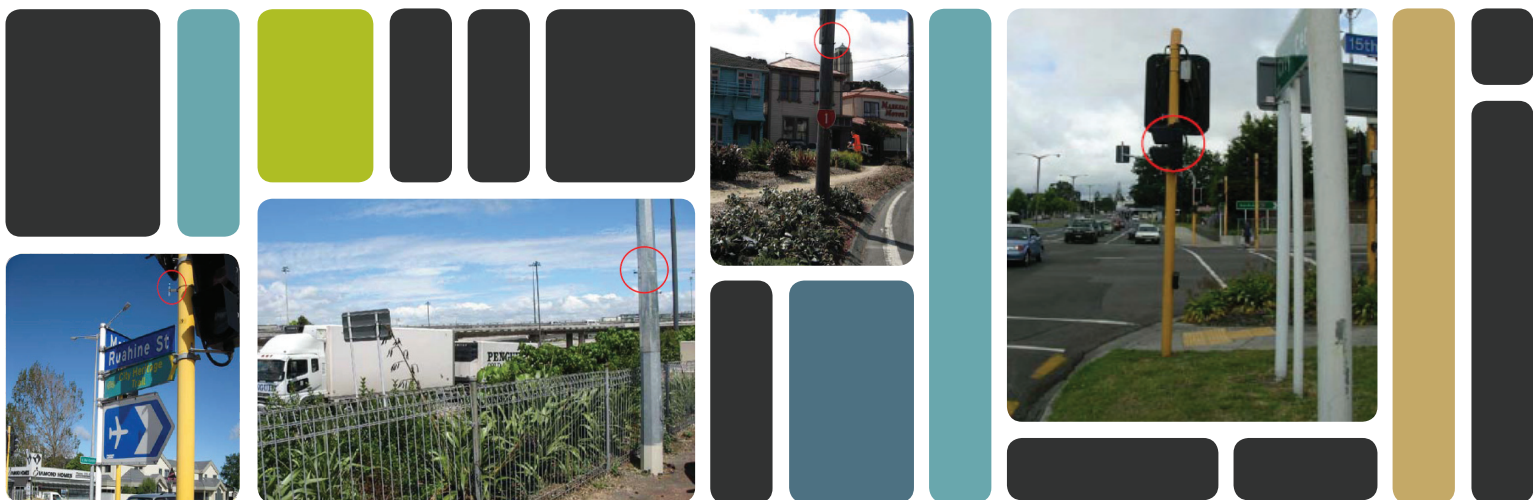


Ambient air quality (nitrogen dioxide) monitoring network - site metadata report 2007-2011



Ambient air quality (nitrogen dioxide) monitoring network - site metadata report 2007 to 2011

Prepared for
New Zealand Transport Agency (NZTA)

By


water Care
services limited
Laboratory Services
Air Quality Department

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Introduction

The NZ Transport Agency (NZTA) is a Crown entity responsible for, among other things, managing 10,894 kilometres of state highways. The state highway system accounts for about 12 percent of New Zealand's roads and around half of the 40 billion vehicle kilometres New Zealanders travel each year¹. Motor vehicles travelling on roads emit an array of air pollutants which can contribute to harmful effects on human health and smog formation.

Section 96(1)(a) of the Land Transport Management Act requires that the NZTA exhibit a sense of social and environmental responsibility. The NZTA promotes an accessible and safe transport system that contributes positively to New Zealand's economic, social and environmental welfare and is committed to acting in an environmentally and socially responsible manner. Giving effect to this policy, the NZTA's Environmental Plan² presents approaches and implementation plans for a range of environmental and social impacts arising from the state highway network. The specific objectives for improving air quality include:

- A1. Understand the contribution of vehicle traffic to air quality
- A2. Ensure new state highway projects do not directly cause national environmental standards for ambient air quality to be exceeded
- A3. Contribute to reducing emissions where the state highway network is a significant source of exceedances of national ambient air quality standards

Annual assessment of vehicle emissions from the state highway network is undertaken using data gathered from selected sites using passive samplers to measure nitrogen dioxide (NO₂) as a general proxy for air pollution from motor vehicles. The World Health Organisation (WHO) states³ that:

"Nitrogen dioxide concentrations closely follow vehicle emissions in many situations, so nitrogen dioxide levels are generally a reasonable marker of exposure to traffic-related emissions."

In 2007, NZTA started a national NO₂ passive monitoring programme to determine relative levels of vehicle pollution across the state highway network. As at the end of 2011, diffusion tubes (a type of passive sampler) are now deployed in 128 sites across New Zealand (including state highway, local road and background locations). The overall aim is to see a decreasing trend in NO₂ concentrations measured at these sites.

This report presents the metadata for all sites (past and current) that have been part of the NZTA national NO₂ passive monitoring network sites since 2007 to end 2011 and includes the following:

- Summary tables listing all sites by monitoring zone from 2007 to 2011
- Maps showing the coverage of the national network in each year from 2007 to 2011
- Individual one-page descriptions for each site ordered by monitoring zone outlining critical details such as location, type and the distance to nearest roads/receptors

¹ MoT (2011). *The New Zealand vehicle fleet, Annual fleet statistics 2010*, Ministry of Transport, dated March 2011 but updated in August 2011.

² Transit (2008). *Environmental Plan, version 2*, Transit New Zealand, June 2008. Note: Transit New Zealand merged with Land Transport New Zealand to form the NZ Transport Agency on 1 August 2008.

³ WHO (2006). *Air quality guidelines global update 2005: Particulate matter, ozone, nitrogen dioxide, and sulphur dioxide*, World Health Organisation, October 2006.

This report is intended to complement the 2007-2011 monitoring report⁴, which details the results and trends from the passive sampling programme since its inception.

Monitoring zones

NZTA monitoring zones have been established for each main urban area⁵ in New Zealand, as well as for Taupo, Otaki, Blenheim, Greymouth and Queenstown. The number of monitoring sites within each zone reflects the risk of being exposed to elevated levels of air pollution arising from vehicles using the state highway network. This is based on the population of urban areas in each zone.

In 2007 and 2008, there were 53 locations monitored throughout New Zealand. NZTA expanded the network in 2009 to include background and local road sites and then undertook a further significant expansion in 2010 to improve coverage. As at the end of 2011, the national network now covers 128 locations. Table 1 summarises the number of monitoring sites in each zone.

Table 1: The number of monitoring sites in each zone from 2007 to 2011

Monitoring zone	Population in 2006 (000's)	Site type	Number of sites*				
			2007	2008	2009	2010	2011
Whangarei	49	SH	1	1	1	1	1
		Background	-	-	1	2	1
Auckland - Northern	248	SH	3	3	7	6	6
		Local	1	1	4	4	4
		Background	-	-	1	1	1
Auckland - Western	192	SH	1	1	5	5	5
		Local	-	-	4	4	4
		Background	-	-	1	1	1
Auckland - Central	396	SH	6	6	6	6	6
		Local	-	-	5	5	5
		Background	1	1	1	1	1
Auckland - Southern	372	SH	4	4	6	6	6
		Local	-	-	3	3	3
		Background	-	-	1	1	1
Hamilton	155	SH	3	3	3	5	5
		Local	-	-	-	3	3
		Background	-	-	-	1	1

⁴ NZTA (2012). *Ambient air quality (nitrogen dioxide) monitoring network - annual report 2007-2011*, NZ Transport Agency, June 2012.

⁵ The NZTA monitoring zones reflect the "urban areas" used by Statistics New Zealand. The urban area classification is designed to identify concentrated urban or semi-urban settlements without the distortions of administrative boundaries. Three types of urban areas are defined – main, secondary and minor – and these are delineated by population. See www.stats.govt.nz/census/about-2006-census/2006-census-definitions-questionnaires/definitions/geographic.aspx for details.

Monitoring zone	Population in 2006 (000's)	Site type	Number of sites*				
			2007	2008	2009	2010	2011
Cambridge	15	SH	1	1	1	1	1
Te Awamutu	14	SH	-	-	-	1	1
Taupo	22	SH	1	1	1	1	1
Tauranga	109	SH	3	3	3	4	4
		Local	-	-	-	2	2
		Background	-	-	-	1	1
Rotorua	54	SH	1	1	1	1	1
		Background	-	-	-	1	1
Gisborne	33	SH	1	1	1	1	1
Napier	56	SH	2	2	2	2	2
		Background	-	-	-	1	1
Hastings	62	SH	1	1	1	1	1
		Background	-	-	-	1	1
New Plymouth	49	SH	1	1	1	1	1
		Background	-	-	-	1	1
Wanganui	39	SH	1	1	2	1	1
Palmerston North	76	SH	1	1	1	3	3
		Local	-	-	-	1	1
		Background	-	-	-	1	1
Otaki	5	SH	-	-	-	1	1
Kapiti	37	SH	1	1	1	1	1
Upper Hutt	36	SH	-	-	-	1	1
		Background	-	-	-	1	1
Lower Hutt	97	SH	2	2	3	3	3
		Local	-	-	-	1	1
		Background	-	-	-	1	1
Porirua	48	SH	1	1	1	1	1
Wellington	179	SH	2	2	4	6	5
		Local	-	-	-	3	3
		Background	-	-	-	2	2
Nelson	56	SH	3	3	3	3	3
		Background	-	-	-	1	1

Monitoring zone	Population in 2006 (000's)	Site type	Number of sites*				
			2007	2008	2009	2010	2011
Blenheim	29	SH	1	1	1	1	1
Christchurch	361	SH	3	3	3	6	6
		Local	-	-	-	4	4
		Background	1	1	1	2	2
Greymouth	10	SH	1	1	1	1	1
Dunedin	111	SH	2	2	2	3	4
		Local	1	1	1	3	3
		Background	-	-	-	1	1
Queenstown	10	SH	1	1	1	1	1
Invercargill	47	SH	1	1	1	1	1
		Background	-	-	-	1	1
Grand Total			53	53	86	130	129

* Note: the number of sites includes all sites that had data for the current year. Therefore, if a site was relocated to another location in a particular year but both locations have at least one month's data for that year then both sites are counted in this table.

Monitoring sites in the NZTA national NO₂ passive monitoring network are classified as:

- *State highway* sites, which are located within 100m of the highway being monitored
- *Local road* sites, which are located within 50m of the road being monitored
- *Urban background* sites, which are located more than 100m from a state highway and more than 50m from a busy local road

Monitoring locations

Table 2 summarises the metadata for all sites that were operational between 2007 and 2011.

Figures 1 to 5 illustrate how the monitoring network has developed from 2007 to 2011.

