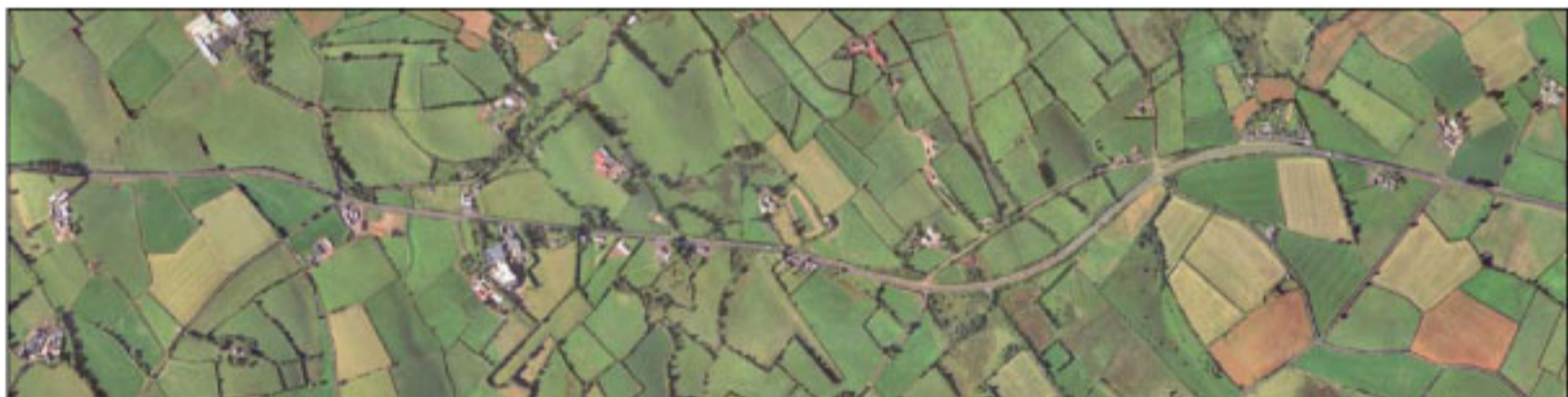




**FERGUSON  
MCILVEEN**

# North Western Key Transport Corridor Randalstown to Toome Dualling



## Stage 1 Report - Addendum

## Final Report



**ROADS Service**

**June 2005**

# **North Western Key Transport Corridor Randalstown to Toome Dualling**

## **Stage 1 Report - Addendum**

### **Final Report**

Scott Wilson Scotland Ltd  
6 Park Circus  
GLASGOW  
G3 6AX

Ferguson McIlveen LLP  
Beechhill House  
Beechhill Road  
BELFAST  
BT8 7RP

Document: S100291/DOC014  
Revision: C  
Approved:  
Date: June 2005

## CONTENTS

<b>1</b>	<b>INTRODUCTION</b>	<b>2</b>
<b>2</b>	<b>STAGE 1 REPORT – SUMMARY</b>	<b>3</b>
<b>3</b>	<b>DESCRIPTION OF ADDITIONAL OPTIONS</b>	<b>6</b>
<b>4</b>	<b>ENGINEERING ASSESSMENT</b>	<b>7</b>
4.1	GEOLOGICAL CONDITIONS	7
4.2	SERVICES	8
4.3	ROUTE OPTION COST ESTIMATES	9
<b>5</b>	<b>ENVIRONMENTAL ASSESSMENT</b>	<b>13</b>
5.1	INTRODUCTION	13
5.2	AIR QUALITY	13
5.3	CULTURAL HERITAGE	13
5.4	DISRUPTION DUE TO CONSTRUCTION	14
5.5	ECOLOGY & NATURE CONSERVATION	14
5.6	LANDSCAPE & VISUAL EFFECTS	14
5.7	LAND USE	15
5.8	TRAFFIC NOISE & VIBRATION	16
5.9	PEDESTRIAN, CYCLIST, EQUESTRIAN AND COMMUNITY EFFECTS	16
5.10	VEHICLE TRAVELLERS	16
5.11	WATER QUALITY & DRAINAGE	17
5.12	GEOLOGY & SOILS	17
5.13	POLICIES & PLANS	17
<b>6</b>	<b>TRAFFIC AND ECONOMIC ASSESSMENT</b>	<b>18</b>
6.1	ROUTE OPTIONS	18
<b>7</b>	<b>SCHEME APPRAISAL</b>	<b>35</b>
7.1	THE APPRAISAL SUMMARY TABLES	35
<b>8</b>	<b>COMPARATIVE ROUTE APPRAISAL</b>	<b>46</b>
8.1	INTRODUCTION	46
8.2	ENGINEERING ROUTE APPRAISAL	46
8.3	ENVIRONMENTAL ROUTE APPRAISAL	48
8.4	TRAFFIC AND ECONOMIC ROUTE APPRAISAL	53
8.5	COMPARISON MODELS	54
<b>9</b>	<b>CONCLUSION AND RECOMMENDATION</b>	<b>60</b>