15) Records must be kept of the results of all determinations of the daily quantity of contaminants released to waters for a period of at least five (5) years.

¹ Permit includes licences, approvals, permits, authorisations, certificates, sanctions or equivalent/similar as required by legislation administered by the Environmental Protection Agency and the Queensland Parks and Wildlife Service
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Noise Monitoring

- (H16) For the purposes of investigating any complaint made about noise annoyance and also for checking compliance with condition number F3 in Schedule F, monitoring and recording the noise levels from the environmentally relevant activity must be undertaken for at least the following descriptors, characteristics and conditions:
- (i) $L_{Amax, Adj T}$
 - (ii) $L_{Aeq, T}$ (or $L_{A90, T}$);
 - (iii) $L_{AN, T}$ (where N equals statistical levels of one(1), ten(10), fifty(50), ninety(90) and ninety-nine(99);
 - (iv) $Max L_{pA T}$;
 - (v) $L_{Aeq, T}$;
 - (vi) the level and frequency of occurrence of impulsive or tonal noise;
 - (vii) atmospheric conditions including temperature, relative humidity and wind speed and direction; and
 - (viii) effects due to extraneous factors such as traffic noise.
- (H17) In conjunction with the measurement and recording of the noise, the following parameters and conditions must be recorded:
- (i) location, date and time of recording.
- (H18) Monitoring must also be undertaken to investigate any complaint of noise annoyance upon receipt of a written request from the administering authority to carry out such monitoring.
- (H19) The method of measurement and reporting of noise levels must comply with the Department of Environment Noise Measurement Manual, second edition, March 1995, or more recent additions or supplements to that document as become available.
- (H20) The measurement and reporting of noise levels must be undertaken by a person or body possessing appropriate experience and qualifications to perform the required measurements.
- (H21) Records must be kept of the results of all monitoring of noise levels and other information required to be recorded in conjunction with such monitoring for a period of at least five (5) years.

Exception Reporting

- (H22) The registered operator of this development approval must notify the administering authority in writing of any monitoring result which indicates an exceedance of any development approval limit within twenty eight (28) days of completion of the analysis.
- (H23) The written notification required by condition number H22 above must include:
- (i) the full analysis results, and
 - (ii) details of investigation or corrective actions taken, and
 - (iii) any subsequent analysis.

Monitoring Reporting

- (H24) Any monitoring data compiled, collected or recorded as required by conditions of this development approval shall be supplied to the administering authority on an annual basis. These reports shall cover the following period during the year: 1 January to 31 December.

Each annual Monitoring Report shall be delivered to the administering authority within four (4) weeks of the close of twelve (12) months period.

End of Conditions for Schedule H

RTI DL RELEASE - EHP

Release

¹ Permit includes licences, approvals, permits, authorisations, certificates, sanctions or equivalent/similar as required by legislation administered by the Environmental Protection Agency and the Queensland Parks and Wildlife Service
Environmental Protection Agency
13-519
www.epa.qld.gov.au ABN 87 221 158 786



SCHEDULE I - DEFINITIONS

- (11) For the purposes of this development approval any term not otherwise defined in the Act and any subordinate legislation made pursuant to the Act or in the Definitions Schedule of this development approval has the meaning conferred to that term in its common usage.
- (12) In the event of any inconsistency arising between the meaning of any term provided in the Definitions Schedule of this development approval and any common usage of that term, the meaning conferred in the Definitions Schedule of this development approval prevails.

For the purposes of this development approval the following definitions apply:

- (13) "Act" means the *Environmental Protection Act 1994*.
- (14) "administering authority" means the Department of Environment or its successor.
- (15) "AMTD" means Adopted Middle Thread Distance as per the Queensland Water Resources Commission publication entitled "Atlas of AMTD Maps, January 1984".
- (16) "authorised person" means a person holding office as an authorised person under an appointment under the *Environmental Protection Act 1994* by the chief executive or chief executive officer of a local government.
- (17) "land" in the Land Application Schedule, means land excluding waters and the atmosphere.
- (18) "mg/L" means milligrams per litre.
- (19) "cfu" means colony forming units.
- (110) "dry weather day" refers to a day during which no rainfall is recorded at any rainfall measuring station recognised by the Commonwealth Bureau of Meteorology within the sewered area connected to the sewage treatment plant, or if no such measuring station exists, at the nearest such station to the sewage treatment plant. The term also excludes days during which recorded rainfall over the three preceding days exceeds 100 mm.
- (111) "80th percentile" means that the measured values of the quality characteristic must not be greater than the release limit for any more than one out of five consecutive samples where the time interval between the taking of each consecutive sample is not less than six (6) days.
- (112) "median" means the middle value, where half the data are smaller, and half the data are larger. If the number of samples is even, the median is the arithmetic average of the two middle values.
- (113) "maximum" means that the measured value of the quality characteristic or contaminant must not be greater than the release limit stated.
- (114) "minimum" means that the measured value of the quality characteristic or contaminant must not be less than the release limit stated.
- (115) "range" means that the measured value of the quality characteristic or contaminant must not be greater than the higher release limit stated nor less than the lower release limit stated.
- (116) " $L_{Amax\ adj, T}$ " means the average maximum A-weighted sound pressure level, adjusted for noise character and measured over a time period of not less than 15 minutes, using Fast response.

Release



(I17) "background noise level" means either:

$L_{A90, T}$ being the A-weighted sound pressure level exceeded for ninety percent (90%) of the time period not less than 15 minutes, using Fast response, or

$L_{A90, T}$ being the arithmetic average of the minimum readings measured in the absence of the noise under investigation during a representative time period of not less than 15 minutes, using Fast response.

(I18) " $MaxL_{pA, T}$ " means the maximum A-weighted sound pressure level measured over a time period of not less than 15 minutes, using Fast response.

(I19) "total Nitrogen" means the sum of Organic Nitrogen, Ammonia, Nitrite plus Nitrate, as mg/L of Nitrogen.

(I20) "total Phosphorus" means the sum of the reactive phosphorus, acid-hydrolysable phosphorus and organic phosphorus, as mg/L of Phosphorus. This includes both the inorganic and organic fraction of phosphorus.

(I21) "commercial place" means a place used as an office or for business or commercial purposes.

(I22) "noise sensitive place" means-

- (i) a dwelling, mobile home or caravan park, residential marina or other residential premises; or
- (ii) a motel, hotel or hostel; or
- (iii) a kindergarten, school, university or other educational institution; or
- (iv) a medical centre or hospital; or
- (v) a protected area; or
- (vi) a park or gardens.

(I23) "regulated waste" means non-domestic waste mentioned in Schedule 8 of the Environmental Protection (Interim) Regulation 1995, including but not limited to, for the purpose of this authority, bacterial sludge (septic tank and sewage) and includes-

- (i) for an element - any chemical containing the element; and
- (ii) anything that has contained a regulated waste; and
- (iii) regulated waste that has been treated or immobilised.

End of Conditions for Schedule I

END OF CONDITIONS