

Pollutant Monitoring Results - Groundwater



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	EPL Limit	13/03/2024	1/06/2024	19/09/2024	11/12/2024	Exceedance (Y/N)	No. of samples required by licence	No. of samples collected and analysed	Lowest Sample Value	Mean Sample Value	Highest Sample Value	Comments
G1a	16	Alkalinity (as calcium carbonate)	mg/L	6 Monthly	n/a	1200		1100		n/a	2	4	1100	1150	1200	
	16	Aluminium	mg/L	Annually	n/a			<0.01		n/a	1	2	0	<0.01		
	16	Arsenic	mg/L	Annually	n/a			<0.001		n/a	1	2	0	<0.001		
	16	Barium	mg/L	Annually	n/a			0.026		n/a	1	2	0.026	0.026	0.026	
	16	Benzene	mg/L	Annually	n/a			<0.001		n/a	1	2	<0.001	<0.001	<0.001	
	16	Cadmium	mg/L	Annually	n/a			<0.0001		n/a	1	2	<0.0001	<0.0001	<0.0001	
	16	Calcium	mg/L	6 Monthly	n/a	72		67		n/a	2	4	67	70	72	
	16	Chloride	mg/L	6 Monthly	n/a	2000		2100		n/a	2	4	2000	2050	2100	
	16	Chromium	mg/L	Annually	n/a			<0.001		n/a	1	2	<0.001	<0.001	<0.001	
	16	Conductivity	µS/cm	6 Monthly	n/a	8730	7437	8871	8381	n/a	2	4	7437	8355	8871	
	16	Copper	mg/L	Annually	n/a			0.019		n/a	1	2	0	0	0	
	16	Dissolved Oxygen	mg/L	6 Monthly	n/a	1.2	0.83	4.52	1.43	n/a	2	4	0.830	1.995	4.520	
	16	Fluoride	mg/L	6 Monthly	n/a	0.5		0.5		n/a	2	4	0.500	0.500	0.500	
	16	Iron	mg/L	Annually	n/a			0.11		n/a	1	2	0.110	0.110	0.110	
	16	Lead	mg/L	Annually	n/a			<0.001		n/a	1	2	<0.001	<0.001	<0.001	
	16	Magnesium	mg/L	6 Monthly	n/a	220		210		n/a	2	4	210	215	220	
	16	Manganese	mg/L	Annually	n/a			0.051		n/a	1	2	0.051	0.051	0.051	
	16	Mercury	mg/L	Annually	n/a			*	<0.00005	n/a	1	2	<0.05	<0.05	<0.05	
	16	Nickel	mg/L	Annually	n/a			<0.001		n/a	1	2	<0.001	<0.001	<0.001	
	16	Nitrate	mg/L	6 Monthly	n/a	<0.005		0.02		n/a	2	4	0.020	0.020	0.020	
	16	Nitrite	mg/L	6 Monthly	n/a	<0.005		0.013		n/a	2	4	0.013	0.013	0.013	
	16	Nitrogen (ammonia)	mg/L	Quarterly	15	0.46	0.51	0.57	0.7	N	4	4	0.460	0.560	0.700	
	16	Nitrogen (Total)	mg/L	6 Monthly	n/a	0.7		0.8		n/a	2	4	0.700	0.750	0.800	
	16	pH	pH Unit	6 Monthly	n/a	5.81	7.01	7.02	7.94	n/a	2	4	5.810	6.945	7.940	
	16	Phenols	mg/L	6 Monthly	n/a	<0.05		<0.05		n/a	2	4	<0.05	<0.05	<0.05	
	16	Phosphorus (Total)	mg/L	6 Monthly	n/a	0.68		1.3		n/a	2	4	0.680	0.990	1.300	
	16	Polycyclic Aromatic Hydrocarbons	mg/L	6 Monthly	n/a	0.0001		0.0001		n/a	2	3	0.0001	0.0001	0.0001	
	16	Potassium	mg/L	6 Monthly	n/a	13		12		n/a	2	4	12.0	12.5	13.0	
	16	Redox potential	mV	6 Monthly	n/a	-89	1259	191	-92.1	n/a	2	4	-92	317	1259	
	16	Selenium	mg/L	6 Monthly	n/a	<0.001		<0.001		n/a	2	4	<0.001	<0.001	<0.001	
16	Silver	mg/L	6 Monthly	n/a	<0.001		<0.001		n/a	2	4	<0.001	<0.001	<0.001		
16	Sodium	mg/L	6 Monthly	n/a	1600		1400		n/a	2	4	1400	1500	1600		
16	Standing Water Level	Metres	Quarterly	n/a	17.08	15.71	16.6	17.02	n/a	4	4	16	17	17		
16	Sulfate	mg/L	6 Monthly	n/a	440		450		n/a	2	4	440	445	450		
16	Total organic carbon	mg/L	Quarterly	n/a	270	9	3	3.000	n/a	4	4	3	71	270		
