NAMMOONA LANDFILL FACILITY MONITORING RESULTS
Environmental Protection
Licence No. 5872
Licensee: Richmond Valley Council

Richmond Valley Council

EPA POINT 3:	Leachate Pond Waters																																													
Parameter	**Frequency**	**unit of measure**																																												
Date/ Time sampled			**1/06/2021 14:15**	**18/03/2021 14:30**	**2/12/2020 14:30**	**1/09/2020 13:30**	**15/06/2020 13:30**	**4/03/2019 12:30**	**4/12/2019 14:45**	**11/09/2019 13:30**	**########**	**########**	**14/12/2018 10:00**	**18/09/2018 12:45**	**14/06/2018 10:30**	**27/03/2018 14:15**	**12/12/2017 10:35**	**12/09/2017 14:25**	**15/06/2017 10:30**	**8/03/2017 12:48**	**12/12/2016 9:45**	**22/09/2016 10:10**	**30/06/2016 10:15**	**15/03/2016 11:15**	**3/12/2015 11:30**	**9/09/2015 13:30**	**17/07/2015 9:15**	**31/03/2015 14:00**	**19/12/2014 10:05**	**29/08/2014 7:50**	**6/06/2014 8:35**	**5/03/2014 12:55**												
Sampled by			Adrian Leader	Adrian Leader	Jesse Munro	Jesse Munro	Mitchell Call	Mitchell Call	Mitchell Call	Mitchell Call	Mitchell Call	Mitchell Call	Jesse Munro	Jesse Munro	Mark Bayley	Jesse Munro	Mark Bayley	Mark Bayley	Mark Bayley	Mark Bayley	Mark Bayley	Jesse Muoro	Mark Bayley	Jesse Muoro	Mark Bayley	Jesse Muoro	Jesse Muoro	Mark Bayley	Mark Bayley	Jesse Muoro	Jesse Muoro	Mark Bayley												
Date results received/ Date results published			07/07/2021 12/07/2021	29/04/2021 29/04/2021 (Dissolved Oxygen Published	10/02/2020 11/02/2020	28/09/2020 8/10/2020	26/06/2020 30/07/2020	26/03/2020 30/03/2020	24/1/2020 3/2/2020	15/10/2019 17/10/2019	15/07/2019 17/07/2019	10/04/2019 12/04/2019	8/01/2019 10/1/2019	15/10/2018 26/10/2018	30/07/2018 7/08/2018	2/05/2018 3/05/2018	19/01/2018 25/1/2018	23/10/2017 26/10/2017	5/07/2017 17/7/2018	20/04/2017 15/05/2017	16/01/2017 25/01/2017																										
Ammonia	Quarterly	mg/L	133	33.3	7	32.3	33.7	7.79	164	1.1	12.7	10.6	33.7	42.7	68.2	17.7	10.7	109	15.2	25.1	52.3	50.2	59.6	22.4	42.2	78.4	60.664	24.34	3.233	16.8	84.55	4.65														
Arsenic	Quarterly	mg/L	0.008	0.006	0.034	0.014	0.017	0.014	0.075	0.017	0.013	0.012	0.038	0.022	0.01	0.009	0.016	0.014	<0.001	0.025	0.025	0.011	0.009	0.014	0.01	0.007	0.009	0.009	0.035	0.012	0.016	0.025														
Bicarbonate	Quarterly	mg/L	1096	652	1022	885	900	435	1920	540	688	320	930	1150	980	500	560	1140	400	1000	870	780	800	680	810	970	780	690	490	460	910	540														
Calcium	Quarterly	mg/L	72.6	62.2	25.1	48	51	38	195	32.9	72	106	40.7	55	66	32	43	88	48	33	77	55	57.1	52	67.6	56	61.3	52.9	24.9	61	78	40														
Chloride	Quarterly	mg/L	753	575	1719	1208	1440	533	2750	2074	1879	1028	2261	2080	1213	865	875	1300	610	2353	1605	931	1024	1150	834	898	696	722	1363	811	1015	1308														
Chromium (total)	Quarterly	mg/L	0.013	0.004	0.023	0.011	0.01	0.004	0.071	0.019	0.014	0.012	0.023	0.028	0.014	0.008	0.01	0.025	0.004	0.02	0.024	0.014	0.012	0.012	0.014	0.021	0.012	0.009	0.006	0.004	0.011	0.009														
Conductivity	Quarterly	uS/cm	4820	2645	11700	4853	4030	2970	9920	7860	6665	6330	9127	8270	5435	3380	4156	7062	2892	7654	7395	4490	4820	5310	4648	4870	3180	3520	4710	2750	4600	5310														
