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8	Surface water quality monitoring		Surface water monitoring point (S8) at Severn River causeway on the Haul Road (first causeway) labelled as EPA Point 8 on map titled Environmental Monitoring Points -Location of Surface Water MP dated 1st May 2007. See Fig 1 - 250832A1/10
10	Effluent quality and volume monitoring Wet weather discharge Discharge quality monitoring Discharge to utilisation area	Effluent quality and volume monitoring Wet weather discharge Discharge quality monitoring Discharge to utilisation area	Terminal pond and spillway servicing Pivot 3A and 3B including pump labelled as EPA Point 10 on map titled Env MPs-Location of Effluent MP dated 1st May 2007. see Fig 2 250832A1/10
11	Effluent quality and volume monitoring Wet weather discharge Discharge quality monitoring Discharge to utilisation area	Effluent quality and volume monitoring Wet weather discharge Discharge quality monitoring Discharge to utilisation area	Final effluent holding pond (on eastern side of the feedlot, known as E2) including spillway and irrigation pumps labelled as EPA Point 11 on map titled Env MPs-Location of Effluent MP dated 1st May 2007. see Fig 2. 250832A1/10
13	Wet weather discharge Discharge quality monitoring	Wet weather discharge Discharge quality monitoring	Spillway for effluent holding pond known as W2 (on western side of feedlot) labelled as EPA Point 13 on map titled Env MPs-Location of Effluent MP dated 1st May 2007. see Fig 2 250832A1/10
14	Effluent quality and volume monitoring Wet weather discharge Discharge quality monitoring Discharge to utilisation area	Effluent quality and volume monitoring Wet weather discharge Discharge quality monitoring Discharge to utilisation area	Terminal pond and spillway servicing Pivot 1 and located in the paddock Bottom Swamp including pump labelled as EPA Point 14 on map titled Env MPs-Location of Effluent MP dated 1st May 2007. see Fig 2 250832A1/10
20	Effluent quality and volume monitoring Wet weather discharge Discharge quality monitoring Discharge to utilisation area	Effluent quality and volume monitoring Wet weather discharge Discharge quality monitoring Discharge to utilisation area	Effluent holding pond (on western side of feedlot, known as W4) including spillway and irrigation pump labelled as EPA Point 20 on map titled Env MPs-Location of Effluent MP dated 1st May 2007. see Fig 2 250832A1/10
22	Effluent quality and volume monitoring Wet weather discharge Discharge quality monitoring Discharge to utilisation area	Effluent quality and volume monitoring Wet weather discharge Discharge quality monitoring Discharge to utilisation area	Terminal pond and spillway servicing Rye East and Rye West known as W5 including pump labelled as EPA Point 22 on map titled Env MPs-Location of Effluent MP dated 1st May 2007. see Fig 2 250832A1/10

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24	Manure quality monitoring Mass monitoring	Manure stockpile and composting area containing screened and unscreened manure and labelled as EPA Point 24 on map titled Env MPs-Location of Effluent MP dated 1st May 2007. see Fig 2 250832A1/10
26	Discharge quality monitoring	Dam located in the bottom corner of "Washpool Road" (13) paddock labelled as EPA Point 26 on map titled Env MPs-Location of Effluent MP dated 1st May 2007. see Fig 2 250832A1/10
27	Soil quality monitoring Mass monitoring	Effluent utilisation area known as Pivot 1 labelled as EPA Point 27 on map titled "Rangers valley cattle station Site Plan" dated 30.07.03.
28	Soil quality monitoring Mass monitoring	Effluent utilisation area known as Pivot 3A labelled as EPA Point 28 on map titled "Rangers Valley Cattle Station Site Plan" dated 30.07.03.
29	Soil quality monitoring Mass monitoring	Effluent utilisation area known as Pivot 3B labelled as EPA Point 29 on map titled "Rangers Valley Cattle Station Site Plan" dated 30.07.03.
30	Soil quality monitoring Mass monitoring	Effluent utilisation area known as Rye East labelled as EPA Point 30 on map titled "Rangers Valley Cattle Station Site Plan" dated 30.07.03.
31	Soil quality monitoring Mass monitoring	Effluent utilisation area known as Rye West labelled as EPA Point 31 on map titled "Rangers Valley Cattle Station Site Plan" dated 30.07.03.
34	Groundwater quality monitoring	Groundwater monitoring bore (34 located in corner paddock) labelled as EPA Point 34 on map titled Env MP-Location of piezometer MP dated 1st May 2007. see Fig 3
35	Groundwater quality monitoring	Groundwater monitoring bore (35 located in the laneway north of Rye East paddock) labelled as EPA Point 35 on map titled Env MP-Location of piezometer MP dated 1st May 2007. see Fig 3
36	Groundwater quality monitoring	Groundwater monitoring bore (36 located between ponds W3 and W4) labelled as EPA Point 36 on map titled Env MP-Location of piezometer MP dated 1st May 2007. see Fig 3

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38	Groundwater quality monitoring	Groundwater monitoring bore (38 located on eastern point of effluent pond E2) labelled as EPA Point 38 on map titled Env MP-Location of piezometer MP dated 1st May 2007. see Fig 3
40	Groundwater quality monitoring	Groundwater monitoring bore (40 located on adjoining fence line between Pivot 3A/3B) on map titled Env MP-Location of piezometer MP dated 1st May 2007. see Fig 3
41	Groundwater quality monitoring	Groundwater monitoring bore (41 below EPA point 14 in paddock Bottom Swamp) labelled as EPA Point 41 on map titled Env MP-Location of piezometer MP dated 1st May 2007. see Fig 3
42	Groundwater quality monitoring	Groundwater monitoring bore (42 located in laneway between Pivot 1 and effluent pond E2) labelled as EPA Point 42 on map titled Env MP-Location of piezometer MP dated 1st May 2007. see Fig 3
43	Soil quality monitoring Mass monitoring	Utilisation area identified as the 'solid utilisation areas as identified on drawing No 19045-05 as quoted in the consent conditions' on map titled "Map 1 - Rangers Valley Cattle Station" submitted with a letter to the EPA on 25 October 2006.
44	Groundwater quality monitoring	Groundwater monitoring bore (44 located in the north eastern grassed area of the paddock known as Old 2) labelled as EPA point 44 on map titled Env MP-Location of Piezometer MP dated 1st May 2007. see Fig 3. 250832A1/10
45	Groundwater quality monitoring	Groundwater monitoring bore (45 located on eastern boundary of the paddock known as "Donnelly's Elect" labelled as EPA point 45 on map Titled Env MP-location of Piezometer MP dated 1st May 2007. see Fig 3
46	Groundwater quality monitoring	Groundwater monitoring bore (46 located in paddock known as "Oaks Road") labelled as EPA point 46 on map Titled Env MP-location of Piezometer MP dated 1st May 2007. see Fig 3

