ENVIROPOD™

StormPuck™

Smart Stormwater Monitoring

Below-ground insights that inform inspection and guide maintenance.



20+ MUNICIPALITIES ONBOARDED

≤30% UP TO 30% FEWER MAINTENANCE VISITS

1000+ ASSETS MONITORED DAILY

ONE SENSOR MAINTENANCE AND REPORT INSIGHTS.

StormPuck™ can be installed in catch basins and hydrodynamic separators. Cellular or LoRa connectivity, with data sent hourly or on events.

Provides a live map of your assets, real-time data and alerts, and maintenance insights and reporting through the Meridian platform.



WHAT STORMPUCK™ MEASURES.

Internal level monitoring:

Continuous level data reveals drainage performance, tidal influence, flooding risk and long-term trends.

Surge level:

Detects rapid rises in water level, flagging flood and overflow risk in real time.

External blockage:

From level measurements we can derive and detect blockages at the grate or inlet entry to prevent surface flooding.

Internal blockage:

Detects blockages at the outlet pipe.

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BEYOND MAINTENANCE

What started as a maintenance optimization project has expanded across 20+ municipalities. As the network has grown, so has what the data reveals.

Flood monitoring through tidal inundation tracking, rainfall correlation, creek surges and bridge sensors providing early warning. Proof of service, where level data before and after a clean confirms whether a contractor actually attended. Root cause analysis separating maintenance problems from design failures. And performance monitoring on hydrodynamic separators — which assets are bypassing, which are working well, and which need servicing.

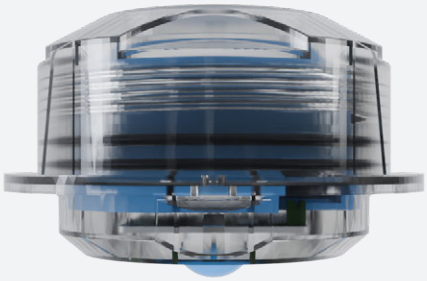


HYDRODYNAMIC SEPARATORS: A COSTLY BLIND SPOT

Working with municipalities, one issue kept surfacing: separator and treatment structure performance.

Low visibility into when and how these assets are actually performing. High cost, with contractor-driven servicing and limited municipal control. High risk, with overflows and bypass events impacting local waterways. Municipalities are often spending more, with less certainty, and higher environmental risk.

Applicable across litter baskets, baffle boxes, trash nets, vortex separators and filter or media-based systems.



CASE STUDY: CITY OF MONASH, MELBOURNE

One of Australia's largest stormwater IoT deployments.

300 sensors across a network of **50,500 catch basins** and **741 miles (1,192 km)** of underground piping.

Sites were not selected at random. Installation was prioritized by incident reports and community complaints, high cleaning or inspection frequency, and history of flooding or blockages.

What the data showed. 40% of high-risk structures were being inspected zero to one times per year. Meanwhile other assets were on a four-inspection-a-year schedule and needed no cleaning at all, while unscheduled assets needed cleaning twice. Scheduled maintenance and actual condition were badly mismatched in both directions.

What changed. Field teams now dispatch by condition rather than calendar, capture photos and notes via mobile, and use live condition data to separate maintenance gaps from design failures.



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Request pricing, technical drawings or help selecting the right product.

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