

Summary of Groundwater Data

Former Ford Bridgend Engine Plant

2025_10_17_Background Monitoring Data & Proposed Max Discharge Criteria – SIGMA Basement

The attached Excel spreadsheet titled 2025_10_17_Background Monitoring Data & Proposed Max Discharge Criteria_SIGMA Basement contains the following two tabs:

1. SIGMA Basement Background Data; and
2. Proposed Max Discharge Criteria

Tab 1 contains the background groundwater laboratory data collected from monitoring wells in close proximity (within approximately 40m) of the SIGMA Basement between 2020 and 2023.

Monitoring of these locations has not been conducted since that time as the concentrations of contaminants did not warrant further work based on the detailed quantitative risk assessments completed in relation to the site. However, a number of recent trial pits have been excavated around the SIGMA Basement and the associated groundwater sampling data is also attached in the following files, with no TPH or VOCs recorded above the laboratory method detection limits. Very low concentrations of one or two PAHs were recorded in the East, North and South E samples; however, these samples contained a significant quantity of sediment which we believe is the origin of the PAH. Based on this information, we do not anticipate encountering groundwater seepage that will require treatment.

- 2025_10_08_SIGMA South E
- 2025_10_08_SIGMA South W1
- 2025_10_08_SIGMA South W2
- 2025_10_08_SIGMA South W3
- 2025_10_08_SIGMA West
- 2025_10_08_SIGMA North
- 2025_10_08_Velocity Trench
- 2025_09_11_SIGMA East

Tab 2 contains a statistical assessment of any TPH, VOC or PAH concentrations detected in the groundwater in the monitoring wells, with comparison to available EQS/WQS values and proposed maximum discharge concentrations aligned with existing background conditions.