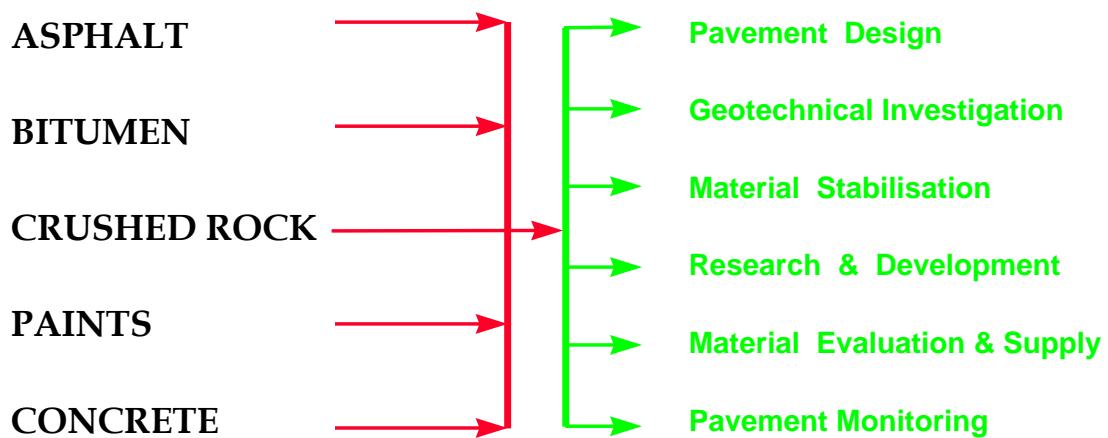


# MATERIALS TECHNOLOGY SECTION

*Innovative Pavements & Materials*



# **PAVEMENT REHABILITATION REPORT**

**Project : RN 2000 EYRE HIGHWAY, SOUTH AUSTRALIA  
PAVEMENT REHABILITATION & WIDENING  
ROADBOND EN-1 AND LIME FLYASH  
STABILISATION**

**Date: 22 August 2011**

## **MATERIALS TECHNOLOGY SECTION**

*“Innovative Pavements and Materials”*

**Department of Transport, South Australia**

Materials Technology Section  
19 Bridge Road, Walkley Heights

P.O. Box 82 Blair Athol, South Australia 5084

Author: Bob Andrews, Supervising Materials Engineer  
Telephone: 618 8260 0244  
Facsimile: 618 8260 0454  
Email: bob.andrews@roads.sa.gov.au



**DEPARTMENT OF  
TRANSPORT**

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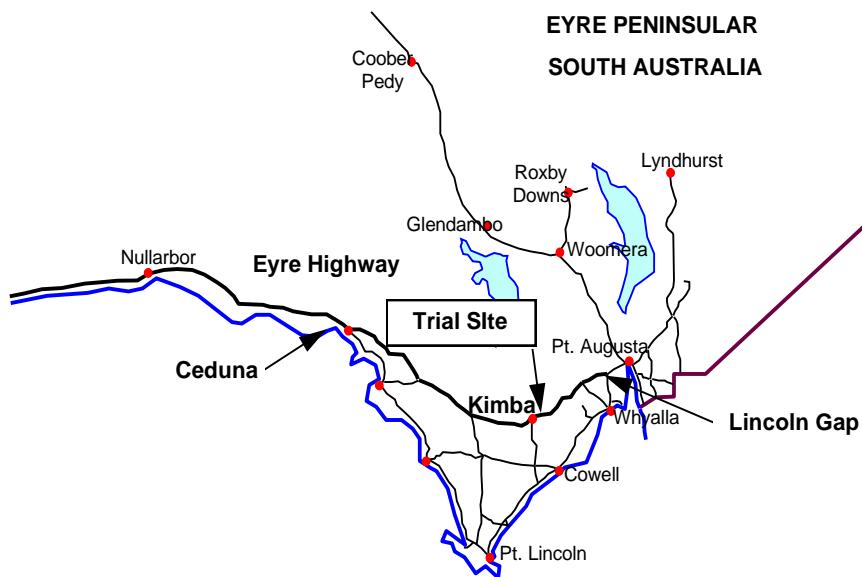
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## BACKGROUND TO EYRE HIGHWAY REHABILITATION

Since 1989 the Department of Transport, South Australia has been undertaking a program of widening and rehabilitating 600 kms of the Eyre Highway between Lincoln Gap and Ceduna (locality plan Figure 1). This road was built in the mid 1960's to then rural standards comprising approximately 200mm thickness of natural rubble basecourse with a thin bituminous spray seal.



**Figure 1 Trial Location - Eyre Peninsular, South Australia**

With the growth of road freight transport between Adelaide and Perth due to more triple axles (8.2 tonne each) and single tyres particularly on road trains, pavement loading has increased beyond original design expectation. The current traffic loading being  $2.5 \times 10^6$  ESA.

In addition to increased traffic loading, the pavement width is insufficient to meet current National Highway Standards of road safety, particularly in consideration of increased numbers of heavy transport and recreational vehicles.

## PAVEMENT MATERIAL RECYCLING

With widening of old pavements, the wider pavement width encroaches onto the old shoulder which usually consists of materials unsuitable for pavement layers. Generally they are typified by higher plasticity, poor grading and soft stone. Therefore construction of widening requires removal of existing shoulder and replacement with a better material.

However, on the Eyre Peninsular (as is the case for a large part of rural South Australia) there is a dearth of traditionally acceptable good quality natural materials available and poorer quality materials must be used. In addition environmental and heritage pressures are such that opening new borrow areas is undesirable and emphasis has been placed upon insitu recycling of existing pavement materials.

Recycling of pavement materials is achieved most economically by insitu stabilisation in which the existing pavement is pulverised and material improved by the addition of a variety of binders eg Portland Cement, Blended Cement, Lime - Flyash combinations and in the eastern states of Australia, Lime - Slag combinations. However no application of liquid stabilisation products has been undertaken.

In the insitu stabilisation, approximately half the cost of the total process is taken up in the cost of the binder and therefore any saving in this area is significant on long sections as is the case on the Eyre Highway.

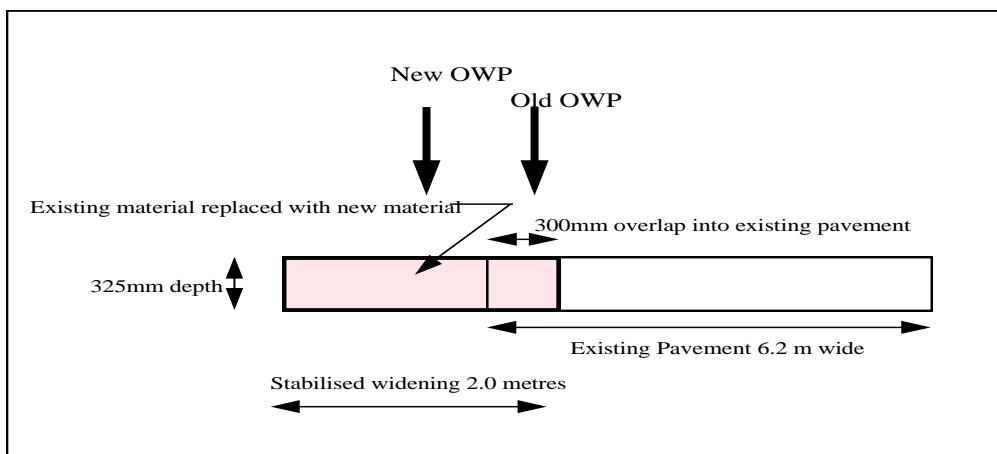
In the knowledge of potential savings for other projects, and a committed approach to the Department of Transport from Pavebond P/L, Australian suppliers of Roadbond EN-1, a quantitative evaluation of the product on a section of the Eyre Highway was established near the township of Kimba.

## SCOPE OF THE REHABILITATION PROJECT

The Kimba project comprised widening both sides of the Eyre Highway to provide an increased seal width from 6.2 metres to 7.2 metres. The width of stabilisation each side was 2.0 metres over a length of 34 kms and 325mm deep. This is illustrated in Figure 2.

The existing shoulder on each side of the old pavement was removed to a depth of 300 mm and replace with a natural gravel of poor quality. This material was placed, compacted and trafficked for a period of time prior to stabilisation commencing.

In addition to widening, within the 34 km length, several sections of pavement were identified as requiring full width stabilisation due to surface roughness or excessive rutting. The trial site was therefore selected in one of these areas at Maintenance Marker.798 kms which is just east of the township of Kimba.



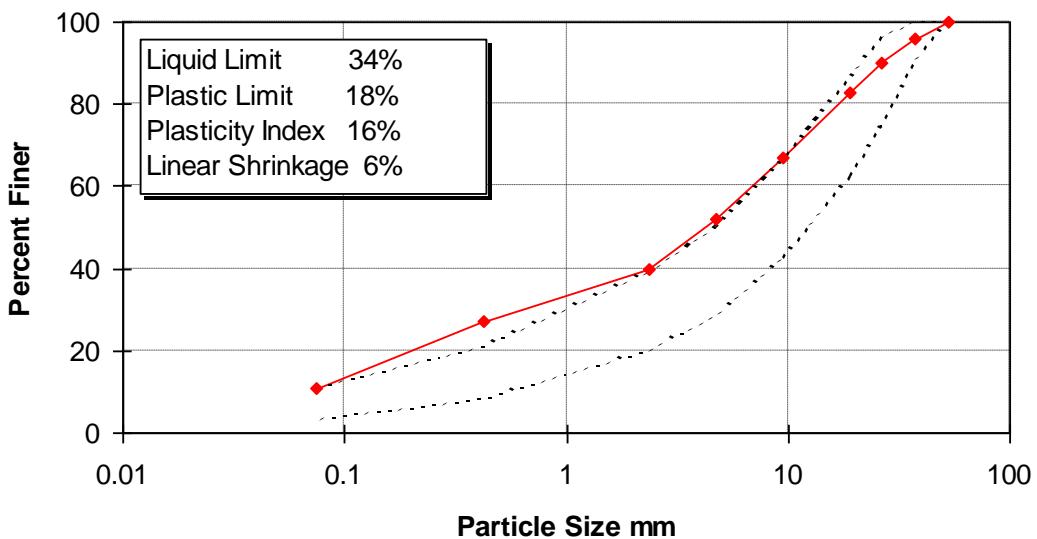
**Figure 2 General Arrangement of Pavement Widening**

The trial site itself is located on relatively flat topography with an expectably uniform subgrade profile. As such reasonable comparisons of consecutive trial sections within the site can be made. In addition, the area is well drained and the influence of any localised stormwater effects are unlikely.

## MATERIAL PROPERTIES

The material used in the widening was a natural occurring limestone calcrete rubble raised from an adjacent borrow pit (Moseley's Pit). The material was raised by bulldozer ripping and crushing to a maximum size of approximately 40 mm to a standard Department Specification PM 21 grading. However the plasticity characteristics did not meet the same specification requirements and therefore special selection of an appropriate stabilisation binder was necessary.

Figure 3 below illustrates the standard classification properties of the material.



**Figure 3 Natural Material Classification Properties**

The maximum dry density and optimum moisture content (modified compaction) were 1.88 t/m<sup>3</sup> and 11% respectively.

In consideration of the high plasticity a binder comprising a 1:3 combination (by mass) of quick lime (CaO) and flyash respectively and spread at a rate of 3% (by mass of compacted pavement material) was selected to improve material stiffness and reduce moisture sensitivity (ie loss of strength due to seasonal wetting).

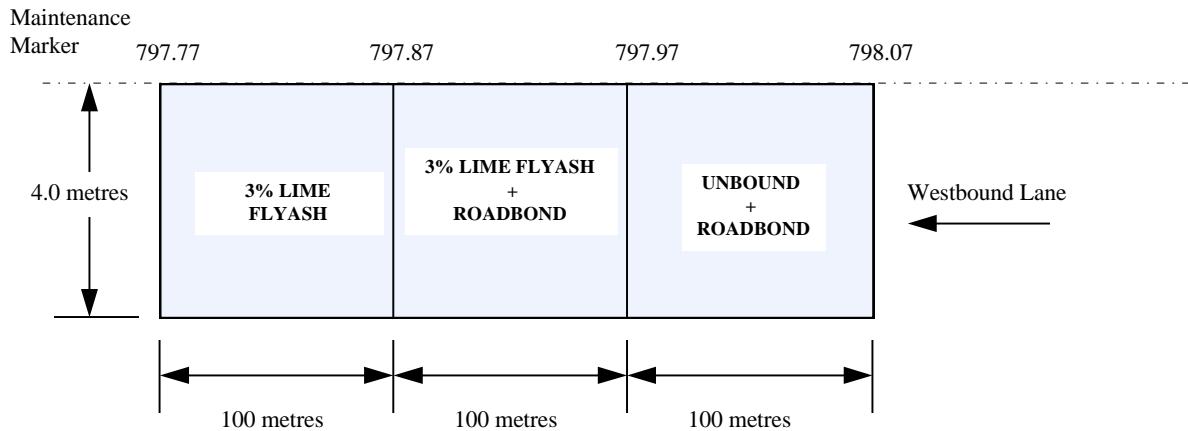
Flyash was transported by road from the Northern Power Station at Port Augusta some 150kms away and the lime from Adelaide Brighton Cement P/L plant at Angaston near Adelaide some 500 kms away from the site.

## TRIAL SECTION CONSTRUCTION

Three 100 metre full lane width (4 metres) trial sections were stabilised in September 1995 between Maintenance Markers ( MM) 797.77 and 798.07 kms as illustrated in Figure 4. The binders used were :

- Roadbond EN-1 at the recommended dosage of 1 litre per 6.5 cubic metres of compacted road material
- Roadbond EN-1 at 1 litre per 6.5 cubic metres of compacted road material plus 3% by mass Lime-Flyash (1:3)
- 3% Lime-Flyash (1:3) by compacted mass of road material.

In addition a 100 metre section of the original 30 year old pavement (inner wheel path only) between MM 799.2 to 799.3 was added to the monitoring programme in August 1996.



**Figure 4 Trial Sections General Layout**

The three stabilised sections were mixed using a CMI RS-500 pavement recycler mixing to a depth of 325mm. Roadbond EN-1 was added to the compaction water at a dilution rate of 128:1 at a controlled rate of 6.5 l/m<sup>2</sup>. This flow rate is automatically controlled by the RS-500 in terms of flow and ground speed.

The insitu moisture content of the pavement was approximately 2% below optimum which was due to an abnormally wet winter (stabilisation of the main works was suspended during July and August).

The quick lime and flyash binders were spread individually as a powder at a rate of 6 kgms/m<sup>2</sup> for lime and 12 kgms/m<sup>2</sup> for flyash, with a purpose built spreader capable of evenly controlling the spread rates (kgms/m<sup>2</sup>).



**Figure 5 Spreading Dry Binders (Flyash & Lime)**



**Figure 6 Mixing Roadbond EN-1 & Water for Compaction**



**Figure 7 Heavy Compaction with 17 tonne Vibrating Padfoot Roller**



**Figure 8 Secondary Compaction with Smooth Drum & Rubber Tyred Rollers**

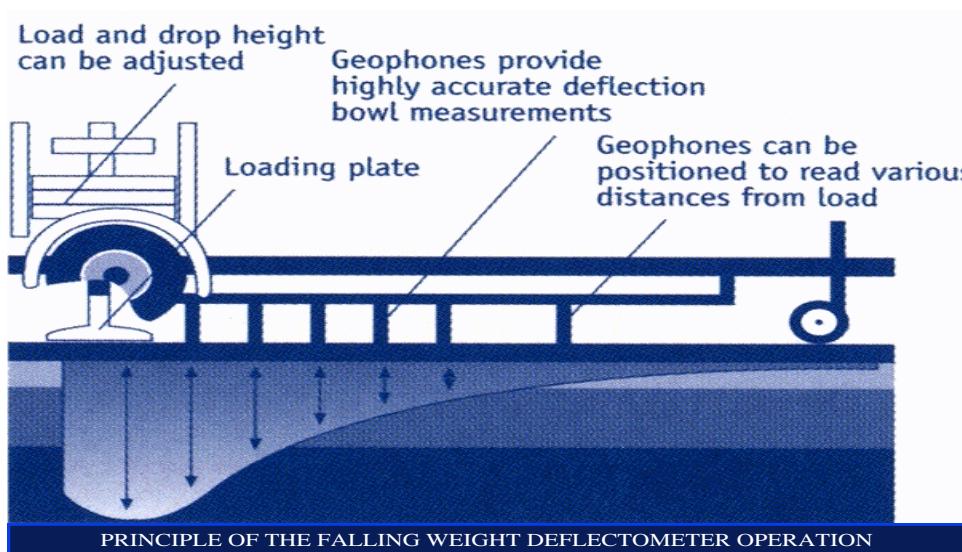
## POST CONSTRUCTION EVALUATION

Post construction evaluations have been undertaken using the Dynatest Falling Weight Deflectometer to measure pavement deflection bowls (Figure 9).



**Figure 9 Dynatest Falling Weight Deflectometer**

In addition, back analysis of deflection bowls using proprietary software ELMOD was undertaken to determine layer stiffness (Resilient Modulus)



**Figure 10 "Deflection Bowl" Analysis**

The induced loading on the pavement by the FWD was 560 kPa which equates to an Australian equivalent standard axle being 8.2 tonnes over an axle with dual wheels each side.

Deflection measurements were taken in the outer wheel path at two metre intervals over the length of each section (ie. fifty data points per section).

A series of four FWD evaluations were undertaken ie

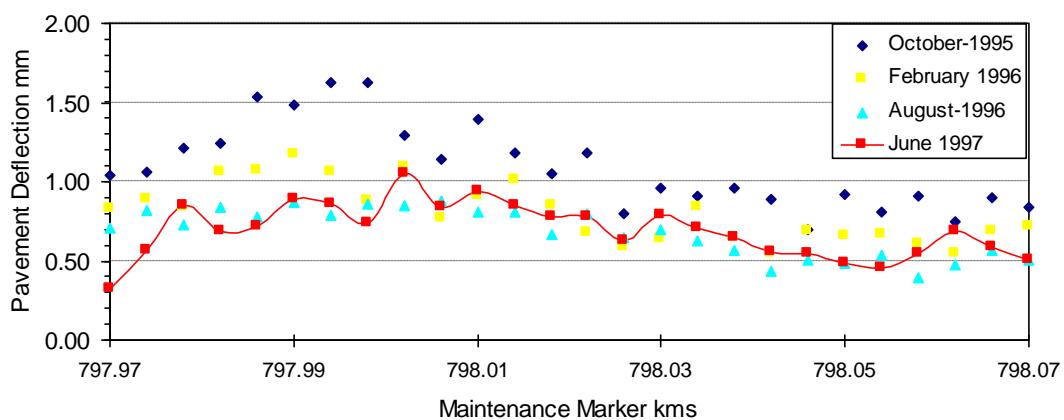
- 17<sup>th</sup> October 1995, one month after construction
- 1<sup>st</sup> February 1996 to evaluate any seasonal drying effects
- 27<sup>th</sup> August 1996 to evaluate one full season
- 25<sup>th</sup> June 1997 to evaluate continued performance

## UNBOUND PAVEMENT SECTIONS

### Pavement Deflection

The maximum deflection characteristics of a granular pavement indicate the adequacy to protect the subgrade from rutting in wheel paths. Using the Austroads Guide to the Structural Design of Road Pavements<sup>[1]</sup>, the maximum tolerable deflection for this pavement to ensure a 20 year design interval is 1.0mm.

Figure 11 shows the changes in pavement deflection over the twelve month period for the unbound section with Roadbond EN-1:



**Figure 11 Change in Pavement Deflection**

It is apparent that in the early life of the pavement the deflections were higher than tolerable over most of the section. This suggests that the pavement was structurally weak, probably due to high post construction moisture contents and no opportunity for the Roadbond EN-1 to dry out and effect.

Although improved in February due to seasonal drying, deflections remained near tolerable. However after twelve months deflections all are lower than tolerable ensuring design life is achieved. Moreover, the latest values indicate that **there has been no increase in deflection (ie pavement deterioration) with time over the past two years.**

The mean values for each measuring period are:

17 <sup>th</sup> October 1995	1.09mm
1 <sup>st</sup> February 1996	0.80mm
27 <sup>th</sup> August 1996	0.68mm
25 <sup>th</sup> June 1997	0.67mm

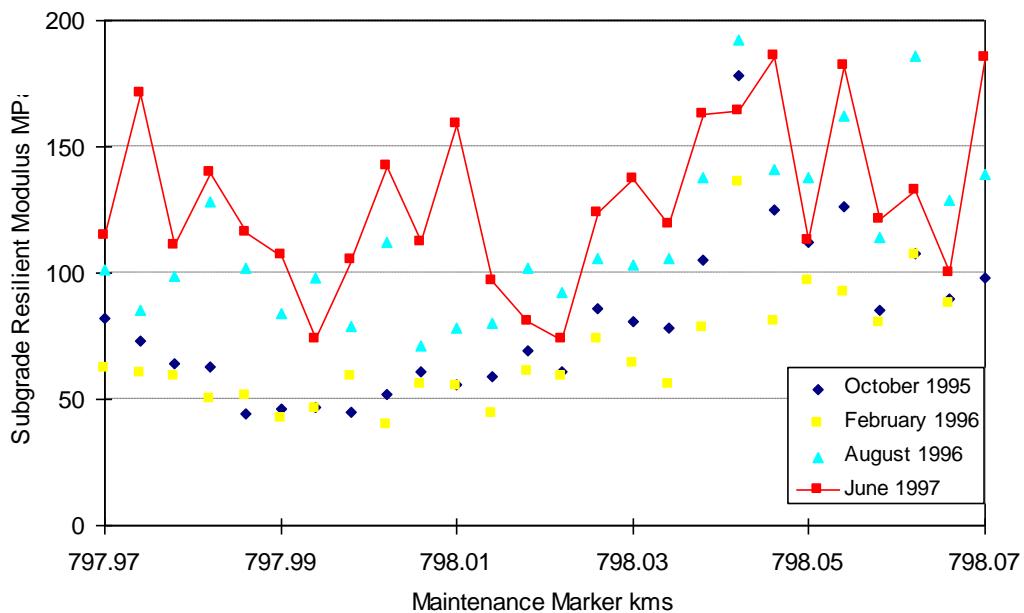
### Seasonal Effects of Subgrade Stiffness

To remove any influence seasonal change in the subgrade may have such that the absolute effect of Roadbond EN-1 can be assessed, FWD surveys were undertaken at various times of the year. The FWD analysis not only determines the stiffness of pavement layers but also includes the subgrade stiffness to complete the structural model.

Stiffness is expressed in terms of *Resilient Modulus* which relates the dynamic vertical displacement of the pavement to the imposed dynamic traffic load. Viz:

$$\text{Resilient Modulus} = \frac{\text{Vertical Resilient Stress from traffic load}}{\text{Induced Vertical Resilient Strain}}$$

The changes over the length of the trial section is shown in Figure 12 below.



