

Mt Piper Power Station

Monthly Environment Monitoring Data

Prepared by:
Mt Piper Environment Team

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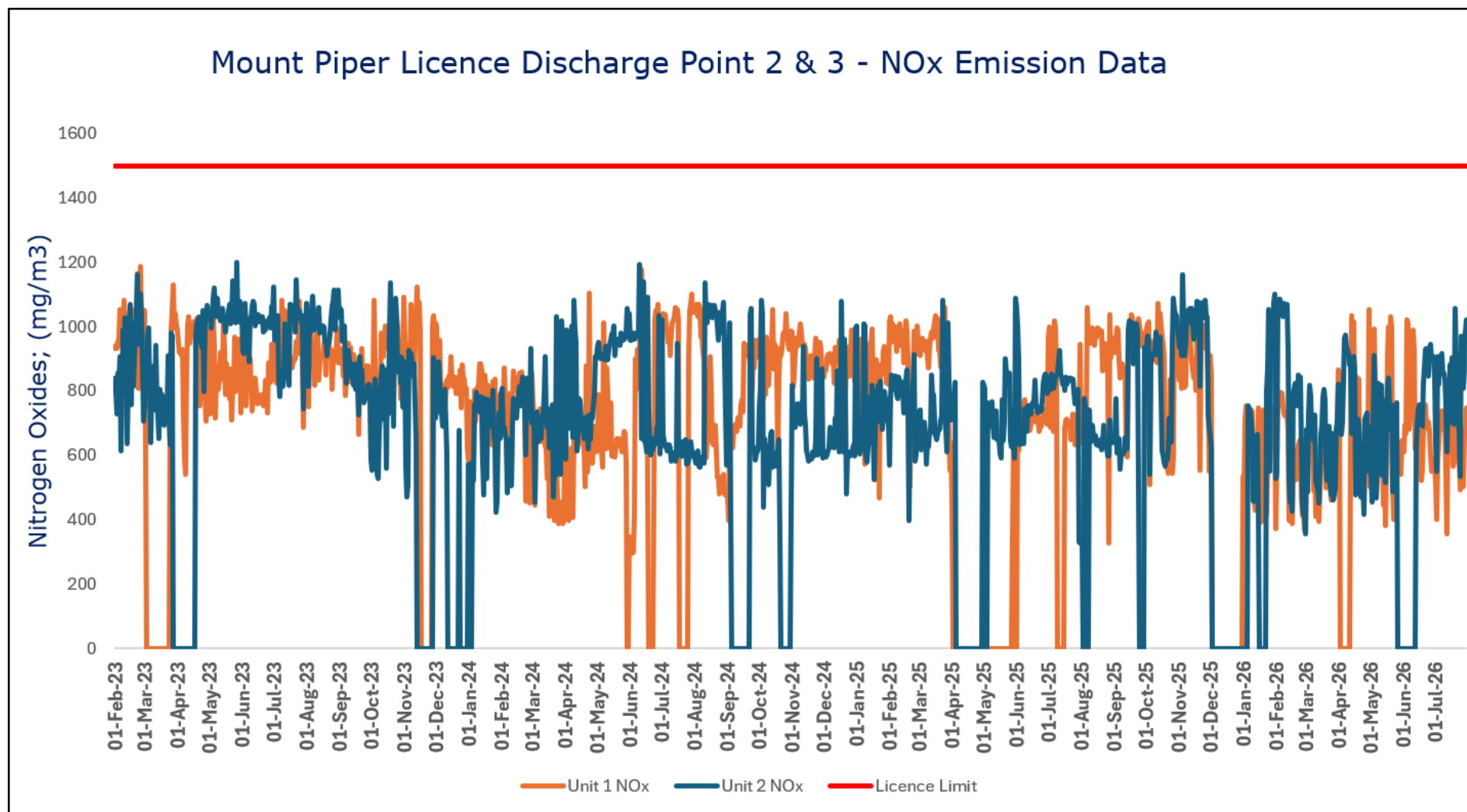
EPL Number: 13007
 EPL Holder: EnergyAustralia NSW
 EPL Name of Facility: MOUNT PIPER POWER STATION
 EPL Address of Facility: 350 BOULDER RD PORTLAND, NSW 2847
 EPL Website link: [Environment & Heritage | POEO Licences, Application and Notice Detail \(nsw.gov.au\)](https://www.environment.nsw.gov.au/poecol/Pages/POEO-Licences-Application-and-Notice-Detail.aspx?Licence=13007)
 EPL Monitoring Locations: <https://www.energyaustralia.com.au/about-us/energy-generation/mt-piper-power-station/mt-piper-epa-reports>
 EPL Unit of measure abbreviations: <https://www.energyaustralia.com.au/about-us/energy-generation/mt-piper-power-station/mt-piper-epa-reports>
 EPL Period monitored: 1 – 31 July 2026
 Monthly Summary Status: Complete: monitoring data obtained.

Table 1: Compliance Summary:

Were all licence monitoring limits met:	YES
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Table 2: Details of any Licence Monitoring Limit not met:

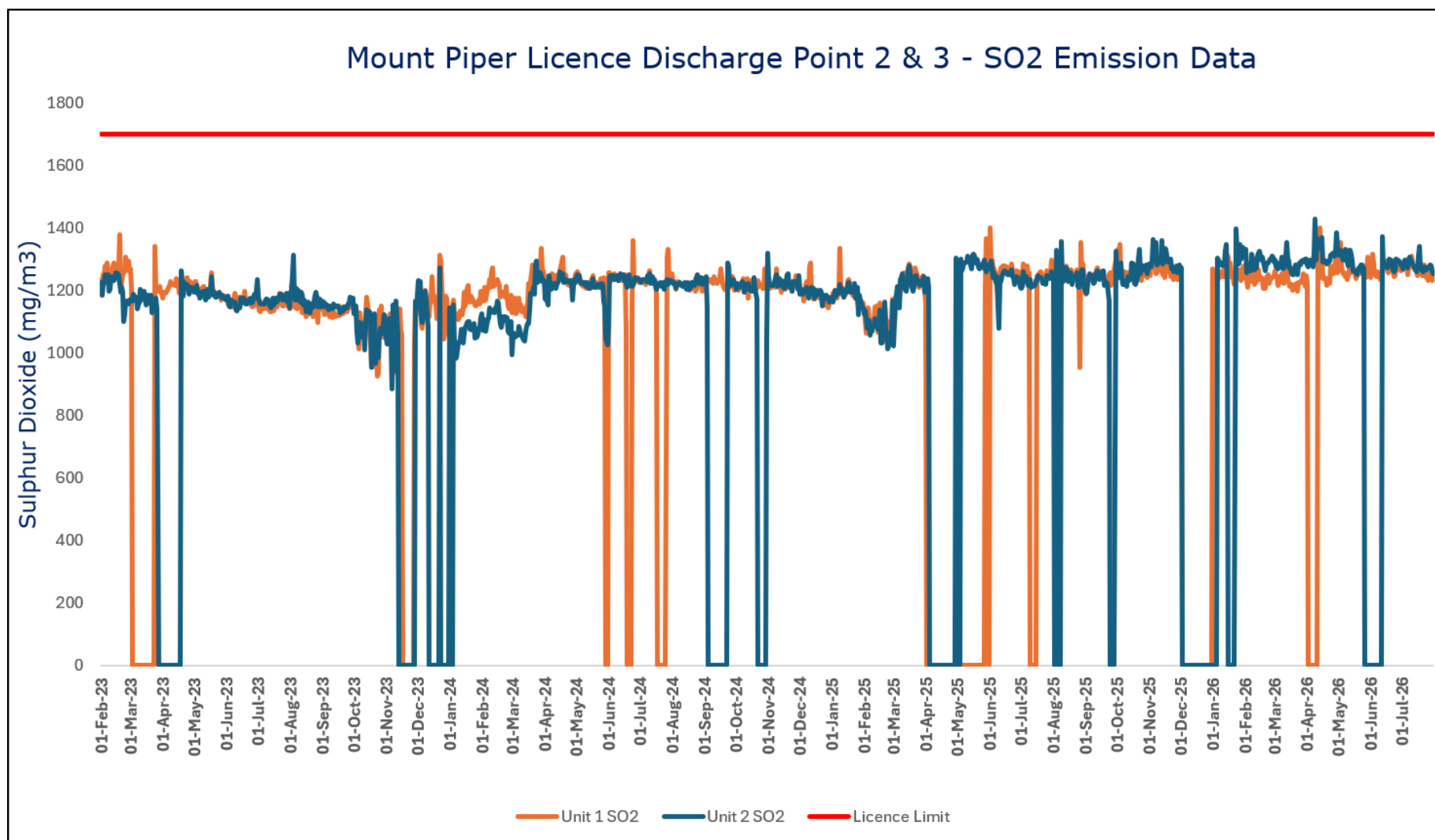
License Point #	Air/Water/Noise	Pollutant	Value measured	Licence limit	Comments
NIL	-	-	-	-	-



Note: Gap in data is due to periods when the unit was shut down, or the monitoring equipment was offline.

Source: Data is obtained from the Continuous Emission Monitoring System.

Figure 1: Nitrogen Dioxide (NO_x) Emission Data

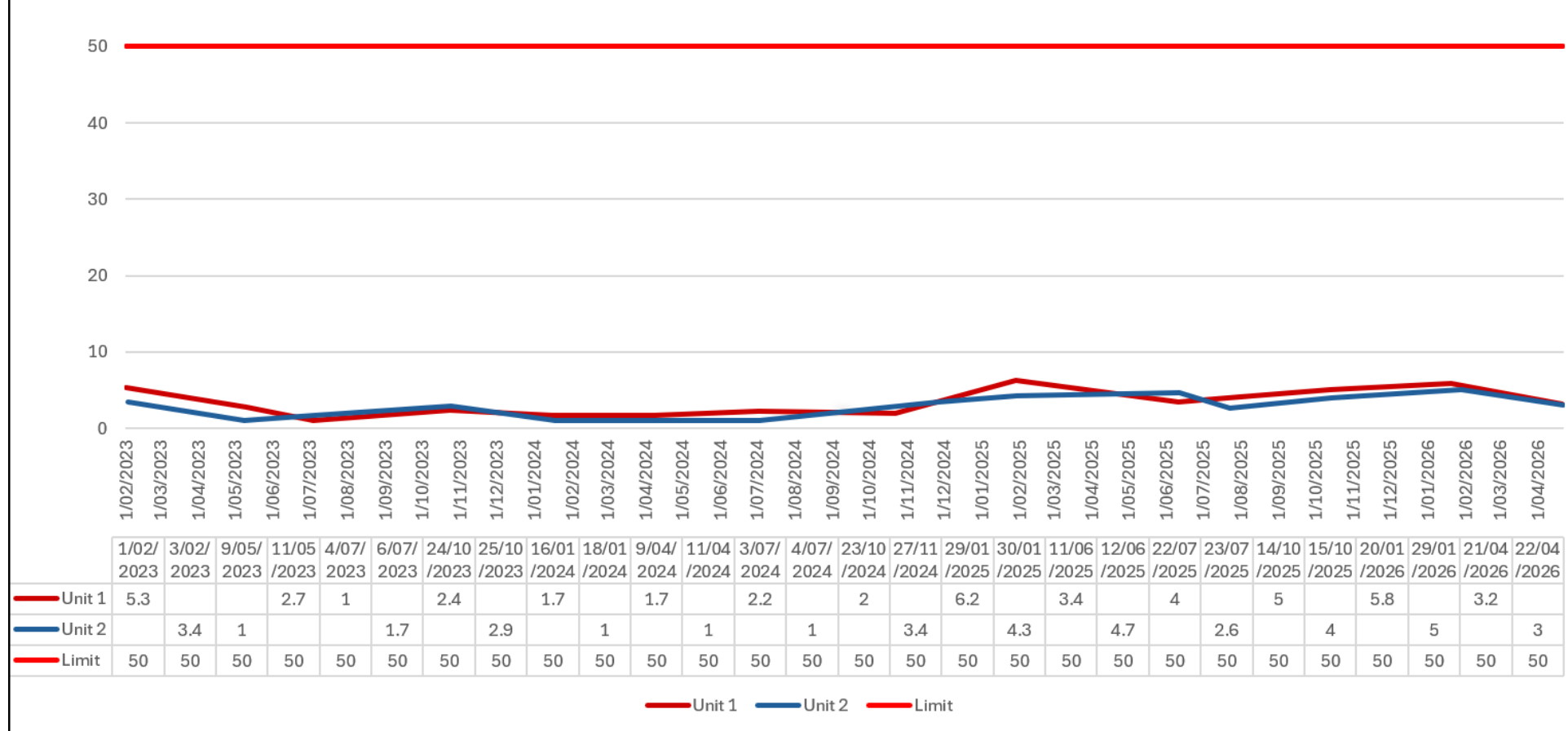


Note: Gap in data is due to periods when the unit was shut down, or the monitoring equipment was offline.

Source: Data is obtained from the Continuous Emission Monitoring System.

Figure 2: Sulphur Dioxide (SO₂) Emission Data

Mount Piper Licence Discharge Point 2 & 3 (Unit 1 and Unit 2): Solid Particles (mg/m³) (Quarterly Stack Tests)



Note: Gap in data is due to periods when the unit was shut down, or the monitoring equipment was offline.

Source: Data is obtained from the Quarterly Stack Testing conducted by Ektimo.

Figure 3: Solid particles Emission Data

Discharge to Water

Table 3: Water Quality at EPL Point 12

2026	Samples required by EPL (1/mth during discharge)	No. of samples during month	Conductivity (µS/cm)		Oil & Grease (mg/L)		pH		Total Suspended Solids (mg/L)		Turbidity (NTU)		Compliant	Comment
			Result	Limit	Result	Limit	Result	Limit	Result	Limit	Result	Limit		
January	1	2	343	500	<5	10	7.66	6.5-8.5	9.67	50	2.2	25	Yes	Flow / Discharge recorded week of 7/01/2026
			369		<5		7.46		10.33		9.7		Yes	Flow / Discharge recorded week of 21/01/2026
February	0	0	NR	500	NR	10	NR	6.5-8.5	NR	50	NR	25	Yes	Not sampled due to no flow / no discharge
March	1	2	313	500	<5	10	7.92	6.5-8.5	4.6	50	6.15	25	Yes	Flow / Discharge recorded week of 13/03/2026
			341		<5		7.84		21.7		13.4		Yes	Flow / Discharge recorded week of 25/03/2026
April	0	0	NR	500	NR	10	NR	6.5-8.5	NR	50	NR	25	Yes	Not sampled due to no flow / no discharge
May	0	0	NR	500	NR	10	NR	6.5-8.5	NR	50	NR	25	Yes	Not sampled due to no flow / no discharge
June	1	2	365	500	<5	10	7.87	6.5-8.5	3.0	50	4.18	25	Yes	Flow / Discharge recorded week of 09/06/2026
			384		<5		7.93		4.4		3.23		Yes	Flow / Discharge recorded week of 25/06/2026
July	1	1	311	500	<5	10	7.82	6.5-8.5	11.4	50	7.4	25	Yes	Flow / Discharge recorded week of 06/07/2026
August														
September														
October														
November														
December														

Air Emissions

Table 4: Nitrogen Oxides (NO_x) Monitoring at EPL Points 2 and 3

2026	No. of samples required by licence	EPL Point	Lowest sample value (mg/m ³ , hourly average)	Mean of sample (mg/m ³)	Highest sample value (mg/m ³ , hourly average)	Limit (mg/m ³ , hourly average)	99 th percentile			Compliant
							Limit (mg/m ³)	87 1-hr averaging periods/yr	1hr averaging periods > limit	
January	Continuous	2	225	418	754	1500	1,100	87	0	Yes
		3	221	498	1100			86	1	Yes
February	Continuous	2	222	432	794	1500	1,100	87	0	Yes
		3	263	549	1086			86	0	Yes
March	Continuous	2	229	403	693	1500	1,100	87	0	Yes
		3	270	444	817			86	0	Yes
April	Continuous	2	254	454	1053	1500	1,100	87	0	Yes
		3	297	524	972			86	0	Yes
May	Continuous	2	237	464	1031	1500	1,100	87	0	Yes
		3	280	484	908			86	0	Yes
June	Continuous	2	237	522	1020	1500	1,100	87	0	Yes
		3	281	597	945			86	0	Yes
July	Continuous	2	228	439	760	1500	1,100	87	0	Yes
		3	243	590	1056			86	0	Yes
August	Continuous	2				1500	1,100			
		3								
September	Continuous	2				1500	1,100			
		3								
October	Continuous	2				1500	1,100			
		3								
November	Continuous	2				1500	1,100			
		3								
December	Continuous	2				1500	1,100			
		3								

