

Licencee Name: Loop Organics Pty Ltd
 Facility Address: 74 Lemington Rd, Ravensworth
 EPL No.: EPL 20892

EPA Identification No.			2		2		2		2	
Description			Leachate Dam		Leachate Dam		Leachate Dam		Leachate Dam	
Monitoring frequency			Quarterly		Quarterly		Quarterly		Quarterly	
Date sample collected			8/7/2018		11/27/2018		2/8/2019		5/15/2019	
Time			4:00 PM		5:30 PM		3:00 PM		4:00 PM	
Date data obtained			8/30/2018		7/12/2018 & 19/12/2018		2/21/2019		6/5/2019	
Date data published			9/25/2018		12/31/2018		3/6/2019		6/12/2019	
Pollutant	Units	Pollution conc. Limits	Measured Conc.	Exceedance (Y/N or N/A)	Measured Conc.	Exceedance (Y/N or N/A)	Measured Conc.	Exceedance (Y/N or N/A)	Measured Conc.	Exceedance (Y/N or N/A)
Alkalinity (CaCO3)	mg/L	N/A	74	N/A	140	N/A	200	N/A	150	N/A
Ammonia	mg/L	N/A	0.068	N/A	0.22	N/A	1.1	N/A	0.073	N/A
Calcium	mg/L	N/A	6.1	N/A	21	N/A	24	N/A	29	N/A
Chloride	mg/L	N/A	20	N/A	22	N/A	37	N/A	43	N/A
EC	mS/cm	N/A	0.28	N/A	0.49	N/A	0.63	N/A	0.59	N/A
Fluoride	mg/L	N/A	1	N/A	0.9	N/A	0.7	N/A	0.5	N/A
Iron	mg/L	N/A	6.6	N/A	1.85	N/A	0.77	N/A	0.59	N/A
Magnesium	mg/L	N/A	12	N/A	16	N/A	16	N/A	22	N/A
Manganese	mg/L	N/A	0.076	N/A	0.034	N/A	0.035	N/A	0.095	N/A
N (total)	mg/L	N/A	5.5	N/A	6.6	N/A	9.4	N/A	15	N/A
pH	pH	N/A	7.5	N/A	8.3	N/A	7.7	N/A	8.7	N/A
Phosphorus	mg/L	N/A	0.2	N/A	2.3		2.1	N/A	4	N/A
PAH	mg/L	N/A	ND	N/A	ND	N/A	ND	N/A	ND	N/A
Potassium	mg/L	N/A	6.6	N/A	8	N/A	11	N/A	17	N/A
Sodium	mg/L	N/A	31	N/A	48	N/A	53	N/A	59	N/A
Sulfate	mg/L	N/A	33	N/A	42	N/A	53	N/A	71	N/A
Total organic carbon	mg/L	N/A	9.1	N/A	10	N/A	70	N/A	79	N/A
Total petroleum hydrocarbons	mg/L	N/A	ND	N/A	ND	N/A	ND	N/A	ND	N/A
Total phenolics	mg/L	N/A	ND	N/A	ND	N/A	ND	N/A	ND	N/A
Total suspended solids	mg/L	N/A	400	N/A	82	N/A	70	N/A	140	N/A

2018 - 2019

ND = Not detected for all analytes in this group.

