

Our vision: to excel in resource recovery and commercial performance by using innovative technology to transform waste into useable products

on the  
right track  
to  
recovery



Last year was a substantial growth year for Resourceco and CSR Recycled Products with many new developments within the industry.

Whilst there was a very quiet period over the implementation of the GST, the last two months showed substantial improvement in sales volumes and incoming product.

There are some executive projects in line for this year, that will be important to not only the quarry and resource recovery industries but also to the overall economy of the State. Notably, the redevelopment of

the old DSTO site at Salisbury (Marlu Curu) and the Port River Expressway, which will bring much needed revenue into both the civil contractors and our industries.

Resourceco would like to congratulate all those involved in these developments. The Expressway is of great significance as it will open up areas of the Port River frontage, Gillman as well as many other parts of the City of Port Adelaide Enfield.

I am also very excited with some of the developments that have been initiated in conjunction with the Waste Management Committee.

**From the desk of Simon Brown**



There is more detail on these projects in this newsletter. In particular, the concrete trials with the CSIRO in Melbourne look very

promising and we believe the ability to recycle old concrete into new concrete is the ultimate in C&D recycling.

Resourceco now have an operational Pug Mill that enables wet mix capability and potentially cement treated capability. The opportunities that this initiative will open up for us will be vital to the further development of resource recovery and in particular the use of recycled pavement materials on Transport SA projects.

regards Simon



MAGAZINE WETLANDS

Minister Di Laidlaw recently visited Resourceco with Graham Ingerson. The minister was shown through the site by John Heard, Simon Brown and David McMahon from Resourceco and Mike Canney, General Manager of CSR Readymix SA/NT.

Whilst on site the Group viewed our range of products and discussed their possible use on the Port River expressway and the many associated projects that will develop as a result of the project.

**Minister Laidlaw Site Tour**



Government pressure is building, community expectations are rising and only the true market leaders will survive with their reputations intact as we grow expeditiously towards a more self-sustainable environment.

Collaboration is the key to ensuring your organisation meets the increasing waste management standards, and South Australia's own Waste Management Committee (WMC) offers many such opportunities.

Programs such as the *Stormwater Pollution Prevention Code of Practice* for the building and construction industry and the recently released *Discussion Paper for the Future of Waste Management in SA* are two strong examples of collaborative leadership currently offered.

**Collaboration is the Key**



Many other joint partnerships are under negotiation as the year shapes up to be a significant one for resource recovery.

"We are currently funding three trials related specifically to the building and demolition industries", WMC CEO Tony Johnston said. *"Use of Concrete Aggregate in premix Concrete, Assessing the Potential for the Separation and Recycling of Demolition Materials* and a *Trial to Reduce and Recycle*



Collaboration is the Key

The Minister for Water Resources, Mr Mark Brindal, took a first-hand look at the many diverse issues in the Torrens Catchment area when he toured the catchment with the Board's Presiding Member Jay Hogan and General Manager Alan Ockenden.

From the Hills to the sea, the catchment tour took in hobby farms and horticulture to light and heavy industry, with suburbia in between. At each destination on the tour the Minister was shown the issues and problems faced by the Board and its officers and briefed

on the strategies and programs that have been put in place to address them.

At the old Wingfield landfill site, the Minister saw the operations of Resourceco, which recycles construction and demolition waste. The company also recovers scrap metal and timber for processing by other waste recyclers.

The site processes 500,000 tonnes of product each year, preventing a large amount of waste from going to landfill while at the same time providing a useful product.

Resourceco have recently taken delivery of a state-of-the-art crushing plant, capable of processing up to 250 tonnes per hour from 20mm to 150mm.

This plant will be used extensively in country areas where local governments and private enterprise don't have the volumes that require a permanent plant.

This plant weighs 49 tonnes and has a 42-30 inch jaw that will tackle any job from granite to quartz and with its inbuilt magnet belt even concrete is no problem to this unit.



Building Construction Waste will provide valuable data for the building and demolition industries and further work must continue if we are to make a serious and positive impact on the environment", he said.

As technologies improve and markets develop the WMC is committed to instigating further research and development to enable the recovery of materials not viable for recovery, but they must be supported by industry and then a collaborative approach can herald benefits for all.

The WMC encourages enquiries from industry be they about existing projects or new suggestions, and can be made direct to the Committee on 8223 6684.

