

Pollutant Monitoring Results - Leachate



EPL No:	4068
Entity Name:	Elizabeth Drive Landfill
Site:	1725 Elizabeth Drive, KEMPS CREEK, NSW, 2178
Monitoring Frequency:	Quarterly
Link to NSW EPA Register:	Click Here

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Location Name	EPA Monitoring Point No.	Pollutant	Unit of measure	Frequency	15/03/2023	15/06/2023	18/09/2023		No. of samples required by licence	No. of samples collected and analysed	Lowest Sample Value	Mean Sample Value	Highest Sample Value	Comments
L7	26	Adsorbable Organic Halogens	mg/l	Quarterly	NL	3.6	5.5	NL	4	4	3.6	4.55	5.5	
	26	Alkalinity (as calcium Carbonate)	mg/l	Quarterly	NL	<1	5900	NL	4	4	5900	5900	5900	
	26	Aluminium	mg/l	Quarterly	NL	0.23	0.41	NL	4	4	0.23	0.32	0.41	
	26	Arsenic	mg/l	Quarterly	NL	0.023	0.034	NL	4	4	0.023	0.0285	0.034	
	26	Barium	mg/l	Quarterly	NL	2.56	2.87	NL	4	4	2.56	2.715	2.87	
	26	Benzene	mg/l	Every 6 months	NL	8		NL	2	3	8	8	8	
	26	Bicarbonate	mg/l	Quarterly	NL	5480	5900	NL	4	4	5480	5690	5900	
	26	Biological oxygen Demand	mg/l	Quarterly	NL	83	85	NL	4	4	83	84	85	
	26	Cadmium	mg/l	Quarterly	NL	<0.0010	<0.0010	NL	4	4	0	#DIV/0!	0	
	26	Calcium	mg/l	Quarterly	NL	42	54	NL	4	4	42	48	54	
	26	Chemical Oxygen Demand	mg/l	Yearly	NL	3100		NL	1	3	3100	3100	3100	
	26	Chloride	mg/l	Quarterly	NL	14300	16400	NL	4	4	14300	15350	16400	
	26	Chlorinated Hydrocarbons	mg/l	Every 6 months	NL	5.00		NL	2	3	2	5	5	
	26	Chromium	mg/l	Quarterly	NL	0.17	0.222	NL	4	4	0.17	0.196	0.222	
	26	Conductivity	µS/cm	Quarterly	NL	55800	58000	NL	4	4	55800	56900	58000	
	26	Copper	mg/l	Quarterly	NL	<0.010	<0.010	NL	4	4	0	#DIV/0!	0	
	26	Dissolved Oxygen	mg/l	Quarterly	NL	2.1	3.8	NL	4	4	2.1	2.95	3.8	
	26	Fluoride	mg/l	Quarterly	NL	1.5	1.6	NL	4	4	1.5	1.55	1.6	
	26	Lead	mg/l	Quarterly	NL	<0.010	<0.010	NL	4	4	0	#DIV/0!	0	
	26	Magnesium	mg/l	Quarterly	NL	276	313	NL	4	4	276	294.5	313	
	26	Manganese	mg/l	Quarterly	NL	0.068	0.102	NL	4	4	0.068	0.085	0.102	
	26	Mercury	mg/l	Quarterly	NL	<0.0010	<0.0001	NL	4	4	0	#DIV/0!	0	
	26	Nickel	mg/l	Every 6 months	NL	0.158		NL	2	3	0.158	0.158	0.158	
	26	Nitrate	mg/l	Quarterly	NL	<0.10	<0.10	NL	4	4	0	#DIV/0!	0	
	26	Nitrite	mg/l	Quarterly	NL	<0.10	<0.10	NL	4	4	0	#DIV/0!	0	
	26	Nitrogen (ammonia)	mg/l	Quarterly	NL	98.8	1160	NL	4	4	98.8	629.4	1160	
	26	Nitrogen (Total)	mg/l	Quarterly	NL	987	1250	NL	4	4	987	1118.5	1250	
	26	pH	pH Unit	Quarterly	NL	7.85	7.84	NL	4	4	7.84	7.845	7.85	
	26	Phosphorus (total)	mg/l	Quarterly	NL	18.5	<5.00	NL	4	4	18.5	18.5	18.5	
	26	Polycyclic aromatic hydrocarbons	mg/l	Every 6 months	NL	5.9		NL	2	3	5.9	5.9	5.9	
	26	Potassium	mg/l	Quarterly	NL	2050	2520	NL	4	4	2050	2285	2520	
	26	Redox Potential	mV	Quarterly	NL	108	66.4	NL	4	4	66.4	87.2	108	
	26	Selenium	mg/l	Yearly	NL	<0.10		NL	1	3	0	#DIV/0!	0	
26	Silica	mg/l	Yearly	NL	56.5		NL	1	3	56.5	56.5	56.5		
26	Silver	mg/l	Yearly	NL	<0.010		NL	1	3	0	#DIV/0!	0		
26	Sodium	mg/l	Quarterly	NL	8800	10300	NL	4	4	8800	9550	10300		
26	Sulfate	mg/l	Quarterly	NL	<10	63	NL	4	4	63	63	63		
26	Tin	mg/l	Every 6 months	NL	<0.010		NL	2	3	0	#DIV/0!	0		
26	Total Dissolved Solids	mg/l	Quarterly	NL	30600	35300	NL	4	4	30600	32950	35300		
26	Total Organic Carbon	mg/l	Quarterly	NL	705	1030	NL	4	4	705	867.5	1030		
26	Total Phenolics	mg/l	Quarterly	NL	1.24	0.13	NL	4	4	0.13	0.685	1.24		
26	Zinc	mg/l	Quarterly	NL	<0.052	<0.052	NL	4	4	0	#DIV/0!	0		
					15/03/2023	15/06/2023	18/09/2023	13/12/2023						
	27	Adsorbable Organic Halogens	mg/l	Quarterly	0.95	2.6	4	3.6	4	4	0.95	2.7875	4	
	27	Alkalinity (as calcium Carbonate)	mg/l	Quarterly	335	<1	2200	2490	4	4	335	1675	2490	
	27	Aluminium	mg/l	Quarterly	0.05	0.04	0.02	0.07	4	4	0.02	0.045	0.07	
	27	Arsenic	mg/l	Quarterly	0.063	0.021	0.118	0.098	4	4	0.021	0.075	0.118	
	27	Barium	mg/l	Quarterly	0.078	0.565	0.077	0.738	4	4	0.077	0.3645	0.738	
	27	Benzene	mg/l	Every 6 months	12		9		2	2	9	10.5	12	
	27	Bicarbonate	mg/l	Quarterly	<1	2970	1550	2490	4	4	1550	2336.666667	2970	
	27	Biological oxygen Demand	mg/l	Quarterly	25	60	45	29	4	4	25	39.75	60	
	27	Cadmium	mg/l	Quarterly	<0.0001	<0.0001	0.0002	0.0002	4	4	0.0002	0.0002	0.0002	
	27	Calcium	mg/l	Quarterly	178	332	28	382	4	4	28	230	382	
	27	Chemical Oxygen Demand	mg/l	Yearly		1200			1	1	1200	1200	1200	
	27	Chloride	mg/l	Quarterly	1970	4730	5780	6910	4	4	1970	4847.5	6910	
	27	Chlorinated Hydrocarbons	mg/l	Every 6 months		<0.01		<5	2	2	0	#DIV/0!	0	
	27	Chromium	mg/l	Quarterly	0.001	0.037	0.035	0.048	4	4	0.001	0.03025	0.048	
	27	Conductivity	µS/cm	Quarterly	7360	19000	22700	22500	4	4	7360	17890	22700	

