Queensland Government

Department of
Environment and Heritage Protection

To: Department of Education and Training and
Employment T/A Bluewater State School
C/- Opus International Consultants
PO Box 1196
MAROOCHYDORE QLD 4558

Email: felix.richter@opus.com.au

Attention: Mr Felix Richter

Your reference: Bluewater State School STP
Our reference: 402074

Application details

I refer to the application that was received by the administering authority on 08-MAY-2013.

Land description: Bluewater State School, Buckby Street and BLUEWATER QLD 4818 Lot 1 Plan EP804241.

Decision

Your application has been approved and your environmental authority (reference EPPR01171913) is attached.

Additional comments or advice

You are advised that if you are not the owner of the land to which the environmental authority relates, you have 10 business days from receipt of this environmental authority to give each owner of the land, written notice that you have been issued this environmental authority.

Should you have any further enquiries, please contact Nina Henney on telephone (07) 4722 5353.

Yours sincerely

Signature	Date
	28-08-13

Chris Wake
Department of Environment and Heritage Protection
Delegate of the administering authority
Environmental Protection Act 1994

Enclosed

Permit - environmental authority (reference EPPR01171913)

Nina Henney
ES - Reg Serv - Northern - TVille
PO Box 5318
TOWNSVILLE QLD 4810
Phone: (07) 4722 5353
Fax: (07) 4722 5351
Email: nina.henney@ehp.qld.gov.au
Website **www.ehp.qld.gov.au**
ABN 46 640 294 485

Permit[1]

Environmental Protection Act 1994

Environmental authority EPPR01171913

This environmental authority is issued by the administering authority under Chapter 5 of the *Environmental Protection Act 1994.*

Permit[1] number: EPPR01171913

Environmental authority takes effect 12 August 2013

The first annual fee is payable within 20 business days of the effective date.

The anniversary date of this environmental authority is the same day each year as the effective date. An annual return and the payment of the annual fee which is currently $1,545.60 will be due each year on this day.

Environmental authority holder(s)

Name	Registered address
Department of Education, Training and Employment T/A Bluewater State School	Level 2, Mary Street BRISBANE QLD 4000

Environmentally relevant activity and location details

Environmentally relevant activity(ies)	Location(s)
63-(1a)(i) Sewage treatment >21 to 100EP - IT or IR	Bluewater State School, Buckby Street and BLUEWATER QLD 4818 - Lot 1 Plan EP804241

Additional information for applicants

Environmentally relevant activities

The description of any environmentally relevant activity (ERA) for which an environmental authority is issued is a restatement of the ERA as defined by legislation at the time the approval is issued. Where there is any inconsistency between that description of an ERA and the conditions stated by an environmental authority as to the scale, intensity or manner of carrying out an ERA, then the conditions prevail to the extent of the inconsistency.

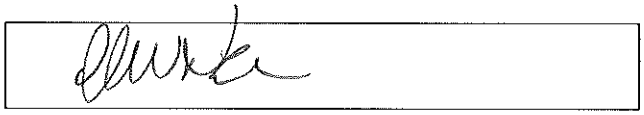
An environmental authority authorises the carrying out of an ERA and does not authorise any environmental harm unless a condition stated by the authority specifically authorises environmental harm.

[1] Permit includes licences, approvals, permits, authorisations, certificates, sanctions or equivalent/similar as required by legislation

A person carrying out an ERA must also be a registered suitable operator under the *Environmental Protection Act 1994* (EP Act).

Contaminated land

It is a requirement of the EP Act that if an owner or occupier of land becomes aware a notifiable activity (as defined in Schedule 3 and Schedule 4) is being carried out on the land, or that the land has been, or is being, contaminated by a hazardous contaminant, the owner or occupier must, within 22 business days after becoming so aware, give written notice to the chief executive.



