



Canowindra Sewage Treatment Plant EPL No. 1750 Monitoring Results

Reporting Period: 1/5/2021-30/4/2022

Canowindra Sewage Treatment Plant Complaints for the reporting month
Monitoring Results

Number of complaints	0
Pollution complaint category	0
Air	0
Water	0
Noise	0
Waste	0
Other	0

Discharge & Monitoring Point 1

Discharge to waters discharge quality monitoring, discharge from maturation pond into channel leading to Belubula River.

Monitoring Results – Water Quality Monitoring

Pollutant	Units of measure	MAY	JUNE	27.7.2021 WN210850-4-002	10.8.2021 WN2108978-002	20.09.21 WN2110816	26.10.21 WN2112438	24.11.21 WN2113699-001	06.12.21 WN2114248-001	JANUARY	14.02.22 WN2201723-001	MARCH	APRIL	Limits
BOD	mg/L	NIL DISCHARGE	NIL DISCHARGE	7	7	5	19	11	11	NIL DISCHARGE	8	NIL DISCHARGE	NIL DISCHARGE	30
Faecal Coliforms	mg/L	NIL DISCHARGE	NIL DISCHARGE	470	<100	~45	~300	~45	~<100	NIL DISCHARGE	<1000	NIL DISCHARGE	NIL DISCHARGE	600
Nitrogen (total)	mg/L	NIL DISCHARGE	NIL DISCHARGE	27.4	21.5	16.3	20.5	6.8	9.7	NIL DISCHARGE	3.7	NIL DISCHARGE	NIL DISCHARGE	30
Oil & Grease	mg/L	NIL DISCHARGE	NIL DISCHARGE	2	<2	<2	<2	<2	<2	NIL DISCHARGE	<2	NIL DISCHARGE	NIL DISCHARGE	10
PH	pH	NIL DISCHARGE	NIL DISCHARGE	7.76	7.91	7.66	7.97	8.55	7.8	NIL DISCHARGE	7.42	NIL DISCHARGE	NIL DISCHARGE	6.5-8.5
Phosphorus (total)	mg/L	NIL DISCHARGE	NIL DISCHARGE	5.14	4.32	5.10	5.79	4.15	2.19	NIL DISCHARGE	2.34	NIL DISCHARGE	NIL DISCHARGE	10
TSS	mg/L	NIL DISCHARGE	NIL DISCHARGE	3	6	<5	17	24	23	NIL DISCHARGE	6	NIL DISCHARGE	NIL DISCHARGE	50
Nitrite	mg/L	NIL DISCHARGE	NIL DISCHARGE	0.42	.57		0.75		.51	NIL DISCHARGE	0.14	NIL DISCHARGE	NIL DISCHARGE	
Nitrate	mg/l	NIL DISCHARGE	NIL DISCHARGE	7.14	8.36	4.52	4.9		5.58	NIL DISCHARGE	1.19	NIL DISCHARGE	NIL DISCHARGE	
Conductivity	µs/cm	NIL DISCHARGE	NIL DISCHARGE	689	704	710	667	562	550	NIL DISCHARGE	571	NIL DISCHARGE	NIL DISCHARGE	
Ammonia	mg/L	NIL DISCHARGE	NIL DISCHARGE	16.0	13.4	9.55	8.9	0.93	1.72	NIL DISCHARGE	1.18	NIL DISCHARGE	NIL DISCHARGE	
Exceedance Yes / No		NIL DISCHARGE	NIL DISCHARGE	N	N	N	N	Y	N	NIL DISCHARGE	N	NIL DISCHARGE	NIL DISCHARGE	

Reason for exceedance:

Discharge & Monitoring Point 3: Discharge to utilisation area - Canowindra Golf Club Dam