2019 - 2020

EPA Identification No.			2		2		2		2	
Description			Leachate Dam		Leachate Dam		Leachate Dam		Leachate Dam	
Monitoring frequency			Quarterly		Quarterly		Quarterly		Quarterly	
Date sample collected			8/18/2019		N/A		3/3/2020		5/29/2020	
Time			4:00 PM		N/A		N/A		N/A	
Date data obtained			8/29/2019		N/A		3/19/2020		6/23/2020	
Date data published			9/18/2019		12/9/2019					
Pollutant	Units	Pollution conc. limits	Measured Conc.	Exceedance (Y/N or N/A)	Measured Conc.	Exceedance (Y/N or N/A)	Measured Conc.	Exceedance (Y/N or N/A)	Measured Conc.	Exceedance (Y/N or N/A)
Alkalinity (CaCO3)	mg/L	N/A	250	N/A	No sample collected. Leachate dam level below 5% due to dry weather condition during quarter and leachate not able to be collected.	N/A	280	N/A	250	N/A
Ammonia	mg/L	N/A	5	N/A		N/A	19	N/A	4.5	N/A
Calcium	mg/L	N/A	43	N/A		N/A	330	N/A	42	N/A
Chloride	mg/L	N/A	60	N/A		N/A	83	N/A	110	N/A
EC	mS/cm	N/A	0.85	N/A		N/A	#REF!	N/A	1	N/A
Fluoride	mg/L	N/A	0.8	N/A		N/A	0.4	N/A	0.6	N/A
Iron	mg/L	N/A	2.44	N/A		N/A	#REF!	N/A	0.9	N/A
Magnesium	mg/L	N/A	33	N/A		N/A	890	N/A	36	N/A
Manganese	mg/L	N/A	0.29	N/A		N/A	#REF!	N/A	0.09	N/A
N (total)	mg/L	N/A	7.2	N/A		N/A	33	N/A	15	N/A
pH	pH	N/A	7.9	N/A		N/A	7.8	N/A	7.3	N/A
Phosphorus	mg/L	N/A	1.5	N/A		N/A	0.051	N/A	5.1	N/A
PAH	mg/L	N/A	ND	N/A		N/A	ND	N/A	ND	N/A
Potassium	mg/L	N/A	19	N/A		N/A	630	N/A	37	N/A
Sodium	mg/L	N/A	73	N/A		N/A	11200	N/A	86	N/A
Sulfate	mg/L	N/A	95	N/A		N/A	88	N/A	80	N/A
Total organic carbon	mg/L	N/A	40	N/A		N/A	120	N/A	110	N/A
Total petroleum hydrocarbons	mg/L	N/A	ND	N/A		N/A	ND	N/A	ND	N/A
Total phenolics	mg/L	N/A	ND	N/A	N/A	ND	N/A	ND	N/A	
Total suspended solids	mg/L	N/A	17	N/A	N/A	21	N/A	72	N/A	

ND = Not detected for all analytes in this group.

2020 - 2021

EPA Identification No.			2		2		2		2	
Description			Leachate Dam		Leachate Dam		Leachate Dam		Leachate Dam	
Monitoring frequency			Quarterly		Quarterly		Quarterly		Quarterly	
Date sample collected			8/25/2020		12/3/2020		2/11/2021		4/26/2021	
Time			10:00 AM		10:00 AM		10:00 AM		10:00 AM	
Date data obtained			9/11/2020		12/14/2020		2/23/2021		5/5/2021	
Date data published			9/18/2020		12/31/2020		3/8/2021		5/12/2021	
Pollutant	Units	Pollution conc. limits	Measured Conc.	Exceedance (Y/N or N/A)	Measured Conc.	Exceedance (Y/N or N/A)	Measured Conc.	Exceedance (Y/N or N/A)	Measured Conc.	Exceedance (Y/N or N/A)
Alkalinity (CaCO3)	mg/L	N/A	340	N/A	210	N/A	190	N/A	260	N/A
Ammonia	mg/L	N/A	10	N/A	3	N/A	2.7	N/A	5.4	N/A
Calcium	mg/L	N/A	66	N/A	53	N/A	45	N/A	89	N/A
Chloride	mg/L	N/A	90	N/A	110	N/A	96	N/A	70	N/A
EC	mS/cm	N/A	1.2	N/A	1.4	N/A	1.1	N/A	1.3	N/A
Fluoride	mg/L	N/A	0.4	N/A	0.4	N/A	0.3	N/A	0.3	N/A
Iron	mg/L	N/A	0.41	N/A	0.16	N/A	0.2	N/A	0.00074	N/A
Magnesium	mg/L	N/A	44	N/A	47	N/A	35	N/A	52	N/A
Manganese	mg/L	N/A	0.17	N/A	0.022	N/A	0.032	N/A	0.00008	N/A
N (total)	mg/L	N/A	21	N/A	28	N/A	15	N/A	20	N/A
pH	pH	N/A	7.7	N/A	8.1	N/A	7.7	N/A	8.5	N/A
Phosphorus	mg/L	N/A	13	N/A	3.6	N/A	2.6	N/A	6.7	N/A
PAH	mg/L	N/A	ND	N/A	ND	N/A	ND	N/A	ND	N/A
Potassium	mg/L	N/A	40	N/A	48	N/A	36	N/A	52	N/A
Sodium	mg/L	N/A	110	N/A	140	N/A	120	N/A	120	N/A
Sulfate	mg/L	N/A	140	N/A	230	N/A	260	N/A	130	N/A
Total organic carbon	mg/L	N/A	110	N/A	140	N/A	100	N/A	92	N/A
Total petroleum hydrocarbons	mg/L	N/A	ND	N/A	ND	N/A	ND	N/A	ND	N/A
Total phenolics	mg/L	N/A	ND	N/A	ND	N/A	ND	N/A	ND	N/A
Total suspended solids	mg/L	N/A	17	N/A	150	N/A	61	N/A	69	N/A

ND = Not detected for all analytes in this group.

