

Blantyre Farms, Murringo Rd, Young NSW 2594

EPA public register: <http://www.epa.nsw.gov.au/publicregister/>

EPL 1643

Effluent Volume Monitoring - Monitoring Point 2

Year	2016-2017	2017-2018	2018-2019	2019-2020
Unit of Measure	kL/day	kL/day	kL/day	kL/day
Frequency	Daily	Daily	Daily	Daily
No. of measurements	365	365	365	365
Lowest result	0	0	0	0
Mean result	37.1	12.3	24.1	16.93
Highest result	300	150	158	180

EPL 11468

Effluent Quality Monitoring - Point 3 - Yearly frequency

Date		2016-2017	2017-2018	2018-2019	2019-2020
Conductivity	µS/cm	21000	26000	27000	24800
Nitrogen - total	mg/L	1600	65	2100	2410
pH	pH	7.9	7.9	7.9	8.02
Phosphorus - total	mg/L	30	11	42	42.8
Sodium Adsorption Ratio	mg/L	20	44	16	44.4

SEP's Waste Monitoring - Point 5 - Yearly frequency

Date		2016-2017	2017-2018	2018-2019	2019-2020
Nitrogen - total	mg/kg	14000	24000	19000	23000
Phosphorus - total	mg/kg	20000	26000	70000	24100
Potassium	mg/kg	8100	9600	7800	5400
Sodium	mg/kg	5100	4300	4400	1660

Groundwater monitoring - Yearly frequency

Point 7 (DHG2)

Date		2016-2017	2017-2018	2018-2019	2019-2020
Ammonia	mg/L	0.12	<0.01	0.02	<0.01
Conductivity	µS/cm	2700	3400	3500	3300
Nitrate	mg/L	0.93	2	1.7	1.8
pH	pH	7	7.4	7.9	7.3
Standing Water Level	M	25	27	27	35

Point 10 (DHG5)

Date		2016-2017	2017-2018	2018-2019	2019-2020
Ammonia	mg/L	0.13	0.17		
Conductivity	µS/cm	3700	4900		
Nitrate	mg/L	0.07	0.19		
pH	pH	7.1	8.1		
Standing Water Level	M	35	35	Dry	Dry

Point 11 (DHG6)

Date		2016-2017	2017-2018	2018-2019	2019-2020
Ammonia	mg/L				
Conductivity	µS/cm				
Nitrate	mg/L				
pH	pH				
Standing Water Level	M	Dry	Dry	Dry	Dry

## Soils monitoring - Yearly frequency

## Point 16 (YP)

Date		2016-2017	2017-2018	2018-2019	2019-2020
Aluminium	cmol(+)	0.1	<0.1	<0.1	<0.1
Available Phosphorus	mg/kg	47	26	40	25
Calcium	cmol(+)	2.2	2.2	2.1	2.3
Cation Exchange Capacity	cmol(+)	3.9	3.6	3.5	3.7
Chloride	mg/kg	33	13	21	<10
Conductivity	dS/m	0.09	0.07	0.09	0.05
Magnesium	cmol(+)	0.7	0.5	0.6	0.6
Nitrate	mg/kg	12	10	24	12
Nitrogen - total	mg/kg	1700	1700	1900	1400
Organic Carbon	%	1.7	1	1.6	1.3
pH	pH	5.9	6.1	6	6
Potassium	cmol(+)	0.83	0.91	0.85	0.82
Sodium	cmol(+)	0.1	0.03	0.03	0.06

## Point 17 (YS)

Date		2016-2017	2017-2018	2018-2019	2019-2020
Aluminium	cmol(+)	<0.1	<0.1	<0.1	<0.1
Available Phosphorus	mg/kg	76	56	67	37
Calcium	cmol(+)	3	2.9	2.8	2.6
Cation Exchange Capacity	cmol(+)	4.5	3.7	3.8	3.5
Chloride	mg/kg	21	<10	<10	<10
Conductivity	dS/m	0.07	0.05	0.04	0.04
Magnesium	cmol(+)	0.8	0.5	0.6	0.5
Nitrate	mg/kg	8	8	5	8.2
Nitrogen - total	mg/kg	1700	1400	1100	1100
Organic Carbon	%	1.6	0.9	1.2	1
pH	pH	6.4	6.5	6.4	6.3
Potassium	cmol(+)	0.58	0.35	0.44	0.4
Sodium	cmol(+)	0.03	<0.02	<0.02	<0.02

## Point 18 (RP)

Date		2016-2017	2017-2018	2018-2019	2019-2020
Aluminium	cmol(+)	0.1	<0.1	<0.1	<0.1
Available Phosphorus	mg/kg	110	39	66	49
Calcium	cmol(+)	7.3	3.3	4.5	3.4
Cation Exchange Capacity	cmol(+)	10	4.6	6.3	4.8
Chloride	mg/kg	19	13	<10	<10
Conductivity	dS/m	0.12	0.09	0.09	0.1
Magnesium	cmol(+)	1.5	0.6	0.9	0.7
Nitrate	mg/kg	30	26	21	39
Nitrogen - total	mg/kg	2700	1900	1900	1400
Organic Carbon	%	2.5	1	1.7	1.3
pH	pH	6.8	6.3	6.6	6.1
Potassium	cmol(+)	1	0.7	0.91	0.75
Sodium	cmol(+)	0.08	<0.02	0.05	<0.02