Reporting Period 1/5/2021-30/4/2022

No of samples required by license: 2 / year

Monitoring Results

Pollutant	Units of Measure	10.8.2021 WN2108978-002	13.12.2021 WN2114636-001	Limits
BOD	mg/L	<2	9	30
Nitrogen (total)	mg/L	19.2	11.1	30
Oil & Grease	mg/L	<2	<2	10
pH	pH	7.64	6.58	6.5-8.5
Phosphorus (total)	mg/L	6.39	4.54	10
Faecal Coliforms	mg/L	<9	~4	600
TSS	mg/L	-		
Sodium Absorption Ratio	mg/L	-	2.16	
Ammonia	mg/L	17.3	2.85	
Exceedance Yes / No		N	N	

Reason for exceedance:

Discharge & Monitoring Point 5 - Effluent quality monitoring, Final Maturation Pond

Reporting Period 1/5/2021-30/4/2022

No of samples required by license: 2 / year (every 6 months)

Monitoring Results

Pollutant	Units of measure	6 monthly results		Limits
		10.8.2021 WN2108978-005	13.12.2021 WN2114636-002	
BOD	mg/L	6	13	30
pH	pH	7.95	8.42	6.5-8.5
Nitrogen (total)	mg/L	21.9	10.9	30
Oil & Grease	mg/L	<2	<2	10
Phosphorus (total)	mg/L	4.29	2.53	10
Sodium Absorption Ratio	mg/L	1.95	1.54	
TSS	mg/L	32	20	
Ammonia	mg/L	13.2	1.20	
Exceedance Yes/No		N	N	

Reason for exceedance:

Monitoring Point 6 – Effluent re-use area, soil monitoring “Cadman Property”

Reporting Period 1/5/2021-30/4/2022

No of samples required by license: 1 / year

Monitoring Results

Pollutant	Units of measure	No of samples required by license	No of samples you collected and analysed	Lowest Sample Value	Mean of Sample	Highest Sample Value
Available Phosphorus	mg/Kg	1/year	1	160	160	160
Conductivity	mS/cm	1/year	2	0.04	0.045	0.05
Exchangeable sodium percentage	%	1/year	1	160	160	160
Nitrate	mg/Kg	1/year	1	.011	.11	.011
pH	pH	1/year	2	7.0	7.35	7.7

Monitoring Point 7 – Effluent re-use area, soil monitoring Canowindra Golf Course/Clyburn Oval

Reporting Period 1/5/2021-30/4/2022

No of samples required by license: 1 / year

Monitoring Results

Pollutant	Units of measure	No of samples required by license	No of samples you collected and analysed	Lowest Sample Value	Mean of Sample	Highest Sample Value
Available Phosphorus	mg/Kg	1/year	2	54	66.5	79
Conductivity	mS/cm	1/year	4	0.11	0.22	0.33
Exchangeable sodium percentage	%	1/year	4	2.6	16.1	13.5
Nitrate	mg/Kg	1/year	2	3.1	6	8.9
pH	pH	1/year	4	7.0	7.6	8.2