**Figure 12 Seasonal Change in Subgrade Modulus**

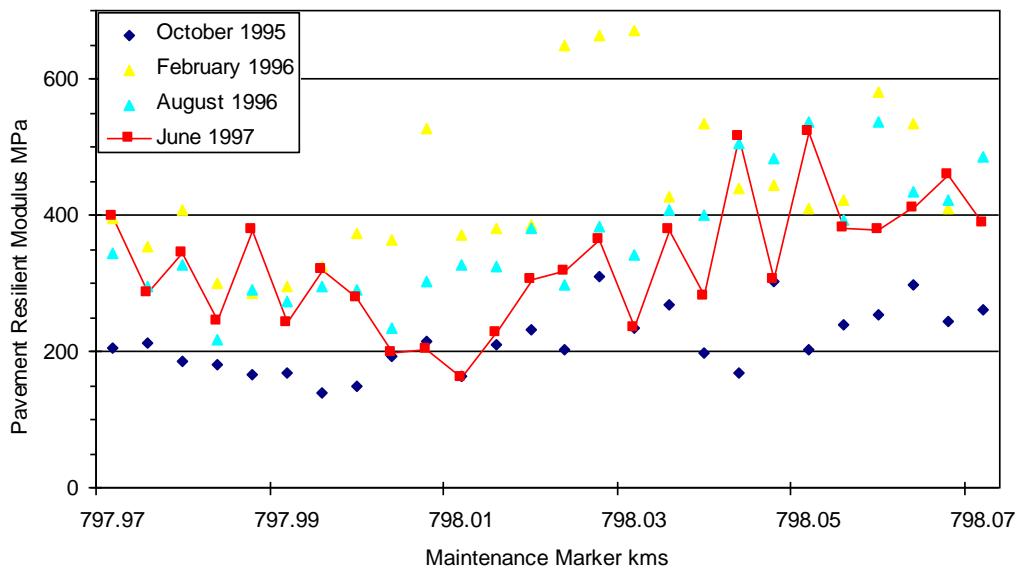
It is noted that the subgrade stiffness in February remained essentially the same as October indicating little seasonal drying of the subgrade probably due to the residual effects of construction moisture contents in the pavement. However, over the twelve month period some drying and increase in subgrade stiffness has been recorded.

Over the two year monitoring period the average subgrade stiffness has increased (doubled) even though above average rainfall was experienced in the winters of 1995 and 1996. This is considered attributable to the inhibiting of moisture through the pavement from three principal factors viz:

- Reshaping the pavement after stabilisation has improved surface runoff and removed any ponding.
- Application of a new primer seal and later final seal to provide a waterproof surfacing.
- Waterproofing properties of Roadbond EN-1 in the pavement material.

### Pavement Stiffness

In addition to identifying changes in the subgrade stiffness, the ELMOD analysis isolates the absolute material stiffness changes within the pavement. These are shown below:



**Figure 13 Change in Pavement Resilient Modulus**

Whilst the above indicates the seasonal increase in pavement stiffness between October and February it is also noted that this stiffness has essentially been maintained over the two year monitoring period.

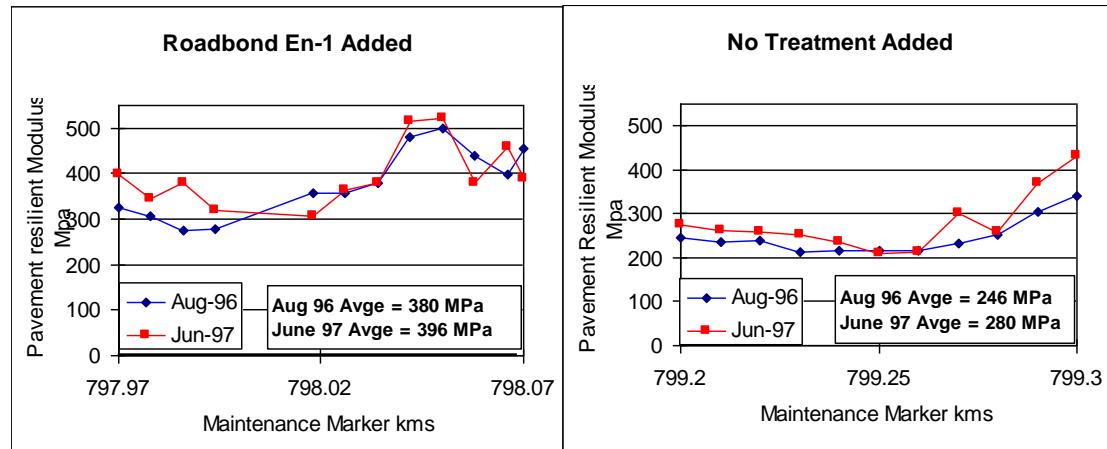
The averages for each monitoring event are shown in Table 1.:

**Table 1 Average Pavement Layer Stiffnesses**

Date	Pavement Stiffness MPa	Subgrade Stiffness
October 1995	215	81
February 1996	440	70
August 1996	380	115
June 1997	396	130

### Comparison with untreated section

In August 1996 an untreated section of pavement between MM799.2 and 799.3 was established as a benchmark to compare the Roadbond EN-1 performance. At this stage the only comparison that can be made is the August 1996 and June 1997 data as shown below:

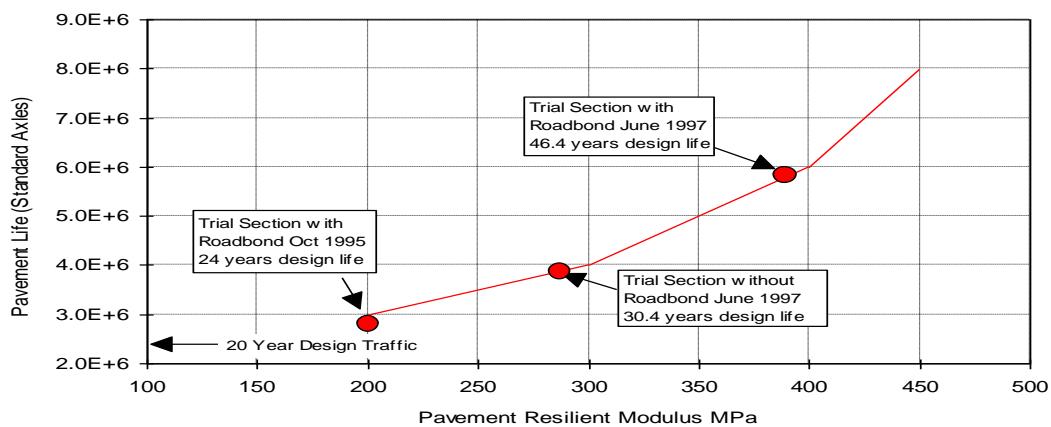


**Figure 14 Resilient Modulus Comparison with & without Roadbond EN-1**

It is apparent that this comparison indicates a significant increase in resilient modulus with the addition of Roadbond EN-1. Comparative mean resilient moduli are shown in Figure 14 indicating a conservative increase of 40%.

### Impact on pavement life & thickness design

As a measure of pavement improvement between October 1995 and June 1997, the following indicates the magnitude of expected pavement life due to increased pavement material stiffness.



**Figure 15 Change in Pavement Life (ESAs) with Improved Resilient Modulus**

The above suggests that the structural design life of the pavement is **increased by 100%** viz 20 years to 40 years. In practical terms the old pavement is 30 years old therefore it would be more practical to reduce the pavement thickness from 325 mm to 250 mm. This implies a material saving of 600 cubic metres per full width kilometre which approximates to a saving of \$18 000 per kilometre. However this is offset by the cost of Roadbond being approximately \$7500 per kilometre.

### **Summary of performance in unbound pavement**

The degree of improvement measured in the field with the falling weight deflectometer and associated analytical software shows a significant improvement in properties pertinent to mechanistic pavement design. It is also pointed out that it has not been possible to replicate these results in the laboratory by performing repeated load triaxial tests.

However, the degree of improvement concluded in the above must be considered in the context that the material was well suited to Roadbond treatment (high plasticity) and performing in a dry environment (250 mm annual rainfall area).

As a result of the trial Roadbond has been specified in a number of stabilisation projects over the past two years, particularly where high plasticity pavement materials are encountered.

## LIME FLYASH STABILISED PAVEMENT

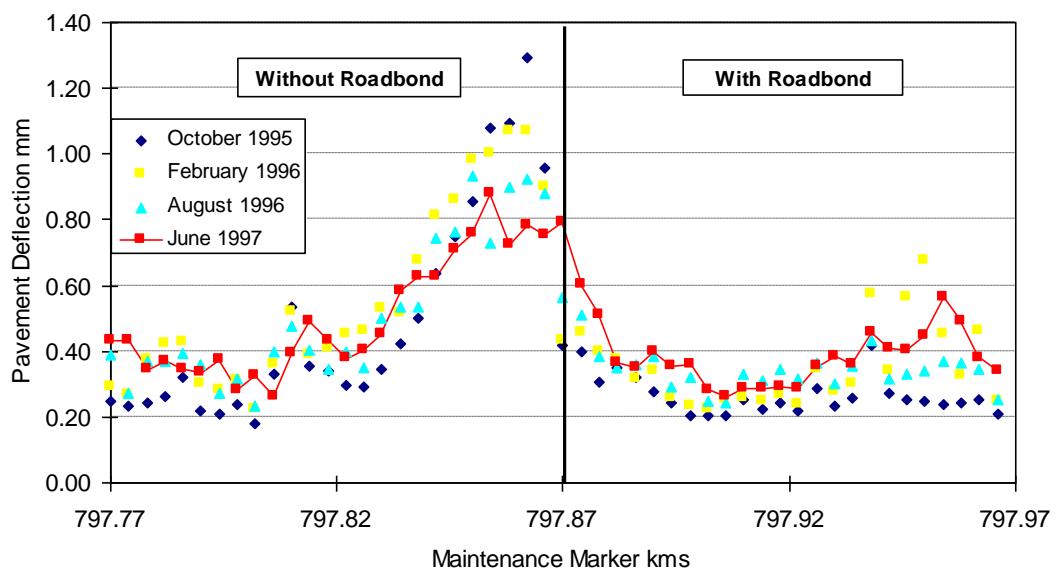
For the original project, lime was selected in view of the high plasticity of the pavement material. However on its own it is unlikely to improve the stiffness of the material sufficiently and therefore cementation by the addition of flyash was adopted.

3% binder in the form of quick lime ( $\text{CaO}$ ) and flyash in the proportions of 1:3 was used with and without the addition of Roadbond EN-1.

Identical to the unbound pavement section, FWD testing and analyses were undertaken at the same periods to determine structural characteristics of both the subgrade and the pavement layer.

### Pavement Deflection

The deflection characteristics for the two sections are shown below:



**Figure 16 Comparisons of Deflection with and without Roadbond EN-1**

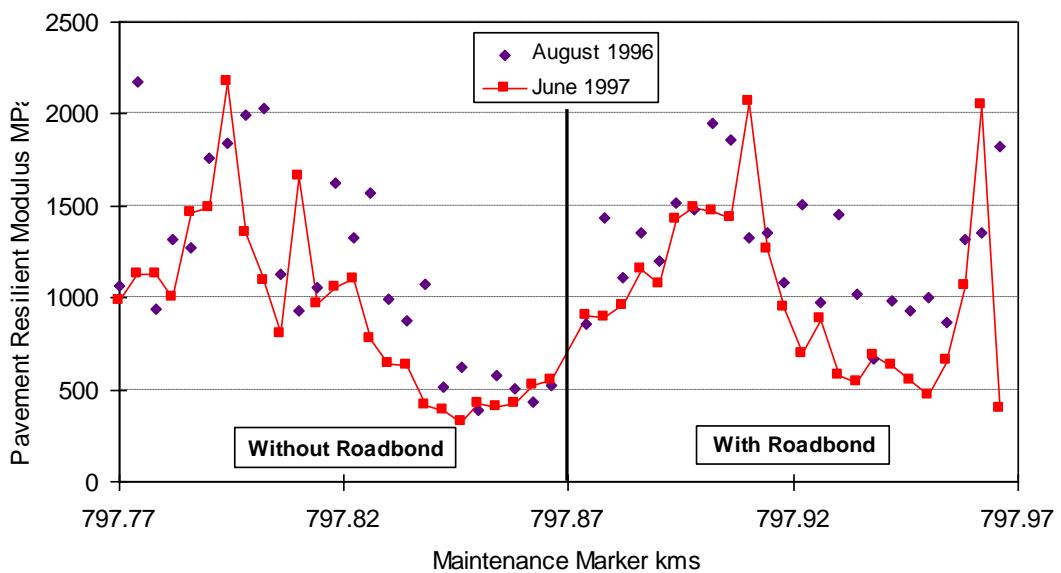
There is no known reason for the high deflection section between 797.83 and 797.87 except to say that it could be due to a shortage of binder. This is considered possible as the operator on the spreader controls spread rate by reading weight loss over distance. As a consequence, knowing how much binder needs to be added in the section, the weight loss is either increased or decreased at the end of the section. Alternatively it is possible that with such a low spread rate for the lime that it is difficult to control accurately and therefore if low, the reaction with flyash is not as strong.

Ignoring the high deflection data at the junction between the two sections, there is essentially no difference in the magnitude of absolute deflection. Furthermore, the variation between measuring stations are less pronounced than the granular section due to the cementation induced by the lime flyash. However, it appears that a much more uniform pavement quality has been produced with the addition of Roadbond EN-1 suggesting that it may have beneficial properties as a dispersant.

### Pavement stiffness

As shown in Figure 17, analysis of the pavement material itself using ELMOD reveals a drop in stiffness in areas where the stiffness is below 1000 MPa. In other areas there has been no change.

The areas of low stiffness occur in areas of high deflection and it is considered that the reduction in stiffness is probably due to tensile fatigue cracking on a micro scale. As a result, the pavement is behaving as a stiffened granular pavement rather than bound or stabilised.



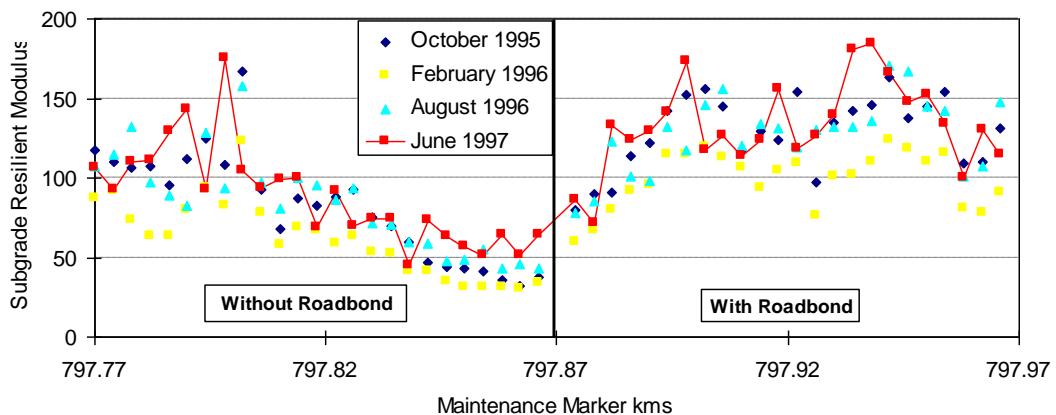
**Figure 17 Comparison of Resilient Modulus for Lime-Flyash Stabilised Pavement with and without Roadbond EN-1**

Very little can be drawn from any increase in stiffness due to the addition of Roadbond because of the wide variation within each section ie. half of each section has a stiffness less than 1000 MPa and the other half above 1000 MPa. Therefore a homogeneous section for both cases has not been produced and consequential statistical inference cannot be drawn.

The areas of low stiffness apparent in both sections suggest less binder (probably lime due to the difficulty in controlling such a low spread rate) was incorporated.

### Seasonal Effects on Subgrade stiffness

The comparative changes in subgrade modulus shown in Figure 18 indicate the stiffness over the Roadbond/Lime/Flyash section to be significantly stiffer than the Lime/Flyash section without Roadbond. This condition was noted in the October 1995 data and has been maintained with very little change over the past two years.



**Figure 18 Seasonal Change in Subgrade Resilient Modulus  
 Lime - Flyash Stabilised Pavement**

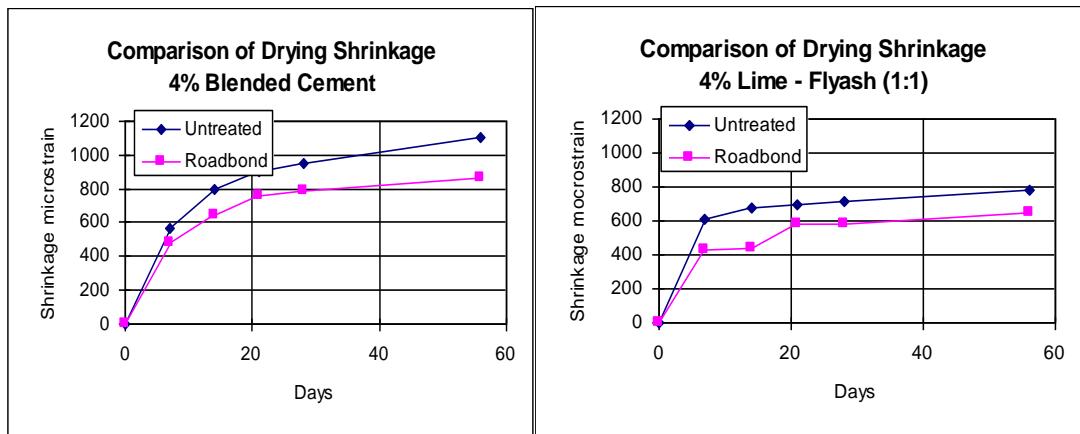
Whilst noted that little difference in pavement stiffness could be drawn from Figure 17, if both subgrades were the same ie low, then a more notable increase in pavement stiffness would be indicated for the Roadbond treated section.

However little conclusions are drawn from these two trial sections

### Drying Shrinkage

One of the major problems with insitu stabilisation is in the development transverse cracking of the pavement due to drying shrinkage effects of the binder. To overcome this, the Department of Transport has adopted lime-flyash as a slower setting binder with the expectation that shrinkage will be reduced. However, as a slow set binder it has the disadvantage that the surface may not be cementitious enough to protect the surface from ravelling and developing pot holes prior to bituminous sealing.

Tests undertaken by the University of South Australia on behalf of the Department have supported the potential benefits of adopting lime-flyash binder in preference to Portland Cement. In addition, in conjunction with both binders, the inclusion of Roadbond EN-1 has been evaluated and indicates further shrinkage reductions as illustrated in Figure 19.



**Figure 19 Comparisons of Drying Shrinkage**

#### Lime Flyash Stabilised Pavement Conclusions:

It is apparent that Roadbond EN-1 may have produced a more uniform pavement stiffness however no gain in strength is concluded.

Further evaluation and use of the product in conjunction with cement and lime-flyash stabilisation will be undertaken to quantify reductions in drying shrinkage (and therefore consequential pavement cracking) and any potential for reduction in the amount of binder required.

Over the past two years, Roadbond EN-1 has been used in stabilisation projects where other cementitious binders have been used. Their use is considered in high plasticity material where it is expected that the Roadbond EN-1 will stabilise the clay minerals fractions thus enabling the cementitious binder to have maximum dispersion and strengthening effect.

R. C. ANDREWS

SUPERVISING MATERIALS ENGINEER

August 15, 1997

## ABOUT THE AUTHOR



### Robert C. Andrews

M. Eng Sc ( Geotechnical) NSW  
B. Tech (Civil Eng) Adelaide  
Th.A, (Theology) Melbourne  
C.P. Eng, M.I E Aust

Bob Andrews graduated in Civil Engineering in 1969 at the University of Adelaide and was awarded Master of Engineering Science in geotechnical engineering from the University of New South Wales in 1981. He is currently the Supervising Materials Engineer with the Department of Transport in South Australia.

His professional career has been associated with geotechnical investigation and design of large engineering works associated with water supply, waste water treatment, groundwater salinity, pavement materials and pavement design, material specifications, statistical quality control testing and management of National Association of Testing Authorities (NATA) registered laboratories.

Since 1984, Bob has been involved in materials research and pavement design specialising in the use of marginal materials, stabilised materials, recycled and waste materials, application of stabilisation binders including lime, flyash, slag cement and chemicals, material performance characteristics. Design of low cost sealed pavements, heavy duty concrete pavements, and improved performance of unsealed pavements.

Bob has been served on several Austroads technical and national standards committees including compaction control testing, statistical quality control, road rehabilitation by recycling, accelerated loading of insitu deep lift stabilised pavements, development of repeated load test apparatus and protocols, application of performance based material specifications and heavy duty industrial pavements.

In 1994 Bob was responsible for the Department of Transport being awarded a South Australian Engineering Excellence Award in the Environment category dealing with Road Recycling on the National Highway Network. In 1997, at a personal level, his efforts on a National Road Recycling Project were recognised by the Department of Transport by awarding him a Certificate of Merit for Excellence in Innovation.

## APPENDIX 1

### Falling Weight Deflectometer Deflection Analyses

**RN 2000 EYRE HIGHWAY, SOUTH AUSTRALIA**  
**PAVEMENT REHABILITATION & WIDENING**  
**ROADBOND EN-1 AND LIME FLYASH STABILISATION**



**RN 2000 Eyre Highway Trial Sections**  
**Oct-95**

Chainage	Standard Load Kpa	D0	D200	D300	D450 millimetres	D600	D900	D1500	Maximum Deflection	Curvature Function	Qld T SG CBR
S798070	560	0.709	0.465	0.321	0.244	0.181	0.121	0.051	0.709	0.244	8.5
S798068	560	1.049	0.602	0.392	0.262	0.177	0.106	0.041	1.049	0.447	9.7
S798066	560	0.781	0.441	0.300	0.200	0.140	0.090	0.039	0.781	0.340	11.4
S798064	560	0.992	0.530	0.361	0.237	0.162	0.100	0.047	0.992	0.462	10.2
S798062	560	1.135	0.622	0.395	0.255	0.176	0.107	0.053	1.135	0.513	9.6
S798060	560	1.172	0.689	0.457	0.308	0.211	0.123	0.052	1.172	0.483	8.3
S798058	560	0.955	0.609	0.387	0.256	0.176	0.107	0.046	0.955	0.346	9.6
S798056	560	0.963	0.532	0.338	0.221	0.157	0.098	0.046	0.963	0.431	10.4
S798054	560	0.862	0.479	0.313	0.212	0.146	0.091	0.042	0.862	0.383	11.3
S798052	560	0.960	0.504	0.330	0.219	0.152	0.092	0.042	0.960	0.456	11.1
S798050	560	1.044	0.573	0.370	0.241	0.164	0.098	0.043	1.044	0.471	10.4
S798048	560	1.040	0.573	0.360	0.230	0.157	0.094	0.043	1.040	0.467	10.9
S798046	560	1.006	0.494	0.298	0.190	0.130	0.080	0.039	1.006	0.512	12.8
S798044	560	0.846	0.421	0.260	0.172	0.115	0.073	0.034	0.846	0.425	14.0
S798042	560	0.890	0.462	0.286	0.189	0.130	0.076	0.038	0.890	0.428	13.5
S798040	560	0.969	0.543	0.338	0.217	0.148	0.088	0.040	0.969	0.426	11.6
S798038	560	0.999	0.577	0.362	0.232	0.158	0.093	0.040	0.999	0.422	11.0
S798036	560	1.015	0.573	0.378	0.240	0.166	0.101	0.043	1.015	0.442	10.1
S798034	560	1.063	0.611	0.399	0.264	0.181	0.106	0.044	1.063	0.452	9.7
S798032	560	1.165	0.627	0.404	0.258	0.171	0.100	0.043	1.165	0.538	10.2
S798030	560	1.077	0.663	0.424	0.272	0.184	0.104	0.044	1.077	0.414	9.8
S798028	560	1.135	0.695	0.451	0.293	0.199	0.108	0.048	1.135	0.440	9.5
S798026	560	1.195	0.700	0.445	0.292	0.194	0.108	0.043	1.195	0.495	9.5
S798024	560	1.151	0.686	0.453	0.298	0.200	0.114	0.043	1.151	0.465	9.0
S798022	560	1.190	0.678	0.448	0.299	0.203	0.114	0.045	1.190	0.512	9.0
S798020	560	1.141	0.644	0.427	0.279	0.187	0.105	0.045	1.141	0.497	9.8
S798018	560	0.940	0.612	0.406	0.276	0.190	0.111	0.047	0.940	0.328	9.2
S798016	560	1.049	0.632	0.438	0.304	0.208	0.121	0.051	1.049	0.417	8.5
S798014	560	1.139	0.661	0.443	0.296	0.200	0.114	0.050	1.139	0.478	9.0
S798012	560	1.246	0.739	0.511	0.338	0.225	0.125	0.053	1.246	0.507	8.2
S798010	560	1.172	0.695	0.458	0.297	0.196	0.110	0.049	1.172	0.477	9.3
S798008	560	1.291	0.720	0.480	0.314	0.216	0.126	0.049	1.291	0.571	8.1
S798006	560	1.200	0.658	0.425	0.282	0.195	0.115	0.044	1.200	0.542	8.9
S798004	560	1.270	0.736	0.478	0.315	0.215	0.122	0.042	1.270	0.534	8.4
S798002	560	1.243	0.722	0.459	0.299	0.209	0.117	0.044	1.243	0.521	8.8
S798000	560	1.245	0.670	0.451	0.305	0.213	0.128	0.050	1.245	0.575	8.0
S797998	560	1.180	0.670	0.438	0.282	0.190	0.108	0.043	1.180	0.510	9.5
S797996	560	1.151	0.752	0.481	0.310	0.208	0.115	0.049	1.151	0.399	8.9
S797994	560	1.066	0.626	0.401	0.263	0.179	0.109	0.050	1.066	0.440	9.4
S797992	560	1.176	0.634	0.424	0.278	0.188	0.110	0.049	1.176	0.542	9.3
S797990	560	1.040	0.553	0.354	0.227	0.155	0.096	0.047	1.040	0.487	10.7
S797988	560	0.950	0.529	0.350	0.234	0.159	0.105	0.050	0.950	0.421	9.8
S797986	560	1.150	0.570	0.376	0.251	0.168	0.101	0.049	1.150	0.580	10.1
S797984	560	1.048	0.549	0.347	0.220	0.149	0.090	0.043	1.048	0.499	11.4
S797982	560	1.017	0.563	0.343	0.215	0.143	0.083	0.038	1.017	0.454	12.3
S797980	560	0.909	0.474	0.290	0.184	0.125	0.077	0.038	0.909	0.435	13.3
S797978	560	1.037	0.586	0.358	0.233	0.162	0.098	0.043	1.037	0.451	10.4
S797976	560	1.121	0.583	0.366	0.234	0.159	0.090	0.037	1.121	0.538	11.4