Source: Data is obtained from Continuous Emission Monitoring System

Table 5: Sulphur Dioxides (SO₂) Monitoring at EPL Points 2 and 3

2026	No. of samples required by licence	EPL Point	Lowest sample value (mg/m ³ , hourly average)	Mean of sample (mg/m ³)	Highest sample value (mg/m ³ , hourly average)	Limit (mg/m ³ , hourly average)	99 th percentile			Compliant
							Limit (mg/m ³)	87 1-hr averaging periods/yr	1hr averaging periods > limit	
January	Continuous	2	1034	1213	1313	1700	1,400	87	0	Yes
		3	1024	1226	1367			87	0	Yes
February	Continuous	2	949	1194	1269	1700	1,400	87	0	Yes
		3	1017	1207	1295			87	0	Yes
March	Continuous	2	969	1185	1289	1700	1,400	87	0	Yes
		3	932	1191	1292			87	0	Yes
April	Continuous	2	942	1179	1400	1700	1,400	86	1	Yes
		3	941	1197	1373			87	0	Yes
May	Continuous	2	1001	1213	1352	1700	1,400	86	0	Yes
		3	957	1222	1302			87	0	Yes
June	Continuous	2	1134	1232	1315	1700	1,400	86	0	Yes
		3	1137	1251	1372			87	0	Yes
July	Continuous	2	964	1221	1309	1700	1,400	86	0	Yes
		3	1015	1242	1341			87	0	Yes
August	Continuous	2				1700	1,400			
		3								
September	Continuous	2				1700	1,400			
		3								
October	Continuous	2				1700	1,400			
		3								
November	Continuous	2				1700	1,400			
		3								
December	Continuous	2				1700	1,400			
		3								

Source: Data is obtained from the Continuous Emission Monitoring System

Table 6: Oxygen (O₂), Temperature & Moisture Monitoring at EPL Points 2 and 3

2026	No. of samples required by licence	EPL Point	Oxygen			Temperature			Moisture		
			Lowest sample value (%, hourly average)	Mean of sample (%)	Highest sample value (%, hourly average)	Lowest sample value (°C, hourly average)	Mean of sample (°C)	Highest sample value (°C, hourly average)	Lowest sample value (H ₂ O, hourly average)	Mean of sample (H ₂ O)	Highest sample value (H ₂ O, hourly average)
January	Continuous	2	7.6	9.5	13.6	99	115	131	4.1	6.7	8.9
		3	8.0	10.3	14.4	88	112	133	4.2	6.5	9.4
February	Continuous	2	7.5	9.6	13.7	101	116	130	4.2	6.9	8.9
		3	8.5	10.3	14.5	101	113	135	4.2	6.8	8.7
March	Continuous	2	7.9	10.2	13.9	101	113	129	4.2	6.6	9.1
		3	8.6	11	14.6	100	111	130	4.2	6.5	8.9
April	Continuous	2	7.7	10.8	13.9	77	113	127	3.5	5.7	7.9
		3	8.7	11.2	15.8	83	109	125	3.5	5.8	8.1
May	Continuous	2	7.3	9.8	14.0	104	116	130	3.8	6.3	8.4
		3	8.3	10.7	14.7	86	109	124	3.9	6.0	11.9
June	Continuous	2	7.6	9.0	11.6	106	119	128	5.2	6.5	8.0
		3	8.4	9.7	12.2	77	111	121	4.8	6.3	7.6
July	Continuous	2	7.6	9.9	13.9	102	114	128	3.5	5.8	8.0
		3	8.4	10.5	14.3	97	109	122	3.5	5.7	7.7
August	Continuous	2									
		3									
September	Continuous	2									
		3									
October	Continuous	2									
		3									
November	Continuous	2									
		3									
December	Continuous	2									
		3									

Source: Data is obtained from the Continuous Emission Monitoring System

Table 7: Quarterly Stack Emissions Monitoring at EPL Points 2 and 3

2026	No. of samples required by EPL per year	EPL Point	Samples taken (year to date)	Result				Limit	Compliant
				Q1	Q2	Q3	Q4		
Solid Particles (mg/m ³)	4	2	1	5.8	3.2	TBC		50	Yes
		3	1	5.0	≤ 3.0	TBC			Yes

*TBC = To Be Confirmed (Sample has been collected, not yet received by EA at the time of publishing this report).

Table 8: Six Monthly Stack Emissions Monitoring at EPL Points 2 and 3

2026	No. of samples required by EPL per year	EPL Point	Samples taken (year to date)	Result		Limit	Compliant
				Jan - Jun	Jul - Dec		
Carbon Dioxide (%)	2	2	0	8.9		-	Yes
		3	0	8.4		-	Yes
Cadmium (mg/m ³)	2	2	1	0.0028	TBC	0.03	Yes
		3	1	0.00012	TBC		Yes
Mercury (mg/m ³)	2	2	1	0.00058	TBC	0.03	Yes
		3	1	≤0.00025	TBC		Yes
Type 1 and Type 2 substances in aggregate (mg/m ³)	2	2	1	≤0.024	TBC	0.60	Yes
		3	1	≤0.037	TBC		Yes
Hydrogen Chloride (mg/m ³)	2	2	0	0.49		50	Yes
		3	0	1.1			Yes
Fluorine (mg/m ³)	2	2	0	3.0		30	Yes
		3	0	6.3			Yes
Chlorine (mg/m ³)	2	2	0	0.06		4	Yes
		3	0	<0.03			Yes
Sulfuric Acid Mist and Sulfur Trioxide as SO ₃ (mg/m ³)	2	2	0	1.9		100	Yes
		3	0	2.5			Yes
Volatile Organic Compounds as n-propane equivalent (mg/m ³)	2	2	0	<0.09		8	Yes
		3	0	<0.07			Yes

*TBC = To Be Confirmed (Sample has been collected, not yet received by EA at the time of publishing this report).

Mt Piper Power Station

Ambient Monitoring Data

- **Air Quality**
- **Thompsons Creek Reservoir Water Quality**

Table 9: Ambient Air Quality at Blackmans Flat, Wallerawang & Newnes Plateau

2026	No. of samples required by licence	Parameter	Blackmans Flat			Wallerawang			Newnes		
			Min Daily Reading	Monthly Average	Max Daily Reading	Min Daily Reading	Monthly Average	Max Daily Reading	Blank	Newnes1	Newnes2
January	Continuous	SO ₂ (pphm)	0.0	0.1	0.6	-0.2	0.1	0.4	<0.9	<0.9	<0.9
		NO ₂ (pphm)	0.1	0.3	0.6	0.1	0.3	0.6	<0.6	<0.6	<0.6
		PM2.5 (µg/mg ³)	2.0	5.4	10.5	0.7	5.8	9.6	NR	NR	NR
February	Continuous	SO ₂ (pphm)	0.0	0.1	0.2	0.0	0.1	0.3	<0.9	<0.9	<0.9
		NO ₂ (pphm)	0.1	0.4	0.7	0.1	0.3	0.7	<0.6	<0.6	<0.6
		PM2.5 (µg/mg ³)	1.6	4.3	7.7	0.0	4.2	9.0	NR	NR	NR
March	Continuous	SO ₂ (pphm)	0.0	0.0	0.1	-0.1	0.1	0.3	<0.9	<0.9	<0.9
		NO ₂ (pphm)	0.1	0.3	0.6	0.1	0.3	0.5	<0.6	<0.6	<0.6
		PM2.5 (µg/mg ³)	1.8	4.0	8.6	-0.8	3.1	8.7	NR	NR	NR
April	Continuous	SO ₂ (pphm)	-0.1	0.0	0.4	-0.2	0.1	0.2	<0.9	<0.9	1.9
		NO ₂ (pphm)	0.1	0.3	0.6	0.1	0.4	0.7	<0.6	<0.6	<0.6
		PM2.5 (µg/mg ³)	2.0	5.3	17.3	0.4	5.2	14.3	NR	NR	NR
May	Continuous	SO ₂ (pphm)	0.0	0.0	0.4	-0.1	0.1	0.2	<0.9	<0.9	1.9
		NO ₂ (pphm)	0.1	0.3	0.8	0.1	0.3	0.5	<0.6	<0.6	<0.6
		PM2.5 (µg/mg ³)	2.6	3.8	7.6	0.3	3.8	18.1	NR	NR	NR
June	Continuous	SO ₂ (pphm)	0.0	0.0	0.7	0.0	0.1	0.1	<0.9	<0.9	<0.9
		NO ₂ (pphm)	0.1	0.3	1.2	0.0	0.3	0.7	<0.6	<0.6	<0.6
		PM2.5 (µg/mg ³)	2.0	4.2	7.5	-0.8	5.0	12.7	NR	NR	NR
July	Continuous	SO ₂ (pphm)									
		NO ₂ (pphm)									
		PM2.5 (µg/mg ³)									
August	Continuous	SO ₂ (pphm)									
		NO ₂ (pphm)									
		PM2.5 (µg/mg ³)									
September	Continuous	SO ₂ (pphm)									
		NO ₂ (pphm)									
		PM2.5 (µg/mg ³)									
October	Continuous	SO ₂ (pphm)									
		NO ₂ (pphm)									
		PM2.5 (µg/mg ³)									
November	Continuous	SO ₂ (pphm)									
		NO ₂ (pphm)									
		PM2.5 (µg/mg ³)									
December	Continuous	SO ₂ (pphm)									
		NO ₂ (pphm)									
		PM2.5 (µg/mg ³)									

Source: Data is obtained from the Ambient Air Monthly Report

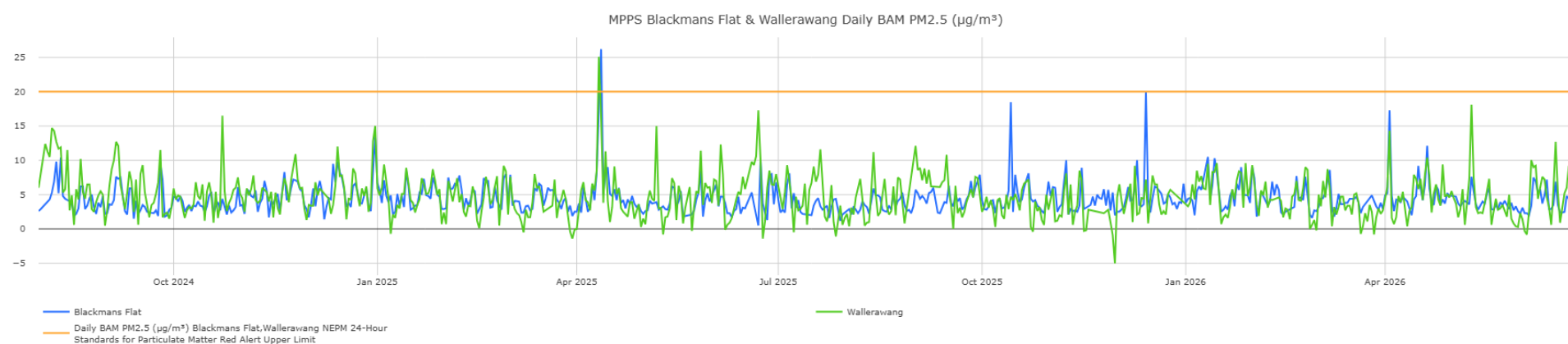


Figure 4: MPPS PM2.5 ($\mu\text{g}/\text{m}^3$) Daily Average

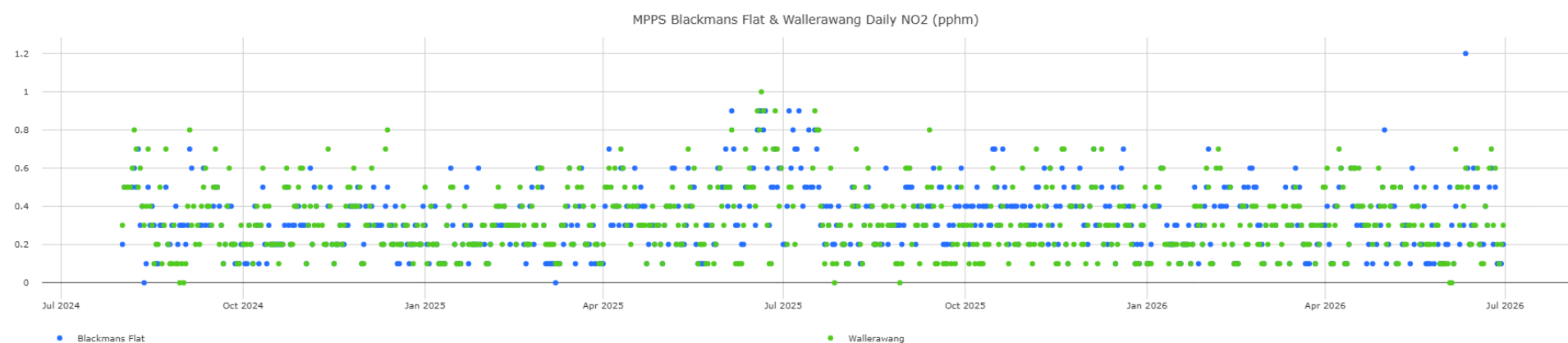


Figure 5: MPPS NO2 pphm Daily Average

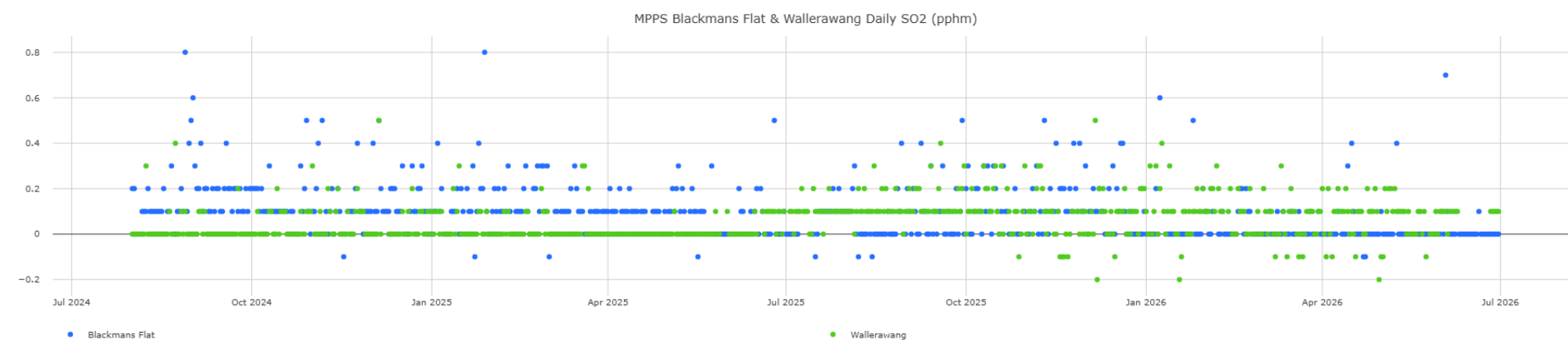


Figure 6: MPPS SO2 pphm Daily Average

Table 10: TCR Water Quality and TCR Riparian Release

2026	Electrical Conductivity (µS/cm)						TCR Riparian Release (ML/month)
	Thompsons Creek Reservoir*			TCR Riparian Release**			
	Lowest Sample Value	Mean Sample Value	Highest Sample Value	Lowest Sample Value	Mean Sample Value	Highest Sample Value	
January	472	481	496	481	487	498	190
February	467	482	500	469	484	499	529
March	478	480	485	485	488	491	584
April	475	477	485	466	471	473	381
May	464	477	484	472	483	488	325
June	393	462	512	471	476	489	317
July	406	457	533	466	474	482	329
August							
September							
October							
November							
December							

Sampling Frequency: **Thompsons Creek Reservoir: Continuous Monitoring and ** TCR Riparian Release: Weekly Sampling
**TCR Riparian Release = TCD 100 mm Riparian Release