Monitoring Point 8 – Belubula River 100m downstream of Discharge Point 1

Reporting Period 1/5/2021-30/4/2022

Monitoring Results – Monthly when discharging

Pollutant	Units of Measure	MAY	June 2021 WN21067 27-001	July 2021 WN21085 04-003 27.7.21	August 2021 WN210897 8-002	20.9.21 WN211081 6-002	OCTOBER	24.11.21 WN2113699 -002	06.12.21 WN2114248 -002	JANUARY	FEBRUARY	15/03/2022 WN2202997 -001	APRIL	Limits
BOD	mg/L	NIL DISCHARGE	<2	2	2	<2	NIL DISCHARGE	2	<2	NIL DISCHARGE	NIL DISCHARGE	<2	NIL DISCHARGE	30
Conductivity	mS/cm	NIL DISCHARGE	888	264	453	613	NIL DISCHARGE	486	570	NIL DISCHARGE	NIL DISCHARGE	975	NIL DISCHARGE	
Faecal Coliforms	CFU /100ml	NIL DISCHARGE	210	280	170	150	NIL DISCHARGE	540	~800	NIL DISCHARGE	NIL DISCHARGE	~600	NIL DISCHARGE	600
Nitrate+ Nitrite (oxidised nitrogen)	mg/L	NIL DISCHARGE	0.22	0.82	0.89	0.28	NIL DISCHARGE			NIL DISCHARGE	NIL DISCHARGE	0.37	NIL DISCHARGE	10
Nitrite	mg/L	NIL DISCHARGE	<0.05	<0.05	<0.05		NIL DISCHARGE		<0.03	NIL DISCHARGE	NIL DISCHARGE		NIL DISCHARGE	
Nitrate	mg/L	NIL DISCHARGE	0.17	0.77	0.84		NIL DISCHARGE		0.35	NIL DISCHARGE	NIL DISCHARGE		NIL DISCHARGE	
Nitrogen (total)	mg/L	NIL DISCHARGE	0.6	1.8	1.5	0.8	NIL DISCHARGE	1.6	1.0	NIL DISCHARGE	NIL DISCHARGE	0.7	NIL DISCHARGE	30
Oil and Grease	mg/L	NIL DISCHARGE	<2	<2	<2	<2	NIL DISCHARGE	<2	<2	NIL DISCHARGE	NIL DISCHARGE	<2	NIL DISCHARGE	10
pH	pH	NIL DISCHARGE	8.14	7.78	7.91	8.05	NIL DISCHARGE	7.99	7.96	NIL DISCHARGE	NIL DISCHARGE	8.13	NIL DISCHARGE	6.5-8.5
Phosphorus (total)	mg/L	NIL DISCHARGE	0.06	0.18	.15	0.08	NIL DISCHARGE	0.16	0.14	NIL DISCHARGE	NIL DISCHARGE	0.14	NIL DISCHARGE	10
Total suspended solids	mg/L	NIL DISCHARGE	9	103	28	24	NIL DISCHARGE	39	26	NIL DISCHARGE	NIL DISCHARGE	35	NIL DISCHARGE	50
Ammonia	mg/L	NIL DISCHARGE	-	-	0.07	<0.05	NIL DISCHARGE	<0.05	0.05	NIL DISCHARGE	NIL DISCHARGE	<0.05	NIL DISCHARGE	
Exceedance Yes / No		NIL DISCHARGE	N	Y	N	N		N	Y			N	NIL DISCHARGE	

Reason for exceedance: Inclement weather event

Monitoring Point 9 – Belubula River 500m upstream of Discharge Point 1 at Fisherman’s Bend

