

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	2015-2016	2016-2017	2017-2018	2018-2019
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	45.9	37.1	12.3	24.1
Highest result	210	300	150	158

EPL 11468

Effluent Quality Monitoring - Point 3 - Yearly frequency

Date		2015-2016	2016-2017	2017-2018	2018-2019
Conductivity	(µS/cm)	1600	21000	26000	27000
Nitrogen - total	mg/L	290	1600	65	2100
pH	pH	8.1	7.9	7.9	7.9
Phosphorus - total	mg/L	12	30	11	42
Sodium Adsorption Ratio	mg/L	23	20	44	16

SEP's Waste Monitoring - Point 5 - Yearly frequency

Date		2015-2016	2016-2017	2017-2018	2018-2019
Nitrogen - total	mg/kg	21200	14000	24000	19000
Phosphorus - total	mg/kg	38000	20000	26000	70000
Potassium	mg/kg	9300	8100	9600	7800
Sodium	mg/kg	2600	5100	4300	4400

Groundwater monitoring - Yearly frequency

Point 7 (DHG2)

Date		2015-2016	2016-2017	2017-2018	2018-2019
Ammonia	mg/L	0.18	0.12	<0.01	0.02
Conductivity	µS/cm	3400	2700	3400	3500
Nitrate	mg/L	1.4	0.93	2	1.7
pH	pH	8	7	7.4	7.9
Standing Water Level	M	30	25	27	27

Point 10 (DHG5)

Date		2015-2016	2016-2017	2017-2018	2018-2019
Ammonia	mg/L	0.24	0.13	0.17	
Conductivity	µS/cm	3600	3700	4900	
Nitrate	mg/L	0.15	0.07	0.19	
pH	pH	8	7.1	8.1	
Standing Water Level	M	40	35	35	Dry

Point 11 (DHG6)

Date		2015-2016	2016-2017	2017-2018	2018-2019
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		2015-2016	2015-2016	2016-2017	2017-2018	2018-2019
Aluminium	cmol(+)	<0.1	0.3	0.1	<0.1	<0.1
Available Phosphorus	mg/kg	6	18	47	26	40
Calcium	cmol(+)	1.1	6.4	2.2	2.2	2.1
Cation Exchange Capacity	cmol(+)	2.6	11.5	3.9	3.6	3.5
Chloride	mg/kg	<10	48	33	13	21
Conductivity	dS/m	0.04	0.09	0.09	0.07	0.09
Magnesium	cmol(+)	0.3	3.9	0.7	0.5	0.6
Nitrate	mg/kg	2	6	12	10	24
Nitrogen - total	mg/kg	300	1200	1700	1700	1900
Organic Carbon	%	0.2	1	1.7	1	1.6
pH	pH	5.9	7.8	5.9	6.1	6
Potassium	cmol(+)	0.75	0.91	0.83	0.91	0.85
Sodium	cmol(+)	0.02	0.38	0.1	0.03	0.03

## Point 17 (YS)

Date		2015-2016	2015-2016	2016-2017	2017-2018	2018-2019
Aluminium	cmol(+)	<0.1	0.2	<0.1	<0.1	<0.1
Available Phosphorus	mg/kg	<5	72	76	56	67
Calcium	cmol(+)	3.4	3.4	3	2.9	2.8
Cation Exchange Capacity	cmol(+)	4.3	9.3	4.5	3.7	3.8
Chloride	mg/kg	<10	<10	21	<10	<10
Conductivity	dS/m	0.04	0.04	0.07	0.05	0.04
Magnesium	cmol(+)	0.5	4.9	0.8	0.5	0.6
Nitrate	mg/kg	2	2	8	8	5
Nitrogen - total	mg/kg	200	1200	1700	1400	1100
Organic Carbon	%	<0.2	1	1.6	0.9	1.2
pH	pH	6.4	6.9	6.4	6.5	6.4
Potassium	cmol(+)	0.28	0.37	0.58	0.35	0.44
Sodium	cmol(+)	0.03	0.52	0.03	<0.02	<0.02

## Point 18 (RP)

Date		2015-2016	2015-2016	2016-2017	2017-2018	2018-2019
Aluminium	cmol(+)	<1.0	<1.0	0.1	<0.1	<0.1
Available Phosphorus	mg/kg	<5	46	110	39	66
Calcium	cmol(+)	2.6	3.6	7.3	3.3	4.5
Cation Exchange Capacity	cmol(+)	5.5	6.5	10	4.6	6.3
Chloride	mg/kg	<10	<10	19	13	<10
Conductivity	dS/m	0.03	0.06	0.12	0.09	0.09
Magnesium	cmol(+)	0.9	3.5	1.5	0.6	0.9
Nitrate	mg/kg	2	4	30	26	21
Nitrogen - total	mg/kg	300	1500	2700	1900	1900
Organic Carbon	%	0.2	1.3	2.5	1	1.7
pH	pH	6.8	6.9	6.8	6.3	6.6
Potassium	cmol(+)	0.2	0.92	1	0.7	0.91
Sodium	cmol(+)	0.03	0.21	0.08	<0.02	0.05

## Point 19 (RE)

Date		2015-2016	2015-2016	2016-2017	2017-2018	2018-2019
Aluminium	cmol(+)	<0.1	<0.1	0.1	<0.1	<0.1
Available Phosphorus	mg/kg	<5	40	75	15	86
Calcium	cmol(+)	4.5	5.8	9.3	5	5
Cation Exchange Capacity	cmol(+)	6.6	10.4	13.5	8.1	7.4
Chloride	mg/kg	<10	<10	52	10	<10
Conductivity	dS/m	0.03	0.06	0.16	0.06	0.07
Magnesium	cmol(+)	0.9	4	1.9	1.7	1.4
Nitrate	mg/kg	1	3	10	7	5
Nitrogen - total	mg/kg	400	1900	3600	1700	3000
Organic Carbon	%	0.2	1.7	3.2	1.4	2.6
pH	pH	7	7.4	6.8	6.4	6.5
Potassium	cmol(+)	0.45	1.1	2.1	1.4	1
Sodium	cmol(+)	0.03	0.14	0.05	0.04	0.03

## Point 20 (LI)

Date		2015-2016	2015-2016	2016-2017	2017-2018	2018-2019
Aluminium	cmol(+)	<0.1	<0.1	<0.1	<0.1	<0.1
Available Phosphorus	mg/kg	<5	32	36	39	23
Calcium	cmol(+)	4.3	4.8	4.6	3.9	3.3
Cation Exchange Capacity	cmol(+)	4.8	6.6	6.2	4.9	4.5
Chloride	mg/kg	<10	<10	15	<10	11
Conductivity	dS/m	0.02	0.03	0.06	0.06	0.06
Magnesium	cmol(+)	0.4	1.9	1	0.6	0.8
Nitrate	mg/kg	<1	2	6	6	18
Nitrogen - total	mg/kg	100	1500	2200	1800	1600
Organic Carbon	%	<0.2	1.3	2	0.8	1.9
pH	pH	6.8	7.2	6.2	7.3	5.8
Potassium	cmol(+)	0.27	0.31	0.5	0.43	0.23
Sodium	cmol(+)	<0.02	0.2	0.07	<0.02	0.07

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	2015-2016	2016-2017	2017-2018	2018-2019
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	25.2	56.6	9.6	7.6
Highest result	450	425	400	400

SEPS Waste Monitoring - Monitoring Point 5

Year	2015-2016	2016-2017	2017-2018	2018-2019
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	690	330	120	264
High result	0	0	0	0