Copper	Quarterly	mg/L	0.050	0.001	0.007	0.001	<0.001	0.009	0.009	0.005	0.008	0.008	<0.001	0.002	0.001	0.001	0.001	0.003	0.002	0.001	0.001	<0.001	<0.001	<0.001	0.002	0.006	0.001	0.001	0.000	0.002	0.005	0.001														
Dissolved Organic Carbon	Quarterly	mg/L	113	71	127	148	126	74.3	359	282	178	122	297.9	230	203	97	152	250	95.7	246	190	132	164.1	150	125	154	99.5	108	162.9	118	116	153														
Dissolved Oxygen	Quarterly	mg/L	12.11	7.8	13.2	14.44	10.17	19.2	7.2	15.7	0.99	--	5.65	--	21.9	11.2	4.8	14.5	9.6	16.5	19.2	10.7	5.2	6.61	2.65	6.9	8.9	7.8	10.5	5.98	6.85	7.65														
Magnesium	Quarterly	mg/L	80.6	59.7	139	108	94	69	176	92.3	106	104	124	106	95	60	69	123	51	114	118	75	79	89	79.2	80	70.8	68.1	102	60	100	98														
Nitrogen (total)	Quarterly	mg/L	154	37.7	41.5	53.8	46.7	23.7	272	52	42.1	43.8	67.8	64.6	94.9	35.3	28.8	117	36.1	67.9	93.6	59.4	74.6	41.3	58.7	90.9	89.68	47.18	30.7	31.8	94.8	43.62														
Organochlorine Pesticides	Quarterly	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.1	<0.0001	0.0001	<0.0001	<0.0001	<0.0002	<0.0002	<0.0001	<0.0001	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.2	<0.2	<0.2	<0.2	0	0	0	0	<0.2	<0.2	<0.2														
Organophosphate Pesticides	Quarterly	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.2	<0.0005	<0.0005	<0.0002	<0.0005	<0.0002	<0.0002	<0.0001	<0.0001	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.2	<0.2	<0.2	<0.2	0	0	0	0	<0.2	<0.2	<0.2														
pH	Quarterly	pH	8.29	8.19	9.47	8.89	8.52	8.78	6.76	9.89	8.94	9.14	8.48	8.72	8.75	8.78	8.59	7.69	8.23	8.94	8.73	8.61	8.46	8.46	8.03	8.58	8.97	8.32	9.99	8.61	7.33	8.7														
Phenols	Quarterly	mg/L	<0.0005	<0.5	0.013	0.6015	<0.0005	<0.0005	0.056	0.0007	0.0007	<0.0005	1.6	<0.005	<0.0005	<0.010	<0.002	1.9	<0.001	<0.001	<0.002	0.2	0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2														
Phosphorus	Quarterly	mg/L	0.75	0.25	2.07	0.95	0.53	0.58	5.73	3.68	2.61	1.65	0.63	1.41	0.65	1.0	0.8	0.67	1.66	2.2	2.48	0.53	0.389	0.42	0.4	0.34	2.48	0.59	1.07	1	1.672	2.62														
Potassium	Quarterly	mg/L	116	80.6	378	158	132	78	275	209	181	279	302	154	158	106	132	218	90	254	241	140	141	178	129	145	112	116	188	136	100	152														
Semi-volatile organic carbons	Quarterly	mg/L	<0.0005	71	<0.01	<0.05	ND	<0.05	0.25	<0.0005	<0.0005	<0.0005	<0.05	<0.05	<0.0005	<0.010	<0.002	<1	<5	<1	10	<10	<10	<20	<10	none detected	none detected	nil	none detected	ND	Not detected	none detected														
Sodium	Quarterly	mg/L	599	376	2326	920	794	462	1400	1461	1218	983	1574	1580	822	547	667	995	428	1321	1,145	628	669	771	604	689	512	449	886	493	675	881														
Sulphate	Quarterly	mg/L	77	42	58	98	35	164	65	27	225	690	52	54	<1	42	34	42	61	79	160	22	44	52	53	41	3	18	21	60	51	27														
Total dissolved solids	Quarterly	mg/L	2488	1799	7950	3205	2750	1640	4950	4510	4271	4090	5940	4930	3280	2000	2470	3510	1530	4690	4,010	2465	3275	3611	2397	3312	2591	1900	3090	1745	2640	2810														
