

MANCO

A QUARTERLY PUBLICATION OF MANCO ENGINEERING GROUP

MATTERS



A Barrier transfer vehicle in operation, transferring the barrier across one lane during normal traffic flow

New Zealand's GREATEST LIFTERS

Over 55 Million Tonnes of life saving safety over 17.5 years!

The Auckland Harbour Bridge Barrier machines, manufactured under licence by Manco Engineering, have set what must be a qualifier for the Guinness Book of Records.

Prior to their commissioning in December 1990, the Harbour Bridge was notorious for frequent fatal and serious "head on" accidents. Introducing 2200 concrete barrier median separation blocks, weighing 1000kg has resulted in four lifts daily during peak crossing times, equating to a massive 55 million tonnes of reliable lifting!

Transfield Services is responsible for the daily operation of the vehicles on behalf of Transit New Zealand, and have found the medium barrier machines to be extremely reliable over the past 17 years.

Besides the major safety aspect and with Auckland's growing population and increase in traffic volumes, the medium barrier machines provide an essential function in lane variation management, maximizing lane availability as peak hour traffic flows in and out of the CBD.

Shortly, these great work horses will be replaced with new, high-speed units, and narrower barriers.

EDL MEETS EXACTING US NAVY SOIL REMEDIATION STANDARDS IN SAN FRANCISCO

Manco associate company, Environmental Decontamination Ltd (EDL) has recently successfully completed an extensive evaluation programme of its patented MCD (Mechano-Chemistry Destruction) contaminated soil technology with the US Department of the Navy, through its US partner Shaw Environmental & Infrastructure.

San Francisco Naval Shipyard at Hunters Point employed 8500 civilians during the 1950's and housed the Navy's Radiation Defense Laboratory and Pacific Fleet. Established as a commercial Shipyard in 1870, it was acquired by the Navy 11 days before Pearl Harbour. Subsequently known as Hunter's Point Naval Shipyard; after ceasing active operations in 1974 the Navy leased the Shipyard to a commercial ship-repair company until 1986.

Carrying out the second of a series of repetitive tests at the 500 acre waterfront Hunters Point Shipyard site located at downtown San Francisco, the MCD process successfully remediated contaminated PCB soils to below the exacting "one part per million" threshold requirement.

During the evaluation tests, the process was subject to full independent mass balance analysis, where inputs and outputs including particle and gaseous phases were required to balance. The results enabled a complete understanding of the full chemical destruction. EDL, working through its relationship with Shaw, are expecting to enter into significant full scale contracts at applicable North American contaminated sites in the near future, with a full scale plant currently under manufacture.





THEY TAKE THE GOLD — BUT WE MOVE THE ROCKS!

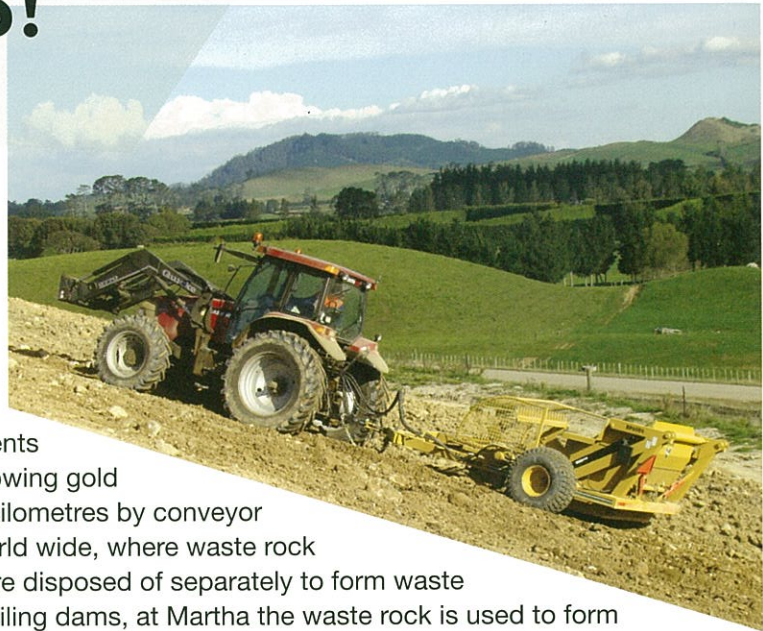
Gold Mining at Waihi, has a history that spans three centuries, with William Nicholl pegging a 5 acre claim, and naming it Martha after a family member.

