

## WORKSHOP 3 - SUSTAINABILITY MATRIX - YELLOW GROUP

✓ positive impact  
 ✗ negative impact  
 – neutral impact

? unknown  
 N/A not applicable



| OPTIONS   | 1<br>Transport material with minimum journey lifetime per m <sup>3</sup> | 2<br>Meet demand through combination of primary and recycled aggregate | 3<br>Provision of Strategic recycling facilities | 4<br>Recycling at point of need - small local recycling facilities | 5<br>Use of conveyor belts to transport material |
|---|--|--|--|--|--|
| 1. BALANCE NEED VERSUS ENVIRONMENT  | N/A  | ✓  | ✓  | ✓  | ✓  |
| 2. EFFICIENT USE OF RESOURCES   | ✓  | ✓  | ✓  | ✓  | ✓  |
| 3. PROMOTE USE OF LOCAL RESOURCES   | ✓ ?  | ✓  | ✓  | ✓  | N/A  |
| 4. SUSTAINABLE AREAS FOR FUTURE MINERAL EXTRACTION                                      | ✓  | ✓  | ✓  | ✓  | N/A  |
| 5. ACHIEVE A GOOD STANDARD OF RESTORATION AT THE EARLIEST OPPORTUNITY                   | N/A  | N/A  | N/A  | N/A  | N/A  |
| 6. ACHIEVE A POSITIVE CONTRIBUTION IN TERMS OF LANDSCAPE / ECOLOGICAL ENHANCEMENT       | N/A  | N/A  | N/A  | N/A  | N/A  |
| 7. PREVENT UNNECESSARY STERILISATION OF MINERAL RESOURCES BY OTHER FORMS OF DEVELOPMENT | N/A  | N/A  | N/A  | N/A  | N/A  |
| 8. ACHIEVE INTEGRATION WITH OTHER STRATEGIES  | ✓  | ✓  | ✓  | ✓  | ✓  |
| 9. SUSTAINABLE TRANSPORTATION   | ✓  | ✓  | ✓  | ✓  | ✓  |
| 10. SEEK TO MAXIMISE LOCAL EMPLOYMENT AND CONTRIBUTE TO LOCAL ECONOMY                   | N/A  | ✓  | ✓  | ✓  | N/A  |

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| OPTIONS   | 6<br>Upgrade road infrastructure                 | 7<br>Create or re-establish strategic rail heads | 8<br>Utilise other forms of transport where possible | 9<br>Encourage mining of Portland stone / resist opencast quarrying | 10<br>Define stone catchment areas        |
|---|--|--|--|---|---|
| 1. BALANCE NEED VERSUS ENVIRONMENT  | ✓ If need for minerals<br>✗ If building new road | N/A  | N/A  | ✓   | ✓   |
| 2. EFFICIENT USE OF RESOURCES   | ✓ ✗  | ✓  | ✓  | ✓   | ✓<br>May not be efficient in market terms |
| 3. PROMOTE USE OF LOCAL RESOURCES   | –  | –  | ✓  | ✓   | ✓   |
| 4. SUSTAINABLE AREAS FOR FUTURE MINERAL EXTRACTION                                      | ✓  | N/A  | ✓  | ?   | N/A                                       |
| 5. ACHIEVE A GOOD STANDARD OF RESTORATION AT THE EARLIEST OPPORTUNITY                   | N/A  | N/A  | N/A  | ✓   | N/A                                       |
| 6. ACHIEVE A POSITIVE CONTRIBUTION IN TERMS OF LANDSCAPE / ECOLOGICAL ENHANCEMENT       | ✗  | N/A  | N/A  | ✓   | N/A<br>✓ Enhancement to area              |
| 7. PREVENT UNNECESSARY STERILISATION OF MINERAL RESOURCES BY OTHER FORMS OF DEVELOPMENT | ✓  | ✓  | ✓  | ✓   | N/A                                       |
| 8. ACHIEVE INTEGRATION WITH OTHER STRATEGIES  | ✓  | ✓  | ✓  | ✓   | ✓   |
| 9. SUSTAINABLE TRANSPORTATION   | ✓  | ✓  | ✓  | N/A   | N/A                                       |
| 10. SEEK TO MAXIMISE LOCAL EMPLOYMENT AND CONTRIBUTE TO LOCAL ECONOMY                   | ✓  | –  | ✓  | ✓   | ✓   |