Total petroleum hydrocarbons	Quarterly	mg/L	2.27	1.75	8.78	3.85	2.47	1.9	0.93	3.09	7.07	3.1	3.71	2.87	3	<0.050	0.227	0.524	<0.1	4.02	4.61	2070	1730	1290	1560	0.005	2970	1900	3650	5390	4680	4.07														
Volatile organic compounds	Quarterly	mg/L	<0.01	<10	<0.01	<0.01	ND	<0.01	<0.01	<0.01	<0.010	<0.01	<0.01	<0.010	171.2	<0.010	<0.001	<0.01	<0.01	<0.001	<0.001	<10	<1	<1	none detected	none detected	none detected	nil	none detected	none detected	none detected	none detected														

EPA POINT 8	Monitoring Bore MB1																																													
Parameter	**Frequency**	**Trigger level**	**unit of measure**																																											
Date/ Time sampled				**26/03/2021 15:00**	**1/09/2020**	**4/03/2020**	**11/09/2019**	**21/03/2019**		**19/09/2018**	**27/03/2018**	**12/09/2017**	**8/03/2017 12:30**	**22/09/2016**	**15/03/2016 10:42**	**9/09/2015**	**31/03/2015 13:05**	**19/12/2014 9:05**	**3/09/2014 7:00**	**5/03/2014 11:40**																										
Sampled by				Adrian Leader	Jesse Munro	Mitchell Call	Mitchell Call	Mitchell Call		Jesse Munro	Jesse Munro	Mark Bayley	Mark Bayley	Jesse Muoro	Jesse Muoro	Jesse Muoro	Mark Bayley	Jesse Muoro	Jesse Muoro	Mark Bayley																										
Date results received/ Date results published				28/04/2021 29/04/2021	28/09/2020 8/10/2020	26/03/2020 30/03/2020	15/10/2019 17/10/2019	10/04/2019 12/04/2019		15/10/2018 26/10/2018	2/05/2018 3/05/2018	23/10/2017 26/10/2017	20/04/2017 15/05/2017																																		
Ammonia	6 Months	0.62	mg/L	0.124	dry bore	dry bore	dry bore	dry bore		dry bore	dry bore	dry bore	0.205	dry bore	dry bore	dry bore	0.409	0.271	0.047	0.177																										
Dissolved Organic Carbon	6 Months	69.6	mg/L	28.3	dry bore	dry bore	dry bore	dry bore		dry bore	dry bore	dry bore	8.3	dry bore	dry bore	dry bore	16.4	14.1	23.4	2.3																										
Nitrogen (total)	6 Months	4.2	mg/L	1.22	dry bore	dry bore	dry bore	dry bore		dry bore	dry bore	dry bore	0.87	dry bore	dry bore	dry bore	0.46	0.34	0.5	0.32																										
pH	6 Months	5.35-9.25	pH	5.65	dry bore	dry bore	dry bore	dry bore		dry bore	dry bore	dry bore	6.91	dry bore	dry bore	dry bore	6.45	6.82	5.86	6.9																										
Potassium	6 Months	36.9	mg/L	0.5	dry bore	dry bore	dry bore	dry bore		dry bore	dry bore	dry bore	6.7	dry bore	dry bore	dry bore	4.6	8.7	0.8	9.2																										
Total petroleum hydrocarbons C15-C28 Fraction	6 Months	125.8	ug/L	<100	dry bore	dry bore	dry bore	dry bore		dry bore	dry bore	dry bore	<100	dry bore	dry bore	dry bore	<100	<100	<100	<100																										
Total petroleum hydrocarbons C29-C36 Fraction	6 Months	125.8	ug/L	<50	dry bore	dry bore	dry bore	dry bore		dry bore	dry bore	dry bore	<100	dry bore	dry bore	dry bore	<100	<100	<100	<100																										
SWL (BGL) m				0.45	dry bore	dry bore	dry bore	dry bore		dry bore	dry bore	dry bore	5.5	dry bore	dry bore	dry bore	5.44			4.8																										

EPA POINT 9	Monitoring Bore MB2																																													
Parameter	**Frequency**	**Trigger level**	**unit of measure**																																											
