

8. Material Use

WINNER

M74 Completion Project

Client : Glasgow City Council | Designers: Jacobs / Atkins JV
Contractor: Interlink M74 JV (Comprising Morrison Construction, Balfour Beatty, Morgan Sindall & Sir Robert McAlpine)

DESCRIPTION: A £445m new-build project, constructing 8km of motorway with 13 bridges and 4 grade-separated junctions joining the previous end of the M74 to the M8 in Glasgow. The completed scheme provides a ring of motorway around Glasgow, removing some 20,000 vehicle movements per day from the Kingston Bridge and alleviating wider congestion in the city.

ACHIEVEMENTS: First project site in Scotland to voluntarily adopt Site Waste Management Plans as Best Practice (WRAP). Remediation and re-use of 43,000 m³ of Chromite Ore Processing Residue. Importation of 500,000 tonnes of locally sourced recycled aggregates; 2.5 million tonnes of structural fill drawn from secondary sources. Recycling rate of 81% achieved during construction phase, reducing waste disposal costs by 50%. 300,000 m³ of clay which was dug out from under Cathcart Road (the only structure that is an overbridge) was used as structural fill within the project.

JUDGES' QUOTE: *This project had a primary focus on the use of materials from secondary sources. The substantial majority of this was sourced locally from other projects. Achievement of this strategy also required the stabilisation of large quantities of contaminated ground.*



[Source: Glasgow Motorways]



[Sharon Grafton, CEEQUAL]

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