

Curriculum Vitae: Darrell Statham

Qualifications	Career Highlights
BE (Civil) 1993	Darrell Statham, BE, M.IPENZ (Civil), CPEng is the principal of Statham Consulting Limited. Darrell has a degree in civil engineering with over 18 years' experience specialising in civil design, economic evaluation and project management for traffic/transportation and roading projects including traffic management, crash reduction studies, traffic impact studies, traffic modelling (micro–simulation and intersection analysis), transport planning and safety work.
Professional Affiliations	
Chartered Professional Engineer (CPEng)	Darrell's experience has been gained from both the Client and Consultant perspective incorporating extensive Project Management, Design Management and Contract Management experience.
Member, Institution of Professional Engineers of New Zealand (MIPENZ)	
Member, IPENZ Transportation Group	
Certified RMA Decision Maker	Darrell is a certified Decision Maker under the Ministry for the Environment's Resource Management Act (RMA) Making Good Decisions programme.
Project Management Training	Before establishing Statham Consulting Limited in 2008 Darrell was the Traffic and Transportation Team Leader of the Wellington Office of Maunsell AECOM.
Completion of PSMJ Resources International Project Management training programme	

Detailed Experience

Traffic Impact Assessment Report – Childcare Centre, Wainuiomata; Mama My Turn Ltd

February 2011 – ongoing

Traffic Engineer

Expert assessment of existing and likely traffic impacts from proposal to expand an existing child care centre, accommodating an additional 25 children and 5 staff on site at any one time, in Wainuiomata.

Independent Implementation – Planning and Investment Relationship Framework (PIRF); New Zealand Transport Agency (Wellington Regional Office)

March 2011 – Ongoing

Independent Consultant

Introduction and independent application of the New Zealand Transport Agency (NZTA) Planning and Investment Relationship Framework (PIRF) to all Approved Organisations in the Wellington/Wairarapa/Marlborough/Nelson Regions.

Traffic & Safety Engineer – State Highway 2 Billboards; Prime Property Group Ltd

December 2010 – March 2011

Traffic and Safety Engineer

Assessment of actual and potential resource management related traffic and safety effects associated with a proposed amendment to an existing resource consent for the operation of four (4) billboards adjacent to State Highway 2.

Access Assessment – 323 The Terrace, Wellington; NM Associates Ltd

November 2010 – December 2010

Traffic Engineer

Assessment of actual and potential resource management related traffic effects associated with a proposed additional crossing to 323 The Terrace, Wellington, within the inner city Te Aro parking area.

Traffic Engineer – Proposed Automotive Engineering Educational Facility at 59 Cuba Street & Associated Campus-Wide Parking and Pedestrian Access Redevelopment Resource Consent Application; Hutt City Council

October 2010 - Ongoing

Consultant Traffic Engineer

Consultant traffic engineer engaged to provide expert traffic and transportation review, and representation of Council at Hearing, of Wellington Institute of Technology (WelTec) proposed Automotive Engineering Educational Facility at 59 Cuba Street & Associated Campus-Wide Parking and Pedestrian Access Redevelopment Resource Consent Application.

Commissioner – Petone Working Men's Club Proposed Conference Centre, Accommodation and Club Facilities; Hutt City Council

September 2010 – October 2010

Independent Commissioner

Independent commissioner appointed to hear the Petone Working Men's Club application for Proposed Conference Centre, Accommodation and Club Facilities.

Safety Audit – Adelaide Road Upgrade; Wellington City Council

September 2010 – Ongoing

Safety Auditor

Safety peer review of concept and detailed designs for the proposed Adelaide Road Upgrade project supporting planned residential and commercial intensification, completion of a key bus priority route and allowing for significant pedestrian and general environmental and amenity improvements.

Consultant Engineer – NZ Speed/Volume and Event/Incident Level of Service; New Zealand Transport Agency

June 2010 - October 2010

Traffic Engineer

Review of existing New Zealand Transport Agency Speed/Volume and Event/Incident data and its possible application to operating Levels of Service.

Safety Review – Manners St / Taranaki St / Dixon St / Courtenay PI Intersection; Wellington City Council

May 2010 – June 2010

Traffic Engineer

Independent safety review of the existing Manners St / Taranaki St / Dixon St / Courtenay PI intersection and the proposed upgrade, as part of the proposed Golden Mile Restoration project to re-route public transport along the cities Golden Mile, and other general 'improvement' options.

