YOUR FARM





Get maximum value from your effluent

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AUTUMN/WINTER | APR - JUL 25

Is a bladder tank right for you? Find out more page 12

Saving 20K a year on fert.

see pages 6-7

Specialist provider of **DAIRY EFFLUENT EQUIPMENT** 1800 963 490 | nevadagroup.com.au



FEED YOUR FARM

Welcome to the Autumn edition

A change of season is always a good time to assess what works and what you can improve on the farm. Effluent is a valuable, nutrient-rich commodity that you're producing every day, but often it's underutilised.

In this issue we look at:

- How to make the most of your effluent
- In-cab chat with Peter Denham
- Talk to a farmer saving \$20k a year on fert
- The benefits of bladder tanks

Every dairy farmer has a great resource on their farm just waiting to be harnessed. If you have specific questions about your farm and what would work best for your paddocks, then our team members are the best people to ask. Give them a call, and they'll be happy to help. They know the machinery inside out.



Specialist provider of DAIRY EFFLUENT EQUIPMENT





In Kaponga, Taranaki, Peter Denham goes out to do his daily chores of spreading effluent with a Nevada Slurry Tanker. At around 1300ft in elevation, it was time consuming to manage a travelling irrigator, but now Peter can listen to the radio while spreading effluent to every nook and cranny of the farm. "I think it's a good value for money, comes smell free, loading is approximately four minutes and approximately about the same time to unload," he said.

Peter recommends a good effluent stirrer for the right consistency of effluent for spreading. "I've got good grass this season. I don't know whether it's because of the different season we've had, but I've been blaming the effluent system that we have better feed," he remarked.

With ease of accessibility around the farm and the chance to catch up on the latest radio show, Peter finds his daily routine to be much more enjoyable on a nice day out with Nevada's latest in effluent management equipment.

WATCH IN THE CAB



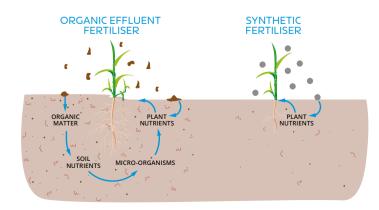
You have a valuable resource that your cows are producing every day. What strategies should you employ to get the most value out of Farm Dairy Effluent (FDE)? That's what we're going to look at in this article and suggest several efficient approaches to help you maximise the nutrients you put on your paddocks.

Apply directly

Ideally you'd apply FDE as soon as possible after collection. That way, there is no nutrient loss from storage and your paddocks immediately reap all the benefits. As we all know, that's not always possible. That's why we'd recommend a good storage solution and stirrers to agitate the FDE and prevent solids building up before application.

Not all effluent spreaders are the same

When effluent sprays into the air through a fine nozzle sprayer or a pressurised sprayer such as a rain gun, a lot of your nutrients are lost in the process. That's why our Nevada RainWave™ is designed to spread effluent in heavy droplets that fall through the air without loss through volatisation. More nutrients reach the soil, feeding the micro organisms that enhance growth in your pasture. Applying a heavy drop with a Nevada RainWave™, trailing shoe, or disc injectors is by far the best method of applying effluent to land.



Improve soil across the whole farm

While councils and authorities are measuring for nitrogen during inspections, effluent actually has a high amount of potassium when compared to nitrogen levels. If you spread this over a larger area, you get the best use of nutrients. This will also ensure there is no potassium build up or issue with high levels of nitrogen in a smaller area.

FDE is packed with nutrients that can significantly improve your soil biology. In particular, lighter soils benefit from effluent collected from barns or feedpads, where higher amounts of nutrient solids are being collected.

By spreading FDE across your entire farm, you can reduce or even eliminate the need for synthetic fertilisers.

Reduce the cost of processing

Another important aspect to consider is the cost in processing effluent. If you're using a solid separator to separate solids from the liquids, you are not adding any value to the effluent itself. You just end up with the same product, but with an added cost.

To get the most value out of the FDE, efficiency is the key. A Nevada RainWave™ provides an efficient way to spread effluent and can easily cope with solids without the hassle of a separator.

Our team knows this business inside out. If you have specific questions about your farm and the best approach for optimal nutrient application, give them a call on this number 1800 963 490.



Nevada's tractor-mounted PTO pond stirrers are the best stirrers money can buy. They offer great value to you by maintaining the capacity of your pond, so you have, in effect, more effluent to spread, and they also improve the quality of effluent, so your effluent is dense with nutrients.