Location Name	EPA Monitoring Point No.	Pollutant	Unit of measure	Frequency	15/03/2023	15/06/2023	18/09/2023		No. of samples required by licence	No. of samples collected and analysed	Lowest Sample Value	Mean Sample Value	Highest Sample Value	Comments
L10	27	Copper	mg/l	Quarterly	<0.001	<0.001	0.008	0.004	4	4	0.004	0.006	0.008	The adsorbable organic halogens sample taken on 15/03/2023 was broken during transportation, a second sample for was taken on the 22/05/2023. 15/6/2023 MBT and BDT - lab unable to analyse due to WHS concerns. Organotin samples for 18/9/2023 taken on 20/9/2023. Organotin samples for 13/12/2023 were taken on 20/12/2023
	27	Dissolved Oxygen	mg/l	Quarterly	2.5	1.6	1.6	1.7	4	4	1.6	1.85	2.5	
	27	Fluoride	mg/l	Quarterly	1.2	1.1	2.4	1.1	4	4	1.1	1.45	2.4	
	27	Lead	mg/l	Quarterly	<0.001	<0.001	0.002	0.002	4	4	0.002	0.002	0.002	
	27	Magnesium	mg/l	Quarterly	<1	217	132	285	4	4	132	211.3333333	285	
	27	Manganese	mg/l	Quarterly	0.003	1.42	0.131	2.04	4	4	0.003	0.8985	2.04	
	27	Mercury	mg/l	Quarterly	<0.0001	<0.0001	<0.0001	<0.0001	4	4	0	#DIV/0!	0	
	27	Nickel	mg/l	Every 6 months		0.258		0.341	2	2	0.258	0.2995	0.341	
	27	Nitrate	mg/l	Quarterly	<0.10	<0.01	0.51	0.03	4	4	0.03	0.27	0.51	
	27	Nitrite	mg/l	Quarterly	1.36	0.04	<0.01	<0.01	4	4	0.04	0.7	1.36	
	27	Nitrogen (ammonia)	mg/l	Quarterly	167	334	772	272	4	4	167	386.25	772	
	27	Nitrogen (Total)	mg/l	Quarterly	161	354	714	319	4	4	161	387	714	
	27	Organotin MBT	ngSn/L	Quarterly	*	*	0.027	<0.020	4	4	0.027	0.027	0.027	
	27	Organotin DBT	ngSn/L	Quarterly	*	*	<0.010	<0.010	4	4	0	#DIV/0!	0	
	27	Organotin TBT	ngSn/L	Quarterly	<2	<2	0.0097	0.0049	4	4	0.0049	0.0073	0.0097	
	27	pH	mg/l	Quarterly	9.77	7.8	8.72	8.04	4	4	7.8	8.5825	9.77	
	27	Phosphorus (total)	mg/l	Quarterly	<0.20	6.05	<2.00	3.81	4	4	3.81	4.93	6.05	
	27	Polycyclic aromatic hydrocarbons	mg/l	Every 6 months		<2.4		<2.4	2	2	0	#DIV/0!	0	
	27	Potassium	mg/l	Quarterly	203	374	1140	546	4	4	203	565.75	1140	
	27	Redox Potential	mV	Quarterly	46.7	114	30.2	166	4	4	30.2	89.225	166	
	27	Selenium	mg/l	Yearly		0.01			1	1	0.01	0.01	0.01	
	27	Silica	mg/l	Yearly		66.7			1	1	66.7	66.7	66.7	
	27	Silver	mg/l	Yearly		<0.001			1	1	0	#DIV/0!	0	
	27	Sodium	mg/l	Quarterly	926	2730	3260	3490	4	4	926	2601.5	3490	
27	Sulfate	mg/l	Quarterly	265	183	1530	439	4	4	183	604.25	1530		
27	Tin	mg/l	Every 6 months		0.008		0.017	2	2	0.008	0.0125	0.017		
27	Total Dissolved Solids	mg/l	Quarterly	4570	9880	12000	14000	4	4	4570	10112.5	14000		
27	Total Organic Carbon	mg/l	Quarterly	62	370	273	249	4	4	62	238.5	370		
27	Total Phenolics	mg/l	Quarterly	0.2	0.4	0.43	<0.05	4	4	0.2	0.343333333	0.43		
27	Zinc	mg/l	Quarterly	<0.005	0.028	0.045	0.009	4	4	0.009	0.027333333	0.045		
					15/03/2023	15/06/2023	18/09/2023	13/12/2023						
A2L1	28	Adsorbable Organic Halogens	mg/l	Quarterly	0.46	1.1	1.3	3.7	4	4	0.46	1.64	3.7	15/6/2023 MBT and BDT - lab unable to analyse due to WHS concerns. Organotin samples for 18/9/2023 taken on 20/9/2023. Organotin samples for 13/12/2023 were taken on 20/12/2023
	28	Alkalinity (as calcium Carbonate)	mg/l	Quarterly	1150	<1	578	2060	4	4	578	1262.666667	2060	
	28	Aluminium	mg/l	Quarterly	0.16	0.36	1.67	0.17	4	4	0.16	0.59	1.67	
	28	Arsenic	mg/l	Quarterly	0.036	0.038	0.047	0.512	4	4	0.036	0.15825	0.512	
	28	Barium	mg/l	Quarterly	0.138	0.162	0.152	0.137	4	4	0.137	0.14725	0.162	
	28	Benzene	mg/l	Every 6 months		<1		<1	2	2	0	#DIV/0!	0	
	28	Bicarbonate	mg/l	Quarterly	1150	1140	578	2060	4	4	578	1232	2060	
	28	Biological oxygen Demand	mg/l	Quarterly	11	5	<2	11	4	4	5	9	11	
	28	Cadmium	mg/l	Quarterly	0.0003	0.0022	0.0024	0.0048	4	4	0.0003	0.002425	0.0048	
	28	Calcium	mg/l	Quarterly	233	229	192	225	4	4	192	219.75	233	
	28	Chemical Oxygen Demand	mg/l	Yearly		683			1	1	683	683	683	
	28	Chloride	mg/l	Quarterly	3980	4440	3260	5600	4	4	3260	4320	5600	
	28	Chlorinated Hydrocarbons	mg/l	Every 6 months		<0.01		<5	2	2	0	#DIV/0!	0	
	28	Chromium	mg/l	Quarterly	0.026	0.031	0.022	0.022	4	4	0.022	0.02525	0.031	
	28	Conductivity	µS/cm	Quarterly	15800	18100	12600	22700	4	4	12600	17300	22700	
	28	Copper	mg/l	Quarterly	0.003	0.015	0.036	0.017	4	4	0.003	0.01775	0.036	
	28	Dissolved Oxygen	mg/l	Quarterly	4.2	4.5	4.8	2.3	4	4	2.3	3.95	4.8	
	28	Fluoride	mg/l	Quarterly	2.3	1.8	1.5	1.9	4	4	1.5	1.875	2.3	
	28	Lead	mg/l	Quarterly	0.001	0.014	0.025	0.003	4	4	0.001	0.01075	0.025	
	28	Magnesium	mg/l	Quarterly	166	208	186	566	4	4	166	281.5	566	
	28	Manganese	mg/l	Quarterly	1.51	1.36	1.37	1.4	4	4	1.36	1.41	1.51	
	28	Mercury	mg/l	Quarterly	<0.0001	<0.0001	0.0005	<0.0001	4	4	0.0005	0.0005	0.0005	
	28	Nickel	mg/l	Every 6 months		0.462		0.619	2	2	0.462	0.5405	0.619	
	28	Nitrate	mg/l	Quarterly	<0.01	<0.01	0.81	5.97	4	4	0.81	3.39	5.97	
	28	Nitrite	mg/l	Quarterly	0.02	0.02	<0.01	4.63	4	4	0.02	1.556666667	4.63	
	28	Nitrogen (ammonia)	mg/l	Quarterly	83.1	85.5	38.7	374	4	4	38.7	145.325	374	
	28	Nitrogen (Total)	mg/l	Quarterly	103	86.1	53.4	446	4	4	53.4	172.125	446	
	28	Organotin MBT	ngSn/L	Quarterly	*	*	<0.020	<0.020	4	4	0	#DIV/0!	0	
	28	Organotin DBT	ngSn/L	Quarterly	*	*	<0.010	<0.010	4	4	0	#DIV/0!	0	
	28	Organotin TBT	ngSn/L	Quarterly	<2	<2	<0.0020	<0.0020	4	4	0	#DIV/0!	0	
	28	pH	pH Unit	Quarterly	7.82	7.6	7.43	8.08	4	4	7.43	7.7325	8.08	
	28	Phosphorus (total)	mg/l	Quarterly	<0.50	0.63	<5.00	0.83	4	4	0.63	0.73	0.83	
	28	Polycyclic aromatic hydrocarbons	mg/l	Every 6 months		<0.5		3.9	2	2	3.9	3.9	3.9	
	28	Potassium	mg/l	Quarterly	1040	1310	846	1390	4	4	846	1146.5	1390	
28	Redox Potential	mV	Quarterly	156	116	105	142	4	4	105	129.75	156		
28	Selenium	mg/l	Yearly		0.02			1	1	0.02	0.02	0.02		
28	Silica	mg/l	Yearly		58			1	1	58	58	58		
28	Silver	mg/l	Yearly		<0.001			1	1	0	#DIV/0!	0		
28	Sodium	mg/l	Quarterly	1740	2210	1530	2480	4	4	1530	1990	2480		
28	Sulfate	mg/l	Quarterly	1230	1520	1230	3220	4	4	1230	1800	3220		

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	28	Tin	mg/l	Every 6 months		<0.001		0.007	2	2	0.007	0.007	0.007	
	28	Total Dissolved Solids	mg/l	Quarterly	9970	9990	7550	14700	4	4	7550	10552.5	14700	
	28	Total Organic Carbon	mg/l	Quarterly	70	121	77	102	4	4	70	92.5	121	
	28	Total Phenolics	mg/l	Quarterly	<0.05	<0.05	<0.05	<0.05	4	4	0	#DIV/0!	0	
	28	Zinc	mg/l	Quarterly	0.028	0.125	0.202	0.164	4	4	0.028	0.12975	0.202	
					15/03/2023	15/06/2023	18/09/2023	13/12/2023		4				
A2L2	29	Adsorbable Organic Halogens	mg/l	Quarterly	3.2	8.1	2.1	2.2	4	4	2.1	3.9	8.1	
	29	Alkalinity (as calcium Carbonate)	mg/l	Quarterly	2840	3550	1750	3480	4	4	1750	2905	3550	
	29	Aluminium	mg/l	Quarterly	1.04	0.11	0.21	0.01	4	4	0.01	0.3425	1.04	
	29	Arsenic	mg/l	Quarterly	0.856	0.179	1.62	1.71	4	4	0.179	1.09125	1.71	
	29	Barium	mg/l	Quarterly	0.118	0.109	0.156	0.054	4	4	0.054	0.10925	0.156	
	29	Benzene	mg/l	Every 6 months		9		2	2	2	2	5.5	9	
	29	Bicarbonate	mg/l	Quarterly	2840	2520	1750	3480	4	4	1750	2647.5	3480	
	29	Biological oxygen Demand	mg/l	Quarterly	142	248	26	11	4	4	11	106.75	248	
	29	Cadmium	mg/l	Quarterly	0.0015	0.0026	0.0005	0.0006	4	4	0.0005	0.0013	0.0026	
	29	Calcium	mg/l	Quarterly	168	12	271	40	4	4	12	122.75	271	
	29	Chemical Oxygen Demand	mg/l	Yearly		2780		----	1	2	2780	2780	2780	
	29	Chloride	mg/l	Quarterly	4380	5750	5370	6280	4	4	4380	5445	6280	
	29	Chlorinated Hydrocarbons	mg/l	Every 6 months		<0.01		5	2	2	5	5	5	
	29	Chromium	mg/l	Quarterly	0.037	0.041	0.027	0.023	4	4	0.023	0.032	0.041	
	29	Conductivity	µS/cm	Quarterly	20300	29700	21400	28900	4	4	20300	25075	29700	
	29	Copper	mg/l	Quarterly	0.01	0.027	0.002	0.005	4	4	0.002	0.011	0.027	
	29	Dissolved Oxygen	mg/l	Quarterly	0.1	1	0.5	1.6	4	4	0.1	0.8	1.6	
	29	Fluoride	mg/l	Quarterly	1.8	5.2	2.2	2.9	4	4	1.8	3.025	5.2	
	29	Lead	mg/l	Quarterly	0.006	0.008	0.002	<0.001	4	4	0.002	0.005333333	0.008	
	29	Magnesium	mg/l	Quarterly	470	166	813	798	4	4	166	561.75	813	
	29	Manganese	mg/l	Quarterly	0.882	0.662	1.83	0.05	4	4	0.05	0.856	1.83	
	29	Mercury	mg/l	Quarterly	<0.0001	0.0004	<0.0001	<0.0001	4	4	0.0004	0.0004	0.0004	
	29	Nickel	mg/l	Every 6 months		0.494		0.584	2	2	0.494	0.539	0.584	
	29	Nitrate	mg/l	Quarterly	<0.01	<0.10	<0.10	<0.10	4	4	0	#DIV/0!	0	
	29	Nitrite	mg/l	Quarterly	0.06	<0.10	0.06	9.78	4	4	0.06	3.3	9.78	
	29	Nitrogen (ammonia)	mg/l	Quarterly	334	2320	202	899	4	4	202	938.75	2320	
	29	Nitrogen (Total)	mg/l	Quarterly	343	2590	205	818	4	4	205	989	2590	
	29	pH	pH Unit	Quarterly	8.23	9.05	7.7	8.2	4	4	7.7	8.295	9.05	
	29	Phosphorus (total)	mg/l	Quarterly	1.92	3.13	<2.00	2.17	4	4	1.92	2.406666667	3.13	
	29	Polycyclic aromatic hydrocarbons	mg/l	Every 6 months		<2.4		9	2	2	9	9	9	
	29	Potassium	mg/l	Quarterly	1300	1650	1160	1840	4	4	1160	1487.5	1840	
	29	Redox Potential	mV	Quarterly	-377	-44.5	-27.4	132	4	4	-377	-79.225	132	
	29	Selenium	mg/l	Yearly		0.04		----	1	2	0.04	0.04	0.04	
	29	Silica	mg/l	Yearly		84		----	1	2	84	84	84	
	29	Silver	mg/l	Yearly		<0.001		----	1	2	0	#DIV/0!	0	
	29	Sodium	mg/l	Quarterly	2120	3450	3070	3000	4	4	2120	2910	3450	
	29	Sulfate	mg/l	Quarterly	2460	2760	3340	4900	4	4	2460	3365	4900	
	29	Tin	mg/l	Every 6 months		0.028		0.028	2	2	0.028	0.028	0.028	
	29	Total Dissolved Solids	mg/l	Quarterly	12300	14400	15000	18200	4	4	12300	14975	18200	
	29	Total Organic Carbon	mg/l	Quarterly	289	772	280	307	4	4	280	412	772	
	29	Total Phenolics	mg/l	Quarterly	0.43	2.29	0.24	<0.05	4	4	0.24	0.986666667	2.29	
	29	Zinc	mg/l	Quarterly	0.04	0.107	0.009	0.024	4	4	0.009	0.045	0.107	
	36	Adsorbable Organic Halogens	mg/l	Quarterly	NL	NL	NL	NL	4	4	0	#DIV/0!	0	
	36	Alkalinity (as calcium Carbonate)	mg/l	Quarterly	NL	NL	NL	NL	4	4	0	#DIV/0!	0	
	36	Aluminium	mg/l	Quarterly	NL	NL	NL	NL	4	4	0	#DIV/0!	0	
	36	Arsenic	mg/l	Quarterly	NL	NL	NL	NL	4	4	0	#DIV/0!	0	
	36	Barium	mg/l	Quarterly	NL	NL	NL	NL	4	4	0	#DIV/0!	0	
	36	Benzene	mg/l	Every 6 months	NL	NL	NL	NL	2	4	0	#DIV/0!	0	
	36	Bicarbonate	mg/l	Quarterly	NL	NL	NL	NL	4	4	0	#DIV/0!	0	
	36	Biological oxygen Demand	mg/l	Quarterly	NL	NL	NL	NL	4	4	0	#DIV/0!	0	
	36	Cadmium	mg/l	Quarterly	NL	NL	NL	NL	4	4	0	#DIV/0!	0	
	36	Calcium	mg/l	Quarterly	NL	NL	NL	NL	4	4	0	#DIV/0!	0	
	36	Chemical Oxygen Demand	mg/l	Yearly	NL	NL	NL	NL	1	4	0	#DIV/0!	0	
	36	Chloride	mg/l	Quarterly	NL	NL	NL	NL	4	4	0	#DIV/0!	0	
	36	Chlorinated Hydrocarbons	mg/l	Every 6 months	NL	NL	NL	NL	2	4	0	#DIV/0!	0	
	36	Chromium	mg/l	Quarterly	NL	NL	NL	NL	4	4	0	#DIV/0!	0	
	36	Conductivity	µS/cm	Quarterly	NL	NL	NL	NL	4	4	0	#DIV/0!	0	
	36	Copper	mg/l	Quarterly	NL	NL	NL	NL	4	4	0	#DIV/0!	0	
	36	Dissolved Oxygen	mg/l	Quarterly	NL	NL	NL	NL	4	4	0	#DIV/0!	0	
	36	Fluoride	mg/l	Quarterly	NL	NL	NL	NL	4	4	0	#DIV/0!	0	
	36	Lead	mg/l	Quarterly	NL	NL	NL	NL	4	4	0	#DIV/0!	0	
	36	Magnesium	mg/l	Quarterly	NL	NL	NL	NL	4	4	0	#DIV/0!	0	
	36	Manganese	mg/l	Quarterly	NL	NL	NL	NL	4	4	0	#DIV/0!	0	
	36	Mercury	mg/l	Quarterly	NL	NL	NL	NL	4	4	0	#DIV/0!	0	