2021 - 2022

EPA Identification No.			2		2		2		2	
Description			Leachate Dam		Leachate Dam		Leachate Dam		Leachate Dam	
Monitoring frequency			Quarterly		Quarterly		Quarterly		Quarterly	
Date sample collected			7/13/2021		11/15/2021		2/11/2022		6/8/2022	
Time			10:00 AM		10:00 AM		10:00 AM		10:00 AM	
Date data obtained			8/11/2021		11/24/2021		3/4/2022		6/17/2022	
Date data published			10/12/2021		11/24/2021		4/28/2022		7/21/2022	
Pollutant	Units	Pollution conc. limits	Measured Conc.	Exceedance (Y/N or N/A)	Measured Conc.	Exceedance (Y/N or N/A)	Measured Conc.	Exceedance (Y/N or N/A)	Measured Conc.	Exceedance (Y/N or N/A)
Alkalinity (CaCO3)	mg/L	N/A	260	N/A	230	N/A	350	N/A	400	N/A
Ammonia	mg/L	N/A	2.3	N/A	17	N/A	5.2	N/A	3.4	N/A
Calcium	mg/L	N/A	52	N/A	57	N/A	53	N/A	74	N/A
Chloride	mg/L	N/A	95	N/A	77	N/A	120	N/A	82	N/A
EC	mS/cm	N/A	1.1	N/A	1.2	N/A	1.2	N/A	1.2	N/A
Fluoride	mg/L	N/A	0.2	N/A	0.3	N/A	0.4	N/A	0.3	N/A
Iron	mg/L	N/A	0.68	N/A	1.4	N/A	0.6	N/A	1.1	N/A
Magnesium	mg/L	N/A	44	N/A	36	N/A	43	N/A	41	N/A
Manganese	mg/L	N/A	0.097	N/A	0.087	N/A	0.052	N/A	0.15	N/A
N (total)	mg/L	N/A	13	N/A	31	N/A	27	N/A	21	N/A
pH	pH	N/A	8.6	N/A	7.8	N/A	8	N/A	8.7	N/A
Phosphorus	mg/L	N/A	2.3	N/A	4.7	N/A	4.3	N/A	5.1	N/A
PAH	mg/L	N/A	ND	N/A	ND	N/A	ND	N/A	ND	N/A
Potassium	mg/L	N/A	50	N/A	39	N/A	46	N/A	41	N/A
Sodium	mg/L	N/A	120	N/A	100	N/A	130	N/A	110	N/A
Sulfate	mg/L	N/A	162	N/A	100	N/A	79	N/A	26	N/A
Total organic carbon	mg/L	N/A	100	N/A	130	N/A	120	N/A	97	N/A
Total petroleum hydrocarbons	mg/L	N/A	0.32	N/A	ND	N/A	0.1	N/A	0.49	N/A
Total phenolics	mg/L	N/A	0.011	N/A	ND	N/A	0.032	N/A	0.002	N/A
Total suspended solids	mg/L	N/A	92	N/A	140	N/A	64	N/A	74	N/A

ND = Not detected for all analytes in this group.

2022 - 2023

EPA Identification No.			2		2		2		2	
Description			Leachate Dam		Leachate Dam		Leachate Dam		Leachate Dam	
Monitoring frequency			Quarterly		Quarterly		Quarterly		Quarterly	
Date sample collected			9/12/2022		12/8/2022		4/4/2023		29/6/2023	
Time			10:00 AM		10:00 AM		10:00 AM		10:00 AM	
Date data obtained			10/25/2022		1/6/2023		5/1/2023		10/7/2023	
Date data published			10/26/2022		1/12/2023		5/2/2023		7/11/2023	
Pollutant	Units	Pollution conc. limits	Measured Conc.	Exceedance (Y/N or N/A)	Measured Conc.	Exceedance (Y/N or N/A)	Measured Conc.	Exceedance (Y/N or N/A)	Measured Conc.	Exceedance (Y/N or N/A)
Alkalinity (CaCO3)	mg/L	N/A	440	N/A	280	N/A	240	N/A	270	N/A
Ammonia	mg/L	N/A	12	N/A	2.6	N/A	5.5	N/A	0.9	N/A
Calcium	mg/L	N/A	79	N/A	53	N/A	41	N/A	47	N/A
Chloride	mg/L	N/A	86	N/A	77	N/A	72	N/A	68	N/A
EC	uS/cm	N/A	1300	N/A	980	N/A	840	N/A	970	N/A
Fluoride	mg/L	N/A	0.3	N/A	0.4	N/A	0.3	N/A	0.4	N/A
Iron	mg/L	N/A	0.64	N/A	3	N/A	0.43	N/A	0.83	N/A
Magnesium	mg/L	N/A	40	N/A	29	N/A	24	N/A	28	N/A
Manganese	mg/L	N/A	0.18	N/A	0.27	N/A	0.088	N/A	0.13	N/A
N (total)	mg/L	N/A	31	N/A	17	N/A	18	N/A	9.4	N/A
pH	pH	N/A	7.5	N/A	7.3	N/A	8	N/A	8.3	N/A
Phosphorus	mg/L	N/A	5.7	N/A	8.4	N/A	3.4	N/A	3	N/A
PAH	mg/L	N/A	ND	N/A	ND	N/A	ND	N/A	ND	N/A
Potassium	mg/L	N/A	37	N/A	34	N/A	37	N/A	40	N/A
Sodium	mg/L	N/A	110	N/A	98	N/A	81	N/A	93	N/A
Sulfate	mg/L	N/A	53	N/A	51	N/A	73	N/A	40	N/A
Total organic carbon	mg/L	N/A	130	N/A	110	N/A	72	N/A	57	N/A
Total petroleum hydrocarbons (TPH)	mg/L	N/A	ND	N/A	ND	N/A	ND	N/A	ND	N/A
Total phenolics (phenols)	mg/L	N/A	ND	N/A	ND	N/A	ND	N/A	ND	N/A
Total suspended solids	mg/L	N/A	67	N/A	270	N/A	45	N/A	52	N/A