Safety Audit – Golden Mile Restoration; Wellington City Council

May 2010 – June 2010

Safety Auditor

Safety audit of proposed Golden Mile Restoration project to re-route public transport along the cities Golden Mile.

Traffic Impact Assessment Review – Gaisford Road Aggregate Extraction; Higgins Aggregate Limited

February 2010

Traffic Engineer

Expert review of existing and likely traffic impacts of resource consent application to excavate aggregate from a terrace, off Gaisford Road, for use in construction of state highway improvement works.

Traffic Impact Assessment Report – Childcare and Retail Centre, Island Bay; Winara Trust

November 2009 – May 2010

Traffic Engineer

Expert assessment of existing and likely traffic impacts from proposed development of first floor child care and ground floor retail centre on The Parade in Island Bay. Resource consent successfully achieved with no submissions in opposition.

Traffic Impact Assessment Report – Aoga Amata (Early Childhood) Centre; Ekalesia Faapotopotoga Kerisiano Samoa (EFKS) – Porirua

August 2009 – October 2009

Traffic Engineer

Expert assessment of existing and likely traffic impacts from the proposed development of the aoga amata centre to cater for an increased roll of up to 100 children from the present maximum licensed role of 70 children.

Consultant Project Engineer – Transmission Gully Project; New Zealand Transport Agency

August 2009 – ongoing

Civil, Traffic and Transportation Engineer

Provision of expert advice and project management services assisting NZTA Transmission Gully project team with the delivery of Phase II, *Engineering and Environmental Assessment*, of the project.

Traffic Impact Assessment Report – Horokiwi Asphalt Plant; Higgins Group Holdings Limited / Pavements Asphalt Ltd

July 2009 – October 2009

Traffic Engineer

Expert assessment of existing and likely traffic impacts from proposed replacement of 60 tonnes per hour (tph) asphalt plant with new plant capable of operating at up to 80tph.

Expert Evidence – Gardens of the World Application for Resource Consent; Resident group ‘Living in Hope’

May 2009 – June 2009

Traffic and Transportation Engineer

Commissioned by resident group ‘Living in Hope’ to report and present expert assessment of traffic and transportation effects, including safety, in opposition to resource consent application for Proposed Commercial Activity and Crematorium by Gardens of the World, Clover Road East, Hope. Resource consent application was declined.

Traffic Engineering Assessment – Pak ‘n Save Appeal to Environment Court; Upper Hutt City Council

April 2009 – November 2009

Traffic Engineer

Commissioned by Upper Hutt City Council to provide expert assessment of traffic effects, including safety, of Pak ‘n Save declined application to periodically alter wording of an existing sign. The appeal was successfully resolved to Council’s satisfaction in Environment Court mediation.

RAMM – Region 9 Database Improvement Project; New Zealand Transport Agency

April 2009 – April 2011

Road and Traffic Engineer

Review of the Region 9 RAMM Database to ensure the NZTA can have confidence that the Wellington (Region 9) RAMM database is complete, fit for purpose, managed, maintained and used effectively by all partners in the CHP Hybrid for asset management, forward work programming, performance recording, as the asset register and primary source for analysis.

Transportation Investigation – Gladstone Green Structure Plan; Horowhenua District Council

March 2009 – May 2009

Traffic Engineer

Transportation investigation of high level framework for the major transportation infrastructure as part of Horowhenua District Councils long term planning for future development and subdivision between Queen Street East, Gladstone Road, Tararua Road and State Highway 57 (Arapaepae Road) as being appropriate for “greenbelt residential” subdivision and development.

Safety Investigation – Pempsey Street and Heretaunga Square; Upper Hutt City Council

March 2009 – May 2009

Traffic Engineer

Safety investigation of perceived speed and safety problems in Pempsey Street and Heretaunga Square following Upper Hutt City Council (UHCC) receipt of a petition (26 submissions plus supporting correspondence) from the residents of Pempsey Street and Heretaunga Square asking Council to investigate resident concerns.