With low gold prices in the 1950's the mine with its 600 employees ceased, and it was not until 1976 when the 'Modern Martha' restarted, with a prospecting licence, and the New Martha commenced current day operations 12 years later in 1988.

Today MacMahon Contractors handle the mining activities for the owners Newmount Waihi Gold. With material movements annually of approximately 1.5 million bank cubic metres, following gold extraction operations, this massive volume is transported 3 kilometres by conveyor to the Waste Rock Embankment area. Unlike most mines world wide, where waste rock

and tailings are disposed of separately to form waste dumps and tailing dams, at Martha the waste rock is used to form engineered earth embankments behind which the tailings are deposited.

In the final phase prior to top soiling and sowing into pasture, and working at 30 degree grades, the AGNET supplied VERMEER RP6084 Rock Picker removes all rock oversize, providing an excellent pasture foundation. AGNET is proud to be involved with both MacMahon and Newmount on this important environmental aspect of their quality mining operations.



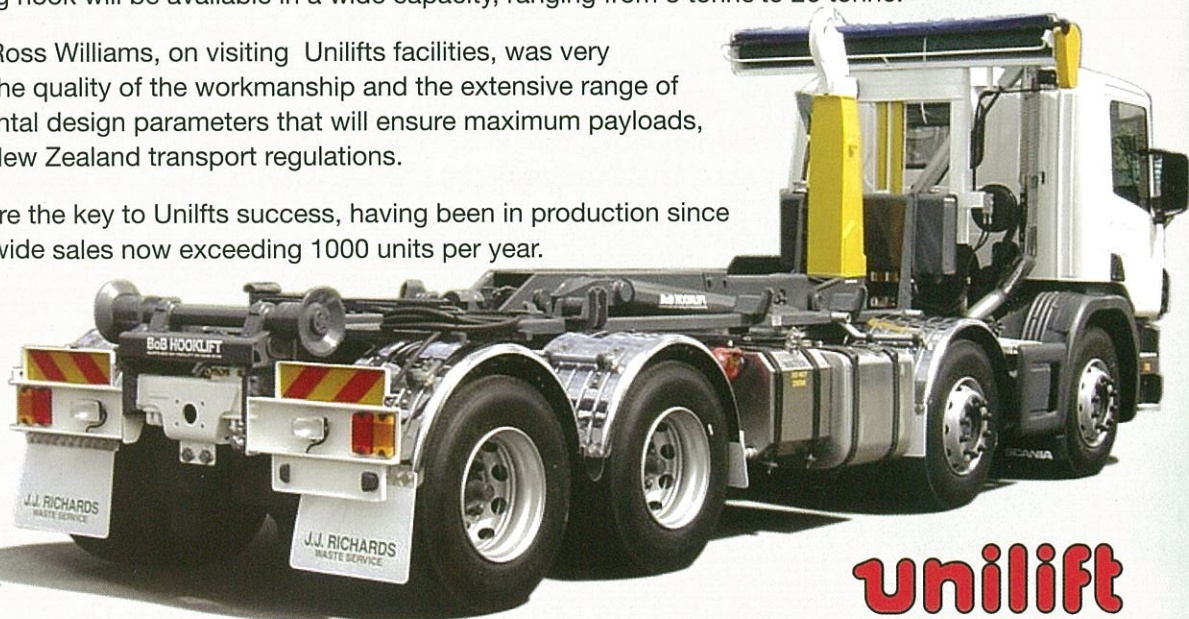
EUROPEAN UNILIFT'S AUSTRALIAN SUCCESS NOW MOVES TO NEW ZEALAND

Following the overwhelming success of the European "Unilift" rear loading hook lifts in Australia, Manco Environmental has been appointed as New Zealand distributor for this prestigious product in New Zealand. The European manufactured rear loading hook will be available in a wide capacity, ranging from 8 tonne to 26 tonne.

Manco's Chief Engineer Ross Williams, on visiting Unilifts facilities, was very impressed not only with the quality of the workmanship and the extensive range of models, but the fundamental design parameters that will ensure maximum payloads, and lift performance for New Zealand transport regulations.

Durability and longevity are the key to Unilifts success, having been in production since 1976, with annual world wide sales now exceeding 1000 units per year.