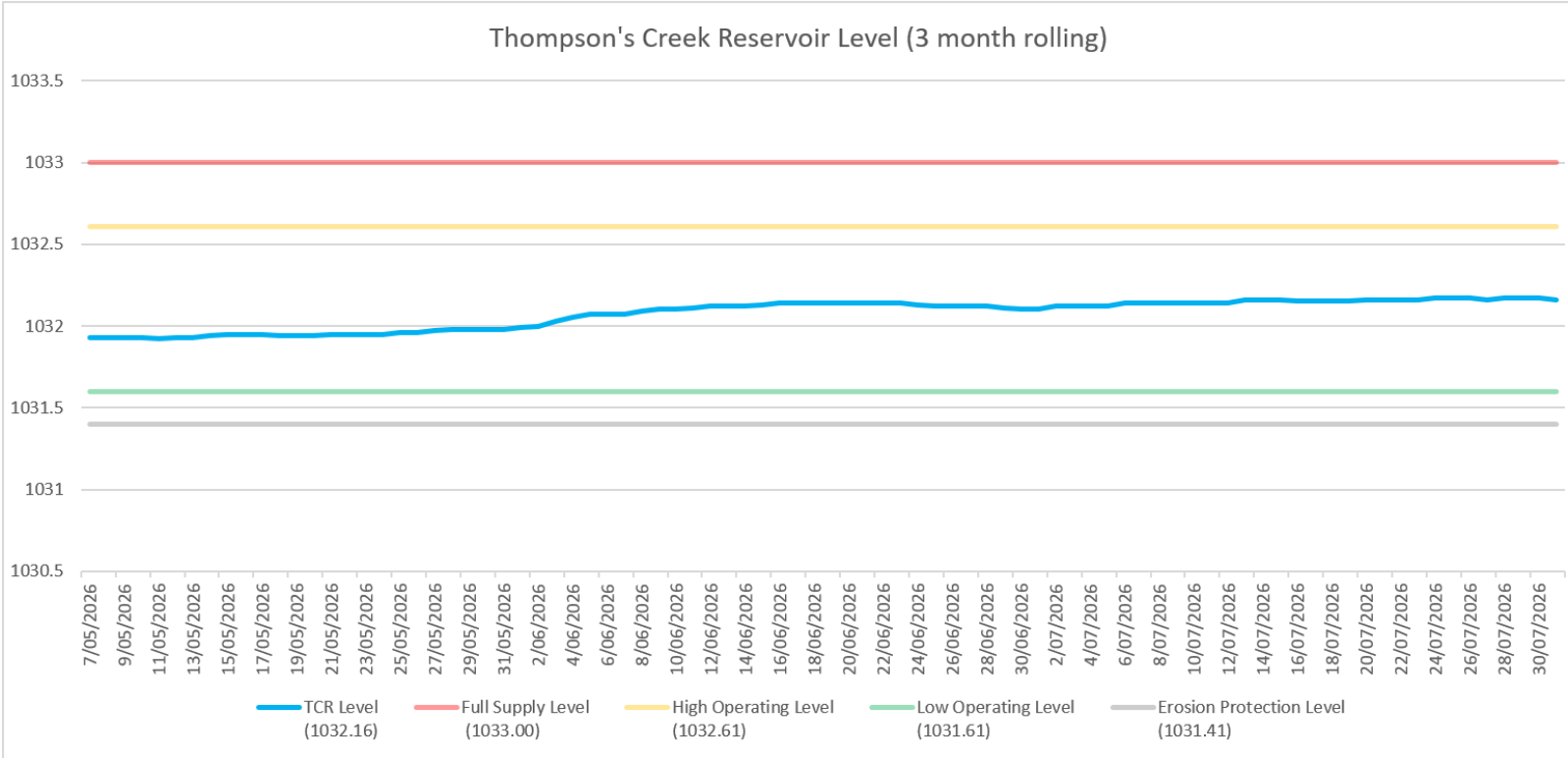


Figure 7: TCR Water Level

Mt Piper Power Station

Water Monitoring Data

- **Ground Water**
- **Surface Water**

2026 Groundwater Pollution Monitoring Data (PED)			Bore MPGM4_D10 EPA ID No.: 13				Bore_D102 EPA ID No.: 14				Bore_D103 EPA ID No.: 15				Bore_D104 EPA ID No.: 16				Bore_D105 EPA ID No.: 17				Bore_D106 EPA ID No.: 18				Bore_D107 EPA ID No.: 19			
Variable	Unit	Frequency	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
Aluminium (dissolved)	mg/L	Quarterly	0.079	0.074			0.0025	0.0025			0.0025	0.0025			0.0025	0.006			0.0025	0.0025			0.0025	0.0025			0.0025	0.0025		
Ammonia	mg/L	Quarterly	0.47	0.38			0.47	0.39			0.21	0.23			0.11	0.14			0.12	0.12			0.29	0.32			0.32	0.34		
Antimony (dissolved)	mg/L	Quarterly	0.0005	0.0005			0.0005	0.0005			0.002	0.0005			0.0005	0.0005			0.0005	0.0005			0.0005	0.0005			0.0005	0.0005		
Arsenic (dissolved)	mg/L	Quarterly	0.006	0.003			0.0005	0.0005			0.004	0.004			0.0005	0.012			0.0005	0.0005			0.0005	0.002			0.006	0.006		
Arsenic (III)	mg/L	6-monthly	0.0039				0.0005				0.0032				0.0005				0.0005				0.0005				0.0041			
Arsenic (V)	mg/L	6-monthly	0.0015				0.0005				0.0005				0.0005				0.0005				0.0005				0.0012			
Barium (dissolved)	mg/L	Quarterly	0.015	0.017			0.018	0.021			0.017	0.018			0.047	0.055			0.014	0.016			0.017	0.02			0.015	0.017		
Beryllium (dissolved)	mg/L	Quarterly	0.001	0.0005			0.0005	0.0005			0.0005	0.0005			0.0005	0.0005			0.0005	0.0005			0.0005	0.0005			0.0005	0.0005		
Bicarbonate alkalinity	mg/L	Quarterly	146	155			83	76			178	189			61	84			170	174			132	171			248	249		
Boron (dissolved)	mg/L	Quarterly	2.3	3.21			1.66	1.17			2.05	1.78			0.025	0.13			0.46	0.32			2.97	2.71			5.78	4.75		
Cadmium (dissolved)	mg/L	Quarterly	0.0008	0.0015			0.00005	0.0002			0.00005	0.00005			0.0001	0.00005			0.00005	0.00005			0.0004	0.0002			0.0008	0.001		
Calcium	mg/L	Quarterly	182	224			528	479			227	200			112	68.1			167	138			389	348			354	321		
Chloride (dissolved)	mg/L	Quarterly	354	498			904	896			272	240			100	75.3			203	163			864	734			808	687		
Chromium (dissolved)	mg/L	Quarterly	0.0005	0.0005			0.0005	0.0005			0.0005	0.0005			0.0005	0.0005			0.0005	0.0005			0.0005	0.0005			0.0005	0.0005		
Chromium (hexavalent)	mg/L	6-monthly	0.0005				0.0005				0.0005				0.0005				0.0005				0.0005				0.0005			
Chromium (trivalent)	mg/L	6-monthly	0.0005				0.0005				0.0005				0.0005				0.0005				0.0005				0.0005			
Cobalt (dissolved)	mg/L	Quarterly	0.138	0.192			0.177	0.185			0.219	0.222			0.016	0.01			0.121	0.113			0.161	0.222			0.226	0.228		
Copper (dissolved)	mg/L	Quarterly	0.0005	0.0005			0.0005	0.03			0.006	0.0005			0.002	0.0005			0.0005	0.0005			0.006	0.0005			0.021	0.0005		
Cyanide (total)	mg/L	Quarterly	0.001	0.001			0.001	0.001			0.001	0.001			0.001	0.001			0.001	0.001			0.001	0.001			0.001	0.001		
Dissolved organic carbon	mg/L	Quarterly	2	4			6	9			1	3			0.5	4			0.5	3			6	6			5	8		
Electrical conductivity	µS/cm	Quarterly	5709	7530			8751	9520	8693		4523	4878	4328		1460	1245	1032		2928	2997	2759		9150	10044	7630		10212	11040	9751	
Fluoride	mg/L	Quarterly	0.335	0.731			0.25	0.25			0.1	0.1			0.025	0.064			0.05	0.05			0.25	0.1			0.25	0.25		
Hardness (as calcium carbonate)	mg/L	Quarterly	1150	1460			3180	3000			1400	1290			589	372			1050	909			2590	2410			2470	2300		
Iron	mg/L	Quarterly	8.6	9			47.2	67.7			20.1	28.5			11.4	20.5			20	28			12.3	25.8			18.8	30.2		
Iron (dissolved)	mg/L	Quarterly	8.65	7.57			37.7	45.6			19.6	18.9			6.71	11.6			13.4	17.9			9.72	17.5			18.6	18.8		
Lead (dissolved)	mg/L	Quarterly	0.006	0.006			0.0005	0.0005			0.0005	0.0005			0.0005	0.0005			0.0005	0.0005			0.0005	0.0005			0.01	0.01		
Magnesium (dissolved)	mg/L	Quarterly	170	219			453	439			203	193			75	49			153	137			392	374			385	364		
Manganese (dissolved)	mg/L	Quarterly	4.02	5.8			12.6	12.9			11.2	11.2			3.4	2.3			8.85	8.32			8.74	10.8			9.27	9.31		
Mercury (dissolved)	mg/L	Quarterly	0.00002	0.00002			0.00002	0.00002			0.00002	0.00002			0.00002	0.00002			0.00002	0.00002			0.00002	0.00002			0.00002	0.00002		
Molybdenum (dissolved)	mg/L	Quarterly	0.004	0.006			0.0005	0.0005			0.0005	0.0005			0.0005	0.0005			0.0005	0.0005			0.0005	0.0005			0.0005	0.0005		
Nickel (dissolved)	mg/L	Quarterly	0.55	0.763			1.5	1.53			0.931	0.929			0.066	0.052			0.517	0.488			1.33	1.53			1.39	1.38		
Nitrate	mg/L	Quarterly	0.005	0.005			0.005	0.005			0.005	0.005			0.02	0.005			0.005	0.01			1.51	0.5			0.005	0.005		
Nitrate + nitrite (oxidised nitrogen)	mg/L	Quarterly	0.005	0.005			0.005	0.005			0.005	0.005			0.02	0.005			0.005	0.01			1.55	0.5			0.005	0.005		
Nitrite	mg/L	Quarterly	0.005	0.005			0.005	0.005			0.005	0.005			0.005	0.005			0.005	0.005			0.04	0.005			0.005	0.005		
pH	pH	Quarterly	5.91	5.9			6.54	6.13	6.23		6.17	6.21	6.14		5.95	6.17	6.27		6.12	6.18	6.2		6.04	6.02	6.07		6.08	6.12	6.21	
Phosphorus (dissolved reactive)	mg/L	Quarterly	0.005	0.01			0.005	0.005			0.005	0.005			0.005	0.02			0.005	0.005			0.005	0.005			0.005	0.005		
Phosphorus (total)	mg/L	Quarterly	0.02	0.01			0.005	0.005			0.005	0.03			0.005	0.06			0.05	0.01			0.005	0.005			0.01	0.005		
Potassium	mg/L	Quarterly	120	150			75.4	71.6			39.8	38.7			10.9	10.3			20.7	19.3			113	118			261	248		
Selenium (dissolved)	mg/L	Quarterly	0.0002	0.0005			0.0001	0.0003			0.0001	0.0003			0.0001	0.0002			0.0001	0.0002			0.0018	0.0022			0.0001	0.0005		
Silver (dissolved)	mg/L	Quarterly	0.00005	0.00005			0.00005	0.00005			0.00005	0.00005			0.00005	0.00005			0.00005	0.00005			0.00005	0.00005			0.00005	0.00005		
Sodium	mg/L	Quarterly	976	1190			1210	1150			597	570			102	79.5			288	259			1530	1480			1780	1670		
Standing Water Level	m	Quarterly	14.3	15.3			3.2	3.1	2.7		7.5	7.7	7.7		4.5	5.1	5.3		6.8	7.3	7		1.7	1.9	2		3.4	3.8	3.9	
Sulfate (dissolved)	mg/L	Quarterly	2510	3410			3780	3690			2010	1790			577	319			1170	955			4390	3860			4770	4210		
Total dissolved solids	mg/L	Quarterly	4890	6090			8660	7530			4050	3570			1250	668			2580	2030			8760	8090			9800	8620		
Vanadium (dissolved)	mg/L	Quarterly	0.0004	0.0003			0.0008	0.0005			0.0001	0.0001			0.0001	0.0001			0.0001	0.0001			0.0005	0.0008			0.0009	0.001		
Zinc (dissolved)	mg/L	Quarterly	0.388	0.532			0.052	0.133			0.144	0.109			0.064	0.013			0.04	0.04			0.236	0.179			0.301	0.305		

Table 11: 2026 EPL 13007 Groundwater Data

TBC (To Be Confirmed): Sample has been collected; analytical results are pending and will be reported once available.

2026 Continued Groundwater Pollution Monitoring Data (PED)			Bore_D113 EPA ID No.: 20				Bore MPGM4_D3 EPA ID No.: 21				Bore MPGM4_D1 EPA ID No.: 30				Bore MPGM4_D2 EPA ID No.: 31				Bore MPGM4_D4 EPA ID No.: 32				Bore MPGM4_D5 EPA ID No.: 33				Bore MPGM4_D8 EPA ID No.: 34			
Variable	Unit	Frequency	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
Aluminium (dissolved)	mg/L	Quarterly	0.008	0.0025			0.0025	0.0025			0.0025	0.007			1.18	0.815	0.957		7.26	7.3	7.3		0.015	0.025	0.05		0.062	0.079		
Ammonia	mg/L	Quarterly	0.23	0.31			0.05	0.09			0.64	0.47			0.16	0.1	0.07		0.33	0.19	0.21		0.3	0.1	0.11		0.01	0.005		
Antimony (dissolved)	mg/L	Quarterly	0.0005	0.0005			0.0005	0.002			0.0005	0.005			0.0005	0.0005	0.0005		0.0005	0.0005	0.0005		0.0005	0.0005	0.0005		0.0005	0.0005		
Arsenic (dissolved)	mg/L	Quarterly	0.001	0.0005			0.0005	0.0005			0.006	0.003			0.0005	0.002	0.0005		0.0005	0.0005	0.0005		0.002	0.001	0.0005		0.0005	0.0005		
Arsenic (III)	mg/L	6-monthly	0.0005				0.0005				0.0067				No	0.0005	0.0005			0.0189	0.0126			0.0005	0.0005		0.0005			
Arsenic (V)	mg/L	6-monthly	0.0005				0.0005				0.0011				No	0.0005	0.0005			0.011	0.0145			0.0014	0.0018		0.0005			
Barium (dissolved)	mg/L	Quarterly	0.01	0.014			0.106	0.031			0.019	0.021			0.019	0.033	0.021		0.015	0.015	0.016		0.019	0.017	0.018		0.033	0.032		
Beryllium (dissolved)	mg/L	Quarterly	0.0005	0.0005			0.0005	0.0005			0.0005	0.0005			0.0005	0.0005	0.0005		0.002	0.002	0.003		0.002	0.002	0.001		0.0005	0.0005		
Bicarbonate alkalinity	mg/L	Quarterly	162	170			215	157			195	190			36	35	36		0.5	0.5	0.5		69	88	104		8	9		
Boron (dissolved)	mg/L	Quarterly	2	1.7			0.025	0.025			3.23	3.28			0.36	0.52	0.49		0.025	0.025	0.11		0.07	0.025	0.09		0.025	0.025		
Cadmium (dissolved)	mg/L	Quarterly	0.0003	0.0002			0.00005	0.00005			0.00005	0.00005			0.00005	0.00005	0.00005		0.0002	0.0002	0.0002		0.00005	0.00005	0.00005		0.00005	0.00005		
Calcium	mg/L	Quarterly	171	147			75.2	73.8			396	364			45	70.1	54.4		12.3	11.1	12.1		102	92.4	92.6		25.3	24.9		
Chloride (dissolved)	mg/L	Quarterly	262	212			95.7	42.7			707	734			161	87.8	63.9		45.5	17	16.9		86.3	22.1	19.9		20.9	18		
Chromium (dissolved)	mg/L	Quarterly	0.0005	0.0005			0.0005	0.0005			0.0005	0.0005			0.0005	0.0005	0.0005		0.0005	0.0005	0.0005		0.0005	0.0005	0.0005		0.0005	0.0005		
Chromium (hexavalent)	mg/L	6-monthly	0.0005				0.0005				0.0005				0.005	0.005	0.005		0.005	0.0005	0.0005		0.005	0.0005	0.0005		0.0005			
Chromium (trivalent)	mg/L	6-monthly	0.0005				0.0005				0.0005				0.005	0.005	0.005		0.005	0.0005	0.0005		0.0005	0.0005	0.0005		0.0005			
Cobalt (dissolved)	mg/L	Quarterly	0.144	0.131			0.0005	0.001			0.248	0.254			0.027	0.044	0.018		0.003	0.003	0.003		0.019	0.019	0.017		0.0005	0.0005		
Copper (dissolved)	mg/L	Quarterly	0.0005	0.001			0.0005	0.0005			0.007	0.0005			0.005	0.003	0.004		0.002	0.001	0.001		0.0005	0.0005	0.0005		0.002	0.003		
Cyanide (total)	mg/L	Quarterly	0.001	0.003			0.001	0.001			0.001	0.001			0.001	0.001	0.001		0.001	0.001	0.001		0.001	0.001	0.001		0.001	0.001		
Dissolved organic carbon	mg/L	Quarterly	2	6			3	2			23	6			45	31	32		6	2	4		2	2	0.5		2	2		
Electrical conductivity	µS/cm	Quarterly	4656	4808	4620		1044	869			8759	8640			1030	1661	1290		610	624	624		1191	1167	1139		357	367		
Fluoride	mg/L	Quarterly	0.1	0.256			0.088	0.25			0.25	0.105			0.333	0.119	0.111		0.103	0.074	0.068		0.473	0.173	0.128		0.01	0.025		
Hardness (as calcium carbonate)	mg/L	Quarterly	1020	898			398	354			2520	2350			256	400	317		61.1	54.6	61.4		533	479	496		139	140		
Iron	mg/L	Quarterly	13.5	17.1			8.48	9.28			34.1	37.6			6.84	10.4	5.47		57.9	55.6	58.2		36.3	27	37.3		0.4	0.23		
Iron (dissolved)	mg/L	Quarterly	12.7	8.86			6	7.55			31.8	24.3			2.24	7.83	3.54		56.2	53.2	59.3		35.8	23.7	32.3		0.06	0.025		
Lead (dissolved)	mg/L	Quarterly	0.004	0.0005			0.0005	0.0005			0.0005	0.0005			0.002	0.003	0.002		0.01	0.014	0.016		0.0005	0.0005	0.0005		0.0005	0.0005		
Magnesium (dissolved)	mg/L	Quarterly	145	129			51	41.1			373	351			35	54.7	44		7.38	6.53	7.58		67.6	60.4	64.4		18.5	18.9		
Manganese (dissolved)	mg/L	Quarterly	5.32	4.94			0.455	0.689			14.6	15.9			1.61	2.69	1.55		0.598	0.608	0.628		7.41	6.8	7.29		0.034	0.041		
Mercury (dissolved)	mg/L	Quarterly	0.00002	0.00002			0.00002	0.00002			0.00002	0.00002			0.00002	0.00002	0.00002		0.00002	0.00002	0.00002		0.00002	0.00002	0.00002		0.00002	0.00002		
Molybdenum (dissolved)	mg/L	Quarterly	0.0005	0.001			0.0005	0.0005			0.0005	0.0005			0.0005	0.0005	0.0005		0.0005	0.0005	0.0005		0.0005	0.0005	0.0005		0.0005	0.0005		
Nickel (dissolved)	mg/L	Quarterly	0.566	0.519			0.006	0.006			1.54	1.57			0.092	0.154	0.098		0.012	0.012	0.011		0.042	0.042	0.038		0.044	0.039		
Nitrate	mg/L	Quarterly	0.005	0.05			0.05	0.005			0.005	0.005			0.05	0.005	0.06		0.005	0.005	0.04		0.005	0.005	0.02		0.11	0.15		
Nitrate + nitrite (oxidised nitrogen)	mg/L	Quarterly	0.005	0.05			0.05	0.005			0.005	0.005			0.05	0.005	0.06		0.005	0.005	0.04		0.01	0.005	0.02		0.11	0.15		
Nitrite	mg/L	Quarterly	0.005	0.005			0.005	0.005			0.005	0.005			0.05	0.005	0.005		0.005	0.005	0.005		0.01	0.005	0.005		0.005	0.005		
pH	pH	Quarterly	6.01	6.13	5.9		6.34	6.14			5.99	6.02			6.08	6.02	6.18		3.51	3.5	3.66		5.89	5.9	6.14		5.37	5.51		
Phosphorus (dissolved reactive)	mg/L	Quarterly	0.005	0.005			0.005	0.005			0.005	0.005			0.05	0.005	0.005		0.005	0.005	0.005		0.005	0.005	0.005		0.005	0.01		
Phosphorus (total)	mg/L	Quarterly	0.01	0.04			0.01	0.005			0.005	0.005			0.05	0.04	0.04		0.005	0.005	0.01		0.005	0.005	0.005		0.03	0.01		
Potassium	mg/L	Quarterly	92.2	84.1			9.48	9.86			126	114			11.4	16.7	13.1		8.88	9.51	9.16		10.6	11	9.71		2.86	2.69		
Selenium (dissolved)	mg/L	Quarterly	0.0001	0.0007			0.0001	0.0001			0.0001	0.0001			0.0005	0.0005	0.0005		0.0001	0.0002	0.0002		0.0001	0.0002	0.0003		0.0001	0.0001		
Silver (dissolved)	mg/L	Quarterly	0.00005	0.00005			0.00005	0.00005			0.00005	0.00005			0.00005	0.00005	0.00005		0.00005	0.00005	0.00005		0.00005	0.00005	0.00005		0.00005	0.00005		
Sodium	mg/L	Quarterly	732	670			71.2	39.8			1380	1250			118	177	149		19.5	18.5	20.5		33.6	31.9	34.8		14.1	15.4		
Standing Water Level	m	Quarterly	9.6	9.8	9.9		7.4	7.8			2.8	3.2			2.8	2.8	3.1		1.4	1.4	1.4		10.5	10.4	10.5		2.6	2.4		
Sulfate (dissolved)	mg/L	Quarterly	1920	1600			188	231			4100	4100			1130	716	427		567	245	239		1550	471	365		119	125		
Total dissolved solids	mg/L	Quarterly	3850	3290			714	572			8590	7390			745	1230	951		603	496	515		1010	891	852		298	225		
Vanadium (dissolved)	mg/L	Quarterly	0.0004	0.0004			0.0001	0.0001			0.0011	0.001			0.0022	0.0014	0.0013		0.004	0.0038	0.0041		0.0001	0.0001	0.0001		0.0001	0.0001		
Zinc (dissolved)	mg/L	Quarterly	0.254	0.301			0.011	0.0025			0.121	0.112			0.06	0.046	0.068		0.112	0.116	0.107		0.01	0.005	0.006		0.059	0.06		