16	Total Petroleum Hydrocarbons	mg/L	6 Monthly	n/a	<0.01		<0.01		n/a	2	4	<0.01	<0.01	<0.01		
16	Zinc	mg/L	Annually	n/a			0.005		n/a	1	4	0.005	0.005	0.005		
G3a	17	Alkalinity (as calcium carbonate)	mg/L	6 Monthly	n/a	890		930		n/a	2	4	890	910	930	
	17	Aluminium	mg/L	Annually	n/a			<0.01		n/a	1	2	<0.01	<0.01	<0.01	
	17	Arsenic	mg/L	Annually	n/a			<0.001		n/a	1	2	<0.001	<0.001	<0.001	
	17	Barium	mg/L	Annually	n/a			44		n/a	1	2	44	44	44	
	17	Benzene	mg/L	Annually	n/a			0.002		n/a	1	2	0.002	0.002	0.002	
	17	Cadmium	mg/L	Annually	n/a			<0.0001		n/a	1	2	<0.0001	<0.0001	<0.0001	
	17	Calcium	mg/L	6 Monthly	n/a	420		380		n/a	2	4	380	400	420	
	17	Chloride	mg/L	6 Monthly	n/a	5600		6100		n/a	2	4	5600	5850	6100	
	17	Chromium	mg/L	Annually	n/a			0.002		n/a	1	2	0.002	0.002	0.002	
	17	Conductivity	µS/cm	6 Monthly	n/a	18023	14955	18450	17761	n/a	2	4	14955	17297	18450	
	17	Copper	mg/L	Annually	n/a			0.015		n/a	1	2	0.015	0.015	0.015	
	17	Dissolved Oxygen	mg/L	6 Monthly	n/a	0.41	0.48	3.04	0.61	n/a	2	4	0.41	1.14	3.04	
	17	Fluoride	mg/L	6 Monthly	n/a	0.2		0.2		n/a	2	4	0.20	0.20	0.20	
	17	Iron	mg/L	Annually	n/a			0.09		n/a	1	2	0.09	0.09	0.09	
	17	Lead	mg/L	Annually	n/a			<0.001		n/a	1	2	<0.001	<0.001	<0.001	
	17	Magnesium	mg/L	6 Monthly	n/a	350		330		n/a	2	4	330	340	350	
	17	Manganese	mg/L	Annually	n/a			0.22		n/a	1	2	0.22	0.22	0.22	
	17	Mercury	mg/L	Annually	n/a			*	<0.00005	n/a	1	2	<0.05	<0.05	<0.05	
	17	Nickel	mg/L	Annually	n/a			0.001		n/a	1	2	0.001	0.001	0.001	
	17	Nitrate	mg/L	6 Monthly	n/a	<0.005		0.02		n/a	2	4	<0.005	0.02	0.02	

Location Name	EPA Monitoring Point No.	Pollutant	Unit of measure	Frequency	EPL Limit	13/03/2024	1/06/2024	19/09/2024	11/12/2024	Exceedance (Y/N)	No. of samples required by licence	No. of samples collected and analysed	Lowest Sample Value	Mean Sample Value	Highest Sample Value	Comments
	17	Nitrite	mg/L	6 Monthly	n/a	<0.005		<0.005		n/a	2	4	<0.005	<0.005	<0.005	
	17	Nitrogen (ammonia)	mg/L	Quarterly	15	6	6.1	7.7	6.5	N	4	4	6.00	6.58	7.70	
	17	Nitrogen (Total)	mg/L	6 Monthly	n/a	6.6		8.2		n/a	2	4	6.60	7.40	8.20	
	17	pH	pH Unit	6 Monthly	n/a	6.46	6.69	6.69	7.03	n/a	2	4	6.46	6.72	7.03	
	17	Phenols	mg/L	6 Monthly	n/a	<0.05		<0.05		n/a	2	4	<0.05	<0.05	<0.05	
	17	Phosphorus (Total)	mg/L	6 Monthly	n/a	<0.05		<0.05		n/a	2	4	<0.05	<0.05	<0.05	
	17	Polycyclic Aromatic Hydrocarbons	mg/L	6 Monthly	n/a	0.0002		0.0002		n/a	2	3	0.0002	0.0002	0.0002	
	17	Potassium	mg/L	6 Monthly	n/a	63		66		n/a	2	4	63	65	66	
	17	Redox potential	mV	6 Monthly	n/a	-187	71.8	-118	-191.4	n/a	2	4	-191	-106	72	
	17	Selenium	mg/L	6 Monthly	n/a	<0.001		<0.001		n/a	2	4	<0.001	<0.001	<0.001	
	17	Silver	mg/L	6 Monthly	n/a	<0.001		<0.001		n/a	2	4	<0.001	<0.001	<0.001	
	17	Sodium	mg/L	6 Monthly	n/a	3300		2900		n/a	2	4	2900	3100	3300	
	17	Standing Water Level	Metres	Quarterly	n/a	13.5	13.4	5.56	0.11	n/a	4	4	0.11	8.14	13.50	
	17	Sulfate	mg/L	6 Monthly	n/a	5		3		n/a	2	4	3	4	5	
	17	Total organic carbon	mg/L	Quarterly	n/a	140	5	4	8.000	n/a	4	4	4	39	140	