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| OPTIONS   | 11<br>Use waste blockstone as aggregate | 12<br>Include buffer zones around mineral sites to protect amenity | 13<br>Avoid building on or close to known mineral deposits | 14<br>Prioritise sites in terms of sustainable transport opportunities | 15<br>Prioritise sites with least impact on environment and amenity |
|---|---|--|--|--|---|
| 1. BALANCE NEED VERSUS ENVIRONMENT  | ✓                                       | ✓  | ✓  | ✓  | ✓   |
| 2. EFFICIENT USE OF RESOURCES   | ✓                                       | ✗  | ✓  | ✓  | ✗   |
| 3. PROMOTE USE OF LOCAL RESOURCES   | ✓                                       | ✓  | ✓<br>Eventually when there is a need                       | ✓  | ✗   |
| 4. SUSTAINABLE AREAS FOR FUTURE MINERAL EXTRACTION                                      | ✓                                       | – ✓  | –  | ✓  | N/A   |
| 5. ACHIEVE A GOOD STANDARD OF RESTORATION AT THE EARLIEST OPPORTUNITY                   | ✓                                       | N/A  | N/A  | N/A  | N/A   |
| 6. ACHIEVE A POSITIVE CONTRIBUTION IN TERMS OF LANDSCAPE / ECOLOGICAL ENHANCEMENT       | N/A                                     | ✓  | ✓<br>Indirectly  | N/A  | ✓ Indirectly<br>Environmental controls will be stronger in future   |
| 7. PREVENT UNNECESSARY STERILISATION OF MINERAL RESOURCES BY OTHER FORMS OF DEVELOPMENT | N/A                                     | ✓  | ✓  | N/A  | N/A   |
| 8. ACHIEVE INTEGRATION WITH OTHER STRATEGIES  | ✓                                       | – N/A  | ✓  | ✓  | ✓   |
| 9. SUSTAINABLE TRANSPORTATION   | ✓                                       | N/A  | N/A  | ✓  | N/A   |
| 10. SEEK TO MAXIMISE LOCAL EMPLOYMENT AND CONTRIBUTE TO LOCAL ECONOMY                   | ✓                                       | N/A  | N/A  | N/A  | –   |

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| OPTIONS   | 16<br>Public consultation forum<br>in relation plans for<br>restoration and afteruse | 17<br>Local use of waste materials<br>- Purbeck waste stone for<br>local market as aggregate | 18<br>Use more secondary<br>aggregate and recycled<br>materials |  |  |
|---|--|--|---|--|--|
| 1. BALANCE NEED VERSUS ENVIRONMENT  | ✓  | ✓  | ✓   |  |  |
| 2. EFFICIENT USE OF RESOURCES   | ✓<br>In terms of afteruse  | ✓  | ✓   |  |  |
| 3. PROMOTE USE OF LOCAL RESOURCES   | ✓  | ✓  | ✓   |  |  |
| 4. SUSTAINABLE AREAS FOR FUTURE<br>MINERAL EXTRACTION   | N/A  | ✓  | ✓   |  |  |
| 5. ACHIEVE A GOOD STANDARD OF<br>RESTORATION AT THE EARLIEST<br>OPPORTUNITY                   | ✓  | – ✓  | N/A   |  |  |
| 6. ACHIEVE A POSITIVE CONTRIBUTION IN<br>TERMS OF LANDSCAPE / ECOLOGICAL<br>ENHANCEMENT       | ✓  | N/A  | N/A<br>Won't need to extract<br>primary aggregate               |  |  |
| 7. PREVENT UNNECESSARY STERILISATION<br>OF MINERAL RESOURCES BY OTHER FORMS<br>OF DEVELOPMENT | N/A  | N/A  | N/A   |  |  |
| 8. ACHIEVE INTEGRATION WITH OTHER<br>STRATEGIES   | ✓  | ✓  | ✓   |  |  |
| 9. SUSTAINABLE TRANSPORTATION   | N/A  | ✓  | ✓   |  |  |
| 10. SEEK TO MAXIMISE LOCAL EMPLOYMENT<br>AND CONTRIBUTE TO LOCAL ECONOMY                      | ✓  | ✓  | ✓   |  |  |