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47	Groundwater quality monitoring		Groundwater monitoring bore (47 located in paddock known as "Horse" labelled as EPA point 47 on map Titled Env MP-location of Piezometer MP dated 1st May 2007. see Fig 3
48	Effluent quality and volume monitoring wet weather discharge. Discharge quality monitoring. Discharge to utilisation area	Effluent quality and volume monitoring wet weather discharge. Discharge quality monitoring. Discharge to utilisation area	Terminal Pond One and spillway servicing Pivot 2c located in the paddock known as Spillway including pump labelled as EPA Point 48 on map Titled Environmental Monitoring Points-location of Effluent MP dated 1st May 2007. see Fig 2
49	Effluent quality and volume monitoring. Wet weather discharge. Discharge quality monitoring. Discharge to utilisation area.	Effluent quality and volume monitoring. Wet weather discharge. Discharge quality monitoring. Discharge to utilisation area.	Terminal Pond Two and spillway servicing Pivot 2B and located in paddock known as Pivot 2B including pump labelled as EPA Point 49 on map Titled Env MP-location of Effluent MP dated 1st May 2007. see Fig 2
50	Effluent quality and volume monitoring wet weather discharge. Discharge quality monitoring. Discharge to utilisation area	Effluent quality and volume monitoring wet weather discharge. Discharge quality monitoring. Discharge to utilisation area	Terminal Pond 3 and spillway servicing Pivot 2B and 2C located in the paddock known as "wally's" including pump labelled as EPA Point 50 on map Titled Env MP-location of Effluent MP dated 1st May 2007. Fig 2
51	Soil quality monitoring. Mass monitoring		Effluent utilisation area known as Pivot 2B labelled as EPA Point 51 on map titled "Rangers Valley Cattle Station" Site Plan date 30.07.03
52	Soil quality monitoring. Mass monitoring		Effluent utilisation known as Pivot 2C labelled as EPA Point 52 on map titled "Rangers Valley Cattle Station Site Plan date 30.07.03
53	Groundwater Quality Monitoring		Groundwater monitoring bore (53 located west of Terminal Pond 1 in the paddock known as spillway) labelled as EPA point 53 on map Titled Env MP-location of Piezometer MP dated 1st May 2007. see Fig 3
54	Groundwater Quality Monitoring		Groundwater monitoring bore (54 located north of Terminal Pond Two in the paddock known as Pivot 2b) labelled as EPA point 54 on map Titled Env MP-location of Piezometer MP dated 1st May 2007. see Fig 3

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55	Groundwater Quality Monitoring	Groundwater monitoring bore (55 located south of Terminal Pond Three in the paddock known as Wallys) labelled as EPA point 55 on map Titled Env MP-location of Piezometer MP dated 1st May 2007. see Fig 3
56	Groundwater Quality Monitoring	Groundwater monitoring bore (56 located south of the northern holding pond N1 in the paddock known as Irrigation 1) labelled as EPA point 56 on map titled Env MP dated 1st May 2007. see Fig 3. 250832A1/10
57	Effluent Quality and Volume monitoring. Discharge to utilisation area.	Effluent holding pond (known as N1) irrigation pump labelled as EPA point 57 on map titled Env MP- Location of Effluent MP dated 1st May 2007. see Fig 2. 250832A1/10

P1.3 Weather monitoring

The following point(s) in the table are identified in this licence for the purpose of the monitoring of weather parameters at the point.

EPA identification number	Type of Monitoring Point	Description of Location
W1	Weather analysis	2 metre weather monitoring station located near the centre of the fed lot pens, and near row of only three pens numbered 95,96 and 97 at 29o-30'-24"S and 151o-44'18"E

3 Limit Conditions

L1 Pollution of waters

L1.1 Except as may be expressly provided in any other condition of this licence, the licensee must comply with section 120 of the Protection of the Environment Operations Act 1997.

L2 Volume and mass limits

L2.1 For the points identified below, no discharge to waters is permitted unless the specified volume of runoff is exceeded.

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Point	Specified volume of runoff
11, 13	The runoff volume from the controlled drainage area draining to the effluent holding pond from a 1:20 year, 24 hour storm event, using volumetric runoff coefficients of 0.8 for the feedlot pens, roadways and other hard stand areas and 0.4 for grassed areas within the controlled drainage area;
14	The runoff volume from 12mm runoff generated from the drainage catchment for each point.

L2.2 For the purposes of this licence:

- (a) Australian Rainfall and Runoff Data and rainfall data from the Australian Bureau of Meteorology for the premises is to be used to calculate the volume of runoff from a 1 in 20 year, 24 hour storm event.
- (b) The *controlled drainage area* for EPA Point 11 consists of the *Eastern Catchment* defined on map titled "Rangers Valley Cattle Station Controlled Drainage Areas" dated 21.07.03. The *controlled drainage area* for EPA Point 13 consists of the *Western Catchment* defined on map titled "Rangers Valley Cattle Station Controlled Drainage Areas" dated 21.07.03; and
- (c) The *drainage catchment* consists of the catchment areas identified in figure "Tailwater Dams – Catchment Plan & Details, Nov 2005" provided with the licence variation application dated 10 January 2006. In particular

Point 14 – 75 Ha catchment of tailwater dam labelled TW Dam 1

L3 Waste

- L3.1 The licensee must not cause, permit or allow any waste generated outside the premises to be received at the premises for storage, treatment, processing, reprocessing or disposal or any waste generated at the premises to be disposed of at the premises, except as expressly permitted by the licence.
- L3.2 This condition only applies to the storage, treatment, processing, reprocessing or disposal of waste at the premises if those activities require an environment protection licence.