	17	Total Petroleum Hydrocarbons	mg/L	6 Monthly	n/a	<0.1		<0.01		n/a	2	4	<0.01	<0.01	<0.01	
	17	Zinc	mg/L	Annually	n/a			0.018		n/a	1	4	0.018	0.018	0.018	
	18	Alkalinity (as calcium carbonate)	mg/L	6 Monthly	n/a	900		870		n/a	2	4	870	885	900	
	18	Aluminium	mg/L	Annually	n/a			<0.01		n/a	1	3	<0.01	<0.01	<0.01	
	18	Arsenic	mg/L	Annually	n/a			<0.001		n/a	1	3	<0.001	<0.001	<0.001	
	18	Barium	mg/L	Annually	n/a			0.076		n/a	1	3	0.076	0.076	0.076	
	18	Benzene	mg/L	Annually	n/a			<0.001		n/a	1	3	<0.001	<0.001	<0.001	
	18	Cadmium	mg/L	Annually	n/a			<0.0001		n/a	1	3	<0.0001	<0.0001	<0.0001	
	18	Calcium	mg/L	6 Monthly	n/a	260		270		n/a	2	4	260	265	270	
	18	Chloride	mg/L	6 Monthly	n/a	8100		9200		n/a	2	4	8100	8650	9200	
	18	Chromium	mg/L	Annually	n/a			<0.001		n/a	1	3	<0.001	<0.001	<0.001	
	18	Conductivity	µS/cm	6 Monthly	n/a	5841	21147	27251	20462	n/a	2	4	5841	18675	27251	
	18	Copper	mg/L	Annually	n/a			0.013		n/a	1	3	0.0	0.0	0.0	
	18	Dissolved Oxygen	mg/L	6 Monthly	n/a	8.22	1.57	2.12	1.65	n/a	2	4	1.6	3.4	8.2	
	18	Fluoride	mg/L	6 Monthly	n/a	0.5		0.5		n/a	2	4	0.5	0.5	0.5	
	18	Iron	mg/L	Annually	n/a			1.4		n/a	1	3	1.4	1.4	1.4	
	18	Lead	mg/L	Annually	n/a			0.001		n/a	1	3	0.001	0.001	0.001	
	18	Magnesium	mg/L	6 Monthly	n/a	760		730		n/a	2	4	730	745	760	
	18	Manganese	mg/L	Annually	n/a			0.21		n/a	1	3	0.21	0.21	0.21	
	18	Mercury	mg/L	Annually	n/a			*	<0.00005	n/a	1	3	<0.05	<0.05	<0.05	
	18	Nickel	mg/L	Annually	n/a			<0.001		n/a	1	3	<0.001	<0.001	<0.001	
	18	Nitrate	mg/L	6 Monthly	n/a	<0.005		<0.005		n/a	2	4	<0.005	<0.005	<0.005	
	18	Nitrite	mg/L	6 Monthly	n/a	<0.005		<0.005		n/a	2	4	<0.005	<0.005	<0.005	
	18	Nitrogen (ammonia)	mg/L	Quarterly	15	2.8	3	3.9	3	N	4	4	2.80	3.18	3.90	
	18	Nitrogen (Total)	mg/L	6 Monthly	n/a	3		4.2		n/a	2	4	3.00	3.60	4.20	
	18	pH	pH Unit	6 Monthly	n/a	6.95	6.67	6.64	7.24	n/a	2	4	6.64	6.88	7.24	
	18	Phenols	mg/L	6 Monthly	n/a	<0.05		<0.05		n/a	2	4	<0.05	<0.05	<0.05	
	18	Phosphorus (Total)	mg/L	6 Monthly	n/a	<0.05		0.05		n/a	2	4	0.05	0.05	0.05	
	18	Polycyclic Aromatic Hydrocarbons	mg/L	6 Monthly	n/a	<0.0001		<0.0001		n/a	2	4	<0.0001	<0.0001	<0.0001	
	18	Potassium	mg/L	6 Monthly	n/a	50		55		n/a	2	4	50	53	55	
	18	Redox potential	mV	6 Monthly	n/a	-202	91.9	164	-117.6	n/a	2	4	-202	-16	164	
	18	Selenium	mg/L	6 Monthly	n/a	<0.001		<0.001		n/a	2	4	<0.001	<0.001	<0.001	
	18	Silver	mg/L	6 Monthly	n/a	<0.001		<0.001		n/a	2	4	<0.001	<0.001	<0.001	
	18	Sodium	mg/L	6 Monthly	n/a	5200		4900		n/a	2	4	4900	5050	5200	
	18	Standing Water Level	Metres	Quarterly	n/a	1.5	6.75	1.86	0.83	n/a	4	4	0.83	2.74	6.75	
	18	Sulfate	mg/L	6 Monthly	n/a	620		680		n/a	2	4	620	650	680	
	18	Total organic carbon	mg/L	Quarterly	n/a	130	6	2	2.000	n/a	4	4	2	35	130	
	18	Total Petroleum Hydrocarbons	mg/L	6 Monthly	n/a	<0.1		<0.1		n/a	2	4	<0.1	<0.1	<0.1	
	18	Zinc	mg/L	Annually	n/a			0.002		n/a	1	4	0.002	0.002	0.002	
