



Orica Kooragang Island Monitoring Point 31

Details of Licence Conditions

EPA Licence No: 828
 Licensee Name: ORICA AUSTRALIA PTY LTD
 Licensee Address: 15 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				
					2015/2016 (12/01/2016)	2016/2017 (6/2/2017)	2017/2018 (23/01/2018)	2018/2019 (21/01/2019)	2019/2020 (14/01/2020)
Monitoring Point 31	Main Transpiration Area	Bray phosphorus	milligrams per kilogram	yearly	87.75	78.1	64.4	64.2	15.8
Monitoring Point 31	Main Transpiration Area	Cation Exchange Capacity	centimoles of positive charge per kilogram of soil	yearly	0.6	2.0	4.1	0.65	0.8
Monitoring Point 31	Main Transpiration Area	Chloride	milligrams per kilogram	yearly	<10	<10	15	15	15
Monitoring Point 31	Main Transpiration Area	Colwell phosphorus	milligrams per kilogram	yearly	112	57	139	130	118
Monitoring Point 31	Main Transpiration Area	Conductivity	deciSiemens per metre	yearly	0.086	0.132	0.178	0.1955	0.318
Monitoring Point 31	Main Transpiration Area	Exchangeable calcium	centimoles of positive charge per kilogram of soil	yearly	0.5	1.4	0.3	0.5	0.6
Monitoring Point 31	Main Transpiration Area	Exchangeable magnesium	centimoles of positive charge per kilogram of soil	yearly	<0.1	0.3	<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	<0.1
Monitoring Point 31	Main Transpiration Area	Exchangeable sodium	centimoles of positive charge per kilogram of soil	yearly	<0.1	0.2	<0.1	<0.1	<0.1
Monitoring Point 31	Main Transpiration Area	Moisture	percent	yearly	5.8	7.3	4.4	3.85	4.6
Monitoring Point 31	Main Transpiration Area	Nitrate	milligrams per kilogram	3 years	N/A	60	64.3	N/A	177
Monitoring Point 31	Main Transpiration Area	Nitrogen (total)	milligrams per kilogram	3 years	N/A	645	730	N/A	1185
Monitoring Point 31	Main Transpiration Area	Nitrogen Oxides	milligrams per kilogram	3 years	N/A	60	64.3	N/A	N/A
Monitoring Point 31	Main Transpiration Area	pH	pH	yearly	4.3	4.2	4.2	2.9	4.15
Monitoring Point 31	Main Transpiration Area	Phosphorus (total)	milligrams per kilogram	3 years	N/A	267	284	N/A	332
Monitoring Point 31	Main Transpiration Area	Phosphorus Sorption Capacity	milligrams per kilogram	3 years	N/A	<250	<250	N/A	<250
Monitoring Point 31	Main Transpiration Area	Total Kjeldahl Nitrogen	milligrams per kilogram	3 years	N/A	585	665	N/A	1110
Date Published					17/03/2016	6/03/2017	9/03/2018	13/05/2019	14/02/2020

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