Table 12: 2026 EPL 13007 Groundwater Data continued

TBC (To Be Confirmed): Sample has been collected; analytical results are pending and will be reported once available.

2026 Continued Groundwater Pollution Monitoring Data (PED)			Bore MPGM4_D9 EPA ID No.: 35				Bore MPGM4_D15 EPA ID No.: 36				Bore MPGM4_D16A EPA ID No.: 37				Bore MPGM4_D19 EPA ID No.: 38				Bore_D110 EPA ID No.: 39				Bore_D117 EPA ID No.: 40				Bore_D119 EPA ID No.: 41			
Variable	Unit	Frequency	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
Aluminium (dissolved)	mg/L	Quarterly	0.0025	0.007			0.0025	0.007			0.0025	0.0025			0.005	0.006			0.006	0.0025			0.897	0.0025			0.0025	0.013		
Ammonia	mg/L	Quarterly	0.37	0.46			0.53	0.4			0.4	0.32			0.25	0.25			0.41	0.43			0.28	0.43			0.67	0.43		
Antimony (dissolved)	mg/L	Quarterly	0.0005	0.0005			0.0005	0.0005			0.0005	0.0005			0.0005	0.0005			0.0005	0.0005			0.004	0.0005			0.0005	0.0005		
Arsenic (dissolved)	mg/L	Quarterly	0.004	0.003			0.008	0.025			0.0005	0.0005			0.001	0.001			0.004	0.002			0.001	0.002			0.008	0.005		
Arsenic (III)	mg/L	6-monthly	0.004				0.006				0.0005				0.001				0.0056				0.0005				0.0005			
Arsenic (V)	mg/L	6-monthly	0.0005				0.0016				0.0005				0.0005				0.0013				0.0011				0.0005			
Barium (dissolved)	mg/L	Quarterly	0.02	0.03			0.022	0.015			0.067	0.082			0.011	0.012			0.016	0.015			0.027	0.015			0.018	0.014		
Beryllium (dissolved)	mg/L	Quarterly	0.0005	0.0005			0.0005	0.0005			0.0005	0.0005			0.0005	0.0005			0.0005	0.0005			0.002	0.0005			0.0005	0.0005		
Bicarbonate alkalinity	mg/L	Quarterly	148	156			160	145			421	453			165	171			119	149			116	149			124	127		
Boron (dissolved)	mg/L	Quarterly	2.52	2.58			0.08	0.07			0.025	0.025			1.83	1.69			2.32	2.09			13.7	2.09			0.32	0.44		
Cadmium (dissolved)	mg/L	Quarterly	0.00005	0.00005			0.00005	0.00005			0.00005	0.00005			0.00005	0.00005			0.00005	0.00005			0.0251	0.00005			0.00005	0.00005		
Calcium	mg/L	Quarterly	515	446			80.3	80			117	105			163	141			536	479			413	479			91.7	82.4		
Chloride (dissolved)	mg/L	Quarterly	83.7	879			82.5	85			17.5	17			267	246			943	884			125	884			98.9	73.8		
Chromium (dissolved)	mg/L	Quarterly	0.0005	0.0005			0.0005	0.0005			0.0005	0.0005			0.0005	0.001			0.002	0.0005			0.0005	0.0005			0.0005	0.0005		
Chromium (hexavalent)	mg/L	6-monthly	0.0005				0.0005				0.0005				0.0005				0.0005				0.0005				0.0005			
Chromium (trivalent)	mg/L	6-monthly	0.0005				0.0005				0.0005				0.0005				0.002				0.0005				0.0005			
Cobalt (dissolved)	mg/L	Quarterly	0.198	0.197			0.136	0.149			0.003	0.0005			0.145	0.134			0.226	0.229			0.096	0.229			0.087	0.083		
Copper (dissolved)	mg/L	Quarterly	0.0005	0.0005			0.0005	0.0005			0.001	0.002			0.0005	0.0005			0.036	0.0005			0.005	0.0005			0.003	0.0005		
Cyanide (total)	mg/L	Quarterly	0.001	0.001			0.001	0.001			0.001	0.001			0.001	0.001			0.001	0.001			0.001	0.001			0.001	0.001		
Dissolved organic carbon	mg/L	Quarterly	6	6			0.5	2			0.5	1			2	3			8	6			0.5	6			6	2		
Electrical conductivity	µS/cm	Quarterly	9326	9259			2012	2065			1042	1066			4552	4183			9213	9966	8978		4671	9966			2112	2089		
Fluoride	mg/L	Quarterly	0.025	0.119			0.05	0.25			0.479	0.727			0.1	0.32			0.25	0.25			1.74	0.25			0.245	0.105		
Hardness (as calcium carbonate)	mg/L	Quarterly	3040	2710			348	348			459	411			992	867			3180	2920			1570	2920			444	457		
Iron	mg/L	Quarterly	46.9	48.1			3.75	18			0.53	1.55			15.2	18.2			55	66.3			19.5	66.3			19.2	20.1		
Iron (dissolved)	mg/L	Quarterly	41.3	32.2			3.01	10.1			0.025	0.06			12.9	15.2			39.6	11.7			0.025	11.7			15.2	14.6		
Lead (dissolved)	mg/L	Quarterly	0.0005	0.0005			0.0005	0.0005			0.0005	0.0005			0.003	0.003			0.002	0.0005			0.001	0.0005			0.002	0.0005		
Magnesium (dissolved)	mg/L	Quarterly	426	387			35.8	35.9			40.5	36.2			142	125			446	419			132	419			52.1	60.9		
Manganese (dissolved)	mg/L	Quarterly	12.3	12.5			0.741	0.77			0.156	0.111			5.27	5.25			13.6	13.1			8.16	13.1			1.64	1.74		
Mercury (dissolved)	mg/L	Quarterly	0.00002	0.00002			0.00002	0.00002			0.00002	0.00002			0.00002	0.00002			0.00002	0.00002			0.00002	0.00002			0.00002	0.00002		
Molybdenum (dissolved)	mg/L	Quarterly	0.0005	0.0005			0.001	0.0005			0.008	0.003			0.0005	0.0005			0.007	0.003			0.288	0.003			0.006	0.003		
Nickel (dissolved)	mg/L	Quarterly	1.58	1.54			0.198	0.212			0.014	0.004			0.573	0.537			1.69	1.69			0.301	1.69			0.181	0.166		
Nitrate	mg/L	Quarterly	0.005	0.005			0.05	0.06			0.25	0.02			0.005	0.005			0.04	0.03			2.74	0.03			0.35	0.04		
Nitrate + nitrite (oxidised nitrogen)	mg/L	Quarterly	0.005	0.005			0.05	0.06			0.25	0.02			0.005	0.005			0.04	0.03			2.74	0.03			0.35	0.04		
Nitrite	mg/L	Quarterly	0.005	0.005			0.005	0.005			0.005	0.005			0.005	0.005			0.005	0.005			0.005	0.005			0.005	0.005		
pH	pH	Quarterly	6.17	6.14			6.09	6.05			7.57	7.01			6.02	6.11			6.11	6.07	6		6.12	6.07			6.17	5.99		
Phosphorus (dissolved reactive)	mg/L	Quarterly	0.005	0.005			0.005	0.005			0.005	0.005			0.005	0.005			0.005	0.005			0.005	0.005			0.005	0.005		
Phosphorus (total)	mg/L	Quarterly	0.08	0.02			0.005	0.61			0.02	0.005			0.02	0.005			0.01	0.02			0.06	0.02			2.45	0.005		
Potassium	mg/L	Quarterly	97.2	95.1			27	26			23.5	21.1			83.7	70.7			96	88.1			141	88.1			32.3	36.3		
Selenium (dissolved)	mg/L	Quarterly	0.0003	0.0001			0.0004	0.0001			0.0003	0.0001			0.0001	0.0008			0.0004	0.0009			0.123	0.0009			0.0008	0.0004		
Silver (dissolved)	mg/L	Quarterly	0.00005	0.00005			0.00005	0.00005			0.00005	0.00005			0.00005	0.00005			0.00005	0.00005			0.00005	0.00005			0.00005	0.00005		
Sodium	mg/L	Quarterly	1420	1290			303	281			67.7	74.9			701	606			1380	1310			497	1310			261	260		
Standing Water Level	m	Quarterly	2.7	2.2			24.7	25.3			38.3	39.4			9.6	9.9			19.2	19.4	19.6		28.6	19.4			29.5	29.4		
Sulfate (dissolved)	mg/L	Quarterly	417	4230			749	756			162	139			1950	1740			4270	4110			2240	4110			803	667		
Total dissolved solids	mg/L	Quarterly	8980	8000			1400	1350			698	652			3560	3220			9070	7870			4580	7870			1430	1550		
Vanadium (dissolved)	mg/L	Quarterly	0.0029	0.0029			0.0001	0.0001			0.0001	0.0001			0.0003	0.0003			0.0015	0.0013			0.0014	0.0013			0.0003	0.0002		
Zinc (dissolved)	mg/L	Quarterly	0.054	0.042			0.142	0.118			0.074	0.048			0.205	0.177			0.189	0.167			0.762	0.167			0.389	0.141		

Table 13: 2026 EPL 13007 Groundwater Data continued

TBC (To Be Confirmed): Sample has been collected; analytical results are pending and will be reported once available.

[illegible]