	19	Alkalinity (as calcium carbonate)	mg/L	6 Monthly	n/a	770		720		n/a	2	4	720	745	770	
	19	Aluminium	mg/L	Annually	n/a			0.02		n/a	1	2	0.02	0.02	0.02	
	19	Arsenic	mg/L	Annually	n/a			<0.001		n/a	1	2	<0.001	<0.001	<0.001	
	19	Barium	mg/L	Annually	n/a			0.03		n/a	1	2	0.03	0.03	0.03	
	19	Benzene	mg/L	Annually	n/a			<0.001		n/a	1	2	<0.001	<0.001	<0.001	
	19	Cadmium	mg/L	Annually	n/a			<0.0001		n/a	1	2	<0.0001	<0.0001	<0.0001	
	19	Calcium	mg/L	6 Monthly	n/a	97		75		n/a	2	4	75	86	97	
	19	Chloride	mg/L	6 Monthly	n/a	3400		3600		n/a	2	4	3400	3500	3600	
	19	Chromium	mg/L	Annually	n/a			0.001		n/a	1	2	0.001	0.001	0.001	
	19	Conductivity	µS/cm	6 Monthly	n/a	3289	9419	12520	12121	n/a	2	4	3289	9337	12520	
	19	Copper	mg/L	Annually	n/a			0.016		n/a	1	2	0.016	0.016	0.016	
	19	Dissolved Oxygen	mg/L	6 Monthly	n/a	7.89	3.16	8.84	4.09	n/a	2	4	3.16	6.00	8.84	
	19	Fluoride	mg/L	6 Monthly	n/a	0.5		0.4		n/a	2	4	0.40	0.45	0.50	
	19	Iron	mg/L	Annually	n/a			0.01		n/a	1	2	0.01	0.01	0.01	
	19	Lead	mg/L	Annually	n/a			<0.001		n/a	1	2	<0.001	<0.001	<0.001	
	19	Magnesium	mg/L	6 Monthly	n/a	210		200		n/a	2	4	200	205	210	

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G5	19	Manganese	mg/L	Annually	n/a			<0.005		n/a	1	2	<0.005	<0.005	<0.005	
	19	Mercury	mg/L	Annually	n/a			*	<0.00005	n/a	1	2	<0.05	<0.05	<0.05	
	19	Nickel	mg/L	Annually	n/a			0.002		n/a	1	2	0.00	0.00	0.00	
	19	Nitrate	mg/L	6 Monthly	n/a	0.43		0.03		n/a	2	4	0.03	0.23	0.43	
	19	Nitrite	mg/L	6 Monthly	n/a	0.07		0.012		n/a	2	4	0.01	0.04	0.07	
	19	Nitrogen (ammonia)	mg/L	Quarterly	15	0.23	0.2	0.2	0.044	N	4	4	0.04	0.17	0.23	
	19	Nitrogen (Total)	mg/L	6 Monthly	n/a	0.8		0.5		n/a	2	4	0.50	0.65	0.80	
	19	pH	pH Unit	6 Monthly	n/a	7.96	7.18	8.3	8.87	n/a	2	4	7.18	8.08	8.87	
	19	Phenols	mg/L	6 Monthly	n/a	<0.05		<0.05		n/a	2	4	<0.05	<0.05	<0.05	
	19	Phosphorus (Total)	mg/L	6 Monthly	n/a	1		0.1		n/a	2	4	0.1	0.6	1.0	
	19	Polycyclic Aromatic Hydrocarbons	mg/L	6 Monthly	n/a	<0.0001		<0.0001		n/a	2	3	<0.0001	<0.0001	<0.0001	
	19	Potassium	mg/L	6 Monthly	n/a	14		8		n/a	2	4	8	11	14	
	19	Redox potential	mV	6 Monthly	n/a	-70	99.2	152	-108.2	n/a	2	4	-108.2	18.3	152.0	
	19	Selenium	mg/L	6 Monthly	n/a	<0.001		<0.001		n/a	2	4	<0.001	<0.001	<0.001	
	19	Silver	mg/L	6 Monthly	n/a	<0.001		<0.001		n/a	2	4	<0.001	<0.001	<0.001	
	19	Sodium	mg/L	6 Monthly	n/a	2500		2200		n/a	2	4	2200	2350	2500	
	19	Standing Water Level	Metres	Quarterly	n/a	3.99	6.84	8.74	10.82	n/a	4	4	3.99	7.60	10.82	
	19	Sulfate	mg/L	6 Monthly	n/a	610		660		n/a	2	4	610	635	660	
	19	Total organic carbon	mg/L	Quarterly	n/a	130	7	5	5.000	n/a	4	4	5	37	130	
19	Total Petroleum Hydrocarbons	mg/L	6 Monthly	n/a	<0.01		<0.01		n/a	2	4	<0.01	<0.01	<0.01		
19	Zinc	mg/L	Annually	n/a			0.004		n/a	1	4	0.004	0.004	0.004		
G6	20	Alkalinity (as calcium carbonate)	mg/L	6 Monthly	n/a	400		480		n/a	2	4	400	440	480	
	20	Aluminium	mg/L	Annually	n/a			0.02		n/a	1	3	0.02	0.02	0.02	
	20	Arsenic	mg/L	Annually	n/a			0.007		n/a	1	3	0.007	0.007	0.007	