L4 Noise limits

- L4.1 The continuous noise ($L_{Aeq\ 15\ min}$) emitted from the feedlot and associated facilities, when measured within 10 metres of any residence, outside of the property on which the project is constructed, must not exceed 45 dB(A) between the hours of 7.00am and 7.00pm, must not exceed 40dB(A) between the hours of 7.00pm and 10.00pm, and must not exceed 35dB(A) between the hours of 10.00pm and midnight and midnight and 7.00am on any day.
- L4.2 Trucks must not enter or leave the premises between the hours of 10.00pm and midnight, and midnight and 7.00am on any day unless such truck movements are necessitated by the welfare of any animals on such trucks or circumstances beyond reasonable control of the licensee.
- L4.3 The hours of operation specified in condition L4.2 may be varied with written consent if the EPA is

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satisfied that the amenity of the residents in the locality will not be adversely affected.

L5 Potentially offensive odour

L5.1 No condition of this licence identifies a potentially offensive odour for the purposes of section 129 of the Protection of the Environment Operations Act 1997.

Note: Section 129 of the Protection of the Environment Operations Act 1997, provides that the licensee must not cause or permit the emission of any offensive odour from the premises but provides a defence if the emission is identified in the relevant environment protection licence as a potentially offensive odour and the odour was emitted in accordance with the conditions of a licence directed at minimising odour.

L6 Other limit conditions

L6.1 The total number of cattle accommodated within the feedlot pens on the premises, at any one time, must not exceed 40 000.

L6.2 The total amount of material extracted from the quarry on the premises must not exceed 100,000 tonnes per year.

L6.3 The total amount of material stored at the quarry on the premises must not exceed 100,000 tonnes at any time.

L6.4 The total amount of material crushed, ground or separated at the quarry on the premises must not exceed 125,000 tonnes per year.

4 Operating Conditions

O1 Activities must be carried out in a competent manner

O1.1 Licensed activities must be carried out in a competent manner.

This includes:

- a) the processing, handling, movement and storage of materials and substances used to carry out the activity; and
- b) the treatment, storage, processing, reprocessing, transport and disposal of waste generated by the activity.

O2 Maintenance of plant and equipment

O2.1 All plant and equipment installed at the premises or used in connection with the licensed activity:

- a) must be maintained in a proper and efficient condition; and
- b) must be operated in a proper and efficient manner.

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O3 Dust

- O3.1 The premises must be maintained in a condition which minimises or prevents the emission of dust from the premises.

O4 Effluent application to land

- O4.1 Effluent application must not occur in a manner that causes surface runoff.
- O4.2 Spray from effluent application must not drift beyond the boundary of the premises.
- O4.3 Livestock access to any effluent application area must be denied during irrigation and until the applied effluent has dried.
- O4.4 The licensee must retain the utilisation area.
- O4.5 At least 14 days prior to a utilisation area being rendered unavailable for use, the EPA must be advised in writing of this intention.
- O4.6 The quantity of effluent/solids applied to the utilisation area must not exceed the capacity of the area to effectively utilise the effluent/solids.
- For the purposes of this condition, 'effectively utilise' includes the use of the effluent/solids for pasture or crop production, as well as the ability of the soil to absorb the nutrient, salt, hydraulic load and organic material.
- O4.7 Irrigation of effluent must not be applied within,
(a) 100 metres of any watercourse or
(b) 50 metres of any public road.

O5 Processes and management

- O5.1 The holding ponds must be maintained to ensure that sedimentation does not reduce their capacity by more than 20% of the design capacity.
- O5.2 The feedlot pen surface must be maintained to prevent infiltration.
- O5.3 Solids must be stored on an impermeable pad within the controlled drainage area.

O6 Waste management

- O6.1 If solids are removed from the premises, the licensee must record:
a) the date of removing the solids;
b) the estimated weight of the solids removed; and

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- c) the identity of the person removing the solids.

5 Monitoring and Recording Conditions

M1 Monitoring records

M1.1 The results of any monitoring required to be conducted by this licence or a load calculation protocol must be recorded and retained as set out in this condition.

M1.2 All records required to be kept by this licence must be:

- a) in a legible form, or in a form that can readily be reduced to a legible form;
- b) kept for at least 4 years after the monitoring or event to which they relate took place; and
- c) produced in a legible form to any authorised officer of the EPA who asks to see them.

M1.3 The following records must be kept in respect of any samples required to be collected for the purposes of this licence:

- a) the date(s) on which the sample was taken;
- b) the time(s) at which the sample was collected;
- c) the point at which the sample was taken; and
- d) the name of the person who collected the sample.

M2 Requirement to monitor concentration of pollutants discharged

M2.1 For each monitoring/discharge point or utilisation area specified below (by a point number), the licensee must monitor (by sampling and obtaining results by analysis) the concentration of each pollutant specified in Column 1. The licensee must use the sampling method, units of measure, and sample at the frequency, specified opposite in the other columns:

M2.2 Water and/ or Land Monitoring Requirements

POINT 2,3,4,5,6,7,8

Pollutant	Units of measure	Frequency	Sampling Method
Calcium	milligrams per litre	Special Frequency 1	Representative sample
Chloride	milligrams per litre	Special Frequency 1	Representative sample
Conductivity	microsiemens per centimetre	Special Frequency 1	Representative sample
Magnesium	milligrams per litre	Special Frequency 1	Representative sample
Nitrate	milligrams per litre	Special Frequency 1	Representative sample
Nitrogen (ammonia)	milligrams per litre	Special Frequency 1	Representative sample
pH	pH	Special Frequency 1	Representative sample
Phosphorus (total)	milligrams per litre	Special Frequency 1	Representative sample
Potassium	milligrams per litre	Special Frequency 1	Representative sample