Signature

28-08-13

Date

Chris Wake
Department of Environment and Heritage Protection
Delegate of the administering authority
Environmental Protection Act 1994

Enquiries:
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Obligations under the *Environmental Protection Act 1994*

In addition to the requirements found in the conditions of this environmental authority, the holder must also meet their obligations under the EP Act, and the regulations made under the EP Act. For example, the holder must comply with the following provisions of the Act:

- general environmental duty (section 319)
- duty to notify environmental harm (section 320-320G)
- offence of causing serious or material environmental harm (sections 437-439)
- offence of causing environmental nuisance (section 440)
- offence of depositing prescribed water contaminants in waters and related matters (section 440ZG)
- offence to place contaminant where environmental harm or nuisance may be caused (section 443)

Location: Bluewater State School, Buckby Street and BLUEWATER QLD 4818

Lot 1 Plan EP804241

Relevant activity/ies:

Environmentally Relevant Activity (ERA) 63 Threshold 1 operating sewage treatment works, other than a no release works, with a total daily design capacoty of - 21 to 100EP - (i) if treated effluent is discharged from the works to an infiltration trench or through an irrigation scheme.

The environmentally relevant activity conducted at the location as described above must be conducted in accordance with the following site specific conditions of approval.

Agency interest: General	
Condition number	**Condition**
	Scope
General 1	This approval authorises the construction and operation of a sewage treatment plant with a maximum daily treatment design capacity of no more than 45 equivalent persons (EP) based on a sewage generation rate of 20 L/person/day.
	Maintenance of Measures, Plant and Equipment
General 2	The operator of an ERA to which this approval relates must: a) install all measures, plant and equipment necessary to ensure compliance with the conditions of this approval; and b) maintain such measures, plant and equipment in a proper and efficient condition; and c) operate such measures, plant and equipment in a proper and efficient manner.
	Records
General 3	The holder of this approval must record, compile, and keep all documents and monitoring results required under this approval for a period of 5 years.

	Monitoring
General 4	A suitably qualified and competent person(s) must conduct all monitoring required by this approval.
	Equipment Calibration
General 5	All instruments, equipment and measuring devices used for measuring or monitoring in accordance with any condition of this approval must be calibrated, and appropriately operated and maintained.
General 6	Signage in accordance with *AS 3500.1:2003 Plumbing and drainage – Water services* must clearly visible and maintained in a legible condition in all areas undergoing effluent irrigation.
	Alarms
General 7	Sewage pumping stations and plant to which this approval relates, must be fitted with an alarm system(s) that, as a minimum, notifies the operator of the following: (a) the failure of essential sewage treatment system infrastructure; (b) electrical faults and power outage; and (c) overflows from plant and pump stations.
	Notification of Incidents / Emergencies
General 8	The registered operator must telephone the administering authority's Pollution Hotline or local office as soon as practicable, but within 24 hours, after becoming aware of any release of **contaminants** or monitoring results not in accordance with the conditions of this approval.
	Information to Follow Notification

General	A written notice detailing the following information must be provided to the administering authority within fourteen (14) days of any advice provided in accordance with condition **(G8)**: (a) the name of the operator, including their approval / registration number; (b) the name and telephone number of a designated contact person; (c) quantity and substance(s) released; (d) vehicle and registration details; (e) person(s) involved (driver and any others); (f) the location and time of the release; (g) the suspected cause of the release; (h) a description of the effects of the release; (i) the results of any sampling performed in relation to the release, (j) actions taken to mitigate any **environmental harm** caused by the release; and (k) proposed actions to prevent a recurrence of the release.

	Annual Monitoring Report
General 10	An annual monitoring report must be prepared each year and presented to the administering Authority. This report shall include but not be limited to: (a) a summary of the previous twelve (12) months monitoring results obtained under any monitoring programs required under this approval and, in graphical form showing relevant limits, a comparison of the previous twelve (12) months monitoring results to both this approvals limits and to relevant prior results; (b) an evaluation/explanation of the data from any monitoring programs; (c) a summary of any record of quantities of releases required to be kept under this approval; (d) a summary of the record of equipment failures or events recorded for any **site** under this approval; and (e) an outline of actions taken or proposed to **minimise** the environmental risk from any deficiency by the monitoring or recording programs.
	Complaint Response
General 11	All complaints received must be recorded, including investigations undertaken, conclusions formed and action(s) taken. This information must be made available to the administering authority on request.