	20	Barium	mg/L	Annually	n/a			0.083		n/a	1	3	0.083	0.083	0.083	
	20	Benzene	mg/L	Annually	n/a			<0.001		n/a	1	3	<0.001	<0.001	<0.001	
	20	Cadmium	mg/L	Annually	n/a			<0.0001		n/a	1	3	<0.0001	<0.0001	<0.0001	
	20	Calcium	mg/L	6 Monthly	n/a	130		140		n/a	2	4	130	135	140	
	20	Chloride	mg/L	6 Monthly	n/a	4000		4100		n/a	2	4	4000	4050	4100	
	20	Chromium	mg/L	Annually	n/a			<0.001		n/a	1	3	<0.001	<0.001	<0.001	
	20	Conductivity	µS/cm	6 Monthly	n/a	12754	10819	14017	12946	n/a	2	4	10819	12634	14017	
	20	Copper	mg/L	Annually	n/a			0.01		n/a	1	3	0.01	0.01	0.01	
	20	Dissolved Oxygen	mg/L	6 Monthly	n/a	0.47	0.96	3.35	1.4	n/a	2	4	0.47	1.55	3.35	
	20	Fluoride	mg/L	6 Monthly	n/a	0.2		0.3		n/a	2	4	0.20	0.25	0.30	
	20	Iron	mg/L	Annually	n/a			6.3		n/a	1	3	6.30	6.30	6.30	
	20	Lead	mg/L	Annually	n/a			<0.001		n/a	1	3	<0.001	<0.001	<0.001	
	20	Magnesium	mg/L	6 Monthly	n/a	260		240		n/a	2	4	240	250	260	
	20	Manganese	mg/L	Annually	n/a			0.31		n/a	1	3	0.31	0.31	0.31	
	20	Mercury	mg/L	Annually	n/a			*	<0.00005	n/a	1	3	<0.05	<0.05	<0.05	
	20	Nickel	mg/L	Annually	n/a			0.003		n/a	1	3	0.00	0.00	0.00	
	20	Nitrate	mg/L	6 Monthly	n/a	0.01		<0.005		n/a	2	4	0.01	0.01	0.01	
	20	Nitrite	mg/L	6 Monthly	n/a	<0.005		<0.005		n/a	2	4	<0.005	<0.005	<0.005	
	20	Nitrogen (ammonia)	mg/L	Quarterly	15	1	2.2	3.5	2.6	N	4	4	1.00	2.33	3.50	
	20	Nitrogen (Total)	mg/L	6 Monthly	n/a	1.3		4.3		n/a	2	4	1.30	2.80	4.30	
	20	pH	pH Unit	6 Monthly	n/a	6.38	6.46	6.83	7.54	n/a	2	4	6.38	6.80	7.54	
	20	Phenols	mg/L	6 Monthly	n/a	<0.05		<0.05		n/a	2	4	<0.05	<0.05	<0.05	
	20	Phosphorus (Total)	mg/L	6 Monthly	n/a	<0.05		<0.05		n/a	2	4	<0.05	<0.05	<0.05	
	20	Polycyclic Aromatic Hydrocarbons	mg/L	6 Monthly	n/a	<0.0001		<0.0001		n/a	2	4	<0.0001	<0.0001	<0.0001	
	20	Potassium	mg/L	6 Monthly	n/a	22		30		n/a	2	4	22	26	30	
	20	Redox potential	mV	6 Monthly	n/a	-145	1341	32.5	-131.2	n/a	2	4	-145	274	1341	
	20	Selenium	mg/L	6 Monthly	n/a	<0.001		<0.001		n/a	2	4	<0.001	<0.001	<0.001	
	20	Silver	mg/L	6 Monthly	n/a	<0.001		<0.001		n/a	2	4	<0.001	<0.001	<0.001	
	20	Sodium	mg/L	6 Monthly	n/a	2500		2200		n/a	2	4	2200	2350	2500	
20	Standing Water Level	Metres	Quarterly	n/a	1.75	2.26	2.3	2.96	n/a	4	4	1.8	2.3	3.0		
20	Sulfate	mg/L	6 Monthly	n/a	380		350		n/a	2	4	350	365	380		
20	Total organic carbon	mg/L	Quarterly	n/a	95	6	3	3.000	n/a	4	4	3	27	95		
20	Total Petroleum Hydrocarbons	mg/L	6 Monthly	n/a	<0.01		<0.01		n/a	2	4	<0.01	<0.01	<0.01		
20	Zinc	mg/L	Annually	n/a			0.004		n/a	1	4	0.004	0.004	0.004		
G7	21	Alkalinity (as calcium carbonate)	mg/L	6 Monthly	n/a	520		500		n/a	2	4	500	510	520	
	21	Aluminium	mg/L	Annually	n/a			0.04		n/a	1	3	0.04	0.04	0.04	
	21	Arsenic	mg/L	Annually	n/a			<0.001		n/a	1	3	<0.001	<0.001	<0.001	
	21	Barium	mg/L	Annually	n/a			0.033		n/a	1	3	0.03	0.03	0.03	
	21	Benzene	mg/L	Annually	n/a			<0.001		n/a	1	3	<0.001	<0.001	<0.001	
	21	Cadmium	mg/L	Annually	n/a			<0.0001		n/a	1	3	<0.0001	<0.0001	<0.0001	