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Reactive Phosphorus	milligrams per litre	Special Frequency 1	Representative sample
Sodium	milligrams per litre	Special Frequency 1	Representative sample
Sodium Adsorption Ratio	sodium adsorption ratio	Special Frequency 1	Representative sample
Total Kjeldahl Nitrogen	milligrams per litre	Special Frequency 1	Representative sample
Total suspended solids	milligrams per litre	Special Frequency 1	Representative sample

POINT 10,14,22,48,49,50

Pollutant	Units of measure	Frequency	Sampling Method
Calcium	milligrams per litre	Each overflow event	Representative sample
Chloride	milligrams per litre	Each overflow event	Representative sample
Conductivity	microsiemens per centimetre	Each overflow event	Representative sample
Magnesium	milligrams per litre	Each overflow event	Representative sample
Nitrate	milligrams per litre	Each overflow event	Representative sample
Nitrogen (ammonia)	milligrams per litre	Each overflow event	Representative sample
pH	pH	Each overflow event	Representative sample
Phosphorus (total)	milligrams per litre	Each overflow event	Representative sample
Potassium	milligrams per litre	Each overflow event	Representative sample
Reactive Phosphorus	milligrams per litre	Each overflow event	Representative sample
Sodium	milligrams per litre	Each overflow event	Representative sample
Sodium Adsorption Ratio	sodium adsorption ratio	Each overflow event	Representative sample
Total Kjeldahl Nitrogen	milligrams per litre	Each overflow event	Representative sample
Total suspended solids	milligrams per litre	Each overflow event	Representative sample

POINT 11,20

Pollutant	Units of measure	Frequency	Sampling Method
Calcium	milligrams per litre	Quarterly	Representative sample
Chloride	milligrams per litre	Quarterly	Representative sample
Conductivity	microsiemens per centimetre	Special Frequency 4	Representative sample
Magnesium	milligrams per litre	Quarterly	Representative sample
Nitrate	milligrams per litre	Special Frequency 4	Representative sample
Nitrogen (ammonia)	milligrams per litre	Special Frequency 4	Representative sample
pH	pH	Special Frequency 4	Representative sample
Phosphorus (total)	milligrams per litre	Special Frequency 4	Representative sample
Potassium	milligrams per litre	Quarterly	Representative sample
Reactive Phosphorus	milligrams per litre	Special Frequency 4	Representative sample
Sodium	milligrams per litre	Quarterly	Representative sample

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Sodium Adsorption Ratio	sodium adsorption ratio	Quarterly	Representative sample
Total Kjeldahl Nitrogen	milligrams per litre	Quarterly	Representative sample
Total suspended solids	milligrams per litre	Each overflow event	Representative sample

POINT 13

Pollutant	Units of measure	Frequency	Sampling Method
Conductivity	microsiemens per centimetre	Each overflow event	Representative sample
Nitrate	milligrams per litre	Each overflow event	Representative sample
Nitrogen (ammonia)	milligrams per litre	Each overflow event	Representative sample
Nitrogen (total)	milligrams per litre	Each overflow event	Representative sample
pH	pH	Each overflow event	Representative sample
Phosphorus (total)	milligrams per litre	Each overflow event	Representative sample
Reactive Phosphorus	milligrams per litre	Each overflow event	Representative sample
Total suspended solids	milligrams per litre	Each overflow event	Representative sample

POINT 24

Pollutant	Units of measure	Frequency	Sampling Method
Calcium	milligrams per kilogram	Every 6 months	Representative sample
Chloride	milligrams per kilogram	Every 6 months	Representative sample
Conductivity	microsiemens per centimetre	Every 6 months	Representative sample
Magnesium	milligrams per kilogram	Every 6 months	Representative sample
Moisture content	percent	Every 6 months	Representative sample
Nitrate	milligrams per kilogram	Every 6 months	Representative sample
Nitrogen (total)	milligrams per kilogram	Every 6 months	Representative sample
Organic carbon	percent	Every 6 months	Representative sample
pH	pH	Every 6 months	Representative sample
Phosphorus (total)	milligrams per kilogram	Every 6 months	Representative sample
Potassium	milligrams per kilogram	Every 6 months	Representative sample
Sodium	milligrams per kilogram	Every 6 months	Representative sample
Sulfur	milligrams per kilogram	Every 6 months	Representative sample

POINT 26

Pollutant	Units of measure	Frequency	Sampling Method
Conductivity	microsiemens per centimetre	Every 6 months	Representative sample
Nitrate	milligrams per litre	Every 6 months	Representative sample
Nitrogen (ammonia)	milligrams per litre	Every 6 months	Representative sample
Nitrogen (total)	milligrams per litre	Every 6 months	Representative sample

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pH	pH	Every 6 months	Representative sample
Phosphorus (total)	milligrams per litre	Every 6 months	Representative sample
Reactive Phosphorus	milligrams per litre	Every 6 months	Representative sample
Total suspended solids	milligrams per litre	Every 6 months	Representative sample

POINT 27,28,29,30,31,51,52

Pollutant	Units of measure	Frequency	Sampling Method
Aggregate stability	As approp.	3 years	Special Method 1
Available phosphorus	milligrams per kilogram	Yearly	Special Method 1
Cation Exchange Capacity	centimoles of positive charge per kilogram of soil	Yearly	Special Method 1
Chloride	milligrams per kilogram	Yearly	Special Method 1
Conductivity	microsiemens per centimetre	Yearly	Special Method 1
Exchangeable calcium	centimoles of positive charge per kilogram of soil	Yearly	Special Method 1
Exchangeable magnesium	centimoles of positive charge per kilogram of soil	Yearly	Special Method 1
Exchangeable potassium	centimoles of positive charge per kilogram of soil	Yearly	Special Method 1
Exchangeable sodium	centimoles of positive charge per kilogram of soil	Yearly	Special Method 1
Exchangeable sodium percentage	percent	Yearly	Special Method 1
Nitrate	milligrams per kilogram	Yearly	Special Method 1
Nitrogen (total)	milligrams per kilogram	Yearly	Special Method 2
Organic carbon	percent	Yearly	Special Method 2
pH	pH	Yearly	Special Method 1
Phosphorus Sorption Capacity	phosphorus sorption capacity of soil	3 years	Special Method 1

