

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	2021-2022	2022-2023	2023-2024	2024-2025
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	50.3	29.3	35.82	6
Highest result	120	206	225	150

EPL 11468

Effluent Quality Monitoring - Point 3 - Yearly frequency

Date		2021-2022	2022-2023	2023-2024	2024-2025
Conductivity	µS/cm	15900	13900	18500	20500
Nitrogen - total	mg/L	1340	1390	1630	1850
pH	pH	8.07	8.15	8.16	8.11
Phosphorus - total	mg/L	32.6	17.5	19.8	22.8
Sodium Adsorption Ratio		10.1	20.8	16.8	19.9

SEP's Waste Monitoring - Point 5 - Yearly frequency

Date		2021-2022	2022-2023	2023-2024	2024-2025
Nitrogen - total	mg/kg	25500	12800	34800	19200
Phosphorus - total	mg/kg	42300	34100	115000	27700
Potassium	mg/kg	2450	5540	8930	8510
Sodium	mg/kg	375	2800	4020	3930

Groundwater monitoring - Yearly frequency

Point 7 (DHG2)

Date		2021-2022	2022-2023	2023-2024	2024-2025
Ammonia	mg/L	<0.01	<0.01	0.14	0.03
Conductivity	µS/cm	3600	3500	3700	3500
Nitrate	mg/L	1.7	1.9	1.6	1.5
pH	pH	7.8	7.1	7.8	7.2
Standing Water Level	M	24	20	25	33

Point 10 (DHG5)

Date		2021-2022	2022-2023	2023-2024	2024-2025
Ammonia	mg/L	0.1	<0.01	0.02	0.05
Conductivity	µS/cm	2700	4100	3700	2000
Nitrate	mg/L	2.7	0.35	0.04	0.05
pH	pH	7.4	7.4	6.9	7.2
Standing Water Level	M	35	34	40	24

Point 11 (DHG6)

Date		2021-2022	2022-2023	2023-2024	2024-2025
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		2021-2022	2022-2023	2023-2024	2024-2025
Aluminium	cmol(+)	<0.1	<0.1	0.05	<0.02
Available Phosphorus	mg/kg	40	31	29	85
Calcium	cmol(+)	2.9	2.7	2.9	3.27
Cation Exchange Capacity	cmol(+)	4.5	4.3	4.4	5.0
Chloride	mg/kg	12	21	6	36
Conductivity	dS/m	0.07	0.11	0.05	0.05
Magnesium	cmol(+)	0.7	0.7	0.7	1.03
Nitrate	mg/kg	6.7	11	7.3	3.8
Nitrogen - total	mg/kg	1900	1500	1700	1900
Organic Carbon	%	2.2	2	2.13	2.15
pH	pH	6.1	5.9	4.7	5.04
Potassium	cmol(+)	0.83	0.88	0.66	0.595
Sodium	cmol(+)	0.03	0.03	0.03	0.02

Point 17 (YS)

Date		2021-2022	2022-2023	2023-2024	2024-2025
Aluminium	cmol(+)	<0.1	<0.1	0.1	<0.02
Available Phosphorus	mg/kg	54	66	47	49
Calcium	cmol(+)	3.2	3	3.04	2.37
Cation Exchange Capacity	cmol(+)	4.6	4.1	3.99	3.4
Chloride	mg/kg	12	17	<5	<5
Conductivity	dS/m	0.08	0.08	0.04	0.04
Magnesium	cmol(+)	0.8	0.7	0.54	0.52
Nitrate	mg/kg	11	11	6.6	5.1
Nitrogen - total	mg/kg	1600	1200	1300	1600
Organic Carbon	%	1.8	1.5	1.64	1.94
pH	pH	6.5	6.3	5.12	4.98
Potassium	cmol(+)	0.55	0.41	0.365	0.42
Sodium	cmol(+)	<0.02	<0.02	<0.02	<0.020

Point 18 (RP)

Date		2021-2022	2022-2023	2023-2024	2024-2025
Aluminium	cmol(+)	<0.1	<0.1	<0.02	<0.02
Available Phosphorus	mg/kg	75	46	53	94
Calcium	cmol(+)	5.4	4.6	3.67	3.87
Cation Exchange Capacity	cmol(+)	7.4	6.4	4.99	5.88
Chloride	mg/kg	13	17	<5	<5
Conductivity	dS/m	0.09	0.1	0.051	0.07
Magnesium	cmol(+)	1.1	0.9	0.633	0.97
Nitrate	mg/kg	6	9.4	8.7	3.7
Nitrogen - total	mg/kg	2000	1300	1400	1800
Organic Carbon	%	2	1.8	1.74	1.96
pH	pH	6.9	6.5	4.97	5.33
Potassium	cmol(+)	0.91	0.88	0.62	0.92
Sodium	cmol(+)	0.03	0.02	0.02	0.04

Point 19 (RE)

Date		2021-2022	2022-2023	2023-2024	2024-2025
Aluminium	cmol(+)	<0.1	<0.1	<0.02	<0.02
Available Phosphorus	mg/kg	7	22	19	26
Calcium	cmol(+)	6.7	5.9	8.21	7.28
Cation Exchange Capacity	cmol(+)	9.8	8.4	11.2	10.1
Chloride	mg/kg	10	24	8	<5
Conductivity	dS/m	0.10	0.07	0.06	0.04
Magnesium	cmol(+)	1.8	1.4	1.6	1.7
Nitrate	mg/kg	16	7	7.6	4.0
Nitrogen - total	mg/kg	1900	1400	2000	2000
Organic Carbon	%	2.2	1.9	2.5	2.5
pH	pH	6.7	6.4	5.53	5.3
Potassium	cmol(+)	1.3	1.1	1.3	1.1
Sodium	cmol(+)	0.03	0.03	0.02	0.02