Table 2: Summary of metadata for the NZTA national ambient NO₂ monitoring network for sites for 2007 to 2011

Site metadata summary										
Monitoring zone	Site ID	Site name	Area	NZTM easting	NZTM northing	Distance to sensitive receptor (m)	Site type	State highway	Distance to SH (m)	Distance to local road (m)
Whangarei	AUC001	Western Hills Dr / Selwyn Ave	Woodhill	1718908	6046054	10	SH	1	1	350
	AUC038	Huia St (relocated to AUC171)	Whau Valley	1717812	6048753	10	Background	1	880	95
	AUC171	Korau Rd (relocated from AUC038)	Tikipunga	1720175	6049513	5	Background	1	1535	80
Auckland - Northern	AUC004	Grand Dr / Tauranga Pl	Orewa	1750060	5949364	50	SH	1A	1	895
	AUC005	Northern Motorway / Fairview Ave	Albany	1753063	5935161	120	Local	1	160	2
	AUC006	Northern Motorway / Curry Ln (relocated to AUC170)	Westlake	1755497	5928947	25	SH	1	5	35
	AUC007	Northern Motorway / Sulphur Beach Rd	Northcote	1756065	5923935	5	SH	1	11	610
	AUC039	Albany Highway / Ashby Pl	Unsworth Heights	1752018	5930500	8	SH	18	60	330
	AUC040	Upper Harbour Dr / William Pitcher Pl	Greenhithe	1749755	5928069	15	SH	18	12	270
	AUC041	Glenfield Rd / Sunset Rd	Glenfield	1753390	5929775	5	Local	18	1115	1
	AUC042	Lake Rd / Service Ln	Takapuna	1758078	5927136	5	Local	1	1590	1
	AUC043*	Northern Motorway / Wairau Rd (AC Takapuna) * = triplicate site	Takapuna	1756069	5928070	50	SH	1	50	45
	AUC044*									
	AUC045*									
	AUC046	Lake Rd / Esmonde Rd	Takapuna	1758428	5926591	5	Local	1	1425	2
	AUC047	Woodcote Dr	Marlborough	1753696	5927375	10	Background	1	2530	60
AUC170	Northern Motorway / Tristram Ave (relocated from AUC006)	Westlake	1755482	5928973	25	SH	1	5	5	
Auckland - Western	AUC020	North Western Motorway / Cedar Heights Ave	Massey East	1744601	5921792	10	SH	16	90	170
	AUC048	North Western Motorway / Te Atatu Rd	Te Atatu	1747262	5919849	40	SH	18	2	2
	AUC049	Hobsonville Rd / Carnegie Cres	Hobsonville	1747244	5926410	5	SH	18	10	710
	AUC050	SH16 / Kennedys Rd	Whenuapai	1742258	5926703	7	SH	16	4	155

Site metadata summary										
Monitoring zone	Site ID	Site name	Area	NZTM easting	NZTM northing	Distance to sensitive receptor (m)	Site type	State highway	Distance to SH (m)	Distance to local road (m)
	AUC051	North Western Motorway / Taitapu St	Massey East	1745021	5921302	8	SH	16	70	195
	AUC052	Henderson Valley Rd / Hickory Ave	Henderson	1745187	5916791	15	Local	16	3450	5
	AUC053	Te Atatu Rd / Edmonton Rd	Te Atatu South	1746835	5918811	5	Local	16	930	3
	AUC054*	Lincoln Rd / Henderson Intermediate (AC Henderson) * = triplicate site	Henderson	1745143	5918530	20	Local	16	2095	7
	AUC055*									
	AUC056*									
	AUC057*	Meadowvale Rd / Ceramco Park (AC Glen Eden) * = triplicate site	Glen Eden	1747149	5912480	10	Background	16	6160	250
	AUC058*									
	AUC059*									
AUC063	Great North Rd / Rata St	New Lynn	1749443	5913945	3	Local	20	4140	10	
Auckland - Central	AUC008	Northern Motorway / St Mary's Bay Rd	St Mary's Bay	1755662	5921138	10	SH	1	70	280
	AUC009	CMJ / Canada St	Newton	1756811	5919276	20	SH	1	20	130
	AUC011	Southern Motorway / Mt Hobson Rd	Remuera	1758969	5917106	10	SH	1	10	390
	AUC013*	Southern Motorway / Gavin St (AC/MfE Penrose) * = triplicate site	Penrose	1761757	5914171	45	SH	1	100	210
	AUC014*									
	AUC015*									
	AUC021	Waterbank Cres	Waterview	1751684	5917742	10	Background	16	150	260
	AUC022	North Western Motorway / Niger St	Arch Hill	1755717	5918398	10	SH	16	32	110
	AUC025	Hugh Watt Dr / Melrose Rd	Hillsborough	1756246	5912958	5	SH	20	40	215
	AUC060	New North Rd / Mount Albert Rd	Mt Albert	1752882	5916590	3	Local	16	1515	1
	AUC061	Great South Rd / Green Ln East	Greenlane	1759925	5915778	8	Local	1	255	2
	AUC062	Ellerslie Panmure Highway / Mountain Rd	Panmure	1764307	5914946	10	Local	1	2300	3
	AUC064	Sandringham Rd / Kowhai Intermediate (MfE Kingsland)	Kingsland	1755692	5917809	2	Local	16	470	4
AUC071	Mangere Rd / Walmsley Rd	Otahuhu	1763685	5908918	3	Local	1	1670	1	

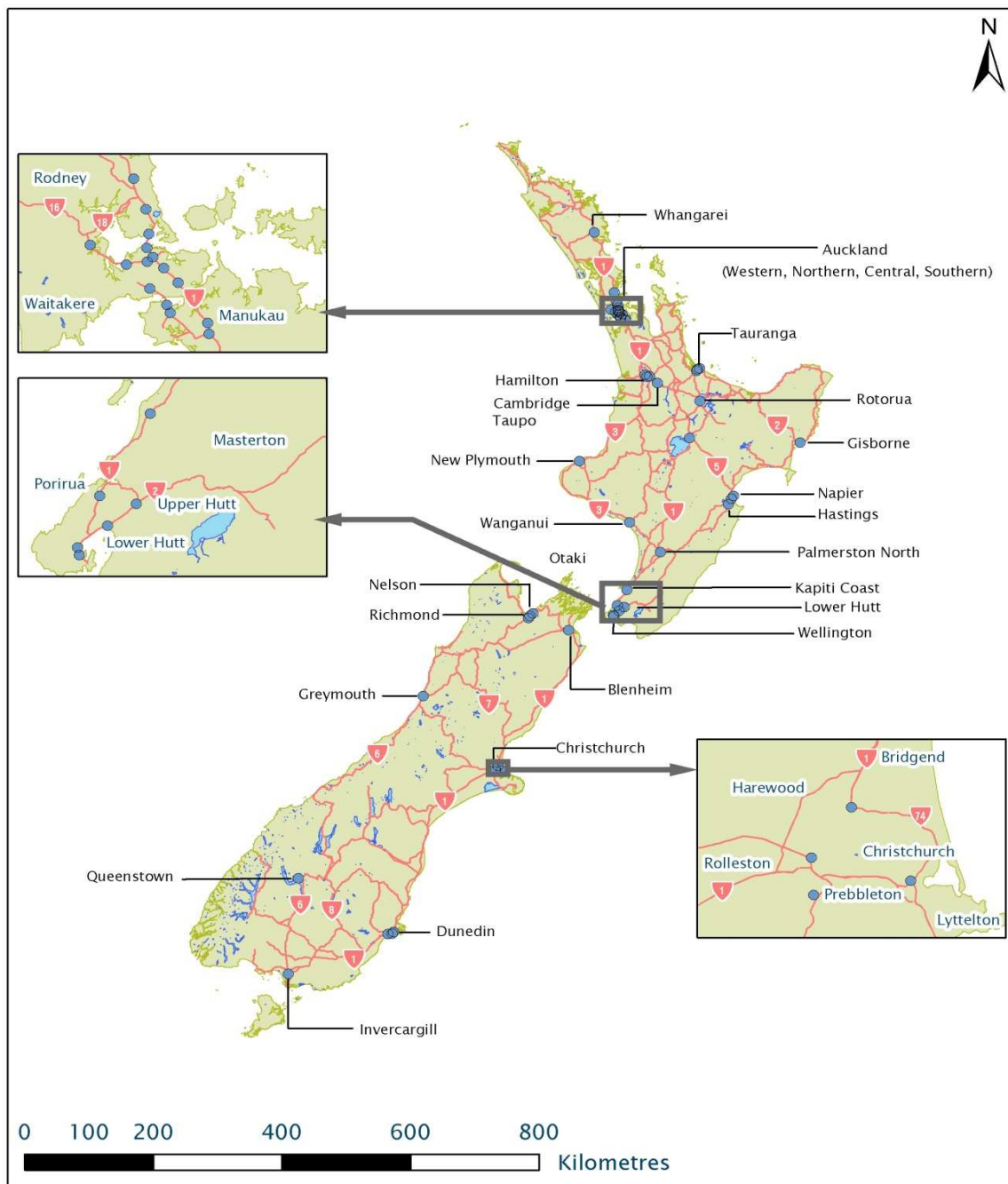
Site metadata summary										
Monitoring zone	Site ID	Site name	Area	NZTM easting	NZTM northing	Distance to sensitive receptor (m)	Site type	State highway	Distance to SH (m)	Distance to local road (m)
Auckland - Southern	AUC018	Southern Motorway / Waimate St	Flat Bush	1767463	5906047	20	SH	1	60	250
	AUC019	Southern Motorway / Liggett Dr	Manukau	1767713	5903803	10	SH	1	100	60
	AUC026	South Western Motorway / Hastie Ave	Mangere Bridge	1759570	5909661	5	SH	20	25	270
	AUC027	South Western Motorway / Ashmore Pl	Mangere	1760189	5908083	5	SH	20	20	490
	AUC067	South Western Motorway / Massey Rd	Mangere East	1761844	5906521	6	SH	20	20	85
	AUC068	George Bolt Dr / Kirkbride Rd	Mangere	1759293	5906550	10	SH	20A	2	2
	AUC069	Bairds Rd / Otara Rd	Otara	1766535	5908095	5	Local	1	605	10
	AUC070	Dominion Rd / Settlement Rd	Papakura	1774740	5896065	25	Local	1	3440	5
	AUC072	Pakuranga Rd / Bell Reserve (AC Pakuranga)	Pakuranga	1768412	5913942	5	Local	1	4320	3
	AUC073	Oakridge Way (AC Botany)	Botany	1771370	5912359	10	Background	1	7040	250
Hamilton	HAM001	Cambridge Rd / Morrinsville Rd	Hillcrest	1804416	5813725	40	SH	1	3	240
	HAM002	Avalon Dr / Grandview Rd	Nawton	1797762	5816739	40	SH	1	3	20
	HAM003	Lorne St / Ohaupo Rd	Melville	1800756	5813015	2	SH	1 & 3	1	5
	HAM012	Te Rapa Rd / Ann Michele St	Pukete	1795724	5821363	8	SH	1	4	910
	HAM013	Greenwood St / Killarney Rd	Frankton	1799056	5814544	10	SH	1	1	1
	HAM014	Victoria St / Ulster St	Beerescourt	1799295	5817333	31	Local	1	1670	1
	HAM015	Brooklyn Rd / Peachgrove Rd	Claudelands	1801984	5816917	20	Local	1	3400	3
	HAM016	Bridge St / Cobham Dr	Hamilton West	1801223	5814608	7	Local	1	1190	1
	HAM017	Seamer Pl	St Andrews	1798688	5819138	10	Background	1	1665	93
Cambridge	HAM004	Victoria St / Queen St	Cambridge	1816991	5803351	15	SH	1	1	30
Te Awamutu	HAM022	Ohaupo Rd / Albert Park Dr	Te Awamutu	1804490	5790839	5	SH	3	1	80
Taupo	HAM005	Tongariro St / Norman Smith St	Taupo	1866997	5714268	60	SH	1	2	5
Tauranga	HAM007	Fifteenth Ave / Cameron Rd	Tauranga South	1878044	5822402	45	SH	2A	2	2

