

## **Mayfield Concept Plan Approval**

## **Quarterly Stormwater Monitoring Report**

## June 2020 to August 2020

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 see 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:

**Table 1: Analytes for Stormwater** 

Pollutant	Unit of Measure	Frequency Sampling Method		
Total suspended solids	mg/L	Quarterly	Grab sample during rainfall event	
pН	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

The last round of stormwater sampling was conducted in July 2020. This round included all of those analytes that are required to be monitored quarterly.

The comprehensive suites of metals that are required to be monitored annually were also conducted in September 2019.

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

Table 2: Results for quarterly suite of analytes

Collection Date	14.07.20								
	Units	ED1	ED2	ED3	WD1*	WD2*	WD3*		
рН	pH unit	7.03	6.72	6.64					
TSS	mg/L	<5	<5	15					
Dissolved Oxygen	%	61	60	64					
Total Nitrogen (calc)	μg/L	400	200	400					
Oil and Grease	mg/L	<5	<5	<5					
Filterable Reactive Phosphate	μg/L	<50	<50	<50					
Biological Oxygen Demand	mg/L	2	<2	3					

<sup>\*</sup>There was no flow from the western drains during July, as such no samples could be collected.