Table 14: 2025 EPL 13007 Groundwater Data

2024	Groundwater Pollution Monitoring Data (PED)			Bore MPGM4_D10 EPA ID No.: 13				Bore D102 EPA ID No.: 14				Bore D103 EPA ID No.: 15				Bore D104 EPA ID No.: 16				Bore D105 EPA ID No.: 17				Bore D106 EPA ID No.: 18				Bore D107 EPA ID No.: 19				Bore D113 EPA ID No.: 20				Bore MPGM4_Q3 EPA ID No.: 21			
Variable	Unit	Frequency	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	
Alkalinity (as calciumcarbonate)	mg/L	Quarterly	131	144	148	157	63	58	79	117	215	205	214	207	74	47	71	71	122	146	135	166	180	175	176	182	233	238	248	254	169	167	171	179	179	179	58	89	162
Aluminium	mg/L	Quarterly	0.11	0.079	0.091	0.07	0.01	0.06	0.14	0.063	0.05	0.12	0.049	0.093	0.15	0.13	0.197	0.119	0.04	0.03	0.024	0.037	0.07	0.42	0.581	0.151	0.232	0.02	0.03	0.021	0.025	0.05	0.06	1.1	0.019	0.01	<0.01	0.008	0.013
Ammonia	mg/L	Quarterly	0.42	0.42	0.4	0.41	0.26	0.56	0.27	0.38	0.16	0.19	0.17	0.2	0.11	0.1	0.09	0.01	0.12	0.13	0.1	0.12	0.37	0.41	0.41	0.48	0.38	0.46	0.41	0.38	0.21	0.19	0.24	0.21	0.07	0.03	<0.01	0.07	
Antimony	mg/L	Quarterly	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
Arsenic	mg/L	Quarterly	0.003	0.003	0.002	0.003	0.001	<0.001	0.001	0.001	0.003	0.007	0.005	0.005	0.008	0.004	0.005	0.002	0.003	0.002	0.001	0.002	0.002	0.005	0.002	0.002	0.003	0.005	0.006	0.006	<0.001	0.001	0.002	0.002	<0.001	<0.001	<0.001	<0.001	<0.001
Barium	mg/L	Quarterly	0.017	0.016	0.017	0.016	0.024	0.026	0.026	0.022	0.016	0.018	0.017	0.018	0.099	0.099	0.094	0.069	0.017	0.015	0.016	0.017	0.019	0.024	0.019	0.019	0.019	0.016	0.018	0.011	0.012	0.019	0.011	0.081	0.056	0.071	0.053		
Beryllium	mg/L	Quarterly	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Bicarbonate alkalinity	mg/L	Quarterly	131	144	148	157	63	58	79	117	215	205	214	207	74	47	71	71	122	146	135	166	180	175	176	182	233	238	248	254	169	167	171	179	179	179	58	89	162
Boron	mg/L	Quarterly	3.12	3.63	2.95	4.45	1.14	1.29	1.25	1.2	1.54	1.8	1.66	1.71	0.06	0.07	0.12	0.06	0.71	0.55	0.49	0.49	2.3	2.96	2.4	2.35	5.05	5.05	5.39	5.48	1.48	2.08	1.99	1.95	0.08	<0.05	0.21	0.22	
Cadmium	mg/L	Quarterly	0.0004	0.0009	0.001	0.0017	<0.0001	0.0002	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	0.0001	0.0002	<0.0001	<0.0001	0.0014	0.0012	0.0012	0.0011	0.0001	0.0002	0.0003	0.0002	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Calcium	mg/L	Quarterly	264	291	283	308	523	488	561	526	175	181	175	191	82.7	84.8	65.4	67.6	181	163	150	161	481	478	464	420	403	381	372	359	159	179	198	218	79.8	28.6	25.5	75.9	
Carbonate	mg/L	Quarterly	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
Chloride	mg/L	Quarterly	602	635	675	673	1160	1140	1030	1130	219	240	216	251	75.5	81.2	84.4	83.2	250	221	192	219	1300	1150	1130	1040	1250	1090	814	930	254	307	289	352	84.4	37.2	72.1	65.5	
Chromium	mg/L	Quarterly	0.001	<0.001	<0.001	0.003	<0.001	<0.001	<0.001	<0.001	<0.001	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.007	<0.001	<0.001	<0.001	<0.001	<0.001	0.002	0.003	0.002	<0.001	0.002	0.003	0.003	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
Chromium (hexavalent)	mg/L	Quarterly	<0.01	<0.001	<0.001	<0.001	<0.01	<0.01	<0.001	<0.001	<0.001	<0.01	<0.001	<0.001	<0.01	<0.01	<0.001	<0.001	<0.01	<0.001	<0.001	<0.01	<0.01	<0.001	<0.001	<0.01	<0.01	<0.001	<0.01	<0.01	<0.01	<0.01	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
Chromium (trivalent)	mg/L	Quarterly	<0.01	<0.001	<0.001	<0.001	<0.01	<0.01	<0.001	<0.001	<0.001	<0.01	<0.001	<0.001	<0.01	<0.01	<0.001	<0.001	<0.01	<0.001	<0.001	<0.01	<0.01	<0.001	<0.001	<0.01	<0.01	<0.001	<0.01	<0.01	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
Cobalt	mg/L	Quarterly	0.231	0.25	0.253	0.276	0.212	0.178	0.208	0.2	0.183	0.178	0.192	0.205	0.016	0.011	0.016	0.014	0.167	0.119	0.13	0.136	0.346	0.294	0.302	0.277	0.353	0.226	0.268	0.257	0.128	0.134	0.161	0.171	0.001	<0.001	<0.001	<0.001	
Copper	mg/L	Quarterly	<0.001	0.001	0.007	0.002	<0.001	0.004	0.006	0.002	<0.001	0.001	0.003	0.002	0.002	0.002	0.007	0.002	<0.001	<0.001	0.001	0.002	<0.001	0.005	0.003	0.004	0.001	<0.001	0.002	0.004	<0.001	0.011	0.002	0.002	<0.001	0.001	<0.001	<0.001	<0.001
Dissolved Oxygen	µS/cm	Quarterly	1.4	1	1.7	1	2.5	4.5	2.9	2	1.1	1.7	1.4	1.8	1.3	1.3	2.4	2.5	1.3	2.2	1.3	1.5	2.3	1.7	2.2	1.1	2	1.4	3.1	1.2	1.3	3.8	1.4	1.7	3.2	5.8	1.5		
Electrical Conductivity	mg/L	Quarterly	8260	9333	9562	11405	8550	9490	9018	8965	3660	4370	3860	4103	1210	1320	992	1094	3210	3380	2862	3020	11640	13320	11469	10625	13290	13630	11733	11091	4320	5360	4940	5478	1010	461	527	1081	
Iron	mg/L	Quarterly	9.14	6.99	7.68	6.71	50	38.9	53.8	69.8	9.83	20.1	14.7	21.7	13.3	10	4.59	1.11	21	23.8	18.4	25.7	24.6	31.2	21.9	26.8	21.9	21.7	17.5	22.6	8.38	13.1	11.3	16	10.4	1.29	0.3	7.16	
Lead	mg/L	Quarterly	0.009	0.011	0.011	0.029	<0.001	<0.001	0.001	0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.002	<0.001	<0.001	<0.001	0.001	0.007	0.002	0.002	0.015	0.012	0.013	0.013	0.003	0.003	0.006	0.003	<0.001	<0.001	<0.001	<0.001	
Magnesium	mg/L	Quarterly	288	314	303	329	474	452	483	464	171	176	176	184	54.5	57.8	45.7	46.5	168	157	152	156	588	567	542	484	528	472	455	423	138	156	174	190	50.4	20	20.3	44.9	
Manganese	mg/L	Quarterly	6.66	6.96	7.18	8.68	14.7	15.2	13.7	16	9.81	10.5	9.44	12.2	2.64	2.82	2.3	2.29	12	10	8.95	11.1	18.2	17.8	15.9	16.6	13.3	11.3	10.5	12.3	5.18	6.63	6.33	8.07	0.678	0.107	0.046	0.678	
Mercury	mg/L	Quarterly	<0.00004	<0.0004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00007	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	
Molybdenum	mg/L	Quarterly	0.007	0.008	0.008	0.009	<0.001	0.001	<0.001	<0.001	<0.001	0.001	<0.001	<0.001	0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Nickel	mg/L	Quarterly	0.895	1.02	1.02	1.13	1.6	1.36	1.62	1.57	0.704	0.695	0.762	0.816	0.055	0.043	0.055	0.067	0.607	0.452	0.529	0.546	2.21	1.99	2.04	1.85	2.03	1.37	1.63	1.55	0.485	0.507	0.621	0.667	0.011	0.003	0.006	0.006	
Nitrate	mg/L	Quarterly	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.04	0.02	0.04	0.06	<0.01	<0.01	0.02	0.01	0.01	0.01	0.02	0.03	0.02	<0.01	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.02	0.03	0.04	0.01
Nitrate + nitrite(oxidised nitrogen)	mg/L	Quarterly	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.07	0.02	0.04	0.06	<0.01	<0.01	0.02	<0.01	0.01	0.01	0.02	0.03	0.02	<0.01	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.02	0.03	0.04	0.01
Nitrite	pH	Quarterly	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.03	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
pH	mg/L	Quarterly	5.91	5.78	5.87	5.84	6.12	6.08	6.11	6.05	6.2	6.19	6.1	6.07	5.99	5.74	5.91	5.85	5.96	6.07	5.96	5.93	6.03	6.05	5.9														

Table 15: 2024 EPL 13007 Groundwater Data

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Table 16: 2023 EPL 13007 Groundwater Data

2026 Surface Water Pollution Monitoring Data (PED)			SW_Wangcol C EPA ID No.: 22												SW_Wangcol E EPA ID No.: 23												SW_Wangcol F EPA ID No.: 24												
Variable	Unit	Frequency	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
Aluminium (dissolved)	mg/L	Monthly	0.024	0.117	0.012	0.007	0.008	0.06	0.06						<0.005	0.011	0.006	<0.005	0.005	0.021	0.01					<0.005	0.011	0.011	<0.005	<0.005	0.029	0.015							
Ammonia	mg/L	Monthly	<0.01	0.04	0.01	0.01	<0.01	0.05	0.03						0.03	0.02	0.04	0.03	<0.01	0.03	0.02					0.03	0.02	0.02	<0.01	<0.01	0.03	0.02							
Antimony (dissolved)	mg/L	Monthly	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001						<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001					<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001						
Arsenic (dissolved)	mg/L	Monthly	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001						<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001					<0.001	<0.001	<0.001	0.001	<0.001	<0.001	<0.001							
Arsenic (III)	mg/L	6-monthly	<0.0010						<0.0010						<0.0010						<0.0010					<0.0010							<0.0010						
Arsenic (V)	mg/L	6-monthly	<0.0010						<0.0010						<0.0010						<0.0010					<0.0010							<0.0010						
Barium (dissolved)	mg/L	Monthly	0.02	0.015	0.016	0.019	0.02	0.012	0.014						0.027	0.018	0.02	0.022	0.019	0.013	0.013					0.027	0.018	0.012	0.013	0.022	0.012	0.009							
Beryllium (dissolved)	mg/L	Monthly	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001						<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001					<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001							
Bicarbonate alkalinity	mg/L	Monthly	82	61	103	103	118	75	69						43	45	120	115	114	81	88					43	45	101	101	105	123	89	89						
Boron (dissolved)	mg/L	Monthly	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05						0.11	0.09	0.2	0.23	0.06	<0.05	0.06					0.11	0.09	0.13	0.11	0.24	0.11	0.06							
Cadmium (dissolved)	mg/L	Monthly	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001						<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001					<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001						
Calcium	mg/L	Monthly	22.3	15.2	18.6	21.6	28.7	20.5	14.6						38.1	24.2	41.2	44.4	30.7	18	19					38.1	24.2	31.6	30.9	57.4	28.3	21.2							
Chloride (dissolved)	mg/L	Monthly	8.92	5.71	11.1	10.5	16.8	8.47	10.9						17.4	26.2	60.7	65.6	30.6	15.3	23.2					17.4	26.2	40.1	38.2	92.2	37	26.6							
Chromium (dissolved)	mg/L	Monthly	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001						<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001					<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001							
Chromium (hexavalent)	mg/L	6-monthly	<0.001						<0.001						<0.001						<0.001					<0.001							<0.001						
Chromium (trivalent)	mg/L	6-monthly	<0.001						<0.001						<0.001						<0.001					<0.001							<0.001						
Cobalt (dissolved)	mg/L	Monthly	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001						0.004	0.002	0.008	0.01	0.003	<0.001	0.002					0.004	0.002	<0.001	<0.001	<0.001	<0.001	<0.001							
Copper (dissolved)	mg/L	Monthly	0.001	0.002	0.002	<0.001	<0.001	0.002	<0.001						<0.001	<0.001	<0.001	<0.001	<0.001	0.002	<0.001					<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.001	<0.001						
Cyanide (total)	mg/L	Monthly	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002						<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002					<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002							
Dissolved organic carbon	mg/L	Monthly	4	5	5	3	6	6	5						4	3	5	8	5	5	3					4	3	7	3	4	6	4							
Electrical conductivity	µS/cm	Monthly	316	192	338	376	488	282	263						657	481	1078	1191	619	391	457					657	481	722	735	1409	677	523							
Fluoride Hardness (as calcium carbonate)	mg/L	Monthly	0.299	0.191	0.186	0.271	0.17	0.194	0.101						0.079	0.202	0.149	0.222	0.159	0.193	0.116					0.079	0.202	0.156	0.225	0.131	0.183	0.114							
Iron	mg/L	Monthly	0.41	0.99	0.57	0.43	0.55	0.45	0.48						0.78	0.73	1.56	1.73	1.19	0.73	0.71					0.78	0.73	0.25	0.2	0.42	0.63	0.37							
Lead (dissolved)	mg/L	Monthly	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001						<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001					<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001							
Magnesium (dissolved)	mg/L	Monthly	10	6.19	8.46	11.2	16.4	8.12	7.81						23	15.4	33.1	35.8	19.4	10.3	14.2					23	15.4	21.4	22.3	45.1	20.4	16.5							
Manganese (dissolved)	mg/L	Monthly	0.119	0.143	0.172	0.158	0.107	0.043	0.09						0.84	0.298	1.22	1.4	0.617	0.166	0.322					0.84	0.298	0.219	0.448	0.436	0.212	0.094							
Mercury (dissolved)	mg/L	Monthly	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004						<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004					<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004							
Molybdenum (dissolved)	mg/L	Monthly	0.004	0.003	0.003	0.003	0.004	0.003	0.002						<0.001	<0.001	0.001	0.001	0.002	0.002	0.002					<0.001	<0.001	0.002	0.002	<0.001	0.002	0.001							
Nickel (dissolved)	mg/L	Monthly	0.003	0.003	0.003	0.003	0.003	0.002	0.002						0.029	0.022	0.083	0.107	0.022	0.009	0.022					0.029	0.022	0.038	0.041	0.091	0.032	0.022							
Nitrate	mg/L	Monthly	0.01	0.04	<0.01	0.01	0.01	0.05	0.04						0.01	<0.01	0.01	0.01	<0.01	0.01	<0.01					0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01							
Nitrate + nitrite (oxidised nitrogen)	mg/L	Monthly	0.01	0.04	<0.01	0.01	0.02	0.05	0.04						0.01	<0.01	0.01	0.01	<0.01	0.01	<0.01					0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01							
Nitrite	mg/L	Monthly	<0.01	<0.01	<0.01	<0.01	0.01	<0.01	<0.01						<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01					<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01							
pH	pH	Monthly	7.4	7.26	7.43	7.98	8.3	8.18	8.63						7.15	7.43	7.2	8.13	8.05	8.28	8.49					7.15	7.43	7.77	8.02	7.84	8.1	8.25							
Phosphorus (dissolved reactive)	mg/L	Monthly	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01						<0.01	0.01	<0.01	<0.01	<0.01	<0.01	<0.01					<0.01	0.01	<0.01	<0.01	<0.01	<0.01	<0.01							
Phosphorus (total)	mg/L	Monthly	0.01	0.09	<0.01	<0.01	0.06	0.07	<0.01						<0.01	0.02	<0.0																						

2026 Surface Water Pollution Monitoring Data (PED)			SW_Wangcol G EPA ID No.: 25												Coxs River Upstream WX9 EPA ID No.: 27												Wangcol Creek Weir (LMP01) EPA ID No.: 28												
Variable	Unit	Frequency	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
Aluminium (dissolved)	mg/L	Monthly	<0.005	0.033	0.007	<0.005	<0.005	0.016	0.02						0.01	0.047	0.031	0.017	0.015	0.013	0.052					0.016	0.016	0.02	0.005	0.006	0.023	0.093							
Ammonia	mg/L	Monthly	0.04	0.02	0.02	<0.01	<0.01	0.02	0.01						0.04	0.04	0.04	0.03	0.02	0.03	0.02					0.01	<0.01	0.04	0.02	0.02	0.04	0.05							
Antimony (dissolved)	mg/L	Monthly	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001						<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001					<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001						
Arsenic (dissolved)	mg/L	Monthly	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001						<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001					<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001						
Arsenic (III)	mg/L	6-monthly	<0.0010						<0.0010						<0.0010						<0.0010						<0.0010						<0.0010						
Arsenic (V)	mg/L	6-monthly	<0.0010						<0.0010						<0.0010						<0.0010						<0.0010						<0.0010						
Barium (dissolved)	mg/L	Monthly	0.021	0.01	0.01	0.013	0.021	0.011	0.009						0.027	0.02	0.02	0.021	0.021	0.024	0.017					0.016	0.016	0.016	0.021	0.024	0.017	0.013							
Beryllium (dissolved)	mg/L	Monthly	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001						<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001					<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001						
Bicarbonate alkalinity	mg/L	Monthly	59	57	100	105	123	88	81						118	192	163	169	167	138	144					76	113	113	111	145	98	55							
Boron (dissolved)	mg/L	Monthly	0.27	0.11	0.13	0.13	0.24	0.08	0.08						0.31	0.07	0.09	0.09	0.15	0.16	0.22					<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05							
Cadmium (dissolved)	mg/L	Monthly	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001						<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001					<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001						
Calcium	mg/L	Monthly	64.4	25	31.1	30.9	57.2	28.6	21.1						70.3	18	24.6	28.8	31.8	37.2	30.3					25.8	26.6	21.1	22.9	30.6	21.4	13.7							
Chloride (dissolved)	mg/L	Monthly	54.6	29.6	39.1	38.4	90.8	36.7	26.8						76.7	14	24.2	28.9	31.3	35.1	28.5					5.68	9.45	8.13	11.1	18.2	9.64	6.03							
Chromium (dissolved)	mg/L	Monthly	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001						<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001					<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001							
Chromium (hexavalent)	mg/L	6-monthly	<0.001						<0.001						<0.001						<0.001					<0.001						<0.001							
Chromium (trivalent)	mg/L	6-monthly	<0.001						<0.001						<0.001						<0.001					<0.001						<0.001							
Cobalt (dissolved)	mg/L	Monthly	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001						<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001					<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001						
Copper (dissolved)	mg/L	Monthly	<0.001	0.002	<0.001	<0.001	<0.001	0.001	<0.001						<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001					0.002	<0.001	0.002	<0.001	<0.001	0.002	0.003							
Cyanide (total)	mg/L	Monthly	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002						<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002					<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002						
Dissolved organic carbon	mg/L	Monthly	4	5	4	4	5	6	4						9	5	5	5	3	4	9					10	3	7	8	4	5	4							
Electrical conductivity	µS/cm	Monthly	1274	536	713	729	1420	673	519						1441	650	708	792	818	823	756					346	410	352	443	548	374	208							
Fluoride Hardness (as calcium carbonate)	mg/L	Monthly	0.081	0.248	0.152	0.223	0.129	0.175	0.168						0.178	0.255	0.304	0.414	0.313	0.273	0.268					0.173	0.413	0.275	0.183	0.221	0.233	0.141							
Iron	mg/L	Monthly	0.19	1.12	0.27	0.16	0.29	0.78	0.37						0.38	0.5	0.55	0.51	0.46	0.44	0.41					2.43	0.69	0.51	0.19	0.22	0.59	1.21							
Lead (dissolved)	mg/L	Monthly	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001						<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001					<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001						
Magnesium (dissolved)	mg/L	Monthly	43	17.3	22	21.7	45.5	19.9	16.6						47.8	10.4	14.9	17.9	19.7	22	20.1					10.2	11.1	9.35	13.6	19.8	10.7	6.23							
Manganese (dissolved)	mg/L	Monthly	0.326	0.205	0.207	0.41	0.419	0.205	0.088						0.265	0.051	0.099	0.06	0.079	0.108	0.086					0.063	0.066	0.076	<0.001	0.091	0.031	0.035							
Mercury (dissolved)	mg/L	Monthly	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004						<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004					<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004						
Molybdenum (dissolved)	mg/L	Monthly	<0.001	<0.001	0.002	0.002	0.001	0.001	<0.001						<0.001	0.006	0.004	0.003	0.003	0.003	0.004					0.008	0.009	0.005	0.006	0.008	0.006	0.003							
Nickel (dissolved)	mg/L	Monthly	0.064	0.023	0.038	0.041	0.09	0.033	0.022						0.059	0.008	0.015	0.021	0.025	0.027	0.021					0.004	0.003	0.004	0.004	0.003	0.003	0.003							
Nitrate	mg/L	Monthly	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01						0.01	0.02	0.21	0.06	0.03	0.08	0.02					0.14	0.08	0.16	0.09	0.1	0.08	0.1							
Nitrate + nitrite (oxidised nitrogen)	mg/L	Monthly	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01						0.01	0.02	0.22	0.06	0.03	0.08	0.02					0.15	0.09	0.16	0.09	0.1	0.08	0.1							
Nitrite	mg/L	Monthly	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01						<0.01	<0.01	0.01	<0.01	<0.01	<0.01	<0.01					0.01	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01						
pH	pH	Monthly	7.65	7.65	7.79	7.92	8.1	7.83	8.06						7.47	8	7.76	8.18	8.2	8.05	8.09					7.87	7.97	8.01	7.86	7.93	7.96	7.89							
Phosphorus (dissolved reactive)	mg/L	Monthly	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01						<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01					<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01						
Phosphorus (total)	mg/L	Monthly	<0.01	0.04	0.03	<0.01	0.03	0.																															