ND = Not detected for all analytes in this group.

2023 - 2024	EPA Identification No.		2		2		2		2		
	Description		Leachate Dam		Leachate Dam		Leachate Dam		Leachate Dam		
	Monitoring frequency		Quarterly		Quarterly		Quarterly		Quarterly		
	Date sample collected		25/09/2023		2/2/2024		4/30/2024		17/07/2024		
	Time		10:00 AM		10:00 AM		10:00 AM		10:00 AM		
	Date data obtained		12/10/2023		20/02/2024		5/13/2024				
	Date data published		13/10/2023		20/02/2024		5/15/2024				
	Pollutant	Units	Pollution	Measured	Exceedance	Measured	Exceedance	Measured	Exceedance	Measured	Exceedance
	Alkalinity (CaCO3)	mg/L	N/A	360	N/A	390	N/A	340	N/A	320	N/A
	Ammonia	mg/L	N/A	13	N/A	0.58	N/A	2.4	N/A	3.2	N/A
	Calcium	mg/L	N/A	60	N/A	56	N/A	170	N/A	93	N/A
	Chloride	mg/L	N/A	100	N/A	180	N/A	61	N/A	210	N/A
	EC	uS/cm	N/A	1300	N/A	1500	N/A	1300	N/A	1500	N/A
	Fluoride	mg/L	N/A	0.5	N/A	0.5	N/A	0.3	N/A	0.3	N/A
	Iron	mg/L	N/A	1	N/A	0.18	N/A	0.35	N/A	0.73	N/A
	Magnesium	mg/L	N/A	34	N/A	44	N/A	35	N/A	54	N/A
	Manganese	mg/L	N/A	0.18	N/A	0.045	N/A	0.11	N/A	0.15	N/A
	N (total)	mg/L	N/A	180	N/A	13	N/A	20	N/A	17	N/A
	pH	pH	N/A	7.7	N/A	9.1	N/A	7.7	N/A	8	N/A
	Phosphorus	mg/L	N/A	5.2	N/A	1.9	N/A	3.5	N/A	4	N/A
	PAH	mg/L	N/A	ND	N/A	ND	N/A	ND	N/A		N/A
	Potassium	mg/L	N/A	52	N/A	80	N/A	84	N/A	130	N/A
	Sodium	mg/L	N/A	120	N/A	150	N/A	120	N/A	190	N/A
Sulfate	mg/L	N/A	52	N/A	95	N/A	150	N/A	150	N/A	
Total organic carbon	mg/L	N/A	81	N/A	91	N/A	89	N/A	130	N/A	
Total petroleum hydrocarbons (TPH)	mg/L	N/A	ND	N/A	ND	N/A			ND	N/A	
TRH C6 - C9	mg/L	N/A					ND	N/A	ND	N/A	
TRH C10 - C14	mg/L	N/A					0.15	N/A	ND	N/A	
TRH C15 - C28	mg/L	N/A					1.6	N/A	0.58	N/A	
TRH C29 - C36	mg/L	N/A					0.78	N/A	0.48	N/A	
Total phenolics (phenols)	mg/L	N/A	ND	N/A	ND	N/A	ND	N/A	ND	N/A	
Total suspended solids	mg/L	N/A	33	N/A	55	N/A	39	N/A	29	N/A	

ND = Not detected for all analytes in this group.

Disclaimer -This monitoring data has been made available to meet the requirements of Section 66(6) of the Protection of the Environment Operations Act 1997 and NSW EPA

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