POINT 34,35,36,38,40,41,42

Pollutant	Units of measure	Frequency	Sampling Method
Conductivity	microsiemens per centimetre	Every 6 months	Representative sample
Nitrate	milligrams per litre	Every 6 months	Representative sample
Nitrogen (ammonia)	milligrams per litre	Every 6 months	Representative sample
Nitrogen (total)	milligrams per litre	Every 6 months	Representative sample
pH	pH	Every 6 months	Representative sample
Phosphorus (total)	milligrams per litre	Every 6 months	Representative sample
Reactive Phosphorus	milligrams per litre	Every 6 months	Representative sample
Standing Water Level	metres	Every 6 months	In situ

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Total suspended solids	milligrams per litre	Every 6 months	Representative sample
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POINT 43

Pollutant	Units of measure	Frequency	Sampling Method
Aggregate stability	As approp.	Special Frequency 7	Special Method 1
Available phosphorus	milligrams per kilogram	Special Frequency 7	Special Method 1
Cation Exchange Capacity	centimoles of positive charge per kilogram of soil	Special Frequency 7	Special Method 1
Chloride	milligrams per kilogram	Special Frequency 7	Special Method 1
Conductivity	microsiemens per centimetre	Special Frequency 7	Special Method 1
Exchangeable calcium	centimoles of positive charge per kilogram of soil	Special Frequency 7	Special Method 1
Exchangeable magnesium	centimoles of positive charge per kilogram of soil	Special Frequency 7	Special Method 1
Exchangeable potassium	centimoles of positive charge per kilogram of soil	Special Frequency 7	Special Method 1
Exchangeable sodium	centimoles of positive charge per kilogram of soil	Special Frequency 7	Special Method 1
Exchangeable sodium percentage	percent	Special Frequency 7	Special Method 1
Nitrate	milligrams per kilogram	Special Frequency 7	Special Method 1
Nitrogen (total)	milligrams per kilogram	Special Frequency 7	Special Method 2
Organic carbon	percent	Special Frequency 7	Special Method 2
pH	pH	Special Frequency 7	Special Method 1
Phosphorus Sorption Capacity	phosphorus sorption capacity of soil	Special Frequency 7	Special Method 1

POINT 44,45,46,47,53,54,55,56

Pollutant	Units of measure	Frequency	Sampling Method
Conductivity	microsiemens per centimetre	Every 6 months	Representative sample
Nitrate	milligrams per litre	Every 6 months	Representative sample
Nitrogen (ammonia)	milligrams per litre	Every 6 months	Representative sample
Nitrogen (total)	milligrams per litre	Every 6 months	Representative sample
pH	pH	Every 6 months	Representative sample
Phosphorus (total)	milligrams per litre	Every 6 months	Representative sample
Reactive Phosphorus	milligrams per litre	Every 6 months	Representative sample
Standing Water Level	metres	Every 6 months	In situ
Total suspended solids	milligrams per litre	Every 6 months	Representative sample

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Pollutant	Units of measure	Frequency	Sampling Method
Calcium	milligrams per litre	Quarterly	Representative sample
Chloride	milligrams per litre	Quarterly	Representative sample
Conductivity	microsiemens per centimetre	Quarterly	Representative sample
Magnesium	milligrams per litre	Quarterly	Representative sample
Nitrate	milligrams per litre	Quarterly	Representative sample
Nitrogen (ammonia)	milligrams per litre	Quarterly	Representative sample
pH	pH	Quarterly	Representative sample
Phosphorus (total)	milligrams per litre	Quarterly	Representative sample
Potassium	milligrams per litre	Quarterly	Representative sample
Reactive Phosphorus	milligrams per litre	Quarterly	Representative sample
Sodium	milligrams per litre	Quarterly	Representative sample
Sodium Adsorption Ratio	sodium adsorption ratio	Quarterly	Representative sample
Total Kjeldahl Nitrogen	milligrams per litre	Quarterly	Representative sample

M2.3 For the purposes of the table(s) above Special Frequency 1 means the collection of samples shall occur after every overflow event from the holding pond(s), wet weather pond(s) and/or terminal pond(s) and at least every three (3) months. However, monitoring is not required in the three month period at monitoring points 2, 3, 4, 5, 6, 7 and 8 if the monitoring site is dry or inadequate water is available to collect a sample.

M2.4 For the purposes of the table(s) above Special Frequency 4 means the collection of samples shall occur: (a) at every overflow event; and (b) every three (3) months.

M2.5 For the purposes of the table(s) above Special Frequency 7 means the collection of samples shall occur prior to manure application and at least once every three (3) years.

M2.6 For the purposes of the table(s) above Special Method 1 means that, for each paddock (within the EUA or MUA), representative composite samples must be taken of the: (a) top soils; and (b) sub soils.

M2.7 For the purposes of the table(s) above Special Method 2 means that, for each paddock (with the EUA or MUA), representative composite samples must be taken of the top soils.

M2.8 For the purposes of the table(s) above, monitoring at points 10, 14, 22, 48, 49, and 50 is not required if the monitoring site is dry or inadequate water is available to collect a sample

M2.9 For the purposes of the table(s) above, monitoring at points 34, 35, 36, 38, 40, 41, 42, 44, 45, 46, 47, 53, 54, 55 and 56 is not required when the bore is dry or inadequate water is available to collect a sample.

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M3 Testing methods - concentration limits

- M3.1 Subject to any express provision to the contrary in this licence, monitoring for the concentration of a pollutant discharged to waters or applied to a utilisation area must be done in accordance with the Approved Methods Publication unless another method has been approved by the EPA in writing before any tests are conducted.