Road Infrastructure Safety Assessment (RISA) - Various; New Zealand Transport Agency

December 2008 – ongoing

RISA Engineer

A Road Infrastructure Safety Assessment is undertaken to assess the state of the infrastructure associated with road safety on a Road Controlling Authority (RCA) rural sealed roads, and to provide this information to the subsequent Technical Review. The objectives of the RISA system are to determine the appropriateness of the road infrastructure to provide a ‘safe’ passage for users, accounting for traffic volumes, and to ensure that measures to eliminate or reduce the identified problems are considered fully by the RCA.

Access Assessment - Social Housing Intensification; urbanplus (Lower Hutt City Council)

December 2008 – September 2009

Traffic Engineer

Comparative assessment of actual and potential resource management related traffic effects associated with a proposed Social Housing Intensification project.

2008/2009 Block Funded Projects Audit Review; New Zealand Transport Agency

October 2008 – June 2009

Consultant

Assessment and materiality review of existing audits of national Block funded projects.

2008/2009 State Highway Programme; New Zealand Transport Agency

October 2008 – June 2009

Consultant

Review and assessment of proposed 2008/2009 State Highway Programme.

Construction Traffic Management Plan; Chilton Saint James School

August 2008 – May 2009

Traffic Engineer

Preparation of Construction Traffic Management Plan for Stage 1 of Chilton Saint James School proposed refurbishment programme.

Greater Wellington Real Time Passenger Information System; Greater Wellington Regional Council

April 2008

Project Manager

Successfully secured commission to assist Greater Wellington Regional Council in its procurement of a Greater Wellington Real Time Passenger Information System, for the design and system development of the proposal, to the stage of contracting with a supplier for the implementation of the system.

Access Assessment; Chilton Saint James School

October 2007 – December 2008

Traffic Engineer

Comparative assessment of actual and potential resource management related traffic effects associated with the possible refurbishment of Chilton Saint James School.

Horowhenua District Private Plan Change – Tararua Road; NZ Wise Holdings Limited

September 2007 – December 2007

Traffic and Transportation Engineer

Comparative assessment of actual and potential traffic related effects associated with the successful private plan change to the Horowhenua District Plan facilitating a business park and residential development.

Kapiti Rail Stations Concept Design, Greater Wellington Regional Council

September 2007

Project Manager

Assessment of options for both new and upgraded rail stations within the Kapiti Coast.

Alternative Access Assessment, Catholic Schools Board

September 2007

Traffic Engineer

Assessment of options for independent access to the subdivided Presbytery to separate non-school traffic from school (Bishop Viard College) traffic.

Dynamic Lane Line Application Investigation, Wellington City Council

July 2007 – April 2008

Traffic Engineer

Draft Practice Guideline for the proposed use and implementation of on-road Dynamic Lane Line (DLL) marking and associated signage.

Region 9 Passing Lanes 2005/06, Transit New Zealand

October 2005 – August 2008

Team Leader, Design Manager, Traffic Engineer and Economic Analyst

Investigation, planning, public consultation, scheme assessment, preliminary design, detailed design, documentation, contract administration and supervision of five passing opportunities on SH 1 and SH 2, including existing passing opportunities. Presentation of evidence at RMA hearings.

Port Planning & Rail Integration Study, CentrePort / Toll

March 2005 – November 2005

Traffic & Transportation Engineer

Preparation of a Master Plan, finalised via simulation, to define all works and facilities required for a fully functioning co-ordinated CentrePort/Toll container port integrated within the larger CentrePort port handling conventional cargo. Issues covered include port layout, rail/road connections, ISPS requirements for both international and domestic cargo, aimed at a harmonised and coordinated handling approach, associated manpower and organisational requirements. Identification of improvements that can be made to current operations to increase efficiency and effectiveness is also provided.

SH 1 Western Corridor Transportation Study (WCTS), Greater Wellington Regional Council / Transit New Zealand

October 2004 – November 2005

Project Team Coordinator, Northern Design Manager and Traffic/Transportation Engineer

Preliminary design, feasibility assessment, risk analysis and costing, planning and public consultation of all transportation issues associated with the Wellington Regional Western Transportation Corridor from North of Waikanae to Ngauranga, an approximate length of 56km. The study considered improvements to all modes of transportation within the corridor (e.g. car, bus, truck, passenger rail, rail freight, walking, cycling) along with strategies to manage travel demand, corridor access and funding. The study will also take account of key east-west routes linking to the Eastern Transportation Corridor through the Hutt Valley.

