

# Sample Report 1

A scenic landscape featuring a winding asphalt road on a steep, forested cliffside overlooking a large, turquoise lake. The sky is blue with scattered white clouds. The text "Sample Report 1" is overlaid in the center of the image.

# Sample Report 1

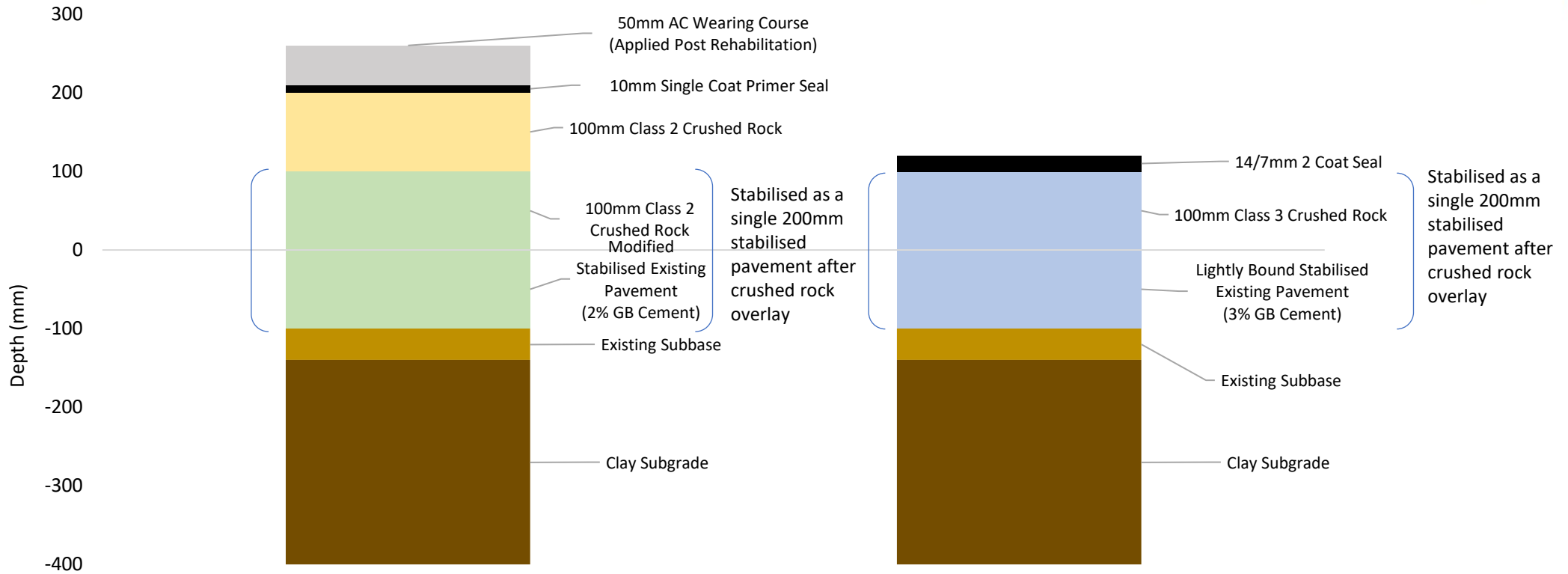


Typical to road rehabilitation projects, a range of different rehabilitation approaches will be prepared to allow road asset managers select the best option.

Options	Description	Details
<p>1</p> <p>Proposed Modified/Unbound Pavement Rehabilitation Treatment</p>	<p>50mm AC (applied post rehabilitation)                      10mm spray seal                      100mm Class 2 Crushed Rock                      200mm Stabilised Layer with 100mm imported Class 3 Crushed Rock and Existing Material (2% application)                      (360mm total depth)</p>	<p>1. Mix 100mm deep at 6m wide existing road (pulverising method). Client has noted 1,800m<sup>2</sup> of this section has AC. SPA advises no issue with construction of alternative option below.                      2. Add 100mm of 40mm Crushed Rock or 20mm Class 3 Crushed Rock.                      3. Stabilise 200mm deep entire road width with blended mix of cement and lime (70% to 30% etc). Other method is to apply cement and lime separately and only use lime in areas where it is needed (where subbase is wet).                      4. Add 100mm on 20mm Class 2 Crushed Rock.                      5. 10mm primer seal (AC applied post rehabilitation).</p>
<p>2</p> <p>SPA Recommended Lightly Bound Stabilised Pavement Treatment</p> <p><b>Completed treatment</b></p>	<p>14/7mm two coat spray seal                      200mm Stabilised Layer with 100mm imported Class 3 Crushed Rock and Existing Material (3% application)                      (260mm total depth)</p>	<p>1. Add 100mm of 20mm Class 3 Crushed Rock or other local marginal material.                      2. Stabilise the entire road width in a single-layer depth of 200mm with blended cement at 3% application rate to achieve a lightly bound pavement of 1-2MPa.                      3. 14/7mm two coat spray seal</p>
<p>3</p> <p>Unbound granular/crushed rock reconstruction</p> <p><b>Austrroads Guide to Pavement Technology Figure 8.4</b></p>	<p>50mm AC (applied post rehabilitation)                      10mm spray seal                      150mm Class 2 Crushed Rock                      150mm Class 3 Crushed Rock                      (360mm total depth)</p>	<p>1. Place, shape and compact 150mm Class 3 Crushed Rock.                      2. Place, shape and compact 150mm Class 2 Crushed Rock.                      3. 10mm primer seal (AC applied post rehabilitation).</p> <p>Note: Option 1 and 3 have same structural thickness due to both behaving like unbound granular materials. The benefit of modification by stabilisation in option 1 includes material property improvements separate to structural design, including reduced plasticity and improved water resistance.</p>
<p>4</p> <p>Deep Lift Asphalt Option</p> <p><b>CIRCLY Pavement Design</b></p>	<p>50mm AC10                      50mm AC14</p>	<p>1. Import, place and compact 50mm AC10.                      2. Import, place and compact 50mm AC14.</p>

