

Mayfield Concept Plan Approval

Quarterly Stormwater Monitoring Report

March to May 2021 Date of sampling: 19 and 20 March 2021 Date published: 18 May 2021

In accordance with Schedule 3 Condition 2.21 d of the Mayfield Concept Approval, PON has developed a Stormwater Management Strategy for the site.

To support the strategy PON conducts an ongoing site-wide monitoring program to confirm that the site continues to meet the commitments and requirements of the Concept Plan Approval. Sampling is undertaken on a quarterly basis at the downstream extent of the site drainage infrastructure prior to discharge into the Eastern and Western drains. There are a total of six (6) sampling locations. Please refer to Figure 1 below.

Figure 1: Mayfield Site Water Quality Monitoring Locations





Analytes that are to be monitored at each sample location are detailed in Table 1 below.

Pollutant	Unit of Measure	Frequency	Sampling Method		
Total suspended solids	mg/L	Quarterly	Grab sample during rainfall event		
рН	pH units	Quarterly	Grab sample during rainfall event		
Nitrogen (total)	ug/L	Quarterly	Grab sample during rainfall event		
Oil and grease	mg/L	Quarterly	Grab sample during rainfall event		
Phosphate	ug/L	Quarterly	Grab sample during rainfall event		
BOD	mg/L	Quarterly	Grab sample during rainfall event		
Dissolved oxygen	mg/L	Quarterly	Grab sample during rainfall event		
Heavy metals (comprehensive suite)	ug/L	Annually	Grab sample during rainfall event		

Table 1: Analytes for Stormwater

Stormwater sampling was conducted in March 2021. This round included all analytes required to be monitored quarterly.

The comprehensive suites of metals that are required to be monitored annually were conducted previously in October 2020.

Results for those analytes to be monitored quarterly are presented in Table 2 below.

Table 2: Results for quarterly suite of analytes

19 and 20 March 2021	Units	ED1	ED2	ED3	WD1	WD2	WD3
рН	pH unit	7.15	6.92	7.06	7.87	7.44	7.37
TSS	mg/L	19	15	21	5	5	5
Dissolved Oxygen	%	50.4	51.8	53.6	43.0	42.8	39.2
Total Nitrogen (calc)	μg/L	800	700	800	700	1200	1000
Oil and Grease	mg/L	<5	<5	<5	<5	<5	<5
Filterable Reactive Phosphate	µg/L	<50	<50	<50	<50	<50	<50
Biological Oxygen Demand	mg/L	<2	<2	<2	7	16	10