The Unilift models will ideally compliment Manco's New Zealand manufactured "Huka" range that have now been in production for over 27 years!



unilift

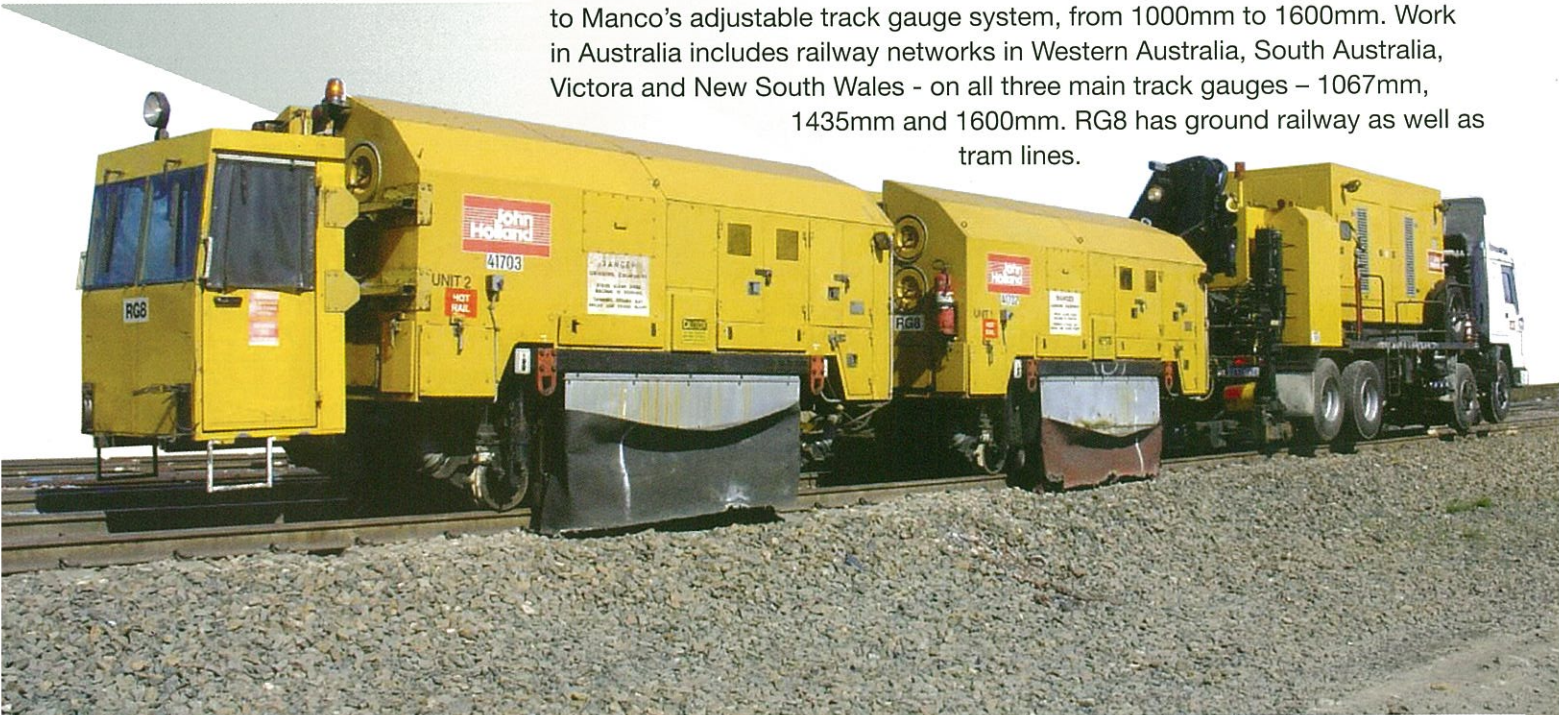


The John Holland RG8 Rail grinder was a recent visitor to NZ rail, carrying out rail grinding operations in the Auckland region for OnTrack. This powerful small machine is particularly suitable for specialist track quality enhancement work such as defect removal and turnout grinding.

The heart of the 23 metre long - 46 tonne, three section unit is an eight wheeled FL10 Volvo prime mover or "Power Car" utilising Manco hydrostatic twin drive Road\Rail modules, providing an on track speed of up to 55 Kph. The "Power Car" incorporates all the required electric grinding motor power, control systems, and full fire fighting support. The twin grinding units house eight independent rail stone cutters and full dust extraction system.

