

Our Mission:

- We will provide a **vital service** to **infrastructure installations** throughout Victoria.
- This service will be through **the supply and maintenance management** of **critical process control equipment** at these installations.
- Our customers will **describe** us as a **lean, efficient** and **responsive team of people**.

Job Description:

- Storm water and automatic spill isolation control system for a major hazard facility.

The Issue

- ❖ Original storm water isolation system could not guarantee a “leak tight seal”
- ❖ Very slow-to-close in the event of a major spill.
- ❖ No high level alarm in case system fails to open.
- ❖ High cost of ownership due to
 - non-standard spares
 - poor maintainability of original design
 - potential environmental fines



Figure 1.0 Close up and overview of old “penstock” style system

Key Performance Indicators.

The new system must meet the following KPI's

- ❖ To **prevent** potentially harmful chemicals from entering the local environment via the storm water discharge system of a major chemical processing plant.
- ❖ To enable **rapid isolation** of the primary storm water collection and discharge point via **remote controlled** spill alarm systems.
- ❖ To provide local **manual override** capability in case of power failure.
- ❖ To allow **sampling** of the storm water prior to discharge without having to enter a confined space **restricted area**.
- ❖ To allow **safe removal** and discharge of “contaminated” storm water.
- ❖ To minimize the long term **cost of ownership** by providing a leak tight reliable isolation system that is quick and easy to maintain.

The Solution.

Tyco Flow Maintenance was contracted to;

- ❖ Remove the old valve system,
- ❖ Design a new system
- ❖ Supply / fabricate, install and commission the new system
- ❖ And maintain the new system.

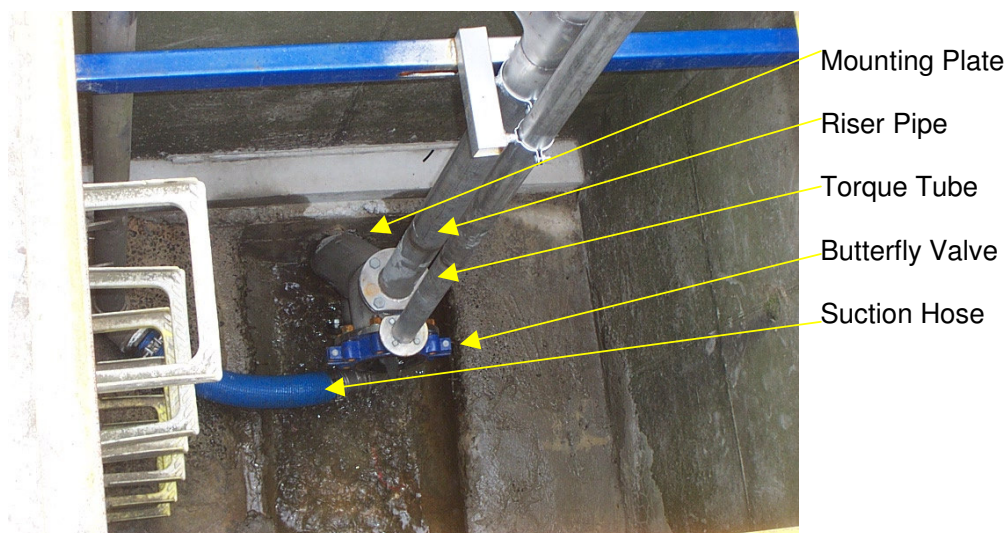


Figure 2.0 Valve mounting plate, standpipe and torque tube assembly

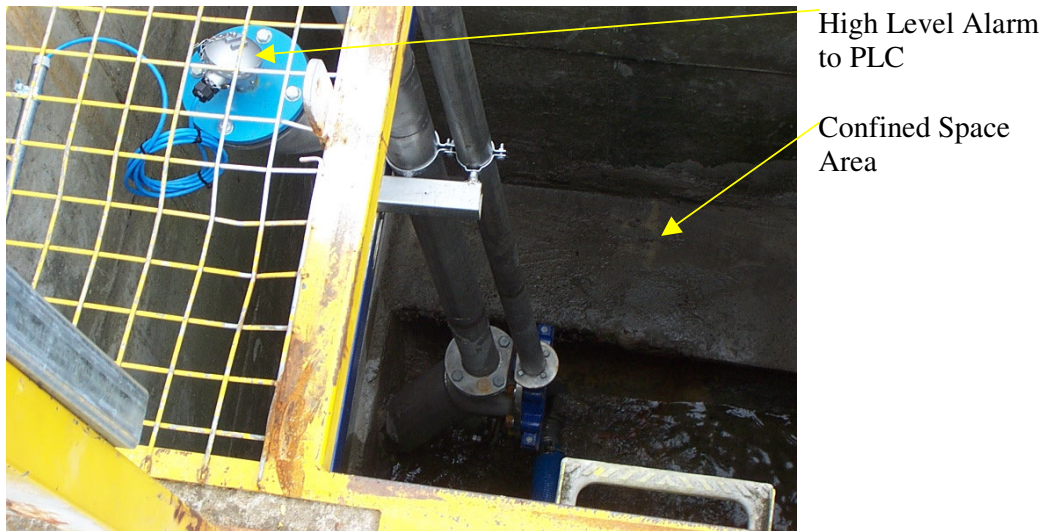


Figure 3.0 High-level water alarm with DCS feedback to PLC System.



Figure 4.0 – Automatic control system with local manual override