2026 Surface Water Pollution Monitoring Data (PED)			Wangcol Creek NC01 EPA ID No.: 29											
Variable	Unit	Frequency	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Aluminium (dissolved)	mg/L	Monthly	ND	ND	0.026	0.005	0.008	0.091	0.05					
Ammonia	mg/L	Monthly	ND	ND	0.05	0.01	<0.01	0.07	0.02					
Antimony (dissolved)	mg/L	Monthly	ND	ND	<0.001	<0.001	<0.001	<0.001	<0.001					
Arsenic (dissolved)	mg/L	Monthly	ND	ND	<0.001	<0.001	<0.001	<0.001	<0.001					
Arsenic (III)	mg/L	6-monthly			<0.0010				<0.0010					
Arsenic (V)	mg/L	6-monthly			<0.0010				<0.0010					
Barium (dissolved)	mg/L	Monthly	ND	ND	0.014	0.018	0.022	0.011	0.012					
Beryllium (dissolved)	mg/L	Monthly	ND	ND	<0.001	<0.001	<0.001	<0.001	<0.001					
Bicarbonate alkalinity	mg/L	Monthly	ND	ND	88	101	126	88	72					
Boron (dissolved)	mg/L	Monthly	ND	ND	<0.05	<0.05	<0.05	<0.05	<0.05					
Cadmium (dissolved)	mg/L	Monthly	ND	ND	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001					
Calcium	mg/L	Monthly	ND	ND	17.6	21.8	29.1	18.7	14.8					
Chloride (dissolved)	mg/L	Monthly	ND	ND	5.86	10.8	18.2	10.8	11.4					
Chromium (dissolved)	mg/L	Monthly	ND	ND	<0.001	<0.001	<0.001	<0.001	<0.001					
Chromium (hexavalent)	mg/L	6-monthly			<0.001				<0.005					
Chromium (trivalent)	mg/L	6-monthly			<0.001				<0.005					
Cobalt (dissolved)	mg/L	Monthly	ND	ND	<0.001	<0.001	<0.001	<0.001	<0.001					
Copper (dissolved)	mg/L	Monthly	ND	ND	0.001	<0.001	<0.001	0.002	<0.001					
Cyanide (total)	mg/L	Monthly	ND	ND	<0.002	<0.002	<0.002	<0.002	<0.002					
Dissolved organic carbon	mg/L	Monthly	ND	ND	6	4	10	9	7					
Electrical conductivity	µS/cm	Monthly	ND	ND	249	382	497	327	269					
Fluoride Hardness (as calcium carbonate)	mg/L	Monthly	ND	ND	0.174	0.31	0.234	0.202	0.105					
Iron	mg/L	Monthly	ND	ND	0.88	0.63	0.63	1.03	0.66					
Lead (dissolved)	mg/L	Monthly	ND	ND	<0.001	<0.001	<0.001	<0.001	<0.001					
Magnesium (dissolved)	mg/L	Monthly	ND	ND	8.17	11.2	16.4	10.2	8.04					
Manganese (dissolved)	mg/L	Monthly	ND	ND	<0.001	0.178	0.298	0.02	0.134					
Mercury (dissolved)	mg/L	Monthly	ND	ND	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004					
Molybdenum (dissolved)	mg/L	Monthly	ND	ND	0.003	0.003	0.004	0.002	0.003					
Nickel (dissolved)	mg/L	Monthly	ND	ND	0.002	0.003	0.003	0.003	0.002					
Nitrate	mg/L	Monthly	ND	ND	<0.01	0.02	0.02	0.01	0.05					
Nitrate + nitrite (oxidised nitrogen)	mg/L	Monthly	ND	ND	<0.01	0.02	0.02	0.01	0.05					
Nitrite	mg/L	Monthly	ND	ND	<0.01	<0.01	<0.01	<0.01	<0.01					
pH	pH	Monthly	ND	ND	7.22	7.81	8.11	8.17	8.3					
Phosphorus (dissolved reactive)	mg/L	Monthly	ND	ND	<0.01	<0.01	<0.01	<0.01	<0.01					
Phosphorus (total)	mg/L	Monthly	ND	ND	0.02	<0.01	0.08	0.06	0.04					
Potassium	mg/L	Monthly	ND	ND	3.93	4.77	11.1	6.76	3.99					
Selenium (dissolved)	mg/L	Monthly	ND	ND	0.0003	0.0003	0.0003	0.0003	0.0007					
Silver (dissolved)	mg/L	Monthly	ND	ND	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001					
Sodium	mg/L	Monthly	ND	ND	22	40.7	53.5	32.5	26.9					
Sulfate (dissolved)	mg/L	Monthly	ND	ND	31.1	66.2	103	51.9	42.2					
Total dissolved solids	mg/L	Monthly	ND	ND	150	226	350	212	165					
Vanadium (dissolved)	mg/L	Monthly	ND	ND	<0.0002	<0.0002	<0.0002	0.0003	<0.0002					
Zinc (dissolved)	mg/L	Monthly	ND	ND	<0.005	<0.005	<0.005	0.006	<0.005					

Table 19: 2026 EPL 13007 Surface Water Data (YTD Continued)

TBC (To Be Confirmed): Sample has been collected; analytical results are pending and will be reported once available.

ND (No data collected): NCO1 was dry at the time of the monitoring event and sampling could not be undertaken.

2025 Surface Water Pollution Monitoring Data (PED)			SW_Wangcol C EPA ID No.: 22												SW_Wangcol E EPA ID No.: 23											
Variable	Unit	Frequency	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Alkalinity (as calciumcarbonate)	mg/L	Monthly	120	81	118	98	78	78	54	71	128	37	120	121	187	136	163	123	104	76	58	64	43	134	141	162
Aluminium	mg/L	Monthly	0.082	0.041	0.093	0.027	0.108	0.035	0.124	0.183	0.197	1.55	0.128	0.441	0.015	<0.005	0.012	<0.005	0.022	<0.005	0.049	<0.005	1.1	0.026	0.013	0.025
Ammonia	mg/L	Monthly	0.03	<0.01	0.02	0.02	0.02	<0.01	<0.01	<0.01	0.02	0.01	0.05	0.01	0.06	0.05	0.07	0.04	0.05	0.03	0.02	0.01	0.02	0.03	0.09	0.08
Antimony	mg/L	Monthly	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.003	0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Arsenic	mg/L	Monthly	<0.001	<0.001	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Barium	mg/L	Monthly	0.025	0.022	0.051	0.032	0.028	0.02	0.016	0.019	0.032	0.021	0.025	0.039	0.04	0.038	0.046	0.044	0.044	0.027	0.022	0.016	0.017	0.036	0.043	0.055
Beryllium	mg/L	Monthly	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Bicarbonate alkalinity	mg/L	Monthly	120	81	118	98	78	78	54	71	128	37	120	121	187	136	163	123	104	76	58	64	43	134	141	162
Boron	mg/L	Monthly	<0.05	<0.05	0.13	<0.05	0.05	<0.05	<0.05	<0.05	0.06	<0.05	<0.05	0.07	0.97	0.52	1.01	0.36	0.89	0.34	0.12	0.08	<0.05	0.3	0.7	1.94
Cadmium	mg/L	Monthly	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Calcium	mg/L	Monthly	26.1	22	34.5	29.1	22.8	19.6	15.7	18.6	32.9	11.6	30.3	30.3	128	88.5	137	80.6	136	56.7	30.6	26.2	13.2	62.3	108	254
Chloride	mg/L	Monthly	6.36	12.4	17.3	16.1	17.7	15.2	12.5	16.1	11	6.73	10.8	7.68	273	156	231	136	292	115	49.9	43	10.3	81.8	222	591
Chromium	mg/L	Monthly	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Cobalt	mg/L	Monthly	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.034	0.02	0.044	0.014	0.045	0.016	0.005	0.003	<0.001	0.011	0.03	0.085
Copper	mg/L	Monthly	<0.001	0.001	0.004	0.004	<0.001	<0.001	<0.001	0.001	0.003	0.004	0.002	0.007	0.001	<0.001	0.004	0.007	<0.001	<0.001	<0.001	<0.001	0.004	0.005	<0.001	0.002
Dissolved Oxygen	µS/cm	Monthly	3.8	4.2	2.6	5.2	6.9	13.2	12.2	10.9	5.8	27.7	2.8	4.6	5.6	7.2	5.1	9	6.4	13.4	15.9	14.1	13.3	8.6	2.2	4.8
Electrical Conductivity	mg/L	Monthly	390	363	588	424	380	350	299	351	515	150	462	468	3784	2270	3325	1874	5334	1611	829	658	155	1562	3051	6929
Iron	mg/L	Monthly	0.35	0.35	0.73	0.54	0.35	0.27	0.26	0.29	0.32	1.15	0.31	0.45	4.51	2.2	4.88	3.14	7.32	3.15	1.23	0.61	1.09	1.15	2.46	10.7
Lead	mg/L	Monthly	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.001	<0.001	<0.001	<0.001
Magnesium	mg/L	Monthly	13.4	10.1	18	14.3	11.2	9.48	7.66	10.3	21.6	5.2	19	18.2	136	80	137	68.6	132	49	23.8	20	6.93	52.5	104	257
Manganese	mg/L	Monthly	0.6	0.328	1.08	0.504	0.3	0.19	0.121	0.111	0.23	0.05	0.268	0.528	4.38	2.79	6.3	2.9	5.6	1.76	0.717	0.412	0.083	1.13	3.14	7.75
Mercury	mg/L	Monthly	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004
Molybdenum	mg/L	Monthly	0.01	0.003	0.008	0.005	0.003	0.006	0.005	0.005	0.01	0.002	0.004	0.008	0.001	<0.001	0.005	<0.001	<0.001	0.004	0.002	0.001	<0.001	0.004	<0.001	0.001
Nickel	mg/L	Monthly	0.003	0.003	0.007	0.005	0.009	0.002	0.002	0.003	0.005	0.004	0.003	0.005	0.416	0.239	0.442	0.148	0.428	0.15	0.055	0.035	0.008	0.139	0.316	0.906
Nitrate	mg/L	Monthly	<0.01	<0.01	0.07	<0.01	<0.01	0.01	0.03	0.04	0.01	0.04	0.01	0.05	<0.01	<0.01	<0.01	<0.01	0.01	<0.01	0.01	0.02	<0.01	0.04	<0.01	0.02
Nitrate + nitrite(oxidised nitrogen)	mg/L	Monthly	<0.01	<0.01	0.08	<0.01	<0.01	0.01	0.03	0.04	0.01	0.04	0.01	0.05	<0.01	<0.01	<0.01	<0.01	0.01	<0.01	0.01	0.02	<0.01	0.04	<0.01	0.02
Nitrite	pH	Monthly	<0.01	<0.01	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
pH	mg/L	Monthly	7.47	7.2	7.19	7.28	7.19	8.17	7.48	7.64	7.72	7.64	7.51	7.67	6.94	7.1	6.54	7.13	6.36	7.96	7.14	7.43	7.6	7.46	6.92	6.63
Potassium	mg/L	Monthly	4.54	4.85	8.68	6.82	4.79	4.62	4.05	4.41	6.34	3.58	6.07	5.97	63.5	27.5	42.8	21.5	36.7	17.2	9.04	6.93	4.02	16.6	34.9	96.2
Selenium	mg/L	Monthly	0.0003	0.0004	0.0004	<0.0002	0.0003	0.0008	0.0009	0.0007	0.0004	0.0003	0.0003	0.0003	0.0002	<0.0002	0.0002	<0.0002	<0.0002	<0.0002	0.0003	0.0002	0.0002	0.0002	<0.0002	0.0002
Silver	mg/L	Monthly	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	0.0001	<0.0001	0.0008	
Sodium	mg/L	Monthly	38.5	39.4	61.8	42.5	33.4	34.4	29.8	35.6	41.7	11.3	36.7	38.6	900	291	530	231	488	180	87.3	68.1	19.7	168	396	1050
Sulfate	mg/L	Monthly	24	25	49	32	25	25	21	25	37	9	30	38	627	315	513	234	503	177	81	63	15	167	393	1200
Sulfur	mg/L	Monthly	61.8	52.6	131	109	92	87.9	71.6	81.9	101	33	99.6	115	1400	756	1220	761	1690	643	272	214	52.9	464	1290	3470
Total Dissolved Solids	mg/L	Monthly	254	229	375	265	253	222	190	212	320	138	276	296	2760	1630	2690	1330	2830	1050	521	369	160	984	2210	5760
Vanadium	mg/L	Monthly	0.0003	0.0002	0.0004	<0.0002	0.0002	<0.0002	0.0002	0.0003	0.0007	0.0022	0.0004	0.0007	0.0005	0.0002	0.0004	<0.0002	0.0004	<0.0002	0.0003	<0.0002	0.0015	0.0003	0.0004	0.0007
Zinc	mg/L	Monthly	<0.005	<0.005	0.014	0.014	0.007	0.007	<0.005	0.018	0.014	0.023	0.007	0.018	0.032	<0.005	0.028	0.023	0.031	0.011	0.025	<0.005	0.015	0.021	0.024	0.066