**RN 2000 EYRE HIGHWAY, SOUTH AUSTRALIA**  
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S797974	560	1.002	0.527	0.328	0.204	0.135	0.075	0.032	1.002	0.475	13.7
S797972	560	0.856	0.486	0.266	0.168	0.115	0.072	0.030	0.856	0.370	14.2
S797970	560	0.558	0.385	0.279	0.199	0.143	0.093	0.041	0.558	0.173	11.0
S797968	560	0.368	0.297	0.233	0.172	0.133	0.094	0.046	0.368	0.071	10.9
S797966	560	0.343	0.264	0.230	0.191	0.156	0.109	0.055	0.343	0.079	9.4
S797964	560	0.742	0.495	0.373	0.265	0.195	0.124	0.059	0.742	0.247	8.3
S797962	560	0.869	0.496	0.318	0.225	0.166	0.114	0.064	0.869	0.373	9.0
S797960	560	0.891	0.495	0.331	0.245	0.188	0.134	0.073	0.891	0.396	7.6
S797958	560	0.663	0.416	0.295	0.229	0.177	0.128	0.071	0.663	0.247	8.0
S797956	560	0.513	0.341	0.255	0.197	0.157	0.114	0.061	0.513	0.172	9.0
S797954	560	0.465	0.298	0.232	0.181	0.137	0.094	0.049	0.465	0.167	10.9
S797952	560	0.372	0.268	0.210	0.163	0.127	0.090	0.046	0.372	0.104	11.4
S797950	560	0.287	0.226	0.189	0.156	0.124	0.088	0.048	0.287	0.061	11.6
S797948	560	0.255	0.211	0.175	0.145	0.118	0.086	0.045	0.255	0.044	11.9
S797946	560	0.217	0.179	0.157	0.135	0.115	0.088	0.045	0.217	0.038	11.6
S797944	560	0.242	0.196	0.172	0.142	0.117	0.087	0.041	0.242	0.046	11.8
S797942	560	0.245	0.189	0.160	0.136	0.109	0.077	0.039	0.245	0.056	13.3
S797940	560	0.230	0.192	0.170	0.143	0.115	0.087	0.045	0.230	0.038	11.8
S797938	560	0.273	0.227	0.194	0.160	0.130	0.095	0.049	0.273	0.046	10.8
S797936	560	0.246	0.214	0.185	0.156	0.127	0.090	0.046	0.246	0.032	11.4
S797934	560	0.245	0.212	0.183	0.155	0.129	0.093	0.047	0.245	0.033	11.0
S797932	560	0.250	0.202	0.174	0.142	0.114	0.081	0.038	0.250	0.048	12.6
S797930	560	0.251	0.213	0.187	0.157	0.128	0.093	0.046	0.251	0.038	11.0
S797928	560	0.275	0.209	0.180	0.151	0.123	0.088	0.046	0.275	0.066	11.6
S797926	560	0.263	0.225	0.195	0.164	0.136	0.099	0.051	0.263	0.038	10.3
S797924	560	0.282	0.234	0.200	0.169	0.139	0.102	0.057	0.282	0.048	10.0
S797922	560	0.303	0.247	0.215	0.180	0.149	0.107	0.050	0.303	0.056	9.6
S797920	560	0.263	0.213	0.188	0.155	0.125	0.089	0.043	0.263	0.050	11.5
S797918	560	0.286	0.237	0.203	0.174	0.139	0.100	0.049	0.286	0.049	10.2
S797916	560	0.266	0.233	0.208	0.172	0.145	0.105	0.048	0.266	0.033	9.8
S797914	560	0.256	0.220	0.193	0.163	0.136	0.102	0.048	0.256	0.036	10.0
S797912	560	0.254	0.224	0.197	0.169	0.140	0.098	0.043	0.254	0.030	10.4
S797910	560	0.264	0.219	0.191	0.156	0.131	0.093	0.041	0.264	0.045	11.0
S797908	560	0.251	0.226	0.191	0.161	0.129	0.087	0.033	0.251	0.025	11.8
S797906	560	0.270	0.225	0.192	0.157	0.128	0.090	0.040	0.270	0.045	11.4
S797904	560	0.294	0.241	0.201	0.164	0.130	0.085	0.032	0.294	0.053	12.0
S797902	560	0.242	0.189	0.151	0.115	0.088	0.054	0.021	0.242	0.053	19.0
S797900	560	0.253	0.216	0.185	0.151	0.122	0.084	0.035	0.253	0.037	12.2
S797898	560	0.276	0.232	0.201	0.166	0.136	0.096	0.039	0.276	0.044	10.7
S797896	560	0.272	0.238	0.204	0.164	0.129	0.088	0.038	0.272	0.034	11.6
S797894	560	0.259	0.223	0.187	0.147	0.115	0.077	0.030	0.259	0.036	13.3
S797892	560	0.286	0.255	0.220	0.184	0.150	0.105	0.043	0.286	0.031	9.8
S797890	560	0.299	0.238	0.203	0.162	0.130	0.085	0.032	0.299	0.061	12.0
S797888	560	0.270	0.222	0.186	0.146	0.113	0.072	0.026	0.270	0.048	14.2
S797886	560	0.300	0.268	0.230	0.187	0.150	0.103	0.042	0.300	0.032	9.9
S797884	560	0.379	0.289	0.234	0.182	0.137	0.083	0.029	0.379	0.090	12.3
S797882	560	0.375	0.313	0.266	0.212	0.168	0.113	0.045	0.375	0.062	9.1
S797880	560	0.341	0.279	0.237	0.193	0.151	0.102	0.041	0.341	0.062	10.0
S797878	560	0.346	0.291	0.247	0.200	0.160	0.110	0.045	0.346	0.055	9.3
S797876	560	0.374	0.316	0.268	0.221	0.177	0.114	0.042	0.374	0.058	9.0
S797874	560	0.423	0.364	0.312	0.263	0.211	0.150	0.067	0.423	0.059	6.8
S797872	560	0.481	0.405	0.358	0.300	0.246	0.171	0.064	0.481	0.076	6.0
S797870	560	0.360	0.310	0.263	0.215	0.174	0.116	0.045	0.360	0.050	8.8
S797868	560	0.631	0.471	0.386	0.305	0.229	0.142	0.044	0.631	0.160	7.2
S797866	560	1.149	0.794	0.625	0.480	0.360	0.215	0.075	1.149	0.355	4.8
S797864	560	1.015	0.793	0.649	0.514	0.400	0.261	0.101	1.015	0.222	3.9

**RN 2000 EYRE HIGHWAY, SOUTH AUSTRALIA**  
**PAVEMENT REHABILITATION & WIDENING**  
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S797862	560	1.048	0.730	0.538	0.388	0.286	0.179	0.076	1.048	0.318	5.7
S797860	560	1.295	0.942	0.733	0.557	0.419	0.260	0.089	1.295	0.353	3.9
S797858	560	1.031	0.706	0.552	0.403	0.294	0.165	0.051	1.031	0.325	6.2
S797856	560	0.950	0.639	0.487	0.353	0.246	0.137	0.046	0.950	0.311	7.5
S797854	560	1.114	0.706	0.514	0.373	0.256	0.139	0.050	1.114	0.408	7.4
S797852	560	1.079	0.720	0.527	0.385	0.268	0.153	0.056	1.079	0.359	6.7
S797850	560	1.287	0.809	0.578	0.412	0.288	0.163	0.064	1.287	0.478	6.3
S797848	560	1.281	0.805	0.578	0.403	0.278	0.154	0.051	1.281	0.476	6.6
S797846	560	1.185	0.852	0.657	0.493	0.361	0.207	0.066	1.185	0.333	4.9
S797844	560	0.779	0.593	0.468	0.353	0.258	0.154	0.058	0.779	0.186	6.6
S797842	560	0.834	0.656	0.547	0.434	0.344	0.233	0.098	0.834	0.178	4.4
S797840	560	0.820	0.613	0.504	0.394	0.300	0.200	0.084	0.820	0.207	5.1
S797838	560	0.875	0.656	0.514	0.380	0.273	0.177	0.076	0.875	0.219	5.8
S797836	560	0.935	0.638	0.470	0.337	0.248	0.146	0.060	0.935	0.297	7.0
S797834	560	0.816	0.533	0.399	0.287	0.215	0.141	0.070	0.816	0.283	7.3
S797832	560	1.116	0.755	0.582	0.430	0.325	0.213	0.090	1.116	0.361	4.8
S797830	560	0.826	0.485	0.370	0.281	0.200	0.131	0.061	0.826	0.341	7.8
S797828	560	0.941	0.593	0.466	0.360	0.283	0.188	0.068	0.941	0.348	5.4
S797826	560	0.844	0.597	0.453	0.334	0.249	0.159	0.064	0.844	0.247	6.4
S797824	560	0.781	0.489	0.384	0.288	0.219	0.136	0.048	0.781	0.292	7.5
S797822	560	0.736	0.490	0.379	0.278	0.208	0.129	0.052	0.736	0.246	7.9
S797820	560	0.760	0.509	0.384	0.281	0.209	0.130	0.050	0.760	0.251	7.9
S797818	560	0.778	0.531	0.402	0.295	0.217	0.130	0.051	0.778	0.247	7.9
S797816	560	0.933	0.589	0.455	0.338	0.250	0.158	0.069	0.933	0.344	6.5
S797814	560	0.934	0.687	0.530	0.392	0.294	0.180	0.066	0.934	0.247	5.7
S797812	560	0.818	0.542	0.391	0.294	0.221	0.141	0.055	0.818	0.276	7.3
S797810	560	0.667	0.482	0.376	0.292	0.218	0.137	0.052	0.667	0.185	7.5
S797808	560	0.411	0.326	0.283	0.233	0.183	0.118	0.045	0.411	0.085	8.7
S797806	560	0.390	0.284	0.242	0.202	0.159	0.108	0.042	0.390	0.106	9.5
S797804	560	0.269	0.229	0.204	0.174	0.141	0.097	0.038	0.269	0.040	10.6
S797802	560	0.402	0.286	0.244	0.193	0.146	0.093	0.037	0.402	0.116	11.0
S797800	560	0.385	0.312	0.269	0.219	0.175	0.119	0.052	0.385	0.073	8.6
S797798	560	0.430	0.345	0.297	0.239	0.188	0.118	0.046	0.430	0.085	8.7
S797796	560	0.409	0.328	0.286	0.236	0.187	0.128	0.050	0.409	0.081	8.0
S797794	560	0.435	0.352	0.285	0.220	0.165	0.106	0.043	0.435	0.083	9.7
S797792	560	0.484	0.372	0.322	0.265	0.212	0.145	0.060	0.484	0.112	7.1
S797790	560	0.413	0.342	0.288	0.233	0.184	0.126	0.050	0.413	0.071	8.1
S797788	560	0.449	0.367	0.311	0.252	0.197	0.126	0.047	0.449	0.082	8.1
S797786	560	0.432	0.320	0.265	0.208	0.155	0.097	0.033	0.432	0.112	10.6
S797784	560	0.469	0.360	0.298	0.229	0.173	0.105	0.038	0.469	0.109	9.8
S797782	560	0.506	0.370	0.291	0.220	0.169	0.103	0.037	0.506	0.136	9.9
S797780	560	0.434	0.326	0.266	0.210	0.162	0.103	0.043	0.434	0.108	9.9
S797778	560	0.385	0.314	0.269	0.211	0.163	0.106	0.041	0.385	0.071	9.7
S797776	560	0.357	0.280	0.245	0.203	0.164	0.111	0.046	0.357	0.077	9.2
S797774	560	0.385	0.298	0.246	0.200	0.157	0.103	0.040	0.385	0.087	9.9
S797772	560	0.307	0.257	0.224	0.186	0.150	0.103	0.041	0.307	0.050	9.9
No.		150	150	150	150	150	150	150	150	150	150
Minimum		0.217	0.179	0.151	0.115	0.088	0.054	0.021	0.217	0.025	3.922
Maximum		1.295	0.942	0.733	0.557	0.419	0.261	0.101	1.295	0.58	18.958
Average		0.7107	0.4602	0.3374	0.2466	0.1822	0.1154	0.0487	0.71067	0.25047	9.50911
Std. Dev.		0.3601	0.1912	0.1237	0.0838	0.0593	0.035	0.0129	0.36008	0.1838	2.31287
C.V		0.5067	0.4156	0.3667	0.34	0.3256	0.3031	0.2643	0.50668	0.73384	0.24323
90% tile		1.1716	0.705	0.4958	0.3539	0.2581	0.1602	0.0651	1.17157	0.48573	6.54865
95% tile		1.3048	0.7758	0.5416	0.385	0.28	0.1732	0.0699	1.3048	0.55374	5.69289
97.5% tile		1.4164	0.835	0.5799	0.411	0.2984	0.184	0.0739	1.41642	0.61072	4.9759

**RN 2000 EYRE HIGHWAY, SOUTH AUSTRALIA**  
**PAVEMENT REHABILITATION & WIDENING**  
**ROADBOND EN-1 AND LIME FLYASH STABILISATION**



**RN 2000 Eyre Highway Trial Sections**

FEB 96

Chainage	Standard Load Kpa	D0	D200	D300	D450	D600	D900	D1500	Maximum Deflection	Curvature Function	Qld T CBR	SG
S798070	560	0.721	0.428	0.250	0.173	0.123	0.077	0.037	0.721	0.293	13.3	
S798068	560	0.736	0.410	0.256	0.180	0.127	0.077	0.034	0.736	0.326	13.3	
S798066	560	0.684	0.350	0.219	0.154	0.115	0.073	0.034	0.684	0.334	14.0	
S798064	560	0.612	0.336	0.217	0.151	0.112	0.071	0.035	0.612	0.276	14.4	
S798062	560	0.546	0.330	0.209	0.146	0.107	0.073	0.043	0.546	0.216	14.0	
S798060	560	0.683	0.377	0.260	0.193	0.142	0.092	0.043	0.683	0.306	11.1	
S798058	560	0.603	0.328	0.232	0.169	0.122	0.077	0.034	0.603	0.275	13.3	
S798056	560	0.740	0.435	0.274	0.181	0.127	0.078	0.036	0.740	0.305	13.1	
S798054	560	0.663	0.373	0.229	0.156	0.108	0.072	0.037	0.663	0.290	14.2	
S798052	560	0.622	0.329	0.220	0.155	0.112	0.070	0.036	0.622	0.293	14.6	
S798050	560	0.660	0.315	0.219	0.161	0.119	0.081	0.040	0.660	0.345	12.6	
S798048	560	0.638	0.339	0.216	0.146	0.106	0.067	0.035	0.638	0.299	15.3	
S798046	560	0.683	0.352	0.225	0.153	0.107	0.065	0.032	0.683	0.331	15.8	
S798044	560	0.643	0.361	0.211	0.139	0.095	0.060	0.029	0.643	0.282	17.1	
S798042	560	0.542	0.268	0.158	0.109	0.078	0.053	0.030	0.542	0.274	19.3	
S798040	560	0.611	0.321	0.205	0.139	0.096	0.062	0.033	0.611	0.290	16.5	
S798038	560	0.642	0.381	0.252	0.173	0.114	0.072	0.035	0.642	0.261	14.2	
S798036	560	0.702	0.428	0.269	0.184	0.129	0.079	0.037	0.702	0.274	13.0	
S798034	560	0.840	0.475	0.310	0.214	0.150	0.089	0.041	0.840	0.365	11.5	
S798032	560	0.836	0.512	0.330	0.214	0.142	0.082	0.038	0.836	0.324	12.5	
S798030	560	0.640	0.442	0.294	0.200	0.141	0.085	0.039	0.640	0.198	12.0	
S798028	560	0.770	0.459	0.308	0.211	0.146	0.086	0.038	0.770	0.311	11.9	
S798026	560	0.588	0.349	0.238	0.166	0.118	0.070	0.032	0.588	0.239	14.6	
S798024	560	0.665	0.398	0.269	0.192	0.137	0.084	0.038	0.665	0.267	12.2	
S798022	560	0.672	0.451	0.310	0.219	0.156	0.094	0.040	0.672	0.221	10.9	
S798020	560	0.755	0.446	0.326	0.239	0.173	0.106	0.047	0.755	0.309	9.7	
S798018	560	0.851	0.478	0.287	0.220	0.162	0.101	0.047	0.851	0.373	10.1	
S798016	560	0.667	0.396	0.296	0.219	0.159	0.098	0.045	0.667	0.271	10.4	
S798014	560	1.009	0.572	0.375	0.262	0.183	0.104	0.046	1.009	0.437	9.8	
S798012	560	0.877	0.513	0.341	0.239	0.171	0.100	0.045	0.877	0.364	10.2	
S798010	560	0.909	0.552	0.385	0.235	0.179	0.110	0.048	0.909	0.357	9.3	
S798008	560	0.944	0.604	0.439	0.315	0.214	0.123	0.051	0.944	0.340	8.3	
S798006	560	0.765	0.460	0.330	0.236	0.180	0.109	0.044	0.765	0.305	9.4	
S798004	560	0.983	0.538	0.373	0.265	0.185	0.106	0.043	0.983	0.445	9.7	
S798002	560	1.088	0.615	0.410	0.282	0.195	0.109	0.045	1.088	0.473	9.4	
S798000	560	1.015	0.668	0.437	0.296	0.204	0.093	0.044	1.015	0.347	11.0	
S797998	560	0.876	0.465	0.293	0.195	0.134	0.078	0.035	0.876	0.411	13.1	
S797996	560	0.813	0.485	0.309	0.208	0.143	0.084	0.039	0.813	0.328	12.2	
S797994	560	1.058	0.566	0.365	0.243	0.165	0.095	0.044	1.058	0.492	10.8	
S797992	560	1.106	0.595	0.391	0.257	0.175	0.098	0.043	1.106	0.511	10.4	
S797990	560	1.172	0.662	0.405	0.268	0.178	0.102	0.048	1.172	0.510	10.0	
S797988	560	2.735	0.596	0.382	0.243	0.159	0.092	0.045	2.735	2.139	11.1	
S797986	560	1.075	0.537	0.341	0.230	0.157	0.093	0.043	1.075	0.538	11.0	
S797984	560	2.738	0.655	0.402	0.237	0.160	0.089	0.046	2.738	2.083	11.5	
S797982	560	1.060	0.484	0.312	0.217	0.148	0.084	0.036	1.060	0.576	12.2	
S797980	560	0.888	0.494	0.316	0.196	0.134	0.076	0.035	0.888	0.394	13.5	
S797978	560	0.836	0.487	0.308	0.206	0.144	0.086	0.035	0.836	0.349	11.9	
S797976	560	0.990	0.529	0.328	0.219	0.151	0.089	0.040	0.990	0.461	11.5	
S797974	560	0.888	0.501	0.303	0.207	0.116	0.073	0.031	0.888	0.387	14.0	
S797972	560	0.772	0.437	0.280	0.196	0.137	0.084	0.038	0.772	0.335	12.2	
S797970	560	0.828	0.461	0.298	0.209	0.155	0.096	0.044	0.828	0.367	10.7	