Site metadata summary										
Monitoring zone	Site ID	Site name	Area	NZTM easting	NZTM northing	Distance to sensitive receptor (m)	Site type	State highway	Distance to SH (m)	Distance to local road (m)
	HAM008	Maunganui Rd / Golf Rd	Mt Maunganui	1882910	5826562	30	SH	2	2	30
	HAM010	Marsh St / Chapel St	Tauranga	1879269	5825395	60	SH	2	2	2
	HAM018	SH2 / Maunganui Rd	Te Maunga	1884544	5824456	50	SH	2	2	810
	HAM019	Bellevue Rd / Otumoetai Rd	Brookfield	1876492	5823919	20	Local	2	1040	2
	HAM020	Cameron Rd / Twentythird Ave	Gate Pa	1877026	5821388	15	Local	2	1090	3
	HAM021	Seaforth Gr	Greerton	1875811	5819200	5	Background	29	360	280
Rotorua	HAM006	Old Taupo Rd / Pukuatua St	Rotorua	1883582	5774041	40	SH	30A & 5	3	40
	HAM023	Lightheart St	Glenholme	1884716	5772827	10	Background	5	880	170
Gisborne	NAP001	Wainui Rd / Craig Rd	Gisborne	2038946	5707152	5	SH	35	2	190
Napier	NAP002	Napier Hastings Motorway / Meeanee Rd	Jervoistown	1931872	5616278	40	SH	50	3	2
	NAP003	Hyderabad Rd / Georges Dr	Marewa	1935394	5620994	10	SH	2	3	70
	NAP006	Hastie Pl	Onekawa	1934262	5618615	15	Background	50	800	600
Hastings	NAP004	Napier Hastings Motorway / Omaha Rd	Woolwich	1927501	5607387	180	SH	50A	20	10
	NAP005	Amanda Pl	Mayfair	1931267	5605429	15	Background	2	230	100
New Plymouth	WAN001	Northgate / Paynters Ave	Fitzroy	1695561	5676854	50	SH	3	1	140
	WAN009	Benbow Pl	Westown	1691914	5674457	5	Background	45	1360	240
Wanganui	WAN002	London St / Grey St (relocated to WAN010)	Wanganui	1773681	5578142	50	SH	3	1	70
	WAN010	London St / Grey St (relocated from WAN002)	Wanganui	1773776	5578231	10	SH	3	1	60
Palmerston North	WAN004	Rangitikei St / Featherston St	Palmerston Nth Central	1821340	5530133	20	SH	3	1	1
	WAN005	Pioneer Hwy / Maxwells Line	Awapuni	1818864	5527893	30	SH	56	1	35
	WAN006	Main St / Ruahine St	Terrace End	1823226	5530270	40	SH	3	1	10
	WAN007	Pitt St / Ferguson St	West End	1821556	5528890	20	Local	3	920	1

Site metadata summary										
Monitoring zone	Site ID	Site name	Area	NZTM easting	NZTM northing	Distance to sensitive receptor (m)	Site type	State highway	Distance to SH (m)	Distance to local road (m)
	WAN008	Tyndall St	Roslyn	1822113	5531385	5	Background	3	1250	100
Otaki	WEL061	State Highway 1 / Mill Rd	Otaki	1782095	5485605	15	SH	1	3	5
Kapiti	WEL004	Ihakara Street (relocated to WEL063)	Paraparaumu	1768605	5467998	20	SH	1	3	610
	WEL063	Main Rd South / Rimutaka St (relocated from WEL004)	Paraparaumu	1769627	5469035	20	SH	1	5	680
Upper Hutt	WEL057	River Rd / Totara Park Rd	Clouston Park	1774749	5446335	20	SH	2	2	5
	WEL058*	GWRC Savage Park * = triplicate site	Upper Hutt	1773803	5445683	21	Background	2	600	69
	WEL059*									
	WEL060*									
Lower Hutt	WEL002	Western Hutt Rd / Manor Park Rd	Manor Park	1765598	5441729	180	SH	2	1	485
	WEL003	Western Hutt Rd / Riddlers Cres	Petone	1757206	5435187	8	SH	2	40	150
	WEL028*	Western Hutt Rd / Block Rd (GWRC Melling Station) * = triplicate site	Boulcott	1759881	5436960	5	SH	2	10	50
	WEL029*									
	WEL030*									
	WEL052	Western Hutt Rd / Pharazyn St	Boulcott	1759667	5436831	12	SH	2	15	185
	WEL053	Knights Rd / Bloomfield Tce	Lower Hutt	1759934	5436058	20	Local	2	828	1
	WEL054*	GWRC Birch Lane * = triplicate site	Waterloo	1761034	5435864	8	Background	2	1595	100
	WEL055*									
WEL056*										
Porirua	WEL005	Johnsonville Porirua Motorway / Titahi Bay Rd	Porirua	1754930	5444242	30	SH	1	50	5
Wellington	WEL007	Wellington Urban Motorway / Bolton St	Lambton	1748501	5428612	15	SH	1	30	175
	WEL008	Rugby St / Sussex St	Mt Cook	1748917	5426328	15	SH	1	2	95
	WEL027	Johnsonville Porirua Motorway / Helston Rd (relocated to WEL064)	Johnsonville	1751754	5435077	5	SH	1	100	5

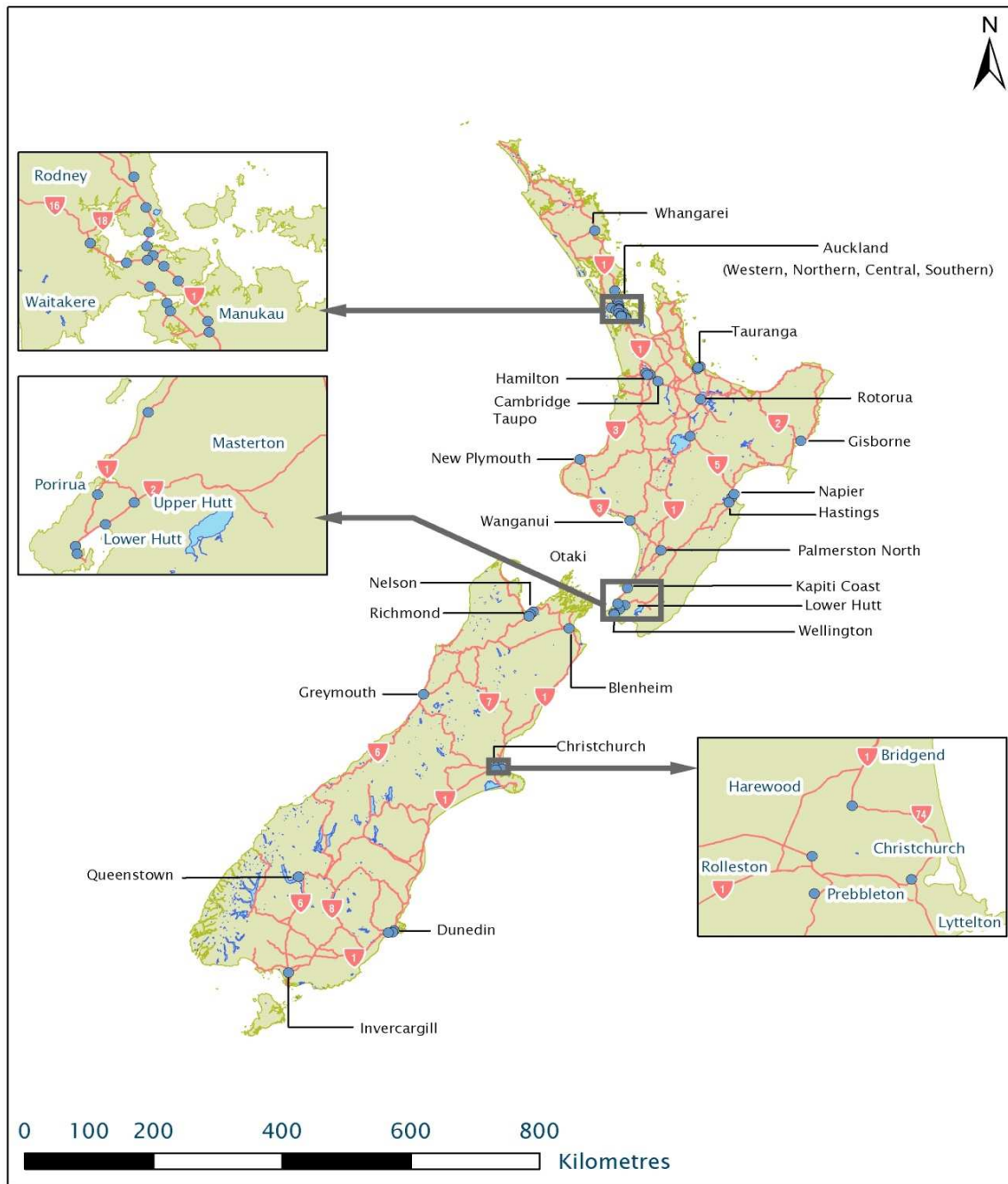
Site metadata summary										
Monitoring zone	Site ID	Site name	Area	NZTM easting	NZTM northing	Distance to sensitive receptor (m)	Site type	State highway	Distance to SH (m)	Distance to local road (m)
	WEL031*	Vivian St / Victoria St (GWRC Corner V) * = triplicate site	Te Aro	1748455	5427079	15	SH	1	7	5
	WEL032*									
	WEL033*									
	WEL034*	GWRC Duncan Park * = triplicate site	Linden	1753584	5442139	18	Background	1	585	60
	WEL035*									
	WEL036*									
	WEL047	Karori Rd / Campbell St	Karori	1745617	5428203	10	Local	1	2895	1
	WEL048	Thames St	Island Bay	1748544	5422507	1	Background	1	2870	150
	WEL049	Riddiford St / Mein St	Newtown	1748907	5425194	15	Local	1	1090	1
	WEL050	Wellington Rd / Hamilton Rd	Kilbirnie	1750102	5425039	2	SH	1	4	195
	WEL051	Miramar Ave / Hobart St	Miramar	1752043	5424476	3	Local	1	575	4
WEL064	Johnsonville Porirua Motorway / Helston Rd (relocated from WEL004)	Johnsonville	1751625	5435095	7	SH	1	7	5	
Nelson	WEL009	Haven Rd / Queen Elizabeth II Dr	Nelson	1623243	5431540	40	SH	6	3	10
	WEL010	Whakatu Dr / Songer St	Stoke	1618638	5427252	10	SH	6	10	125
	WEL011	Richmond Deviation / Melia Pl	Richmond	1616187	5424131	10	SH	6	60	420
	WEL062	Totara St	Toi Toi	1622565	5429808	10	Background	6	1335	90
Blenheim	WEL012	Nelson St / McLauchlan St	Blenheim	1678828	5404333	20	SH	6	3	390
Christchurch	CHR002	Main North Rd / Queen Elizabeth II Dr	Redwood	1569019	5185272	30	SH	74	2	40
	CHR003	Yaldhurst Rd / Curletts Rd	Riccarton	1565126	5180169	30	SH	73	5	5
	CHR004	Nash Rd	Hilmorton	1565311	5176435	60	Background	75	440	715
	CHR006	Rutherford St / Ferry Rd	Woolston	1574752	5177873	20	SH	74A	12	5
	CHR011	Main South Rd / Parker St	Hornby	1560924	5178620	15	SH	1	10	5
	CHR012	Memorial Ave / Grahams Rd	Burnside	1565320	5182825	10	Local	1	2195	1
	CHR013	Main North Rd / Johns Rd	Belfast	1569958	5189023	6	SH	74 & 1	3	1695
	CHR014	Brougham St / Waltham Rd	Waltham	1571458	5178310	8	SH	73	12	5