Table 20: 2025 EPL 13007 Surface Water Data

2025 Surface Water Pollution Monitoring Data (PED)			SW_Wangcol F EPA ID No.: 24												SW_Wangcol G EPA ID No.: 25											
Variable	Unit	Frequency	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Alkalinity (as calciumcarbonate)	mg/L	Monthly	148	102	166	129	100	78	51	58	50	121	130	150	147	120	164	123	93	79	56	62	48	120	134	151
Aluminium	mg/L	Monthly	0.032	0.016	0.019	0.008	0.007	0.012	0.054	0.042	1.24	0.047	0.016	0.043	0.027	0.017	0.017	0.008	<0.005	0.007	0.054	0.042	1.28	0.012	0.016	0.073
Ammonia	mg/L	Monthly	0.03	0.06	0.03	0.02	0.02	<0.01	<0.01	0.02	0.02	0.02	0.03	0.01	0.03	0.01	0.02	0.04	0.01	<0.01	0.01	<0.01	0.01	0.01	0.02	0.01
Antimony	mg/L	Monthly	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
Arsenic	mg/L	Monthly	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
Barium	mg/L	Monthly	0.015	0.014	0.056	0.028	0.037	0.022	0.011	0.011	0.013	0.027	0.017	0.055	0.013	0.013	0.052	0.028	0.034	0.021	0.011	0.01	0.012	0.025	0.016	0.051
Beryllium	mg/L	Monthly	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
Bicarbonate alkalinity	mg/L	Monthly	148	102	166	129	100	78	51	58	50	121	130	150	147	120	164	123	93	79	56	62	48	120	134	151
Boron	mg/L	Monthly	0.21	0.15	0.61	0.3	0.34	0.25	0.07	0.1	<0.05	0.31	0.21	0.52	0.22	0.18	0.59	0.3	0.4	0.21	0.07	0.09	<0.05	0.25	0.23	0.63
Cadmium	mg/L	Monthly	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	
Calcium	mg/L	Monthly	47.8	38.6	120	68.1	71.4	43.9	23.6	24.1	13.4	59.6	54.2	143	46.6	39.4	122	69.8	72	42.7	23.8	24	13.5	59.3	55.3	141
Chloride	mg/L	Monthly	62.3	60.2	183	125	170	88	31.7	38.2	10.9	75.2	74.1	280	66.1	45.9	188	100	156	85.5	31.3	37	10.8	74	72.5	324
Chromium	mg/L	Monthly	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.001	0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.002	<0.001	<0.001	
Cobalt	mg/L	Monthly	<0.001	<0.001	0.002	0.002	<0.001	0.001	<0.001	<0.001	<0.001	0.001	0.002	0.001	<0.001	0.001	0.001	0.001	0.003	0.001	<0.001	<0.001	<0.001	0.001	0.001	
Copper	mg/L	Monthly	<0.001	<0.001	0.004	0.007	<0.001	<0.001	<0.001	<0.001	0.004	0.005	<0.001	0.006	<0.001	<0.001	<0.001	0.003	<0.001	<0.001	<0.001	<0.001	0.003	<0.001	0.001	
Dissolved Oxygen	µS/cm	Monthly	7.6	11	7.6	10.4	9.8	15.6	13.5	12.8	10.3	7.7	2.1	8.3	7.5	9.3	7.4	9.6	10.1	14.3	14.2	15.7	11.8	8.3	4.3	7.2
Electrical Conductivity	mg/L	Monthly	1083	874	2770	1591	1826	1231	566	568	250	1384	1283	3197	1082	863	2796	1581	1813	1154	566	570	250	1389	1266	3209
Iron	mg/L	Monthly	0.28	0.21	0.36	0.36	0.27	0.16	0.27	0.28	1.14	0.22	0.11	0.74	0.25	0.23	0.22	0.35	0.11	0.12	0.27	0.28	1.16	0.11	0.11	0.36
Lead	mg/L	Monthly	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.001	<0.001	<0.001	<0.001	
Magnesium	mg/L	Monthly	37.8	28.8	107	56.5	59.8	35.9	16.9	17.7	7.62	47.3	44.7	124	37.8	29.1	109	57.4	60.3	35.2	17.1	17.6	7.81	47.2	45.2	123
Manganese	mg/L	Monthly	0.378	0.434	2.5	1.54	0.524	0.502	0.166	0.124	0.068	0.244	0.11	0.378	0.259	0.397	2.09	1.16	0.388	0.411	0.163	0.113	0.065	0.139	0.096	0.379
Mercury	mg/L	Monthly	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	
Molybdenum	mg/L	Monthly	0.004	0.001	0.003	0.002	0.004	0.001	0.001	<0.001	0.001	0.004	0.001	0.002	0.002	0.001	0.004	0.001	<0.001	0.003	0.001	<0.001	<0.001	0.007	<0.001	0.002
Nickel	mg/L	Monthly	0.066	0.048	0.237	0.104	0.137	0.078	0.027	0.027	0.01	0.094	0.071	0.255	0.066	0.05	0.232	0.104	0.152	0.073	0.026	0.026	0.01	0.102	0.072	0.256
Nitrate	mg/L	Monthly	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.05	<0.01	0.01	<0.01	<0.01	0.02	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.01	0.01	<0.01	<0.01	<0.01	
Nitrate + nitrite(oxidised nitrogen)	mg/L	Monthly	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.05	<0.01	0.01	<0.01	<0.01	0.02	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.01	0.01	<0.01	<0.01	<0.01	
Nitrite	pH	Monthly	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
pH	mg/L	Monthly	7.81	7.3	7.64	7.7	7.6	8.7	7.51	7.69	7.56	7.73	7.86	7.74	7.79	7.6	7.72	7.71	7.56	8.22	7.5	7.85	7.65	8.01	7.89	7.82
Potassium	mg/L	Monthly	11.4	10.2	27.2	18.4	17.5	12.9	6.8	6.32	4.46	14.4	13.4	27.6	52	10.1	27.2	18.4	17.7	12.5	6.99	6.29	4.41	13.9	13.6	27.5
Selenium	mg/L	Monthly	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	0.0003	0.0003	0.0002	0.0003	<0.0002	<0.0002	<0.0002	0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	0.0003	0.0003	0.0003	0.0002	<0.0002	<0.0002
Silver	mg/L	Monthly	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	0.0004	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	0.0002	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	
Sodium	mg/L	Monthly	133	97	367	194	208	129	55.8	58.3	22.7	149	138	391	807	97.9	369	199	209	123	56.4	58	23	145	141	389
Sulfate	mg/L	Monthly	106	75	352	179	206	119	51	52	19	148	134	483	313	78	357	186	211	117	52	52	22	146	136	478
Sulfur	mg/L	Monthly	296	183	894	563	823	445	172	177	57.6	411	413	1460	310	190	915	487	769	408	166	186	60.5	412	408	1660
Total Dissolved Solids	mg/L	Monthly	819	562	2050	1050	1220	748	346	343	166	893	844	2410	808	538	2080	1030	1230	732	351	336	172	814	868	2440
Vanadium	mg/L	Monthly	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	0.0002	<0.0002	<0.0002	0.0017	0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	0.0018	0.0002	<0.0002	0.0002	
Zinc	mg/L	Monthly	0.008	<0.005	0.015	0.018	<0.005	0.006	0.009	<0.005	0.023	0.025	<0.005	0.04	<0.005	<0.005	<0.005	0.015	0.006	<0.005	0.008	<0.005	0.012	<0.005	<0.005	0.007

Table 21: 2025 EPL 13007 Surface Water Data (Continued)

2024 Surface Water Pollution Monitoring Data (PED)			SW_Wangcol C EPA ID No.: 22												SW_Wangcol E EPA ID No.: 23											
Variable	Unit	Frequency	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Alkalinity (as calciumcarbonate)	mg/L	Monthly	80	90	109	83	85	87	82	65	98	72	63	81	114	127	183	105	98	74	78	77	90	139	142	123
Aluminium	mg/L	Monthly	0.2	0.62	0.28	0.05	0.17	0.179	0.134	0.296	0.028	0.703	0.362	0.16	0.04	0.04	<0.01	<0.01	0.02	0.03	0.019	0.018	<0.005	0.022	<0.005	0.028
Ammonia	mg/L	Monthly	0.02	0.01	0.01	0.01	0.02	<0.01	<0.01	0.02	0.03	0.02	0.02	<0.01	0.02	0.02	0.05	0.03	0.03	0.02	0.03	0.15	0.04	0.05	0.02	0.02
Antimony	mg/L	Monthly	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Arsenic	mg/L	Monthly	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Barium	mg/L	Monthly	0.02	0.023	0.027	0.023	0.024	0.024	0.026	0.025	0.022	0.034	0.031	0.019	0.026	0.028	0.063	0.034	0.03	0.023	0.024	0.022	0.027	0.034	0.04	0.022
Beryllium	mg/L	Monthly	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Bicarbonate alkalinity	mg/L	Monthly	80	90	109	83	85	87	82	65	98	72	63	81	114	127	183	105	98	74	78	77	90	139	142	123
Boron	mg/L	Monthly	<0.05	<0.05	<0.05	<0.05	<0.05	0.06	<0.05	0.11	0.1	<0.05	<0.05	<0.05	0.18	0.08	1.6	0.28	0.11	0.19	0.22	0.2	0.34	0.61	0.67	0.13
Cadmium	mg/L	Monthly	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Calcium	mg/L	Monthly	16.8	21.4	23.6	20.5	21.9	22.4	22.4	18	30.2	14.1	12.1	20.2	40.3	36.6	302	50	34.8	39.2	44.7	36.5	58.2	89	92.2	33.4
Chloride	mg/L	Monthly	12.4	8.27	11.7	8.62	9.94	11.4	13.2	11.8	14.3	11.3	9.34	8.6	94.6	53.7	735	105	45.8	72.5	86	60.9	119	248	226	30.8
Chromium	mg/L	Monthly	<0.001	<0.001	<0.001	<0.001	<0.001	0.006	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Cobalt	mg/L	Monthly	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.01	0.007	0.116	0.019	0.006	0.009	0.012	0.008	0.016	0.028	0.027	0.004
Copper	mg/L	Monthly	0.002	0.002	<0.001	<0.001	<0.001	0.001	0.001	0.002	0.012	0.003	0.002	0.002	0.001	<0.001	<0.001	<0.001	<0.001	0.007	0.002	<0.001	0.002	<0.001	<0.001	0.004
Dissolved Oxygen	µS/cm	Monthly	5.2	6.2	3.7	7.8	8.1	13.3	12.1	9.7	12.4	6.4	5.8	5.2	7.3	8	3.6	9.99	9.6	14.8	13.5	11	11.4	7.6	6.9	8.9
Electrical Conductivity	mg/L	Monthly	318	302	363	389	320	386	394	328	488	261	227	364	1150	870	7450	1780	820	1133	1303	1082	1825	2798	2997	717
Iron	mg/L	Monthly	0.62	0.86	0.57	0.38	0.44	0.58	0.42	0.4	0.35	0.67	0.78	0.39	2.17	1.86	12.2	3.06	1.36	1.68	1.82	1.32	2.29	3.09	2.12	1.05
Lead	mg/L	Monthly	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Magnesium	mg/L	Monthly	8.96	11.5	12.8	12.5	12.7	14.1	13.8	10.8	17.5	8.1	6.32	9.04	37.5	30.3	336	51.4	29.3	37.6	42.8	33.7	56.5	92.4	94.1	23
Manganese	mg/L	Monthly	0.246	0.206	0.56	0.168	0.187	0.222	0.138	0.099	0.181	0.279	0.284	0.206	1.95	1.93	13.8	2.64	1.34	1.16	1.32	0.935	1.66	3.05	3.7	1
Mercury	mg/L	Monthly	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004
Molydenum	mg/L	Monthly	0.005	0.004	0.006	0.003	0.003	0.01	0.009	0.007	0.009	0.004	0.003	0.006	0.002	0.002	<0.001	0.001	<0.001	0.002	<0.001	0.002	0.001	<0.001	<0.001	0.004
Nickel	mg/L	Monthly	0.003	0.005	0.002	0.003	0.002	0.003	0.003	0.002	0.006	0.003	0.003	0.004	0.091	0.067	1.08	0.17	0.056	0.098	0.109	0.076	0.163	0.284	0.32	0.043
Nitrate	mg/L	Monthly	0.03	<0.01	0.06	0.01	0.01	0.02	0.16	<0.01	0.02	0.01	0.01	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.06	0.01	<0.01	0.01	<0.01	0.03
Nitrate + nitrite(oxidised nitrogen)	mg/L	Monthly	0.03	<0.01	0.06	0.01	0.01	0.02	0.16	0.01	0.02	0.01	0.01	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.06	0.01	<0.01	0.01	<0.01	0.03
Nitrite	pH	Monthly	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
pH	mg/L	Monthly	7.46	7.66	7.09	8.07	7.65	7.75	7.14	8.4	7.7	7.03	6.95	7.57	7.26	7.49	6.31	7.15	7.4	7.6	6.91	7.94	7.41	6.66	6.78	7.57
Potassium	mg/L	Monthly	3.92	5.18	6.13	4.76	5.43	4.53	5.72	4.96	6.88	4.66	3.82	4.52	12.2	9.84	98.5	15.5	9.74	10.4	12.8	11.1	18.1	31.7	32.6	8.95
Selenium	mg/L	Monthly	0.0008	0.0003	0.0003	0.0004	<0.0002	<0.0002	0.0002	0.0003	0.0004	0.0002	<0.0002	0.0013	0.0002	0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	0.0002	<0.0002	<0.0002	0.0003
Silver	mg/L	Monthly	<0.001	<0.001	<0.001	<0.001	<0.001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	0.0001
Sodium	mg/L	Monthly	35.1	25.5	21.9	29.3	25.2	33.6	38	28.6	44.4	24.6	16.7	41.5	131	99	1070	175	85.7	116	139	111	200	356	350	82.7
Sulfate	mg/L	Monthly	19	16	32	26	21	29	36	23	39	14	8	24	111	77	1270	178	81	112	139	112	205	326	342	56
Sulfur	mg/L	Monthly	60.6	53.1	66.6	88	58.5	84.3	98.1	68	126	45.5	27.1	72.3	442	247	3760	523	223	366	461	323	675	1170	1200	168
Total Dissolved Solids	mg/L	Monthly	218	174	234	208	185	253	246	201	275	159	116	238	797	630	5980	1020	500	720	819	654	1170	2150	2100	422
Vanadium	mg/L	Monthly	<0.01	<0.01	<0.01	<0.01	<0.01	0.0003	0.0002	0.0004	0.0003	0.0009	0.0005	0.0004	<0.01	<0.01	<0.01	<0.01	<0.01	<0.0002	<0.0002	<0.0002	0.0002	0.0003	0.0002	<0.0002
Zinc	mg/L	Monthly	<0.005	0.011	0.006	0.009	0.008	0.008	0.01	0.009	0.027	0.014	0.015	0.015	0.01	0.013	0.037	0.01	0.007	0.021	0.019	0.007	0.015	0.024	0.026	0.022

Table 22: 2024 EPL 13007 Surface Water Data

2024 Surface Water Pollution Monitoring Data (PED)			SW_Wangcol F EPA ID No.: 24												SW_Wangcol G EPA ID No.: 25											
Variable	Unit	Frequency	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Alkalinity (as calciumcarbonate)	mg/L	Monthly	87	108	149	82	92	65	74	74	86	99	118	102	84	109	149	83	94	79	74	74	88	114	118	98
Aluminium	mg/L	Monthly	0.18	0.09	0.02	<0.01	0.04	0.014	0.008	0.022	0.007	0.037	0.013	0.045	0.13	0.07	0.04	0.01	0.04	0.009	0.008	0.013	0.027	0.02	0.009	0.046
Ammonia	mg/L	Monthly	0.02	<0.01	0.02	<0.01	0.01	<0.01	<0.01	0.01	<0.01	0.02	0.02	<0.01	<0.01	<0.01	0.02	<0.01	<0.01	<0.01	<0.01	0.02	0.02	<0.01	<0.01	<0.01
Antimony	mg/L	Monthly	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
Arsenic	mg/L	Monthly	<0.001	<0.001	0.003	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
Barium	mg/L	Monthly	0.008	0.011	0.021	0.015	0.015	0.025	0.02	0.015	0.033	0.03	0.015	0.008	0.007	0.012	0.021	0.016	0.015	0.024	0.022	0.014	0.032	0.03	0.017	0.007
Beryllium	mg/L	Monthly	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
Bicarbonate alkalinity	mg/L	Monthly	87	108	149	82	92	65	74	74	86	99	118	102	84	109	149	83	94	79	74	74	88	114	118	98
Boron	mg/L	Monthly	0.11	0.11	0.24	0.13	0.11	0.27	0.22	0.18	0.37	0.35	0.26	0.13	0.07	<0.05	0.22	0.14	0.1	0.24	0.2	0.19	0.34	0.38	0.25	0.12
Cadmium	mg/L	Monthly	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	
Calcium	mg/L	Monthly	19.9	31.3	57	31.8	32.8	51	46.2	37.5	80	75	48.5	29.5	20	30.6	54.5	31.2	33	50.8	45.9	37.6	77.2	74.1	45.8	29
Chloride	mg/L	Monthly	22.9	41	95.5	51.3	45.3	103	65.6	68.3	149	161	101	31.9	24.3	41.6	91.7	51.8	41.8	105	71	65.7	133	162	102	28
Chromium	mg/L	Monthly	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
Cobalt	mg/L	Monthly	0.001	0.001	0.003	0.001	0.001	0.002	0.001	<0.001	0.001	0.001	0.001	<0.001	<0.001	0.001	0.003	0.001	<0.001	0.002	0.001	<0.001	0.001	<0.001	<0.001	
Copper	mg/L	Monthly	<0.001	<0.001	<0.001	<0.001	<0.001	0.029	<0.001	0.002	<0.001	0.003	<0.001	0.006	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.016	<0.001	0.003	
Dissolved Oxygen	µS/cm	Monthly	7.2	8.6	7.3	12.46	9.4	13.2	11.4	11.3	11.1	7.3	7.6	8	7.9	7.6	7.3	8.9	9.9	13.3	12.4	10.7	12.1	9.2	8	8.4
Electrical Conductivity	mg/L	Monthly	458	700	1300	940	770	1428	1177	1043	2096	2048	1369	628	458	700	1290	930	760	1434	1179	1020	2070	2039	1368	610
Iron	mg/L	Monthly	0.6	0.5	0.52	0.19	0.38	0.17	0.26	0.29	0.13	0.18	0.22	0.3	0.54	0.48	0.5	0.21	0.37	0.14	0.26	0.24	0.14	0.12	0.19	0.27
Lead	mg/L	Monthly	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.001	<0.001	<0.001	<0.001	
Magnesium	mg/L	Monthly	14.3	23.9	49.6	28.4	26.8	50.7	43.1	33.3	73.4	68.9	41	20.1	14.6	23.6	48.5	27.8	27	50.4	42.9	33.4	71.3	67.2	38.9	20
Manganese	mg/L	Monthly	0.467	0.874	1.49	0.694	0.426	0.465	0.313	0.121	0.246	0.219	0.27	0.258	0.426	0.813	1.47	0.716	0.417	0.449	0.301	0.094	0.229	0.181	0.201	0.208
Mercury	mg/L	Monthly	<0.00004	<0.00004	<0.00004	<0.00004	0.00008	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	
Molybdenum	mg/L	Monthly	0.004	0.003	0.013	0.002	0.001	<0.001	<0.001	<0.001	0.002	<0.001	0.001	0.005	0.002	0.002	0.002	0.001	<0.001	0.001	<0.001	0.001	0.005	<0.001	0.001	0.003
Nickel	mg/L	Monthly	0.02	0.043	0.098	0.055	0.04	0.101	0.08	0.059	0.159	0.147	0.086	0.031	0.02	0.043	0.099	0.06	0.039	0.104	0.079	0.058	0.157	0.145	0.087	0.031
Nitrate	mg/L	Monthly	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.02	<0.01	<0.01	<0.01	<0.01	0.02	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.04	<0.01	0.02	<0.01	<0.01	0.01
Nitrate + nitrite(oxidised nitrogen)	mg/L	Monthly	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.02	<0.01	<0.01	<0.01	<0.01	0.02	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.04	<0.01	0.02	<0.01	<0.01	0.01
Nitrite	pH	Monthly	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
pH	mg/L	Monthly	7.69	7.87	7.39	8.18	7.57	7.76	7.29	8.16	7.97	6.86	7.51	7.37	7.62	8.21	7.52	7.78	7.71	7.76	7.36	7.64	7.89	7.52	7.59	8
Potassium	mg/L	Monthly	5.66	8.79	15.3	9.04	10	13.6	12.7	11.4	20.2	20.6	15	8.25	5.85	8.89	15.3	8.75	9.78	12.8	12.6	11	20.8	20.1	14.2	8.21
Selenium	mg/L	Monthly	0.0005	0.0002	<0.0002	0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	0.0003	0.0004	0.0003	<0.0002	0.0003	<0.0002	<0.0002	<0.0002	<0.0002	0.0018	<0.0002	<0.0002	0.0003
Silver	mg/L	Monthly	<0.001	<0.001	<0.001	<0.001	<0.001	<0.0001	<0.0001	0.0003	<0.0001	<0.0001	<0.0001	<0.0001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	
Sodium	mg/L	Monthly	48.2	77.8	126	88.3	76.7	153	133	110	246	236	139	64.2	48.6	77.4	123	86.1	76.9	150	132	107	244	229	132	62.8
Sulfate	mg/L	Monthly	33	56	143	82	73	151	127	110	251	230	125	45	34	56	138	84	72	151	128	116	244	220	120	55
Sulfur	mg/L	Monthly	104	182	417	251	207	510	327	337	796	765	473	146	107	184	396	252	199	507	344	334	733	763	481	143
Total Dissolved Solids	mg/L	Monthly	304	501	803	516	450	932	704	662	1360	1450	836	329	328	492	839	520	416	900	730	607	1390	1460	822	381
Vanadium	mg/L	Monthly	<0.01	<0.01	<0.01	<0.01	<0.01	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	0.0002	<0.01	<0.01	<0.01	<0.01	<0.01	<0.0002	<0.0002	<0.0002	0.0019	<0.0002	<0.0002	<0.0002
Zinc	mg/L	Monthly	<0.005	<0.005	0.013	<0.005	0.008	0.01	<0.005	0.01	0.006	0.02	0.007	0.046	<0.005	<0.005	<0.005	<0.005	<0.005	0.009	0.006	<0.005	0.052	<0.005	<0.005	0.032

