



Kyogle Landfill Facility Environmental Monitoring Data – 2020/21

64-78 Runnymede Road, Kyogle, NSW 2474
Environmental Protection Licence (EPL) number: 12124

Background

Under the *Protection of the Environment Operations Act 1997*, Kyogle Council must publish or make pollution monitoring data for the Kyogle Landfill Facility available to members of the public. This document summarises the pollution monitoring data for the Kyogle Landfill Facility for the 2020 – 2021 reporting period.

The Environment Protection Licence (EPL) for the Kyogle Landfill Facility outlines how and when pollution must be monitored and the pollution limits which should not be exceeded. A copy of the EPL for the Kyogle Landfill Facility is available from the NSW Environmental Protection Agency's Protection of the Environment Operations Public Register at <https://www.epa.nsw.gov.au/licensing-and-regulation/public-registers/about-prpoeo>.

Environmental Monitoring Data

Leachate

MONITORING POINT 1: Western Leachate Dam (see map for location)										
Pollutant	Unit of measure	Required monitoring frequency	Quarterly results				Summary results			Pollution limit
			July 2020	October 2020	January 2021	April 2021	Min value	Mean value	Max value	
Alkalinity	Milligrams per litre	Quarterly	384							No limit
Ammonia	Milligrams per litre	Quarterly	0.36							No limit
Arsenic	Milligrams per litre	Quarterly	<0.005							No limit
Calcium	Milligrams per litre	Quarterly	61.2							No limit
Chloride	Milligrams per litre	Quarterly	407							No limit
Conductivity	Microsiemens per centimetre	Quarterly	2040							No limit
Dissolved organic carbon	Milligrams per litre	Quarterly	52							No limit
Iron	Milligrams per litre	Quarterly	0.31							No limit
Magnesium	Milligrams per litre	Quarterly	46.4							No limit
Manganese	Milligrams per litre	Quarterly	0.13							No limit

MONITORING POINT 1: Western Leachate Dam (see map for location)										
Pollutant	Unit of measure	Required monitoring frequency	Quarterly results				Summary results			Pollution limit
			July 2020	October 2020	January 2021	April 2021	Min value	Mean value	Max value	
Nitrate	Milligrams per litre	Quarterly	0.08							No limit
Nitrite	Milligrams per litre	Quarterly	0.03							No limit
Nitrogen	Milligrams per litre	Quarterly	7.1							No limit
pH	pH	Quarterly	7.8							No limit
Potassium	Milligrams per litre	Quarterly	76.5							No limit
Sodium	Milligrams per litre	Quarterly	302							No limit
Sulphate	Milligrams per litre	Quarterly	39.1							No limit
Total petroleum hydrocarbons	Micrograms per litre	Quarterly	<100							No limit

MONITORING POINT 2: Eastern Leachate Dam (see map for location)										
Pollutant	Unit of measure	Required monitoring frequency	Quarterly results				Summary results			Pollution limit
			July 2020	October 2020	January 2021	April 2021	Min value	Mean value	Max value	
Alkalinity	Milligrams per litre	Quarterly	209							No limit
Ammonia	Milligrams per litre	Quarterly	0.19							No limit
Arsenic	Milligrams per litre	Quarterly	<0.005							No limit
Calcium	Milligrams per litre	Quarterly	60.3							No limit
Chloride	Milligrams per litre	Quarterly	259							No limit
Conductivity	Microsiemens per centimetre	Quarterly	1380							No limit
Dissolved organic carbon	Milligrams per litre	Quarterly	24							No limit
Iron	Milligrams per litre	Quarterly	0.19							No limit
Magnesium	Milligrams per litre	Quarterly	25.1							No limit
Manganese	Milligrams per litre	Quarterly	0.031							No limit
Nitrate	Milligrams per litre	Quarterly	1.7							No limit
Nitrite	Milligrams per litre	Quarterly	0.06							No limit
Nitrogen	Milligrams per litre	Quarterly	4.5							No limit
pH	pH	Quarterly	7.6							No limit
Potassium	Milligrams per litre	Quarterly	36.3							No limit
Sodium	Milligrams per litre	Quarterly	178							No limit
Sulphate	Milligrams per litre	Quarterly	71.1							No limit
Total petroleum hydrocarbons	Micrograms per litre	Quarterly	<100							No limit

Ground water quality

Ground water monitoring is required to be conducted following the first 24 hour rainfall event exceeding 25 millimetres in each quarterly period. Monitoring results will be published below if monitoring was required during the quarter. If no monitoring results are published below it means that a rainfall event exceeding 25mm in 24 hours did not occur during the quarter.

	July 2020	October 2020	January 2021	April 2021
No. of events during quarter				
Date of first event				

Surface water quality

Surface water monitoring is required to be conducted following the first 24hour rainfall event exceeding 25 millimetres in each quarterly period. Monitoring results will be published below if monitoring was required during the quarter. If no monitoring results are published below it means that a rainfall event exceeding 25mm in 24 hours did not occur during the quarter.

	July 2020	October 2020	January 2021	April 2021
No. of events during quarter				
Date of first event				

Stormwater discharge

Stormwater monitoring is required to be conducted following the first discharge event of each quarter arising from a rainfall event of less than 60 millimetres in total falling over a consecutive 5 day period. Monitoring results will be published below if monitoring was required during the quarter. If no monitoring results are published below it means that a discharge event did not occur after the above described rainfall event during the quarter.

	July 2020	October 2020	January 2021	April 2021
No. of events during quarter				
Date of first event				

Sampling data

Leachate

Key milestones	Quarterly sample			
	July 2020	October 2020	January 2021	April 2021
Date testing conducted	22 July 2020			
Date data obtained	10 August 2020			
Date data published	11 August 2020			

Ground water

Key milestones	Quarterly sample			
	July 2020	October 2020	January 2021	April 2021
Date testing conducted				
Date data obtained				
Date data published				

Surface water

Key milestones	Quarterly sample			
	July 2020	October 2020	January 2021	April 2021
Date testing conducted				
Date data obtained				
Date data published				

Stormwater

Key milestones	Quarterly sample			
	July 2020	October 2020	January 2021	April 2021
Date testing conducted				
Date data obtained				
Date data published				

Kyogle Landfill Facility Monitoring Points (from Appendix 6 of Kyogle Landfill Environmental Management Plan)