**Design Subgrade CBR = 3.0%**  
**Design Traffic Loading = 1 x 10<sup>4</sup> Equivalent Standard Axles**

# Stabilisation Options



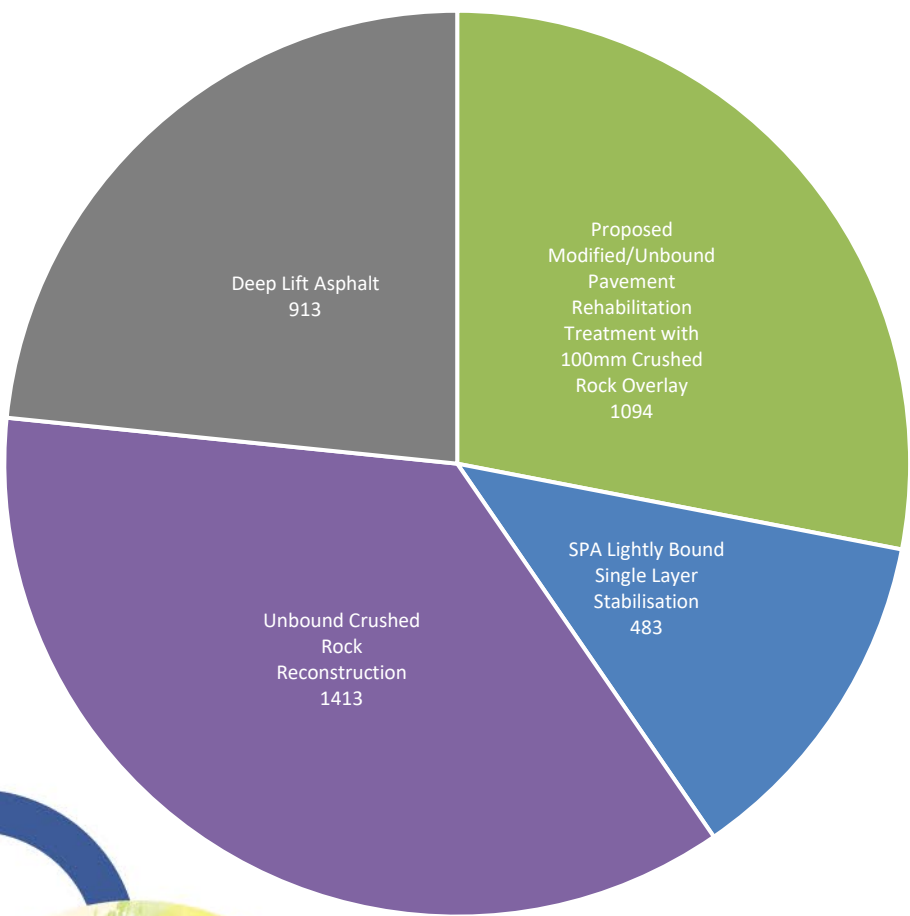
Proposed Modified/Unbound Pavement Rehabilitation Treatment  
 10mm Single Coat Primer Seal  
 100mm Class 2 Crushed Rock  
 200mm Modified Stabilised Pavement  
 Including 100mm Class 2 Crushed Rock (2% GB Cement)  
 Clay Subgrade

SPA Recommended Lightly Bound Stabilised Pavement Treatment  
 14/7mm 2 Coat Seal  
 200mm Lightly Bound Stabilised Pavement  
 Including 100mm Class 3 Crushed Rock (3% GB Cement)  
 Existing Subbase  
 Clay Subgrade



# Greenhouse Gas Emission Measured in Tonnes of CO<sub>2</sub> Equivalents

- ✓ Manufacturing of Materials
- ✓ Onsite Construction Activities
- ✓ Fuel for Transport



Treatment Options		Greenhouse Gas Emissions (Measured in Carbon Dioxide Equivalent Tonnes)			
		Manufacturing of Materials	Construction Activities	Transport	Total (Tonnes)
1	Proposed Modified/Unbound Pavement Rehabilitation Treatment with 100mm Crushed Rock Overlay	1039	27	28	<b>1094</b>
2	SPA Recommended Lightly Bound Stabilised Pavement Treatment (completed treatment)	452	19	12	<b>483</b>
3	Unbound granular/crushed rock reconstruction	1349	26	39	<b>1413</b>
4	Deep lift asphalt	883	7	23	<b>913</b>

# Sustainability Summary