**RN 2000 EYRE HIGHWAY, SOUTH AUSTRALIA**  
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S797968	560	0.638	0.341	0.203	0.148	0.122	0.089	0.046	0.638	0.297	11.5
S797966	560	0.248	0.207	0.183	0.160	0.133	0.091	0.048	0.248	0.041	11.3
S797964	560	0.315	0.259	0.236	0.206	0.177	0.117	0.067	0.315	0.056	8.8
S797962	560	0.462	0.251	0.213	0.184	0.154	0.113	0.059	0.462	0.211	9.1
S797960	560	0.320	0.267	0.224	0.188	0.156	0.114	0.057	0.320	0.053	9.0
S797958	560	0.328	0.263	0.224	0.188	0.148	0.105	0.054	0.328	0.065	9.8
S797956	560	0.347	0.256	0.214	0.177	0.142	0.097	0.047	0.347	0.091	10.6
S797954	560	0.452	0.209	0.165	0.128	0.098	0.065	0.035	0.452	0.243	15.8
S797952	560	0.424	0.239	0.186	0.141	0.110	0.074	0.038	0.424	0.185	13.8
S797950	560	0.675	0.242	0.180	0.144	0.109	0.076	0.038	0.675	0.433	13.5
S797948	560	0.305	0.203	0.165	0.130	0.100	0.068	0.036	0.305	0.102	15.1
S797946	560	0.566	0.233	0.169	0.129	0.098	0.065	0.030	0.566	0.333	15.8
S797944	560	0.327	0.229	0.159	0.126	0.096	0.064	0.030	0.327	0.098	16.0
S797942	560	0.341	0.211	0.156	0.120	0.091	0.060	0.032	0.341	0.130	17.1
S797940	560	0.323	0.228	0.168	0.127	0.096	0.065	0.034	0.323	0.095	15.8
S797938	560	0.575	0.238	0.176	0.137	0.109	0.075	0.042	0.575	0.337	13.7
S797936	560	0.354	0.229	0.185	0.144	0.114	0.079	0.039	0.354	0.125	13.0
S797934	560	0.301	0.230	0.182	0.149	0.118	0.079	0.036	0.301	0.071	13.0
S797932	560	0.247	0.197	0.153	0.122	0.099	0.069	0.034	0.247	0.050	14.8
S797930	560	0.275	0.230	0.183	0.152	0.120	0.081	0.037	0.275	0.045	12.6
S797928	560	0.315	0.245	0.202	0.170	0.140	0.098	0.048	0.315	0.070	10.4
S797926	560	0.346	0.274	0.236	0.200	0.158	0.111	0.056	0.346	0.072	9.2
S797924	560	0.276	0.228	0.190	0.160	0.129	0.091	0.048	0.276	0.048	11.3
S797922	560	0.237	0.194	0.166	0.139	0.110	0.079	0.040	0.237	0.043	13.0
S797920	560	0.240	0.195	0.164	0.130	0.105	0.074	0.040	0.240	0.045	13.8
S797918	560	0.267	0.203	0.173	0.145	0.114	0.080	0.036	0.267	0.064	12.8
S797916	560	0.237	0.191	0.163	0.134	0.106	0.076	0.036	0.237	0.046	13.5
S797914	560	0.248	0.209	0.180	0.155	0.128	0.092	0.046	0.248	0.039	11.1
S797912	560	0.277	0.215	0.181	0.153	0.125	0.089	0.043	0.277	0.062	11.5
S797910	560	0.259	0.200	0.171	0.144	0.113	0.078	0.034	0.259	0.059	13.1
S797908	560	0.251	0.196	0.166	0.137	0.108	0.071	0.034	0.251	0.055	14.4
S797906	560	0.253	0.185	0.157	0.133	0.106	0.073	0.033	0.253	0.068	14.0
S797904	560	0.295	0.219	0.182	0.150	0.119	0.082	0.035	0.295	0.076	12.5
S797902	560	0.225	0.181	0.154	0.128	0.101	0.069	0.031	0.225	0.044	14.8
S797900	560	0.300	0.210	0.179	0.145	0.115	0.074	0.033	0.300	0.090	13.8
S797898	560	0.231	0.192	0.161	0.130	0.105	0.069	0.028	0.231	0.039	14.8
S797896	560	0.292	0.215	0.176	0.144	0.114	0.076	0.034	0.292	0.077	13.5
S797894	560	0.257	0.201	0.159	0.130	0.103	0.067	0.027	0.257	0.056	15.3
S797892	560	0.308	0.214	0.176	0.139	0.111	0.070	0.022	0.308	0.094	14.6
S797890	560	0.340	0.246	0.198	0.151	0.114	0.072	0.027	0.340	0.094	14.2
S797888	560	0.365	0.268	0.212	0.171	0.130	0.086	0.035	0.365	0.097	11.9
S797886	560	0.318	0.243	0.189	0.146	0.110	0.065	0.022	0.318	0.075	15.8
S797884	560	0.321	0.254	0.200	0.144	0.106	0.062	0.025	0.321	0.067	16.5
S797882	560	0.373	0.303	0.244	0.188	0.149	0.098	0.040	0.373	0.070	10.4
S797880	560	0.342	0.263	0.213	0.165	0.129	0.078	0.029	0.342	0.079	13.1
S797878	560	0.398	0.317	0.264	0.220	0.180	0.119	0.051	0.398	0.081	8.6
S797876	560	0.448	0.375	0.324	0.255	0.199	0.127	0.041	0.448	0.073	8.1
S797874	560	0.457	0.360	0.298	0.235	0.179	0.110	0.043	0.457	0.097	9.3
S797872	560	0.521	0.416	0.357	0.299	0.234	0.144	0.045	0.521	0.105	7.1
S797870	560	0.433	0.303	0.247	0.197	0.151	0.086	0.027	0.433	0.130	11.9
S797868	560	0.732	0.516	0.403	0.310	0.234	0.136	0.048	0.732	0.216	7.5
S797866	560	0.899	0.638	0.506	0.396	0.288	0.169	0.062	0.899	0.261	6.1
S797864	560	0.965	0.649	0.484	0.358	0.264	0.156	0.059	0.965	0.316	6.6
S797862	560	1.070	0.708	0.500	0.338	0.229	0.109	0.029	1.070	0.362	9.4
S797860	560	0.952	0.694	0.488	0.346	0.245	0.143	0.050	0.952	0.258	7.2
S797858	560	1.069	0.702	0.512	0.354	0.245	0.125	0.036	1.069	0.367	8.2

**RN 2000 EYRE HIGHWAY, SOUTH AUSTRALIA**  
**PAVEMENT REHABILITATION & WIDENING**  
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S797856	560	1.027	0.614	0.443	0.310	0.204	0.107	0.041	1.027	0.413	9.6
S797854	560	1.001	0.710	0.544	0.388	0.277	0.151	0.051	1.001	0.291	6.8
S797852	560	0.874	0.640	0.494	0.358	0.247	0.130	0.050	0.874	0.234	7.9
S797850	560	0.983	0.693	0.507	0.369	0.255	0.133	0.054	0.983	0.290	7.7
S797848	560	0.963	0.631	0.466	0.334	0.235	0.124	0.047	0.963	0.332	8.3
S797846	560	0.861	0.615	0.457	0.330	0.234	0.119	0.043	0.861	0.246	8.6
S797844	560	0.841	0.616	0.502	0.383	0.275	0.163	0.056	0.841	0.225	6.3
S797842	560	0.812	0.616	0.473	0.370	0.271	0.181	0.077	0.812	0.196	5.7
S797840	560	0.639	0.474	0.397	0.321	0.239	0.150	0.058	0.639	0.165	6.8
S797838	560	0.675	0.521	0.403	0.331	0.247	0.146	0.055	0.675	0.154	7.0
S797836	560	0.482	0.398	0.351	0.292	0.224	0.138	0.052	0.482	0.084	7.4
S797834	560	0.513	0.441	0.355	0.274	0.220	0.139	0.061	0.513	0.072	7.4
S797832	560	0.562	0.463	0.382	0.306	0.242	0.149	0.057	0.562	0.099	6.9
S797830	560	0.528	0.410	0.349	0.279	0.204	0.131	0.049	0.528	0.118	7.8
S797828	560	0.522	0.427	0.361	0.298	0.231	0.137	0.055	0.522	0.095	7.5
S797826	560	0.462	0.350	0.281	0.234	0.185	0.119	0.045	0.462	0.112	8.6
S797824	560	0.434	0.342	0.290	0.241	0.185	0.111	0.046	0.434	0.092	9.2
S797822	560	0.451	0.355	0.305	0.256	0.203	0.133	0.057	0.451	0.096	7.7
S797820	560	0.406	0.346	0.283	0.235	0.179	0.114	0.047	0.406	0.060	9.0
S797818	560	0.406	0.329	0.275	0.224	0.159	0.102	0.041	0.406	0.077	10.0
S797816	560	0.428	0.327	0.271	0.212	0.159	0.098	0.040	0.428	0.101	10.4
S797814	560	0.387	0.308	0.258	0.217	0.175	0.124	0.054	0.387	0.079	8.3
S797812	560	0.414	0.345	0.285	0.229	0.180	0.107	0.043	0.414	0.069	9.6
S797810	560	0.520	0.405	0.313	0.240	0.174	0.106	0.039	0.520	0.115	9.7
S797808	560	0.505	0.368	0.297	0.233	0.175	0.103	0.038	0.505	0.137	9.9
S797806	560	0.362	0.280	0.232	0.183	0.140	0.087	0.035	0.362	0.082	11.8
S797804	560	0.279	0.225	0.189	0.150	0.117	0.075	0.031	0.279	0.054	13.7
S797802	560	0.224	0.176	0.148	0.122	0.096	0.064	0.032	0.224	0.048	16.0
S797800	560	0.348	0.268	0.227	0.188	0.149	0.098	0.043	0.348	0.080	10.4
S797798	560	0.309	0.249	0.222	0.176	0.145	0.101	0.045	0.309	0.060	10.1
S797796	560	0.321	0.266	0.229	0.194	0.154	0.101	0.041	0.321	0.055	10.1
S797794	560	0.281	0.232	0.196	0.164	0.128	0.085	0.035	0.281	0.049	12.0
S797792	560	0.370	0.295	0.249	0.208	0.165	0.109	0.045	0.370	0.075	9.4
S797790	560	0.302	0.249	0.217	0.186	0.151	0.100	0.041	0.302	0.053	10.2
S797788	560	0.377	0.304	0.261	0.222	0.179	0.121	0.047	0.377	0.073	8.5
S797786	560	0.430	0.336	0.276	0.223	0.163	0.098	0.032	0.430	0.094	10.4
S797784	560	0.385	0.297	0.244	0.201	0.151	0.090	0.035	0.385	0.088	11.4
S797782	560	0.422	0.326	0.273	0.222	0.164	0.098	0.035	0.422	0.096	10.4
S797780	560	0.382	0.303	0.244	0.194	0.151	0.096	0.038	0.382	0.079	10.7
S797778	560	0.375	0.295	0.248	0.199	0.158	0.101	0.040	0.375	0.080	10.1
S797776	560	0.266	0.231	0.200	0.169	0.136	0.091	0.036	0.266	0.035	11.3
S797774	560	0.266	0.220	0.191	0.163	0.131	0.088	0.036	0.266	0.046	11.6
S797772	560	0.370	0.312	0.270	0.221	0.174	0.106	0.038	0.370	0.058	9.7
No.		150	150	150	150	150	150	150	150	150	150
Minimum		0.224	0.176	0.148	0.109	0.078	0.053	0.022	0.224	0.035	5.656
Maximum		2.738	0.71	0.544	0.396	0.288	0.181	0.077	2.738	2.139	19.316
Average		0.5943	0.3729	0.2758	0.2074	0.154	0.0956	0.0411	0.5943	0.2214	11.3938
Std. Dev.		0.3609	0.147	0.0974	0.0674	0.0468	0.0252	0.009	0.36093	0.26031	2.74224
C.V		0.6073	0.3942	0.3531	0.325	0.3038	0.2633	0.2188	0.60731	1.17576	0.24068
90% tile		1.0563	0.5611	0.4005	0.2936	0.214	0.1278	0.0526	1.05629	0.5546	7.88371
95% tile		1.1898	0.6155	0.4365	0.3186	0.2313	0.1371	0.056	1.18983	0.65092	6.86908
97.5% tile		1.3017	0.661	0.4667	0.3394	0.2458	0.1449	0.0587	1.30172	0.73161	6.01898

**RN 2000 EYRE HIGHWAY, SOUTH AUSTRALIA**  
**PAVEMENT REHABILITATION & WIDENING**  
**ROADBOND EN-1 AND LIME FLYASH STABILISATION**



**RN 2000 Eyre highway trial sections**

**Aug-96**

Chainage	Standard Load Kpa	D0	D200	D300	D450	D600	D900	D1500	Maximum Deflection	Curvature Function	Qld T CBR	SG
S798070	560	0.509	0.291	0.188	0.128	0.095	0.063	0.029	0.509	0.218	16.3	
S798066	560	0.564	0.308	0.188	0.134	0.100	0.067	0.030	0.564	0.256	15.3	
S798062	560	0.479	0.234	0.142	0.109	0.085	0.060	0.032	0.479	0.245	17.1	
S798058	560	0.398	0.241	0.189	0.144	0.109	0.070	0.029	0.398	0.157	14.6	
S798054	560	0.536	0.257	0.172	0.120	0.090	0.056	0.029	0.536	0.279	18.3	
S798050	560	0.480	0.273	0.198	0.139	0.105	0.057	0.031	0.480	0.207	18.0	
S798046	560	0.502	0.295	0.202	0.129	0.091	0.057	0.026	0.502	0.207	18.0	
S798042	560	0.432	0.199	0.141	0.098	0.073	0.050	0.024	0.432	0.233	20.5	
S798038	560	0.564	0.311	0.203	0.133	0.097	0.061	0.030	0.564	0.253	16.8	
S798034	560	0.631	0.367	0.247	0.164	0.117	0.073	0.033	0.631	0.264	14.0	
S798030	560	0.702	0.383	0.260	0.162	0.117	0.072	0.032	0.702	0.319	14.2	
S798026	560	0.649	0.395	0.263	0.142	0.104	0.068	0.027	0.649	0.254	15.1	
S798022	560	0.795	0.392	0.272	0.185	0.129	0.079	0.035	0.795	0.403	13.0	
S798018	560	0.666	0.381	0.257	0.176	0.127	0.080	0.037	0.666	0.285	12.8	
S798014	560	0.812	0.473	0.324	0.208	0.146	0.088	0.038	0.812	0.339	11.6	
S798010	560	0.812	0.427	0.298	0.205	0.149	0.093	0.039	0.812	0.385	11.0	
S798006	560	0.878	0.483	0.343	0.213	0.161	0.076	0.035	0.878	0.395	13.5	
S798002	560	0.846	0.568	0.262	0.164	0.114	0.079	0.036	0.846	0.278	13.0	
S797998	560	0.862	0.465	0.287	0.194	0.137	0.088	0.035	0.862	0.397	11.6	
S797994	560	0.783	0.399	0.271	0.187	0.132	0.083	0.039	0.783	0.384	12.3	
S797990	560	0.871	0.487	0.329	0.210	0.145	0.087	0.039	0.871	0.384	11.8	
S797986	560	0.776	0.377	0.262	0.177	0.126	0.081	0.038	0.776	0.399	12.6	
S797982	560	0.839	0.454	0.280	0.174	0.100	0.071	0.032	0.839	0.385	14.4	
S797978	560	0.731	0.418	0.282	0.176	0.122	0.074	0.033	0.731	0.313	13.8	
S797974	560	0.823	0.399	0.267	0.175	0.120	0.073	0.028	0.823	0.424	14.0	
S797970	560	0.704	0.413	0.270	0.179	0.127	0.079	0.037	0.704	0.291	13.0	
S797966	560	0.254	0.224	0.149	0.128	0.108	0.079	0.041	0.254	0.030	13.0	
S797962	560	0.347	0.280	0.235	0.183	0.149	0.100	0.051	0.347	0.067	10.2	
S797958	560	0.363	0.284	0.244	0.193	0.153	0.092	0.046	0.363	0.079	11.1	
S797954	560	0.368	0.244	0.188	0.129	0.101	0.068	0.032	0.368	0.124	15.1	
S797950	560	0.342	0.231	0.168	0.129	0.100	0.071	0.034	0.342	0.111	14.4	
S797946	560	0.329	0.235	0.184	0.119	0.090	0.062	0.031	0.329	0.094	16.5	
S797942	560	0.316	0.208	0.157	0.108	0.085	0.058	0.028	0.316	0.108	17.7	
S797938	560	0.431	0.259	0.174	0.140	0.106	0.075	0.036	0.431	0.172	13.7	
S797934	560	0.355	0.228	0.180	0.138	0.105	0.069	0.032	0.355	0.127	14.8	
S797930	560	0.302	0.206	0.165	0.137	0.103	0.074	0.032	0.302	0.096	13.8	
S797926	560	0.364	0.267	0.215	0.168	0.118	0.084	0.042	0.364	0.097	12.2	
S797922	560	0.314	0.225	0.182	0.148	0.119	0.079	0.036	0.314	0.089	13.0	
S797918	560	0.344	0.232	0.194	0.141	0.114	0.075	0.037	0.344	0.112	13.7	
S797914	560	0.309	0.205	0.173	0.137	0.106	0.073	0.033	0.309	0.104	14.0	
S797910	560	0.331	0.232	0.189	0.151	0.113	0.078	0.033	0.331	0.099	13.1	
S797906	560	0.244	0.183	0.158	0.127	0.090	0.062	0.028	0.244	0.061	16.5	
S797902	560	0.250	0.183	0.155	0.127	0.098	0.058	0.026	0.250	0.067	17.7	
S797898	560	0.319	0.201	0.168	0.131	0.101	0.066	0.024	0.319	0.118	15.5	
S797894	560	0.294	0.219	0.188	0.121	0.093	0.058	0.022	0.294	0.075	17.7	
S797890	560	0.386	0.290	0.207	0.154	0.117	0.075	0.026	0.386	0.096	13.7	
S797886	560	0.358	0.265	0.213	0.153	0.115	0.070	0.024	0.358	0.093	14.6	
S797882	560	0.352	0.233	0.183	0.140	0.109	0.067	0.030	0.352	0.119	15.3	
S797878	560	0.385	0.297	0.240	0.191	0.144	0.090	0.032	0.385	0.088	11.4	
S797874	560	0.512	0.386	0.298	0.212	0.157	0.099	0.038	0.512	0.126	10.3	

**RN 2000 EYRE HIGHWAY, SOUTH AUSTRALIA**  
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S797870	560	0.566	0.419	0.305	0.221	0.161	0.088	0.025	0.566	0.147	11.6
S797866	560	0.878	0.621	0.471	0.340	0.250	0.147	0.048	0.878	0.257	7.0
S797862	560	0.923	0.625	0.445	0.302	0.206	0.112	0.034	0.923	0.298	9.1
S797858	560	0.901	0.635	0.449	0.322	0.230	0.125	0.037	0.901	0.266	8.2
S797854	560	0.729	0.529	0.395	0.281	0.205	0.120	0.043	0.729	0.200	8.5
S797850	560	0.931	0.653	0.477	0.328	0.228	0.119	0.046	0.931	0.278	8.6
S797846	560	0.763	0.557	0.421	0.300	0.218	0.121	0.037	0.763	0.206	8.5
S797842	560	0.745	0.480	0.362	0.272	0.199	0.118	0.046	0.745	0.265	8.7
S797838	560	0.534	0.430	0.368	0.268	0.209	0.118	0.042	0.534	0.104	8.7
S797834	560	0.535	0.405	0.338	0.264	0.183	0.120	0.048	0.535	0.130	8.5
S797830	560	0.502	0.359	0.307	0.245	0.172	0.117	0.043	0.502	0.143	8.8
S797826	560	0.352	0.279	0.236	0.186	0.129	0.088	0.031	0.352	0.073	11.6
S797822	560	0.399	0.298	0.248	0.200	0.154	0.102	0.041	0.399	0.101	10.0
S797818	560	0.346	0.277	0.225	0.181	0.137	0.089	0.034	0.346	0.069	11.5
S797814	560	0.402	0.279	0.236	0.175	0.134	0.096	0.041	0.402	0.123	10.7
S797810	560	0.478	0.346	0.263	0.197	0.146	0.089	0.033	0.478	0.132	11.5
S797806	560	0.397	0.274	0.226	0.176	0.125	0.082	0.031	0.397	0.123	12.5
S797802	560	0.235	0.170	0.148	0.117	0.088	0.056	0.025	0.235	0.065	18.3
S797798	560	0.318	0.244	0.211	0.167	0.135	0.094	0.033	0.318	0.074	10.9
S797794	560	0.274	0.224	0.192	0.153	0.116	0.066	0.031	0.274	0.050	15.5
S797790	560	0.359	0.282	0.239	0.193	0.147	0.092	0.031	0.359	0.077	11.1
S797786	560	0.395	0.281	0.235	0.184	0.135	0.078	0.028	0.395	0.114	13.1
S797782	560	0.370	0.260	0.216	0.170	0.124	0.073	0.026	0.370	0.110	14.0
S797778	560	0.370	0.268	0.227	0.171	0.103	0.068	0.031	0.370	0.102	15.1
S797774	560	0.271	0.225	0.196	0.143	0.116	0.076	0.029	0.271	0.046	13.5
S797770	560	0.390	0.266	0.218	0.161	0.117	0.078	0.031	0.390	0.124	13.1
S797766	560	0.233	0.188	0.163	0.135	0.110	0.071	0.027	0.233	0.045	14.4
S797762	560	0.228	0.172	0.150	0.123	0.093	0.066	0.028	0.228	0.056	15.5
S797758	560	0.190	0.164	0.148	0.122	0.098	0.056	0.026	0.190	0.026	18.3
S797754	560	0.245	0.199	0.172	0.138	0.101	0.067	0.030	0.245	0.046	15.3
S797750	560	0.282	0.235	0.214	0.111	0.093	0.068	0.029	0.282	0.047	15.1
S797746	560	0.196	0.147	0.132	0.114	0.096	0.072	0.036	0.196	0.049	14.2
S797742	560	0.246	0.193	0.164	0.142	0.118	0.087	0.028	0.246	0.053	11.8
S797738	560	0.279	0.157	0.137	0.122	0.103	0.077	0.037	0.279	0.122	13.3
S797734	560	0.270	0.224	0.160	0.114	0.089	0.054	0.020	0.270	0.046	19.0
S797730	560	0.207	0.163	0.142	0.117	0.091	0.063	0.026	0.207	0.044	16.3
S797726	560	0.267	0.190	0.162	0.131	0.100	0.067	0.027	0.267	0.077	15.3
S797722	560	0.289	0.224	0.197	0.160	0.131	0.096	0.042	0.289	0.065	10.7
S797718	560	0.276	0.228	0.213	0.109	0.091	0.069	0.032	0.276	0.048	14.8
S797714	560	0.315	0.163	0.144	0.121	0.099	0.070	0.032	0.315	0.152	14.6
S797710	560	0.285	0.220	0.193	0.150	0.114	0.076	0.029	0.285	0.065	13.5
S797706	560	0.305	0.184	0.163	0.136	0.110	0.069	0.035	0.305	0.121	14.8
S797702	560	0.284	0.172	0.153	0.130	0.106	0.074	0.031	0.284	0.112	13.8
S797698	560	0.247	0.171	0.147	0.118	0.094	0.066	0.029	0.247	0.076	15.5
S797694	560	0.244	0.154	0.138	0.092	0.078	0.059	0.026	0.244	0.090	17.4
S797690	560	0.253	0.194	0.129	0.101	0.081	0.058	0.029	0.253	0.059	17.7
S797686	560	0.248	0.203	0.165	0.133	0.095	0.071	0.035	0.248	0.045	14.4
S797682	560	0.285	0.213	0.167	0.129	0.099	0.069	0.033	0.285	0.072	14.8
S797678	560	0.179	0.143	0.113	0.092	0.072	0.052	0.026	0.179	0.036	19.7
S797674	560	0.218	0.130	0.090	0.076	0.063	0.049	0.027	0.218	0.088	20.9
S797670	560	0.202	0.160	0.135	0.107	0.084	0.056	0.028	0.202	0.042	18.3
S797666	560	0.214	0.129	0.077	0.068	0.060	0.048	0.022	0.214	0.085	21.3
S797662	560	0.223	0.117	0.102	0.084	0.069	0.049	0.025	0.223	0.106	20.9
S797658	560	0.186	0.143	0.126	0.103	0.087	0.047	0.028	0.186	0.043	21.8
S797654	560	0.175	0.159	0.153	0.074	0.066	0.053	0.032	0.175	0.016	19.3
S797650	560	0.177	0.134	0.114	0.095	0.078	0.057	0.028	0.177	0.043	18.0

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S797646	560	0.179	0.152	0.139	0.123	0.109	0.047	0.028	0.179	0.027	21.8
S797642	560	0.245	0.123	0.111	0.097	0.082	0.060	0.029	0.245	0.122	17.1
S797638	560	0.178	0.152	0.137	0.115	0.096	0.073	0.035	0.178	0.026	14.0
S797634	560	0.209	0.166	0.146	0.121	0.098	0.070	0.028	0.209	0.043	14.6
S797630	560	0.263	0.195	0.165	0.132	0.101	0.070	0.030	0.263	0.068	14.6
S797626	560	0.180	0.162	0.085	0.073	0.062	0.048	0.025	0.180	0.018	21.3
S797622	560	0.147	0.118	0.106	0.089	0.075	0.046	0.026	0.147	0.029	22.3
S797618	560	0.152	0.122	0.100	0.084	0.069	0.053	0.021	0.152	0.030	19.3
S797614	560	0.195	0.144	0.122	0.097	0.077	0.054	0.024	0.195	0.051	19.0
S797610	560	0.156	0.114	0.097	0.077	0.058	0.042	0.019	0.156	0.042	24.4
S797606	560	0.196	0.142	0.119	0.090	0.053	0.039	0.021	0.196	0.054	25
S797602	560	0.144	0.117	0.107	0.045	0.039	0.034	0.020	0.144	0.027	25
S797598	560	0.142	0.105	0.090	0.075	0.061	0.043	0.023	0.142	0.037	23.8
S797594	560	0.175	0.093	0.080	0.070	0.060	0.037	0.022	0.175	0.082	25
S797590	560	0.135	0.110	0.102	0.074	0.062	0.047	0.022	0.135	0.025	21.8
S797586	560	0.152	0.106	0.088	0.074	0.058	0.043	0.022	0.152	0.046	23.8
S797582	560	0.170	0.147	0.071	0.064	0.055	0.043	0.025	0.170	0.023	23.8
S797578	560	0.185	0.106	0.090	0.077	0.063	0.046	0.021	0.185	0.079	22.3
S797574	560	0.160	0.110	0.094	0.075	0.061	0.043	0.023	0.160	0.050	23.8
S797570	560	0.136	0.075	0.064	0.059	0.050	0.040	0.023	0.136	0.061	25
S797566	560	0.194	0.136	0.110	0.085	0.065	0.045	0.022	0.194	0.058	22.7
S797562	560	0.143	0.108	0.092	0.074	0.067	0.043	0.029	0.143	0.035	23.8
S797558	560	0.137	0.115	0.104	0.089	0.050	0.040	0.022	0.137	0.022	25
S797554	560	0.193	0.145	0.124	0.099	0.078	0.053	0.023	0.193	0.048	19.3
S797550	560	0.163	0.125	0.106	0.087	0.069	0.050	0.026	0.163	0.038	20.5
S797546	560	0.197	0.151	0.130	0.108	0.087	0.063	0.031	0.197	0.046	16.3
S797542	560	0.188	0.150	0.129	0.109	0.090	0.065	0.032	0.188	0.038	15.8
S797538	560	0.184	0.168	0.150	0.132	0.117	0.089	0.042	0.184	0.016	11.5
S797534	560	0.222	0.203	0.189	0.174	0.153	0.124	0.045	0.222	0.019	8.3
S797530	560	0.299	0.241	0.218	0.191	0.151	0.090	0.040	0.299	0.058	11.4
S797526	560	0.377	0.306	0.265	0.223	0.178	0.120	0.045	0.377	0.071	8.5
S797522	560	0.310	0.243	0.214	0.175	0.132	0.090	0.033	0.310	0.067	11.4
S797518	560	0.384	0.302	0.268	0.198	0.141	0.098	0.042	0.384	0.082	10.4
S797514	560	0.230	0.177	0.161	0.135	0.111	0.080	0.029	0.230	0.053	12.8
S797510	560	0.317	0.273	0.229	0.165	0.140	0.102	0.045	0.317	0.044	10.0
S797506	560	0.254	0.182	0.163	0.136	0.112	0.078	0.030	0.254	0.072	13.1
S797502	560	0.210	0.175	0.156	0.134	0.114	0.057	0.028	0.210	0.035	18.0
S797498	560	0.181	0.157	0.141	0.118	0.098	0.069	0.029	0.181	0.024	14.8
S797494	560	0.198	0.157	0.147	0.131	0.078	0.053	0.025	0.198	0.041	19.3
S797490	560	0.259	0.190	0.167	0.135	0.112	0.077	0.029	0.259	0.069	13.3
S797486	560	0.178	0.137	0.123	0.103	0.087	0.063	0.026	0.178	0.041	16.3
S797482	560	0.160	0.138	0.129	0.102	0.086	0.064	0.029	0.160	0.022	16.0
S797478	560	0.172	0.133	0.118	0.099	0.083	0.058	0.027	0.172	0.039	17.7
S797474	560	0.199	0.144	0.127	0.105	0.077	0.062	0.027	0.199	0.055	16.5
No.		150	150	150	150	150	150	150	150	150	150
Minimum		0.135	0.075	0.064	0.045	0.039	0.034	0.019	0.135	0.016	6.964
Maximum		0.931	0.653	0.477	0.34	0.25	0.147	0.051	0.931	0.424	30.109
Average		0.3685	0.2485	0.1933	0.1447	0.1101	0.0723	0.0313	0.36848	0.11994	15.3649
Std. Dev.		0.2146	0.124	0.083	0.0557	0.0385	0.0212	0.0067	0.21464	0.10383	4.45773
C.V		0.5825	0.499	0.4295	0.3849	0.3497	0.2931	0.2154	0.58251	0.86572	0.29012
90% tile		0.6432	0.4073	0.2996	0.2161	0.1594	0.0994	0.04	0.64322	0.25285	9.65897
95% tile		0.7226	0.4532	0.3303	0.2367	0.1736	0.1073	0.0425	0.72264	0.29127	8.00961
97.5% tile		0.7892	0.4916	0.356	0.2539	0.1855	0.1138	0.0445	0.78918	0.32346	6.62771

**RN 2000 EYRE HIGHWAY, SOUTH AUSTRALIA**  
**PAVEMENT REHABILITATION & WIDENING**  
**ROADBOND EN-1 AND LIME FLYASH STABILISATION**



**RN 2000 Eyre Highway Trial Sections**

**Jun-97**

Chainage	Standard Load	D0 Kpa	D200	D300	D450 millimetres	D600	D900	D1500	Maximum Deflection	Curvature Function	Qld T CBR	SG
S798070	560	0.501	0.264	0.159	0.114	0.088	0.060	0.033	0.501	0.237	17.1	
S798068	560	0.513	0.279	0.173	0.129	0.101	0.070	0.032	0.513	0.234	14.6	
S798066	560	0.585	0.330	0.223	0.162	0.118	0.075	0.031	0.585	0.255	13.7	
S798064	560	0.567	0.312	0.148	0.119	0.099	0.073	0.033	0.567	0.255	14.0	
S798062	560	0.553	0.332	0.234	0.161	0.124	0.075	0.043	0.553	0.221	13.7	
S798060	560	0.686	0.379	0.286	0.214	0.115	0.069	0.040	0.686	0.307	14.8	
S798058	560	0.604	0.373	0.260	0.138	0.109	0.065	0.031	0.604	0.231	15.8	
S798056	560	0.550	0.236	0.155	0.119	0.093	0.061	0.030	0.550	0.314	16.8	
S798054	560	0.510	0.285	0.185	0.120	0.087	0.061	0.032	0.510	0.225	16.8	
S798052	560	0.450	0.258	0.182	0.140	0.098	0.066	0.035	0.450	0.192	15.5	
S798050	560	0.518	0.290	0.209	0.154	0.118	0.080	0.036	0.518	0.228	12.8	
S798048	560	0.489	0.296	0.186	0.115	0.082	0.055	0.030	0.489	0.193	18.6	
S798046	560	0.584	0.295	0.199	0.141	0.079	0.052	0.027	0.584	0.289	19.7	
S798044	560	0.544	0.259	0.145	0.107	0.079	0.056	0.027	0.544	0.285	18.3	
S798042	560	0.443	0.216	0.146	0.110	0.080	0.060	0.026	0.443	0.227	17.1	
S798040	560	0.554	0.320	0.170	0.096	0.076	0.052	0.027	0.554	0.234	19.7	
S798038	560	0.644	0.304	0.201	0.136	0.092	0.062	0.032	0.644	0.340	16.5	
S798036	560	0.644	0.331	0.201	0.143	0.099	0.071	0.033	0.644	0.313	14.4	
S798034	560	0.603	0.324	0.207	0.153	0.113	0.071	0.034	0.603	0.279	14.4	
S798032	560	0.708	0.453	0.295	0.181	0.122	0.066	0.033	0.708	0.255	15.5	
S798030	560	0.768	0.340	0.234	0.153	0.101	0.072	0.034	0.768	0.428	14.2	
S798028	560	0.786	0.401	0.247	0.173	0.125	0.076	0.034	0.786	0.385	13.5	
S798026	560	0.610	0.341	0.217	0.153	0.107	0.064	0.031	0.610	0.269	16.0	
S798024	560	0.627	0.378	0.255	0.176	0.127	0.076	0.033	0.627	0.249	13.5	
S798022	560	0.818	0.457	0.301	0.220	0.152	0.091	0.036	0.818	0.361	11.3	
S798020	560	0.781	0.428	0.290	0.198	0.145	0.086	0.042	0.781	0.353	11.9	
S798018	560	0.800	0.441	0.303	0.230	0.162	0.077	0.039	0.800	0.359	13.3	
S798016	560	0.779	0.466	0.303	0.219	0.163	0.073	0.039	0.779	0.313	14.0	
S798014	560	0.885	0.460	0.301	0.209	0.140	0.077	0.041	0.885	0.425	13.3	
S798012	560	0.844	0.437	0.212	0.163	0.127	0.084	0.041	0.844	0.407	12.2	
S798010	560	0.948	0.532	0.357	0.157	0.103	0.076	0.045	0.948	0.416	13.5	
S798008	560	0.940	0.543	0.340	0.235	0.160	0.089	0.042	0.940	0.397	11.5	
S798006	560	0.915	0.505	0.347	0.189	0.123	0.081	0.040	0.915	0.410	12.6	
S798004	560	0.838	0.447	0.265	0.189	0.132	0.075	0.035	0.838	0.391	13.7	
S798002	560	0.857	0.380	0.238	0.146	0.092	0.067	0.030	0.857	0.477	15.3	
S798000	560	1.048	0.541	0.339	0.224	0.121	0.065	0.033	1.048	0.507	15.8	
S797998	560	0.757	0.349	0.169	0.149	0.119	0.057	0.029	0.757	0.408	18.0	
S797996	560	0.736	0.412	0.269	0.196	0.148	0.059	0.033	0.736	0.324	17.4	
S797994	560	0.814	0.441	0.306	0.218	0.153	0.087	0.035	0.814	0.373	11.8	
S797992	560	0.862	0.473	0.302	0.212	0.149	0.062	0.035	0.862	0.389	16.5	
S797990	560	0.822	0.438	0.272	0.187	0.123	0.076	0.037	0.822	0.384	13.5	
S797988	560	0.887	0.475	0.271	0.182	0.129	0.077	0.036	0.887	0.412	13.3	
S797986	560	0.609	0.331	0.213	0.148	0.107	0.064	0.029	0.609	0.278	16.0	
S797984	560	0.717	0.407	0.249	0.166	0.114	0.068	0.036	0.717	0.310	15.1	
S797982	560	0.745	0.435	0.214	0.117	0.097	0.066	0.032	0.745	0.310	15.5	
S797980	560	0.682	0.417	0.230	0.122	0.083	0.057	0.031	0.682	0.265	18.0	
S797978	560	0.658	0.378	0.238	0.167	0.114	0.067	0.031	0.658	0.280	15.3	
S797976	560	0.848	0.439	0.255	0.155	0.104	0.060	0.031	0.848	0.409	17.1	
S797974	560	0.626	0.383	0.244	0.145	0.082	0.056	0.027	0.626	0.243	18.3	
S797972	560	0.564	0.320	0.213	0.150	0.111	0.069	0.034	0.564	0.244	14.8	

**RN 2000 EYRE HIGHWAY, SOUTH AUSTRALIA**  
**PAVEMENT REHABILITATION & WIDENING**  
**ROADBOND EN-1 AND LIME FLYASH STABILISATION**



S797970	560	0.601	0.342	0.227	0.163	0.119	0.076	0.036	0.601	0.259	13.5
S797968	560	0.319	0.215	0.181	0.153	0.124	0.080	0.039	0.319	0.104	12.8
S797966	560	0.244	0.195	0.171	0.148	0.120	0.087	0.043	0.244	0.049	11.8
S797964	560	0.340	0.282	0.240	0.212	0.135	0.101	0.058	0.340	0.058	10.1
S797962	560	0.381	0.271	0.227	0.185	0.149	0.106	0.050	0.381	0.110	9.7
S797960	560	0.377	0.269	0.190	0.154	0.128	0.093	0.044	0.377	0.108	11.0
S797958	560	0.423	0.294	0.230	0.179	0.119	0.088	0.046	0.423	0.129	11.6
S797956	560	0.490	0.304	0.217	0.169	0.119	0.080	0.041	0.490	0.186	12.8
S797954	560	0.482	0.307	0.194	0.140	0.103	0.068	0.036	0.482	0.175	15.1
S797952	560	0.563	0.322	0.204	0.150	0.109	0.072	0.037	0.563	0.241	14.2
S797950	560	0.447	0.295	0.198	0.142	0.104	0.070	0.036	0.447	0.152	14.6
S797948	560	0.448	0.265	0.177	0.135	0.100	0.066	0.033	0.448	0.183	15.5
S797946	560	0.395	0.260	0.174	0.124	0.091	0.061	0.031	0.395	0.135	16.8
S797944	560	0.402	0.246	0.165	0.123	0.093	0.062	0.031	0.402	0.156	16.5
S797942	560	0.361	0.227	0.156	0.112	0.086	0.055	0.030	0.361	0.134	18.6
S797940	560	0.408	0.248	0.164	0.120	0.091	0.062	0.032	0.408	0.160	16.5
S797938	560	0.417	0.249	0.160	0.124	0.093	0.066	0.038	0.417	0.168	15.5
S797936	560	0.457	0.276	0.174	0.142	0.106	0.071	0.038	0.457	0.181	14.4
S797934	560	0.443	0.274	0.196	0.134	0.104	0.071	0.034	0.443	0.169	14.4
S797932	560	0.358	0.236	0.154	0.123	0.094	0.062	0.029	0.358	0.122	16.5
S797930	560	0.372	0.275	0.194	0.142	0.114	0.070	0.034	0.372	0.097	14.6
S797928	560	0.383	0.268	0.208	0.154	0.123	0.082	0.040	0.383	0.115	12.5
S797926	560	0.434	0.302	0.237	0.157	0.128	0.086	0.043	0.434	0.132	11.9
S797924	560	0.355	0.256	0.202	0.137	0.115	0.081	0.041	0.355	0.099	12.6
S797922	560	0.324	0.210	0.165	0.128	0.093	0.064	0.030	0.324	0.114	16.0
S797920	560	0.287	0.205	0.160	0.134	0.109	0.064	0.034	0.287	0.082	16.0
S797918	560	0.317	0.237	0.180	0.150	0.111	0.076	0.033	0.317	0.080	13.5
S797916	560	0.290	0.205	0.168	0.140	0.110	0.075	0.030	0.290	0.085	13.7
S797914	560	0.265	0.200	0.171	0.145	0.118	0.087	0.034	0.265	0.065	11.8
S797912	560	0.289	0.217	0.188	0.162	0.116	0.077	0.036	0.289	0.072	13.3
S797910	560	0.296	0.209	0.174	0.142	0.114	0.068	0.030	0.296	0.087	15.1
S797908	560	0.287	0.175	0.144	0.120	0.096	0.064	0.025	0.287	0.112	16.0
S797906	560	0.305	0.236	0.183	0.139	0.108	0.078	0.029	0.305	0.069	13.1
S797904	560	0.261	0.194	0.161	0.133	0.108	0.063	0.025	0.261	0.067	16.3
S797902	560	0.248	0.189	0.162	0.107	0.087	0.061	0.030	0.248	0.059	16.8
S797900	560	0.280	0.212	0.172	0.140	0.111	0.073	0.025	0.280	0.068	14.0
S797898	560	0.278	0.200	0.171	0.114	0.093	0.062	0.025	0.278	0.078	16.5
S797896	560	0.360	0.202	0.167	0.134	0.101	0.067	0.027	0.360	0.158	15.3
S797894	560	0.334	0.207	0.169	0.130	0.096	0.063	0.025	0.334	0.127	16.3
S797892	560	0.357	0.268	0.200	0.159	0.116	0.076	0.027	0.357	0.089	13.5
S797890	560	0.329	0.236	0.191	0.135	0.102	0.064	0.025	0.329	0.093	16.0
S797888	560	0.397	0.276	0.212	0.158	0.123	0.077	0.026	0.397	0.121	13.3
S797886	560	0.347	0.205	0.160	0.130	0.085	0.054	0.020	0.347	0.142	19.0
S797884	560	0.350	0.226	0.168	0.129	0.093	0.060	0.025	0.350	0.124	17.1
S797882	560	0.495	0.324	0.254	0.203	0.149	0.092	0.028	0.495	0.171	11.1
S797880	560	0.363	0.287	0.216	0.170	0.132	0.082	0.031	0.363	0.076	12.5
S797878	560	0.446	0.333	0.251	0.205	0.155	0.099	0.041	0.446	0.113	10.3
S797876	560	0.511	0.356	0.253	0.196	0.140	0.082	0.031	0.511	0.155	12.5
S797874	560	0.661	0.447	0.304	0.241	0.192	0.126	0.049	0.661	0.214	8.1
S797872	560	0.602	0.436	0.333	0.223	0.165	0.091	0.028	0.602	0.166	11.3
S797870	560	0.381	0.281	0.217	0.171	0.130	0.082	0.031	0.381	0.100	12.5
S797868	560	0.794	0.557	0.410	0.306	0.231	0.139	0.049	0.794	0.237	7.4
S797866	560	0.765	0.537	0.408	0.311	0.224	0.135	0.046	0.765	0.228	7.6
S797864	560	0.754	0.455	0.334	0.253	0.188	0.116	0.045	0.754	0.299	8.8
S797862	560	0.740	0.501	0.340	0.224	0.148	0.074	0.023	0.740	0.239	13.8
S797860	560	0.785	0.594	0.422	0.299	0.215	0.123	0.042	0.785	0.191	8.3

**RN 2000 EYRE HIGHWAY, SOUTH AUSTRALIA**  
**PAVEMENT REHABILITATION & WIDENING**  
**ROADBOND EN-1 AND LIME FLYASH STABILISATION**



S797858	560	0.859	0.554	0.382	0.274	0.191	0.098	0.031	0.859	0.305	10.4
S797856	560	0.722	0.456	0.312	0.238	0.165	0.095	0.035	0.722	0.266	10.8
S797854	560	0.797	0.527	0.384	0.282	0.200	0.115	0.042	0.797	0.270	8.9
S797852	560	0.881	0.567	0.394	0.277	0.193	0.112	0.045	0.881	0.314	9.1
S797850	560	0.866	0.595	0.408	0.278	0.190	0.103	0.043	0.866	0.271	9.9
S797848	560	0.756	0.512	0.381	0.284	0.205	0.123	0.044	0.756	0.244	8.3
S797846	560	0.744	0.426	0.305	0.223	0.161	0.095	0.038	0.744	0.318	10.8
S797844	560	0.712	0.511	0.358	0.270	0.198	0.120	0.044	0.712	0.201	8.5
S797842	560	0.914	0.607	0.467	0.366	0.276	0.158	0.061	0.914	0.307	6.5
S797840	560	0.627	0.452	0.359	0.271	0.205	0.126	0.046	0.627	0.175	8.1
S797838	560	0.577	0.414	0.315	0.244	0.190	0.126	0.057	0.577	0.163	8.1
S797836	560	0.625	0.441	0.332	0.246	0.187	0.117	0.046	0.625	0.184	8.8
S797834	560	0.572	0.404	0.322	0.237	0.184	0.117	0.051	0.572	0.168	8.8
S797832	560	0.585	0.445	0.347	0.246	0.190	0.118	0.047	0.585	0.140	8.7
S797830	560	0.533	0.384	0.307	0.249	0.185	0.110	0.044	0.533	0.149	9.3
S797828	560	0.452	0.354	0.279	0.223	0.172	0.104	0.042	0.452	0.098	9.8
S797826	560	0.393	0.278	0.226	0.185	0.144	0.089	0.036	0.393	0.115	11.5
S797824	560	0.402	0.312	0.246	0.177	0.142	0.090	0.040	0.402	0.090	11.4
S797822	560	0.471	0.371	0.308	0.246	0.192	0.124	0.048	0.471	0.100	8.3
S797820	560	0.380	0.314	0.224	0.187	0.146	0.095	0.038	0.380	0.066	10.8
S797818	560	0.401	0.273	0.208	0.168	0.127	0.081	0.032	0.401	0.128	12.6
S797816	560	0.435	0.301	0.229	0.193	0.145	0.091	0.040	0.435	0.134	11.3
S797814	560	0.316	0.237	0.206	0.178	0.143	0.100	0.042	0.316	0.079	10.2
S797812	560	0.490	0.336	0.249	0.196	0.144	0.089	0.035	0.490	0.154	11.5
S797810	560	0.454	0.322	0.236	0.181	0.134	0.085	0.034	0.454	0.132	12.0
S797808	560	0.395	0.278	0.225	0.155	0.122	0.074	0.031	0.395	0.117	13.8
S797806	560	0.368	0.265	0.206	0.166	0.119	0.076	0.029	0.368	0.103	13.5
S797804	560	0.261	0.177	0.145	0.116	0.089	0.058	0.024	0.261	0.084	17.7
S797802	560	0.256	0.149	0.122	0.100	0.080	0.055	0.025	0.256	0.107	18.6
S797800	560	0.325	0.246	0.205	0.176	0.136	0.080	0.027	0.325	0.079	12.8
S797798	560	0.289	0.237	0.203	0.175	0.142	0.092	0.031	0.289	0.052	11.1
S797796	560	0.280	0.253	0.235	0.118	0.101	0.066	0.029	0.280	0.027	15.5
S797794	560	0.271	0.248	0.142	0.120	0.100	0.065	0.029	0.271	0.023	15.8
S797792	560	0.372	0.293	0.213	0.170	0.128	0.083	0.032	0.372	0.079	12.3
S797790	560	0.290	0.253	0.221	0.181	0.103	0.076	0.031	0.290	0.037	13.5
S797788	560	0.334	0.274	0.235	0.192	0.151	0.091	0.035	0.334	0.060	11.3
S797786	560	0.372	0.280	0.221	0.176	0.113	0.074	0.029	0.372	0.092	13.8
S797784	560	0.347	0.281	0.229	0.147	0.116	0.066	0.028	0.347	0.066	15.5
S797782	560	0.354	0.260	0.204	0.158	0.114	0.066	0.025	0.354	0.094	15.5
S797780	560	0.369	0.239	0.199	0.145	0.110	0.069	0.031	0.369	0.130	14.8
S797778	560	0.388	0.240	0.204	0.170	0.131	0.084	0.030	0.388	0.148	12.2
S797776	560	0.344	0.274	0.227	0.183	0.145	0.087	0.031	0.344	0.070	11.8
S797774	560	0.385	0.333	0.200	0.156	0.122	0.083	0.034	0.385	0.052	12.3
S797772	560	0.433	0.307	0.269	0.210	0.128	0.077	0.030	0.433	0.126	13.3
No.		150	150	150	150	150	150	150	150	150	150
Minimum		0.244	0.149	0.122	0.096	0.076	0.052	0.02	0.244	0.023	6.479
Maximum		1.048	0.607	0.467	0.366	0.276	0.158	0.061	1.048	0.507	19.687
Average		0.5308	0.334	0.2366	0.1739	0.1278	0.0799	0.035	0.53077	0.19673	13.5001
Std. Dev.		0.1995	0.1056	0.0701	0.0501	0.0361	0.02	0.0073	0.19947	0.11211	2.8857
C.V		0.3758	0.3162	0.2961	0.2883	0.2822	0.2505	0.2097	0.37582	0.56987	0.21375
90% tile		0.7861	0.4692	0.3263	0.2381	0.174	0.1055	0.0443	0.7861	0.34024	9.80637
95% tile		0.8599	0.5083	0.3522	0.2566	0.1873	0.1129	0.047	0.8599	0.38172	8.73866
97.5% tile		0.9217	0.5411	0.3739	0.2722	0.1985	0.1191	0.0493	0.92174	0.41647	7.8441

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## APPENDIX 2

### RESILIENT MODULUS BACK CALCULATION FROM DEFLECTION USING “ELMOD” SOFTWARE

**RN 2000 EYRE HIGHWAY, SOUTH AUSTRALIA  
PAVEMENT REHABILITATION & WIDENING  
ROADBOND EN-1 AND LIME FLYASH STABILISATION**



**ELMOD FWD ANALYSIS**

"MEASURED" Modulus Calculations

FWD test 18/10 - 95                  Parameterfile: FLEXDOT

Project: EYRE HIGHWAY

File/Roadway: F951330 (R/N 2000 EYRE H/WY GRID PROJECT)

Stationing: %797772 to %798070

Layer no. 1 consist of gravel (2 - layer system)

Layer No. 1 is 300 mm thick

Design period: 10 years

Delta PSR = 2

Type                          Number/lane/year

AUSTRALIAN DUAL                  600

Season Temp(C) Percent of loads

1	30.0	33
2	20.0	50
3	30.0	17

Stationing	Calculated/measured deflection							Layer Modulus (MPa)	
	0	200	300	450	600	900	1500		
797.47	1.01	0.96	0.98	1.00	1.01	1.02	1.17	3248	134
797.472	1.00	0.99	1.07	1.06	1.09	1.02	1.27	2749	127
797.474	1.01	0.99	1.03	1.01	1.03	1.02	1.17	2548	127