Having now been in service for over seven years, this versatile unit has travelled extensively through out Australian and New Zealand railways due to Manco's adjustable track gauge system, from 1000mm to 1600mm. Work in Australia includes railway networks in Western Australia, South Australia, Victoria and New South Wales - on all three main track gauges - 1067mm, 1435mm and 1600mm. RG8 has ground railway as well as tram lines.

JOHN HOLLAND RAIL GRINDER VISITS NZ RAIL



METALLIC SWEEPING GO THE BUCHER SCHORLING WAY!

Nationwide Roding Maintenance Contractor, Metallic Sweeping took delivery of its first Bucher Schorling Road sweeper in June 2007. Having previously operated a fleet of twenty two quantity Johnston sweepers, there was obviously some apprehension to move to an alternative manufacturer. However, these initial concerns have proven to be unfounded. The European manufactured Bucher has proven to be exceptionally reliable and well equipped to handle the wide cross section of demanding tasks Metallic's contracts are required to address. While the bulk of the work is cleaning the streets and sumps for Papakura District Council, the sweeper has also proven its metal for chip recovery and industrial yard sweeping. So impressed by the performance, reliability and cost effectiveness of the Bucher, Metallic has purchased a second unit for their Waipa District Council and are considering a third unit for upcoming projects.



Christchurch based Metallic Sweeping grew from humble beginnings a decade ago and is now a major player in the New Zealand Road Sweeping and Facilities Cleaning and Maintenance business. The Bucher Schorling purchases, compliment a significant fleet of over 85 vehicles including sweepers, compactor trucks, waterblasters and utility vehicles to service its extensive contracts with Local Authorities throughout the country.

PERRY FOCUS ON EFFECTIVE STATION PERFORMANCE IN THE BAY OF PLENTY ROTORUA MAINTAINS EFFECTIVE REAR LOADING STREET COLLECTION

Major North Island waste services company – Perry Environmental Waste Services – have completed acceptance and commissioning of a Manco TS700 Transfer Station compactor for its Te Maunga Transfer station in Mt. Maunganui.

Perry has had a long association with Manco – having operated a Manco TS1100 transfer station compactor since 1999 at its Tauranga facility in Maleme Street and has found the unit to be a workhorse at compacting general refuse. Perry's consider the simplicity and operator friendliness of the Manco compactors as a distinct advantage, as well as minimal service and maintenance costs.

Bay of Plenty residents and local waste collection contractor's discharge refuse into a recessed concrete acceptance pit, prior to wheeled loader transfer into the transfer compactor receiving chamber. Provided with standard or remote operator control, from the wheeled loader, energy conservation is assured with compaction only actioned when hopper capacity is utilised. Compacted refuse discharges into enclosed compaction bins, fitted with hydraulically operated locking arms which allow for quick connection and disconnection. Maximising payloads with 13000kg in the 34 cubic metre bins, transported to landfill facilities at Paeroa. Te Maunga transfer station handles over 30,000 tonnes of refuse annually, and is complimented with a full recycling facility, maximizing waste reduction.

Castlecorp – the Works and Services unit of Rotorua District Council has recently taken delivery of two Manco 19 cubic metre rear loaders, suitable for 6 x 2 cab and chassis, with a legal payload of 8500kg.

Castlecorp is utilizing these units for the Rotorua residential rubbish bag collection service throughout the Rotorua District. They are particularly impressed with the accessibility of the hydraulic rams on the Manco units, as opposed to other units, where the rams were found to be difficult to access for greasing and maintenance.

Castlecorp has also used the opportunity to reinforce their "brand" around the Rotorua region by adding distinctive advertisements to the sides of the compactors. The Refuse trucks travel nearly 1000km per week, so provide an effective method of public awareness using the units as travelling bill boards.



BEAUTIFUL QUEENSTOWN ELECTS MADVAC

General Manager of Community Services at Queenstown Lakes District Council – Paul Wilson, recognized that in an international tourist resort destination like Queenstown – clean pavements is a must! When Paul first spotted the Madvac PS300 while on holiday in the U.K, he actually only needed to go as far as his neighbours in Invercargill who have also operated this Madvac pedestrian sweeper for nearly four years.

The Madvac PS300 pedestrian sweeper was chosen as the ultimate partner to tackle the challenge of cleaning Queenstown CBD with its myriad of lanes and pedestrian retail streets. Being quiet, unobtrusive and visually working for the ratepayer, the PS300 sucks better than a thirsty elephant!

