A&J have combined a retractable scum concentrator arm with their peripheral dipping scum removal device for applications where high volumes of mousse-like scum accumulates and resists withdrawal from the tank by conventional means.

A typical application would be on activated sludge plants and where seasonal changes can provide high scum volumes.

A suitably sized adjustable dipping scumbox is effective in removing localised scum as both head and dwell time are adjustable. For the ScumAway system, the scumbox is complemented by a retractable arm which extends across the tank radius so as to retain and concentrate the scum in the area of the scumbox.

The scraper bridge carries the scumbox actuator and the mechanism which pushes the scum arm back against the tank wall enabling the rotating bridge to pass after actuating the scumbox.

After the bridge passes, the scum arm slowly returns to its operating position ready for the next cycle.
Other Scum Removal Systems

A&J Water Treatment has provided hundreds of scum removal devices and systems into settlement tank applications, both on new tanks and retrofit to existing scraper systems. We are experienced in all common scum removal systems, and can advise as to the most appropriate solution for any given application.

Pumped Scum Removal

This simple scum solution consists of a bridge-mounted scumblade, a pump and scum box with adjustable weir system and low level float switch. Scum is guided towards the bridge-mounted scum box and passes over an adjustable weir into the scum box. The level is drawn down by the pumping system and the scum is removed from the box. A pipe runs along the bridge and terminates above the surface water level inside the diffuser drum, where it discharges the scum. The action of the pump system and the turbulence at the surface of the diffuser drum allows the scum to break up and sink, enabling it to be taken out with the settled sludge.

Rotary Scumboxes

The rotary scumbox is a historically popular design due to its compact dimensions. Because of this it can easily be retrofitted to an existing settlement tank.

Siphonic Scum Removal

Generally fitted to suction-lift scrapers, an adjustable weir controls the flow of scum and surface water into the scum box, from where it is recovered by the same siphonic action as is in action at the tank floor removing settled sludge. Using the function of the siphon allows scum to be removed from the tank without the installation of out-of-tank infrastructure such as reception chambers, pumps, pipes and associated electrical services as would be required for a separately pumped system, thus reducing both CAPEX and OPEX costs.

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