This high performance and efficiency has a lot to do with our Typhoon™ propellers. The angle, size and placement of the blades have been carefully designed and calculated to maximise efficiency. The blades can move up to 10,000,000 litres using less energy and the nutrients within the slurry are evenly distributed throughout the mixture, creating better fert for your soil.

As they are shore-based with a tractor-mount, they are much easier to move and maintain, making them safer and more efficient. A lot of farm debris gets washed into the effluent, which can be very hard on equipment. That's why we opted for our oil impregnanted Enduro Block Hardwood Bearings, which are self-lubricating, abrasive and corrosion-resistant.







Nevada TurboStir™ 6000



Ideal for medium to large ponds

Length	6.8m
Adjust	Hydraulic
Galvanised	Yes
Bearings	Enduro Block
Propeller	Large Typhoon™
Min Tractor Requirements	90hp

Nevada TurboStir[™] 5000



Ideal for small to medium ponds

Length	5.8m
Adjust	Hydraulic
Galvanised	Yes
Bearings	Enduro Block
Propeller	Medium Typhoon™
Min Tractor Requirements	75hp



Liz saved \$20,000 in fert

Based twenty minutes outside of Rotorua in Hamurana, Liz Hodgson runs 240 friesian cows on 136 hectares that supply Open Country Dairy and the family business Volcanic Creamery.

Liz alongside her son Hamish provide cafes and stores around the Bay of Plenty with premium milk and yoghurt. "We started this business here as a value add for our farm and to give us a bit more control over the product we are selling," Hamish said, "taste is another thing altogether. It's unreal, it's amazing, we have so many loyal customers that swear by our milk and that's really what makes it all worth it." With a product that is better for the environment with sustainable packaging, the family business was looking to upgrade to better quality dairy equipment to match the growing need for efficient systems on the farm.

More efficiency

Before upgrading to Nevada, Liz was worried about the effluent system in place. "When I had the old system, I was always worried that an inspector would turn up or something wasn't quite right. It was really hard to not get runoff with the old spreading system. The tanker is just a game changer. There is no stress, you spread it when the conditions are right. You get all over the farm, and no stress," Liz said.

Environmental regulations were increasing and due to living in a high rainfall area, equipment failure and runoff were a major concern. "I had a

stationery rain gun, which was suitable for the contour, good for getting on hillsides, but just not that efficient and a constant worry that something had gone wrong with it," Liz said. Alongside the stationery rain gun, Liz previously was using a basic pond stirrer that operated in the middle of the pond that was difficult to access. Liz noted, "There was probably a metre of sediment that sat at the bottom of the pond, which was impacting the capacity of the pond."

Liz decided to invest in more efficiency and less mess by upgrading to a Nevada electric shore mounted stirrer. With simple install and easy maintenance, the stirrer is now able to keep sediment from building up on the bottom of the pond. "Several features with the stirrer really appealed to me. The fact that the electric stirrer is shore mounted, but you can literally alter the angle of it and the depth into the pond with one hand on a





AT-A-GLANCE

Liz Hodgson

RegionBay of Plenty



farm size 136ha



contourUndulating



cows 240



Better coverage

While initially Liz was looking to just upgrade to an electric pond stirrer, it was the pamphlet left on the table that helped her notice how much value a slurry tanker could bring to the farm. With the previous effluent management system, Liz was only able to spread effluent around the 40 hectares near the cow shed. By upgrading to Nevada, she is now able to spread effluent to 90% of the farm.

The pasture looks healthier and greener with the utilisation of effluent that was already available on the farm, which saves the farm over \$20,000 in costs for fertiliser a year.

No runoff

"Prior to putting in the Nevada stirrer and effluent tanker, it was just an absolute nightmare on a daily basis," Liz remarked. When it came to making the decision about the tanker, Liz chose the Nevada 12,800L Single Axle Slurry Tanker. "The RainWave™ at the back is awesome, even spreading, good droplet size, no runoff," Liz said.

The main appealing feature of the slurry tanker is the minimal load time with three minutes to load nearly 13,000 litres and three minutes to empty. "It doesn't get much better than that," Liz noted. Drive up to the filling station, drop the auto-fill arm and fill up all from the tractor seat.

Easy to use

Liz's main concern before upgrading was about operating the tanker on her own, but Nevada's slurry tanker makes the process is easy. "I'm not a tractor person by choice, but if I can use it, anybody can use it. It's super easy," Liz said.

Hamish says their milk is the best A2 milk in New Zealand and with the help of an electric stirrer and slurry tanker that has eased daily effluent management processes, the family can focus on delivering great products to customers around the Bay of Plenty. "If anybody is looking at a new stirrer or a tanker, Nevada's been great. They are great. The product is exceptionally well made and very easy to use. And the backup from the team at Nevada is great," Liz said.

