



Orica Kooragang Island Monitoring Point 31

Details of Licence Conditions

EPA Licence No: 828
 Licensee Name: ORICA AUSTRALIA PTY LTD
 Licensee Address: 75 Greenleaf Rd, KOORAGANG NSW 2304

Annual Summary

Soil Monitoring - Main Transpiration Area

Monitoring Point	Monitoring Location	Pollutant	Unit of measure	Monitoring frequency	Annual Return Period				
					2019/2020 (14/01/2020)	2020/2021 (12/01/2021)	2021/2022 (25/01/2022)	2022/2023 (30/01/2023)	2023/2024 (16/1/2024)
Monitoring Point 31	Main Transpiration Area	Bray phosphorus	milligrams per kilogram	yearly	15.8	50.35	69.85	48.6	12.3
Monitoring Point 31	Main Transpiration Area	Cation Exchange Capacity	centimoles of positive charge per kilogram of soil	yearly	0.8	0.2	0.2	0.9	2.2
Monitoring Point 31	Main Transpiration Area	Chloride	milligrams per kilogram	yearly	15	<10	<10	<10	<10
Monitoring Point 31	Main Transpiration Area	Colwell phosphorus	milligrams per kilogram	yearly	118	176	138	75	136
Monitoring Point 31	Main Transpiration Area	Conductivity	deciSiemens per metre	yearly	0.318	0.092	0.055	0.1155	0.4175
Monitoring Point 31	Main Transpiration Area	Exchangeable calcium	centimoles of positive charge per kilogram of soil	yearly	0.6	0.1	0.1	0.8	1.9
Monitoring Point 31	Main Transpiration Area	Exchangeable magnesium	centimoles of positive charge per kilogram of soil	yearly	0.2	<0.1	<0.1	<0.1	0.2
Monitoring Point 31	Main Transpiration Area	Exchangeable potassium	centimoles of positive charge per kilogram of soil	yearly	<0.1	<0.1	<0.1	<0.1	<0.15
Monitoring Point 31	Main Transpiration Area	Exchangeable sodium	centimoles of positive charge per kilogram of soil	yearly	<0.1	<0.1	<0.1	<0.1	<0.15
Monitoring Point 31	Main Transpiration Area	Moisture	percent	yearly	4.6	6.65	4.1	3.9	2.3
Monitoring Point 31	Main Transpiration Area	Nitrate	milligrams per kilogram	3 years	177	19.1	N/A	N/A	156
Monitoring Point 31	Main Transpiration Area	Nitrogen (total)	milligrams per kilogram	3 years	1185	405	N/A	N/A	450
Monitoring Point 31	Main Transpiration Area	Nitrogen Oxides	milligrams per kilogram	3 years	N/A	19.1	N/A	N/A	117
Monitoring Point 31	Main Transpiration Area	pH	pH	yearly	4.15	3.8	3.95	5.4	5.9
Monitoring Point 31	Main Transpiration Area	Phosphorus (total)	milligrams per kilogram	3 years	332	269.5	N/A	N/A	329
Monitoring Point 31	Main Transpiration Area	Phosphorus Sorption Capacity	milligrams per kilogram	3 years	<250	584	N/A	N/A	302
Monitoring Point 31	Main Transpiration Area	Total Kjeldahl Nitrogen	milligrams per kilogram	3 years	1110	385	N/A	N/A	330
Date Published					14/02/2020	10/02/2021	16/02/2022	14/04/2023	15/03/2024

Note - The reported result is the average of the 2 soil samples collected from between 0-0.3m and 0.3-0.6m as required under Condition M2.4 of the EPL