	21	Calcium	mg/L	6 Monthly	n/a	310		280		n/a	2	4	280	295	310	
	21	Chloride	mg/L	6 Monthly	n/a	8500		9200		n/a	2	4	8500	8850	9200	
	21	Chromium	mg/L	Annually	n/a			0.002		n/a	1	3	0.002	0.002	0.002	
	21	Conductivity	µS/cm	6 Monthly	n/a	26274	5217	27348	26258	n/a	2	4	5217	21274	27348	
	21	Copper	mg/L	Annually	n/a			0.004		n/a	1	3	0.00	0.00	0.00	
	21	Dissolved Oxygen	mg/L	6 Monthly	n/a	3.21	1.27	4.13	1.49	n/a	2	4	1.27	2.53	4.13	
21	Fluoride	mg/L	6 Monthly	n/a	0.3		0.3		n/a	2	4	0.30	0.30	0.30		

Location Name	EPA Monitoring Point No.	Pollutant	Unit of measure	Frequency	EPL Limit	13/03/2024	1/06/2024	19/09/2024	11/12/2024	Exceedance (Y/N)	No. of samples required by licence	No. of samples collected and analysed	Lowest Sample Value	Mean Sample Value	Highest Sample Value	Comments
G7	21	Iron	mg/L	Annually	n/a			1.8		n/a	1	3	1.80	1.80	1.80	
	21	Lead	mg/L	Annually	n/a			<0.001		n/a	1	3	<0.001	<0.001	<0.001	
	21	Magnesium	mg/L	6 Monthly	n/a	1000		970		n/a	2	4	970	985	1000	
	21	Manganese	mg/L	Annually	n/a			1.6		n/a	1	3	1.60	1.60	1.60	
	21	Mercury	mg/L	Annually	n/a			*	<0.00005	n/a	1	3	<0.05	<0.05	<0.05	
	21	Nickel	mg/L	Annually	n/a			0.022		n/a	1	3	0.02	0.02	0.02	

Location Name	EPA Monitoring Point No.	Pollutant	Unit of measure	Frequency	EPL Limit	13/03/2024	1/06/2024	19/09/2024	11/12/2024	Exceedance (Y/N)	No. of samples required by licence	No. of samples collected and analysed	Lowest Sample Value	Mean Sample Value	Highest Sample Value	Comments
	21	Nitrate	mg/L	6 Monthly	n/a	0.79		0.02		n/a	2	4	0.02	0.41	0.79	
	21	Nitrite	mg/L	6 Monthly	n/a	<0.005		<0.005		n/a	2	4	<0.005	<0.005	<0.005	
	21	Nitrogen (ammonia)	mg/L	Quarterly	15	0.28	0.99	1.1	1.1	N	4	4	0.28	0.87	1.10	
	21	Nitrogen (Total)	mg/L	6 Monthly	n/a	1		1.2		n/a	2	4	1.00	1.10	1.20	
	21	pH	pH Unit	6 Monthly	n/a	6.37	6.29	6.32	6.72	n/a	2	4	6.29	6.43	6.72	
	21	Phenols	mg/L	6 Monthly	n/a	<0.05		<0.05		n/a	2	4	<0.05	<0.05	<0.05	
	21	Phosphorus (Total)	mg/L	6 Monthly	n/a	0.2		<0.05		n/a	2	4	0.20	0.20	0.20	
	21	Polycyclic Aromatic Hydrocarbons	mg/L	6 Monthly	n/a	<0.0001		<0.0001		n/a	2	4	<0.0001	<0.0001	<0.0001	
	21	Potassium	mg/L	6 Monthly	n/a	23		21		n/a	2	4	21	22	23	
	21	Redox potential	mV	6 Monthly	n/a	-142	126.1	215	-75.8	n/a	2	4	-142	31	215	
	21	Selenium	mg/L	6 Monthly	n/a	<0.001		<0.001		n/a	2	4	<0.001	<0.001	<0.001	
	21	Silver	mg/L	6 Monthly	n/a	<0.001		<0.001		n/a	2	4	<0.001	<0.001	<0.001	
	21	Sodium	mg/L	6 Monthly	n/a	4900		4600		n/a	2	4	4600	4750	4900	
	21	Standing Water Level	Metres	Quarterly	n/a	7.94	8.91	9.37	9.8	n/a	4	4	7.94	9.01	9.80	
	21	Sulfate	mg/L	6 Monthly	n/a	1000		1100		n/a	2	4	1000	1050	1100	
	21	Total organic carbon	mg/L	Quarterly	n/a	100	2	2	2.000	n/a	4	4	2	27	100	
	21	Total Petroleum Hydrocarbons	mg/L	6 Monthly	n/a	<0.01		<0.01		n/a	2	4	<0.01	<0.01	<0.01	
	21	Zinc	mg/L	Annually	n/a			0.027		n/a	1	4	0.027	0.027	0.027	