As Liz points out, "It's been an absolute game changer. Just removed all the stress from the effluent system."

inputs

System 5 & grass silage



EFFLUENT STORAGE 3,000,000L HDPE lined pond



Products

- Nevada 12,800L Tandem Slurry Tanker
- Nevada ELZ915 Electric Stirrer

Figures are approximate only.



WATCH LIZ HODGSON'S CASE STUDY ONLINE nevadagroup.co.nz/infohub/videos/on-farm-case-studies

CUT YOUR FERT BILLS HA NEVADA SLURRY TANKER

With a tanker, you can follow your herd, applying fert when and where you need it. These high-capacity tanks take just minutes to fill and spread.

No fuss or smell, you control everything from the cab of your tractor. This allows you to take and apply effluent to every corner of your farm. You can accurately control where to apply your fert, so you can improve soil health across your whole farm. The end results are paddocks that respond faster and better quality grass for your cows.





MB60EX/MB60EXA

Tank Size	6,150L
Length	5.9m
Pump	8,000L/min
Axle Type	Single
Wheels	550/45 - 22.5
Suspension	Drawbar optional
Auto-Fill Arm	MB60EXA Only
Applicator	RainWave™
Min Tractor Requirements	60hp
Tare Weight	2,380kg/2,530kg

8,200L SINGLE AXLE



MB80EX/MB80EXA

Tank Size	8,200L
Length	6.3m
Pump	8,000L/min
Axle Type	Single
Wheels	560/60 - 22.5
Suspension	Drawbar optional
Auto-Fill Arm	MB80EXA Only
Applicator	RainWave™
Min Tractor Requirements	80hp
Tare Weight	2,880kg/3,030kg

10,000L SINGLE AXLE



MB100EX/MB80EXA

Tank Size	10,000L
Length	7.2m
Pump	13,500L/min
Axle Type	Extra HD
Wheel	600/55 26.5
Suspension	Drawbar
Ezi-Load Arm	MB80EXA Only
Applicator	RainWave™
Min Tractor Requirements	100hp
Tare Weight	3,580kg/3,730kg

10,000L TANDEM AXLE



MB1004R

Tank Size	10,000L
Length	7.2m
Pump	13,500L/min
Axle Type	Tandem
Steering Axle	Yes
Wheels	560/60 - 22.5
Suspension	Axle & drawbar
Auto-Fill Arm	8" suction tube
Applicator	RainWave™
Min Tractor Requirements	100hp
Tare Weight	4,260kg

12,800L TANDEM AXLE



MB1204R

12,800L
7.4m
13,500L/min
Tandem
Yes
560/60 - 22.5
Axle & drawbar
8" suction tube
RainWave™
120hp
5,060kg

14,700L TANDEM AXLE



MB1404R

Tank Size	14,700L
Length	7.9m
Pump	13,500L/min
Axle Type	Tandem
Steering Axle	Yes
Wheels	560/60 - 22.5
Suspension	Axle & drawbar
Auto-Fill Arm	8" suction tube
Applicator	RainWave™
Min Tractor Requirements	140hp
Tare Weight	5,860kg

16,500L TANDEM AXLE



MB1604R

Tank Size	16,500L
Length	8.4m
Pump	16,000L/min
Axle Type	Tandem
Steering Axle	Yes
Wheels	560/60 - 22.5
Suspension	Axle & drawbar
Auto-Fill Arm	8" suction tube
Applicator	RainWave™
Min Tractor Requirements	160hp
Tare Weight	6,160kg

20,150L TRIDEM AXLE



110200	
Tank Size	20,150L
Length	8.8m
Pump	16,000L/min
Axle Type	Triple
Steering Axle	Two
Wheels	560/60 - 22.5
Suspension	Axle & drawbar
Auto-Fill Arm	8" suction tube
Applicator	Duo RainWave™
Min Tractor Requirements	200hp+ Hydraulics
Tare Weight	8,640kg

37,000L TRIDEM AXLE



MB370

Tank Size	37,000L
Length	10.4m
Pump	18,000L/min
Axle Type	Triple
Steering Axle	Two
Wheels	710/50 - 26.5
Suspension	Axle & drawbar
Auto-Fill Arm	8" suction tube
Applicator	Duo RainWave™
Min Tractor Requirements	370hp+ Hydraulics
Tare Weight	12,540kg

upto 43,000L

to Large Farms and Contractors

Standard Features

FRONT VIEW

Internal Baffles To prevent fluid surges.