M4 Weather monitoring

- M4.1 For each monitoring point specified in the table below, the licensee must monitor (by sampling and obtaining results by analysis) the parameters specified in Column 1. The licensee must use the sampling method, units of measure, averaging period and sample at the frequency, specified opposite in the other columns.

Point W1

Parameter	Units of Measurement	Frequency	Averaging Period	Sampling Method
Air temperature	°C	Continuous	1 hour	AM-4
Wind direction	°	Continuous	15 minute	AM-2 & AM-4
Wind speed	m/s	Continuous	15 minute	AM-2 & AM-4
Sigma theta	°	Continuous	15 minute	AM-2 & AM-4
Rainfall	mm	Continuous	24 hour	AM-4

M5 Recording of pollution complaints

- M5.1 The licensee must keep a legible record of all complaints made to the licensee or any employee or agent of the licensee in relation to pollution arising from any activity to which this licence applies.
- M5.2 The record must include details of the following:
- a) the date and time of the complaint;
 - b) the method by which the complaint was made;
 - c) any personal details of the complainant which were provided by the complainant or, if no such details were provided, a note to that effect;
 - d) the nature of the complaint;
 - e) the action taken by the licensee in relation to the complaint, including any follow-up contact with the complainant; and
 - f) if no action was taken by the licensee, the reasons why no action was taken.
- M5.3 The record of a complaint must be kept for at least 4 years after the complaint was made.
- M5.4 The record must be produced to any authorised officer of the EPA who asks to see them.

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M6 Telephone complaints line

- M6.1 The licensee must operate during its operating hours a telephone complaints line for the purpose of receiving any complaints from members of the public in relation to activities conducted at the premises or by the vehicle or mobile plant, unless otherwise specified in the licence.
- M6.2 The licensee must notify the public of the complaints line telephone number and the fact that it is a complaints line so that the impacted community knows how to make a complaint.
- M6.3 The preceding two conditions do not apply until 3 months after: the date of the issue of this licence.

M7 Requirement to monitor volume or mass

- M7.1 For each discharge point or utilisation area specified below, the licensee must monitor:
- a) the volume of liquids discharged to water or applied to the area;
 - b) the mass of solids applied to the area;
 - c) the mass of pollutants emitted to the air;
- at the frequency and using the method and units of measure, specified below.

POINT 10

Frequency	Unit of Measure	Sampling Method
Continuous during discharge	megalitres per year	Special Method 3

POINT 11

Frequency	Unit of Measure	Sampling Method
Continuous during discharge	megalitres per year	Special Method 3

POINT 14

Frequency	Unit of Measure	Sampling Method
Continuous during discharge	megalitres per year	Special Method 3

POINT 20

Frequency	Unit of Measure	Sampling Method
Continuous during discharge	megalitres per year	Special Method 3

POINT 22

Frequency	Unit of Measure	Sampling Method
Continuous during discharge	megalitres per year	Special Method 3

POINT 24

Frequency	Unit of Measure	Sampling Method
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Yearly	tonnes	Special Method 5
POINT 27		
Frequency	Unit of Measure	Sampling Method
Yearly	kilograms per hectare	Special Method 6
POINT 28		
Frequency	Unit of Measure	Sampling Method
Yearly	kilograms per hectare	Special Method 6
POINT 29		
Frequency	Unit of Measure	Sampling Method
Yearly	kilograms per hectare	Special Method 6
POINT 30		
Frequency	Unit of Measure	Sampling Method
Yearly	kilograms per hectare	Special Method 6
POINT 31		
Frequency	Unit of Measure	Sampling Method
Yearly	kilograms per hectare	Special Method 6
POINT 43		
Frequency	Unit of Measure	Sampling Method
Yearly	kilograms per hectare	Special Method 4
POINT 48		
Frequency	Unit of Measure	Sampling Method
Continuous during discharge	megalitres per year	Special Method 3
POINT 49		
Frequency	Unit of Measure	Sampling Method
Continuous during discharge	megalitres per year	Special Method 3
POINT 50		
Frequency	Unit of Measure	Sampling Method
Continuous during discharge	megalitres per year	Special Method 3
POINT 51		
Frequency	Unit of Measure	Sampling Method

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Yearly	kilograms per hectare	Special Method 6
POINT 52		
Frequency	Unit of Measure	Sampling Method
Yearly	kilograms per hectare	Special Method 6
POINT 57		
Frequency	Unit of Measure	Sampling Method
Continuous during discharge	megalitres per year	Special Method 3

M7.2 For the purposes of the table(s) above Special Method 3 means that sampling shall occur by calculation (volume flow rate or pump capacity multiplied by operating time) and that volume data is to be provided for each effluent utilisation area.

For the purposes of the table(s) above Special Method 4 means that the mass of:

1. manure (dry matter) and nutrient (Total Phosphorus, Total Nitrogen and Potassium) applied to each management unit of the Manure Utilisation Area; and
2. crop yield (dry matter) and nutrients removed (Total Phosphorus, Total Nitrogen and Potassium) for each management unit of the Manure Utilisation Area;

are to be monitored.

For the purposes of the table(s) above Special Method 5 means that the amount of solids taken from the manure stockpile (labelled as EPA Point 24 on map titled "Rangers Valley Cattle Station Site Plan" dated 30.07.03) shall be recorded.

For the purposes of the table(s) above Special Method 6 means that the mass of:

3. nutrients (Total Phosphorus, Total Nitrogen and Potassium) applied to the Effluent Utilisation Areas; and
4. crop yield (dry matter) and nutrients removed (Total Phosphorus, Total Nitrogen and Potassium) from the Effluent Utilisation Areas;

are to be monitored.

M8 Other monitoring and recording conditions

M8.1 Testing methods – monitoring concentration of pollutants discharged

Monitoring of solids and soils for concentration of pollutants must be done in accordance with methods that have been approved by the EPA in writing before any tests are conducted. Methods must be approved for:

- (a) the sampling technique; and
- (b) the analytical technique.