Site metadata summary										
Monitoring zone	Site ID	Site name	Area	NZTM easting	NZTM northing	Distance to sensitive receptor (m)	Site type	State highway	Distance to SH (m)	Distance to local road (m)
	CHR015	Shirley Rd / North Pde	Shirley	1572768	5182715	12	Local	74	2005	10
	CHR016	Buckleys Rd / Norwich St	Linwood	1573683	5179994	7	Local	73	2150	3
	CHR017*	ECan Riccarton Rd * = triplicate site	Riccarton	1567570	5180276	50	Local	73	1900	5
	CHR018*									
	CHR019*									
	CHR020*	ECan Coles Pl * = triplicate site	St Albans	1570393	5182343	40	Background	74	2545	155
	CHR021*									
CHR022*										
Greymouth	CHR001	Tainui St / School Lane	Greymouth	1452575	5298043	13	SH	6	1	175
Dunedin	DUN001	Cumberland St / Hanover St	Dunedin	1406666	4917299	30	SH	1	2	195
	DUN002	Dunedin Southern Motorway / Barnes Dr	Caversham	1404335	4914580	5	SH	1	40	150
	DUN003	Dunedin Southern Motorway / Old Brighton Rd (relocated to DUN011)	Fairfield	1397755	4913692	10	Local	1	150	2
	DUN006	Quarry Rd / Gladstone Rd	Mosgiel	1394721	4915218	30	SH	87	1	80
	DUN007	Durham St	Mornington	1404084	4915951	3	Background	1	1470	50
	DUN008	Stuart St / Strathmore Cres	Roslyn	1405367	4917609	5	Local	1	1310	10
	DUN009	Anderson Bay Rd / Bay View Rd	South Dunedin	1406779	4914351	20	Local	1	1215	2
	DUN011	Dunedin Southern Motorway / Old Brighton Rd (relocated from DUN003)	Fairfield	1397812	4913605	125	SH	1	60	3
Queenstown	DUN004	Stanley St / Sydney St	Queenstown	1258576	5004222	100	SH	6A	3	455
Invercargill	DUN005	Dee St / Don St	Invercargill	1242407	4849734	5	SH	6	1	265
	DUN010	Terrace St	Rosedale	1243428	4852255	10	Background	6	1130	50



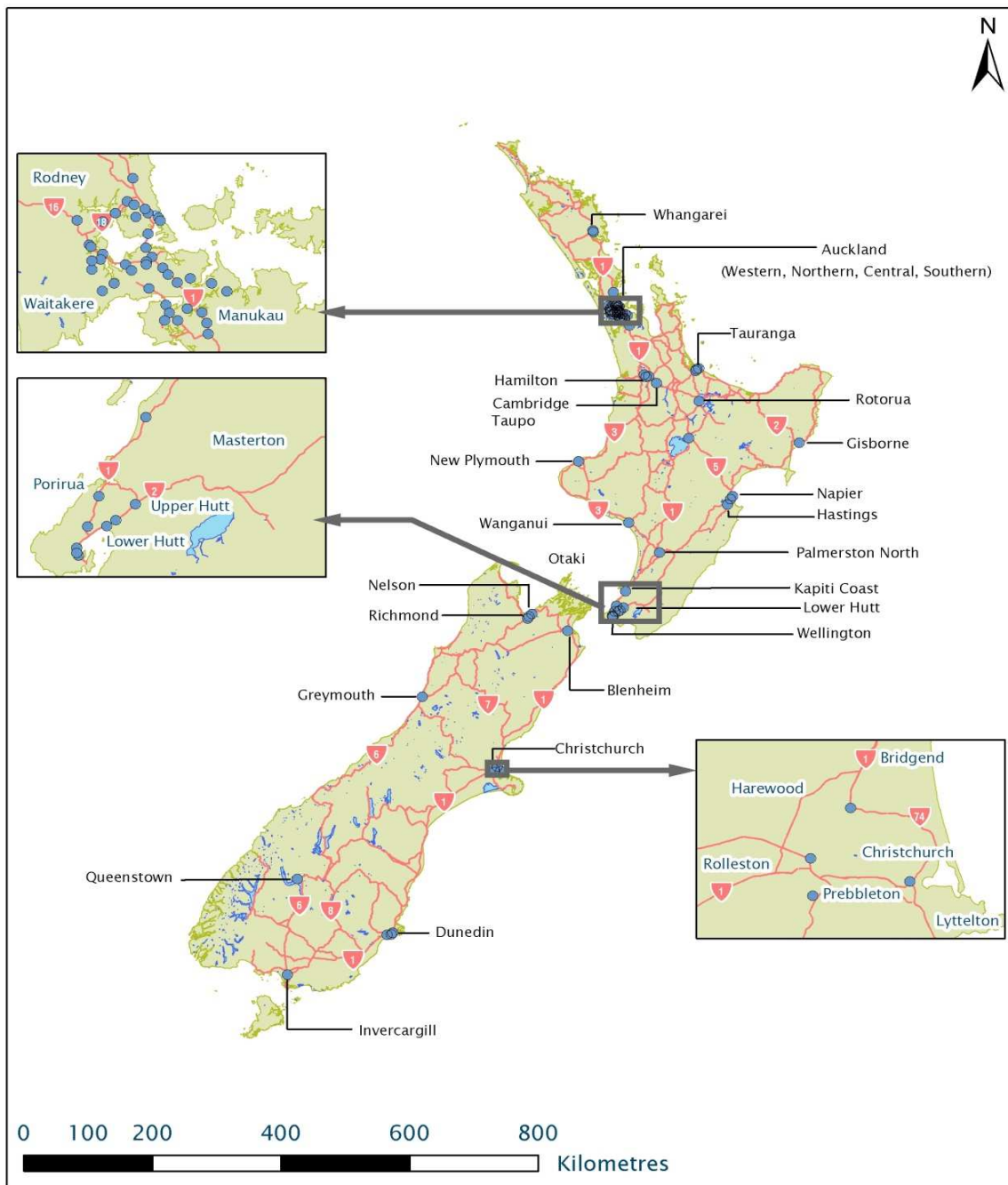
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Figure 1: Map of the NZTA national nitrogen dioxide monitoring network in 2007



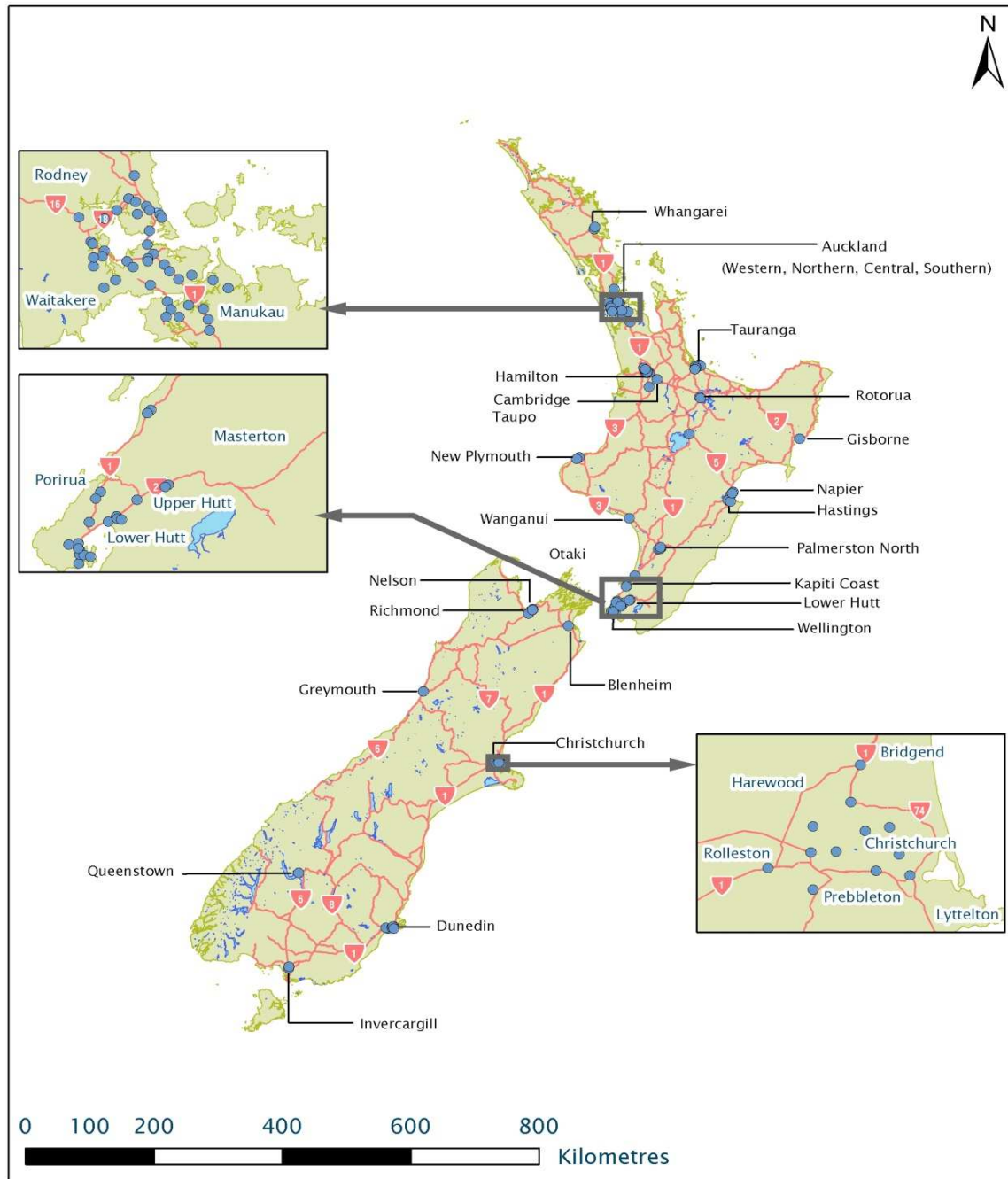
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Figure 2: Map of the NZTA national nitrogen dioxide monitoring network in 2008



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Figure 3: Map of the NZTA national nitrogen dioxide monitoring network in 2009



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Figure 4: Map of the NZTA national nitrogen dioxide monitoring network in 2010