“Its ideal for a resort town like Queenstown where on any given night there is backpackers out partying until the sun comes up and inevitably rubbish gets left behind”, comments Paul. The PS300 efficient acceptance of bottles, cans, cigarette butts as well as leaves and the notorious Central Otago Schist stone dust. Being manufactured in Quebec, Canada, the Madvac range of sweepers and litter collectors are well suited to the Central Otago extremes of colder winters and hot, dry summers too.

MANUKAU CITY ADDRESSES HIGH VOLUMES OF NIGHT LITTER

Since July 2007, experienced Facilities Management service provider Eco Maintenance has been operating a Mathieu Azura Concept 2000 compact sweeper.

Eco Maintenance contracts to Manukau City Council for the cleaning and maintenance of the regions commercial areas incorporating Howick, Pakuranga, Otara, Manurewa, Manukau, Papatoetoe and Otahuhu. This is arguably the most challenging contract in the country in terms of the volume of constant street litter, generated by the significant amount of fast food outlets, and shopping centres.

As the incumbent to the Eastern side of the Manukau City Council contract prior to taking on the entire Manukau City regions cleaning contract, Eco Maintenance was well aware of the rigorous demands that would be placed on a sweeper.

The Mathieu Azura has proven to be an ideal partner in meeting such demanding conditions. The sweeper is often required to travel 20-30km a night given the large geographical distance between each commercial centre and with a road speed of 50km/hr it is easily up to the task. Similarly, the superior suction power of 13,000m³ /hr compared to other compact sweepers in the two cubic metre class, means the Azura has no trouble handling large quantities of late night street litter discharges.



USA OUTDOORS MIKE - GOES AGNET PRESEEDER



For USA born Mike Delucci, love for the Kiwi outdoors has resulted in a successful turf construction business, operating throughout the Coromandel. Working with the articulated self propelled Agnet Model 365 900 Preseeder, Mike offers a complete lawn service from irrigation, lawn repair and full lawn preparation and maintenance.

Between fishing, surfing, mountain biking, and numerous other outdoor pursuits, Mike has established a formable business based in Whitianga, a far cry from his birth place, the famous Idaho potato region.



MERCURY BAY GOLF CLUB CUTS TIME WITH THE "BIG MOW"

Whitianga's golf club's recent Land Pride 14 foot All Flex mower purchase, is the widest of the numerous Land Pride multi deck units operating throughout New Zealand golf clubs.

With over 16 clubs now operating Land Pride All Flex rough mowers, this new generation model offers the same contour following features, that have previously been available on the popular 11 foot units. With models up to 22 foot as operated by Ian Bigbie at Ashburton Airfield, the All flex range is ideal for multiple applications from Golf clubs, local authorities, through to demanding commercial contractors.



BELLING CONTRACTORS GIVE THE THUMBS UP TO NOREMAT REACH MOWERS

Taupo based and well known Jeta Belling of Belling Contractors is a man with a reputation, not afraid of "pulling any punches" when it comes to equipment evaluation and purchase.

Having over 30 years experience in road side mowing and vegetation control throughout the central and upper North Island, Jeta put the Noremata Optima through an extensive work program prior to confirming his company's purchase. With a reach of 5.5 metres, and a 1.6 metre cutting head, the Normat, with it's smooth infinitely variable control, excels in the New Zealand conditions. Another feature important in the Jeta's decision making was the patent quick attach and remove "Y" shaped flails, enabling removal and replacement in under a minute!



Thank you Jeta, Agnet looks forward to cutting a strong future with you!



MEYER – TURNING MANURE INTO A MANAGEABLE RESOURCE

From liquid manure, dairy effluent through to compost and sludge, the new American manufactured Meyer manure spreaders are already creating significant interest amongst contractors and farmers alike.

Meyer Manufacturing, with over 60 years experience in farm equipment production in the central American agricultural heartland, have released their highly sort after patented auger feed manure spreaders to the International market place.

With the increasing cost of traditional fertilizers, the use of manure based products is becoming an attractive resource and sound commercial option. With the triple auger system, mounted the length of the body, not only is mixing of addition products achieved, but regulated and consistent feed is assured to the rear mounted vertical expellers.

Units are available from 6 cubic metres to 15 cubic metres, and an attractive truck mounted option maximizes NZ road transport axle and payload requirements.