nevada

Filling Arm

High capacity 8in Auto-Fill. Easily adapted to fill from left or right side (takes only minutes to change)

Huge Siphon Container For vacuum pump protection

Galvanised Tank High durability, high

anti-corrosion, damage protection inside and outside the tank



For extra durability



For safety on rolling terrain and reduced soil compaction. Longer-lasting, high resistance to puncture. Different sizes available on request



added safety in case of tanker tipping sideways. Scharmuller ball and spoon also available

Pond Filling Station

With large 0.5m funnel for quick alignment. Rubber for flexibility and ultimate suction



Heavy Duty Italian Vacuum Pump

For high capacity loading and discharge



Tank Bolted to Full-Length Chassis

To increase durability

Standard Features

REAR VIEW



Tank Sight Glass For easy viewing of effluent level



Steel Implosion Rings Built into tank for increased durability

Pressure/Vacuum Gauge For easy visual control

Large Rear Hatch For easy access and cleaning



RainWave™ Achieves a wider spread.

Quick-Attach **Suction Hose** Coupler

> Hydraulic Parking Jack For quick and easy hitching

Hydraulic Steering (Tandem and Tridem axle option) improves cornering with heavy loads

LED Tail Lights For on-road use



Pre-Tensioned Drawbar Suspension For smoother travelling



Heavy Duty ADR Hvdraulic Brakes Brakes on every wheel

High Quality ADR Suspension System (Tandem and Tridem axle models) reduces jolts and impacts travelling through to the tank. Hydraulic or Air suspension also available. Providing greater stability and operator safety.

Who are bladder tanks right for?





Effluent bladder tanks give you a lot of versatility. In areas with high rainfall or a high water table they are a great choice. There is no dilution of your effluent, And if you need to store your effluent elsewhere, it is not a problem with a tank that can be deflated and set-up elsewhere.

Our bladder tanks are made to the very highest standards, from fabric with exceptional puncture and stretch resistance. They are built to last and certified to ISO 9001 standards.

Because your effluent is totally enclosed from the elements, there is no external contamination or evaporation and limited smell, which gives more options for placement. There is no crusting, although you will still need to agitate the slurry but this is easily achieved with a high-volume pump like the PTO pumps on the next page.

Material Specifications

	33.3.3.3
Coating type	PVC
Finish	Two-sided varnish
Material	PES
Thread	1100dtex
Weight	1300g/m², ISO 3801
Frame breaking strength (warp/weft)	4000/3800N/50mm , NF EN ISO 1421 or DIN 53354
Temperature resistance range	-30/+70°C , EN 1876-2

This technical information is for minimum medium values with a tolerance of +/- 10%.



Benefits

- No oxidation, external contamination or evaporation
- · Limited smell as tanks are totally enclosed (gas vents included)
- No crusting on top of effluent
- Storage capacity up to 2,000m³
- Multiple valves to assist with stirring
- · Quick and easy to install
- · Low maintenance
- Fold-able and transportable
- · Earthquake resistant
- · Safe no risk of people falling in
- 10 year warranty
- · Made in France

Other sizes available.

MULITPLE TANKS CAN BE PLACED INLINE FOR A LARGER STORAGE **VOLUME**

Model	300m³	500m ³	800m³	1000m³	2000m ³
Dimension Empty	13.32x17.47m	16.28x22.94m	19.24x30.2m	20.72x34.70m	35.52x39.23m
Max Height	1.6m	1.6m	1.6m	1.6m	1.6m
DN80 Overflow	3	4	10	10	10
Side DN80 Mixing Valves	5	5	10	14	16



Progressive cavity effluent pumps have a lot of advantages over floating pumps. For a start, they are a lot more efficient.

They are at the side of the pond, so access is much simpler and safer, which means servicing is easier. You also use less power to get the same output, which, over the year, is money in your pocket. On top of that, the pump gives you a constant volume. There are no surprises; it doesn't matter how far the effluent has to travel, you have a uniform flow.

Complete and ready to install, each unit includes:

- · Galvanised head works
- · Intelligent controller unit

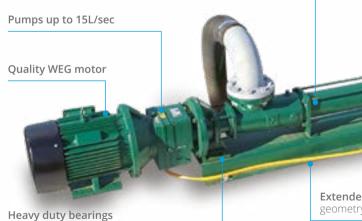
for peace of mind

- Suction hose and base mount ready to be mounted to concrete
- · Outlet pipe connection

No high tension bending shaft, with quality sealed universal joints for smooth operation

Intelligent Pump Controller Equipped with advanced sensors, this controller swiftly detects and responds to blockages and run-dry events, shutting the pump down immediately and automatically, preventing damage to the pump.