Location Name	EPA Monitoring Point No.	Pollutant	Unit of measure	Frequency	15/03/2023	15/06/2023	18/09/2023		No. of samples required by licence	No. of samples collected and analysed	Lowest Sample Value	Mean Sample Value	Highest Sample Value	Comments
A5L1	36	Nickel	mg/l	Every 6 months	NL	NL	NL	NL	2	4	0	#DIV/0!	0	
	36	Nitrate	mg/l	Quarterly	NL	NL	NL	NL	4	4	0	#DIV/0!	0	
	36	Nitrite	mg/l	Quarterly	NL	NL	NL	NL	4	4	0	#DIV/0!	0	
	36	Nitrogen (ammonia)	mg/l	Quarterly	NL	NL	NL	NL	4	4	0	#DIV/0!	0	
	36	Nitrogen (Total)	mg/l	Quarterly	NL	NL	NL	NL	4	4	0	#DIV/0!	0	
	36	Organotin MBT	ngSn/L	Quarterly	NL	NL	NL	NL	4	4	0	#DIV/0!	0	
	36	Organotin DBT	ngSn/L	Quarterly	NL	NL	NL	NL	4	4	0	#DIV/0!	0	
	36	Organotin TBT	ngSn/L	Quarterly	NL	NL	NL	NL	4	4	0	#DIV/0!	0	
	36	pH	pH Unit	Quarterly	NL	NL	NL	NL	4	4	0	#DIV/0!	0	
	36	Phosphorus (total)	mg/l	Quarterly	NL	NL	NL	NL	4	4	0	#DIV/0!	0	
	36	Polycyclic aromatic hydrocarbons	mg/l	Every 6 months	NL	NL	NL	NL	2	4	0	#DIV/0!	0	
	36	Potassium	mg/l	Quarterly	NL	NL	NL	NL	4	4	0	#DIV/0!	0	
	36	Redox Potential	mV	Quarterly	NL	NL	NL	NL	4	4	0	#DIV/0!	0	
	36	Selenium	mg/l	Yearly	NL	NL	NL	NL	1	4	0	#DIV/0!	0	
	36	Silica	mg/l	Yearly	NL	NL	NL	NL	1	4	0	#DIV/0!	0	
	36	Silver	mg/l	Yearly	NL	NL	NL	NL	1	4	0	#DIV/0!	0	
	36	Sodium	mg/l	Quarterly	NL	NL	NL	NL	4	4	0	#DIV/0!	0	
	36	Sulfate	mg/l	Quarterly	NL	NL	NL	NL	4	4	0	#DIV/0!	0	
	36	Tin	mg/l	Every 6 months	NL	NL	NL	NL	2	4	0	#DIV/0!	0	
	36	Total Dissolved Solids	mg/l	Quarterly	NL	NL	NL	NL	4	4	0	#DIV/0!	0	
36	Total Organic Carbon	mg/l	Quarterly	NL	NL	NL	NL	4	4	0	#DIV/0!	0		
36	Total Phenolics	mg/l	Quarterly	NL	NL	NL	NL	4	4	0	#DIV/0!	0		
36	Zinc	mg/l	Quarterly	NL	NL	NL	NL	4	4	0	#DIV/0!	0		
A5L2	37	Adsorbable Organic Halogens	mg/l	Quarterly	NL	NL	NL	NL	4	4	0	#DIV/0!	0	
	37	Alkalinity (as calcium Carbonate)	mg/l	Quarterly	NL	NL	NL	NL	4	4	0	#DIV/0!	0	
	37	Aluminium	mg/l	Quarterly	NL	NL	NL	NL	4	4	0	#DIV/0!	0	
	37	Arsenic	mg/l	Quarterly	NL	NL	NL	NL	4	4	0	#DIV/0!	0	
	37	Barium	mg/l	Quarterly	NL	NL	NL	NL	4	4	0	#DIV/0!	0	
	37	Benzene	mg/l	Every 6 months	NL	NL	NL	NL	2	4	0	#DIV/0!	0	
	37	Bicarbonate	mg/l	Quarterly	NL	NL	NL	NL	4	4	0	#DIV/0!	0	
	37	Biological oxygen Demand	mg/l	Quarterly	NL	NL	NL	NL	4	4	0	#DIV/0!	0	
	37	Cadmium	mg/l	Quarterly	NL	NL	NL	NL	4	4	0	#DIV/0!	0	
	37	Calcium	mg/l	Quarterly	NL	NL	NL	NL	4	4	0	#DIV/0!	0	
	37	Chemical Oxygen Demand	mg/l	Yearly	NL	NL	NL	NL	1	4	0	#DIV/0!	0	
	37	Chloride	mg/l	Quarterly	NL	NL	NL	NL	4	4	0	#DIV/0!	0	
	37	Chlorinated Hydrocarbons	mg/l	Every 6 months	NL	NL	NL	NL	2	4	0	#DIV/0!	0	
	37	Chromium	mg/l	Quarterly	NL	NL	NL	NL	4	4	0	#DIV/0!	0	
	37	Conductivity	µS/cm	Quarterly	NL	NL	NL	NL	4	4	0	#DIV/0!	0	
	37	Copper	mg/l	Quarterly	NL	NL	NL	NL	4	4	0	#DIV/0!	0	
	37	Dissolved Oxygen	mg/l	Quarterly	NL	NL	NL	NL	4	4	0	#DIV/0!	0	
	37	Fluoride	mg/l	Quarterly	NL	NL	NL	NL	4	4	0	#DIV/0!	0	
	37	Lead	mg/l	Quarterly	NL	NL	NL	NL	4	4	0	#DIV/0!	0	
	37	Magnesium	mg/l	Quarterly	NL	NL	NL	NL	4	4	0	#DIV/0!	0	
	37	Manganese	mg/l	Quarterly	NL	NL	NL	NL	4	4	0	#DIV/0!	0	
	37	Mercury	mg/l	Quarterly	NL	NL	NL	NL	4	4	0	#DIV/0!	0	
	37	Nickel	mg/l	Every 6 months	NL	NL	NL	NL	2	4	0	#DIV/0!	0	
	37	Nitrate	mg/l	Quarterly	NL	NL	NL	NL	4	4	0	#DIV/0!	0	
	37	Nitrite	mg/l	Quarterly	NL	NL	NL	NL	4	4	0	#DIV/0!	0	
	37	Nitrogen (ammonia)	mg/l	Quarterly	NL	NL	NL	NL	4	4	0	#DIV/0!	0	
	37	Nitrogen (Total)	mg/l	Quarterly	NL	NL	NL	NL	4	4	0	#DIV/0!	0	
	37	pH	pH Unit	Quarterly	NL	NL	NL	NL	4	4	0	#DIV/0!	0	
	37	Phosphorus (total)	mg/l	Quarterly	NL	NL	NL	NL	4	4	0	#DIV/0!	0	
	37	Polycyclic aromatic hydrocarbons	mg/l	Every 6 months	NL	NL	NL	NL	2	4	0	#DIV/0!	0	
	37	Potassium	mg/l	Quarterly	NL	NL	NL	NL	4	4	0	#DIV/0!	0	
	37	Redox Potential	mV	Quarterly	NL	NL	NL	NL	4	4	0	#DIV/0!	0	
	37	Selenium	mg/l	Yearly	NL	NL	NL	NL	1	4	0	#DIV/0!	0	
37	Silica	mg/l	Yearly	NL	NL	NL	NL	1	4	0	#DIV/0!	0		
37	Silver	mg/l	Yearly	NL	NL	NL	NL	1	4	0	#DIV/0!	0		
37	Sodium	mg/l	Quarterly	NL	NL	NL	NL	4	4	0	#DIV/0!	0		
37	Sulfate	mg/l	Quarterly	NL	NL	NL	NL	4	4	0	#DIV/0!	0		
37	Tin	mg/l	Every 6 months	NL	NL	NL	NL	2	4	0	#DIV/0!	0		
37	Total Dissolved Solids	mg/l	Quarterly	NL	NL	NL	NL	4	4	0	#DIV/0!	0		
37	Total Organic Carbon	mg/l	Quarterly	NL	NL	NL	NL	4	4	0	#DIV/0!	0		
37	Total Phenolics	mg/l	Quarterly	NL	NL	NL	NL	4	4	0	#DIV/0!	0		
37	Zinc	mg/l	Quarterly	NL	NL	NL	NL	4	4	0	#DIV/0!	0		
					15/03/2023	15/06/2023	18/09/2023	13/12/2023						
	38	Adsorbable Organic Halogens	mg/l	Quarterly	2.5	1.9	3.4	4.600	4	4	1.9	3.1	4.6	
	38	Alkalinity (as calcium Carbonate)	mg/l	Quarterly	1810	<1	1990	2550	4	4	1810	2116.666667	2550	
	38	Aluminium	mg/l	Quarterly	0.02	0.03	0.03	0.12	4	4	0.02	0.05	0.12	
	38	Arsenic	mg/l	Quarterly	0.06	0.028	0.053	0.111	4	4	0.028	0.063	0.111	