	22	Alkalinity (as calcium carbonate)	mg/L	6 Monthly	n/a	1000		1000		n/a	2	4	1000	1000	1000	
	22	Aluminium	mg/L	Annually	n/a			0.04		n/a	1	3	0.04	0.04	0.04	
	22	Arsenic	mg/L	Annually	n/a			<0.001		n/a	1	3	<0.001	<0.001	<0.001	
	22	Barium	mg/L	Annually	n/a			40		n/a	1	3	40	40	40	
	22	Benzene	mg/L	Annually	n/a			<0.001		n/a	1	3	<0.001	<0.001	<0.001	
	22	Cadmium	mg/L	Annually	n/a			<0.0001		n/a	1	3	<0.0001	<0.0001	<0.0001	
	22	Calcium	mg/L	6 Monthly	n/a	300		290		n/a	2	4	290	295	300	
	22	Chloride	mg/L	6 Monthly	n/a	5200		5400		n/a	2	4	5200	5300	5400	
	22	Chromium	mg/L	Annually	n/a			0.002		n/a	1	3	0.002	0.002	0.002	
	22	Conductivity	µS/cm	6 Monthly	n/a	16230	13569	16972	16030	n/a	2	4	13569	15700	16972	
	22	Copper	mg/L	Annually	n/a			0.006		n/a	1	3	0.006	0.006	0.006	
	22	Dissolved Oxygen	mg/L	6 Monthly	n/a	1.4	2.06	3.48	1.48	n/a	2	4	1.40	2.11	3.48	
	22	Fluoride	mg/L	6 Monthly	n/a	0.3		0.3		n/a	2	4	0.30	0.30	0.30	
	22	Iron	mg/L	Annually	n/a			5.8		n/a	1	3	5.80	5.80	5.80	
	22	Lead	mg/L	Annually	n/a			<0.001		n/a	1	3	<0.001	<0.001	<0.001	
	22	Magnesium	mg/L	6 Monthly	n/a	300		300		n/a	2	4	300	300	300	
	22	Manganese	mg/L	Annually	n/a			0.07		n/a	1	3	0.07	0.07	0.07	
	22	Mercury	mg/L	Annually	n/a			*	<0.00005	n/a	1	3	<0.05	<0.05	<0.05	
	22	Nickel	mg/L	Annually	n/a			0.003		n/a	1	3	0.00	0.00	0.00	
	22	Nitrate	mg/L	6 Monthly	n/a	<0.005		0.68		n/a	2	4	0.68	0.68	0.68	
	22	Nitrite	mg/L	6 Monthly	n/a	<0.005		<0.005		n/a	2	4	<0.005	<0.005	<0.005	
	22	Nitrogen (ammonia)	mg/L	Quarterly	15	5.9	5.7	6.5	5.8	N	4	4	5.70	5.98	6.50	
	22	Nitrogen (Total)	mg/L	6 Monthly	n/a	6.5		7.4		n/a	2	4	6.50	6.95	7.40	
	22	pH	pH Unit	6 Monthly	n/a	6.4	6.68	6.82	7.51	n/a	2	4	6.40	6.85	7.51	
	22	Phenols	mg/L	6 Monthly	n/a	<0.05		<0.05		n/a	2	4	<0.05	<0.05	<0.05	
	22	Phosphorus (Total)	mg/L	6 Monthly	n/a	0.06		0.08		n/a	2	4	0.06	0.07	0.08	
	22	Polycyclic Aromatic Hydrocarbons	mg/L	6 Monthly	n/a	0.00038		0.00025		n/a	2	4	0.00025	0.00032	0.00038	
	22	Potassium	mg/L	6 Monthly	n/a	58		59		n/a	2	4	58	59	59	
	22	Redox potential	mV	6 Monthly	n/a	-161	1048	-19	-146.7	n/a	2	4	-161	180	1048	
	22	Selenium	mg/L	6 Monthly	n/a	<0.001		<0.001		n/a	2	4	<0.001	<0.001	<0.001	
	22	Silver	mg/L	6 Monthly	n/a	<0.001		<0.001		n/a	2	4	<0.001	<0.001	<0.001	
	22	Sodium	mg/L	6 Monthly	n/a	3000		2800		n/a	2	4	2800	2900	3000	
	22	Standing Water Level	Metres	Quarterly	n/a	6.95	8.09	12.78	1.31	n/a	4	4	1.31	7.28	12.78	
	22	Sulfate	mg/L	6 Monthly	n/a	<1		4		n/a	2	4	4	4	4	
	22	Total organic carbon	mg/L	Quarterly	n/a	180	5	9	5.000	n/a	4	4	5	50	180	
	22	Total Petroleum Hydrocarbons	mg/L	6 Monthly	n/a	<0.01		<0.01		n/a	2	4	<0.01	<0.01	<0.01	
	22	Zinc	mg/L	Annually	n/a			0.045		n/a	1	3	0.045	0.045	0.045	
	54	Alkalinity (as calcium carbonate)	mg/L	6 Monthly	n/a	1000		1200		n/a	2	4	1000	1100	1200	
	54	Aluminium	mg/L	Annually	n/a			0.01		n/a	1	2	0.01	0.01	0.01	
	54	Arsenic	mg/L	Annually	n/a			0.001		n/a	1	2	0.001	0.001	0.001	