Time sampled				**18/03/2021 14:25**	**1/09/2019 13:55**	**4/03/2019 14:30**	**11/09/2019 12:30**	**21/03/2019 13:20**	**12:00**	**13:45**	**13:50**	**15:40**	**8:45**	**10:25**	**13:30**	**14:30**	**10:15**	**8:10**	**12:30**																										
Sampled by				Adrian Leader	Jesse Munro	Mitchell Call	Mitchel Call	Mitchell Call	Jesse Munro	Jesse Munro	Mark Bayley	Mark Bayley	Jesse Muoro	Jesse Muoro	Jesse Muoro	Mark Bayley	Jesse Muoro	Jesse Muoro	Mark Bayley																										
Date results received/ Date results published				29/04/2021 29/04/2021	28/09/2020 8/10/2020	26/03/2020 30/03/2020	15/10/2019 17/10/2019	10/04/2019 12/04/2019	15/10/2018 26/10/2018	2/05/2018 3/05/2018	23/10/2017 26/10/2017	20/04/2017 15/05/2017																																
Ammonia	6 Months	0.26	mg/L	0.171	0.079	0.162	0.147	0.2	0.246	0.458	0.248	0.185	0.105	0.127	0.167	0.317	0.178	0.15	44.889																										
Dissolved Organic Carbon	6 Months	63.4	mg/L	13	3.6	2.9	3.8	3.2	2.6	3.4	4.5	5.2	4	12.3	3.2	12.8	10.6	23.9	9.2																										
Nitrogen (total)	6 Months	3.3	mg/L	1.36	0.27	0.19	0.25	0.24	0.36	0.54	0.4	0.27	0.26	0.21	0.292	0.5	0.37	0.25	48.24																										
pH	6 Months	5.11-9.5	pH	7.09	6.35	6.33	6.42	6.41	6.43	6.62	5.5	7.34	6.26	6.02	6.34	6.51	6.39	6.38	6.39																										
Potassium	6 Months	8.1	mg/L	4.5	4.6	3.41	4.3	4.2	4.4	4.7	4.3	4.5	4.5	4.2	3.4	3.6	4	4.2	8.5																										
Total petroleum hydrocarbons C15-C28 Fraction	6 Months	139.8	ug/L	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100																										
Total petroleum hydrocarbons C29-C36 Fraction	6 Months	139.8	ug/L	<50	<50	<50	<50	<50	<50	<100	<100	<100	<100	<100	<100	<100	<100	<100	520																										
SWL (BGL) m				3.39	3.69	3.79	3.89	3.89	3.57	2.7	3.6	2.1	2.73	3.3	3.45	3.3			2.7																										

EPA POINT 10	Monitoring Bore MB3																																													
Parameter	**Frequency**	**Trigger level**	**unit of measure**																																											
Date/ Time sampled				**18/03/2021 13:55**	**1/09/2019 14:35**	**4/03/2019 12:00**	**11/09/2019 14:20**	**21/03/2019 15:20**	**19/09/2018 13:40**	**27/03/2018 13:30**	**12/09/2017 12:55**	**8/03/2017 14:05**	**22/09/2016 10:40**	**15/03/2016 12:08**	**9/09/2015 14:10**	**31/03/2015 15:18**	**19/12/2014 10:40**	**3/09/2014 8:50**	**5/03/2014 13:05**																										
Sampled by				Adrian Leader	Jesse Munro	Mitchell Call	Mitchel Call	Mitchell Call	Jesse Munro	Jesse Munro	Mark Bayley	Mark Bayley	Jesse Muoro	Jesse Muoro	Jesse Muoro	Mark Bayley	Jesse Muoro	Jesse Muoro	Mark Bayley																										
Date results received/ Date results published				29/04/2021 29/04/2021	28/09/2020 8/10/2020	26/03/2020 30/03/2020	15/10/2019 17/10/2019	10/04/2019 12/04/2019	15/10/2018 26/10/2018	2/05/2018 3/05/2018	23/10/2017 26/10/2017	20/04/2017 15/05/2017																																
Ammonia	6 Months	1.4	mg/L	0.176	0.065	0.168	0.087	0.15	4.59	7.449	0.073	0.473	0.147	2.33	0.124	2.37	0.212	0.295	3.58																										