Reporting Period 1/5/2021-30/4/2022

Monitoring Results – Monthly when discharging

Pollutant	Units of Measure	MAY	June 2021 WN1 0672 7.002	July 2021 WN2108504- 004	August 2021 WN2108978- 004	20.9.21 WN2110816 -003	OCTOBER	24.11.21 WN2113699 -003	06.12.21 WN211424 8-003	JAN	FEB	15/3/22 WN2202997- 002	APRIL	Limits
BOD	mg/L	NIL DISCHARGE	<2	2	2	<2	NIL DISCHARGE	2	2	NIL	NIL	<2	NIL DISCHARGE	30
Conductivity	mS/cm	NIL DISCHARGE	872	257	450	613	NIL DISCHARGE	492	582	NIL	NIL	977	NIL DISCHARGE	
Faecal Coliforms	CFU/100 ml	NIL DISCHARGE	130	770	120	140	NIL DISCHARGE	240	~300	NIL	NIL	~500	NIL DISCHARGE	600
Nitrate+Nitrite	mg/L	NIL DISCHARGE	0.22	0.79	0.86	0.26	NIL DISCHARGE			NIL	NIL	0.36	NIL DISCHARGE	
Nitrite	mg/L	NIL DISCHARGE	<0.05	<0.05	<0.05		NIL DISCHARGE		<0.03	NIL	NIL		NIL DISCHARGE	
Nitrate	mg/L	NIL DISCHARGE	0.17	0.74	0.81		NIL DISCHARGE		0.37	NIL	NIL		NIL DISCHARGE	
Nitrogen (ammonia)	mg/L	NIL DISCHARGE	<0.05	0.05	<0.05	<0.05	NIL DISCHARGE	<0.05	<0.05	NIL	NIL	<0.05	NIL DISCHARGE	
Nitrogen (total)	mg/L	NIL DISCHARGE	0.6	1.8	1.3	0.8	NIL DISCHARGE	1.3	1.1	NIL	NIL	0.8	NIL DISCHARGE	30
Oil and Grease	mg/L	NIL DISCHARGE	<2	<2	<2	<2	NIL DISCHARGE	<2	<2	NIL	NIL	<2	NIL DISCHARGE	10
pH	pH	NIL DISCHARGE	8.19	7.76	7.92	8.06	NIL DISCHARGE	7.94	7.97	NIL	NIL	8.11	NIL DISCHARGE	6.5-8.5
Total Phosphorus	mg/L	NIL DISCHARGE	0.06	0.16	0.09	0.06	NIL DISCHARGE	0.16	0.10	NIL	NIL	0.16	NIL DISCHARGE	10
Total Suspended Solids (TSS)	mg/L	NIL DISCHARGE	8	92	27	21	NIL DISCHARGE	50	41	NIL	NIL	36	NIL DISCHARGE	50
Sodium Absorption Ratio		NIL DISCHARGE	-	-	0.93	1.02	NIL DISCHARGE	0.90	0.87	NIL	NIL	1.22	NIL DISCHARGE	
Exceedance Yes / No			N	Y	N	N		Y	N			Y		

Reason for Exceedance: Inclement weather event

B3 VOLUME OR MASS MONITORING SUMMARY

Reporting Period 1/5/2021-30/4/2022

Discharge & Monitoring Point 1

Discharge to waters Discharge quality monitoring – Daily during discharge

Unit of Measure	AUG 2021	Sept 2021	Oct 2021	Nov 2021	Dec 2021	Jan 2022	Feb 2022	Mar 2022
Total KI per month	17052	11861	5455	19609	8870	0	0	0

Reason for exceedance:

Discharge & Monitoring Point 2

Volume monitoring – Downstream of humus tank - Daily during discharge

Month	No of measurements	Low (KL)	Mean (KL)	High (KL)
May	Nil DISCHARGE			
June	Nil DISCHARGE			
July	Nil DISCHARGE			
August	31	287	627	1897
September	30	341	571	1110
October	31	442	563	1439
November	30	22	733	1975
December	31	404	552	902
January	31	0	644	1423
February	28	NIL DISCHARGE	NIL DISCHARGE	NIL DISCHARGE
March	31	NIL DISCHARGE	NIL DISCHARGE	NIL DISCHARGE
April	30	NIL DISCHARGE	NIL DISCHARGE	NIL DISCHARGE

Discharge & Monitoring Point 4

Discharge to utilisation area

Volume monitoring–Cadman Property – Daily during discharge

Month	No of measurements	Low (KL)	Mean (KL)	High (KL)
May	NIL DISCHARGE	0	0	0
June	NIL DISCHARGE	0	0	0
July	NIL DISCHARGE	0	0	0
August	NIL DISCHARGE	0	0	0
September	NIL DISCHARGE	0	0	0
October	NIL DISCHARGE	0	0	0
November	NIL DISCHARGE	0	0	0
December	NIL DISCHARGE	0	0	0
January	NIL DISCHARGE	0	0	0
February	NIL DISCHARGE	0	0	0
March	NIL DISCHARGE	0	0	0
April	NIL DISCHARGE	0	0	0