Cast iron body with hard plated stainless steel shaft and rotor Nitrile starter for long life



Self-priming, non-clogging operation with high suction lift capabilities

Extended pumping end geometry for increased life

6,990_{+gst}

Model	1860	1890	2690	3690	29100
Flow	18m³/h	18m³/h	26m³/h	36m³/h	29m³/h
Pressure	60m(H)	90m(H)	90m(H)	90m(H)	100m(H)
Power Requirements	5.5kW	7.5kW	11kW	15kW	15kW
Flange Size	80mm	100mm	100mm	125mm	125mm
Solids (Hard/Soft)	9.5/38mm	12/48mm	12/48mm	15/60mm	15/60mm



No electricity? No problem, just roll up and hook your PTO pump to your tractor and you are good to go. Power where you need it.



Bauer Magnum SX1000 Pump Set

With a massive capacity, the Bauer Magnum SX1000 pump set is perfect for contractors & large farms.

- Efficient and economical
- Low operating costs
- Easy maintenance
- · Can handle up to 12% solids

.990_{+gst}

	SX10	00
Capacity	300,000)L/hr
Flow 10-480m ³ /h		m³/h
Pressure	40-160H(m)	
Tractor Requirements	100-200hp	
Mounting Options	Standard: 3 point linkage	Option: Trailer mount

Rovatti PTO Pump Set

With four options to choose from the Rovatti PTO Pump Set is a suitable option for all contractors or any size dairy farm.

- 5m suction hose with strainer
- Drive shaft
- · Hard-face lubricated mechanical steel

_				
	TL2-85	TL3-80	TL3K-80	TL4K-125
Capacity	Upto 100,000L/hr	Upto 150,000L/hr	Upto 150,000L/hr	Upto 220,000L/hr
Flow	10-100m ³ /h	20-150m ³ /h	20-150m ³ /h	20-220m³/h
Pressure	50-75H(m)	90-110H(m)	90-105H(m)	90-110H(m)
Tractor Requirements	40-80hp	40-90hp	50-100hp	60-130hp
Mounting Options		Standard: 3 point linkage	Option: Trailer mount	

2,650_{+gst}



We've got everything you need for operating the ultimate umbilical drag hose system. Equipment can be purchased individually or as part of a package deal.

RainWave™ 3PL Applicator

Nevada's RainWave™ 3PL applicator easily attaches to your tractor, providing a controlled, even spread. The RainWave™ produces larger droplets, meaning less wind drift and volitisation for better nutrient absorption. This controlled application makes it ideal for spreading near boundaries or around irregular shaped paddocks.



Heavy Duty, Effluent Grade Layflat Drag Hose

Top quality PU and rubber lay flat hose is puncture resistant and stands up to rugged farm use.

- · 102, 127 and 152mm diameter
- · 3.3mm-4.0mm wall thickness
- 17bar max working pressure (250 PSI)
- · 42bar burst pressure (610 PSI)
- 13,800 17,900 kg (in tonnes) tensile strength.



Both random wrap and segmented mounted umbilical hose reelers are available, and all are fitted with a heavy duty, 3 point linkage and a female Quick fit 'A' frame. When the male 'A' frame is located it is secured by two loose fitting pins.

DROP EFFLUENT DAM LEVELS FAST, READ MORE nevadagroup.com.au/products/drag-hose-system



levada ERTIGATOI

Maintaining a clean and healthy environment for your cows is paramount, and that's where our new Nevada Yard Scraper comes into play.

The Nevada Yard Scraper is designed to efficiently scrape and collect dairy effluent from areas where cows congregate, such as milking sheds and holding yards. The waste can be pushed into your pond or a collection point such as a sandtrap, preventing runoff and protecting local waterways. This not only helps in meeting stringent environmental regulations but also promotes better cow health by reducing the risk of disease enhancing overall farm hygiene.



Scraping width of 2800mm



Nevada Fertigators™ suit both small and large pumps, and can be used in conjunction with a travelling irrigator.

Features

- 10mm, 12mm, or 14mm nozzles minimise blockages.
- · Gun constructed from metal.
- Up to 1500m² coverage (at 45psi).
- · Common 2 inch camlock fittings.
- · Wide 700mm diameter base for stability.
- 1 1/2 inch camlock connector for quick removal of gun from base.

Benefits

- · Low application pods.
- Excellent for spreading effluent onto hillsides.
- Minimal maintenance required.
- · Can be used with both small and large pumps.





Optional tow kit **sold seperatley** for towing with ATV.



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