A visit to their recently updated website is also recommended ([www.wastecom.sa.gov.au](http://www.wastecom.sa.gov.au)). This site will be regularly updated with information about projects and other initiatives, so you may want to make it a regular visit.

*The WMC is a government funded, independent arm of the Dept for Environment and Heritage, but plans are underway to revise this situation and you may want to contact them to discuss how you can be involved in their future.*

Recent audits of home construction sites at Mawson Lakes and North Gate in Adelaide's North and North East show that on average the construction of a new home produces an average of 24 cubic metres of waste. Working closely with the Waste Management Association, Resourceco are placing waste containers on these trial sites and the type and quantity of waste is monitored and recorded. By the middle of the year this information will be available to all builders to assist them in managing their building waste.

Simon Brown, the Managing Director of Resourceco, said that his company would work with waste collection agencies to remove and process this huge amount of waste material. "It's not just a matter of being unsightly. Some of this

rubbish blows away or is washed away in rainy weather", he said. He also commented that if the building industry did not regulate itself in this matter, then the EPA would eventually impose standards and implement fines.

"The degradation of our environment is a key factor in community thinking. Increasingly, those builders who can demonstrate a responsible approach in this matter will win market approval." Of more immediate concern, builders who contain construction waste will produce both a cleaner and safer working environment for their contractors that will assist in addressing Occupational Health and Safety issues.

There is still a great deal of inappropriate dumping being done 'on the cheap' in South Australia.



**Pegsun Premier Track Mobile Crushing Plant**



The Pegsun Premier Track Mobile Crushing plant also comes with a scalping belt and as such fines can be removed prior to the crushing process. These can either be brought back into the finished product or stockpiled separately.

*WINGFIELD WASTE MANAGEMENT CENTRE*

*ETLANDS PRESSWAY*

HANSON ROAD

INTEGRATED WASTE MANAGEMENT

WINGFIELD ROAD

CORMACK ROAD



SALISBURY-SOUTH ROAD CONNECTOR

WINGFIELD

**CSR Recycled Products**

**PRODUCT UPDATE**

Builders who are doing the right thing by containing waste on-site should ensure that their waste is being disposed of at a resource recovery facility.

Resourceco currently process 500,000 tonnes annually of construction and demolition waste. These processed products are then reused for road building, composting and scrap steel. Only 5% of waste received is returned to landfill.



West Lakes Boulevard Cement treated trials

With the re-development of West Lakes Boulevard to accommodate the increased capacity of the new northern stand at Football Park, Transport SA and Bardavcol have been working closely with staff of CSR Recycled Products and Resourceco to trial Recycled products in TSA contracts.

The project is the implementation of new bus lanes and an interchange. There was an opportunity to trial 4% cement treated recycled products. After much deliberation it was decided that the most appropriate areas for the trial was on the southern side of the Boulevard, almost

immediately to the west of Frederick Road.

CSR Recycled Products produced 400 tonnes of product for the trial and the 98% compaction was easily achieved, which was very pleasing given that the product was double handled with bobcats and only a light roller due to the size of the area to be filled.

James Crisera of Bardavcol pointed out "on a sandy base such as the one at West Lakes, we struggled to get compaction from the cement treated dolomite with a big roller but the cement treated PM71 achieved compaction easily". Transport SA have since done some strength testing on the finished surface and early indications are that the product is performing to expectation.



**CSR Recycled Products**

**TECHNICAL UPDATE**

**Resilient Modulus Testing shows stiff competition between recycled and traditional quarry materials**

There are many reasons why the civil contract industry should view Recycled products as an excellent alternative to Traditional quarry products.

The following is an excerpt from a report prepared by Transport SA.

“Resilient modulus is a measure of the stiffness or resistance to deformation under load of a structural material. It is an essential design input into mechanistic pavement design analysis, and is used to determine the thickness of pavement materials required to support the imposed traffic loading.

