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Teys Australia Southern Property Pty Ltd (Teys Australia Wagga Wagga)

Environmental Monitoring Data Summary

Environmental Protection Licence number 2262

Executive Summary

Teys Australia Wagga Wagga is the holder of Environmental Protection Licence (EPL) 2262. This Licence is administered by the *NSW Environmental Protection Authority (EPA)*, and includes conditions relevant to the site's operation, including environmental monitoring, as is outlined in this report. All environmental monitoring results required under EPL 2262 are submitted to the *EPA* each year in a formal annual return, and interpreted, and submitted to the *NSW Department of Planning and Environment* in an Annual Environmental Management Review (AEMR).

All monitoring specified under EPL 2262 was completed in the 2019/2020 annual reporting period, which covered the period between 6 December 2019 and 5 December 2020.

Nil instances of non – compliance with any of the conditions in EPL 2262 occurred during the reporting period.

Further information is available by contacting the Teys Corporate Environmental team on (07) 3198 9000.

A full copy of EPL 2262 can be obtained on the EPA website from the following URL using the search function for licence number “2262”:

<https://app.epa.nsw.gov.au/prpoeoapp/>

EPA Monitoring Point 1: Effluent quality discharge to irrigation areas.

	<i>Unit of Measure</i>	<i>Monitoring frequency required by licence</i>	<i>Date of sampling</i>	<i>Date data obtained</i>	<i>Sample result</i>
Biochemical Oxygen Demand	(mg/L)	Monthly	4/12/2019	24/12/2019	7
			8/01/2020	24/01/2020	77
			6/2/2020	27/2/2020	10
			4/3/2020	9/4/2020	12
			1/4/2020	23/4/2020	11
			6/5/2020	27/5/2020	6
			3/6/2020	2/7/2020	18
			1/7/2020	28/7/2020	10
			5/8/2020	27/8/2020	11
			2/9/2020	18/9/2020	16
			7/10/2020	26/11/2020	9
			4/11/2020	24/11/2020	15
			2/12/2020	29/12/2020	12
			7/01/2021	16/02/2021	11
			3/02/2021	16/03/2021	224*
			02/03/2021	14/04/2021	18
			01/04/2021	26/04/2021	9
28/04/2021	14/05/2021	5			

*Note: BOD sampled for EPA monitoring point 1 was 224 mg/L when sampled on 03 February 2021 and was found to be higher than discharge limits of 200 mg/L. However, no irrigation of effluent occurred around when the sample was obtained, therefore compliance was maintained.

EPA Monitoring Point 4 - CFA High Irrigation Soil Monitoring Results Summary

	<i>Unit of Measure</i>	<i>Monitoring frequency required by licence</i>	<i>Date of Sampling</i>	<i>Date data obtained</i>	<i>Minimum Value</i>	<i>Mean Value</i>	<i>Maximum Value</i>
Conductivity	(dS/m)	Yearly	03/11/2020	29/01/2021	0.112	0.185	0.307
Exchangeable Calcium	(mg/kg)	Yearly	03/11/2020	29/01/2021	328	865	1690
Exchangeable Magnesium	(mg/kg)	Yearly	03/11/2020	29/01/2021	80	247	548
Exchangeable Potassium	(mg/kg)	Yearly	03/11/2020	29/01/2021	184	365	684
Exchangeable Sodium	(mg/kg)	Yearly	03/11/2020	29/01/2021	193	414	892
Exchangeable Sodium Percentage	Percentage	Yearly	03/11/2020	29/01/2021	12	21	38
Extractable Phosphorus	(mg/kg)	Yearly	03/11/2020	29/01/2021	20	200	405
Nitrate	(mg/kg)	Yearly	03/11/2020	29/01/2021	1	2	4
Nitrogen (total)	(mg/kg)	Yearly	03/11/2020	29/01/2021	194	497	917
pH	pH	Yearly	03/11/2020	29/01/2021	8	9	10
Phosphorus (total)	(mg/kg)	Yearly	03/11/2020	29/01/2021	70	316	650
Phosphorus Sorption Capacity	(mg/kg)	Yearly	03/11/2020	29/01/2021	143	235	433
Total Organic	(mg/kg)	Yearly	03/11/2020	29/01/2021	1300	3791	7800

Carbon							
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EPA Monitoring Point 6 - CFA Low Irrigation Soil Monitoring Results Summary

