

Appendix B: Cost Estimates

Status: Final Project number: Z1843900 December 2010 Our ref: Nelson ATS Stage 3 Report Final.doc

Project Estimate - Form A Project Name: Nelson Arterial Study Option A - Peak Hour Clearways Feasibility Estimate Description Item **Base Estimate** Contingency **Funding Risk Nett Project Property Cost** 180,000 59,400 Α Investigation and Reporting 174,900 - Consultancy Fees 530,000 106,000 - Client Managed Costs 370,000 74,000 122,100 Total Investigation and Reporting 900,000 180,000 297,000 **Design and Project Documentation** - Consultancy Fees 900,000 180,000 297,000 - Client Managed Costs 575,000 115,000 189,800 Total Design and Project Documentation 1,475,000 295,000 486,800 c Construction MSOA - Consultancy Fees 530.000 106.000 174.900 - Client Managed Costs 370,000 74,000 122,100 - Consent Monitoring Fees Sub Total Base MSQA 900,000 180,000 297,000 **Physical Works** D1 Environmental Compliance 530,000 106,000 174,900 D2 Earthworks 866,300 259,900 433,200 Ground Improvements 145,000 29,000 47,900 2,077,500 415,500 685,600 D4 Drainage D5 Pavement and Surfacing 754,800 151,000 249,100 D6 Bridges 4,918,750 983,800 1,623,200 36,800 60,600 D7 Retaining Walls 183.750 1,318,200 2,175,000 D8 Traffic Services 6.591.050 D9 Service Relocations 1,068,750 213,800 352,700 49.900 D10 Landscaping 151,200 30,200 D11 Traffic Management and Temporary Works 1,000,000 200,000 330,000 D12 Preliminary and General 2,150,000 430,000 709,500 D13 Extraordinary Construction Costs 20,437,100 4.174.200 6,891,600 Sub Total Base Physical Works D **Total Construction & MSQA** 21,337,100 4,354,200 7,188,600 E Project Base Estimate (A+B+C+D) 23,892,100 (A+B+C+D) Contingency (Assessed / Analysed) F 4,865,200 **Project Expected Estimate** 28,757,300 216,000 Project Property Cost Expected Estimate 1.080.000 Investigation and Reporting Expected Estimate Design and Project Documentation Expected Estimate 1.770.000 Construction Expected Estimate 25,691,300 Funding Risk (Assessed / Analysed) (A+B+C+D) 8,031,800 95th Percentile Project Estimate (G+H) 36,789,100 Project Property Cost 95th Percentile Estimate 275,400

Base Date of Estimate	1 Jul 2010	Cost Index
Estimate prepared by:	Adrian Gray	Signed
Estimate internal peer review by:	Nigel Lister	Signed

1,377,000

2,256,800

32,879,900

Note: (1) These estimates are exclusive of escalation and GST.

Investigation and Reporting 95th Percentile Estimate

Construction 95th Percentile Estimate

Design and Project Documentation 95th Percentile Estimate

Project Estimate - Form A Project Name: Nelson Arterial Study Option B - Southern Arterial Feasibility Estimate Description Item **Base Estimate** Contingency **Funding Risk Nett Project Property Cost** 3,423,000 684,600 1,129,500 Α Investigation and Reporting 168,300 - Consultancy Fees 510,000 102,000 - Client Managed Costs 340,000 68,000 112,200 **Total Investigation and Reporting** 850,000 170,000 280,500 **Design and Project Documentation** - Consultancy Fees 775,000 155,000 255,800 - Client Managed Costs 510,000 102,000 168,300 Total Design and Project Documentation 1,285,000 257,000 424,100 c Construction MSOA - Consultancy Fees 510.000 102.000 168.300 112,200 - Client Managed Costs 340,000 68,000 - Consent Monitoring Fees Sub Total Base MSQA 850,000 170,000 280,500 **Physical Works** D1 Environmental Compliance 2,000,000 400,000 660,000 D2 Earthworks 2,185,000 655,500 1,092,500 Ground Improvements 3,525,000 705,000 1,163,300 D4 Drainage D5 Pavement and Surfacing 4,012,500 802,500 1,324,100 100,000 165,000 D6 Bridges 500,000 350,000 70,000 115,500 D7 Retaining Walls 706,800 1,166,300 3.534.100 D8 Traffic Services 284,000 D9 Service Relocations 860,625 172,100 142,500 D10 Landscaping 431.850 86,400 D11 Traffic Management and Temporary Works 925,000 185,000 305,300 D12 Preliminary and General 1,850,000 370,000 610,500 D13 Extraordinary Construction Costs 20,174,075 4,253,300 7,029,000 Sub Total Base Physical Works D **Total Construction & MSQA** 21,024,075 4,423,300 7,309,500 E Project Base Estimate (A+B+C+D) 26,582,075 Contingency (Assessed / Analysed) (A+B+C+D) F 5,534,900 **Project Expected Estimate** 32,116,975 Project Property Cost Expected Estimate 4,107,600 1.020.000 Investigation and Reporting Expected Estimate Design and Project Documentation Expected Estimate 1.542.000 Construction Expected Estimate 25,447,375 (A+B+C+D) Funding Risk (Assessed / Analysed) 9,143,600 95th Percentile Project Estimate (G+H) 41,260,575 Project Property Cost 95th Percentile Estimate 5,237,100 Investigation and Reporting 95th Percentile Estimate 1,300,500

