KOOTINGAL LANDFILL - YEARLY SUMMARY FOR 2017/18

LICENCE PERIOD: 17th Oct 2017 - 16th Oct 2018

POINT 1 - Surface Water NOTE: Monitoring Frequency - Special Frequency

Sample Date	Alkalinity	Calcium	Chloride	Chromium	Conductivity	Dissolved Oxygen	Fluoride	Iron	Magnesium	Manganese	Nitrate	Nitrite	Ammonia	OC/OP	pH	Potassium	Sodium	Sulphate	Temperature	TKN	TOC	Total Phenolics	TSS	Volumteric Flow Rate	Zinc
	mg/L	mg/L	mg/L	mg/L	mS/cm	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	ug/L	pH Units	mg/L	mg/L	mg/L	oC	mg/L	mg/L	ug/L	mg/L	kL/day	mg/L
13/12/2017	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
14/03/2018	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
27/06/2018	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
12/09/2018	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY

POINT 2 - Leachate NOTE: Monitoring Frequency - Quarterly

Sample Date	Alkalinity	Calcium	Chloride	Chromium	Conductivity	Dissolved Oxygen	Fluoride	Iron	Magnesium	Manganese	Nitrate	Nitrite	Ammonia	OC/OP	pH	Potassium	Sodium	Sulphate	Temperature	TKN	TOC	Total Phenolics	TSS	Zinc
	mg/L	mg/L	mg/L	mg/L	mS/cm	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	ug/L	pH Units	mg/L	mg/L	mg/L	oC	mg/L	mg/L	ug/L	mg/L	mg/L
13/12/2017	212	54	53	<0.01	0.79	4.1	0.2	2.21	10	0.296	<0.1	<0.1	<0.1	<PQL	7.5	128	26	10	23.5	5.7	46	<0.05	27	<0.005
14/03/2018	201	97	33	<0.01	0.81	6.9	0.2	0.99	13	0.203	<0.1	<0.1	0.1	<PQL	7.8	70	13	209	24.9	4.5	37	<0.05	17	0.007
27/06/2018	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
12/09/2018	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY

POINT 3 - Leachate Overflow NOTE: Monitoring Frequency - Special Frequency

Sample Date	Alkalinity	Calcium	Chloride	Chromium	Conductivity	Dissolved Oxygen	Fluoride	Iron	Magnesium	Manganese	Nitrate	Nitrite	Ammonia	OC/OP	pH	Potassium	Sodium	Sulphate	Temperature	TKN	TOC	Total Phenolics	TSS	Volumteric Flow Rate	Zinc
	mg/L	mg/L	mg/L	mg/L	mS/cm	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	ug/L	pH Units	mg/L	mg/L	mg/L	oC	mg/L	mg/L	ug/L	mg/L	kL/day	mg/L
13/12/2017	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
14/03/2018	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
27/06/2018	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
12/09/2018	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY

POINT 4 - Groundwater Bore NOTE: Monitoring Frequency - Quarterly

Sample Date	Alkalinity	BOD	Calcium	Chloride	Fluoride	Iron	Magnesium	Manganese	Nitrate	Ammonia	OC/OP	pH	Potassium	Sodium	Sulphate	TDS	TOC	Total Phenolics
	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	ug/L	pH Units	mg/L	mg/L	mg/L	mg/L	mg/L	ug/L
13/12/2017	372	<2	83	85	1.4	<0.05	66	0.042	32.5	<0.1	<PQL	6.7	15	87	40	794	10	<0.05
14/03/2018	399	<2	75	77	1.4	<0.05	62	0.069	29.0	<0.1	NA	6.7	12	80	47	781	9	<0.05
27/06/2018	360	<2	81	85	1.3	0.20	59	0.200	40.9	<0.1	NA	6.7	13	77	52	807	6	<0.05
12/09/2018	358	<2	88	85	1.2	0.06	67	0.120	42.0	0.03	NA	6.5	16	74	55	772	9	<0.05

POINT 5 - Groundwater Bore NOTE: Monitoring Frequency - Quarterly

Sample Date	Alkalinity	BOD	Calcium	Chloride	Fluoride	Iron	Magnesium	Manganese	Nitrate	Ammonia	OC/OP	pH	Potassium	Sodium	Sulphate	TDS	TOC	Total Phenolics
	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	ug/L	pH Units	mg/L	mg/L	mg/L	mg/L	mg/L	ug/L
13/12/2017	735	<2	233	325	1.1	0.06	132	5.30	8.2	<0.1	<PQL	6.7	12	262	558	2000	8	<0.05
14/03/2018	742	<2	210	308	1.1	11.9	143	6.98	6.3	<0.1	NA	6.7	12	256	547	2111	9	<0.05
27/06/2018	721	<2	175	288	1.2	2.60	136	6.00	8.7	<0.1	NA	6.8	12	266	484	1937	5	<0.05
12/09/2018	710	<2	213	280	1.0	4.46	133	4.07	7.2	0.1	NA	6.7	15	248	437	1810	7	<0.05

POINT 6 - Groundwater Bore NOTE: Monitoring Frequency - Quarterly

Sample Date	Alkalinity	BOD	Calcium	Chloride	Fluoride	Iron	Magnesium	Manganese	Nitrate	Ammonia	OC/OP	pH	Potassium	Sodium	Sulphate	TDS	TOC	Total Phenolics
	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	ug/L	pH Units	mg/L	mg/L	mg/L	mg/L	mg/L	ug/L
13/12/2017	714	<2	135	133	1.3	<0.05	82	0.57	0.5	<0.1	<PQL	6.8	11	150	85	1026	11	<0.05
14/03/2018	715	<2	115	125	1.4	1.77	80	0.53	<0.1	<0.1	NA	6.7	11	134	72	1063	12	<0.05
27/06/2018	719	<2	106	131	1.3	0.40	82	0.50	<0.1	<0.1	NA	6.8	12	270	73	1067	6	<0.05
12/09/2018	712	<2	133	135	1.2	0.26	82	0.51	0.02	0.07	NA	6.7	12	141	70	1032	11	<0.05

POINT 7 - Groundwater Bore NOTE: Monitoring Frequency - Quarterly

Sample Date	Alkalinity	BOD	Calcium	Chloride	Fluoride	Iron	Magnesium	Manganese	Nitrate	Ammonia	OC/OP	pH	Potassium	Sodium	Sulphate	TDS	TOC	Total Phenolics
	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	ug/L	pH Units	mg/L	mg/L	mg/L	mg/L	mg/L	ug/L
13/12/2017	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
14/03/2018	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
27/06/2018	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
12/09/2018	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY