Republic of Iraq

Ministry of Higher Education and Scientific Research

University of Technology

Building and Construction Engineering Department

Highway and Bridge Engineering Branch

**Cold Recycling of Asphalt Pavement**

Annual project submitted to the Department of Building and Construction Engineering of University of Technology in partial fulfillment of requirement of the Degree of B. Sc. In Building and Construction

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**Chapter One**

**Introduction**

**1.1Introduction**

Pavement recycling is a logical and practical way to conserve our diminishing supply of construction materials and to help reduce the cost of preserving our existing pavement network. When properly designed and constructed, recycled pavements have been found to perform as well as pavements built with all new materials . Several recycling techniques, such as hot mix recycling, hot in-place recycling, cold mix recycling, cold in-place recycling, and full depth reclamation, have evolved over the past 35 years . In-place recycling not only reduces the use of new materials but also reduces emissions, traffic, and energy associated with the transport and production of these materials. As with new pavement construction, well thought-out materials evaluation, mix design, structural design, and Quality control / Quality Assurance (QC/QA) procedures and specifications are all important elements of successful recycling projects. Technical assistance from industry organizations or experienced highway agencies is available to local agencies seeking guidance on the selection of appropriate recycling strategies.