

Water Clarification

PR Silt Separator Water Clarification System



Sales and Rental Solutions

The PR Water Clarification system is a major improvement over the construction industry's standard approach of using holes in the ground, straw filled skips or ineffective settlement tanks.

The PR Water Clarification system removes fine particles from water including silt, raw cement fines and other solids allowing treated water to

be discharged off site in an **environmentally friendly process**.

Project Rentals have a comprehensive range of Water Clarification, Water Filtration and Water Treatment systems available for sale or rental, depending on the application.

Key Benefits

Designed to meet the rigours of the construction industry Australia wide

- **Fast and simple** setup
- **Small footprint** but large settlement area
- **Out perform** conventional settlement tanks and lagoon up to 20 times their plan area
- Units can be **linked together** to handle a range of flows, pump sizes and particle characteristics
- **No power** requirements
- No moving parts making the unit virtually **maintenance free**
- **Reduce the risk of silt pollution** for discharge to watercourses
- **Reduce the risk of blocking sewers**
- **Reduce off-site trade effluent** disposal costs
- **Reduce the risk of breaking discharge consents**

Applications

Industry	Application
Construction	▪ Pumping and dewatering
	▪ Groundwater treatment
	▪ Site run-off treatment
	▪ Site water management
	▪ Drilling, pilling & coffer dams
	▪ In-river and near-river works
	▪ Desilting and dredging
	▪ Plant, vehicle & wheel washing
	▪ Sewage and water treatment works
	▪ Hydro-demolition & diamond drilling
Environmental	▪ Carbon and sand filter pre-treatment
	▪ Light oil separation
Industrial Plants	▪ Mobile pilot units
	▪ Temporary water treatment plants

Water Clarification System



Particle Size Chart

	Colloids	Clay	Silt			Sand			
			Fine	Medium	Coarse	Fine	Medium	Coarse	
Particle size (microns)	0.001	0.1	2	6	20	60	200	600	2000
Settling velocity (m/hr)	Non Settling		0.013	0.1	1.3	11	96	400	1050
Settlement area required per m ³ /hr of flow (m ²)	Infinite	Infinite	80	9	0.8	0.1	0.01	0.003	0.001
Conventional Settlement Tank	[Bar chart showing high settlement area for fine particles]								
PR Silt Separator	[Bar chart showing significantly lower settlement area]								
PR Silt Separator + Flocculant	[Bar chart showing further reduced settlement area]								
PR Silt Separator + Chemical Pre-Treatment	[Bar chart showing the lowest settlement area]								



Contact Project Rentals today for your water solution requirements

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