**RN 2000 EYRE HIGHWAY, SOUTH AUSTRALIA**  
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797.476	1.01	0.95	0.98	0.97	1.06	1.02	1.20	3347	167
797.478	1.01	0.95	1.00	1.02	1.04	1.02	1.22	3403	147
797.48	1.01	0.94	0.97	0.98	1.09	1.02	1.26	3319	151
797.482	1.01	0.96	0.98	0.99	1.04	1.02	1.19	3217	148
797.484	1.01	0.95	0.99	0.99	1.05	1.02	1.24	3819	147
797.486	1.01	0.95	0.98	1.01	1.03	1.02	1.21	4124	167
797.488	1.01	0.97	0.99	1.00	1.03	1.02	1.20	3628	155
797.49	1.01	0.96	1.00	1.00	1.04	1.02	1.25	3755	138
797.492	1.01	0.95	0.98	0.99	1.02	1.02	1.26	3963	129
797.494	1.01	1.00	1.01	1.03	1.03	1.02	1.20	3426	148
797.496	1.01	0.97	1.01	1.01	1.05	1.02	1.25	3349	136
797.498	1.01	0.97	0.99	1.01	1.03	1.02	1.22	3753	147
797.5	1.00	0.94	0.99	1.01	1.04	1.02	1.24	3365	136
797.502	0.99	0.81	0.88	0.90	0.99	1.02	1.23	5006	155
797.504	1.01	0.96	1.00	1.00	1.03	1.02	1.25	3198	118
797.506	1.00	0.97	1.00	1.01	1.05	1.02	1.25	2958	123
797.508	1.01	0.98	1.00	1.01	1.03	1.02	1.30	2951	98
797.51	1.00	0.97	0.99	1.00	1.03	1.02	1.24	2810	93
797.512	1.01	0.95	0.95	0.99	1.00	1.02	1.19	2827	80
797.514	1.01	0.95	0.96	0.97	1.01	1.02	1.15	3315	98
797.516	1.00	1.00	1.03	1.03	1.06	1.02	1.33	2706	95
797.518	1.01	0.99	1.00	1.01	1.03	1.02	1.26	2486	83
797.52	1.00	0.95	0.98	0.99	1.02	1.02	1.28	2711	92
797.522	1.00	1.03	1.05	1.06	1.06	1.02	1.32	2328	87
797.524	1.00	1.00	1.03	1.03	1.04	1.02	1.28	2407	90
797.526	1.01	1.00	1.01	1.02	1.03	1.02	1.28	2293	82
797.528	1.01	0.96	0.98	1.00	1.02	1.02	1.27	2950	94
797.53	1.00	1.00	0.99	1.02	1.04	1.02	1.28	2628	93
797.532	1.01	0.98	1.01	1.02	1.04	1.02	1.31	2881	92
797.534	1.01	0.95	0.99	0.99	1.03	1.02	1.21	2931	98
797.536	1.00	0.96	0.98	1.00	1.03	1.02	1.21	3367	126
797.538	1.01	0.96	1.00	1.00	1.03	1.02	1.22	3303	125
797.54	1.00	0.99	1.01	1.03	1.03	1.02	1.28	3751	113
797.542	1.01	0.99	1.02	1.01	1.04	1.02	1.18	3617	155
797.544	1.00	1.00	1.03	1.04	1.07	1.02	1.24	3717	169
797.546	1.00	0.97	1.03	1.03	1.04	1.02	1.18	3807	177
797.548	1.00	0.95	1.01	1.03	1.06	1.02	1.19	3833	190
797.55	1.01	0.89	0.96	1.01	1.04	1.02	1.19	5096	217
797.552	1.01	0.98	1.02	0.99	1.07	1.02	1.13	3652	264
797.554	0.99	0.88	0.88	0.92	0.99	1.02	1.04	3699	268
797.556	1.00	0.94	0.95	1.00	1.04	1.02	1.17	4397	227

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797.558	1.00	0.87	0.93	0.98	1.01	1.02	1.16	5148	219
797.56	0.99	0.91	0.94	0.97	1.04	1.02	1.09	4149	240
797.562	1.01	0.98	1.02	1.05	1.07	1.02	1.17	3722	219
797.564	1.01	0.96	0.97	1.00	1.02	1.02	1.08	3638	269
797.566	1.00	1.00	1.03	1.04	1.09	1.02	1.12	2398	235
797.568	1.01	0.95	0.99	1.03	1.08	1.02	1.15	2478	196
797.57	1.01	0.99	1.04	1.05	1.09	1.02	1.15	2760	231
797.572	1.01	1.01	1.06	1.05	1.06	1.02	1.13	2854	212
797.574	1.00	1.00	1.03	1.03	1.08	1.02	1.17	2926	200
797.576	1.00	0.99	1.04	1.03	1.06	1.02	1.15	3579	225
797.578	1.00	0.97	1.02	1.03	1.08	1.02	1.16	3685	231
797.58	1.01	0.96	1.03	1.01	1.03	1.02	1.03	3010	235
797.582	1.01	0.94	1.00	1.01	1.05	1.02	1.14	4030	215
797.584	1.01	0.91	0.95	0.95	1.01	1.02	1.11	4295	223
797.586	1.01	0.97	0.99	1.04	1.07	1.02	1.17	3616	219
797.588	1.01	0.92	0.98	1.00	1.05	1.02	1.15	3834	217
797.59	1.01	0.96	1.00	1.02	1.02	1.02	1.08	3441	243
797.592	1.01	0.93	0.98	0.99	1.04	1.02	1.15	3967	225
797.594	1.00	1.05	1.07	1.08	1.08	1.02	1.16	3194	218
797.596	1.00	0.96	1.01	1.03	1.06	1.02	1.17	3949	229
797.598	1.00	0.96	0.98	1.03	1.08	1.02	1.18	3849	227
797.6	1.01	1.02	1.05	1.05	1.06	1.02	1.15	3637	242
797.602	1.01	0.94	0.99	1.01	1.05	1.02	1.14	4022	251
797.604	1.00	0.95	0.94	0.95	1.01	1.02	1.05	3567	269
797.606	1.01	0.93	0.97	0.99	1.05	1.02	1.19	4834	241
797.608	1.01	0.96	1.01	1.02	1.03	1.02	1.13	4238	245
797.61	1.01	1.00	1.03	1.04	1.05	1.02	1.14	3993	247
797.612	1.01	0.95	0.97	1.00	1.04	1.02	1.15	4402	240
797.614	1.01	0.95	0.99	1.01	1.02	1.02	1.13	4492	230
797.616	1.01	0.93	0.99	1.00	1.03	1.02	1.22	5346	209
797.618	1.01	0.92	0.98	1.00	1.02	1.02	1.15	4427	209
797.62	1.01	0.92	0.98	1.00	1.07	1.02	1.21	4385	203
797.622	1.01	0.94	0.96	1.00	1.05	1.02	1.20	4696	204
797.624	1.00	0.95	1.00	1.01	1.04	1.02	1.18	4488	198
797.626	1.00	0.95	0.99	1.03	1.07	1.02	1.25	4733	188
797.628	1.00	0.98	1.03	1.01	1.03	1.02	1.17	3994	175
797.63	1.01	0.94	0.97	0.98	1.01	1.02	1.15	4054	172
797.632	1.01	0.94	0.99	0.99	1.04	1.02	1.17	3655	170
797.634	1.01	0.92	0.97	1.00	1.02	1.02	1.17	4167	172
797.636	1.01	0.94	0.97	0.99	1.01	1.02	1.16	4296	169
797.638	1.00	0.98	1.00	1.00	1.04	1.02	1.20	3691	156

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797.64	1.01	0.97	1.00	1.00	1.03	1.02	1.13	4065	156
797.642	1.01	0.90	0.94	0.95	0.98	1.02	1.14	4803	162
797.644	1.00	0.98	1.00	1.02	1.05	1.02	1.18	3561	166
797.646	1.00	0.94	0.98	0.99	1.03	1.02	1.19	4157	163
797.648	1.00	0.95	0.97	1.00	1.04	1.02	1.20	4519	177
797.65	1.00	0.95	1.01	1.01	1.03	1.02	1.16	4091	186
797.652	1.00	0.93	0.98	0.98	1.02	1.02	1.19	4854	182
797.654	1.00	0.96	1.01	1.00	1.06	1.02	1.21	4140	181
797.656	1.01	0.96	0.99	1.00	1.03	1.02	1.12	3841	185
797.658	1.00	0.95	1.01	1.02	1.05	1.02	1.17	3455	170
797.66	1.00	0.96	0.99	1.02	1.04	1.02	1.17	3857	183
797.662	1.00	0.98	1.00	1.04	1.06	1.02	1.21	4274	191
797.664	1.01	0.93	0.95	0.98	1.02	1.02	1.18	4641	186
797.666	1.01	0.93	0.96	0.95	1.01	1.02	1.10	3829	206
797.668	1.00	0.96	1.00	1.01	1.05	1.02	1.18	3780	182
797.67	1.01	0.97	1.00	1.03	1.06	1.02	1.18	3413	176
797.672	1.01	0.97	1.00	1.03	1.07	1.02	1.19	3110	165
797.674	1.00	0.92	0.98	0.99	1.03	1.02	1.18	4342	176
797.676	1.01	0.93	0.98	0.99	1.03	1.02	1.18	4198	185
797.678	1.01	0.94	0.97	1.00	1.03	1.02	1.17	3878	180
797.68	1.01	0.97	1.03	1.04	1.08	1.02	1.19	2785	169
797.682	1.01	0.98	1.02	1.05	1.08	1.02	1.18	2509	150
797.684	1.01	0.97	1.03	1.04	1.07	1.02	1.15	2171	149
797.686	1.01	1.03	1.06	1.06	1.09	1.02	1.19	2289	149
797.688	1.00	0.99	1.04	1.06	1.07	1.02	1.16	2489	160
797.69	1.00	1.02	1.06	1.07	1.10	1.02	1.18	2206	169
797.692	1.01	0.97	1.02	1.03	1.09	1.02	1.22	2487	137
797.694	1.00	0.98	1.03	1.05	1.06	1.02	1.18	2745	151
797.696	1.00	0.98	1.02	1.04	1.06	1.02	1.18	2904	148
797.698	1.00	0.93	0.97	1.02	1.05	1.02	1.26	4426	152
797.7	1.00	0.96	1.00	1.01	1.04	1.02	1.17	3478	155
797.702	1.01	0.96	0.99	1.00	1.06	1.02	1.21	3170	144
797.704	1.00	0.95	0.97	0.98	1.02	1.02	1.18	3303	127
797.706	1.00	0.94	0.97	0.99	1.02	1.02	1.21	3617	118
797.708	1.00	0.97	1.02	1.03	1.05	1.02	1.22	2965	128
797.71	1.01	0.97	1.03	1.05	1.06	1.02	1.23	2821	123
797.712	1.01	0.96	0.99	1.01	1.02	1.02	1.22	3127	113
797.714	1.00	0.97	1.00	1.01	1.04	1.02	1.20	3096	129
797.716	1.01	0.93	0.98	0.99	1.03	1.02	1.15	3201	155
797.718	1.00	0.97	0.99	1.02	1.02	1.02	1.22	3431	117
797.72	1.00	0.97	1.00	1.01	1.03	1.02	1.22	3374	122

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797.722	1.01	0.99	1.01	1.02	1.03	1.02	1.17	2850	116
797.724	1.00	0.99	1.01	1.00	1.02	1.02	1.14	2768	126
797.726	1.01	0.99	1.01	1.04	1.06	1.02	1.25	3357	140
797.728	1.01	0.97	1.00	1.01	1.04	1.02	1.25	3448	133
797.73	1.01	0.92	0.96	0.97	1.02	1.02	1.20	4445	168
797.732	1.01	0.99	1.04	1.04	1.08	1.02	1.23	3621	181
797.734	1.00	0.92	0.98	1.00	1.06	1.02	1.23	4352	206
797.736	1.01	0.97	1.00	1.00	1.02	1.02	1.27	3904	125
797.738	1.01	0.94	0.99	0.98	1.00	1.02	1.16	4038	141
797.74	1.01	0.96	1.00	1.01	1.04	1.02	1.23	3946	139
797.742	1.01	0.90	0.92	0.95	0.99	1.02	1.17	5145	147
797.744	1.01	0.98	1.01	1.01	1.02	1.02	1.17	3860	128
797.746	1.01	0.94	0.97	0.98	1.01	1.02	1.15	4701	130
797.748	1.01	0.96	0.99	0.97	1.02	1.02	1.18	3909	149
797.75	1.00	0.96	0.99	1.00	1.01	1.02	1.22	4014	130
797.752	1.00	1.01	1.03	1.04	1.05	1.02	1.27	3640	127
797.754	1.00	0.94	0.99	0.98	1.02	1.02	1.23	3819	126
797.756	1.00	0.94	0.96	0.98	1.01	1.02	1.21	4244	141
797.758	1.00	1.02	1.02	1.03	1.06	1.02	1.24	4000	154
797.76	1.00	0.97	0.99	0.99	1.02	1.02	1.23	4405	147
797.762	1.00	0.96	0.98	1.00	1.02	1.02	1.23	4365	142
797.764	1.00	0.96	0.99	0.99	1.02	1.02	1.21	3899	133
797.766	1.00	0.96	0.99	1.01	1.03	1.02	1.21	3845	143
797.768	1.01	0.97	0.98	0.97	1.03	1.02	1.26	3937	133
797.77	1.01	0.99	1.03	1.04	1.07	1.02	1.24	2596	117
797.772	1.00	0.98	1.02	1.04	1.07	1.02	1.27	1915	88
797.774	1.01	0.96	0.99	0.98	1.01	1.02	1.24	3345	110
797.776	1.01	0.98	0.98	0.99	1.02	1.02	1.29	3719	112
797.778	1.00	0.97	1.00	1.00	1.02	1.02	1.28	3242	106
797.78	1.00	0.98	1.03	1.04	1.07	1.02	1.25	2465	111
797.782	1.00	1.00	1.03	1.04	1.06	1.02	1.29	2642	107
797.784	1.00	0.96	1.00	1.01	1.04	1.02	1.26	2901	109
797.786	1.00	1.06	1.10	1.09	1.10	1.02	1.30	1906	95
797.788	1.01	1.02	1.04	1.03	1.04	1.02	1.28	2720	95
797.79	1.01	0.96	0.97	0.98	1.01	1.02	1.28	3834	112
797.792	1.01	0.97	0.99	1.02	1.02	1.02	1.25	3216	102
797.794	1.01	0.97	0.99	0.99	1.03	1.02	1.26	3576	125
797.796	1.01	1.01	1.01	1.01	1.02	1.02	1.22	2776	103
797.798	1.00	0.98	1.00	1.00	1.02	1.02	1.24	3244	108
797.8	1.00	1.02	1.02	1.04	1.04	1.02	1.22	3111	122
797.802	1.01	0.98	0.99	1.01	1.03	1.02	1.16	3372	167

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797.804	1.01	0.98	1.02	1.04	1.05	1.02	1.21	2209	109
797.806	1.01	0.99	1.03	1.05	1.07	1.02	1.22	1769	93
797.808	0.99	1.04	1.08	1.09	1.11	1.02	1.26	1197	71
797.81	1.00	1.10	1.16	1.15	1.14	1.02	1.26	901	68
797.812	0.99	0.94	0.98	1.01	1.02	1.02	1.28	2043	74
797.814	1.00	1.02	1.07	1.08	1.09	1.02	1.24	1709	87
797.816	0.99	1.08	1.13	1.10	1.11	1.02	1.22	1143	81
797.818	1.00	0.95	0.99	0.99	1.00	1.02	1.21	1998	83
797.82	1.01	0.97	1.01	1.00	1.03	1.02	1.24	2307	91
797.822	1.00	0.97	0.98	1.00	1.03	1.02	1.24	2595	88
797.824	1.00	1.02	1.03	1.04	1.04	1.02	1.27	2345	92
797.826	1.01	0.96	0.99	1.01	1.05	1.02	1.26	2429	93
797.828	1.00	0.98	1.00	1.02	1.04	1.02	1.30	2319	77
797.83	1.00	0.97	0.99	1.00	1.03	1.02	1.30	2278	75
797.832	1.00	0.98	1.01	1.01	1.03	1.02	1.23	1696	66
797.834	1.01	1.02	1.04	1.06	1.07	1.02	1.24	1484	70
797.836	1.01	0.97	1.00	1.00	1.02	1.02	1.28	2248	68
797.838	1.00	1.04	1.06	1.06	1.07	1.02	1.24	1224	60
797.84	1.00	0.99	1.03	1.05	1.07	1.02	1.29	1384	58
797.842	1.00	1.01	1.07	1.09	1.09	1.02	1.27	980	47
797.844	1.00	1.07	1.11	1.13	1.13	1.02	1.30	774	44
797.846	1.00	1.02	1.09	1.10	1.11	1.02	1.28	725	44
797.848	0.99	0.98	1.06	1.06	1.10	1.02	1.17	598	51
797.85	0.99	1.02	1.05	1.07	1.09	1.02	1.19	566	43
797.852	1.00	1.08	1.15	1.13	1.14	1.02	1.27	527	38
797.854	1.00	1.08	1.16	1.16	1.16	1.02	1.20	354	41
797.856	1.00	1.11	1.19	1.18	1.14	1.01	1.17	287	43
797.858	1.00	1.03	1.15	1.19	1.18	1.02	1.27	393	36
797.86	1.00	1.10	1.23	1.24	1.21	1.02	1.26	319	34
797.862	1.01	1.12	1.22	1.21	1.20	1.01	1.26	304	32
797.864	1.00	1.03	1.16	1.17	1.19	1.02	1.24	381	39
797.866	1.00	1.00	1.11	1.13	1.16	1.02	1.29	511	38
797.868	0.99	1.18	1.28	1.23	1.20	1.02	1.28	494	46
797.87	1.00	1.04	1.08	1.08	1.10	1.02	1.40	1620	68
797.872	1.00	0.97	1.00	0.98	1.03	1.02	1.35	1898	61
797.874	1.00	0.96	1.00	1.02	1.06	1.02	1.19	1419	80
797.876	1.00	0.95	0.99	1.01	1.03	1.02	1.34	2312	74
797.878	1.01	0.97	1.02	1.03	1.05	1.02	1.26	2284	90
797.88	1.00	1.00	1.07	1.08	1.09	1.02	1.25	1905	107
797.882	1.00	1.02	1.08	1.10	1.11	1.02	1.26	1639	91
797.884	1.00	1.12	1.13	1.12	1.14	1.02	1.21	1358	118

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ROADBOND EN-1 AND LIME FLYASH STABILISATION**



797.886	1.00	1.10	1.17	1.18	1.15	1.02	1.26	1493	114
797.888	0.99	1.10	1.14	1.14	1.15	1.02	1.27	1511	105
797.89	1.00	1.03	1.09	1.07	1.12	1.02	1.24	1910	122
797.892	1.01	0.95	1.01	0.98	1.06	1.02	1.12	2050	158
797.894	0.99	1.05	1.08	1.09	1.09	1.02	1.20	2147	142
797.896	1.01	1.02	1.06	1.05	1.08	1.02	1.21	2578	141
797.898	1.00	1.00	1.05	1.05	1.09	1.02	1.26	2999	152
797.9	1.01	1.01	1.06	1.06	1.08	1.02	1.21	2436	136
797.902	1.01	0.98	1.01	1.02	1.05	1.02	1.16	2798	156
797.904	1.01	0.97	1.02	1.04	1.06	1.02	1.24	2932	125
797.906	1.00	0.97	1.01	1.01	1.04	1.02	1.18	3096	145
797.908	1.01	1.01	1.04	1.07	1.09	1.02	1.26	3040	142
797.91	1.01	1.03	1.06	1.06	1.07	1.02	1.24	2463	117
797.912	1.01	0.99	1.03	1.04	1.07	1.02	1.25	2928	118
797.914	1.01	0.99	1.03	1.05	1.05	1.02	1.19	2853	129
797.916	1.01	1.02	1.06	1.06	1.08	1.02	1.20	2511	142
797.918	1.01	1.02	1.04	1.08	1.07	1.02	1.22	2531	124
797.92	1.01	0.95	1.02	1.04	1.06	1.02	1.13	2140	151
797.922	1.00	0.92	0.98	0.95	1.05	1.02	1.14	2420	154
797.924	1.01	0.93	0.98	1.04	1.07	1.02	1.21	2578	122
797.926	1.00	0.97	1.03	1.03	1.06	1.02	1.24	2414	97
797.928	1.01	0.93	0.99	1.02	1.07	1.02	1.19	2396	120
797.93	1.01	0.99	1.04	1.05	1.06	1.02	1.17	2444	135
797.932	1.01	1.03	1.07	1.07	1.08	1.02	1.15	2007	157
797.934	1.01	1.03	1.07	1.08	1.10	1.02	1.17	1826	142
797.936	1.00	1.02	1.11	1.13	1.13	1.02	1.17	1123	123
797.938	1.00	1.07	1.14	1.17	1.11	1.02	1.14	667	146
797.94	1.00	1.08	1.15	1.13	1.12	1.02	1.16	864	144
797.942	1.00	0.96	1.03	1.05	1.10	1.02	1.13	1413	163
797.944	1.00	0.92	1.01	1.06	1.10	1.02	1.13	1382	163
797.946	1.00	0.95	1.03	1.09	1.14	1.02	1.25	1988	138
797.948	1.01	0.93	1.04	1.10	1.09	1.02	1.15	1749	149
797.95	1.01	0.94	1.03	1.06	1.12	1.02	1.21	2002	145
797.952	1.00	1.09	1.11	1.14	1.12	1.02	1.15	1103	148
797.954	1.00	1.02	1.06	1.08	1.09	1.02	1.16	1990	154
797.956	1.00	1.00	1.04	1.04	1.05	1.02	1.19	2377	112
797.958	1.00	0.97	0.98	1.02	1.03	1.02	1.20	2978	109
797.96	1.01	0.99	1.00	1.02	1.04	1.02	1.16	2998	108
797.962	1.01	1.03	1.06	1.07	1.08	1.02	1.13	2751	110
797.964	1.01	0.99	1.00	1.02	1.05	1.02	1.09	3009	105
797.966	1.00	0.96	1.00	1.02	1.03	1.02	1.19	3358	131