Dissolved Organic Carbon	6 Months	45.8	mg/L	2.7	3.6	1.7	3.2	5	3.1	1.7	3	6.8	8.7	4	1.7	4.1	6.1	12.2	1.6																										
Nitrogen (total)	6 Months	2.3	mg/L	0.9	0.33	0.3	0.12	0.16	11.1	7.5	1.6	0.9	0.26	2.04	0.93	2.87	0.27	0.38	4.07																										
pH	6 Months	5.54-9.1	pH	7.49	7.3	7.3	7.38	7.32	7.8	7.49	4.76	7.34	6.6	7.38	6.73	6.89	6.61	7.09	6.75																										
Potassium	6 Months	6.9	mg/L	3.8	7	2.88	3.7	3.4	4.7	3.9	3.8	4.6	3.6	4.3	2.8	3.2	3.1	4	3.5																										
Total petroleum hydrocarbons C15-C28 Fraction	6 Months	106.9	ug/L	110	<100	<100	<100	<100	<150	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100																										
Total petroleum hydrocarbons C29-C36 Fraction	6 Months	106.9	ug/L	<50	<50	<50	<50	<50	<50	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100																										
SWL (BGL) m				1.84	1.91	2.43	2.67	2.45	1.51	0.17	0.88	0.7	0.7	1.65	1.88	1.7			0.9																										

EPA POINT 11	Monitoring Bore MB4																																													
Parameter	**Frequency**	**Trigger level**	**unit of measure**																																											
Date sampled				**18/03/2021**	**1/09/2020**	**4/03/2020**	**11/09/2019**	**21/03/2019**	**19/09/2018**	**27/03/2018**	**12/09/2017**	**8/03/2017**	**22/09/2016**	**15/03/2016**	**9/09/2015**	**31/03/2015**	**19/12/2014**	**3/09/2014**	**5/03/2014**																										
Time sampled				**14:05**	**14:50**	**11:45**	**11:45**	**12:20**	**13:55**	**13:30**	**13:15**	**11:38**	**11:00**	**12:30**	**14:45**	**15:40**	**11:00**	**9:30**																												
Sampled by				Adrian Leader	Jesse Munro	Mitchell Call	Mitchel Call	Mitchell Call	Jesse Munro	Jesse Munro	Mark Bayley	Mark Bayley	Jesse Muoro	Jesse Muoro	Jesse Muoro	Mark Bayley	Jesse Muoro	Jesse Muoro	Mark Bayley																										
Date results received/ Date results published				29/04/2021 29/04/2021	28/09/2020 8/10/2020	26/03/2020 30/03/2020	15/10/2019 17/10/2019	10/04/2019 12/04/2019	15/10/2018 26/10/2018	2/05/2018 3/05/2018	23/10/2017 26/10/2017	20/04/2017 15/05/2017																																
Ammonia	6 Months	0.33	mg/L	0.175	0.049	0.098	0.034	0.09	0.07	0.128	0.113	0.063	0.068	0.058	0.035	0.07	0.16	0.031	0.077																										
Dissolved Organic Carbon	6 Months	92.9	mg/L	4.2	1.5	0.5	3	0.8	1.8	0.2	1.8	1.3	2.9	3.3	0.3	3.3	4.4	12.7	0.8																										
Nitrogen (total)	6 Months	1	mg/L	1.49	0.65	0.1	0.01	0.1	0.38	0.13	0.09	0.1	0.12	0.06	0.04	0.18	0.16	0.06	0.11																										
pH	6 Months	4.97-10.3	pH	7.54	6.79	6.72	6.81	6.79	6.9	6.81	5.37	6.97	6.63	5.79	6.61	6.45	6.72	7.41	6.72																										
Potassium	6 Months	8.6	mg/L	4.1	3.5	3.05	3.78	3.6	3.9	3.6	3.8	3.9	4	3.8	2.8	3.4	3.5	1.7	3.3																										
Total petroleum hydrocarbons C15-C28 Fraction	6 Months	50	ug/L	150	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100																										
Total petroleum hydrocarbons C29-C36 Fraction	6 Months	50	ug/L	110	<50	<50	<50	<50	<50	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100																										