Agency interest: Air	
Condition number	**Condition**
	Nuisance
Air 1	Noxious or offensive odours or any other noxious or offensive airborne **contaminants** resulting from the **activity** must not cause a nuisance at any nuisance sensitive or commercial place.
Air 2	When requested by the administering authority, monitoring must be undertaken to investigate any complaint of environmental nuisance caused by a release to the atmosphere from a release point at the **site,** and the results thereof notified to the administering authority within 14 days following completion of monitoring.
Agency interest: Water	
Condition number	**Condition**
	Release to Waters
Water 1	An ERA to which this approval relates must not release **contaminants** must not be released from the **site** to any **waters** or bed and banks of any **waters.**
Water 2	An ERA to which this approval relates must not release **contaminants** at a place, and in a way, so that the contaminant could reasonably be expected to wash, or otherwise move into **waters**, a roadside gutter or stormwater drainage.
	Stormwater Management
Water 3	Infrastructure associated with ERA activities at the approved place must incorporate appropriate stormwater diversion drains and channels to prevent stormwater from entering contaminated, or potentially contaminated, areas.
Agency interest: Noise	
Condition number	**Condition**
Noise 1	**Nuisance** Noise resulting from the **activity** must not cause a nuisance at any nuisance sensitive or commercial place.

Agency interest: Land	
Condition number	**Condition**
Land 1	The only **contaminants** permitted to be released to **land** are treated sewage effluent to the areas shown and described as "Approved Irrigation Area 1 and 2" in Schedule 1 – Approved Plans of the approval.
Land 2	Treated sewage effluent released to **land** must be in compliance with the limits and monitoring frequency outlined in Schedule 2 – Table 1 – Contaminant release limits to **land.**
	Release limits to Land
Land 3	The only **contaminants** permitted to be released from the treatment plant to **land** are treated sewage effluent in compliance with the limits stated in Schedule 2 - Table 1: Contaminant release limits to **land.**
Land 4	When irrigating to **land** monitoring must be undertaken not less frequently than specified in Table 1: Contaminant release limits to **land.** All analyses of the quality of **contaminants** released must be: (a) made in accordance with methods prescribed in the latest version of the administering authority's *Water Quality Sampling Manual*; and (b) carried out on samples that are representative of the effluent discharge.
	Irrigation area requirements.
Land 5	A minimum **land** area of 0.22 hectares, excluding any necessary buffer zones, must be utilised for the irrigation of treated sewage effluent. The maximum daily treated sewage effluent volume allocated for irrigation must not exceed 3 cubic metres.
Land 6	Irrigation using treated effluent must be carried out in a manner such that: (a) there is no surface ponding of effluent; (b) there is no runoff of effluent off-**site;** (c) percolation of effluent beyond the plant root zone is minimised; (d) the capacity of the soils to assimilate effluent is not exceeded; and (e) the quality of ground water is not adversely affected.
Land 7	When weather conditions or soil conditions preclude the release of wastewater to **land,** wastewater must be directed to wet weather storage or be lawfully removed from the **site.**
Land 8	A minimum capacity of 45KL for wet weather storage must be available to store treated effluent when conditions prevent irrigation.
Land 9	**Land** for treated effluent disposal must be separated by a minimum of 50 (fifty) meters from any groundwater bore.

	Monitoring of Soils
Land 10	The registered operator of the ERA to which this approval relates, must monitor and keep records of soil characteristics which include top-soil and sub-soil samples taken from a representative location in the irrigation area and at the frequency specified in Schedule 2 - Table 2: Contaminant release limits to **land.**
Land 11	Any significant variation in soil monitoring data must be reported to the administering authority in accordance with of this permit.
	Groundwater
Land 13	**Contaminants** must not be released to groundwater.

