

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	2019-2020	2020-2021	2021-2022	2022-2023
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	16.93	46.91	50.3	29.3
Highest result	180	135	120	206

EPL 11468

Effluent Quality Monitoring - Point 3 - Yearly frequency

Date		2019-2020	2020-2021	2021-2022	2022-2023
Conductivity	µS/cm	24800	19600	15900	13900
Nitrogen - total	mg/L	2410	1750	1340	1390
pH	pH	8.02	8.08	8.07	8.15
Phosphorus - total	mg/L	42.8	32.8	32.6	17.5
Sodium Adsorption Ratio		44.4	32.1	10.1	20.8

SEP's Waste Monitoring - Point 5 - Yearly frequency

Date		2019-2020	2020-2021	2021-2022	2022-2023
Nitrogen - total	mg/kg	23000	16300	25500	12800
Phosphorus - total	mg/kg	24100	24900	42300	34100
Potassium	mg/kg	5400	4150	2450	5540
Sodium	mg/kg	1660	1270	375	2800

Groundwater monitoring - Yearly frequency

Point 7 (DHG2)

Date		2019-2020	2020-2021	2021-2022	2022-2023
Ammonia	mg/L	<0.01	0.06	<0.01	<0.01
Conductivity	µS/cm	3300	3800	3600	3500
Nitrate	mg/L	1.8	1.8	1.7	1.9
pH	pH	7.3	7.8	7.8	7.1
Standing Water Level	M	35	28	24	20

Point 10 (DHG5)

Date		2019-2020	2020-2021	2021-2022	2022-2023
Ammonia	mg/L			0.1	<0.01
Conductivity	µS/cm			2700	4100
Nitrate	mg/L			2.7	0.35
pH	pH			7.4	7.4
Standing Water Level	M	Dry	Dry	35	34

Point 11 (DHG6)

Date		2019-2020	2020-2021	2021-2022	2022-2023
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		2019-2020	2020-2021	2021-2022	2022-2023
Aluminium	cmol(+)	<0.1	<0.1	<0.1	<0.1
Available Phosphorus	mg/kg	25	33	40	31
Calcium	cmol(+)	2.3	2.9	2.9	2.7
Cation Exchange Capacity	cmol(+)	3.7	4.7	4.5	4.3
Chloride	mg/kg	<10	23	12	21
Conductivity	dS/m	0.05	0.09	0.07	0.11
Magnesium	cmol(+)	0.6	0.8	0.7	0.7
Nitrate	mg/kg	12	15	6.7	11
Nitrogen - total	mg/kg	1400	1900	1900	1500
Organic Carbon	%	1.3	2.2	2.2	2
pH	pH	6	5.8	6.1	5.9
Potassium	cmol(+)	0.82	0.99	0.83	0.88
Sodium	cmol(+)	0.06	0.05	0.03	0.03

Point 17 (YS)

Date		2019-2020	2020-2021	2021-2022	2022-2023
Aluminium	cmol(+)	<0.1	<0.1	<0.1	<0.1
Available Phosphorus	mg/kg	37	66	54	66
Calcium	cmol(+)	2.6	3.7	3.2	3
Cation Exchange Capacity	cmol(+)	3.5	5.3	4.6	4.1
Chloride	mg/kg	<10	<10	12	17
Conductivity	dS/m	0.04	0.07	0.08	0.08
Magnesium	cmol(+)	0.5	0.8	0.8	0.7
Nitrate	mg/kg	8.2	7.4	11	11
Nitrogen - total	mg/kg	1100	1700	1600	1200
Organic Carbon	%	1	1.8	1.8	1.5
pH	pH	6.3	6.5	6.5	6.3
Potassium	cmol(+)	0.4	0.65	0.55	0.41
Sodium	cmol(+)	<0.02	0.05	<0.02	<0.02

Point 18 (RP)

Date		2019-2020	2020-2021	2021-2022	2022-2023
Aluminium	cmol(+)	<0.1	<0.1	<0.1	<0.1
Available Phosphorus	mg/kg	49	98	75	46
Calcium	cmol(+)	3.4	5.9	5.4	4.6
Cation Exchange Capacity	cmol(+)	4.8	8.1	7.4	6.4
Chloride	mg/kg	<10	<10	13	17
Conductivity	dS/m	0.1	0.26	0.09	0.1
Magnesium	cmol(+)	0.7	1.1	1.1	0.9
Nitrate	mg/kg	39	16	6	9.4
Nitrogen - total	mg/kg	1400	2000	2000	1300
Organic Carbon	%	1.3	2.2	2	1.8
pH	pH	6.1	6.3	6.9	6.5
Potassium	cmol(+)	0.75	1	0.91	0.88
Sodium	cmol(+)	<0.02	0.05	0.03	0.02

Point 19 (RE)