Location Name	EPA Monitoring Point No.	Pollutant	Unit of measure	Frequency	15/03/2023	15/06/2023	18/09/2023		No. of samples required by licence	No. of samples collected and analysed	Lowest Sample Value	Mean Sample Value	Highest Sample Value	Comments
A4L1	38	Barium	mg/l	Quarterly	0.321	0.44	0.425	0.732	4	4	0.321	0.4795	0.732	15/6/2023 MBT and BDT - lab unable to analyse due to WHS concerns. Organotin samples for 18/9/2023 taken on 20/9/2023. Organotin samples for 13/12/2023 were taken on 20/12/2023
	38	Benzene	mg/l	Every 6 months		10		9	2	2	9	9.5	10	
	38	Bicarbonate	mg/l	Quarterly	1810	2450	1990	2550	4	4	1810	2200	2550	
	38	Biological oxygen Demand	mg/l	Quarterly	47	78	36	23	4	4	23	46	78	
	38	Cadmium	mg/l	Quarterly	<0.0001	0.0001	0.0001	0.0009	4	4	0.0001	0.000366667	0.0009	
	38	Calcium	mg/l	Quarterly	194	303	192	375	4	4	192	266	375	
	38	Chemical Oxygen Demand	mg/l	Yearly		966			1	1	966	966	966	
	38	Chloride	mg/l	Quarterly	4670	4810	4760	6900	4	4	4670	5285	6900	
	38	Chlorinated Hydrocarbons	mg/l	Every 6 months		<0.01		<5	2	2	0	#DIV/0!	0	
	38	Chromium	mg/l	Quarterly	0.065	0.045	0.076	0.048	4	4	0.045	0.0585	0.076	
	38	Conductivity	µS/cm	Quarterly	18900	20500	20000	23400	4	4	18900	20700	23400	
	38	Copper	mg/l	Quarterly	<0.001	0.005	0.006	0.014	4	4	0.005	0.008333333	0.014	
	38	Dissolved Oxygen	mg/l	Quarterly	2	2.4	1.8	1.6	4	4	1.6	1.95	2.4	
	38	Fluoride	mg/l	Quarterly	4.4	2	3.9	1.1	4	4	1.1	2.85	4.4	
	38	Lead	mg/l	Quarterly	<0.001	0.006	0.002	0.004	4	4	0.002	0.004	0.006	
	38	Magnesium	mg/l	Quarterly	112	198	133	289	4	4	112	183	289	
	38	Manganese	mg/l	Quarterly	0.899	1.19	0.959	2.01	4	4	0.899	1.2645	2.01	
	38	Mercury	mg/l	Quarterly	<0.0001	<0.0001	<0.0001	0.0036	4	4	0.0036	0.0036	0.0036	
	38	Nickel	mg/l	Every 6 months		0.417		0.348	2	2	0.348	0.3825	0.417	
	38	Nitrate	mg/l	Quarterly	0.05	1.01	0.99	0.01	4	4	0.01	0.515	1.01	
	38	Nitrite	mg/l	Quarterly	0.03	0.09	<0.10	<0.01	4	4	0.03	0.06	0.09	
	38	Nitrogen (ammonia)	mg/l	Quarterly	173	200	174	301	4	4	173	212	301	
	38	Nitrogen (Total)	mg/l	Quarterly	189	220	175	317	4	4	175	225.25	317	
	38	Organotin MBT	ngSn/L	Quarterly	*	*	<0.020	<0.020	4	4	0	#DIV/0!	0	
	38	Organotin DBT	ngSn/L	Quarterly	*	*	<0.010	<0.010	4	4	0	#DIV/0!	0	
	38	Organotin TBT	ngSn/L	Quarterly	<2	<2	0.0035	0.0024	4	4	0.0024	0.00295	0.0035	
	38	pH	pH Unit	Quarterly	8.07	7.81	7.76	8.05	4	4	7.76	7.9225	8.07	
	38	Phosphorus (total)	mg/l	Quarterly	2.04	3.82	<10.0	4	4	4	2.04	3.286666667	4	
	38	Polycyclic aromatic hydrocarbons	mg/l	Every 6 months		<2.4		<2.4	2	2	0	#DIV/0!	0	
	38	Potassium	mg/l	Quarterly	1820	625	1910	550	4	4	550	1226.25	1910	
	38	Redox Potential	mV	Quarterly	-173	69.4	105	117	4	4	-173	29.6	117	
	38	Selenium	mg/l	Yearly		0.01			1	1	0.01	0.01	0.01	
	38	Silica	mg/l	Yearly		69.6			1	1	69.6	69.6	69.6	
	38	Silver	mg/l	Yearly		<0.001			1	1	0	#DIV/0!	0	
	38	Sodium	mg/l	Quarterly	2060	2700	2730	3490	4	4	2060	2745	3490	
	38	Sulfate	mg/l	Quarterly	1310	458	783	426	4	4	426	744.25	1310	
	38	Tin	mg/l	Every 6 months		0.006		0.02	2	2	0.006	0.013	0.02	
	38	Total Dissolved Solids	mg/l	Quarterly	11200	10500	12100	13700	4	4	10500	11875	13700	
38	Total Organic Carbon	mg/l	Quarterly	168	296	192	275	4	4	168	232.75	296		
38	Total Phenolics	mg/l	Quarterly	<0.05	0.17	<0.05	<0.05	4	4	0.17	0.17	0.17		
38	Zinc	mg/l	Quarterly	0.012	0.078	0.035	0.028	4	4	0.012	0.03825	0.078		
A4L2	39	Adsorbable Organic Halogens	mg/l	Quarterly	NL	NL	NL	NL	4	4	0	#DIV/0!	0	
	39	Alkalinity (as calcium Carbonate)	mg/l	Quarterly	NL	NL	NL	NL	4	4	0	#DIV/0!	0	
	39	Aluminium	mg/l	Quarterly	NL	NL	NL	NL	4	4	0	#DIV/0!	0	
	39	Arsenic	mg/l	Quarterly	NL	NL	NL	NL	4	4	0	#DIV/0!	0	
	39	Barium	mg/l	Quarterly	NL	NL	NL	NL	4	4	0	#DIV/0!	0	
	39	Benzene	mg/l	Every 6 months	NL	NL	NL	NL	2	4	0	#DIV/0!	0	
	39	Bicarbonate	mg/l	Quarterly	NL	NL	NL	NL	4	4	0	#DIV/0!	0	
	39	Biological oxygen Demand	mg/l	Quarterly	NL	NL	NL	NL	4	4	0	#DIV/0!	0	
	39	Cadmium	mg/l	Quarterly	NL	NL	NL	NL	4	4	0	#DIV/0!	0	
	39	Calcium	mg/l	Quarterly	NL	NL	NL	NL	4	4	0	#DIV/0!	0	
	39	Chemical Oxygen Demand	mg/l	Yearly	NL	NL	NL	NL	1	4	0	#DIV/0!	0	
	39	Chloride	mg/l	Quarterly	NL	NL	NL	NL	4	4	0	#DIV/0!	0	
	39	Chlorinated Hydrocarbons	mg/l	Every 6 months	NL	NL	NL	NL	2	4	0	#DIV/0!	0	
	39	Chromium	mg/l	Quarterly	NL	NL	NL	NL	4	4	0	#DIV/0!	0	
	39	Conductivity	µS/cm	Quarterly	NL	NL	NL	NL	4	4	0	#DIV/0!	0	
	39	Copper	mg/l	Quarterly	NL	NL	NL	NL	4	4	0	#DIV/0!	0	
	39	Dissolved Oxygen	mg/l	Quarterly	NL	NL	NL	NL	4	4	0	#DIV/0!	0	
	39	Fluoride	mg/l	Quarterly	NL	NL	NL	NL	4	4	0	#DIV/0!	0	
	39	Lead	mg/l	Quarterly	NL	NL	NL	NL	4	4	0	#DIV/0!	0	
	39	Magnesium	mg/l	Quarterly	NL	NL	NL	NL	4	4	0	#DIV/0!	0	
	39	Manganese	mg/l	Quarterly	NL	NL	NL	NL	4	4	0	#DIV/0!	0	
	39	Mercury	mg/l	Quarterly	NL	NL	NL	NL	4	4	0	#DIV/0!	0	
	39	Nickel	mg/l	Every 6 months	NL	NL	NL	NL	2	4	0	#DIV/0!	0	
	39	Nitrate	mg/l	Quarterly	NL	NL	NL	NL	4	4	0	#DIV/0!	0	
	39	Nitrite	mg/l	Quarterly	NL	NL	NL	NL	4	4	0	#DIV/0!	0	
	39	Nitrogen (ammonia)	mg/l	Quarterly	NL	NL	NL	NL	4	4	0	#DIV/0!	0	
39	Nitrogen (Total)	mg/l	Quarterly	NL	NL	NL	NL	4	4	0	#DIV/0!	0		
39	pH	pH Unit	Quarterly	NL	NL	NL	NL	4	4	0	#DIV/0!	0		
39	Phosphorus (total)	mg/l	Quarterly	NL	NL	NL	NL	4	4	0	#DIV/0!	0		