Agency interest: Waste	
Condition number	**Condition**
	Waste General.
Waste 1	Waste generated in the carrying out of an ERA to which this approval relates must be stored, handled and transferred in a proper and efficient manner so as to prevent spillage or contamination of **land** or **waters.**
Waste 2	All regulated waste removed from the **site** must be removed by a person who holds a current approval to transport such waste under the provisions of the *Environmental Protection Act 1994.*
Waste 3	Waste removed from the **site** for treatment and /or disposal must be transported to a facility lawfully able to accept such a waste.

Definitions

Key terms and/or phrases used in this document are defined in this section and **bolded** throughout this document. Applicants should note that where a term is not defined, the definition in the *Environmental Protection Act 1994*, its regulations or environmental protection policies must be used. If a word remains undefined it has its ordinary meaning.

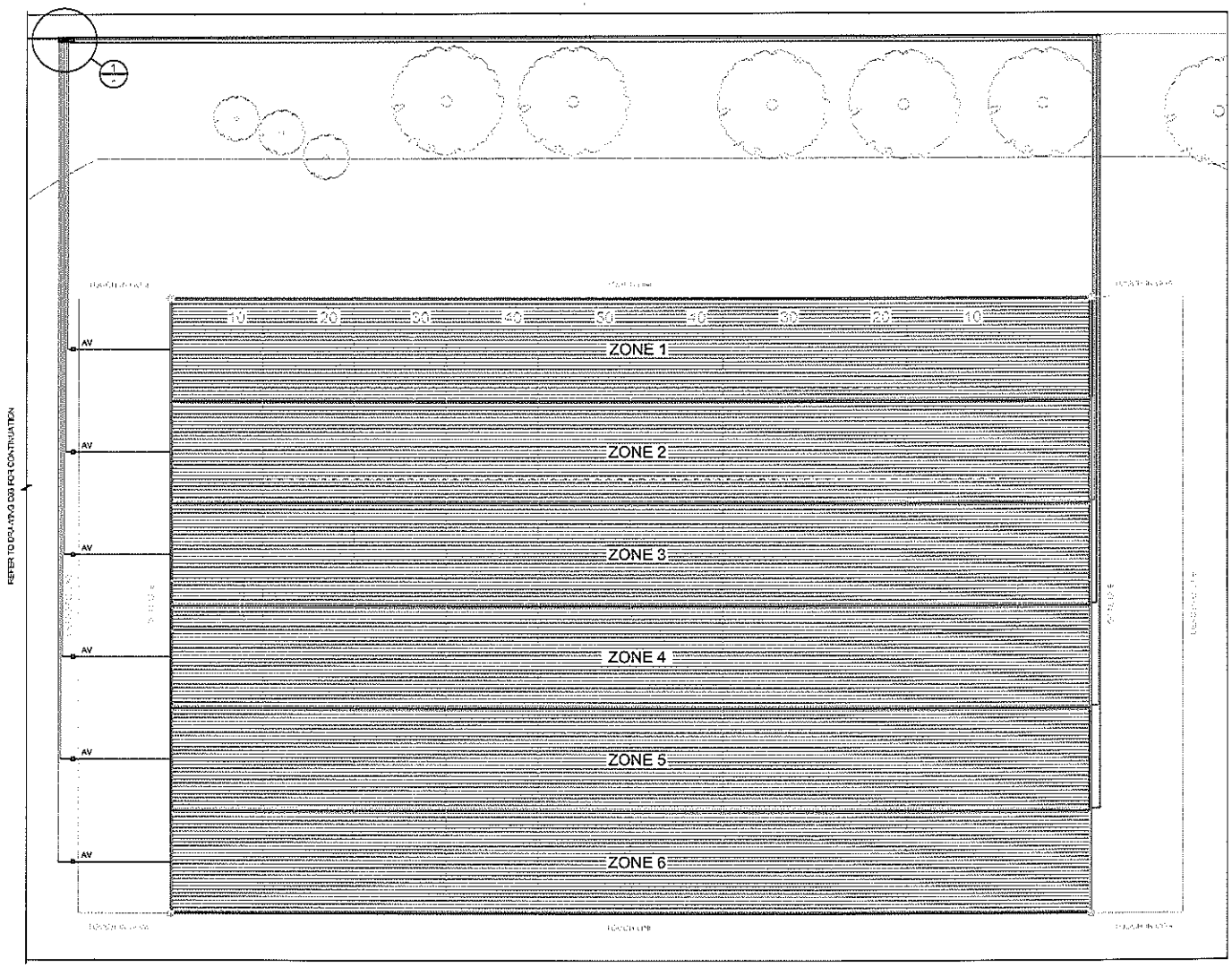
Term	Definition
Activity	the environmentally relevant activity to which this environmental authority relates. An activity may be undertaken on the whole or a part of a site.
Aqueous Waste	any aqueous waste including process water, water that has otherwise been used in the carrying out of the activity or sewage, whether or not the waste has been treated, but excluding stormwater.
Category A or B environmentally sensitive Area	as defined in Schedule 12, Part 1 of the Environmental Protection Regulation 2008
Chemical	as defined in Schedule 12, Part 2 of the Environmental Protection Regulation 2008
Contaminant(s)	as defined in Section 11 of the *Environmental Protection Act 1994*
Environmental harm	as defined in Section 14 of the *Environmental Protection Act 1994*
Environmental nuisance	as defined in Section 15 of the Environmental Protection Act 1994
Land	land excluding waters and the atmosphere. Land includes land on the authorised place.
Minimise	minimise by taking all reasonable and practical measures to minimise the adverse effect having regard to the following matters: (a) the nature of the harm or potential harm (b) the sensitivity of the receiving environment (c) the current state of technical knowledge for the activity (d) the likelihood of successful application of different measures that might be taken to minimise the adverse effects (e) the financial implications of the different measures as they would relate to the type of activity (f) if the adverse effect is caused by the location of the activity being carrying out, whether it is feasible to carry out the activity at another location.
Nuisance sensitive place	nuisance sensitive place includes: • within or outside of a dwelling, residential allotment, mobile home or caravan park, • residential marina or other residential premises; or • within or outside of a motel, hotel or hostel; or • within or outside of a kindergarten, school, university or other educational institution; or • within or outside of a medical centre or hospital; or • within a protected area under the *Nature Conservation*