Table 23: 2024 EPL 13007 Surface Water Data (Continued)

2023 Surface Water Pollution Monitoring Data (PED)			SW_Wangcol C EPA ID No.: 22												SW_Wangcol E EPA ID No.: 23											
Variable	Unit	Frequency	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Alkalinity (as calciumcarbonate)	mg/L	Monthly	39	36	56	43	42	58	56	57	66	85	107	86	77	92	112	87	77	63	54	62	64	119	94	141
Aluminium	mg/L	Monthly	0.25	0.3	0.21	0.44	0.06	0.07	0.14	0.24	0.21	0.32	0.32	0.49	0.02	0.03	0.02	0.02	<0.01	<0.01	<0.01	<0.01	0.01	0.02	0.02	0.05
Ammonia	mg/L	Monthly	<0.01	<0.01	<0.01	<0.01	<0.01	0.1	0.01	<0.01	<0.01	0.04	0.03	0.03	0.02	<0.01	0.01	<0.01	0.08	0.14	0.05	0.04	0.03	0.09	0.06	0.06
Antimony	mg/L	Monthly	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Arsenic	mg/L	Monthly	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Barium	mg/L	Monthly	0.026	0.025	0.029	0.024	0.018	0.025	0.025	0.029	0.024	0.025	0.031	0.027	0.026	0.026	0.036	0.032	0.03	0.037	0.041	0.042	0.035	0.047	0.052	0.046
Beryllium	mg/L	Monthly	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Bicarbonate alkalinity	mg/L	Monthly	39	36	56	43	42	58	56	57	66	85	107	86	77	92	112	87	77	63	54	62	64	119	94	141
Boron	mg/L	Monthly	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.05	0.09	0.11	0.1	0.11	0.09	0.18	0.24	0.27	0.3	0.23	1.16	0.76	0.98
Cadmium	mg/L	Monthly	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Calcium	mg/L	Monthly	9.69	8.23	15.2	11.7	10.5	20.9	19	18.3	20.1	21.8	25.7	15.7	38.7	38.9	38.6	31.2	43.6	54.3	58	64.5	50	176	131	132
Chloride	mg/L	Monthly	8.52	7.03	10.5	8.4	12.3	12.9	13.6	13.5	13.8	20.7	15.7	14.5	72.6	74.6	67.1	59.4	102	123	104	144	113	382	330	300
Chromium	mg/L	Monthly	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Cobalt	mg/L	Monthly	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.008	0.007	0.006	0.006	0.012	0.014	0.017	0.02	0.014	0.065	0.039	0.04
Copper	mg/L	Monthly	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.001	0.002	0.005	0.012	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.001	0.002	0.004	0.003
Dissolved Oxygen	µS/cm	Monthly	8	6.9	7.1	6.4	9.8	10.7	13.3	8.8	11.1	7.9	5.1	3.2	6.6	7.2	7.7	7.8	11.4	10.4	12.8	10.6	12	5.7	7.3	4
Electrical Conductivity	mg/L	Monthly	157	127	220	178	195	320	321	277	348	409	448	326	940	950	890	820	1290	1440	1600	1790	1530	4850	3650	4270
Iron	mg/L	Monthly	0.34	0.48	0.44	0.6	0.36	0.35	0.44	0.53	0.46	0.59	0.58	0.7	1.13	1.25	1.31	1.53	2.59	3.05	3.76	3.84	3.13	7.38	3.95	3.33
Lead	mg/L	Monthly	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Magnesium	mg/L	Monthly	6.8	5.14	9.91	6.67	6.32	13.4	11.5	10.6	11.6	12.1	13.9	7.85	36.3	34.7	33.8	27.5	42.5	51	55.8	64.7	49.6	201	143	152
Manganese	mg/L	Monthly	0.137	0.168	0.247	0.227	0.128	0.201	0.155	0.205	0.16	0.272	0.48	0.353	1.38	2.15	2.95	2.29	2.57	2.84	2.78	2.99	2.21	6.9	4.92	5.66
Mercury	mg/L	Monthly	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	0.00006	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004
Molydenum	mg/L	Monthly	<0.001	<0.001	0.001	0.001	<0.001	0.001	0.009	0.017	0.021	0.009	0.009	0.011	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.001	<0.001	<0.001	<0.001	0.002
Nickel	mg/L	Monthly	0.001	0.001	0.002	0.002	0.001	0.002	0.001	0.002	0.002	0.003	0.005	0.004	0.071	0.079	0.062	0.059	0.102	0.123	0.149	0.177	0.128	0.609	0.432	0.451
Nitrate	mg/L	Monthly	<0.01	<0.01	<0.01	0.01	0.04	0.05	0.03	<0.01	0.02	0.02	<0.01	<0.01	0.02	<0.01	0.04	<0.01	<0.01	0.09	<0.01	<0.01	<0.01	0.02	<0.01	<0.01
Nitrate + nitrite(oxidised nitrogen)	mg/L	Monthly	<0.01	<0.01	<0.01	0.02	0.04	0.05	0.03	<0.01	0.02	0.02	<0.01	0.02	0.02	<0.01	0.04	0.01	<0.01	0.09	<0.01	<0.01	<0.01	0.02	<0.01	<0.01
Nitrite	pH	Monthly	<0.01	<0.01	<0.01	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.02	<0.01	<0.01	<0.01	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
pH	mg/L	Monthly	7.6	7.01	7.19	7.21	7.55	7.46	7.96	7.56	8.04	7.29	7.31	7.41	7.07	7.03	7.14	7.12	7	6.96	7.47	7.24	7.65	6.54	6.78	6.72
Potassium	mg/L	Monthly	2.6	2.34	3.74	3.03	2.83	4.2	4.5	4.9	5.18	7.66	7.31	4.68	8.35	8.28	7.87	7.35	10.8	12.8	14.4	18.6	13.9	61.5	44.2	43.6
Selenium	mg/L	Monthly	<0.0002	<0.0002	<0.0002	<0.0002	0.0003	<0.0002	<0.0002	<0.0002	0.0002	0.0003	0.0002	0.0005	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Silver	mg/L	Monthly	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Sodium	mg/L	Monthly	11.4	9.55	14	10.1	15.1	20.8	25.9	20.9	27	49.2	48.4	37.4	98.6	101	93.3	78.3	138	164	180	212	158	725	513	540
Sulfate	mg/L	Monthly	9	5	13	9	11	25	24	19	25	29	31	19	96	95	81	71	131	161	184	212	163	743	500	535
Sulfur	mg/L	Monthly	27.1	14.3	37.8	28.4	37.1	77.3	73.8	63.5	87.5	87.7	95.7	47.1	308	316	256	234	462	572	455	678	537	1820	1650	1460
Total Dissolved Solids	mg/L	Monthly	101	94	134	114	102	203	188	202	188	236	306	203	596	625	554	464	778	968	1020	1250	953	3690	2930	3020
Vanadium	mg/L	Monthly	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Zinc	mg/L	Monthly	<0.005	<0.005	0.007	0.006	<0.005	<0.005	<0.005	0.006	0.012	0.055	0.017	0.01	0.006	0.008	0.008	<0.005	<0.005	0.011	0.012	0.014	0.016	0.044	0.046	0.029

Table 24: 2023 EPL 13007 Surface Water Data

2023 Surface Water Pollution Monitoring Data (PED)			SW_Wangcol F EPA ID No.: 24												SW_Wangcol G EPA ID No.: 25											
Variable	Unit	Frequency	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Alkalinity (as calciumcarbonate)	mg/L	Monthly	72	86	113	77	68	64	63	55	57	78	92	107	73	89	113	75	68	63	76	55	53	84	94	108
Aluminium	mg/L	Monthly	0.01	0.02	0.15	0.02	<0.01	<0.01	<0.01	0.01	0.01	0.01	0.02	0.05	0.01	0.03	<0.01	0.03	<0.01	<0.01	<0.01	0.01	0.02	0.02	0.02	0.05
Ammonia	mg/L	Monthly	0.01	<0.01	0.02	<0.01	0.01	0.08	0.04	<0.01	0.02	0.04	0.05	0.15	0.02	<0.01	0.01	<0.01	0.12	0.22	0.02	<0.01	<0.01	<0.01	0.04	<0.01
Antimony	mg/L	Monthly	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
Arsenic	mg/L	Monthly	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
Barium	mg/L	Monthly	0.021	0.021	0.038	0.014	0.016	0.034	0.034	0.017	0.015	0.025	0.028	0.01	0.021	0.021	0.032	0.014	0.016	0.034	0.033	0.018	0.015	0.023	0.028	0.01
Beryllium	mg/L	Monthly	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
Bicarbonate alkalinity	mg/L	Monthly	72	86	113	77	68	64	63	55	57	78	92	107	73	89	113	75	68	63	76	55	53	84	94	108
Boron	mg/L	Monthly	0.12	0.12	0.24	0.08	0.11	0.32	0.32	0.18	0.19	0.32	0.39	0.23	0.1	0.12	0.22	0.08	0.1	0.32	0.33	0.18	0.18	0.36	0.39	0.26
Cadmium	mg/L	Monthly	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	
Calcium	mg/L	Monthly	42.7	44.6	66	28.5	33.4	76.9	79.2	47.7	47.8	79	93.8	31.7	42.2	45.7	66	30	33.8	76.3	78	47.1	45.7	78.6	94	35
Chloride	mg/L	Monthly	73.6	84.4	131	57.6	69.5	153	154	91.5	95.8	139	187	44.6	76.1	88.3	136	55.7	67.1	172	150	95.7	99.2	138	185	42.3
Chromium	mg/L	Monthly	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
Cobalt	mg/L	Monthly	<0.001	<0.001	0.002	<0.001	<0.001	0.001	0.002	0.001	0.001	<0.001	0.002	0.001	<0.001	<0.001	0.001	<0.001	<0.001	0.001	0.002	0.001	0.001	0.001	0.002	0.001
Copper	mg/L	Monthly	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.003	0.002	0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.001	<0.001	0.001	<0.001	
Dissolved Oxygen	µS/cm	Monthly	6.3	6.6	7.8	7.7	10.5	10.4	12.9	10.7	9.9	8.9	7	6.7	6.7	7.7	7.8	8.1	11.8	11.3	10.9	10.1	10.4	8.2	7.4	6.6
Electrical Conductivity	mg/L	Monthly	980	1060	1590	750	880	1930	1970	1170	1300	1910	2310	840	970	1060	1610	750	880	1930	1970	1770	1290	1910	2300	850
Iron	mg/L	Monthly	0.22	0.21	0.7	0.27	0.21	0.08	0.17	0.16	0.16	0.24	0.32	0.36	0.2	0.2	0.21	0.26	0.19	0.05	0.16	0.13	0.17	0.22	0.23	0.41
Lead	mg/L	Monthly	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
Magnesium	mg/L	Monthly	38	38.6	62.7	24.4	29.4	72.3	74.6	42.6	44.1	72.4	85.2	26.8	37.6	39.4	62.2	25.7	29.7	71.4	73.4	41.7	42.4	72.1	85.9	29.7
Manganese	mg/L	Monthly	0.53	0.888	2.15	0.401	0.403	0.334	0.394	0.143	0.157	0.287	0.351	0.298	0.509	0.847	1.77	0.405	0.381	0.305	0.37	0.142	0.159	0.26	0.275	0.278
Mercury	mg/L	Monthly	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	
Molydendum	mg/L	Monthly	<0.001	<0.001	0.001	<0.001	<0.001	<0.001	<0.001	0.003	<0.001	<0.001	<0.001	0.003	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.001	<0.001	<0.001	0.002	
Nickel	mg/L	Monthly	0.061	0.072	0.119	0.044	0.05	0.136	0.152	0.073	0.074	0.133	0.175	0.047	0.059	0.072	0.117	0.042	0.05	0.134	0.153	0.073	0.073	0.133	0.177	0.047
Nitrate	mg/L	Monthly	0.02	<0.01	<0.01	0.01	<0.01	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.01	0.01	<0.01	0.01	0.03	0.04	0.03	<0.01	<0.01	<0.01	<0.01	
Nitrate + nitrite(oxidised nitrogen)	mg/L	Monthly	0.02	<0.01	<0.01	0.01	<0.01	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.01	0.01	<0.01	0.01	0.03	0.04	0.03	<0.01	<0.01	<0.01	<0.01	
Nitrite	pH	Monthly	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
pH	mg/L	Monthly	7.56	7.39	7.43	7.48	7.4	7.39	7.46	7.47	7.61	7.44	7.56	7.52	7.54	7.44	7.49	7.52	7.4	7.39	7.98	7.68	8.14	7.5	7.53	7.93
Potassium	mg/L	Monthly	8.31	9.01	14	7.21	7.63	16.7	17.6	13	12.9	20.2	22.9	8.95	8.16	9.28	13.7	7.4	7.72	16.5	17.4	12.8	12.2	19.9	22.9	9.84
Selenium	mg/L	Monthly	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	
Silver	mg/L	Monthly	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
Sodium	mg/L	Monthly	97.6	111	188	62.6	88.8	226	230	127	134	225	280	89.7	97.5	113	185	70.3	89.3	224	228	125	128	223	281	96.9
Sulfate	mg/L	Monthly	101	110	176	63	96	231	241	129	140	250	274	69	100	112	176	65	87	228	239	127	133	240	279	76
Sulfur	mg/L	Monthly	316	358	528	221	290	678	704	414	423	630	858	214	329	378	556	212	279	776	695	436	465	622	854	209
Total Dissolved Solids	mg/L	Monthly	590	692	1080	428	509	1400	1310	750	956	1160	1760	489	614	688	1100	397	486	1320	1330	758	808	1180	1730	526
Vanadium	mg/L	Monthly	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
Zinc	mg/L	Monthly	<0.005	<0.005	0.022	<0.005	<0.005	0.006	0.006	0.009	0.018	0.013	0.02	0.009	<0.005	0.009	0.005	<0.005	<0.005	<0.005	<0.005	0.007	<0.005	0.006	0.005	<0.005

Table 25: 2023 EPL 13007 Surface Water Data (Continued)