Location Name	EPA Monitoring Point No.	Pollutant	Unit of measure	Frequency	15/03/2023	15/06/2023	18/09/2023		No. of samples required by licence	No. of samples collected and analysed	Lowest Sample Value	Mean Sample Value	Highest Sample Value	Comments	
	39	Polycyclic aromatic hydrocarbons	mg/l	Every 6 months	NL	NL	NL	NL	2	4	0	#DIV/0!	0		
	39	Potassium	mg/l	Quarterly	NL	NL	NL	NL	4	4	0	#DIV/0!	0		
	39	Redox Potential	mV	Quarterly	NL	NL	NL	NL	4	4	0	#DIV/0!	0		
	39	Selenium	mg/l	Yearly	NL	NL	NL	NL	1	4	0	#DIV/0!	0		
	39	Silica	mg/l	Yearly	NL	NL	NL	NL	1	4	0	#DIV/0!	0		
	39	Silver	mg/l	Yearly	NL	NL	NL	NL	1	4	0	#DIV/0!	0		
	39	Sodium	mg/l	Quarterly	NL	NL	NL	NL	4	4	0	#DIV/0!	0		
	39	Sulfate	mg/l	Quarterly	NL	NL	NL	NL	4	4	0	#DIV/0!	0		
	39	Tin	mg/l	Every 6 months	NL	NL	NL	NL	2	4	0	#DIV/0!	0		
	39	Total Dissolved Solids	mg/l	Quarterly	NL	NL	NL	NL	4	4	0	#DIV/0!	0		
	39	Total Organic Carbon	mg/l	Quarterly	NL	NL	NL	NL	4	4	0	#DIV/0!	0		
	39	Total Phenolics	mg/l	Quarterly	NL	NL	NL	NL	4	4	0	#DIV/0!	0		
39	Zinc	mg/l	Quarterly	NL	NL	NL	NL	4	4	0	#DIV/0!	0			
L11	40	Adsorbable Organic Halogens	mg/l	Quarterly	16/03/2023 1.5	15/06/2023 1.4	18/09/2023 2.4	19/01/2024 2	13/12/2023 4	4	4	1.4	1.825	2.4	
	40	Alkalinity (as calcium Carbonate)	mg/l	Quarterly	4910	<1	4420	3920	4	4	3920	4416.666667	4910		
	40	Aluminium	mg/l	Quarterly	0.18	0.52	0.26	0.61	4	4	0.18	0.3925	0.61		
	40	Arsenic	mg/l	Quarterly	0.09	0.1	0.144	0.152	4	4	0.09	0.1215	0.152		
	40	Barium	mg/l	Quarterly	0.447	0.606	0.766	0.675	4	4	0.447	0.6235	0.766		
	40	Benzene	mg/l	Every 6 months		23		9	2	2	9	16	23		
	40	Bicarbonate	mg/l	Quarterly	4910	3910	4420	3920	4	4	3910	4290	4910		
	40	Biological oxygen Demand	mg/l	Quarterly	154	94	70	32	4	4	32	87.5	154		
	40	Cadmium	mg/l	Quarterly	0.0004	0.0002	<0.0001	0.0002	4	4	0.0002	0.000266667	0.0004		
	40	Calcium	mg/l	Quarterly	22	28	61	48	4	4	22	39.75	61		
	40	Chemical Oxygen Demand	mg/l	Yearly		716		----	1	2	716	716	716		
	40	Chloride	mg/l	Quarterly	1360	1600	2120	1640	4	4	1360	1680	2120		
	40	Chlorinated Hydrocarbons	mg/l	Every 6 months		6.00		<5	2	2	6	6	6		
	40	Chromium	mg/l	Quarterly	0.106	0.139	0.22	0.174	4	4	0.106	0.15975	0.22		
	40	Conductivity	µS/cm	Quarterly	12200	11700	13000	11500	4	4	11500	12100	13000		
	40	Copper	mg/l	Quarterly	0.005	0.008	0.003	0.017	4	4	0.003	0.00825	0.017		
	40	Dissolved Oxygen	mg/l	Quarterly	0.2	0.1	0.2	2.8	4	4	0.1	0.825	2.8		
	40	Fluoride	mg/l	Quarterly	0.5	0.7	0.8	0.8	4	4	0.5	0.7	0.8		
	40	Lead	mg/l	Quarterly	0.003	0.006	0.001	0.008	4	4	0.001	0.0045	0.008		
	40	Magnesium	mg/l	Quarterly	85	100	128	114	4	4	85	106.75	128		
	40	Manganese	mg/l	Quarterly	0.149	0.214	0.317	0.27	4	4	0.149	0.2375	0.317		
	40	Mercury	mg/l	Quarterly	0.0005	<0.0001	0.0002	0.0005	4	4	0.0002	0.0004	0.0005		
	40	Nickel	mg/l	Every 6 months		0.084		0.076	2	2	0.076	0.08	0.084		
	40	Nitrate	mg/l	Quarterly	<0.10	<0.10	<0.10	1.27	4	4	1.27	1.27	1.27		
	40	Nitrite	mg/l	Quarterly	<0.10	0.01	<0.10	<0.10	4	4	0.01	0.01	0.01		
	40	Nitrogen (ammonia)	mg/l	Quarterly	998	661	689	557	4	4	557	726.25	998		
	40	Nitrogen (Total)	mg/l	Quarterly	953	692	650	590	4	4	590	721.25	953		
	40	pH	pH Unit	Quarterly	7.96	8.05	7.77	8.02	4	4	7.77	7.95	8.05		
	40	Phosphorus (total)	mg/l	Quarterly	3.22	2.06	<10.0	5.64	4	4	2.06	3.64	5.64		
	40	Polycyclic aromatic hydrocarbons	mg/l	Every 6 months		11.1		8.4	2	2	8.4	9.75	11.1		
	40	Potassium	mg/l	Quarterly	94	103	158	132	4	4	94	121.75	158		
	40	Redox Potential	mV	Quarterly	83.8	-62.9	77.1	-4	4	4	-62.9	23.5	83.8		
40	Selenium	mg/l	Yearly		<0.01			1	1	0	#DIV/0!	0			
40	Silica	mg/l	Yearly		114			1	1	114	114	114			
40	Silver	mg/l	Yearly		<0.001			1	1	0	#DIV/0!	0			
40	Sodium	mg/l	Quarterly	1240	1480	1750	1620	4	4	1240	1522.5	1750			
40	Sulfate	mg/l	Quarterly	<10	<1	<50	<10	4	4	0	#DIV/0!	0			
40	Tin	mg/l	Every 6 months		0.014		0.019	2	2	0.014	0.0165	0.019			
40	Total Dissolved Solids	mg/l	Quarterly	4240	4530	6770	5830	4	4	4240	5342.5	6770			
40	Total Organic Carbon	mg/l	Quarterly	305	367	489	246	4	4	246	351.75	489			
40	Total Phenolics	mg/l	Quarterly	1.87	0.46	0.34	0.06	4	4	0.06	0.6825	1.87			
40	Zinc	mg/l	Quarterly	0.017	0.049	0.013	0.073	4	4	0.013	0.038	0.073			
	41	Adsorbable Organic Halogens	mg/l	Quarterly	15/03/2023 2.7	15/06/2023 15	18/09/2023 4.8	13/12/2023 16	4	4	2.7	9.625	16		
	41	Alkalinity (as calcium Carbonate)	mg/l	Quarterly	27800	19400	18500	20200	4	4	18500	21475	27800		
	41	Aluminium	mg/l	Quarterly	0.58	<0.10	0.04	1.43	4	4	0.04	0.683333333	1.43		
	41	Arsenic	mg/l	Quarterly	0.242	0.156	0.218	0.195	4	4	0.156	0.20275	0.242		
	41	Barium	mg/l	Quarterly	0.066	0.126	0.042	0.052	4	4	0.042	0.0715	0.126		
	41	Benzene	mg/l	Every 6 months		2		<1	2	2	2	2	2		
	41	Bicarbonate	mg/l	Quarterly	<1	<1	3300	6200	4	4	3300	4750	6200		
	41	Biological oxygen Demand	mg/l	Quarterly	2240	880	105	34	4	4	34	814.75	2240		
	41	Cadmium	mg/l	Quarterly	0.0014	0.0018	0.0025	0.0025	4	4	0.0014	0.00205	0.0025		
	41	Calcium	mg/l	Quarterly	10	6	4	4	4	4	4	6	10		
	41	Chemical Oxygen Demand	mg/l	Yearly		5780			1	1	5780	5780	5780		
	41	Chloride	mg/l	Quarterly	10100	7890	7100	9730	4	4	7100	8705	10100		
	41	Chlorinated Hydrocarbons	mg/l	Every 6 months		<0.01		<5	2	2	0	#DIV/0!	0		
	41	Chromium	mg/l	Quarterly	0.134	0.159	0.091	0.1	4	4	0.091	0.121	0.159		