	Act 1992, with a marine park under the *Marine Parks Act 1992* or a World Heritage Area; or • within a public thoroughfare, park or gardens; or • within or outside of a place used as a workplace, an office or for business or • commercial purposes and includes a place within the curtilage of such a place reasonably used by persons at that place; or • for noise, a place defined as a sensitive receptor for the purposes of the Environmental Protection (Noise) Policy 2008.
Site	a location as defined by the lot and plans, whether partial of whole, to which this environmental authority relates.
Waters	all or any part of a creek, river, stream, lake, lagoon, swamp, wetland, spring, unconfined surface water, unconfined water in natural or artificial watercourses, bed and bank of any waters, non-tidal or tidal waters (including the sea), stormwater channel, stormwater drain, roadside gutter, stormwater run-off, and underground water.
Watercourse	as defined in Section 8, Schedule 12 of the Environmental Protection Regulation 2008

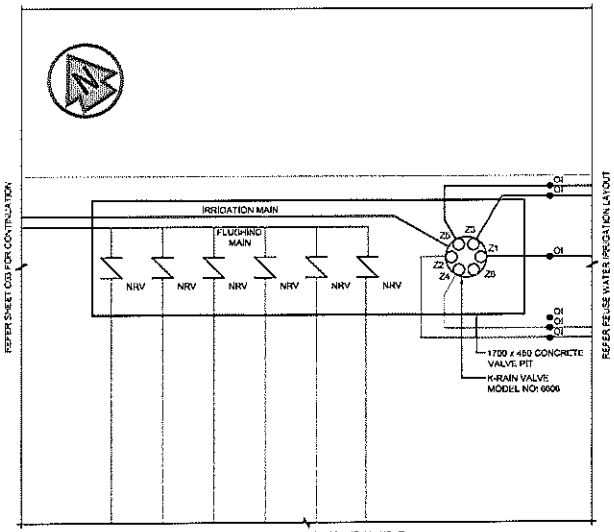
Schedules_Schedule 1—Approved plans

Schedule 2—Monitoring and Release limits

Schedule 1 – Approved Irrigation area 1, Waste Water System Bluewater State School Buckby Street Bluewater QLD 4818, Drawing No. N-N2034.00



REUSE WATER
IRRIGATION LAYOUT
SCALE: 1:250



DETAIL 1
SCALE: 1:10

LEGEND:

- NRV NON RETURN VALVE
- OI OPERATION INDICATOR
- AV AIR VALVE HOUSED IN OI VALVE CHAMBER
- Z0 DISTRIBUTION MAINS
- DN63 IRRIGATION MAIN PE100 PN8 (LILAC)
- DN63 FLUSHING MAIN PE 100 PN8 (LILAC)
- DN10 LATERAL DRIP TUBE TORO ROOTGUARD (LILAC)

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Maroochydore QLD 4558
Australia

Drawn	Designed	Approved	Plot Date
NRW	CKR		APRIL 2013

Project No.	Scale
N-N2034.00	AS SHOWN

WASTE WATER SYSTEM
BLUEWATER STATE SCHOOL
BUCKBY STREET BLUEWATER QLD 4818

Sheet
REUSE WATER IRRIGATION LAYOUT

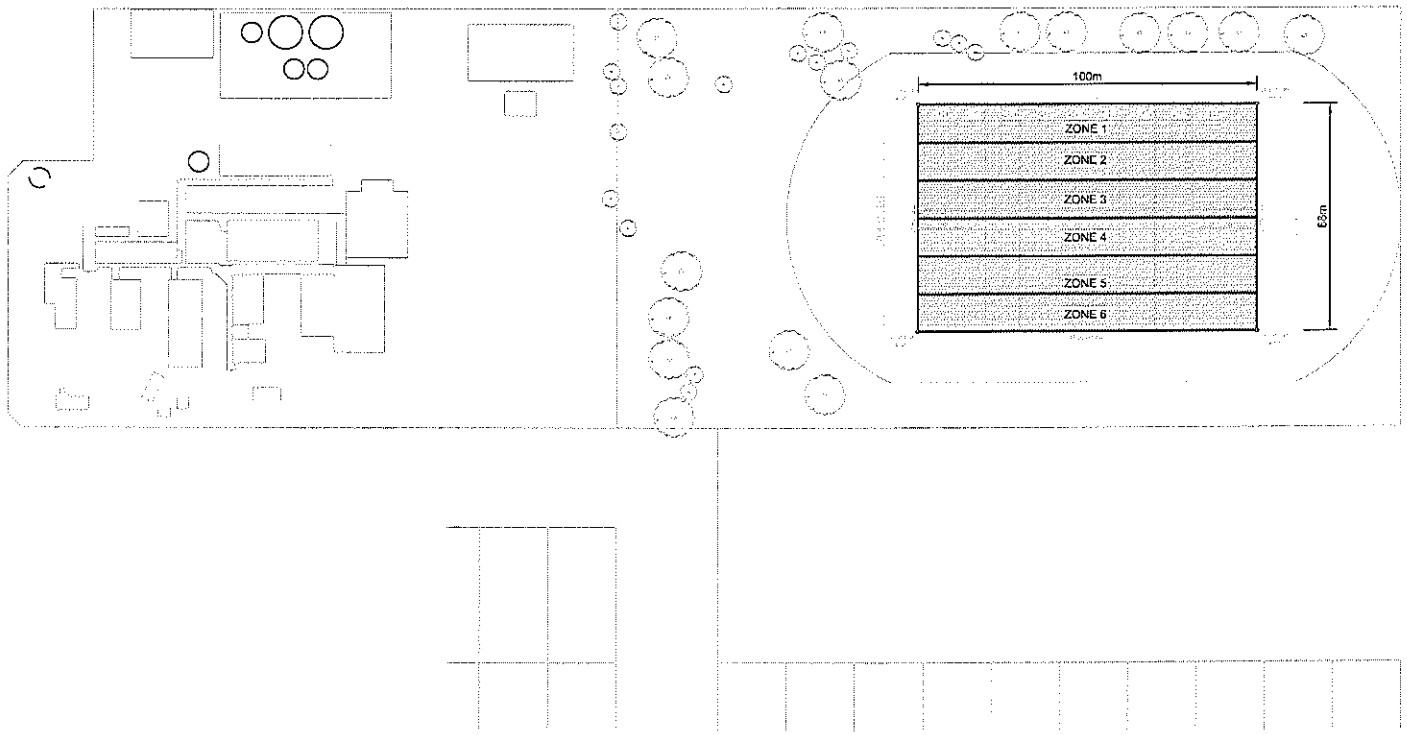
Drawing No.	Sheet No.	Revision
N-N2034.00	C02	-