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6 Reporting Conditions

R1 Annual return documents

R1.1 The licensee must complete and supply to the EPA an Annual Return in the approved form comprising:

1. a Statement of Compliance,
2. a Monitoring and Complaints Summary,
3. a Statement of Compliance - Licence Conditions,
4. a Statement of Compliance - Load based Fee,
5. a Statement of Compliance - Requirement to Prepare Pollution Incident Response Management Plan,
6. a Statement of Compliance - Requirement to Publish Pollution Monitoring Data; and
7. a Statement of Compliance - Environmental Management Systems and Practices.

At the end of each reporting period, the EPA will provide to the licensee a copy of the form that must be completed and returned to the EPA.

R1.2 An Annual Return must be prepared in respect of each reporting period, except as provided below.

R1.3 Where this licence is transferred from the licensee to a new licensee:

- a) the transferring licensee must prepare an Annual Return for the period commencing on the first day of the reporting period and ending on the date the application for the transfer of the licence to the new licensee is granted; and
- b) the new licensee must prepare an Annual Return for the period commencing on the date the application for the transfer of the licence is granted and ending on the last day of the reporting period.

R1.4 Where this licence is surrendered by the licensee or revoked by the EPA or Minister, the licensee must prepare an Annual Return in respect of the period commencing on the first day of the reporting period and ending on:

- a) in relation to the surrender of a licence - the date when notice in writing of approval of the surrender is given; or
- b) in relation to the revocation of the licence - the date from which notice revoking the licence operates.

R1.5 The Annual Return for the reporting period must be supplied to the EPA via eConnect EPA or by registered post not later than 60 days after the end of each reporting period or in the case of a transferring licence not later than 60 days after the date the transfer was granted (the 'due date').

R1.6 The licensee must retain a copy of the Annual Return supplied to the EPA for a period of at least 4 years after the Annual Return was due to be supplied to the EPA.

R1.7 Within the Annual Return, the Statements of Compliance must be certified and the Monitoring and Complaints Summary must be signed by:

- a) the licence holder; or
- b) by a person approved in writing by the EPA to sign on behalf of the licence holder.

R1.8 Monitoring report

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The licensee must supply with the Annual Return a report, which provides:

- a) an analysis and interpretation of monitoring results; and
- b) actions to correct identified adverse trends.

Note: The term "reporting period" is defined in the dictionary at the end of this licence. Do not complete the Annual Return until after the end of the reporting period.

Note: An application to transfer a licence must be made in the approved form for this purpose.

R2 Notification of environmental harm

R2.1 Notifications must be made by telephoning the Environment Line service on 131 555.

R2.2 The licensee must provide written details of the notification to the EPA within 7 days of the date on which the incident occurred.

Note: The licensee or its employees must notify all relevant authorities of incidents causing or threatening material harm to the environment immediately after the person becomes aware of the incident in accordance with the requirements of Part 5.7 of the Act.

R3 Written report

R3.1 Where an authorised officer of the EPA suspects on reasonable grounds that:

- a) where this licence applies to premises, an event has occurred at the premises; or
- b) where this licence applies to vehicles or mobile plant, an event has occurred in connection with the carrying out of the activities authorised by this licence, and the event has caused, is causing or is likely to cause material harm to the environment (whether the harm occurs on or off premises to which the licence applies), the authorised officer may request a written report of the event.

R3.2 The licensee must make all reasonable inquiries in relation to the event and supply the report to the EPA within such time as may be specified in the request.

R3.3 The request may require a report which includes any or all of the following information:

- a) the cause, time and duration of the event;
- b) the type, volume and concentration of every pollutant discharged as a result of the event;
- c) the name, address and business hours telephone number of employees or agents of the licensee, or a specified class of them, who witnessed the event;
- d) the name, address and business hours telephone number of every other person (of whom the licensee is aware) who witnessed the event, unless the licensee has been unable to obtain that information after making reasonable effort;
- e) action taken by the licensee in relation to the event, including any follow-up contact with any complainants;
- f) details of any measure taken or proposed to be taken to prevent or mitigate against a recurrence of such an event; and
- g) any other relevant matters.

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- R3.4 The EPA may make a written request for further details in relation to any of the above matters if it is not satisfied with the report provided by the licensee. The licensee must provide such further details to the EPA within the time specified in the request.

7 General Conditions

G1 Copy of licence kept at the premises or plant

- G1.1 A copy of this licence must be kept at the premises to which the licence applies.
- G1.2 The licence must be produced to any authorised officer of the EPA who asks to see it.
- G1.3 The licence must be available for inspection by any employee or agent of the licensee working at the premises.

G2 Contact number for incidents and responsible employees

- G2.1 The licensee must operate one 24-hour telephone contact line for the purpose of enabling the EPA:
- a) to contact the licensee or a representative of the licensee who can respond at all times to incidents relating to individual premises, and
 - b) to contact the licensee's senior employees or agents authorised at all times to:
 - i) speak on behalf of the licensee, and
 - ii) provide any information or document required under licence.
- G2.2 The licensee is to inform the EPA of the contact number within 3 months of this condition taking effect.

G3 Signage

- G3.1 Each monitoring and discharge point must be clearly marked by a sign that indicates the EPA point identification number.