Location Name	EPA Monitoring Point No.	Pollutant	Unit of measure	Frequency	15/03/2023	15/06/2023	18/09/2023		No. of samples required by licence	No. of samples collected and analysed	Lowest Sample Value	Mean Sample Value	Highest Sample Value	Comments
A3L1	41	Conductivity	µS/cm	Quarterly	62000	55100	52100	55500	4	4	52100	56175	62000	Organotin samples for 18/9/2023 taken on 20/9/2023. Organotin samples for 13/12/2023 were taken on 20/12/2023.
	41	Copper	mg/l	Quarterly	0.088	0.072	0.119	0.042	4	4	0.042	0.08025	0.119	
	41	Dissolved Oxygen	mg/l	Quarterly	0.7	1.1	2.4	1.4	4	4	0.7	1.4	2.4	
	41	Fluoride	mg/l	Quarterly	19.6	18	13.8	12	4	4	12	15.85	19.6	
	41	Lead	mg/l	Quarterly	0.046	0.014	0.023	0.01	4	4	0.01	0.02325	0.046	
	41	Magnesium	mg/l	Quarterly	50	45	103	177	4	4	45	93.75	177	
	41	Manganese	mg/l	Quarterly	0.127	0.031	0.068	0.067	4	4	0.031	0.07325	0.127	
	41	Mercury	mg/l	Quarterly	0.0004	0.0005	0.0011	<0.0005	4	4	0.0004	0.000666667	0.0011	
	41	Nickel	mg/l	Every 6 months		0.993		3.53	2	2	0.993	2.2615	3.53	
	41	Nitrate	mg/l	Quarterly	<1.00	<0.10	<0.10	94.4	4	4	94.4	94.4	94.4	
	41	Nitrite	mg/l	Quarterly	15	<0.10	<0.10	83.6	4	4	15	49.3	83.6	
	41	Nitrogen (ammonia)	mg/l	Quarterly	8160	7140	6620	5190	4	4	5190	6777.5	8160	
	41	Nitrogen (Total)	mg/l	Quarterly	9480	7260	5640	5880	4	4	5640	7065	9480	
	41	Organotin MBT	ngSn/L	Quarterly	*	0.66	0.38	0.1	4	4	0.1	0.38	0.66	
	41	Organotin DBT	ngSn/L	Quarterly	*	0.19	0.17	0.092	4	4	0.092	0.150666667	0.19	
	41	Organotin TBT	ngSn/L	Quarterly	<162	0.16	0.046	0.028	4	4	0.028	0.078	0.16	
	41	pH	pH Unit	Quarterly	9.7	10	9.51	9.34	4	4	9.34	9.6375	10	
	41	Phosphorus (total)	mg/l	Quarterly	9.8	6.74	<10.0	5.99	4	4	5.99	7.51	9.8	
	41	Polycyclic aromatic hydrocarbons	mg/l	Every 6 months		<2.4		<0.5	2	2	0	#DIV/0!	0	
	41	Potassium	mg/l	Quarterly	5810	4310	4180	5030	4	4	4180	4832.5	5810	
	41	Redox Potential	mV	Quarterly	-131	-81.7	-48.5	51.8	4	4	-131	-52.35	51.8	
	41	Selenium	mg/l	Yearly		0.14			1	1	0.14	0.14	0.14	
	41	Silica	mg/l	Yearly		171			1	1	171	171	171	
	41	Silver	mg/l	Yearly		<0.010			1	1	0	#DIV/0!	0	
	41	Sodium	mg/l	Quarterly	5220	4970	5040	5340	4	4	4970	5142.5	5340	
	41	Sulfate	mg/l	Quarterly	7540	8050	8060	9120	4	4	7540	8192.5	9120	
41	Tin	mg/l	Every 6 months		0.062		0.023	2	2	0.023	0.0425	0.062		
41	Total Dissolved Solids	mg/l	Quarterly	32300	27600	27600	29700	4	4	27600	29300	32300		
41	Total Organic Carbon	mg/l	Quarterly	2870	1560	729	452	4	4	452	1402.75	2870		
41	Total Phenolics	mg/l	Quarterly	16.5	11	2.43	<0.05	4	4	2.43	9.976666667	16.5		
41	Zinc	mg/l	Quarterly	0.337	0.259	1.49	1.39	4	4	0.259	0.869	1.49		
L9	43	Adsorbable Organic Halogens	mg/l	Quarterly	NL	NL	NL	NL	4	4	0	#DIV/0!	0	
	43	Alkalinity (as calcium Carbonate)	mg/l	Quarterly	NL	NL	NL	NL	4	4	0	#DIV/0!	0	
	43	Aluminium	mg/l	Quarterly	NL	NL	NL	NL	4	4	0	#DIV/0!	0	
	43	Arsenic	mg/l	Quarterly	NL	NL	NL	NL	4	4	0	#DIV/0!	0	
	43	Barium	mg/l	Quarterly	NL	NL	NL	NL	4	4	0	#DIV/0!	0	
	43	Benzene	mg/l	Every 6 months	NL	NL	NL	NL	2	4	0	#DIV/0!	0	
	43	Bicarbonate	mg/l	Quarterly	NL	NL	NL	NL	4	4	0	#DIV/0!	0	
	43	Biological oxygen Demand	mg/l	Quarterly	NL	NL	NL	NL	4	4	0	#DIV/0!	0	
	43	Cadmium	mg/l	Quarterly	NL	NL	NL	NL	4	4	0	#DIV/0!	0	
	43	Calcium	mg/l	Quarterly	NL	NL	NL	NL	4	4	0	#DIV/0!	0	
	43	Chemical Oxygen Demand	mg/l	Yearly	NL	NL	NL	NL	1	4	0	#DIV/0!	0	
	43	Chloride	mg/l	Quarterly	NL	NL	NL	NL	4	4	0	#DIV/0!	0	
	43	Chlorinated Hydrocarbons	mg/l	Every 6 months	NL	NL	NL	NL	2	4	0	#DIV/0!	0	
	43	Chromium	mg/l	Quarterly	NL	NL	NL	NL	4	4	0	#DIV/0!	0	
	43	Conductivity	µS/cm	Quarterly	NL	NL	NL	NL	4	4	0	#DIV/0!	0	
	43	Copper	mg/l	Quarterly	NL	NL	NL	NL	4	4	0	#DIV/0!	0	
	43	Dissolved Oxygen	mg/l	Quarterly	NL	NL	NL	NL	4	4	0	#DIV/0!	0	
	43	Fluoride	mg/l	Quarterly	NL	NL	NL	NL	4	4	0	#DIV/0!	0	
	43	Lead	mg/l	Quarterly	NL	NL	NL	NL	4	4	0	#DIV/0!	0	
	43	Magnesium	mg/l	Quarterly	NL	NL	NL	NL	4	4	0	#DIV/0!	0	
	43	Manganese	mg/l	Quarterly	NL	NL	NL	NL	4	4	0	#DIV/0!	0	
	43	Mercury	mg/l	Quarterly	NL	NL	NL	NL	4	4	0	#DIV/0!	0	
	43	Nickel	mg/l	Every 6 months	NL	NL	NL	NL	2	4	0	#DIV/0!	0	
	43	Nitrate	mg/l	Quarterly	NL	NL	NL	NL	4	4	0	#DIV/0!	0	
	43	Nitrite	mg/l	Quarterly	NL	NL	NL	NL	4	4	0	#DIV/0!	0	
	43	Nitrogen (ammonia)	mg/l	Quarterly	NL	NL	NL	NL	4	4	0	#DIV/0!	0	
	43	Nitrogen (Total)	mg/l	Quarterly	NL	NL	NL	NL	4	4	0	#DIV/0!	0	
	43	pH	pH Unit	Quarterly	NL	NL	NL	NL	4	4	0	#DIV/0!	0	
	43	Phosphorus (total)	mg/l	Quarterly	NL	NL	NL	NL	4	4	0	#DIV/0!	0	
	43	Polycyclic aromatic hydrocarbons	mg/l	Every 6 months	NL	NL	NL	NL	2	4	0	#DIV/0!	0	
	43	Potassium	mg/l	Quarterly	NL	NL	NL	NL	4	4	0	#DIV/0!	0	
	43	Redox Potential	mV	Quarterly	NL	NL	NL	NL	4	4	0	#DIV/0!	0	
	43	Selenium	mg/l	Yearly	NL	NL	NL	NL	1	4	0	#DIV/0!	0	
43	Silica	mg/l	Yearly	NL	NL	NL	NL	1	4	0	#DIV/0!	0		
43	Silver	mg/l	Yearly	NL	NL	NL	NL	1	4	0	#DIV/0!	0		
43	Sodium	mg/l	Quarterly	NL	NL	NL	NL	4	4	0	#DIV/0!	0		
43	Sulfate	mg/l	Quarterly	NL	NL	NL	NL	4	4	0	#DIV/0!	0		
43	Tin	mg/l	Every 6 months	NL	NL	NL	NL	2	4	0	#DIV/0!	0		
43	Total Dissolved Solids	mg/l	Quarterly	NL	NL	NL	NL	4	4	0	#DIV/0!	0		

Location Name	EPA Monitoring Point No.	Pollutant	Unit of measure	Frequency	15/03/2023	15/06/2023	18/09/2023		No. of samples required by licence	No. of samples collected and analysed	Lowest Sample Value	Mean Sample Value	Highest Sample Value	Comments
	43	Total Organic Carbon	mg/l	Quarterly	NL	NL	NL	NL	4	4	0	#DIV/0!	0	
	43	Total Phenolics	mg/l	Quarterly	NL	NL	NL	NL	4	4	0	#DIV/0!	0	
	43	Zinc	mg/l	Quarterly	NL	NL	NL	NL	4	4	0	#DIV/0!	0	
					15/03/2023	15/06/2023	18/09/2023	19/01/2024						
L12	44	Adsorbable Organic Halogens	mg/l	Quarterly	2.2	7.2	6.8	3.1	4	4	2.2	4.825	7.2	
	44	Alkalinity (as calcium Carbonate)	mg/l	Quarterly	20300	<1	18800	18800	4	4	18800	19300	20300	
	44	Aluminium	mg/l	Quarterly	2.92	2.5	2.49	2.56	4	4	2.49	2.6175	2.92	
	44	Arsenic	mg/l	Quarterly	0.663	0.757	0.549	0.691	4	4	0.549	0.665	0.757	
	44	Barium	mg/l	Quarterly	1.71	1.35	1.43	1.55	4	4	1.35	1.51	1.71	
	44	Benzene	mg/l	Every 6 months	12			6	2	2	6	9	12	
	44	Bicarbonate	mg/l	Quarterly	20300	18000	18800	18800	4	4	18000	18975	20300	
	44	Biological oxygen Demand	mg/l	Quarterly	109	170	102	112	4	4	102	123.25	170	
	44	Cadmium	mg/l	Quarterly	<0.0010	<0.0010	<0.0010	<0.0010	4	4	0	#DIV/0!	0	
	44	Calcium	mg/l	Quarterly	49	43	34	36	4	4	34	40.5	49	
	44	Chemical Oxygen Demand	mg/l	Yearly		8270		----	1	2	8270	8270	8270	
	44	Chloride	mg/l	Quarterly	5120	4880	4590	5160	4	4	4590	4937.5	5160	
	44	Chlorinated Hydrocarbons	mg/l	Every 6 months		13.00		<5	2	2	13	13	13	
	44	Chromium	mg/l	Quarterly	1.86	1.69	1.85	1.59	4	4	1.59	1.7475	1.86	
	44	Conductivity	µS/cm	Quarterly	43300	43100	40000	35400	4	4	35400	40450	43300	
	44	Copper	mg/l	Quarterly	<0.010	0.013	<0.010	<0.010	4	4	0.013	0.013	0.013	
	44	Dissolved Oxygen	mg/l	Quarterly	0.1	0.1	<0.1	0.5	4	4	0.1	0.233333333	0.5	
	44	Fluoride	mg/l	Quarterly	5.6	5	4.4	4.6	4	4	4.4	4.9	5.6	
	44	Lead	mg/l	Quarterly	<0.010	<0.010	<0.010	<0.010	4	4	0	#DIV/0!	0	
	44	Magnesium	mg/l	Quarterly	258	230	232	214	4	4	214	233.5	258	
	44	Manganese	mg/l	Quarterly	0.573	0.449	0.408	0.484	4	4	0.408	0.4785	0.573	
	44	Mercury	mg/l	Quarterly	<0.0001	<0.0010	<0.0001	<0.0010	4	4	0	#DIV/0!	0	
	44	Nickel	mg/l	Every 6 months		0.42		0.44	2	2	0.42	0.43	0.44	
	44	Nitrate	mg/l	Quarterly	<1.00	<0.10	<0.10	4.28	4	4	4.28	4.28	4.28	
	44	Nitrite	mg/l	Quarterly	<1.00	<0.10	<0.10	<0.50	4	4	0	#DIV/0!	0	
	44	Nitrogen (ammonia)	mg/l	Quarterly	1240	1500	1420	1060	4	4	1060	1305	1500	
	44	Nitrogen (Total)	mg/l	Quarterly	1300	1610	1520	1420	4	4	1300	1462.5	1610	
	44	pH	pH Unit	Quarterly	8.08	8.14	8.11	8.13	4	4	8.08	8.115	8.14	
	44	Phosphorus (total)	mg/l	Quarterly	34.1	38.8	<10.0	24.7	4	4	24.7	32.53333333	38.8	
	44	Polycyclic aromatic hydrocarbons	mg/l	Every 6 months		<2.4		<2.4	2	2	0	#DIV/0!	0	
	44	Potassium	mg/l	Quarterly	482	464	483	467	4	4	464	474	483	
	44	Redox Potential	mV	Quarterly	-168	2.6	-119	-318	4	4	-318	-150.6	2.6	
	44	Selenium	mg/l	Yearly		<0.10			1	1	0	#DIV/0!	0	
	44	Silica	mg/l	Yearly		91.4			1	1	91.4	91.4	91.4	
	44	Silver	mg/l	Yearly		<0.010			1	1	0	#DIV/0!	0	
	44	Sodium	mg/l	Quarterly	11200	9210	8060	8040	4	4	8040	9127.5	11200	
	44	Sulfate	mg/l	Quarterly	2430	1240	948	675	4	4	675	1323.25	2430	
	44	Tin	mg/l	Every 6 months		0.271		0.115	2	2	0.115	0.193	0.271	
	44	Total Dissolved Solids	mg/l	Quarterly	33100	29400	30400	28900	4	4	28900	30450	33100	
	44	Total Organic Carbon	mg/l	Quarterly	1380	3440	1820	1600	4	4	1380	2060	3440	
	44	Total Phenolics	mg/l	Quarterly	<0.05	1.88	0.36	0.14	4	4	0.14	0.793333333	1.88	
	44	Zinc	mg/l	Quarterly	0.12	0.121	0.143	0.109	4	4	0.109	0.12325	0.143	
					15/03/2023									
A5B11	52	Adsorbable Organic Halogens	mg/l	Quarterly	5.2	NL	NL	NL	4	4	5.2	5.2	5.2	
	52	Alkalinity (as calcium Carbonate)	mg/l	Quarterly	1750	NL	NL	NL	4	4	1750	1750	1750	
	52	Aluminium	mg/l	Quarterly	0.03	NL	NL	NL	4	4	0.03	0.03	0.03	
	52	Arsenic	mg/l	Quarterly	0.05	NL	NL	NL	4	4	0.05	0.05	0.05	
	52	Barium	mg/l	Quarterly	0.312	NL	NL	NL	4	4	0.312	0.312	0.312	
	52	Benzene	mg/l	Every 6 months		NL	NL	NL	2	3	0	#DIV/0!	0	
	52	Bicarbonate	mg/l	Quarterly	1750	NL	NL	NL	4	4	1750	1750	1750	
	52	Biological oxygen Demand	mg/l	Quarterly	27	NL	NL	NL	4	4	27	27	27	
	52	Cadmium	mg/l	Quarterly	0.0002	NL	NL	NL	4	4	0.0002	0.0002	0.0002	
	52	Calcium	mg/l	Quarterly	247	NL	NL	NL	4	4	247	247	247	
	52	Chemical Oxygen Demand	mg/l	Yearly		NL	NL	NL	1	3	0	#DIV/0!	0	
	52	Chloride	mg/l	Quarterly	4330	NL	NL	NL	4	4	4330	4330	4330	
	52	Chlorinated Hydrocarbons	mg/l	Every 6 months		NL	NL	NL	2	3	0	#DIV/0!	0	
	52	Chromium	mg/l	Quarterly	0.097	NL	NL	NL	4	4	0.097	0.097	0.097	
	52	Conductivity	µS/cm	Quarterly	17900	NL	NL	NL	4	4	17900	17900	17900	
	52	Copper	mg/l	Quarterly	0.011	NL	NL	NL	4	4	0.011	0.011	0.011	
	52	Dissolved Oxygen	mg/l	Quarterly	1.1	NL	NL	NL	4	4	1.1	1.1	1.1	
	52	Fluoride	mg/l	Quarterly	4	NL	NL	NL	4	4	4	4	4	
	52	Lead	mg/l	Quarterly	0.007	NL	NL	NL	4	4	0.007	0.007	0.007	
	52	Magnesium	mg/l	Quarterly	130	NL	NL	NL	4	4	130	130	130	
	52	Manganese	mg/l	Quarterly	1.09	NL	NL	NL	4	4	1.09	1.09	1.09	
	52	Mercury	mg/l	Quarterly	<0.0001	NL	NL	NL	4	4	0	#DIV/0!	0	
	52	Nickel	mg/l	Every 6 months		NL	NL	NL	2	3	0	#DIV/0!	0	
	52	Nitrate	mg/l	Quarterly	<0.01	NL	NL	NL	4	4	0	#DIV/0!	0	