SWL (BGL) m				0.62	1.17	1.45	1.46	1.28	0.71	surface	0.58	0.8	surface	0.09	0.42	0.2			1.6																										

EPA POINT 12	Monitoring Bore MB5-A																																													
Parameter	**Frequency**	**Trigger level**	**unit of measure**																																											
Date sampled					**31/03/2015**	**19/12/2014**	**3/09/2014**	**5/03/2014**	**30/08/2013**	**6/03/2013**	**19/09/2012**	**16/08/2012**	**25/05/2012**	**20/03/2012**																														
Time sampled					13:50	9:50	7:40	12:05	10:15	12:40	10:45	9:50	16:00																															
Sampled by					Mark Bayley	Jesse Munro	Jesse Munro	Mark Bayley	Mark Bayley	Mark Bayley	Mark Bayley	Mark Bayley	Mark Bayley	RVC																														
Date results received																																														
Date results published																																														
Ammonia	6 Months	0.15	mg/L		0.089	0.014	0.031	0.007	0.02	0.024	0.031	0.1	0.062	ND																														
Dissolved Organic Carbon	6 Months	40.3	mg/L	**No longer sampled due to access issues - see MB5-B**	3.7	4.4	12.7	1.5	9.7	1.8	2.5	1.4	3.053	ND																														
Nitrogen (total)	6 Months	3	mg/L		0.11	0.18	0.06	0.11	0.09	0.05	0.13	0.35	0.093	ND																														
pH	6 Months	4.9-8.4	pH		6.24	5.94	7.41	6.04	6.08	8.25	6.07	6.06	7.29	ND																														
Potassium	6 Months	4.95	mg/L		1.6	1.7	1.7	1.5	1.7	1.6	2.4	1.6	3.43	ND																														
Total petroleum hydrocarbons C15-C36 Fraction	6 Months	50	ug/L		<100	none detected	none detected	none detected	none detected	<100	none detected	not detected	none detected	ND																														
SWL (BGL) m					0.5			0.6	0.5	0.6	0.8	0.7	1																															

EPA POINT 13	Monitoring Bore MB5-B																																													
Parameter	**Frequency**	**Trigger level**	**unit of measure**																																											
Date sampled				**18/03/2021**	**1/09/2020**	**4/03/2020**	**11/09/2019**	**21/03/2019**	**19/09/2018**	**27/03/2018**	**12/09/2017**	**8/03/2017**	**22/09/2016**	**15/03/2016**	**9/09/2015**																														
Time sampled				**14:45**	**12:15**	**14:00**	**13:00**	**14:40**	12:30

Copper	Event Based	n/a	mg/L	0.005	0.007	0.006	0.006	0.008	0.004	0.007	0.006	0.01	0.029	0.072	0.01	0.01	58.5	28.8	14.1	43.8	17.204	4.723	15.889	5.93																			
Dissolved organic carbon	Event Based	n/a	mg/L	38.6	23.9	47.3	49.9	30.5	13.6	14.6	23.5	11.8	17.9	16.5	36.89	13.49	10.8	10.3	9.6	10.4	7.63	7.46	7.23	7.5																			
Dissolved Oxygen	Event Based	n/a	mg/L	9.7	6.6	5.6	6.8	7.5	9.3	8.1	6.4	8.6	4.8	5.6	10.32	9.90	17.1	12.8	7.4	45.4	32.8	18.3	18.7	18.4																			
Magnesium	Event Based	n/a	mg/L	11.3	4.0	11.7	17.9	14.8	6.25	5.6	14	8.73	7.6	3.4	22.70	3.64	0.313	0.033	0.095	0.038	207	186	330	177																			
Manganese	Event Based	n/a	mg/L	0.085	0.054	0.048	0.45	0.014	0.007	0.052	0.008	0.089	0.028	0.027	0.02	0.03	17.999	3.685	0.581	24.031	135	69.5	72.9	37.8																			