1:250@ A1
1:500@ A3
0 4 8 12 16 20 24 m

1:100@ A1
1:200@ A3
0 100 200 300 400 500 600 700 800 900 1000 mm

Original Sheet Size A1 [841x594] Plot Date — Path O:\PROJ\C03 2012\N-N2034 - DETC - Alligator Creek Sewerage\N-N2034.00 - Alligator Ck, Calen & Bluewater BB - WW (by)\Bwtr CM\ Bluewater DD\N-N2034.00 C02.dwg C02

Schedule 1 – Approved Irrigation area 2, Waste Water System Bluewater State School, Buckby Street Bluewater QLD 4818, Drawing No. N-N2034.00



IRRIGATION ZONES
SCALE 1:750

1:750 @ A1
1:1500 @ A3
0 10 20 30 40 50 60 75 m

Original Sheet Size A1 (841x594) Plot Date — Path: G:\PROJECTS\2012\NA\2034 - DTTI - Aligator Creek Sewerage\N-N2034.00 - Aligator Ck, Calen & Bluewater SS - WW (I)\Deliver Cad (Autocad SS)\N-N2034.00 C01.dwg C01

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Drawn	Designed	Approved	Date
MAW	KXR		APRIL 2015

Project No.	Scale
N-N2034.00	1:750 @ A1

Project
WASTE WATER SYSTEM
BLUEWATER STATE SCHOOL
BUCKBY STREET BLUEWATER QLD 4818

Title
IRRIGATION ZONES

Drawing No.	Sheet No.	Revision
N-N2034.00	C01	-

Schedule 2—Monitoring and Release limits

Schedule 2 - Table 1: Contaminant release limits to land

Quality Characteristics	Limit Type	Release Limit	Monitoring Frequency
5 Day Biological Oxygen Demand (BOD_5)	maximum	20mg/L	Monthly
Total Nitrogen	maximum	60mg/L	
Total Phosphorous	maximum	20mg/L	
pH	within	6.5-8.8.5	
E.Coli	maximum	<10 cfu/100ml	

Schedule 2 - Table 2: Monitoring parameters and frequency for soils within irrigation areas

Parameter	Units	Frequency
Electrical conductivity	µS/cm	On commencement, and biannually thereafter
Total Nitrogen	mg/kg	
Total Phosphorous	mg/kg	
Sodium Absorption Ratio (SAR)	N/A	

END OF PERMIT