Demonstration units are available on request as well as nutritional data.

BRIGHOUSES GO SEKO... NO 3!

Mike and Lesley Brighthouse, along with son Shaun, have taken delivery of their third Seko 17 cubic metre mixing and chopping, supplementary feed out wagon.

Operating for over 25 years, on their 135 hectre, 500 herd dairy operation at Kaipaki, near Cambridge, the Brighouses grow a significant amount of their supplementary feed. Achieving 273,000 kg milk solids in last years drought year, is testament to the feed programmes success.

A balanced and well mixed ration of straw\maize silage\palm kernel\Avon feed\Brewers grain\kiwi fruit\molasses\P8 or P6 whey and liquid dunder, all complete an excellent nutritional package. Agnet/Seko and the Brighouses look forward to this enterprising partnerships future success!



LEADING GOLF & SPORTS CONTRACTORS STANDARDISE WITH LAND PRIDE

Major New Zealand wide T.I.C. Contracting, renowned for their exacting golf course construction standards, has incorporated a significant range of Land Pride product within their specialist construction equipment tools. Operating Land Pride blades, box scrappers and rakes for primary shaping, their project needs extends into powered rakes, and seeders.

In addition to having played a major role in many of New Zealand's leading golf courses, T.I.C offer a complete course and sports field renovation programe incorporating a multitude of specialist Land Pride equipment.

With regional offices in Auckland and Queenstown both North & South Island clients are well catered.



ALPACA & AVOCADO ORCHARD CUTS IT FINE WITH LAND PRIDE ZERO TURN

Mary and Wayne Dalley, find their Land Pride 54 inch ZXT Pro Zero turn Mower, is meeting all their expectations on their large 15 Hectare Northland combination orchard block. Looking for a speedy and maneuverable solution, to negotiate the 1000 plantings, the Land Pride unit completes the 15 Hectare mow in 5-6 hours.

With it rugged construction, three year unconditional warranty, this new series, offers a unique floating front axle, ensuring equal ground bearing pressure, along with an industry first hydraulic cooling within the mowers chassis. Mary finds the 26HP Briggs & Stratton 4 Stroke Power ideal for the undulating ground conditions.



SUCCESSFUL DIOXIN TRIALS IN TOKYO

Environmental Decontamination Ltd (EDL) in conjunction with its Japanese partner Masato Maruyama of PCI –Nippon Ltd have successfully completed a series of repetitive trials, with dioxin contaminated soils. Working with high dioxin concentrations, 11,600 pg/g the soil was successfully remediated to the exacting Japanese standard of less than 250pg/g International Toxic Equivalents of dioxin remaining in the soil. For the non-initiated to such chemistry abbreviations, a weight of one “pg/g” is the equivalent in scale to a distance of 150mm over the distance to the sun!

The MCD technology used was based on the full scale Series V Reactor, currently under manufacture. Additional to the destruction efficiency requirements, the ability to reduce the noise level to less than the statutory limit of a noise 65 dBA at 5 metres. A 65 dBA noise level would be what would be expected in a quiet residential area.

There are up to 440,000 contaminated sites in Japan, with the remediation market estimated at US\$108 billion, and annually at over US\$1billion. EDL's focus is clearly to participate in this activity in the very near future.



MANCO SWEEPERS & DELTA UTILITIES LTD ON A CRUSADE THROUGH DUNEDIN

Dunedin based Delta Utilities Services Limited has purchased a Bucher Schorling truck mounted sweeper and a Mathieu Azura compact sweeper for the Dunedin City Council Roading Network Maintenance Contract.

Considering the excessive amount of debris and mess often created by the local student “Scarfie” population in the likes of the notorious Castle and Howe Streets, no doubt these units have been well chosen to handle this challenging environment. Every night, the Azura compact unit can be seen cleaning the footpaths and roads of the Dunedin CBD. The Bucher's territory will be the outer lying areas of the CBD and streets of Dunedin.

MANCO
ENVIRONMENTAL

0800 274 986



ENVIRONMENTAL DECONTAMINATION LTD



0800 4 AGNET

MANCO RAIL

MANCO ENGINEERING GROUP

For further information see:

www.manco.co.nz
www.agnetequip.com
www.edl.net.nz

139 Cryers Road, East Tamaki
PO Box 58-609, Greenmount
Auckland, New Zealand
Phone: +64 9 274 9862
Facsimile: +64 9 274 7393