Nitrate	Event Based	n/a	mg/L	0.007	0.313	0.005	0.005	5.34	3.54	2.28	3.96	12.4	1.77	0.378	13.70	1.52	6.33	7.28	7.26	7029	104	89	102	18																			
pH	Event Based	n/a	pH	7.56	7.18	7.07	7.54	7.33	7.2	7.35	7.56	7.46	7.07	7.01	7.60	7.31	26.2	12.9	5.1	32.3		15.4	18.9	18.6																			
Potassium	Event Based	n/a	mg/L	9.88	11.80	9.26	16	18.2	10.8	6.9	15	11.6	7.3	2.4	26.80	9.02	217	238	252	224	18	41	108	54																			
Redox potential	Event Based	n/a	mV	282	219	298	255	291	279				-67	-65	102.00	113.00	81.2	32.5	37.8	130																							
Sodium	Event Based	n/a	mg/L	31.9	14	42.4	46.5	35.1	20.2	9.9	47	23	38.6	19.6	74.20	15.20	47	12	10	162																							
Sulphate	Event Based	n/a	mg/L	22	1	32	61	77	21	20	62	30	34	21	83.10	11.43																											
Temperature	Event Based	n/a	Deg C	–	–	–	–	–	–						18.00	20.00	39	238	196	49																							
Total suspended solids	Event Based	n/a	mg/L	9	166	10	11	6	8	98	4	134	38	36	13.00	82.00																											
EPA Point 6	**Air**																																										
Parameter	**Frequency**	**Limit**	**unit of measure**																																								
Date sampled				**1/06/2021**	**15/06/2020**	**18/06/2019**	**2/07/2018**	**29/06/2017**	**30/06/2016**	**25/06/2015**	**3/09/2014**	**26/06/2013**	**26/06/2012**	**13/12/2011**																													
Time sampled				14.20 - 15.00	13:30-14:00	13:00-13:30	09:00 - 09:30	10:00-10:30																																			
Sampled by				Adrian Leader	Mitchell Call	Mitchell Call	Mark Bayley	Mark Bayley																																			
Date results received				7/07/2021	2/07/2020	4/07/2019	30/07/2018	17/07/2017																																			
Date results published				12/07/2021	3/07/2020	17/07/2019	7/08/2018	17/07/2017																																			
Methane	Annual	n/a	Percent by volume	**Nil detected**	**Nil detected**	**Nil detected**	**Nil detected**	**Nil detected**	**Nil detected**	**Nil detected**	**Nil detected**	**Nil detected**	**Nil detected**	**Nil detected**																													
EPA Point 7	**Air**																																										
Parameter	**Frequency**	**Limit**	**unit of measure**																																								
Date sampled				**1/06/2021**	**15/06/2020**	**18/06/2019**	**2/07/2018**	**29/06/2017**	**30/06/2016**	**25/06/2015**	**3/09/2014**	**26/06/2013**	**26/06/2012**	**13/12/2011**																													
Time sampled				14.20 - 15.00	13:30-14:00	13:00-13:30	09:00 - 09:30	10:00-10:30																																			
Sampled by				Adrian Leader	Mitchell Call	Mitchell Call	Mark Bayley	Mark Bayley																																			
Date results received				7/07/2021	2/07/2020	4/07/2019	30/07/2018	6/07/2017																																			
Date results published				12/07/2021	3/07/2020	17/07/2019	7/08/2018	17/07/2017																																			
Methane	Annual	n/a	Percent by volume	**Nil detected**	**Nil detected**	**Nil detected**	**Nil detected**	**Nil detected**	**Nil detected**	**Nil detected**	**Nil detected**	**Nil detected**	**Nil detected**	**Nil detected**																													