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Dictionary

General Dictionary

3DGM [in relation to a concentration limit]	Means the three day geometric mean, which is calculated by multiplying the results of the analysis of three samples collected on consecutive days and then taking the cubed root of that amount. Where one or more of the samples is zero or below the detection limit for the analysis, then 1 or the detection limit respectively should be used in place of those samples
Act	Means the Protection of the Environment Operations Act 1997
activity	Means a scheduled or non-scheduled activity within the meaning of the Protection of the Environment Operations Act 1997
actual load	Has the same meaning as in the Protection of the Environment Operations (General) Regulation 2009
AM	Together with a number, means an ambient air monitoring method of that number prescribed by the <i>Approved Methods for the Sampling and Analysis of Air Pollutants in New South Wales</i> .
AMG	Australian Map Grid
anniversary date	The anniversary date is the anniversary each year of the date of issue of the licence. In the case of a licence continued in force by the Protection of the Environment Operations Act 1997, the date of issue of the licence is the first anniversary of the date of issue or last renewal of the licence following the commencement of the Act.
annual return	Is defined in R1.1
Approved Methods Publication	Has the same meaning as in the Protection of the Environment Operations (General) Regulation 2009
assessable pollutants	Has the same meaning as in the Protection of the Environment Operations (General) Regulation 2009
BOD	Means biochemical oxygen demand
CEM	Together with a number, means a continuous emission monitoring method of that number prescribed by the <i>Approved Methods for the Sampling and Analysis of Air Pollutants in New South Wales</i> .
COD	Means chemical oxygen demand
composite sample	Unless otherwise specifically approved in writing by the EPA, a sample consisting of 24 individual samples collected at hourly intervals and each having an equivalent volume.
cond.	Means conductivity
environment	Has the same meaning as in the Protection of the Environment Operations Act 1997
environment protection legislation	Has the same meaning as in the Protection of the Environment Administration Act 1991
EPA	Means Environment Protection Authority of New South Wales.
fee-based activity classification	Means the numbered short descriptions in Schedule 1 of the Protection of the Environment Operations (General) Regulation 2009.
general solid waste (non-putrescible)	Has the same meaning as in Part 3 of Schedule 1 of the Protection of the Environment Operations Act 1997

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flow weighted composite sample	Means a sample whose composites are sized in proportion to the flow at each composites time of collection.
general solid waste (putrescible)	Has the same meaning as in Part 3 of Schedule 1 of the Protection of the Environment Operations Act 1997
grab sample	Means a single sample taken at a point at a single time
hazardous waste	Has the same meaning as in Part 3 of Schedule 1 of the Protection of the Environment Operations Act 1997
licensee	Means the licence holder described at the front of this licence
load calculation protocol	Has the same meaning as in the Protection of the Environment Operations (General) Regulation 2009
local authority	Has the same meaning as in the Protection of the Environment Operations Act 1997
material harm	Has the same meaning as in section 147 Protection of the Environment Operations Act 1997
MBAS	Means methylene blue active substances
Minister	Means the Minister administering the Protection of the Environment Operations Act 1997
mobile plant	Has the same meaning as in Part 3 of Schedule 1 of the Protection of the Environment Operations Act 1997
motor vehicle	Has the same meaning as in the Protection of the Environment Operations Act 1997
O&G	Means oil and grease
percentile [in relation to a concentration limit of a sample]	Means that percentage (eg.50%) of the number of samples taken that must meet the concentration limit specified in the licence for that pollutant over a specified period of time. In this licence, the specified period of time is the Reporting Period unless otherwise stated in this licence.
plant	Includes all plant within the meaning of the Protection of the Environment Operations Act 1997 as well as motor vehicles.
pollution of waters [or water pollution]	Has the same meaning as in the Protection of the Environment Operations Act 1997
premises	Means the premises described in condition A2.1
public authority	Has the same meaning as in the Protection of the Environment Operations Act 1997
regional office	Means the relevant EPA office referred to in the Contacting the EPA document accompanying this licence
reporting period	For the purposes of this licence, the reporting period means the period of 12 months after the issue of the licence, and each subsequent period of 12 months. In the case of a licence continued in force by the Protection of the Environment Operations Act 1997, the date of issue of the licence is the first anniversary of the date of issue or last renewal of the licence following the commencement of the Act.
restricted solid waste	Has the same meaning as in Part 3 of Schedule 1 of the Protection of the Environment Operations Act 1997
scheduled activity	Means an activity listed in Schedule 1 of the Protection of the Environment Operations Act 1997
special waste	Has the same meaning as in Part 3 of Schedule 1 of the Protection of the Environment Operations Act 1997
TM	Together with a number, means a test method of that number prescribed by the <i>Approved Methods for the Sampling and Analysis of Air Pollutants in New South Wales</i> .

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TSP	Means total suspended particles
TSS	Means total suspended solids
Type 1 substance	Means the elements antimony, arsenic, cadmium, lead or mercury or any compound containing one or more of those elements
Type 2 substance	Means the elements beryllium, chromium, cobalt, manganese, nickel, selenium, tin or vanadium or any compound containing one or more of those elements
utilisation area	Means any area shown as a utilisation area on a map submitted with the application for this licence
waste	Has the same meaning as in the Protection of the Environment Operations Act 1997
waste type	Means liquid, restricted solid waste, general solid waste (putrescible), general solid waste (non - putrescible), special waste or hazardous waste

Mr David Dutailis

Environment Protection Authority

(By Delegation)

Date of this edition: 31-August-2001

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End Notes

- 1 Licence varied by notice 1027134, issued on 27-Oct-2003, which came into effect on 21-Nov-2003.
- 2 Licence varied by notice 1035431, issued on 18-Mar-2004, which came into effect on 19-Mar-2004.
- 3 Licence varied by change to record due to LGA amalgamation, issued on 27-Oct-2004, which came into effect on 27-Oct-2004.
- 4 Licence varied by notice 1056214, issued on 28-Dec-2006, which came into effect on 28-Dec-2006.
- 5 Licence varied by notice 1071584, issued on 23-Aug-2007, which came into effect on 23-Aug-2007.
- 6 Licence varied by notice 1078921, issued on 06-Nov-2007, which came into effect on 06-Nov-2007.
- 7 Licence varied by notice 1082561, issued on 07-Feb-2008, which came into effect on 07-Feb-2008.
- 8 Condition A1.3 Not applicable varied by notice issued on <issue date> which came into effect on <effective date>
- 9 Licence varied by correction to Scheduled Activity name, issued on 28-Feb-2011, which came into effect on 28-Feb-2011.
- 10 Licence varied by notice 1503436 issued on 27-Jan-2012
- 11 Licence varied by notice 1515048 issued on 28-Jun-2013
- 12 Licence varied by notice 1546705 issued on 25-Jan-2017