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797.968	1.00	1.07	1.18	1.20	1.15	1.01	1.15	392	133
797.97	1.00	0.97	1.10	1.10	1.08	1.01	1.11	205	82
797.972	1.00	0.99	1.15	1.10	1.06	1.01	1.09	184	77
797.974	1.00	0.92	1.08	1.12	1.06	1.01	1.09	213	73
797.976	1.00	0.99	1.07	1.09	1.06	1.01	1.08	183	62
797.978	1.00	0.88	1.02	1.07	1.06	1.01	1.09	186	64
797.98	1.00	0.88	1.03	1.02	1.04	1.00	1.06	169	73
797.982	1.00	1.00	1.14	1.14	1.10	1.01	1.13	181	63
797.984	1.00	0.96	1.08	1.10	1.09	1.01	1.12	158	54
797.986	0.99	0.99	1.09	1.11	1.08	1.01	1.10	165	44
797.988	1.00	0.85	1.00	1.04	1.04	1.01	1.06	179	55
797.99	1.00	0.99	1.05	1.05	1.04	1.01	1.05	168	46
797.992	1.00	0.95	1.08	1.12	1.09	1.01	1.12	184	47
797.994	1.00	1.00	1.08	1.08	1.05	1.01	1.07	139	47
797.996	1.00	0.97	1.08	1.12	1.08	1.01	1.10	172	46
797.998	0.99	1.02	1.12	1.10	1.05	1.01	1.07	149	45
798	1.00	1.09	1.19	1.18	1.10	1.01	1.14	168	47
798.002	1.00	1.05	1.19	1.18	1.09	1.01	1.13	192	52
798.004	1.00	1.06	1.17	1.11	1.07	1.01	1.09	171	56
798.006	1.00	0.99	1.14	1.14	1.09	1.01	1.12	214	61
798.008	1.00	1.00	1.14	1.13	1.07	1.01	1.10	170	48
798.01	1.00	1.05	1.10	1.07	1.04	1.01	1.05	163	56
798.012	1.00	1.03	1.14	1.14	1.08	1.01	1.11	226	60
798.014	0.99	0.98	1.11	1.11	1.06	1.01	1.09	209	59
798.016	0.99	1.02	1.16	1.13	1.08	1.01	1.12	184	71
798.018	1.00	0.98	1.10	1.12	1.09	1.01	1.13	231	69
798.02	0.99	1.08	1.13	1.11	1.07	1.01	1.10	170	58
798.022	0.99	0.99	1.12	1.11	1.08	1.01	1.11	203	61
798.024	1.00	0.91	1.07	1.12	1.08	1.01	1.11	261	77
798.026	1.00	0.78	0.97	1.08	1.08	1.01	1.11	309	86
798.028	1.00	0.79	0.98	1.09	1.09	1.01	1.12	291	72
798.03	1.00	1.01	1.11	1.10	1.06	1.01	1.08	235	81
798.032	1.00	0.96	1.05	1.04	1.04	1.01	1.06	207	77
798.034	1.00	1.04	1.09	1.11	1.06	1.01	1.09	269	78
798.036	1.00	0.99	1.07	1.05	1.03	1.01	1.05	248	93
798.038	1.00	0.94	1.00	1.01	1.03	1.00	1.05	198	105
798.04	0.99	0.89	1.00	1.04	1.06	1.01	1.09	250	142
798.042	1.00	0.88	0.98	0.97	1.01	0.99	1.04	169	178
798.044	1.00	0.84	0.94	0.99	1.02	1.00	1.05	214	130
798.046	0.99	0.82	1.00	1.06	1.05	1.01	1.08	302	125
798.048	0.99	0.84	0.99	1.01	1.04	1.00	1.06	245	133

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798.05	1.00	0.91	1.07	1.07	1.05	1.00	1.08	202	112
798.052	1.00	0.93	1.08	1.06	1.09	1.00	1.13	186	117
798.054	0.99	0.85	1.01	1.00	1.04	1.01	1.07	238	126
798.056	1.00	0.89	1.04	1.06	1.05	1.01	1.08	256	103
798.058	0.99	1.02	1.14	1.11	1.07	1.01	1.10	253	85
798.06	1.00	0.90	1.03	1.04	1.04	1.01	1.06	218	77
798.062	1.00	0.89	1.02	1.05	1.04	1.01	1.06	298	108
798.064	1.00	0.92	1.08	1.08	1.06	1.01	1.09	274	96
798.066	1.00	1.07	1.21	1.18	1.12	1.01	1.16	245	90
798.068	1.00	0.95	1.10	1.12	1.08	1.01	1.10	286	83
798.07	1.00	0.93	1.07	1.09	1.06	1.01	1.09	260	98

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**ELMOD FWD ANALYSIS**

"MEASURED" Modulus Calculations

FWD test 1/2 - 96      Parameterfile: FLEXDOT

Project: EYRE  
HIGHWAY

File/Roadway: F960030 (R/No 2000 EYRE H/WY GRID PROJECT)

Stationing: %797772 to %798070

Layer no. 1 consist of gravel (2 - layer system)

Layer No. 1 is 300 mm thick

Design period: 10  
years

Delta PSR = 2

Type                  Number/lane/year

600                  AUSTRALIAN DUAL

Season Temp(C) Percent of loads

1	30.0	33
2	20.0	50
3	30.0	17

Calculated/measured deflection

Layer Modulus  
(MPa)

Stationing	Distances							E1	E2
	0	200	300	600	900	1200	1500		
CH797772	1.00	1.04	1.13	1.06	1.00	1.20	2.59	2385	64
CH797774	1.00	1.06	1.15	1.06	1.02	1.14	2.21	3162	92

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CH797776	1.00	1.02	1.11	1.04	1.00	1.15	2.33	3367	88
CH797778	1.01	1.09	1.19	1.11	1.02	1.18	2.36	1877	73
CH797780	1.01	1.07	1.21	1.11	1.02	1.17	2.30	1723	75
CH797782	1.00	1.10	1.21	1.08	1.02	1.19	2.50	1797	63
CH797784	1.00	1.10	1.24	1.09	1.02	1.19	2.35	1969	69
CH797786	1.00	1.09	1.21	1.08	1.02	1.18	2.70	1721	63
CH797788	1.01	1.09	1.18	1.08	1.02	1.13	2.31	2073	67
CH797790	1.00	1.07	1.15	1.06	1.02	1.16	2.23	2852	80
CH797792	1.01	1.08	1.19	1.08	1.02	1.16	2.24	1962	72
CH797794	1.01	1.05	1.16	1.06	1.02	1.14	2.22	2652	94
CH797796	1.01	1.06	1.15	1.06	1.02	1.16	2.32	2536	77
CH797798	1.00	1.08	1.13	1.10	1.02	1.10	1.97	2526	83
CH797800	1.01	1.11	1.21	1.10	1.02	1.16	2.11	1965	80
CH797802	1.01	1.09	1.20	1.09	1.02	1.15	1.84	3089	123
CH797804	1.00	1.06	1.17	1.10	1.02	1.17	2.19	2563	97
CH797806	1.00	1.09	1.21	1.11	1.02	1.17	2.26	1872	78
CH797808	0.99	1.14	1.28	1.14	1.02	1.20	2.48	1324	57
CH797810	1.00	1.06	1.23	1.11	1.02	1.17	2.38	1209	58
CH797812	1.01	1.05	1.17	1.10	1.02	1.21	2.33	1960	60
CH797814	1.01	1.09	1.20	1.10	1.02	1.08	1.99	1906	69
CH797816	1.00	1.10	1.21	1.11	1.02	1.18	2.19	1591	67
CH797818	1.00	1.05	1.16	1.03	1.02	1.13	2.13	1758	67
CH797820	1.00	1.02	1.15	1.05	1.02	1.16	2.21	1942	63
CH797822	1.01	1.10	1.19	1.08	1.02	1.16	2.17	1632	59
CH797824	1.00	1.10	1.20	1.07	1.02	1.20	2.21	1881	58
CH797826	1.01	1.12	1.27	1.12	1.02	1.17	2.45	1393	63
CH797828	0.99	1.06	1.17	1.07	1.02	1.21	2.30	1676	46
CH797830	1.01	1.09	1.17	1.06	1.02	1.14	2.37	1287	53
CH797832	1.01	1.05	1.18	1.10	1.02	1.20	2.40	1362	46
CH797834	1.01	1.00	1.15	1.12	1.02	1.19	2.15	1421	52
CH797836	1.01	1.07	1.13	1.04	1.02	1.18	2.45	1795	49
CH797838	0.99	1.09	1.29	1.11	1.02	1.20	2.37	1065	41
CH797840	1.00	1.13	1.23	1.09	1.02	1.16	2.30	1059	45
CH797842	1.00	1.06	1.24	1.10	1.02	1.12	2.05	656	41
CH797844	0.99	1.13	1.25	1.12	1.02	1.18	2.53	765	35
CH797846	1.00	1.15	1.37	1.20	1.02	1.26	2.43	742	35
CH797848	1.00	1.21	1.43	1.23	1.02	1.24	2.33	578	34
CH797850	1.00	1.15	1.39	1.19	1.02	1.24	2.13	620	31
CH797852	1.00	1.13	1.30	1.16	1.02	1.23	2.26	748	33
CH797854	1.00	1.14	1.32	1.19	1.02	1.23	2.63	594	31
CH797856	0.99	1.28	1.51	1.23	1.02	1.21	2.23	476	35

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CH797858	1.00	1.21	1.43	1.24	1.02	1.25	3.05	516	31
CH797860	1.00	1.08	1.34	1.18	1.02	1.18	2.51	536	37
CH797862	0.99	1.20	1.47	1.27	1.02	1.28	3.23	536	30
CH797864	1.00	1.17	1.38	1.20	1.02	1.19	2.35	530	36
CH797866	0.99	1.15	1.31	1.14	1.02	1.19	2.42	704	34
CH797868	0.99	1.16	1.33	1.18	1.02	1.21	2.57	847	42
CH797870	1.00	1.19	1.33	1.17	1.02	1.23	2.89	1572	66
CH797872	1.01	1.10	1.19	1.08	1.02	1.20	2.94	1579	47
CH797874	1.00	1.08	1.20	1.11	1.02	1.18	2.32	1540	60
CH797876	1.01	1.04	1.12	1.07	1.02	1.17	2.85	1730	57
CH797878	1.01	1.09	1.21	1.12	1.02	1.16	2.15	1848	67
CH797880	0.99	1.09	1.23	1.14	1.02	1.21	2.45	2026	83
CH797882	1.01	1.03	1.17	1.12	1.02	1.15	2.29	1662	80
CH797884	1.00	1.05	1.20	1.14	1.02	1.19	2.27	1987	93
CH797886	0.99	1.08	1.27	1.15	1.02	1.20	2.69	2068	92
CH797888	1.01	1.12	1.27	1.12	1.02	1.14	2.19	1552	88
CH797890	0.99	1.12	1.25	1.14	1.02	1.16	2.38	1693	95
CH797892	1.00	1.18	1.30	1.17	1.02	1.19	2.97	1901	102
CH797894	1.01	1.07	1.24	1.12	1.02	1.16	2.29	2486	115
CH797896	1.01	1.13	1.26	1.12	1.02	1.14	2.07	2053	105
CH797898	1.01	1.04	1.15	1.09	1.02	1.16	2.27	3178	115
CH797900	1.01	1.19	1.28	1.14	1.02	1.17	2.07	2019	101
CH797902	1.01	1.07	1.18	1.08	1.02	1.13	2.03	3221	119
CH797904	1.01	1.13	1.25	1.12	1.02	1.12	2.11	2126	101
CH797906	1.01	1.16	1.26	1.11	1.02	1.11	1.96	2612	113
CH797908	1.01	1.09	1.19	1.09	1.02	1.15	1.95	2744	111
CH797910	1.01	1.11	1.20	1.08	1.02	1.12	2.05	2706	106
CH797912	1.01	1.12	1.23	1.11	1.02	1.08	1.80	2658	96
CH797914	1.00	1.06	1.15	1.07	1.00	1.06	1.70	3638	94
CH797916	1.01	1.07	1.17	1.08	1.02	1.07	1.82	3055	113
CH797918	1.01	1.12	1.21	1.09	1.02	1.09	1.93	2548	105
CH797920	1.01	1.05	1.17	1.11	1.02	1.08	1.62	2917	114
CH797922	1.01	1.06	1.16	1.07	1.02	1.07	1.69	3242	109
CH797924	1.01	1.06	1.18	1.08	1.02	1.09	1.66	2805	93
CH797926	1.01	1.10	1.18	1.07	1.02	1.10	1.74	2153	76
CH797928	1.01	1.11	1.24	1.12	1.02	1.09	1.79	2264	86
CH797930	1.01	1.03	1.19	1.08	1.02	1.13	1.96	2528	101
CH797932	1.01	1.05	1.24	1.14	1.02	1.10	1.79	2499	122
CH797934	1.01	1.09	1.25	1.12	1.02	1.14	2.00	1998	102
CH797936	1.00	1.21	1.33	1.18	1.02	1.11	1.79	1319	105
CH797938	0.99	1.50	1.64	1.21	1.02	1.11	1.57	474	110

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CH797940	1.00	1.09	1.29	1.17	1.02	1.13	1.72	1340	123
CH797942	1.00	1.20	1.40	1.19	1.02	1.14	1.69	1200	124
CH797944	1.00	1.08	1.37	1.16	1.02	1.13	1.95	1341	122
CH797946	0.99	1.47	1.61	1.17	1.02	1.13	1.93	462	118
CH797948	1.01	1.18	1.29	1.14	1.02	1.13	1.70	1547	121
CH797950	0.99	1.60	1.68	1.15	1.01	1.10	1.74	353	110
CH797952	0.99	1.27	1.40	1.18	1.02	1.13	1.79	873	110
CH797954	0.99	1.47	1.55	1.19	1.02	1.14	1.65	725	116
CH797956	1.01	1.14	1.26	1.12	1.02	1.12	1.86	1832	85
CH797958	1.01	1.08	1.18	1.07	1.02	1.09	1.69	2239	81
CH797960	1.00	1.05	1.17	1.09	1.02	1.05	1.69	2596	77
CH797962	0.99	1.45	1.52	1.23	1.02	1.04	1.58	1076	78
CH797964	1.01	1.10	1.14	1.07	0.98	1.16	1.61	3294	68
CH797966	1.01	1.07	1.15	1.05	0.99	1.11	1.69	3876	91
CH797968	0.99	1.17	1.59	1.25	1.02	1.04	1.61	429	99
CH797970	1.00	1.22	1.54	1.23	1.02	1.16	1.92	395	62
CH797972	1.00	1.20	1.54	1.20	1.02	1.14	1.90	434	65
CH797974	1.00	1.16	1.51	1.05	1.01	1.04	1.72	353	60
CH797976	1.00	1.24	1.60	1.22	1.02	1.16	1.91	321	53
CH797978	1.00	1.18	1.52	1.22	1.02	1.16	2.10	407	59
CH797980	1.00	1.22	1.53	1.25	1.02	1.18	1.82	378	56
CH797982	1.00	1.44	1.77	1.25	1.02	1.18	1.97	299	50
CH797984	1.00	1.91	2.02	1.24	1.00	1.17	1.64	68	37
CH797986	1.00	1.31	1.63	1.21	1.02	1.15	1.85	285	51
CH797988	1.00	2.04	2.05	1.17	1.00	1.13	1.68	66	39
CH797990	1.00	1.21	1.59	1.23	1.02	1.16	1.79	294	42
CH797992	1.00	1.29	1.60	1.26	1.02	1.19	1.96	324	43
CH797994	1.00	1.28	1.60	1.24	1.02	1.17	1.82	324	46
CH797996	1.00	1.17	1.51	1.22	1.02	1.16	1.84	442	58
CH797998	1.00	1.26	1.61	1.24	1.02	1.17	1.91	373	59
CH798000	1.00	1.20	1.58	1.32	1.02	1.32	1.88	546	32
CH798002	1.00	1.28	1.59	1.27	1.02	1.19	2.06	364	40
CH798004	1.00	1.32	1.59	1.26	1.02	1.19	2.12	402	44
CH798006	1.00	1.22	1.46	1.26	1.02	1.19	2.26	528	56
CH798008	1.00	1.20	1.42	1.19	1.02	1.18	2.04	509	39
CH798010	1.00	1.13	1.34	1.25	1.02	1.18	2.09	370	55
CH798012	1.00	1.23	1.54	1.25	1.02	1.18	1.97	438	51
CH798014	1.00	1.26	1.59	1.26	1.02	1.19	1.97	380	44
CH798016	1.00	1.26	1.44	1.22	1.02	1.16	1.93	635	61
CH798018	1.00	1.21	1.65	1.21	1.02	1.15	1.92	385	61
CH798020	1.00	1.25	1.46	1.22	1.02	1.16	1.97	543	56

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CH798022	1.00	1.12	1.40	1.21	1.02	1.17	2.05	650	59
CH798024	1.00	1.20	1.49	1.22	1.02	1.16	1.93	570	68
CH798026	1.00	1.22	1.50	1.24	1.02	1.17	1.92	663	74
CH798028	1.00	1.20	1.49	1.23	1.02	1.16	1.96	497	58
CH798030	0.99	1.07	1.37	1.23	1.02	1.16	1.86	670	64
CH798032	1.00	1.15	1.47	1.21	1.02	1.15	1.80	441	55
CH798034	1.00	1.23	1.56	1.23	1.02	1.17	1.87	426	56
CH798036	1.00	1.13	1.48	1.20	1.02	1.14	1.83	490	70
CH798038	0.99	1.15	1.42	1.13	1.02	1.10	1.72	535	78
CH798040	0.99	1.19	1.48	1.14	1.02	1.11	1.57	462	99
CH798042	1.00	1.16	1.50	1.13	1.01	1.10	1.51	439	136
CH798044	0.99	1.11	1.50	1.15	1.02	1.12	1.74	442	94
CH798046	1.00	1.27	1.58	1.20	1.02	1.15	1.74	444	81
CH798048	0.99	1.19	1.50	1.19	1.02	1.14	1.70	454	93
CH798050	0.99	1.30	1.50	1.15	1.02	1.11	1.79	409	97
CH798052	1.00	1.27	1.55	1.20	1.02	1.15	1.70	517	84
CH798054	0.99	1.11	1.44	1.12	1.02	1.10	1.63	421	92
CH798056	1.00	1.15	1.48	1.20	1.02	1.15	1.86	438	70
CH798058	1.00	1.28	1.51	1.20	1.02	1.14	1.99	580	80
CH798060	0.99	1.24	1.50	1.19	1.02	1.14	1.91	499	74
CH798062	1.00	1.07	1.38	1.13	1.02	1.10	1.48	534	107
CH798064	0.99	1.19	1.50	1.20	1.02	1.15	1.80	503	91
CH798066	1.00	1.23	1.57	1.20	1.02	1.15	1.90	410	88
CH798068	1.00	1.21	1.59	1.21	1.02	1.15	1.93	449	69
CH798070	1.00	1.11	1.54	1.20	1.02	1.15	1.83	430	75

**RN 2000 EYRE HIGHWAY, SOUTH AUSTRALIA  
PAVEMENT REHABILITATION & WIDENING  
ROADBOND EN-1 AND LIME FLYASH STABILISATION**



**ELMOD FWD ANALYSIS**

"MEASURED" Modulus Calculations

FWD test 26/8 - 96                  Parameterfile:  
FLEXDOT

Project: EYRE HIGHWAY

File/Roadway: F960990 (R/No2000 EYRE HIGHWAY)

Stationing: %797474 to %798070

Layer no. 1 consist of gravel (2 - layer system)

Layer No. 1 is 300 mm thick

Design period: 10 years

Delta PSR = 2

Type  
Number/lane/year

AUSTRALIAN DUAL                  600

Season Temp(C) Percent of loads

1	30.0	33
2	20.0	50
3	30.0	17

Stationing	Distances							Layer Modulus (MPa)	
	0	200	300	450	600	900	1500	E1	E2
797.474	1.01	1.09	1.10	1.09	1.22	1.02	1.34	2422	181
797.478	1.01	1.07	1.09	1.08	1.07	1.02	1.20	3435	181

**RN 2000 EYRE HIGHWAY, SOUTH AUSTRALIA  
PAVEMENT REHABILITATION & WIDENING  
ROADBOND EN-1 AND LIME FLYASH STABILISATION**



797.482	1.01	0.99	0.97	1.06	1.07	1.02	1.26	4361	172
797.486	1.00	1.08	1.10	1.11	1.08	1.02	1.27	3682	163
797.49	1.00	1.11	1.13	1.15	1.11	1.02	1.31	2392	117
797.494	0.99	0.97	0.90	0.81	1.10	1.02	1.17	2351	191
797.498	1.01	0.99	1.00	1.03	1.04	1.02	1.26	4028	148
797.502	0.99	0.98	0.97	0.91	0.85	1.02	0.95	3018	144
797.506	1.00	1.14	1.14	1.13	1.11	1.02	1.30	2459	119
797.51	1.01	0.95	1.01	1.17	1.13	1.02	1.27	1769	102
797.514	0.99	1.09	1.09	1.10	1.10	1.02	1.37	3165	119
797.518	1.01	0.98	0.96	1.04	1.15	1.02	1.24	1205	97
797.522	0.99	1.04	1.06	1.06	1.12	1.02	1.33	2021	97
797.526	0.99	1.03	1.07	1.06	1.07	1.02	1.31	1839	75
797.53	1.00	1.02	1.01	0.95	0.97	1.02	1.11	2105	100
797.534	1.01	1.00	1.02	1.00	1.01	0.95	1.49	5264	89
797.538	1.01	0.97	1.01	1.02	1.02	1.02	1.25	4661	131
797.542	1.00	1.03	1.08	1.07	1.08	1.02	1.20	2991	171
797.546	1.01	1.04	1.08	1.07	1.09	1.02	1.18	2544	177
797.55	1.01	1.03	1.07	1.07	1.10	1.02	1.17	2812	229
797.554	1.00	1.05	1.08	1.09	1.11	1.02	1.21	2600	182
797.558	1.00	0.90	0.87	0.82	1.21	1.02	1.13	3040	303
797.562	1.01	1.02	1.04	1.06	0.98	1.02	0.90	2982	279
797.566	1.00	1.03	1.08	1.09	1.11	1.02	1.15	1905	236
797.57	1.00	1.37	1.40	1.25	1.24	1.02	1.07	3179	298
797.574	1.01	1.08	1.09	1.10	1.10	1.02	1.12	2414	272
797.578	1.00	1.30	1.31	1.21	1.19	1.02	1.24	2196	228
797.582	1.00	0.82	1.46	1.29	1.20	1.02	1.05	2106	280
797.586	1.01	1.08	1.13	1.09	1.15	1.02	1.18	2702	272
797.59	1.01	1.00	0.97	1.12	1.12	1.02	1.23	3973	245
797.594	1.00	1.28	1.24	1.09	0.99	1.02	0.98	1869	295
797.598	1.01	1.05	1.08	1.06	1.07	1.02	1.12	3149	270
797.602	0.99	0.85	0.78	1.45	1.34	1.02	1.05	2324	355
797.606	0.99	0.88	0.85	0.87	1.12	1.02	1.12	1433	311
797.61	1.00	1.05	1.08	1.09	1.15	1.02	1.23	2878	246
797.614	1.00	1.07	1.11	1.12	1.12	1.02	1.23	2540	182
797.618	1.00	1.04	1.15	1.15	1.15	1.02	1.35	4129	196
797.622	1.00	1.00	0.99	0.98	0.94	1.02	0.98	3558	231
797.626	1.00	0.81	1.32	1.23	1.17	1.02	1.18	2075	252
797.63	1.00	1.05	1.09	1.10	1.14	1.02	1.24	1882	136
797.634	1.00	1.05	1.08	1.09	1.10	1.02	1.31	3104	140
797.638	1.00	0.99	1.01	1.05	1.07	1.02	1.23	3729	160
797.642	1.00	1.44	1.37	1.23	1.16	1.02	1.20	1563	183

**RN 2000 EYRE HIGHWAY, SOUTH AUSTRALIA  
PAVEMENT REHABILITATION & WIDENING  
ROADBOND EN-1 AND LIME FLYASH STABILISATION**



