

**Technical Appendix 9.1, Annex 9.1C**  
**Materials Calculator: Volume of Rock Required for Ben Sca Redesign Wind Farm**

| Infrastructure                     | Length m | As built surface width m | Construction width m | As built area m2 | Depth m | Number | Volume m3    | Final Volume m3 | Notes:   |
|------------------------------------|----------|--------------------------|----------------------|------------------|---------|--------|--------------|-----------------|--|
| Excavated Tracks                   | 4342     | 5                        | 7                    | 30394            | 0.6     | 1      | 18236        | 18236           | Assumes 5m width on surface with 7m average at base                  |
| Floated Tracks (>1m)               | 167      | 5                        | 7                    | 835              | 0.6     | 1      | 701          | 701             |  |
| Existing Track                     | 1784     | 5                        | 7                    | 8920             | 0.2     | 1      | 2498         | 2498            | Maintenance only   |
| Turning Head 1                     |          |                          |                      | 1699             | 0.6     | 1      | 1019         | 1019            |  |
| Turning Head 2                     |          |                          |                      | 634              | 0.6     | 1      | 380          | 380             |  |
| Turbine Bases - formation only     |          |                          |                      | 394              | 0.5     | 9      | 1772         | 1772            | Assumes all concrete for turbine bases imported                      |
| Fill above Turbine Bases           |          |                          |                      |                  |         |        | 11979        | 11979           |  |
| Crane Pads                         |          |                          |                      |                  |         |        | 25007        | 25007           |  |
| Substation 1                       | 35       | 30                       |                      | 1050             | 1       | 1      | 1050         | 1050            |  |
| Construction Compound 1            | 100      | 50                       |                      | 5000             | 0.5     | 1      | 2500         | 2500            |  |
| Construction Compound 2            |          |                          |                      | 3000             | 0.5     | 1      | 1500         | 1500            |  |
| <b>TOTAL REQUIREMENT</b>           |          |                          |                      |                  |         |        | <b>66644</b> | <b>66,644</b>   | Based on finding no material along route, which could reduce volume. |
| Borrow pit material won (estimate) |          |                          |                      |                  |         |        |              | <b>88,322</b>   |  |
| BP1                                |          |                          |                      |                  |         |        |              | 13,377          |  |
| BP2                                |          |                          |                      |                  |         |        |              | 14,519          |  |
| BP3                                |          |                          |                      |                  |         |        |              | 60,425          |  |
| plus 10% contingency               |          |                          |                      |                  |         |        |              | <b>6,664</b>    |  |