Date		2019-2020	2020-2021	2021-2022	2022-2023
Aluminium	cmol(+)	<0.1	<0.1	<0.1	<0.1
Available Phosphorus	mg/kg	18	62	7	22
Calcium	cmol(+)	5.7	7.5	6.7	5.9
Cation Exchange Capacity	cmol(+)	8.3	11.1	9.8	8.4
Chloride	mg/kg	<10	12	10	24
Conductivity	dS/m	0.05	0.09	0.10	0.07
Magnesium	cmol(+)	1.5	2	1.8	1.4
Nitrate	mg/kg	8.3	8.1	16	7
Nitrogen - total	mg/kg	1500	1800	1900	1400
Organic Carbon	%	1.5	2.3	2.2	1.9
pH	pH	6.4	6.5	6.7	6.4
Potassium	cmol(+)	1.1	1.6	1.3	1.1
Sodium	cmol(+)	<0.02	0.03	0.03	0.03

Point 20 (LI)

Date		2019-2020	2020-2021	2021-2022	2022-2023
Aluminium	cmol(+)	<0.1	<0.1	<0.1	<0.1
Available Phosphorus	mg/kg	42	65	35	46
Calcium	cmol(+)	4.3	5.6	4.4	5.3
Cation Exchange Capacity	cmol(+)	5.5	7.3	5.9	6.9
Chloride	mg/kg	<10	<10	48	27
Conductivity	dS/m	0.05	0.10	0.11	0.09
Magnesium	cmol(+)	0.8	1.0	0.7	0.9
Nitrate	mg/kg	9.9	34	20	13
Nitrogen - total	mg/kg	1300	2500	2200	1800
Organic Carbon	%	1.2	2.7	2.1	2.1
pH	pH	6.9	5.9	6.2	6.4
Potassium	cmol(+)	0.43	0.73	0.64	0.59
Sodium	cmol(+)	<0.02	<0.02	0.13	0.06

Soils monitoring - 3 yearly frequency

Point 21 (YP)

Date		2021-2022
Aluminium	cmol(+)	<0.1
Available Phosphorus	mg/kg	7
Calcium	cmol(+)	4.6
Cation Exchange Capacity	cmol(+)	8.5
Chloride	mg/kg	<10
Conductivity	dS/m	0.04
Magnesium	cmol(+)	3.2
Nitrate	mg/kg	2.6
Nitrogen - total	mg/kg	<500
Organic Carbon	%	0.2
pH	pH	7.4
Potassium	cmol(+)	0.42
Sodium	cmol(+)	0.32

Point 22 (YS)

Date		2021-2022
Aluminium	cmol(+)	<0.1
Available Phosphorus	mg/kg	11
Calcium	cmol(+)	3.0
Cation Exchange Capacity	cmol(+)	5.2
Chloride	mg/kg	<10
Conductivity	dS/m	0.04
Magnesium	cmol(+)	1.8
Nitrate	mg/kg	2
Nitrogen - total	mg/kg	<500

Organic Carbon	%	0.2
pH	pH	7.3
Potassium	cmol(+)	0.18
Sodium	cmol(+)	0.15

Point 23 (RP)

Date		2021-2022
Aluminium	cmol(+)	<0.1
Available Phosphorus	mg/kg	5
Calcium	cmol(+)	3.5
Cation Exchange Capacity	cmol(+)	6.4
Chloride	mg/kg	<10
Conductivity	dS/m	0.03
Magnesium	cmol(+)	2.5
Nitrate	mg/kg	2
Nitrogen - total	mg/kg	<500
Organic Carbon	%	0.3
pH	pH	7.4
Potassium	cmol(+)	0.20
Sodium	cmol(+)	0.17

Point 24 (RE)

Date		2021-2022
Aluminium	cmol(+)	<0.1
Available Phosphorus	mg/kg	8
Calcium	cmol(+)	5.9
Cation Exchange Capacity	cmol(+)	11.4
Chloride	mg/kg	<10
Conductivity	dS/m	0.04
Magnesium	cmol(+)	4.8
Nitrate	mg/kg	4
Nitrogen - total	mg/kg	<500
Organic Carbon	%	0.4
pH	pH	7.4
Potassium	cmol(+)	0.45
Sodium	cmol(+)	0.28

Point 25 (LI)

Date		2021-2022
Aluminium	cmol(+)	<0.1
Available Phosphorus	mg/kg	13
Calcium	cmol(+)	2.3
Cation Exchange Capacity	cmol(+)	3.1
Chloride	mg/kg	<10
Conductivity	dS/m	0.02
Magnesium	cmol(+)	0.6
Nitrate	mg/kg	1.8
Nitrogen - total	mg/kg	<500
Organic Carbon	%	<0.2
pH	pH	7.2
Potassium	cmol(+)	0.12
Sodium	cmol(+)	0.04

Effluent Volume Monitoring - Monitoring Point 2

Year	2019-2020	2020-2021	2021-2022	2022-2023
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	28.9	49.8	103	66.9
Highest result	368	500	375	387

SEPS Waste Monitoring - Monitoring Point 5

Year	2019-2020	2020-2021	2021-2022	2022-2023
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	420	180	0	330
High result	0	0	0	0