797.646	1.00	0.96	0.92	0.84	0.74	1.02	0.78	3321	173
797.65	1.00	1.04	1.10	1.10	1.10	1.02	1.19	2807	201
797.654	1.00	0.84	0.77	1.31	1.20	1.02	1.01	2528	227
797.658	1.00	1.00	0.99	0.96	0.90	1.02	0.91	2491	202
797.662	1.00	1.31	1.26	1.18	1.11	1.02	1.14	1490	229
797.666	0.99	1.13	1.58	1.39	1.23	1.02	1.30	1558	241
797.67	1.00	0.98	1.02	1.04	1.06	1.02	1.12	2311	184
797.674	0.99	1.13	1.36	1.25	1.18	1.02	1.10	1460	247
797.678	1.01	0.97	1.09	1.09	1.11	1.02	1.19	2524	212
797.682	1.00	0.99	1.08	1.10	1.14	1.02	1.18	1413	148
797.686	1.01	0.93	0.99	1.00	1.16	1.02	1.20	1688	164
797.69	1.00	0.92	1.16	1.16	1.14	1.02	1.17	1376	190
797.694	1.00	1.17	1.12	1.32	1.22	1.02	1.28	1610	176
797.698	0.99	1.12	1.14	1.15	1.14	1.02	1.24	2005	147
797.702	1.00	1.28	1.26	1.18	1.15	1.02	1.27	1751	127
797.706	1.00	1.21	1.17	1.09	1.06	1.02	1.07	1322	140
797.71	1.00	1.04	1.04	1.08	1.12	1.02	1.28	1964	115
797.714	1.00	1.39	1.34	1.24	1.17	1.02	1.21	1214	142
797.718	1.00	0.88	0.81	1.25	1.20	1.02	1.25	1404	160
797.722	1.01	1.06	1.09	1.12	1.12	1.02	1.27	2004	109
797.726	0.99	1.09	1.12	1.10	1.13	1.02	1.25	1924	132
797.73	1.00	1.04	1.06	1.06	1.10	1.02	1.26	2839	151
797.734	1.00	0.92	1.10	1.17	1.13	1.02	1.24	1764	136
797.738	0.99	1.34	1.34	1.22	1.19	1.02	1.24	1545	146
797.742	0.99	1.09	1.17	1.14	1.13	1.02	1.47	3174	106
797.746	1.01	1.10	1.11	1.10	1.09	1.02	1.20	2918	162
797.75	1.00	0.89	0.84	1.28	1.21	1.02	1.27	1493	146
797.754	1.00	0.97	0.99	0.99	1.08	1.02	1.17	2056	144
797.758	1.01	0.96	0.94	0.94	0.94	1.02	1.06	3224	158
797.762	1.00	1.06	1.07	1.07	1.13	1.02	1.26	2308	149
797.766	0.99	1.03	1.06	1.06	1.05	1.02	1.26	2887	124
797.77	0.99	1.07	1.10	1.13	1.19	1.02	1.25	1062	107
797.774	1.00	0.98	0.99	1.11	1.08	1.02	1.25	2175	115
797.778	1.00	0.95	0.93	0.92	1.13	1.02	1.16	938	132
797.782	1.00	1.10	1.12	1.09	1.11	1.02	1.22	1321	97
797.786	1.00	1.09	1.11	1.08	1.10	1.02	1.21	1274	89
797.79	1.00	1.04	1.08	1.07	1.09	1.02	1.32	1758	83
797.794	1.00	0.96	0.97	0.96	0.98	1.02	1.04	1837	128
797.798	1.00	1.07	1.11	1.15	1.14	1.02	1.37	1998	94
797.802	0.99	1.06	1.05	1.05	1.08	1.02	1.16	2031	158
797.806	1.00	1.09	1.12	1.11	1.18	1.02	1.27	1131	97

**RN 2000 EYRE HIGHWAY, SOUTH AUSTRALIA  
PAVEMENT REHABILITATION & WIDENING  
ROADBOND EN-1 AND LIME FLYASH STABILISATION**



797.81	1.00	1.04	1.14	1.14	1.15	1.02	1.23	927	81
797.814	1.00	1.09	1.10	1.16	1.21	1.02	1.27	1059	100
797.818	0.99	1.00	1.07	1.07	1.10	1.02	1.25	1623	95
797.822	0.99	1.05	1.11	1.09	1.12	1.02	1.24	1331	86
797.826	1.00	1.00	1.04	1.05	1.17	1.02	1.35	1571	94
797.83	0.99	1.08	1.09	1.07	1.18	1.02	1.31	993	72
797.834	0.99	1.00	1.03	1.03	1.14	1.02	1.23	879	71
797.838	1.00	0.99	1.00	1.07	1.04	1.02	1.19	1073	60
797.842	1.00	1.11	1.20	1.16	1.14	1.02	1.18	516	59
797.846	1.00	1.04	1.14	1.17	1.15	1.02	1.27	621	48
797.85	1.00	0.99	1.08	1.09	1.07	1.02	1.09	391	49
797.854	1.00	1.01	1.12	1.16	1.17	1.02	1.22	580	55
797.858	0.99	1.05	1.21	1.20	1.17	1.02	1.28	504	43
797.862	1.00	1.05	1.18	1.20	1.21	1.02	1.26	429	46
797.866	1.00	1.06	1.17	1.19	1.17	1.02	1.28	522	43
797.87	0.99	1.03	1.18	1.19	1.15	1.02	1.31	896	62
797.874	0.99	0.98	1.07	1.15	1.15	1.02	1.23	856	78
797.878	1.00	1.03	1.11	1.10	1.12	1.02	1.28	1434	85
797.882	1.00	1.09	1.16	1.14	1.10	1.02	1.13	1111	123
797.886	1.00	1.04	1.10	1.16	1.15	1.02	1.27	1354	101
797.89	1.00	1.01	1.20	1.22	1.20	1.02	1.31	1202	98
797.894	1.00	1.01	1.00	1.17	1.14	1.02	1.22	1512	132
797.898	0.99	1.21	1.23	1.22	1.18	1.02	1.30	1479	117
797.902	1.00	1.05	1.07	1.03	1.02	1.02	1.08	1945	146
797.906	1.00	1.03	1.03	1.02	1.13	1.02	1.21	1860	156
797.91	1.00	1.07	1.13	1.11	1.16	1.02	1.24	1331	120
797.914	0.99	1.12	1.13	1.12	1.15	1.02	1.19	1352	134
797.918	1.01	1.08	1.08	1.15	1.09	1.02	1.11	1079	131
797.922	0.99	1.07	1.15	1.13	1.10	1.02	1.18	1504	119
797.926	1.00	0.97	1.02	1.01	1.13	1.02	1.16	976	130
797.93	0.99	1.10	1.19	1.13	1.18	1.02	1.26	1453	132
797.934	0.99	1.10	1.15	1.13	1.12	1.02	1.15	1022	132
797.938	1.00	1.07	1.28	1.17	1.15	1.02	1.19	670	136
797.942	1.00	1.01	1.09	1.18	1.12	1.02	1.15	980	171
797.946	1.00	0.93	0.97	1.12	1.11	1.02	1.14	930	167
797.95	0.99	1.02	1.17	1.16	1.15	1.02	1.19	1006	145
797.954	1.00	1.02	1.08	1.17	1.11	1.02	1.14	870	142
797.958	1.00	0.99	1.00	1.01	1.00	1.02	1.06	1316	101
797.962	1.00	0.96	1.01	1.06	1.05	1.02	1.11	1358	107
797.966	1.00	0.88	1.18	1.12	1.10	1.02	1.16	1824	148
797.97	1.00	0.97	1.11	1.13	1.08	1.01	1.11	345	101

**RN 2000 EYRE HIGHWAY, SOUTH AUSTRALIA  
PAVEMENT REHABILITATION & WIDENING  
ROADBOND EN-1 AND LIME FLYASH STABILISATION**



797.974	1.00	1.17	1.26	1.22	1.14	1.01	1.19	294	85
797.978	1.00	0.98	1.07	1.12	1.08	1.01	1.11	326	99
797.982	1.00	0.84	0.93	0.93	1.15	1.00	1.21	217	128
797.986	0.99	1.11	1.17	1.13	1.09	1.01	1.13	290	102
797.99	1.00	1.00	1.09	1.11	1.06	1.01	1.09	273	84
797.994	0.99	1.08	1.16	1.11	1.07	1.01	1.10	295	98
797.998	1.00	1.07	1.29	1.26	1.17	1.01	1.23	291	79
798.002	1.00	0.73	1.11	1.13	1.13	1.01	1.18	233	112
798.006	1.00	1.09	1.12	1.16	0.95	1.01	0.94	303	71
798.01	1.00	1.15	1.25	1.24	1.13	1.01	1.17	327	78
798.014	0.99	1.02	1.11	1.17	1.09	1.01	1.12	324	80
798.018	0.99	1.02	1.15	1.15	1.09	1.01	1.12	381	102
798.022	1.00	1.13	1.19	1.14	1.09	1.01	1.12	297	92
798.026	1.00	0.95	1.06	1.30	1.18	1.01	1.24	382	106
798.03	1.00	1.03	1.12	1.18	1.09	1.01	1.13	342	103
798.034	0.99	1.01	1.14	1.17	1.10	1.01	1.14	408	106
798.038	1.00	0.99	1.12	1.13	1.07	1.01	1.09	401	138
798.042	0.99	1.15	1.20	1.16	1.10	1.01	1.13	504	192
798.046	1.00	0.98	1.06	1.12	1.09	1.01	1.12	484	141
798.05	1.00	1.04	1.09	1.06	0.95	1.01	0.94	537	138
798.054	1.00	1.08	1.16	1.09	1.03	1.01	1.04	392	162
798.058	1.00	1.17	1.23	1.19	1.16	1.02	1.21	936	114
798.062	0.99	1.06	1.29	1.15	1.09	1.01	1.12	433	186
798.066	1.00	1.04	1.28	1.22	1.13	1.01	1.17	422	129
798.07	0.99	1.01	1.18	1.19	1.11	1.01	1.14	485	139

**RN 2000 EYRE HIGHWAY, SOUTH AUSTRALIA  
PAVEMENT REHABILITATION & WIDENING  
ROADBOND EN-1 AND LIME FLYASH STABILISATION**



**ELMOD FWD ANALYSIS**

"MEASURED" Modulus Calculations

FWD test 25/6 - 97      Parameterfile: FLEXDOT

Project: Eyre Pav Life Roadbond

File/Roadway: F970740 (R/No 2000 EYRE HIGHWAY)

Stationing: %797772 to %798070

Layer no. 1 consist of gravel (2 - layer system)

Layer No. 1 is 175 mm thick

Layer No. 2 is 150 mm thick

Design period: 10  
years

Delta PSR = 2

Type                          Number/lane/year

1000                          AUSTRALIAN DUAL

Season Temp(C) Percent of loads

1	30.0	33
2	20.0	50
3	30.0	17

Calculated/measured deflection

Layer Modulus (MPa)

Stationing	Distances							E1	E2	E3
	0	200	300	450	600	900	1500			
CH797772	1.01	1.08	0.98	0.89	1.02	0.93	1.12	1316	444	105

**RN 2000 EYRE HIGHWAY, SOUTH AUSTRALIA  
PAVEMENT REHABILITATION & WIDENING  
ROADBOND EN-1 AND LIME FLYASH STABILISATION**



CH797774	1.01	0.80	1.08	1.04	1.02	1.00	1.48	958	596	148
CH797776	1.01	1.01	1.04	1.01	1.02	1.11	1.84	2069	519	122
CH797778	1.01	1.13	1.10	1.01	1.02	1.06	1.77	926	756	137
CH797780	1.01	1.09	1.04	1.05	1.02	1.05	1.40	1148	437	158
CH797782	1.01	1.00	1.04	0.99	1.02	1.06	1.48	1243	750	136
CH797784	0.99	0.98	0.99	1.11	1.05	1.14	1.51	2433	204	145
CH797786	1.01	0.99	1.00	0.91	1.02	0.92	1.20	1365	521	131
CH797788	1.01	1.03	1.03	1.00	1.03	1.11	1.71	2884	375	117
CH797790	0.99	1.01	1.00	0.93	1.22	0.90	1.00	6528	60	146
CH797792	1.01	0.93	1.05	1.00	1.02	1.03	1.57	1229	551	138
CH797794	1.01	0.77	1.14	1.07	1.02	1.05	1.39	1193	1735	180
CH797796	0.99	1.05	1.08	1.96	2.10	2.65	4.43	19489	1	179
CH797798	1.01	1.03	1.05	0.99	1.00	1.05	1.85	3105	641	127
CH797800	1.01	1.04	1.07	0.98	1.02	1.10	1.85	1709	936	126
CH797802	1.01	1.13	1.14	1.06	1.02	0.99	1.30	1155	1352	224
CH797804	1.01	1.07	1.06	1.01	1.02	1.03	1.48	1631	806	204
CH797806	1.01	1.00	1.05	0.97	1.02	1.00	1.48	1153	655	139
CH797808	1.01	1.05	1.02	1.10	1.02	1.10	1.58	1283	300	145
CH797810	1.01	0.97	1.06	1.03	1.02	1.03	1.49	826	472	127
CH797812	1.01	0.99	1.07	1.01	1.02	1.04	1.48	697	563	114
CH797814	1.01	1.07	1.07	0.99	1.02	0.97	1.39	2027	817	127
CH797816	1.01	1.01	1.10	1.00	1.02	1.05	1.37	792	802	118
CH797818	1.01	1.02	1.08	1.01	1.02	1.05	1.56	887	665	137
CH797820	1.01	0.91	1.07	1.00	1.02	1.04	1.57	1236	679	124
CH797822	1.01	1.02	1.04	1.01	1.02	1.05	1.64	1509	311	94
CH797824	1.01	0.99	1.03	1.08	1.02	1.07	1.46	1479	314	127
CH797826	1.01	1.05	1.07	1.01	1.02	1.08	1.60	1123	682	123
CH797828	1.01	0.99	1.05	1.01	1.02	1.09	1.56	1214	478	100
CH797830	1.01	1.02	1.06	0.99	1.02	1.07	1.50	813	558	88
CH797832	1.01	0.99	1.02	1.05	1.02	1.07	1.58	955	205	92
CH797834	1.01	1.03	1.04	1.05	1.02	1.06	1.47	827	258	98
CH797836	1.01	0.99	1.05	1.05	1.02	1.06	1.59	644	287	93
CH797838	1.01	1.00	1.06	1.03	1.02	1.02	1.36	725	348	95
CH797840	1.01	1.02	1.04	1.02	1.02	1.06	1.68	743	300	83
CH797842	1.01	1.02	1.09	1.03	1.02	1.10	1.57	356	390	58
CH797844	1.01	0.94	1.06	1.02	1.01	1.05	1.56	477	360	81
CH797846	1.01	1.04	1.10	1.04	1.01	1.05	1.40	341	367	93
CH797848	1.01	0.99	1.05	1.02	1.01	1.04	1.60	450	336	76
CH797850	1.01	0.93	1.03	1.04	1.01	1.05	1.21	341	337	69
CH797852	1.01	0.96	1.05	1.03	1.01	1.03	1.33	320	301	73
CH797854	1.01	0.98	1.06	1.02	1.01	1.05	1.48	384	371	73

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CH797856	1.01	0.97	1.10	1.03	1.01	1.03	1.42	348	522	86
CH797858	1.01	0.95	1.08	1.04	1.01	1.10	1.69	296	497	69
CH797860	1.01	0.92	1.02	1.02	1.02	1.06	1.65	501	282	70
CH797862	1.01	0.91	1.02	1.03	1.01	1.07	1.52	372	472	80
CH797864	1.01	1.03	1.10	1.04	1.01	1.05	1.55	375	336	88
CH797866	1.01	0.99	1.04	1.00	1.02	1.04	1.68	496	328	70
CH797868	1.01	0.98	1.06	1.04	1.02	1.07	1.72	454	296	72
CH797870	1.01	0.99	1.05	1.01	1.02	1.06	1.61	1176	575	134
CH797872	1.01	0.98	1.00	1.06	1.02	1.10	1.92	718	307	91
CH797874	1.01	0.95	1.13	1.08	1.01	1.03	1.60	438	435	94
CH797876	1.01	0.96	1.07	1.01	1.01	1.05	1.49	611	658	108
CH797878	1.01	0.98	1.07	1.00	1.02	1.04	1.49	953	547	114
CH797880	1.01	0.96	1.05	1.02	1.02	1.08	1.66	1400	543	135
CH797882	1.01	1.04	1.08	1.00	1.02	1.03	1.93	683	606	111
CH797884	1.01	1.01	1.07	1.01	1.01	1.01	1.39	922	669	177
CH797886	1.01	1.07	1.08	0.94	1.01	0.95	1.34	797	1028	171
CH797888	1.01	1.01	1.05	1.07	1.02	1.08	1.89	1034	448	146
CH797890	1.01	1.04	1.02	1.04	1.02	1.05	1.55	1615	363	169
CH797892	1.01	0.97	1.05	0.98	1.02	1.01	1.63	1231	574	147
CH797894	1.01	1.09	1.06	1.02	1.02	1.01	1.51	1085	585	182
CH797896	1.01	1.15	1.10	1.02	1.01	1.02	1.54	850	633	179
CH797898	0.99	1.06	1.00	1.11	1.03	1.02	1.50	2339	362	193
CH797900	1.01	1.02	1.06	1.02	1.02	1.03	1.79	1936	789	163
CH797902	0.99	1.04	1.00	1.12	1.05	0.97	1.19	3368	278	207
CH797904	1.01	1.04	1.08	1.03	1.02	1.16	1.72	1988	1142	164
CH797906	1.01	0.98	1.04	1.04	1.02	0.94	1.50	1789	500	167
CH797908	1.01	1.12	1.13	1.04	1.02	1.01	1.54	1107	1239	188
CH797910	1.01	1.06	1.08	1.03	1.02	1.13	1.49	1532	995	156
CH797912	1.01	1.07	1.04	0.93	1.02	0.99	1.23	2313	642	148
CH797914	1.01	1.06	1.07	1.01	1.02	0.93	1.42	2284	1023	153
CH797916	1.01	1.05	1.08	1.02	1.02	1.00	1.49	1541	959	163
CH797918	1.01	0.98	1.06	0.97	1.02	0.98	1.38	1427	654	163
CH797920	1.01	1.02	1.11	1.05	1.02	1.15	1.29	1337	1315	164
CH797922	1.01	1.05	1.06	0.99	1.02	0.97	1.22	1158	528	191
CH797924	1.01	1.02	1.04	1.13	1.02	0.96	1.13	1380	393	157
CH797926	1.01	1.03	1.03	1.13	1.02	1.00	1.21	1073	270	141
CH797928	1.01	1.02	1.06	1.07	1.02	1.02	1.25	1085	490	147
CH797930	1.01	0.94	1.06	1.10	1.02	1.10	1.37	1037	508	158
CH797932	1.01	0.94	1.13	1.04	1.01	1.02	1.30	769	678	192
CH797934	0.99	1.01	1.05	1.06	1.01	1.00	1.23	743	310	173
CH797936	1.01	0.96	1.16	1.01	1.01	1.01	1.15	545	482	170

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CH797938	1.01	0.98	1.14	1.02	1.01	0.95	1.00	623	439	193
CH797940	1.01	0.98	1.10	1.04	1.01	1.00	1.15	695	377	197
CH797942	1.01	0.99	1.08	1.05	1.01	1.04	1.16	847	418	209
CH797944	1.01	0.99	1.11	1.03	1.01	1.02	1.24	705	414	193
CH797946	0.99	0.94	1.05	1.02	1.01	1.00	1.16	818	369	193
CH797948	1.01	1.00	1.12	1.02	1.01	1.01	1.19	595	407	176
CH797950	1.00	0.95	1.06	1.01	1.01	0.99	1.13	725	321	168
CH797952	0.99	0.97	1.11	1.00	1.01	0.99	1.13	458	293	156
CH797954	1.00	0.93	1.08	1.02	1.01	1.00	1.11	596	321	168
CH797956	1.01	1.01	1.08	0.99	1.01	0.97	1.09	599	432	140
CH797958	1.01	1.02	1.02	0.94	1.02	0.89	0.98	1055	321	141
CH797960	1.01	0.96	1.13	1.09	1.02	0.94	1.18	831	1038	141
CH797962	1.01	1.07	1.07	1.03	1.02	0.96	1.22	1270	678	121
CH797964	1.00	1.01	1.00	0.86	1.04	0.86	0.83	3134	232	123
CH797966	1.01	1.06	1.05	0.99	1.00	0.93	1.13	3638	778	151
CH797968	1.01	1.09	1.10	1.03	1.02	1.05	1.29	1261	1131	146
CH797970	1.00	1.01	1.11	1.02	1.01	1.01	1.22	442	269	139
CH797972	1.01	1.02	1.11	1.04	1.01	1.03	1.21	470	284	147
CH797974	0.99	0.92	0.95	0.90	1.01	0.81	0.79	468	192	141
CH797976	0.99	0.96	1.08	1.01	1.00	0.99	0.96	268	185	118
CH797978	1.01	0.96	1.10	1.01	1.01	1.01	1.11	349	378	119
CH797980	0.99	0.95	1.12	1.15	1.08	0.91	0.94	494	66	187
CH797982	0.99	0.94	1.25	1.29	1.05	0.97	1.22	397	69	185
CH797984	1.01	0.95	1.09	1.01	1.00	1.00	0.98	328	266	119
CH797986	1.01	1.01	1.12	1.03	1.01	1.04	1.25	386	318	139
CH797988	0.99	0.95	1.13	1.03	1.00	1.02	1.19	258	182	111
CH797990	1.00	1.00	1.10	0.97	1.00	0.95	1.01	290	215	108
CH797992	1.01	0.97	1.16	1.10	1.01	1.23	0.93	209	867	75
CH797994	1.01	1.04	1.11	1.03	1.01	1.04	1.33	284	348	91
CH797996	1.01	0.98	1.18	1.13	1.01	1.32	1.01	242	1280	82
CH797998	1.01	0.99	1.52	1.16	1.00	1.24	1.27	199	728	118
CH798000	1.01	0.97	1.06	0.91	1.00	0.88	0.70	183	354	74
CH798002	0.99	1.18	1.17	1.00	1.03	0.83	1.00	325	71	156
CH798004	1.01	0.97	1.16	1.03	1.00	1.04	1.15	246	315	102
CH798006	0.99	1.04	1.00	1.02	1.03	0.91	0.97	353	80	112
CH798008	1.01	0.95	1.10	1.03	1.01	1.03	1.09	235	317	80
CH798010	0.99	1.18	1.23	1.58	1.45	0.95	0.78	483	21	154
CH798012	0.99	0.95	1.33	1.06	1.00	1.00	1.24	267	135	143
CH798014	1.01	1.02	1.12	1.02	1.00	1.03	0.95	236	345	89
CH798016	1.01	0.96	1.15	1.11	1.01	1.23	1.08	259	820	79
CH798018	1.01	1.02	1.16	1.05	1.01	1.14	1.04	244	838	78

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CH798020	1.01	1.03	1.10	1.05	1.01	1.05	1.18	320	238	105
CH798022	1.01	1.00	1.12	1.01	1.01	1.01	1.33	280	332	93
CH798024	1.01	0.98	1.07	1.04	1.01	1.04	1.30	430	317	120
CH798026	1.01	0.98	1.11	1.01	1.01	1.01	1.12	385	344	135
CH798028	0.99	1.01	1.14	1.03	1.00	1.03	1.25	290	227	121
CH798030	0.99	1.20	1.14	0.98	1.02	0.88	1.04	354	103	153
CH798032	1.01	0.92	1.01	1.04	1.01	1.04	0.99	378	315	101
CH798034	1.01	1.02	1.15	1.03	1.01	1.03	1.24	394	293	146
CH798036	0.99	1.04	1.15	0.98	1.01	0.91	1.15	411	146	173
CH798038	0.99	1.10	1.11	0.98	1.01	0.93	0.98	387	184	163
CH798040	0.99	0.97	1.21	1.21	1.05	0.97	1.13	553	93	238
CH798042	0.99	1.11	1.15	1.00	1.01	0.89	1.24	576	287	226
CH798044	0.99	1.07	1.27	1.03	1.01	0.93	1.17	456	159	230
CH798046	1.01	1.04	1.05	0.87	1.00	0.82	0.73	379	399	142
CH798048	0.99	0.96	1.05	1.04	1.02	0.96	1.04	646	170	202
CH798050	1.01	1.07	1.11	1.04	1.01	1.00	1.35	541	315	153
CH798052	1.01	1.04	1.10	0.98	1.01	0.96	1.04	602	425	169
CH798054	0.99	1.03	1.09	1.04	1.02	0.95	1.08	611	147	208
CH798056	0.99	1.18	1.25	1.06	1.00	1.02	1.25	409	265	194
CH798058	0.99	1.02	1.02	1.18	1.04	1.10	1.34	632	103	157
CH798060	1.01	1.05	1.02	0.89	1.01	0.84	0.61	347	578	92
CH798062	1.01	1.02	1.08	1.07	1.01	1.08	1.09	535	287	137
CH798064	1.00	0.89	1.35	1.12	1.00	0.92	1.21	352	346	181
CH798066	1.01	1.02	1.11	1.02	1.01	1.02	1.42	442	309	138
CH798068	0.99	0.99	1.17	1.06	1.01	0.97	1.26	472	330	179
CH798070	0.99	1.01	1.17	1.06	1.01	0.99	1.09	498	252	205