	<i>Unit of Measure</i>	<i>Monitoring frequency required by licence</i>	<i>Date of Sampling</i>	<i>Date data obtained</i>	<i>Minimum Value</i>	<i>Mean Value</i>	<i>Maximum Value</i>
Conductivity	(dS/m)	Yearly	03/11/2020	29/01/2021	0.125	0.403	1.420
Exchangeable Calcium	(mg/kg)	Yearly	03/11/2020	29/01/2021	598	1329	2280
Exchangeable Magnesium	(mg/kg)	Yearly	03/11/2020	29/01/2021	305	839	1592
Exchangeable Potassium	(mg/kg)	Yearly	03/11/2020	29/01/2021	26	150	366
Exchangeable Sodium	(mg/kg)	Yearly	03/11/2020	29/01/2021	143	1554	4853
Exchangeable Sodium Percentage	Percentage	Yearly	03/11/2020	29/01/2021	4	26	54
Extractable Phosphorus	(mg/kg)	Yearly	03/11/2020	29/01/2021	26	150	366
Nitrate	(mg/kg)	Yearly	03/11/2020	29/01/2021	4	27	76
Nitrogen (total)	(mg/kg)	Yearly	03/11/2020	29/01/2021	452	923	2000
pH	pH	Yearly	03/11/2020	29/01/2021	7.7	8.5	9.2
Phosphorus (total)	(mg/kg)	Yearly	03/11/2020	29/01/2021	25	353	750
Phosphorus Sorption Capacity	(mg/kg)	Yearly	03/11/2020	29/01/2021	175	273	435

Total Organic Carbon	(mg/kg)	Yearly	03/11/2020	29/01/2021	4300	9160	19000
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EPA Monitoring Point 7 (Effluent discharge to 59 Hillary St, Wagga Wagga)

No data available as no discharge to this area.

EPA Monitoring Point 9 Piezometer 1 CFA High Irrigation Area

	<i>Unit of Measure</i>	<i>Frequency</i>	<i>Date of sample</i>	<i>Date data received</i>	<i>Result</i>
Electrical Conductivity	(μ S/cm)	Yearly during discharge	04/11/2020	29/01/2021	1610
Nitrate	(mg/L)	Yearly during discharge	04/11/2020	29/01/2021	15
pH	pH	Yearly during discharge	04/11/2020	29/01/2021	7.3
Standing Water Level*	m (Australian Height Datum)	Yearly during discharge	04/11/2020	29/01/2021	10.8

*all levels below ground level

EPA Monitoring Point 10 - Piezometer 5 CFA High Irrigation Area

	<i>Unit of Measure</i>	<i>Frequency</i>	<i>Date of sample</i>	<i>Date data received</i>	<i>Result</i>
Electrical Conductivity	(μ S/cm)	Yearly during discharge	04/11/2020	29/01/2021	864
Nitrate	(mg/L)	Yearly during discharge	04/11/2020	29/01/2021	39
pH	pH	Yearly during discharge	04/11/2020	29/01/2021	6.8

		discharge			
Standing Water Level*	m (Australian Height Datum)	Yearly during discharge	04/11/2020	29/01/2021	6.3

*all levels below ground level

EPA Monitoring Point 11 - Piezometer 7 CFA Low Irrigation Area

	<i>Unit of Measure</i>	<i>Frequency</i>	<i>Date of sample</i>	<i>Date data received</i>	<i>Result</i>
Electrical Conductivity	(μ S/cm)	Yearly during discharge	04/11/2020	29/01/2021	2350
Nitrate	(mg/L)	Yearly during discharge	04/11/2020	29/01/2021	<1
pH	pH	Yearly during discharge	04/11/2020	29/01/2021	7.4
Standing Water Level*	m (Australian Height Datum)	Yearly during discharge	04/11/2020	29/01/2021	7.9

*all levels below ground level

EPA Monitoring Point 12 - Piezometer 8 CFA Low Irrigation Area

	<i>Unit of Measure</i>	<i>Frequency</i>	<i>Date of sample</i>	<i>Date data received</i>	<i>Result</i>
Electrical Conductivity	(μ S/cm)	Yearly during discharge	04/11/2020	29/01/2021	1060
Nitrate	(mg/L)	Yearly during discharge	04/11/2020	29/01/2021	<1
pH	pH	Yearly during discharge	04/11/2020	29/01/2021	7.2
Standing Water Level*	m (Australian Height Datum)	Yearly during discharge	04/11/2020	29/01/2021	7.8

*all levels below ground level

EPA Monitoring Point 14 - Piezometer 9 CFA Low Irrigation Area

	<i>Unit of Measure</i>	<i>Frequency</i>	<i>Date of sample</i>	<i>Date data received</i>	<i>Result</i>
Electrical Conductivity	(μ S/cm)	Yearly during discharge	04/11/2020	29/01/2021	2200
Nitrate	(mg/L)	Yearly during discharge	04/11/2020	29/01/2021	5
pH	pH	Yearly during discharge	04/11/2020	29/01/2021	7.3
Standing Water Level*	m (Australian Height Datum)	Yearly during discharge	04/11/2020	29/01/2021	7.2

*all levels below ground level