Location Name	EPA Monitoring Point No.	Pollutant	Unit of measure	Frequency	15/03/2023	15/06/2023	18/09/2023		No. of samples required by licence	No. of samples collected and analysed	Lowest Sample Value	Mean Sample Value	Highest Sample Value	Comments
	52	Nitrite	mg/l	Quarterly	<0.01	NL	NL	NL	4	4	0	#DIV/0!	0	
	52	Nitrogen (ammonia)	mg/l	Quarterly	164	NL	NL	NL	4	4	164	164	164	
	52	Nitrogen (Total)	mg/l	Quarterly	156	NL	NL	NL	4	4	156	156	156	
	52	Organotin MBT	ngSn/L	Quarterly	*	NL	NL	NL	4	4	0	#DIV/0!	0	
	52	Organotin DBT	ngSn/L	Quarterly	*	NL	NL	NL	4	4	0	#DIV/0!	0	
	52	Organotin TBT	ngSn/L	Quarterly	<118	NL	NL	NL	4	4	0	#DIV/0!	0	
	52	pH	pH Unit	Quarterly	7.9	NL	NL	NL	4	4	7.9	7.9	7.9	
	52	Phosphorus (total)	mg/l	Quarterly	1.74	NL	NL	NL	4	4	1.74	1.74	1.74	
	52	Polycyclic aromatic hydrocarbons	mg/l	Every 6 months		NL	NL	NL	2	3	0	#DIV/0!	0	
	52	Potassium	mg/l	Quarterly	1540	NL	NL	NL	4	4	1540	1540	1540	
	52	Redox Potential	mV	Quarterly	-7.3	NL	NL	NL	4	4	-7.3	-7.3	-7.3	
	52	Selenium	mg/l	Yearly		NL	NL	NL	1	3	0	#DIV/0!	0	
	52	Silica	mg/l	Yearly		NL	NL	NL	1	3	0	#DIV/0!	0	
	52	Silver	mg/l	Yearly		NL	NL	NL	1	3	0	#DIV/0!	0	
	52	Sodium	mg/l	Quarterly	2120	NL	NL	NL	4	4	2120	2120	2120	
	52	Sulfate	mg/l	Quarterly	1240	NL	NL	NL	4	4	1240	1240	1240	
	52	Tin	mg/l	Every 6 months		NL	NL	NL	2	3	0	#DIV/0!	0	
	52	Total Dissolved Solids	mg/l	Quarterly	11100	NL	NL	NL	4	4	11100	11100	11100	
52	Total Organic Carbon	mg/l	Quarterly	160	NL	NL	NL	4	4	160	160	160		
52	Total Phenolics	mg/l	Quarterly	<0.05	NL	NL	NL	4	4	0	#DIV/0!	0		
52	Zinc	mg/l	Quarterly	0.029	NL	NL	NL	4	4	0.029	0.029	0.029		
A5BL2	53	Adsorbable Organic Halogens	mg/l	Quarterly	NL	NL	NL	NL	4	4	0	#DIV/0!	0	
	53	Alkalinity (as calcium Carbonate)	mg/l	Quarterly	NL	NL	NL	NL	4	4	0	#DIV/0!	0	
	53	Aluminium	mg/l	Quarterly	NL	NL	NL	NL	4	4	0	#DIV/0!	0	
	53	Arsenic	mg/l	Quarterly	NL	NL	NL	NL	4	4	0	#DIV/0!	0	
	53	Barium	mg/l	Quarterly	NL	NL	NL	NL	4	4	0	#DIV/0!	0	
	53	Benzene	mg/l	Every 6 months	NL	NL	NL	NL	2	4	0	#DIV/0!	0	
	53	Bicarbonate	mg/l	Quarterly	NL	NL	NL	NL	4	4	0	#DIV/0!	0	
	53	Biological oxygen Demand	mg/l	Quarterly	NL	NL	NL	NL	4	4	0	#DIV/0!	0	
	53	Cadmium	mg/l	Quarterly	NL	NL	NL	NL	4	4	0	#DIV/0!	0	
	53	Calcium	mg/l	Quarterly	NL	NL	NL	NL	4	4	0	#DIV/0!	0	
	53	Chemical Oxygen Demand	mg/l	Yearly	NL	NL	NL	NL	1	4	0	#DIV/0!	0	
	53	Chloride	mg/l	Quarterly	NL	NL	NL	NL	4	4	0	#DIV/0!	0	
	53	Chlorinated Hydrocarbons	mg/l	Every 6 months	NL	NL	NL	NL	2	4	0	#DIV/0!	0	
	53	Chromium	mg/l	Quarterly	NL	NL	NL	NL	4	4	0	#DIV/0!	0	
	53	Conductivity	µS/cm	Quarterly	NL	NL	NL	NL	4	4	0	#DIV/0!	0	
	53	Copper	mg/l	Quarterly	NL	NL	NL	NL	4	4	0	#DIV/0!	0	
	53	Dissolved Oxygen	mg/l	Quarterly	NL	NL	NL	NL	4	4	0	#DIV/0!	0	
	53	Fluoride	mg/l	Quarterly	NL	NL	NL	NL	4	4	0	#DIV/0!	0	
	53	Lead	mg/l	Quarterly	NL	NL	NL	NL	4	4	0	#DIV/0!	0	
	53	Magnesium	mg/l	Quarterly	NL	NL	NL	NL	4	4	0	#DIV/0!	0	
	53	Manganese	mg/l	Quarterly	NL	NL	NL	NL	4	4	0	#DIV/0!	0	
	53	Mercury	mg/l	Quarterly	NL	NL	NL	NL	4	4	0	#DIV/0!	0	
	53	Nickel	mg/l	Every 6 months	NL	NL	NL	NL	2	4	0	#DIV/0!	0	
	53	Nitrate	mg/l	Quarterly	NL	NL	NL	NL	4	4	0	#DIV/0!	0	
	53	Nitrite	mg/l	Quarterly	NL	NL	NL	NL	4	4	0	#DIV/0!	0	
	53	Nitrogen (ammonia)	mg/l	Quarterly	NL	NL	NL	NL	4	4	0	#DIV/0!	0	
	53	Nitrogen (Total)	mg/l	Quarterly	NL	NL	NL	NL	4	4	0	#DIV/0!	0	
	53	pH	pH Unit	Quarterly	NL	NL	NL	NL	4	4	0	#DIV/0!	0	
	53	Phosphorus (total)	mg/l	Quarterly	NL	NL	NL	NL	4	4	0	#DIV/0!	0	
	53	Polycyclic aromatic hydrocarbons	mg/l	Every 6 months	NL	NL	NL	NL	2	4	0	#DIV/0!	0	
	53	Potassium	mg/l	Quarterly	NL	NL	NL	NL	4	4	0	#DIV/0!	0	
	53	Redox Potential	mV	Quarterly	NL	NL	NL	NL	4	4	0	#DIV/0!	0	
53	Selenium	mg/l	Yearly	NL	NL	NL	NL	1	4	0	#DIV/0!	0		
53	Silica	mg/l	Yearly	NL	NL	NL	NL	1	4	0	#DIV/0!	0		
53	Silver	mg/l	Yearly	NL	NL	NL	NL	1	4	0	#DIV/0!	0		
53	Sodium	mg/l	Quarterly	NL	NL	NL	NL	4	4	0	#DIV/0!	0		
53	Sulfate	mg/l	Quarterly	NL	NL	NL	NL	4	4	0	#DIV/0!	0		
53	Tin	mg/l	Every 6 months	NL	NL	NL	NL	2	4	0	#DIV/0!	0		
53	Total Dissolved Solids	mg/l	Quarterly	NL	NL	NL	NL	4	4	0	#DIV/0!	0		
53	Total Organic Carbon	mg/l	Quarterly	NL	NL	NL	NL	4	4	0	#DIV/0!	0		
53	Total Phenolics	mg/l	Quarterly	NL	NL	NL	NL	4	4	0	#DIV/0!	0		
53	Zinc	mg/l	Quarterly	NL	NL	NL	NL	4	4	0	#DIV/0!	0		
					16/03/2023	15/06/2023	18/09/2023	19/01/2024						
	55	Adsorbable Organic Halogens	mg/l	Quarterly	1.9	2.5	1.8	6.800	4	4	1.8	3.25	6.8	
	55	Alkalinity (as calcium Carbonate)	mg/l	Quarterly	6850	<1	7430	6030	4	4	6030	6770	7430	
	55	Aluminium	mg/l	Quarterly	0.65	0.57	1.13	0.49	4	4	0.49	0.71	1.13	
	55	Arsenic	mg/l	Quarterly	0.073	0.076	0.077	0.074	4	4	0.073	0.075	0.077	
	55	Barium	mg/l	Quarterly	1.79	1.55	2.06	1.35	4	4	1.35	1.6875	2.06	
55	Benzene	mg/l	Every 6 months		27		22	2	2	22	24.5	27		