Base Date of Estimate	1 Jul 2010	Cost Index
Estimate prepared by:	Barbara Browne	Signed
Estimate internal peer review by:	Nigel Lister	Signed

1,966,100

32,756,875

Note: (1) These estimates are exclusive of escalation and GST.

Design and Project Documentation 95th Percentile Estimate

Construction 95th Percentile Estimate

Project Estimate - Form A Project Name: Nelson Arterial Study Option H - SH6 Four-Laning Feasibility Estimate Description Item **Base Estimate** Contingency **Funding Risk Nett Project Property Cost** 13,500,000 2,700,000 4,455,000 Α Investigation and Reporting 1.400,000 462,000 - Consultancy Fees 280.000 - Client Managed Costs 975,000 195,000 321,800 **Total Investigation and Reporting** 2,375,000 475,000 783,800 **Design and Project Documentation** - Consultancy Fees 2,225,000 445,000 734,300 - Client Managed Costs 1,475,000 295,000 486,800 Total Design and Project Documentation 3,700,000 740,000 1,221,100 c Construction MSOA - Consultancy Fees 1.400.000 280.000 462.000 321,800 195,000 - Client Managed Costs 975,000 - Consent Monitoring Fees 475,000 Sub Total Base MSQA 2,375,000 783,800 **Physical Works** D1 Environmental Compliance 1,200,000 240,000 396,000 D2 Earthworks 6,675,000 2,002,500 3,337,500 Ground Improvements 3,696,000 739,200 1,219,700 D4 Drainage D5 Pavement and Surfacing 3,480,000 696,000 1,148,400 4,918,750 2,459,400 D6 Bridges 1,475,600 23,000,000 6,900,000 11,500,000 D7 Retaining Walls 3,930,750 1.297.100 786.200 D8 Traffic Services 928,100 D9 Service Relocations 2,812,500 562,500 D10 Landscaping 616,400 123,300 203,400 D11 Traffic Management and Temporary Works 2,500,000 500,000 825,000 D12 Preliminary and General 5,000,000 1,000,000 1,650,000 D13 Extraordinary Construction Costs 15,025,300 57.829.400 24,964,600 Sub Total Base Physical Works D **Total Construction & MSQA** 60,204,400 15,500,300 25,748,400 E Project Base Estimate (A+B+C+D) 79,779,400 (A+B+C+D) Contingency (Assessed / Analysed) F 19,415,300 **Project Expected Estimate** 99,194,700 Project Property Cost Expected Estimate 16,200,000 2.850.000 Investigation and Reporting Expected Estimate Design and Project Documentation Expected Estimate 4.440.000 Construction Expected Estimate 75,704,700 Funding Risk (Assessed / Analysed) (A+B+C+D) 32,208,300 95th Percentile Project Estimate (G+H) 131,403,000

Base Date of Estimate	1 Jul 2010	Cost Index
Estimate prepared by:	Andrew Stevenson	Signed
Estimate internal peer review by:	Nigel Lister	Signed

20,655,000

3,633,800

5,661,100

101,453,100

Note: (1) These estimates are exclusive of escalation and GST.

Project Property Cost 95th Percentile Estimate

Construction 95th Percentile Estimate

Investigation and Reporting 95th Percentile Estimate

Design and Project Documentation 95th Percentile Estimate