Point 20 (LI)

Date		2021-2022	2022-2023	2023-2024	2024-2025
Aluminium	cmol(+)	<0.1	<0.1	<0.02	<0.02
Available Phosphorus	mg/kg	35	46	39	56
Calcium	cmol(+)	4.4	5.3	4.19	4.88
Cation Exchange Capacity	cmol(+)	5.9	6.9	5.36	6.25
Chloride	mg/kg	48	27	<5	<5
Conductivity	dS/m	0.11	0.09	0.05	0.05
Magnesium	cmol(+)	0.7	0.9	0.6	0.8
Nitrate	mg/kg	20	13	6.9	6.0
Nitrogen - total	mg/kg	2200	1800	1400	1800
Organic Carbon	%	2.1	2.1	1.76	2.0
pH	pH	6.2	6.4	5.53	5.4
Potassium	cmol(+)	0.64	0.59	0.56	0.48
Sodium	cmol(+)	0.13	0.06	<0.02	<0.02

Soils monitoring - 3 yearly frequency

Point 21 (YP)

Date		2021-2022	2024-2025
Aluminium	cmol(+)	<0.1	<0.02
Available Phosphorus	mg/kg	7	5.7
Calcium	cmol(+)	4.6	7.1
Cation Exchange Capacity	cmol(+)	8.5	10.6
Chloride	mg/kg	<10	14
Conductivity	dS/m	0.04	0.05
Magnesium	cmol(+)	3.2	2.6
Nitrate	mg/kg	2.6	1.6
Nitrogen - total	mg/kg	<500	460
Organic Carbon	%	0.2	0.3
pH	pH	7.4	6.4
Potassium	cmol(+)	0.42	0.71
Sodium	cmol(+)	0.32	0.20

Point 22 (YS)

Date		2021-2022	2024-2025
Aluminium	cmol(+)	<0.1	<0.02
Available Phosphorus	mg/kg	11	<5
Calcium	cmol(+)	3.0	2.4
Cation Exchange Capacity	cmol(+)	5.2	4.4
Chloride	mg/kg	<10	10
Conductivity	dS/m	0.04	0.02
Magnesium	cmol(+)	1.8	1.68
Nitrate	mg/kg	2	3.6
Nitrogen - total	mg/kg	<500	300
Organic Carbon	%	0.2	0.15
pH	pH	7.3	5.8
Potassium	cmol(+)	0.18	0.12
Sodium	cmol(+)	0.15	0.14

Point 23 (RP)

Date		2021-2022	2024-2025
Aluminium	cmol(+)	<0.1	<0.02
Available Phosphorus	mg/kg	5	<5
Calcium	cmol(+)	3.5	3.3
Cation Exchange Capacity	cmol(+)	6.4	5.2
Chloride	mg/kg	<10	17
Conductivity	dS/m	0.03	0.04
Magnesium	cmol(+)	2.5	1.5
Nitrate	mg/kg	2	8.4
Nitrogen - total	mg/kg	<500	300
Organic Carbon	%	0.3	0.2
pH	pH	7.4	5.9
Potassium	cmol(+)	0.20	0.36
Sodium	cmol(+)	0.17	0.07

Point 24 (RE)

Date		2021-2022	2024-2025
Aluminium	cmol(+)	<0.1	<0.02
Available Phosphorus	mg/kg	8	6.5
Calcium	cmol(+)	5.9	5.7
Cation Exchange Capacity	cmol(+)	11.4	8.9
Chloride	mg/kg	<10	21
Conductivity	dS/m	0.04	0.03
Magnesium	cmol(+)	4.8	2.7
Nitrate	mg/kg	4	1.7
Nitrogen - total	mg/kg	<500	460
Organic Carbon	%	0.4	0.36
pH	pH	7.4	5.8
Potassium	cmol(+)	0.45	0.41
Sodium	cmol(+)	0.28	0.12

Point 25 (LI)

Date		2021-2022	2024-2025
Aluminium	cmol(+)	<0.1	<0.02
Available Phosphorus	mg/kg	13	5.5
Calcium	cmol(+)	2.3	1.4
Cation Exchange Capacity	cmol(+)	3.1	1.7
Chloride	mg/kg	<10	7
Conductivity	dS/m	0.02	0.01
Magnesium	cmol(+)	0.6	0.20
Nitrate	mg/kg	1.8	<1.0
Nitrogen - total	mg/kg	<500	300
Organic Carbon	%	<0.2	0.13
pH	pH	7.2	6.4
Potassium	cmol(+)	0.12	0.11
Sodium	cmol(+)	0.04	<0.02

Effluent Volume Monitoring - Monitoring Point 2

Year	2021-2022	2022-2023	2023-2024	2024-2025
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	103	66.9	53.2	81.94
Highest result	375	387	350	387

SEPS Waste Monitoring - Monitoring Point 5

Year	2021-2022	2022-2023	2023-2024	2024-2025
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	0	330	0	1200
High result	0	0	0	0