Location Name	EPA Monitoring Point No.	Pollutant	Unit of measure	Frequency	15/03/2023	15/06/2023	18/09/2023		No. of samples required by licence	No. of samples collected and analysed	Lowest Sample Value	Mean Sample Value	Highest Sample Value	Comments
L13	55	Bicarbonate	mg/l	Quarterly	6850	5850	7430	6030	4	4	5850	6540	7430	
	55	Biological oxygen Demand	mg/l	Quarterly	83	68	76	68	4	4	68	73.75	83	
	55	Cadmium	mg/l	Quarterly	0.0001	<0.0001	<0.0001	<0.0001	4	4	0.0001	0.0001	0.0001	
	55	Calcium	mg/l	Quarterly	77	72	78	77	4	4	72	76	78	
	55	Chemical Oxygen Demand	mg/l	Yearly		6330		----	1	2	6330	6330	6330	
	55	Chloride	mg/l	Quarterly	4740	410	4580	3960	4	4	410	3422.5	4740	
	55	Chlorinated Hydrocarbons	mg/l	Every 6 months		7.50		<5	2	2	7.5	7.5	7.5	
	55	Chromium	mg/l	Quarterly	0.664	0.594	0.72	0.59	4	4	0.59	0.642	0.72	
	55	Conductivity	µS/cm	Quarterly	22500	24400	24000	21500	4	4	21500	23100	24400	
	55	Copper	mg/l	Quarterly	0.005	0.006	0.006	0.003	4	4	0.003	0.005	0.006	
	55	Dissolved Oxygen	mg/l	Quarterly	1.5	1.6	2.1	5.1	4	4	1.5	2.575	5.1	
	55	Fluoride	mg/l	Quarterly	1.3	1.4	1.4	1.4	4	4	1.3	1.375	1.4	
	55	Lead	mg/l	Quarterly	0.002	0.002	0.006	0.002	4	4	0.002	0.003	0.006	
	55	Magnesium	mg/l	Quarterly	291	286	327	295	4	4	286	299.75	327	
	55	Manganese	mg/l	Quarterly	0.751	0.708	0.753	0.697	4	4	0.697	0.72725	0.753	
	55	Mercury	mg/l	Quarterly	<0.0001	<0.0010	<0.0001	<0.0010	4	4	0	#DIV/0!	0	
	55	Nickel	mg/l	Every 6 months		0.213		0.187	2	2	0.187	0.2	0.213	
	55	Nitrate	mg/l	Quarterly	<1.00	<0.10	1.07	<1.00	4	4	1.07	1.07	1.07	
	55	Nitrite	mg/l	Quarterly	<1.00	<0.10	<0.10	<0.10	4	4	0	#DIV/0!	0	
	55	Nitrogen (ammonia)	mg/l	Quarterly	488	468	518	376	4	4	376	462.5	518	
	55	Nitrogen (Total)	mg/l	Quarterly	521	492	608	506	4	4	492	531.75	608	
	55	pH	pH Unit	Quarterly	8.05	8.05	7.9	8.03	4	4	7.9	8.0075	8.05	
	55	Phosphorus (total)	mg/l	Quarterly	7.55	6	<10.0	9.16	4	4	6	7.57	9.16	
	55	Polycyclic aromatic hydrocarbons	mg/l	Every 6 months		7.5		6.9	2	2	6.9	7.2	7.5	
	55	Potassium	mg/l	Quarterly	263	282	293	296	4	4	263	283.5	296	
	55	Redox Potential	mV	Quarterly	50.5	63.6	34.6	33.7	4	4	33.7	45.6	63.6	
	55	Selenium	mg/l	Yearly		0.01			1	1	0.01	0.01	0.01	
	55	Silica	mg/l	Yearly		87			1	1	87	87	87	
	55	Silver	mg/l	Yearly		<0.001			1	1	0	#DIV/0!	0	
	55	Sodium	mg/l	Quarterly	3960	4030	4480	4120	4	4	3960	4147.5	4480	
55	Sulfate	mg/l	Quarterly	<100	<20	<50	<10	4	4	0	#DIV/0!	0		
55	Tin	mg/l	Every 6 months		0.119		0.105	2	2	0.105	0.112	0.119		
55	Total Dissolved Solids	mg/l	Quarterly	14300	13100	14700	14800	4	4	13100	14225	14800		
55	Total Organic Carbon	mg/l	Quarterly	654	1050	1190	670	4	4	654	891	1190		
55	Total Phenolics	mg/l	Quarterly	<0.05	1.18	0.12	<0.10	4	4	0.12	0.65	1.18		
55	Zinc	mg/l	Quarterly	0.038	0.035	0.059	0.029	4	4	0.029	0.04025	0.059		
					16/03/2023	15/06/2023	18/09/2023	19/01/2024		4				
F4	62	Adsorbable Organic Halogens	mg/l	Quarterly	1.1	1.9	1.6	2.7	4	4	1.1	1.825	2.7	
	62	Alkalinity (as calcium Carbonate)	mg/l	Quarterly	4560	<1	4930	4030	4	4	4030	4506.666667	4930	
	62	Aluminium	mg/l	Quarterly	0.51	0.51	0.72	0.36	4	4	0.36	0.525	0.72	
	62	Arsenic	mg/l	Quarterly	0.079	0.079	0.077	0.06	4	4	0.06	0.07375	0.079	
	62	Barium	mg/l	Quarterly	0.816	0.863	0.99	0.716	4	4	0.716	0.84625	0.99	
	62	Benzene	mg/l	Every 6 months		8		8	2	2	8	8	8	
	62	Bicarbonate	mg/l	Quarterly	4560	3900	4930	4030	4	4	3900	4355	4930	
	62	Biological oxygen Demand	mg/l	Quarterly	35	66	64	57	4	4	35	55.5	66	
	62	Cadmium	mg/l	Quarterly	<0.0001	<0.0001	<0.0001	<0.0001	4	4	0	#DIV/0!	0	
	62	Calcium	mg/l	Quarterly	148	158	174	188	4	4	148	167	188	
	62	Chemical Oxygen Demand	mg/l	Yearly		1220		1280	1	2	1220	1250	1280	
	62	Chloride	mg/l	Quarterly	2640	249	2460	2510	4	4	249	1964.75	2640	
	62	Chlorinated Hydrocarbons	mg/l	Every 6 months		<0.01		<5	2	2	0	#DIV/0!	0	
	62	Chromium	mg/l	Quarterly	0.31	0.278	0.394	0.267	4	4	0.267	0.31225	0.394	
	62	Conductivity	µS/cm	Quarterly	13200	15600	14800	14000	4	4	13200	14400	15600	
	62	Copper	mg/l	Quarterly	0.005	0.006	0.005	0.004	4	4	0.004	0.005	0.006	
	62	Dissolved Oxygen	mg/l	Quarterly	1.9	2	1.9	6.2	4	4	1.9	3	6.2	
	62	Fluoride	mg/l	Quarterly	1	1	0.8	0.8	4	4	0.8	0.9	1	
	62	Lead	mg/l	Quarterly	0.002	0.002	0.002	0.002	4	4	0.002	0.002	0.002	
	62	Magnesium	mg/l	Quarterly	166	188	184	164	4	4	164	175.5	188	
	62	Manganese	mg/l	Quarterly	1.02	1.21	1.22	0.97	4	4	0.97	1.105	1.22	
	62	Mercury	mg/l	Quarterly	<0.0001	<0.0010	<0.0001	<0.0001	4	4	0	#DIV/0!	0	
	62	Nickel	mg/l	Every 6 months		0.115		0.103	2	2	0.103	0.109	0.115	
	62	Nitrate	mg/l	Quarterly	<1.00	<0.10	<0.10	<1.00	4	4	0	#DIV/0!	0	
	62	Nitrite	mg/l	Quarterly	<1.00	<0.01	<0.10	0.1	4	4	0.1	0.1	0.1	
	62	Nitrogen (ammonia)	mg/l	Quarterly	467	434	597	396	4	4	396	473.5	597	
	62	Nitrogen (Total)	mg/l	Quarterly	450	432	636	483	4	4	432	500.25	636	
	62	pH	pH Unit	Quarterly	8.06	7.91	7.89	7.85	4	4	7.85	7.9275	8.06	
	62	Phosphorus (total)	mg/l	Quarterly	5	4.43	<10.0	6.52	4	4	4.43	5.316666667	6.52	
	62	Polycyclic aromatic hydrocarbons	mg/l	Every 6 months		<2.4		8.2	2	2	8.2	8.2	8.2	
62	Potassium	mg/l	Quarterly	226	236	286	242	4	4	226	247.5	286		
62	Redox Potential	mV	Quarterly	70.5	71.2	70.5	-21.4	4	4	-21.4	47.7	71.2		
62	Selenium	mg/l	Yearly		<0.01		<0.01	1	2	0	#DIV/0!	0		
62	Silica	mg/l	Yearly		64.7		62.6	1	2	62.6	63.65	64.7		

Location Name	EPA Monitoring Point No.	Pollutant	Unit of measure	Frequency	15/03/2023	15/06/2023	18/09/2023		No. of samples required by licence	No. of samples collected and analysed	Lowest Sample Value	Mean Sample Value	Highest Sample Value	Comments
	62	Silver	mg/l	Yearly		<0.001		<0.001	1	2	0	#DIV/0!	0	
	62	Sodium	mg/l	Quarterly	2200	2430	2290	2250	4	4	2200	2292.5	2430	
	62	Sulfate	mg/l	Quarterly	<100	<50	<50	<10	4	4	0	#DIV/0!	0	
	62	Tin	mg/l	Every 6 months		0.137		0.098	2	2	0.098	0.1175	0.137	
	62	Total Dissolved Solids	mg/l	Quarterly	8000	7090	7850	5920	4	4	5920	7215	8000	
	62	Total Organic Carbon	mg/l	Quarterly	394	580	644	366	4	4	366	496	644	
	62	Total Phenolics	mg/l	Quarterly	<0.05	0.17	<0.10	<0.10	4	4	0.17	0.17	0.17	
	62	Zinc	mg/l	Quarterly	0.033	0.049	0.045	0.023	4	4	0.023	0.0375	0.049	

Comments:

- NL = No leachate available for sampling

- In Q1 and Q2 of 2023, Cleanaway encountered an issue with the Laboratory (ALS Environmental) who were undertaking the analysis and the parameters with "*" in the cells above were unable to be analysed. Cleanaway had rectified this in Q3 2023.