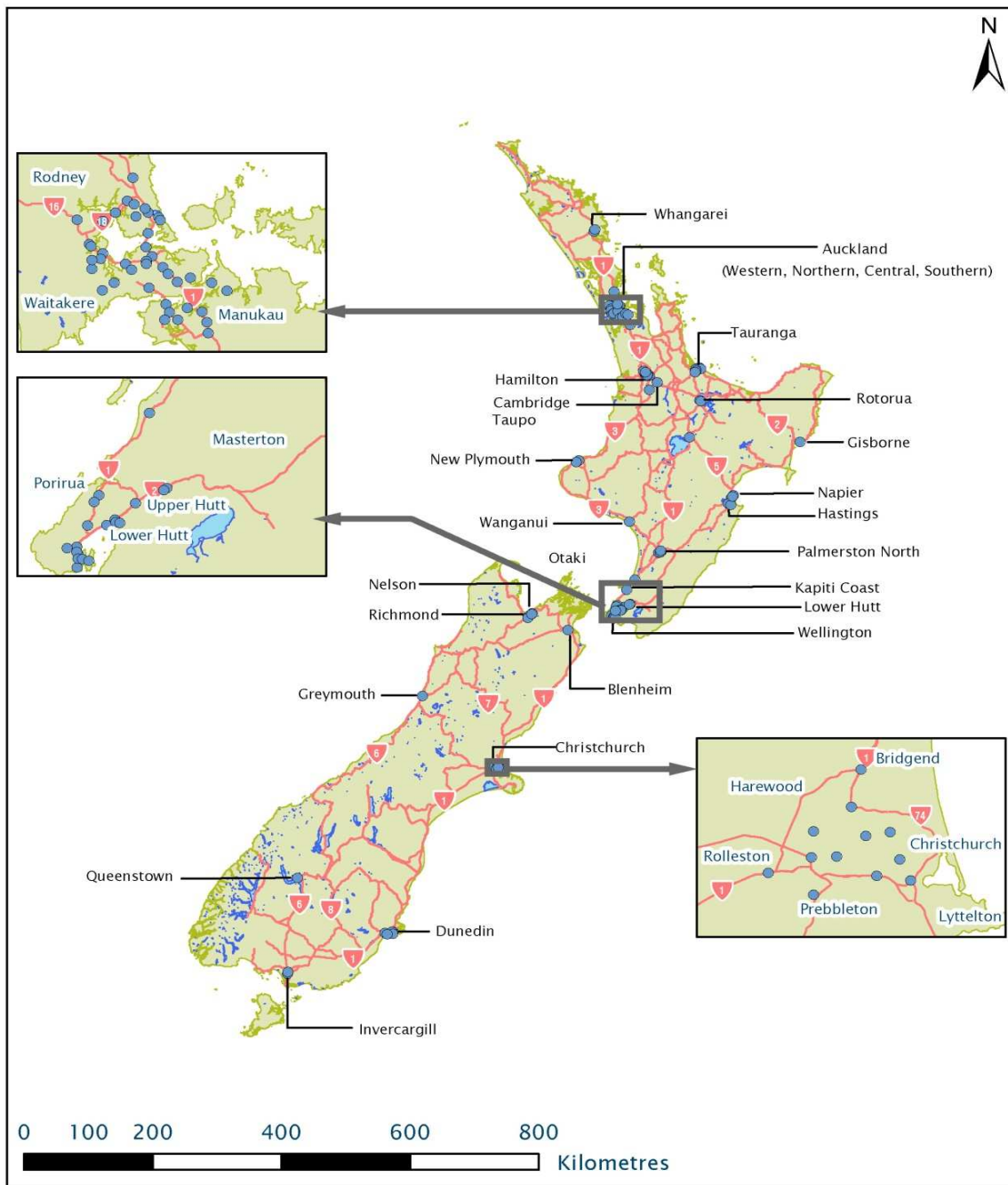


Figure 5: Map of the NZTA national nitrogen dioxide monitoring network in 2011

Monitoring Zone
Hamilton

Site Name

Morrinsville Rd

Site Code

HAM001

Region & Monitoring Zone

Waikato - Hamilton

Area

Hillcrest

Site Type

SH

Source

Cambridge Rd

Site Location218 Cambridge Rd
Hillcrest, Hamilton**Map Reference**

	Easting	Northing		Easting	Northing
NZMG	2714657	6375348	NZTM	1804416	5813725

Nearest Sensitive Receptor & LocationHillcrest Normal School
218 Cambridge RdDistance (m)
40**Nearest SH & Local Road (m) with Direction**

SH 1 3 N LR 240 W

National Network

Y

Intersection

N

Other Site Information

Near Hillcrest Normal School

Height Above Ground (m)

3.8

Nearest Tree (m)

3.8

Monitoring Note(s)

Jan-07 Commissioned



Site Name

Grandview Rd

Site Code

HAM002

Region & Monitoring Zone

Waikato - Hamilton

Area

Newton

Site Type

SH

Source

Avalon Dr

Site Location64 Avalon Dr
Newton, Hamilton**Map Reference**

	Easting	Northing		Easting	Northing
NZMG	2708009	6378372	NZTM	1797762	5816739

Nearest Sensitive Receptor & Location

Residential Housing	Distance (m)
Grandview Rd	40

Nearest SH & Local Road (m) with Direction

SH 1	3	SW	LR	20	N
------	---	----	----	----	---

National Network

Y

Intersection

Y

Other Site Information

-

Height Above Ground (m)

2.6

Nearest Tree (m)

21.8

Monitoring Note(s)

Jan-07 Commissioned



Site Name

Ohaupo Rd

Site Code

HAM003

Region & Monitoring Zone

Waikato - Hamilton

Area

Melville

Site Type

SH

Source

Lorne St

Site Location2 Lorne St
Melville, Hamilton**Map Reference**

	Easting	Northing
NZMG	2710997	6374644

	Easting	Northing
NZTM	1800756	5813015

Nearest Sensitive Receptor & LocationRetail Area
Ohaupo RdDistance (m)
2**Nearest SH & Local Road (m) with Direction**

SH 1 & 3 1 N

LR 5 W

National Network

Y

Intersection

Y

Other Site Information

Near Waikato Public Hospital (350m NE)

Height Above Ground (m)

2.9

Nearest Tree (m)

23.0

Monitoring Note(s)

Jan-07 Commissioned



Site Name

Ann Michele St

Site Code

HAM012

Region & Monitoring Zone

Waikato - Hamilton

Area

Pukete

Site Type

SH

Source

Te Rapa Rd

Site Location1 Ann Michele St
Pukete, Hamilton**Map Reference**

	Easting	Northing
NZMG	2705979	6382998

	Easting	Northing
NZTM	1795724	5821363

Nearest Sensitive Receptor & LocationResidential Housing
Ann Michele StDistance (m)
8**Nearest SH & Local Road (m) with Direction**

SH 1 4 E

LR 910 NE

National Network

Y

Intersection

N

Other Site Information

-

Height Above Ground (m)

2.8

Nearest Tree (m)

20.0

Monitoring Note(s)

Apr-10 Commissioned



Site Name

Killarney Rd

Site Code

HAM013

Region & Monitoring Zone

Waikato - Hamilton

Area

Frankton

Site Type

SH

Source

Greenwood St

Site Location

10 Greenwood St
Frankton, Hamilton

Map Reference

	Easting	Northing		Easting	Northing
NZMG	2709300	6376176	NZTM	1799056	5814544

Nearest Sensitive Receptor & Location

Residential Housing	Distance (m)
Killarney Rd	10

Nearest SH & Local Road (m) with Direction

SH 1	1	W	LR	1	S
------	---	---	----	---	---

National Network

Y

Intersection

Y

Other Site Information

-

Height Above Ground (m)

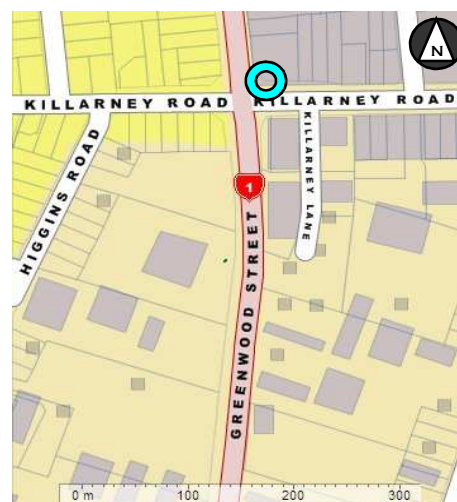
2.8

Nearest Tree (m)

10.0

Monitoring Note(s)

Apr-10 Commissioned



Site Name

Ulster St

Site Code

HAM014

Region & Monitoring Zone

Waikato - Hamilton

Area

Beerescourt

Site Type

Local

Source

Victoria St

Site Location1370 Victoria St
Beerescourt, Hamilton**Map Reference**

	Easting	Northing
NZMG	2709543	6378964

	Easting	Northing
NZTM	1799295	5817333

Nearest Sensitive Receptor & LocationResidential Housing
Victoria StDistance (m)
31**Nearest SH & Local Road (m) with Direction**

SH 1 1670 SW

LR 1 S

National Network

Y

Intersection

Y

Other Site Information

-

Height Above Ground (m)

2.2

Nearest Tree (m)

10.0

Monitoring Note(s)

Apr-10 Commissioned



Site Name

Peachgrove Rd

Site Code

HAM015

Region & Monitoring Zone

Waikato - Hamilton

Area

Claudelands

Site Type

Local

Source

Brooklyn Rd

Site Location23 Brooklyn Rd
Claudelands, Hamilton**Map Reference**

	Easting	Northing
NZMG	2712231	6378544

	Easting	Northing
NZTM	1801984	5816917

Nearest Sensitive Receptor & LocationResidential Housing
Brooklyn RdDistance (m)
20**Nearest SH & Local Road (m) with Direction**

SH 1 3400 S

LR 3 N

National Network

Y

Intersection

Y

Other Site Information

-

Height Above Ground (m)

2.7

Nearest Tree (m)

10.0

Monitoring Note(s)

Apr-10 Commissioned



Site Name

Cobham Dr

Site Code

HAM016

Region & Monitoring Zone

Waikato - Hamilton

Area

Hamilton West

Site Type

Local

Source

Bridge St

Site Location83 Anglesea St
Hamilton West, Hamilton**Map Reference**

	Easting	Northing
NZMG	2711466	6376236

	Easting	Northing
NZTM	1801223	5814608

Nearest Sensitive Receptor & LocationResidential Housing
Anglesea StDistance (m)
7**Nearest SH & Local Road (m) with Direction**

SH 1 1190 S

LR 1 SE

National Network

Y

Intersection

Y

Other Site Information

-

Height Above Ground (m)

2.6

Nearest Tree (m)

10.0

Monitoring Note(s)

Apr-10 Commissioned



Site Name

Seamer Pl

Site Code

HAM017

Region & Monitoring Zone

Waikato - Hamilton

Area

St Andrews

Site Type

Background

Source

-

**Site Location**

19 Seamer Pl
St Andrews, Hamilton

Map Reference

	Easting	Northing
NZMG	2708938	6380769

	Easting	Northing
NZTM	1798688	5819138

Nearest Sensitive Receptor & Location

Residential Housing
Seamer Pl

Distance (m)
10

Nearest SH & Local Road (m) with Direction

SH 1 1665 W

LR 93 E

National Network

Y

Intersection

N

Other Site Information

-

Height Above Ground (m)

2.9

Nearest Tree (m)

8.0

Monitoring Note(s)

Apr-10 Commissioned



Monitoring Zone
Cambridge

Site Name

Queen St

Site Code

HAM004

Region & Monitoring Zone

Waikato - Cambridge

Area

Cambridge

Site Type

SH

Source

Victoria St

Site Location78 Victoria St
Cambridge**Map Reference**

	Easting	Northing
NZMG	2727212	6364959

	Easting	Northing
NZTM	1816991	5803351

Nearest Sensitive Receptor & LocationFood Complex
78 Queen StDistance (m)
15**Nearest SH & Local Road (m) with Direction**

SH 1 1 S

LR 30 W

National Network

Y

Intersection

Y

Other Site Information

-

Height Above Ground (m)

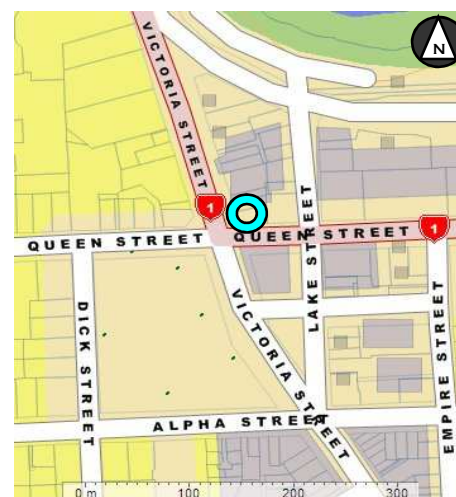
2.9

Nearest Tree (m)