## Point 19 (RE)

Date		2016-2017	2017-2018	2018-2019	2019-2020
Aluminium	cmol(+)	0.1	<0.1	<0.1	<0.1
Available Phosphorus	mg/kg	75	15	86	18
Calcium	cmol(+)	9.3	5	5	5.7
Cation Exchange Capacity	cmol(+)	13.5	8.1	7.4	8.3
Chloride	mg/kg	52	10	<10	<10
Conductivity	dS/m	0.16	0.06	0.07	0.05
Magnesium	cmol(+)	1.9	1.7	1.4	1.5
Nitrate	mg/kg	10	7	5	8.3
Nitrogen - total	mg/kg	3600	1700	3000	1500
Organic Carbon	%	3.2	1.4	2.6	1.5
pH	pH	6.8	6.4	6.5	6.4
Potassium	cmol(+)	2.1	1.4	1	1.1
Sodium	cmol(+)	0.05	0.04	0.03	<0.02

## Point 20 (LI)

Date		2016-2017	2017-2018	2018-2019	2019-2020
Aluminium	cmol(+)	<0.1	<0.1	<0.1	<0.1
Available Phosphorus	mg/kg	36	39	23	42
Calcium	cmol(+)	4.6	3.9	3.3	4.3
Cation Exchange Capacity	cmol(+)	6.2	4.9	4.5	5.5
Chloride	mg/kg	15	<10	11	<10
Conductivity	dS/m	0.06	0.06	0.06	0.05
Magnesium	cmol(+)	1	0.6	0.8	0.8
Nitrate	mg/kg	6	6	18	9.9
Nitrogen - total	mg/kg	2200	1800	1600	1300
Organic Carbon	%	2	0.8	1.9	1.2
pH	pH	6.2	7.3	5.8	6.9
Potassium	cmol(+)	0.5	0.43	0.23	0.43
Sodium	cmol(+)	0.07	<0.02	0.07	<0.02

Soils monitoring - 3 yearly frequency

## Point 21 (YP)

Date		2018-2019
Aluminium	cmol(+)	<0.1
Available Phosphorus	mg/kg	<5
Calcium	cmol(+)	4.5
Cation Exchange Capacity	cmol(+)	9.4
Chloride	mg/kg	35
Conductivity	dS/m	0.06
Magnesium	cmol(+)	4.1
Nitrate	mg/kg	4
Nitrogen - total	mg/kg	<500
Organic Carbon	%	<0.2
pH	pH	7.5
Potassium	cmol(+)	0.27
Sodium	cmol(+)	0.54

## Point 22 (YS)

Date		2018-2019
Aluminium	cmol(+)	<0.1
Available Phosphorus	mg/kg	<5
Calcium	cmol(+)	3.1
Cation Exchange Capacity	cmol(+)	7.1
Chloride	mg/kg	<10
Conductivity	dS/m	0.03
Magnesium	cmol(+)	3.6
Nitrate	mg/kg	3
Nitrogen - total	mg/kg	<500

Organic Carbon	%	0.3
pH	pH	6.4
Potassium	cmol(+)	0.26
Sodium	cmol(+)	0.18

Point 23 (RP)

Date		2018-2019
Aluminium	cmol(+)	<0.1
Available Phosphorus	mg/kg	<5
Calcium	cmol(+)	4.2
Cation Exchange Capacity	cmol(+)	6.8
Chloride	mg/kg	<10
Conductivity	dS/m	0.04
Magnesium	cmol(+)	2.3
Nitrate	mg/kg	4
Nitrogen - total	mg/kg	<500
Organic Carbon	%	0.3
pH	pH	7.6
Potassium	cmol(+)	0.23
Sodium	cmol(+)	0.18

Point 24 (RE)

Date		2018-2019
Aluminium	cmol(+)	0.1
Available Phosphorus	mg/kg	<5
Calcium	cmol(+)	3
Cation Exchange Capacity	cmol(+)	9.9
Chloride	mg/kg	40
Conductivity	dS/m	0.06
Magnesium	cmol(+)	5.7
Nitrate	mg/kg	<1
Nitrogen - total	mg/kg	700
Organic Carbon	%	0.3
pH	pH	7.5
Potassium	cmol(+)	0.7
Sodium	cmol(+)	0.31

Point 25 (LI)

Date		2018-2019
Aluminium	cmol(+)	<0.1
Available Phosphorus	mg/kg	<5
Calcium	cmol(+)	6.1
Cation Exchange Capacity	cmol(+)	15
Chloride	mg/kg	20
Conductivity	dS/m	0.09
Magnesium	cmol(+)	7.9
Nitrate	mg/kg	1
Nitrogen - total	mg/kg	<500
Organic Carbon	%	0.3
pH	pH	8.4
Potassium	cmol(+)	0.13
Sodium	cmol(+)	0.85

Effluent Volume Monitoring - Monitoring Point 2

Year	2016-2017	2017-2018	2018-2019	2019-2020
Unit of Measure	kL/day	kL/day	kL/day	kL/day
Frequency	Daily	Daily	Daily	Daily
No. of measurements	365	365	365	365
Lowest result	0	0	0	0
Mean result	56.6	9.6	7.6	28.9
Highest result	425	400	400	368

SEPS Waste Monitoring - Monitoring Point 5

Year	2016-2017	2017-2018	2018-2019	2019-2020
Unit of Measure	tonnes	tonnes	tonnes	tonnes
Frequency	Yearly	Yearly	Yearly	Yearly
No. of measurements	1	1	1	1
Lowest result	0	0	0	0
Mean result	330	120	264	420
High result	0	0	0	0