

Objectives

- Create a longitudinal data set of water quality
- Gather data on the potential effects this drain is having on the water quality of Darebin Creek
- Reporting to the EPA major pollutants that have resulted in historical fish kills.

Monthly Parameters

- Temperature
- Dissolved Oxygen
- pH
- Electrical conductivity (Salinity)
- Turbidity
- Reactive Phosphate
- Ammonium

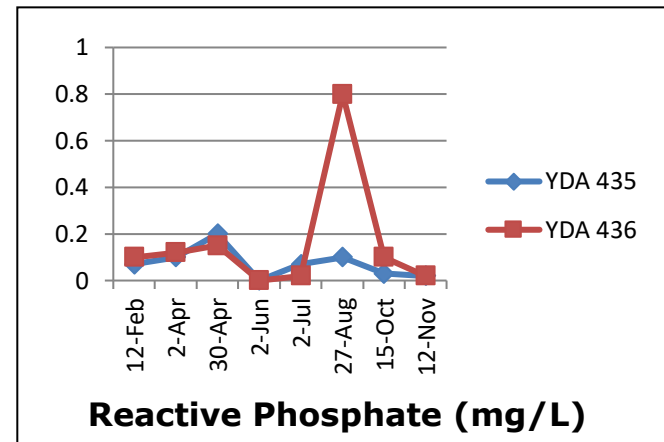
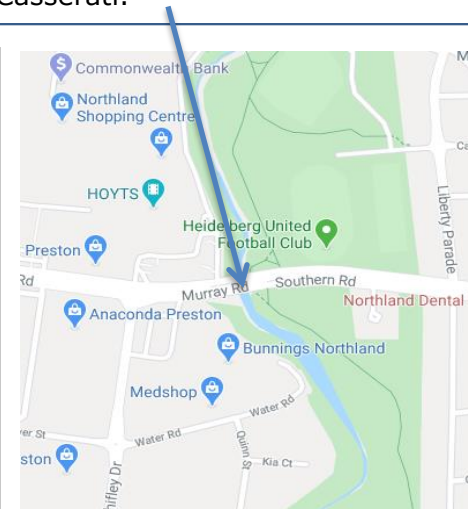
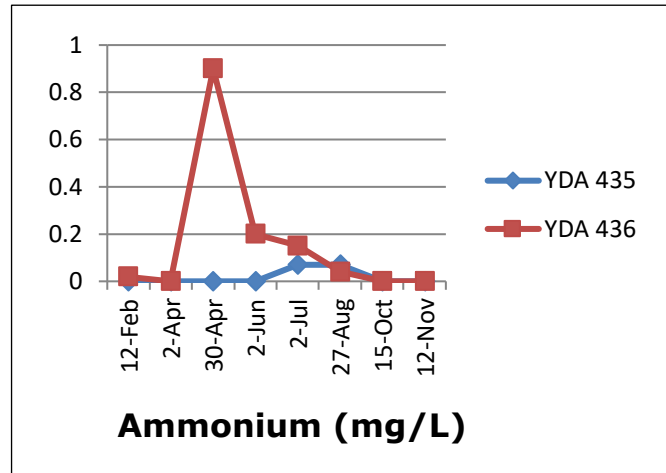
To view further water quality data for this site in other years, or at other sites, visit the [Waterwatch online database](#) putting the site code in the search engine (ME_YDA436)

Site Introduction

This site often sees polluted water coming through the stormwater system. Previous events have involved high turbidity (sediment), surfactants (detergents) and pesticides. These events have sometimes caused fish kills. Waterwatch samples slightly upstream of this stormwater drain to allow for a comparison of the two sites in an attempt to discern the effect of the drain on this section of Darebin Creek.

Site Name and Description

ME_YDA436 Darebin Creek, stormwater drain Murray Road/Southern Road bridge, Preston/Heidelberg Heights.
Monitors: Ebina Siby and Irena Casserati.



Summary

Please refer to the YDA435 2017 Water Quality Site Summary for further information about the Waterwatch site slightly upstream of the stormwater drain.

Ammonium generally stayed at negligible levels however it peaked in late April at 0.9mg/L. This spike in ammonium was not measured upstream of the drain and thus it is hypothesized that the peak in ammonium was due to water run-off fed into the creek by the drain.

Similarly, in August, reactive phosphate peaked at 0.8mg/L when measurements taken slightly upstream of the drain were 0.1mg/L. The reactive phosphate is believed to have entered the creek from the stormwater drain.

Turbidity sat at 9 NTU throughout the year apart from slight rises in February and June. These increases were not found upstream of the drain, within the Darebin Creek itself.