23.4

Monitoring Note(s)

Jan-07 Commissioned



Monitoring Zone
Te Awamutu

Site Name

Albert Park Dr

Site Code

HAM022

Region & Monitoring Zone

Waikato - Te Awamutu

Area

Te Awamutu

Site Type

SH

Source

Ohaupo Rd

Site Location45 Ohaupo Rd
Te Awamutu**Map Reference**

	Easting	Northing
NZMG	2714699	6352469

	Easting	Northing
NZTM	1804490	5790839

Nearest Sensitive Receptor & LocationResidential Housing
Ohaupo RdDistance (m)
5**Nearest SH & Local Road (m) with Direction**

SH 3 1 NE

LR 80 S

National Network

Y

Intersection

Y

Other Site Information

-

Height Above Ground (m)

3.0

Nearest Tree (m)

10.0

Monitoring Note(s)

May-10 Commissioned



Monitoring Zone

Taupo

Site Name

Norman Smith St

Site Code

HAM005

Region & Monitoring Zone

Waikato - Taupo

Area

Taupo

Site Type

SH

Source

Tongariro St

Site Location

Intersection of Norman Smith St & Tongariro St
Taupo

Map Reference

	Easting	Northing		Easting	Northing
NZMG	2777082	6275859	NZTM	1866997	5714268

Nearest Sensitive Receptor & Location

Residential Housing
Sinton Row

Distance (m)
60

Nearest SH & Local Road (m) with Direction

SH 1	2	E	LR	5	W
------	---	---	----	---	---

National Network

Y

Intersection

Y

Other Site Information

-

Height Above Ground (m)

3.5

Nearest Tree (m)

24.0

Monitoring Note(s)

Jan-07 Commissioned



Monitoring Zone
Tauranga

Site Name

Cameron Rd

Site Code

HAM007

Region & Monitoring Zone

Bay of Plenty - Tauranga

Area

Tauranga South

Site Type

SH

Source

Fifteenth Ave

Site Location211 Fifteenth Ave
Tauranga South, Tauranga**Map Reference**

	Easting	Northing
NZMG	2788264	6383905

	Easting	Northing
NZTM	1878044	5822402

Nearest Sensitive Receptor & LocationTauranga Boys College
728 Cameron RdDistance (m)
45**Nearest SH & Local Road (m) with Direction**

SH 2A 2 SW

LR 2 SE

National Network

Y

Intersection

Y

Other Site Information

Opposite Tauranga Boys College. Pre December 2009 SH2.

Height Above Ground (m)

2.9

Nearest Tree (m)

20.0

Monitoring Note(s)

Jan-07 Commissioned



Site Name

Golf Rd

Site Code

HAM008

Region & Monitoring Zone

Bay of Plenty - Tauranga

Area

Mt Maunganui

Site Type

SH

Source

Maunganui Rd

Site LocationOpp 566 Maunganui Rd
Mt Maunganui, Tauranga**Map Reference**

	Easting	Northing		Easting	Northing
NZMG	2793133	6388054	NZTM	1882910	5826562

Nearest Sensitive Receptor & LocationMt Maunganui Intermediate School
565 Maunganui RdDistance (m)
30**Nearest SH & Local Road (m) with Direction**

SH 2 2 SW LR 30 NE

National Network

Y

Intersection

Y

Other Site Information

Hewletts Road Overbridge Project. Near Mt Maunganui Intermediate School. Pre December 2009 SH29.

Height Above Ground (m)

2.9

Nearest Tree (m)

20.0

Monitoring Note(s)

Jan-07 Commissioned



Site Name

Chapel St

Site Code

HAM010

Region & Monitoring Zone

Bay of Plenty - Tauranga

Area

Tauranga

Site Type

SH

Source

Marsh St

Site Location35 Chapel St
Tauranga, Tauranga**Map Reference**

	Easting	Northing
NZMG	2789493	6386894



	Easting	Northing
NZTM	1879269	5825395

Nearest Sensitive Receptor & LocationResidential Housing
Chapel StDistance (m)
60**Nearest SH & Local Road (m) with Direction**

SH 2 2 N

LR 2 W

National Network

Y

Intersection

Y

Other Site InformationTauranga Central Corridor Project. Pre December 2009
SH2A.**Height Above Ground (m)**

2.7

Nearest Tree (m)

50.0

Monitoring Note(s)

Jan-07 Commissioned



Site Name

Maunganui Rd

Site Code

HAM018

Region & Monitoring Zone

Bay of Plenty - Tauranga

Area

Te Maunga

Site Type

SH

Source

SH2

**Site Location**Opp 93 Eversham Rd
Te Maunga, Tauranga**Map Reference**

	Easting	Northing
NZMG	2794763	6385946

	Easting	Northing
NZTM	1884544	5824456

Nearest Sensitive Receptor & LocationResidential Housing
Eversham RdDistance (m)
50**Nearest SH & Local Road (m) with Direction**

SH 2 2 N

LR 810 N

National Network

Y

Intersection

Y

Other Site Information

-

Height Above Ground (m)

2.5

Nearest Tree (m)

50.0

Monitoring Note(s)

Apr-10 Commissioned



Site Name

Otumoetai Rd

Site Code

HAM019

Region & Monitoring Zone

Bay of Plenty - Tauranga

Area

Brookfield

Site Type

Local

Source

Bellevue Rd

Site Location75 Bellevue Rd
Brookfield, Tauranga**Map Reference**

	Easting	Northing		Easting	Northing
NZMG	2786715	6385423	NZTM	1876492	5823919

Nearest Sensitive Receptor & LocationResidential Housing
Otumoetai RdDistance (m)
20**Nearest SH & Local Road (m) with Direction**

SH 2 1040 S LR 2 SW

National Network

Y

Intersection

Y

Other Site Information

-

Height Above Ground (m)

2.7

Nearest Tree (m)

10.0

Monitoring Note(s)

Apr-10 Commissioned



Site Name

Twentythird Ave

Site Code

HAM020

Region & Monitoring Zone

Bay of Plenty - Tauranga

Area

Gate Pa

Site Type

Local

Source

Cameron Rd

Site Location941 Cameron Rd
Gate Pa, Tauranga**Map Reference**

	Easting	Northing
NZMG	2787244	6382893

	Easting	Northing
NZTM	1877026	5821388

Nearest Sensitive Receptor & LocationResidential Housing
Cameron RdDistance (m)
15**Nearest SH & Local Road (m) with Direction**

SH 2 1090 NW

LR 3 SW

National Network

Y

Intersection

Y

Other Site Information

Near Tauranga Girls College

Height Above Ground (m)

2.8

Nearest Tree (m)

10.0

Monitoring Note(s)

Apr-10 Commissioned



Site Name

Seaforth Gr

Site Code

HAM021

Region & Monitoring Zone

Bay of Plenty - Tauranga

Area

Greerton

Site Type

Background

Source

-

**Site Location**7 Seaforth Gr
Greerton, Tauranga**Map Reference**

	Easting	Northing
NZMG	2786027	6380709

	Easting	Northing
NZTM	1875811	5819200

Nearest Sensitive Receptor & LocationResidential Housing
Seaforth GrDistance (m)
5**Nearest SH & Local Road (m) with Direction**

SH 29 360 S

LR 280 NW

National Network

Y

Intersection

N

Other Site Information

-

Height Above Ground (m)

3.0

Nearest Tree (m)

10.0

Monitoring Note(s)

Apr-10 Commissioned



Monitoring Zone
Rotorua

Site Name

Pukuatua St

Site Code

HAM006

Region & Monitoring Zone

Bay of Plenty - Rotorua

Area

Rotorua

Site Type

SH

Source

Old Taupo Rd

Site Location

1612 Pukuatua St

Rotorua

Map Reference

	Easting	Northing
NZMG	2793725	6335570

	Easting	Northing
NZTM	1883582	5774041

Nearest Sensitive Receptor & Location

Rotorua Boys High School
1612 Pukuatua St

Distance (m)
40

Nearest SH & Local Road (m) with Direction

SH 30A & 53 W

LR 40 E

National Network

Y

Intersection

Y

Other Site Information

Near Rotorua Boys High School

Height Above Ground (m)

2.6

Nearest Tree (m)

10.0

Monitoring Note(s)

Jan-07 Commissioned



Site Name

Lighthouse St

Site Code

HAM023

Region & Monitoring Zone

Bay of Plenty - Rotorua

Area

Glenholme

Site Type

Background

Source

-

Site Location3 Lighthouse St
Glenholme, Rotorua**Map Reference**

	Easting	Northing
NZMG	2794856	6334356

	Easting	Northing
NZTM	1884716	5772827

Nearest Sensitive Receptor & LocationResidential Housing
Lighthouse StDistance (m)
10**Nearest SH & Local Road (m) with Direction**

SH 5 880 W

LR 170 W

National Network

Y

Intersection

N

Other Site Information

Near St Mary's Catholic School

Height Above Ground (m)

2.5

Nearest Tree (m)

10.0

Monitoring Note(s)

Apr-10 Commissioned



Monitoring Zone
Gisborne

Site Name

Craig Rd

Site Code

NAP001

Region & Monitoring Zone

Gisborne - Gisborne

Area

Kaiti

Site Type

SH

Source

Wainui Rd

Site Location515 Wainui Rd
Kaiti, Gisborne**Map Reference**

	Easting	Northing
NZMG	2948813	6268592

	Easting	Northing
NZTM	2038946	5707152

Nearest Sensitive Receptor & LocationKaiti School
517 Wainui RdDistance (m)
5**Nearest SH & Local Road (m) with Direction**

SH 35 2 NE

LR 190 NE

National Network

Y

Intersection

N

Other Site Information

Opposite Kaiti School

Height Above Ground (m)

3.0

Nearest Tree (m)

10.0

Monitoring Note(s)

Jan-07 Commissioned



Monitoring Zone
Napier

Site Name

Meeanee Rd

Site Code

NAP002

Region & Monitoring Zone

Hawke's Bay - Napier

Area

Jervoistown

Site Type

SH

Source

Napier Hastings Motorway

**Site Location**

122 Meeanee Rd
Jervoistown, Napier

Map Reference

	Easting	Northing		Easting	Northing
NZMG	2841836	6177906	NZTM	1931872	5616278

Nearest Sensitive Receptor & Location

Residential Housing	Distance (m)
Meeanee Rd	40

Nearest SH & Local Road (m) with Direction

SH 50	3	W	LR	2	S
-------	---	---	----	---	---

National Network

Y

Intersection

Y

Other Site Information

Meeanee Road Intersection Upgrade. Near AQ Station.