SH 1 Foxton South Curves, Transit New Zealand

December 2003 – August 2008

Team Leader, Design Manager, Traffic Engineer and Economic Analyst

Investigation, planning, public consultation, scheme assessment, preliminary design, detailed design and documentation of 2.7 km realignment of SH 1 including bridge replacement.

SH 1 / Old Hautere Road Safety Improvements, Transit New Zealand

December 2003 – December 2004

Team Leader, Design Manager, Traffic Engineer and Economic Analyst

Investigation, planning, public consultation, scheme assessment and preliminary design of safety improvements to the intersection of SH 1 and Old Hautere Road. This project had the objective of identifying and analysing appropriate safety improvements without the need to designate or purchase additional land.

Urban Development Protocols, Wellington City Council

September 2003

Senior Civil Engineer

Documentation of protocols and processes to be introduced between Wellington City Council's City Development (CD) and Roading Traffic and Transportation (RT&T) groups.

Energy Efficiency of Heavy Vehicles - Scoping Paper, Energy Efficiency and Conservation Authority

March 2003 – September 2003

Team Leader, Traffic & Transportation Engineer

Scoping Paper identifying the scale of investigation for a better understanding of heavy vehicle energy efficiency measures in New Zealand to assist the New Zealand Energy Efficiency and Conservation Authority (EECA) to provide an awareness of energy efficiency to buyers, drivers and operators of heavy vehicles.

Site Development Impacts, Papakura District Council

February 2003 – April 2003

Traffic & Transportation Engineer

Assessment of expected generated traffic impacts resulting from the development of a major site adjacent to the Great South Road / Walters Road roundabout in South Auckland using the AIMSUN2 (Advanced Interactive Microscopic Simulator for Urban and Non-urban Networks) traffic modelling software.

SH 1 North Otaki to Peka Peka Road Four Laning, Transit New Zealand

October 2002 – June 2004

Investigation Manager, Traffic Engineer and Economic Analyst

Consultation, assessment, traffic and economic analysis of options investigating the long term upgrade of this section of SH 1. Preferred option for detailed public consultation is a four lane expressway.

SH 1 Picton to Blenheim Passing Lanes, Transit New Zealand

September 2002 – August 2008

Traffic Engineer and Economic Analyst

Traffic and economic analysis of options investigating four passing opportunities over approximately 20 kilometres of SH 1, including existing passing opportunities. Presentation of evidence at RMA hearing.

An Integrated Traffic Model for Auckland Cities, Transfund New Zealand

2001/2002

Traffic & Transportation Engineer

Research project attempting to demonstrate and quantify benefits of an integrated approach to traffic signalisation and management across the boundaries of Transit NZ and Local Authority jurisdictions. Responsible for micro-simulation using the AIMSUN2 traffic modelling software to evaluate the performance of the existing network before and after optimisation of network traffic signal settings (determined from TRANSYT/11).

Traffic Assessment, Ministry of Education

August 2002

Traffic Engineer

Comparative assessment of actual and potential resource management related traffic effects associated with the re-establishment of the Wood Hatton Playcentre.

Traffic Assessment, Catholic Schools Board

July 2002

Traffic Engineer

Comparative assessment of actual and potential resource management related traffic effects associated with the long-term re-development of the Holy Cross School.

Comparative Traffic Effects Assessment, New Zealand Fire Service

November 2001

Traffic Engineer

Comparative assessment of actual and potential resource management related traffic effects associated with possible alternative fire station sites.

SH 1 Oaro Passing Opportunities, Transit New Zealand

November 2001

Traffic Engineer and Economic Analyst

Traffic and economic analysis of options investigating passing opportunities of approximately 2.0 kilometres of SH 1 including a 1 km passing lane and additional slow vehicle bays.

SH 1 Saltwater Creek Realignment, Transit New Zealand

October 2001

Traffic Engineer and Economic Analyst

Traffic and economic analysis of options investigating the realignment of ~1.2 kilometres of SH 1.

SH 7 Hay Paddock Hill Corner Realignment, Transit New Zealand

August 2001

Traffic Engineer and Economic Analyst

Traffic and economic analysis of options investigating the realignment of ~1.0 kilometres of SH 7.

