

PHOSPHORUS AND NITROGEN CAPTURE AND REMOVAL

by Livestock Water Recycling

**FIRST
WAVE**

BY LWR

SAVE TIME, SAVE MONEY!

Gain more control over your manure nutrients

100% nutrient accessibility

Economically export phosphorus to distant fields

Small capital cost makes it economic for any size of farm!


From the Innovation Center that developed the #1 selling manure treatment system on the market, comes the *First Wave System* - offering you the same powerful segregation ability in a simple, easy to install, fully automated system.

The result is a nutrient liquid rich in ammonia and potassium, and a valuable solid fertilizer material containing organic nitrogen and phosphorus that can be economically exported to far away fields.

The First Wave system eliminates solids in your lagoon and odors on your farm!

THE RESULTS:

FERTILIZER SOLIDS

- Rich in phosphorus, nitrogen & potassium
- Can be spread with conventional equipment or blended with fibre
- Beneficial where soils have been stripped of organics
- Remove up to 95% of phosphorus and organic nitrogen
- Use nutrient additive  polymers

NUTRIENT LIQUIDS

- Clear, odorless, low solids nutrient liquid
- Low nitrogen levels
- Ammonia can be stabilized to add nutrient value
- Liquids are clean enough to be applied to growing crops through various irrigation methods
- Liquids can be used in the flush to reduce lagoon settling requirements



“ This system saves us on fuel because we can apply more liquids on closer fields while exporting only the solids to fields that traditionally have less manure and are in need of phosphorus.

We don't have to purchase nitrogen because we are able to apply more, and we have significantly increased yields on both corn and hay! ”

~
Jay Binversie,
Robinway Dairy



www.livestockwaterrecycling.com



PROGRESSIVE, INNOVATIVE, SUSTAINABLE

THE BENEFITS:

- Improve your operating profit margins
- Expand your herd without acquiring more land
- Strategically control nutrient application



**PRECISE NUTRIENT
APPLICATION**



**SAVE MONEY
ON TRUCKING**



**ELIMINATE
ODOR**

- Haul liquid free solids to far away fields
- Eliminate solids from your lagoon
- Control lagoon capacity
- Eliminate the need for agitation
- Save money on trucking
- Stop losing nutrient value
- Eliminate odor and improve neighbor relations
- Use nutrient liquid in cleaning, sand washing, and flumes

Once installed, you can easily upgrade to the full LWR Manure Treatment System at any time by adding the Second Wave module to start making clean water!



| | First Wave 10 | First Wave 40 | First Wave 85 |
|----------------------------------|----------------------|----------------------|-----------------------|
| Daily Manure Treatment Capacity | Up to 15,000 Gallons | Up to 82,000 Gallons | Up to 143,000 Gallons |
| Annual Manure Treatment Capacity | 5,000,000 Gallons | 30,000,000 Gallons | 50, 000,000 Gallons |
| Nutrient Liquids Produced (N/K) | 4,500,000 Gallons | 27,000,000 Gallons | 45,000,000 Gallons |
| Nutrient Solids produced (N/P/K) | 2,000 tons | 12,000 tons | 20,000 tons |

Simple, low cost, automatic operation. The screen is constructed of stainless steel and mounted on an epoxy coated skid. It arrives pre-plumbed and wired for seamless connection.

Building Dimensions: 50ft x 44ft x 22ft high building.

Other Requirements: 14ft overhead door, 480V, 3 Phase, 125A Electrical Service. Fan Separator screw press sold separately.



Don't waste
perfectly
good waste.

1.403.203.4972