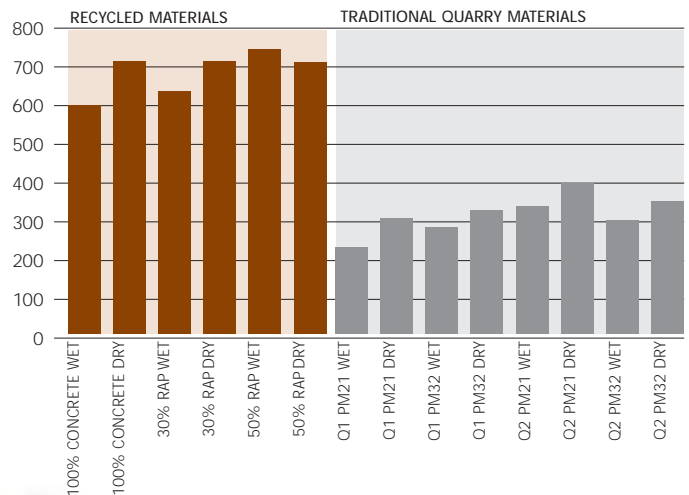
The chart below shows the resilient modulus of the various blends of crushed asphalt and concrete. These are compared against their traditional crushed quarry counterparts produced from commercial sources in Adelaide.

It is thought that this high stiffness is due to the very rough surface texture of crushed fragments of concrete leading to higher levels of frictional resistance between particles under load.

• Resilient Modulus values and strain rates are comparable with traditional quarry products.

- Specification limits for these performance-based characteristics are included in the new PM 2000 specifications.
- Recycled Pavement Material Class 2 is suitable for use in pavement applications where quarry rubble has previously been specified.

- Recycled Pavement Material Class1 is suitable for use in pavement applications where crushed rock has previously been specified.
- Performance-based materials testing is an integral part of pavement design in accordance with Austroads Pavement Design Guide.



## Annual Dinner



What an environmentally friendly evening it was at our Annual Dinner .

CSR Readymix and Resourceco took us back to nature with a room full of greenery, as well as a native Australian shrub for each person to take home and plant. To set the mood for the night, we were entertained by the sounds of the outback by a didgeridoo player as guests arrived and seated themselves.

We were pleased to have the company of the Premier of South Australia, the Hon John Olsen MP, at our dinner and he addressed the guest on the state of the local economy and industry.

Entertainment for the evening was provided by a delightful comedian Ray Gilson, followed by the foot-tapping beats of Hot House to dance the night away.

Many thanks and appreciation goes to our sponsors for the evening, CSR Readymix and Resourceco for the commitment and involvement in organising this successful night – and we can't finish without mentioning the fantastic job Mike Haywood and his team did on the production of a video that people are still talking about!

## Builders' Lunch at the Red Ochre Restaurant

The Builders' Lunch on September 8 at the Red Ochre Restaurant was a huge success with 25 companies represented from a very wide cross section of the building industry.

Also present were representatives from the SA Housing Trust, the HIA, the EPA and KESAB who are very supportive of the need to change the current practices for waste management in the building industry.

Several of the building companies have followed up with Resourceco and we have been

very successful in establishing trials with builders bins ( see 'Collaboration is the key' article in this newsletter). The South Australian Housing Trust has also been very active and in conjunction with industry groups and the Waste Management committee will be developing new specifications for demolishing and building Housing Trust homes. We will be performing a demolition study at Westgate in the Western Suburbs. More news in future editions of this newsletter.

## CSR Recycled Products

255 Port Road  
Hindmarsh  
SA 5007  
PO Box 254  
Hindmarsh SA 5007  
Tel (08) 131188  
Fax (08) 8203 8920  
[www.readymix.com.au](http://www.readymix.com.au)

## KESAB Award



KESAB environment award for minimisation of construction and demolition waste to landfill.

Congratulations to Jack Mahoulos and his team at Richmond Demolitions for winning the Resourceco award at the KESAB Metropolitan Environment Awards held at Business SA, Greenhill Road on 22 November, 2000.

Jack operates his own salvage yard at Richmond and transports all of his waste from concrete footings and mixed construction and demolition waste to Resourceco. Jack and his team are always exploring ways of reusing the products they salvage from demolition sites and his system of recording volumes from each job they undertake ensures that no resources are lost to landfill.



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Visit the Resourceco website at  
[www.resourceco.com.au](http://www.resourceco.com.au)

**RESOURCECO**  
THE SUSTAINABLE RESOURCE COMPANY

Corner Hines Road  
& Wingfield Road,  
Wingfield, SA 5013  
PO Box Enfield Plaza  
SA 5085  
Tel (08) 8347 3329  
Fax (08) 8347 3556  
ABN 45 068 976 803