Height Above Ground (m)

3.0

Nearest Tree (m)

30.0

Monitoring Note(s)

Jan-07 Commissioned



Site Name

Georges Dr

Site Code

NAP003

Region & Monitoring Zone

Hawke's Bay - Napier

Area

Marewa

Site Type

SH

Source

Hyderabad Rd



Site Location

3 Hyderabad Rd
Marewa, Napier

Map Reference

	Easting	Northing		Easting	Northing
NZMG	2845357	6182616	NZTM	1935394	5620994

Nearest Sensitive Receptor & Location

Residential Housing	Distance (m)
Hyderabad Rd	10

Nearest SH & Local Road (m) with Direction

SH 2	3	N	LR	70	E
------	---	---	----	----	---

National Network

Y

Intersection

Y

Other Site Information

-

Height Above Ground (m)

3.0

Nearest Tree (m)

3.0

Monitoring Note(s)

Jan-07 Commissioned



Site Name

Hastie Pl

Site Code

NAP006

Region & Monitoring Zone

Hawke's Bay - Napier

Area

Onekawa

Site Type

Background

Source

-



Site Location

10 Hastie Pl
Onekawa, Napier

Map Reference

	Easting	Northing		Easting	Northing
NZMG	2844224	6180240	NZTM	1934262	5618615

Nearest Sensitive Receptor & Location

Residential Housing	Distance (m)
Hastie Pl	15

Nearest SH & Local Road (m) with Direction

SH 50	800	W	LR	600	NW
-------	-----	---	----	-----	----

National Network

Y

Intersection

N

Other Site Information

Near Henry Hill School

Height Above Ground (m)

3.0

Nearest Tree (m)

11.0

Monitoring Note(s)

Apr-10 Commissioned



Monitoring Zone
Hastings

Site Name

Omahu Rd

Site Code

NAP004

Region & Monitoring Zone

Hawke's Bay - Hastings

Area

Woolwich

Site Type

SH

Source

Napier Hastings Motorway

**Site Location**

1000 Omahu Rd
Woolwich, Hastings

Map Reference

	Easting	Northing		Easting	Northing
NZMG	2837466	6169025	NZTM	1927501	5607387

Nearest Sensitive Receptor & Location

Residential Housing
Omahu Rd

Distance (m)
180

Nearest SH & Local Road (m) with Direction

SH 50A	20	E	LR	10	NE
--------	----	---	----	----	----

National Network

Y

Intersection

Y

Other Site Information

-

Height Above Ground (m)

3.0

Nearest Tree (m)

40.0

Monitoring Note(s)

Jan-07 Commissioned



Site Name

Amanda Pl

Site Code

NAP005

Region & Monitoring Zone

Hawke's Bay - Hastings

Area

Mayfair

Site Type

Background

Source

-

**Site Location**

11 Amanda Pl
Mayfair, Hastings

Map Reference

	Easting	Northing		Easting	Northing
NZMG	2841229	6167068	NZTM	1931267	5605429

Nearest Sensitive Receptor & Location

Residential Housing	Distance (m)
Amanda Pl	15

Nearest SH & Local Road (m) with Direction

SH 2	230	N	LR	100	W
------	-----	---	----	-----	---

National Network

Y

Intersection

N

Other Site Information

Near Mayfair School

Height Above Ground (m)

2.7

Nearest Tree (m)

10.0

Monitoring Note(s)

Apr-10 Commissioned



Monitoring Zone
New Plymouth

Site Name

Paynters Ave

Site Code

WAN001

Region & Monitoring Zone

Taranaki - New Plymouth

Area

Fitzroy

Site Type

SH

Source

Northgate

Site Location10 Pukaka St
Fitzroy, New Plymouth**Map Reference**

	Easting	Northing
NZMG	2605648	6238606

	Easting	Northing
NZTM	1695561	5676854

Nearest Sensitive Receptor & LocationMission Resthome
10 Pukaka StDistance (m)
50**Nearest SH & Local Road (m) with Direction**

SH 3 1 N

LR 140 E

National Network

Y

Intersection

N

Other Site Information

Near Scared Heart School

Height Above Ground (m)

3.0

Nearest Tree (m)

15.0

Monitoring Note(s)

Jan-07 Commissioned



Site Name

Benbow Pl

Site Code

WAN009

Region & Monitoring Zone

Taranaki - New Plymouth

Area

Westown

Site Type

Background

Source

-



Site Location

4 Tavistock St
Westown , New Plymouth

Map Reference

	Easting	Northing		Easting	Northing
NZMG	2601999	6236211	NZTM	1691914	5674457

Nearest Sensitive Receptor & Location

Residential Housing	Distance (m)
Tavistock St	5

Nearest SH & Local Road (m) with Direction

SH 45	1360	N	LR	240	NW
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National Network

Y

Intersection

N

Other Site Information

-

Height Above Ground (m)

2.5

Nearest Tree (m)

20.0

Monitoring Note(s)

Apr-10 Commissioned



Monitoring Zone
Wanganui

Site Name

Grey St

Site Code

WAN002

Region & Monitoring Zone

Manawatu / Wanganui - Wanganui

Area

Wanganui

Site Type

SH

Source

London St

Site Location

Opp 181 London St
Wanganui, Wanganui



Map Reference

	Easting	Northing
NZMG	2683714	6139847

	Easting	Northing
NZTM	1773681	5578142

Nearest Sensitive Receptor & Location

Residential Housing	Distance (m)
London St	50

Nearest SH & Local Road (m) with Direction

SH 3	1	SE	LR	70	NE
------	---	----	----	----	----

National Network

Y

Intersection

N

Other Site Information

Near St George's Prep School. Relocated to WAN010.

Height Above Ground (m)

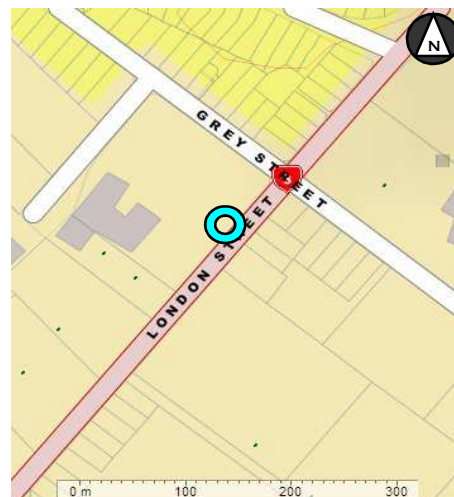
3.0

Nearest Tree (m)

10.0

Monitoring Note(s)

Jan-07	Commissioned
Nov-09	Decommissioned



Site Name

Grey St

Site Code

WAN010

Region & Monitoring Zone

Manawatu / Wanganui - Wanganui

Area

Wanganui

Site Type

SH

Source

London St

Site Location

175 London St
Wanganui, Wanganui



Map Reference

	Easting	Northing
NZMG	2683810	6139936

	Easting	Northing
NZTM	1773776	5578231

Nearest Sensitive Receptor & Location

Residential Housing	Distance (m)
London St	10

Nearest SH & Local Road (m) with Direction

SH 3	1	NW	LR	60	SW
------	---	----	----	----	----

National Network

Y

Intersection

Y

Other Site Information

Near St George's Prep School. Relocated from WAN002.

Height Above Ground (m)

3.0

Nearest Tree (m)

20.0

Monitoring Note(s)

Nov-09 Commissioned



Monitoring Zone
Palmerston North

Site Name

Featherston St

Site Code

WAN004

Region & Monitoring Zone

Manawatu / Wanganui - Palmerston North

Area

Palmerston North Central

Site Type

SH

Source

Rangitikei St

Site Location

240 Featherston St
Palmerston North Central, Palmerston North

Map Reference

	Easting	Northing
NZMG	2731352	6091837

	Easting	Northing
NZTM	1821340	5530133

Nearest Sensitive Receptor & Location

Retail Area
Rangitikei St

Distance (m)
20

Nearest SH & Local Road (m) with Direction

SH 3	1	E
------	---	---

LR	1	N
----	---	---

National Network

Y

Intersection

Y

Other Site Information

Near Palmerston North Boys High School

Height Above Ground (m)

3.0

Nearest Tree (m)

10.0

Monitoring Note(s)

Jan-07 Commissioned



Site Name

Maxwells Line

Site Code

WAN005

Region & Monitoring Zone

Manawatu / Wanganui - Palmerston North

Area

Awapuni

Site Type

SH

Source

Pioneer Hwy

Site LocationOpp 1 Maxwells Line
Awapuni, Palmerston North**Map Reference**

	Easting	Northing
NZMG	2728877	6089599

	Easting	Northing
NZTM	1818864	5527893

Nearest Sensitive Receptor & LocationResidential Housing
Maxwells LineDistance (m)
30**Nearest SH & Local Road (m) with Direction**

SH 56 1 S

LR 35 E

National Network

Y

Intersection

N

Other Site Information

-

Height Above Ground (m)

2.5

Nearest Tree (m)

25.0

Monitoring Note(s)

Apr-10 Commissioned



Site Name

Ruahine St

Site Code

WAN006

Region & Monitoring Zone

Manawatu / Wanganui - Palmerston North

Area

Terrace End

Site Type

SH

Source

Main St

Site Location

757 Main St
Terrace End, Palmerston North

Map Reference

	Easting	Northing
NZMG	2733238	6091975

	Easting	Northing
NZTM	1823226	5530270

Nearest Sensitive Receptor & Location

Residential Housing
Main St

Distance (m)
40

Nearest SH & Local Road (m) with Direction

SH 3	1	S
------	---	---

LR	10	NE
----	----	----

National Network

Y

Intersection

Y

Other Site Information

-

Height Above Ground (m)

2.5

Nearest Tree (m)

20.0

Monitoring Note(s)

Apr-10 Commissioned



Site Name

Ferguson St

Site Code

WAN007

Region & Monitoring Zone

Manawatu / Wanganui - Palmerston North

Area

West End

Site Type

Local

Source

Pitt St

Site Location

104 Pitt St
West End, Palmerston North

Map Reference

	Easting	Northing		Easting	Northing
NZMG	2731567	6090595	NZTM	1821556	5528890

Nearest Sensitive Receptor & Location

Residential Housing	Distance (m)
Pitt St	20

Nearest SH & Local Road (m) with Direction

SH 3	920	N	LR	1	NW
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National Network

Y

Intersection

Y

Other Site Information

Near Palmerston North Intermediate Normal School and Palmerston North SDA School

Height Above Ground (m)

2.5

Nearest Tree (m)

3.0

Monitoring Note(s)

Apr-10 Commissioned



Site Name

Tyndall St

Site Code

WAN008

Region & Monitoring Zone

Manawatu / Wanganui - Palmerston North

Area

Roslyn

Site Type

Background

Source

-

Site Location10 Tyndall St
Roslyn, Palmerston North**Map Reference**

	Easting	Northing
NZMG	2732125	6093089

	Easting	Northing
NZTM	1822113	5531385

Nearest Sensitive Receptor & LocationResidential Housing
Tyndall StDistance (m)
5**Nearest SH & Local Road (m) with Direction**

SH 3 1250 SW

LR 100 N

National Network

Y

Intersection

N

Other Site Information

Near Russell St School

Height Above Ground (m)

2.5

Nearest Tree (m)

5.0

Monitoring Note(s)

Apr-10 Commissioned



Monitoring Zone
Otaki

Site Name

Mill Rd

Site Code

WEL061

Region & Monitoring Zone

Wellington - Otaki

Area

Otaki

Site Type

SH

Source

State Highway 1

Site Location

Opposite 284 Mill Rd
Otaki, Kapiti Coast

Map Reference

	Easting	Northing
NZMG	2692113	6047319

	Easting	Northing
NZTM	1782095	5485605

Nearest Sensitive Receptor & Location

Residential Housing
Mill Rd

Distance (m)
15

Nearest SH & Local Road (m) with Direction

SH 1	3	SE
------	---	----

LR	5	NE
----	---	----

National Network

Y

Intersection

Y

Other Site Information

-

Height Above Ground (m)

4.0

Nearest Tree (m)

15.0

Monitoring Note(s)