	54	Barium	mg/L	Annually	n/a			0.27		n/a	1	2	0.27	0.27	0.27	
	54	Benzene	mg/L	Annually	n/a			<0.001		n/a	1	2	<0.001	<0.001	<0.001	
	54	Cadmium	mg/L	Annually	n/a			<0.0001		n/a	1	2	<0.0001	<0.0001	<0.0001	
	54	Calcium	mg/L	6 Monthly	n/a	140		170		n/a	2	4	140	155	170	
	54	Chloride	mg/L	6 Monthly	n/a	4400		4700		n/a	2	4	4400	4550	4700	
	54	Chromium	mg/L	Annually	n/a			0.001		n/a	1	2	0.001	0.001	0.001	
	54	Conductivity	µS/cm	6 Monthly	n/a	2535	12157	14119	14613	n/a	2	4	2535	10856	14613	
	54	Copper	mg/L	Annually	n/a			0.01		n/a	1	2	0.01	0.01	0.01	
	54	Dissolved Oxygen	mg/L	6 Monthly	n/a	7.41	0.71	9.27	1.84	n/a	2	4	0.71	4.81	9.27	
	54	Fluoride	mg/L	6 Monthly	n/a	0.6		0.6		n/a	2	4	0.60	0.60	0.60	
	54	Iron	mg/L	Annually	n/a			0.03		n/a	1	2	0.03	0.03	0.03	
	54	Lead	mg/L	Annually	n/a			<0.001		n/a	1	2	<0.001	<0.001	<0.001	
	54	Magnesium	mg/L	6 Monthly	n/a	390		380		n/a	2	4	380	385	390	

Location Name	EPA Monitoring Point No.	Pollutant	Unit of measure	Frequency	EPL Limit	13/03/2024	1/06/2024	19/09/2024	11/12/2024	Exceedance (Y/N)	No. of samples required by licence	No. of samples collected and analysed	Lowest Sample Value	Mean Sample Value	Highest Sample Value	Comments
G10	54	Manganese	mg/L	Annually	n/a			0.077		n/a	1	2	0.08	0.08	0.08	
	54	Mercury	mg/L	Annually	n/a			*	<0.00005	n/a	1	2	<0.05	<0.05	<0.05	
	54	Nickel	mg/L	Annually	n/a			0.004		n/a	1	2	0.004	0.004	0.004	
	54	Nitrate	mg/L	6 Monthly	n/a	0.02		0.01		n/a	2	4	0.010	0.015	0.020	
	54	Nitrite	mg/L	6 Monthly	n/a	0.007		0.006		n/a	2	4	0.006	0.007	0.007	
	54	Nitrogen (ammonia)	mg/L	Quarterly	15	1.4	0.91	1.6	0.72	N	4	4	0.72	1.16	1.60	
	54	Nitrogen (Total)	mg/L	6 Monthly	n/a	1.9		2.3		n/a	2	4	1.90	2.10	2.30	
	54	pH	pH Unit	6 Monthly	n/a	7.81	6.77	7.49	7.85	n/a	2	4	6.77	7.48	7.85	
	54	Phenols	mg/L	6 Monthly	n/a	<0.05		<0.05		n/a	2	4	<0.05	<0.05	<0.05	
	54	Phosphorus (Total)	mg/L	6 Monthly	n/a	3		2.2		n/a	2	4	2.2	2.6	3.0	
	54	Polycyclic Aromatic Hydrocarbons	mg/L	6 Monthly	n/a	0.00013		0.00013		n/a	2	3	0	0	0	
	54	Potassium	mg/L	6 Monthly	n/a	27		24		n/a	2	4	24	26	27	
	54	Redox potential	mV	6 Monthly	n/a	-47	670	20.7	-161.4	n/a	2	4	-161	121	670	
	54	Selenium	mg/L	6 Monthly	n/a	<0.001		<0.001		n/a	2	4	<0.001	<0.001	<0.001	
	54	Silver	mg/L	6 Monthly	n/a	<0.001		<0.001		n/a	2	4	<0.001	<0.001	<0.001	
	54	Sodium	mg/L	6 Monthly	n/a	2800		2400		n/a	2	4	2400	2600	2800	
	54	Standing Water Level	Metres	Quarterly	n/a	13.94	13.75	10.98	13.64	n/a	4	4	10.98	13.08	13.94	
	54	Sulfate	mg/L	6 Monthly	n/a	190		190		n/a	2	4	190	190	190	
	54	Total organic carbon	mg/L	Quarterly	n/a	160	3	5	4.000	n/a	4	4	3	43	160	
	54	Total Petroleum Hydrocarbons	mg/L	6 Monthly	n/a	<0.01		<0.01		n/a	2	4	<0.01	<0.01	<0.01	
54	Zinc	mg/L	Annually	n/a			0.004		n/a	1	4	0.004	0.004	0.004		

Note:

"-" Monitoring data not available yet, monitoring yet to be conducted.

"*" Analysis was missed during this monitoring event - scheduled for the December 2024 monitoring event.