SH 1 Chertsey Line Rail Crossing, Transit New Zealand

August 2001

Traffic Engineer and Economic Analyst

Traffic and economic analysis of options investigating the upgrading of the SH 1 level rail crossing adjacent to Chertsey Road and the installation of right turn bays.

SH 1 Blenheim Upgrade, Transit New Zealand

February 2001

Safety Auditor

Second team member for stage IV post construction safety audit of 1.5 kilometre realignment of SH 1, incorporating three roundabouts, new bridge, rail realignment and rail crossings, through urban Blenheim. Presentation of evidence at RMA hearing.

SH 1 Otaihanga Road Intersection Upgrade, Transit New Zealand

February 2001 – July 2002

Deputy Team Leader, Design Manager, Traffic Engineer and Economic Analyst

Crash reduction study, investigation, planning, public consultation, scheme assessment, preliminary design, detailed design, documentation, contract administration and supervision of upgrade of 2.1 kilometres of SH 1 incorporating the intersection with Otaihanga Road.

SH 1 Southern Motorway Micro-simulation Study, Transit New Zealand

June 2000 – July 2001

Traffic & Transportation Engineer

Modelling of SH 1 Southern Motorway network from the Ellerslie/Penrose interchange to the Manukau/Redoubt Road interchange using AIMSUN2 traffic modelling software. AIMSUN2 was used to evaluate the performance of the existing motorway, identify deficiencies, identify improvement options and assess the impacts of the proposed Waiouru Interchange project.

SH 1 Pukehou to MacKays Crossing Strategy Study, Transit New Zealand

January 2000 – July 2001

Traffic Engineer and Economic Analyst

Responsible for overseeing the traffic engineering and economic analysis aspects of the Preliminary Feasibility Reports.

Broderick Road / Moorefield Road Intersection Crash Reduction Study and Options Investigation, Wellington City Council

October 1999 – June 2000

Team Leader, Traffic Engineer and Economic Analyst

Responsible for managing the Crash Reduction Study and Investigation of Options. Undertook the traffic and economic analysis.

SH 58 Haywards Upgrade, Transit New Zealand

March 1998 – June 2005

Deputy Team Leader, Design Manager, Traffic and Economic Analyst

Crash reduction study, investigation, planning, public consultation, scheme assessment, preliminary design, detailed design, documentation, contract administration and supervision of Four Lane Safety Improvement upgrade 5 km of SH 58 incorporating three intersections including the grade separation of the intersection of SH 58 with SH 2. Presentation of evidence at RMA hearing and resolution of associated appeals to the Environment Court.

Ministry of Transport Fleet Emission Control Strategy

September 1998 – September 1999

Traffic & Transportation Engineer

Modelling of Newmarket (Auckland City) and Northwestern Christchurch City roading networks using AIMSUN2 traffic modelling software to demonstrate the application of traffic models in determining Vehicle Fleet Emissions as part of the Ministry of Transport Fleet Emission Control Strategy.

SH 1 Capacity Study from Basin Reserve to Kilbirnie Crescent, Transit New Zealand

August 1998 – August 1999

Deputy Team Leader, Design Manager, Traffic Engineer and Economic Analyst

Study of options to reduce congestion and accidents between the Basin Reserve and Kilbirnie Crescent. Included consideration of four lane options and tunnel alternatives.

SH 1 Himatangi to Waikanae Strategy Study, Transit New Zealand

July 1998 – October 2002

Traffic Engineering Review

Responsible for reviewing the Preliminary Feasibility Report aspects of the study including economic analysis.

SH 1 Ngauranga Gorge Advanced Traffic Management System, Transit New Zealand

January 1996 – February 1998

Project Manager

Scoping, investigation and preliminary design of a (New Zealand first) Advanced Traffic Management System.

Auckland Motorways Advanced Traffic Management System, Transit New Zealand

January 1996 – February 1998

Project Management Peer Review

Employment History

<i>Period</i>	<i>Company</i>	<i>Position Held</i>
September 2008 onwards	Statham Consulting Limited	Director
March 1998 – August 2008	Maunsell AECOM (now AECOM)	Principal Engineer, Team Leader Traffic and Transportation (Wellington)
March 1995 – February 1998	Transit New Zealand (now New Zealand Transport Agency)	Regional Area Engineer, Project Manager
February 1993 – February 1995	Transit New Zealand (now New Zealand Transport Agency)	Asset Engineer