Mar-10 Commissioned



Monitoring Zone
Kapiti

Site Name

Ihakara St

Site Code

WEL004

Region & Monitoring Zone

Wellington - Kapiti

Area

Paraparaumu

Site Type

SH

Source

Main Rd South

Site Location

3 Ihakara St
Paraparaumu, Kapiti Coast

Map Reference

	Easting	Northing
NZMG	2678624	6029713

	Easting	Northing
NZTM	1768605	5467998

Nearest Sensitive Receptor & Location

Residential Housing
Spencer Russell Dr

Distance (m)
20

Nearest SH & Local Road (m) with Direction

SH 1	3	SE
------	---	----

LR	610	SW
----	-----	----

National Network

Y

Intersection

N

Other Site Information

Relocated to WEL063

Height Above Ground (m)

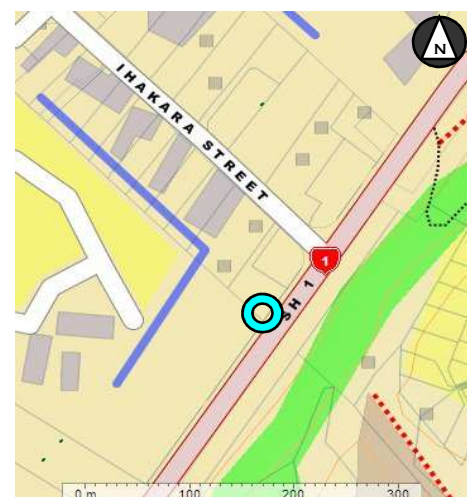
3.3

Nearest Tree (m)

1.0

Monitoring Note(s)

Jan-07	Commissioned
Jan-09	Decommissioned



Site Name

Rimutaka St

Site Code

WEL063

Region & Monitoring Zone

Wellington - Kapiti

Area

Paraparaumu

Site Type

SH

Source

Main Rd South

Site Location

20 Rimutaka St
Paraparaumu, Kapiti Coast

Map Reference

	Easting	Northing
NZMG	2679645	6030750



	Easting	Northing
NZTM	1769627	5469035

Nearest Sensitive Receptor & Location

Residential Housing
Rimutaka St

Distance (m)
20

Nearest SH & Local Road (m) with Direction

SH 1 5 NE

LR 680 SW

National Network

Y

Intersection

N

Other Site Information

Relocated from WEL004 near Ihakara St

Height Above Ground (m)

3.5

Nearest Tree (m)

2.0

Monitoring Note(s)

Jan-09 Commissioned



Monitoring Zone
Upper Hutt

Site Name

Totara Park Rd

Site Code

WEL057

Region & Monitoring Zone

Wellington - Upper Hutt

Area

Clouston Park

Site Type

SH

Source

River Rd

Site Location40 Totara Park Rd
Clouston Park, Upper Hutt**Map Reference**

	Easting	Northing
NZMG	2684770	6008051

	Easting	Northing
NZTM	1774749	5446335

Nearest Sensitive Receptor & LocationResidential Housing
Totara Park RdDistance (m)
20**Nearest SH & Local Road (m) with Direction**

SH 2 2 N

LR 5 W

National Network

Y

Intersection

Y

Other Site Information

-

Height Above Ground (m)

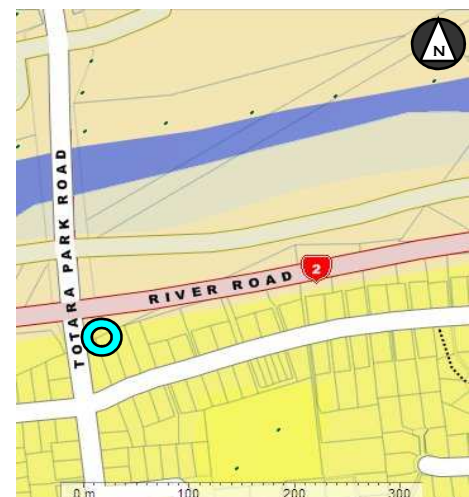
4.0

Nearest Tree (m)

5.0

Monitoring Note(s)

Mar-10 Commissioned



Site Name

GWRC Savage Park

Site Code

WEL058 - WEL060

Region & Monitoring Zone

Wellington - Upper Hutt

Area

Upper Hutt

Site Type

Background

Source

-

**Site Location**15 Savage Cres
Upper Hutt , Upper Hutt**Map Reference**

	Easting	Northing
NZMG	2683824	6007399

	Easting	Northing
NZTM	1773803	5445683

Nearest Sensitive Receptor & LocationResidential Housing
Savage ParkDistance (m)
21**Nearest SH & Local Road (m) with Direction**

SH 2 600 N

LR 69 W

National Network

Y

Intersection

N

Other Site Information

AQ Station. Co-located in triplicate.

Height Above Ground (m)

4.0

Nearest Tree (m)

11.0

Monitoring Note(s)

Mar-10 Commissioned



Monitoring Zone
Lower Hutt

Site Name

Manor Park Rd

Site Code

WEL002

Region & Monitoring Zone

Wellington - Lower Hutt

Area

Manor Park

Site Type

SH

Source

Western Hutt Rd

Site Location

Cnr Manor Park Rd & Western Hutt Rd
 Manor Park, Lower Hutt

Map Reference

	Easting	Northing
NZMG	2675619	6003444

	Easting	Northing
NZTM	1765598	5441729

Nearest Sensitive Receptor & Location

Residential Housing
 Mary Huse Gr

Distance (m)
 180

Nearest SH & Local Road (m) with Direction

SH 2	1	NW
------	---	----

LR	485	SW
----	-----	----

National Network

Y

Intersection

Y

Other Site Information

Manor Park Hospital

Height Above Ground (m)

3.2

Nearest Tree (m)

8.8

Monitoring Note(s)

Jan-07 Commissioned



Site Name

Riddlers Cres

Site Code

WEL003

Region & Monitoring Zone

Wellington - Lower Hutt

Area

Petone

Site Type

SH

Source

Western Hutt Rd

Site Location37 Riddlers Cres
Petone, Lower Hutt**Map Reference**

	Easting	Northing
NZMG	2667227	5996900

	Easting	Northing
NZTM	1757206	5435187

Nearest Sensitive Receptor & LocationResidential Housing
Riddlers CresDistance (m)
8**Nearest SH & Local Road (m) with Direction**

SH 2 40 N

LR 150 SW

National Network

Y

Intersection

N

Other Site Information

-

Height Above Ground (m)

3.3

Nearest Tree (m)

8.0

Monitoring Note(s)

May-07 Commissioned



Site Name

Block Rd (GWRC Melling Station)

Site Code

WEL028 - WEL030

Region & Monitoring Zone

Wellington - Lower Hutt

Area

Boulcott

Site Type

SH

Source

Western Hutt Rd

Site LocationBlock Rd Train Station
Boulcott, Lower Hutt**Map Reference**

	Easting	Northing
NZMG	2669902	5998674

	Easting	Northing
NZTM	1759881	5436960

Nearest Sensitive Receptor & LocationTrain Station
Block RdDistance (m)
5**Nearest SH & Local Road (m) with Direction**

SH 2 10 NW

LR 50 SW

National Network

Y

Intersection

N

Other Site InformationAQ Station removed Jan-2010. Co-located in triplicate.
WEL052 nearby.**Height Above Ground (m)**

4.4

Nearest Tree (m)

2.5

Monitoring Note(s)

Jan-09	Commissioned
Jan-10	Decommissioned



Site Name

Pharazyn St

Site Code

WEL052

Region & Monitoring Zone

Wellington - Lower Hutt

Area

Boulcott

Site Type

SH



Source

Western Hutt Rd

Site Location

Opposite 101 Pharazyn St
Boulcott, Lower Hutt

Map Reference

	Easting	Northing		Easting	Northing
NZMG	2669689	5998545	NZTM	1759667	5436831

Nearest Sensitive Receptor & Location

Residential Housing	Distance (m)
Pharazyn St	12

Nearest SH & Local Road (m) with Direction

SH 2	15	NW	LR	185	NE
------	----	----	----	-----	----

National Network

Y

Intersection

N

Other Site Information

Near Ex GWRC Melling Station AQ Station

Height Above Ground (m)

4.0

Nearest Tree (m)

16.0

Monitoring Note(s)

Mar-10 Commissioned



Site Name

Bloomfield Tce

Site Code

WEL053

Region & Monitoring Zone

Wellington - Lower Hutt

Area

Lower Hutt

Site Type

Local

Source

Knights Rd

Site Location

75 Knights Rd

Lower Hutt , Lower Hutt

Map Reference

	Easting	Northing
NZMG	2669955	5997772

	Easting	Northing
NZTM	1759934	5436058

Nearest Sensitive Receptor & LocationResidential Housing
Bloomfield TceDistance (m)
20**Nearest SH & Local Road (m) with Direction**

SH 2 828 NW

LR 1 S

National Network

Y

Intersection

Y

Other Site Information

-

Height Above Ground (m)

4.0

Nearest Tree (m)

12.0

Monitoring Note(s)

Mar-10 Commissioned



Site Name

GWRC Birch Lane

Site Code

WEL054 - WEL056

Region & Monitoring Zone

Wellington - Lower Hutt

Area

Waterloo

Site Type

Background

Source

-



Site Location

46 Oxford Tce
Waterloo, Lower Hutt

Map Reference

	Easting	Northing
NZMG	2671055	5997578

	Easting	Northing
NZTM	1761034	5435864

Nearest Sensitive Receptor & Location

Residential Housing
Oxford Tce

Distance (m)
8

Nearest SH & Local Road (m) with Direction

SH 2 1595 NW

LR 100 N

National Network

Y

Intersection

N

Other Site Information

AQ Station. Co-located in triplicate.

Height Above Ground (m)

3.5

Nearest Tree (m)

10.0

Monitoring Note(s)

Mar-10 Commissioned



Monitoring Zone
Porirua

Site Name

Titahi Bay Rd

Site Code

WEL005

Region & Monitoring Zone

Wellington - Porirua

Area

Porirua

Site Type

SH

Source

Johnsonville Porirua Motorway

Site Location

Opp 1 Mungavin Ave

Porirua, Porirua

Map Reference

	Easting	Northing
NZMG	2664950	6005956

	Easting	Northing
NZTM	1754930	5444242

Nearest Sensitive Receptor & LocationBelmont Motor Lodge
1 Mungavin AveDistance (m)
30**Nearest SH & Local Road (m) with Direction**

SH 1 50 W

LR 5 N

National Network

Y

Intersection

N

Other Site Information

Porirua on ramp 50m. SH1 65m.

Height Above Ground (m)

3.2

Nearest Tree (m)

1.0

Monitoring Note(s)

Mar-07 Commissioned



Monitoring Zone
Wellington

Site Name

Bolton St

Site Code

WEL007

Region & Monitoring Zone

Wellington - Wellington

Area

Lambton Quay

Site Type

SH

Source

Wellington Urban Motorway

Site LocationOpp 82 Bolton St
Lambton Quay, Wellington**Map Reference**

	Easting	Northing
NZMG	2658523	5990324

	Easting	Northing
NZTM	1748501	5428612

Nearest Sensitive Receptor & LocationResidential Housing
Bolton StDistance (m)
15**Nearest SH & Local Road (m) with Direction**

SH 1 30 E

LR 175 E

National Network

Y

Intersection

N

Other Site Information

-

Height Above Ground (m)

2.5

Nearest Tree (m)

5.0

Monitoring Note(s)

Mar-07 Commissioned



Site Name

Sussex St

Site Code

WEL008

Region & Monitoring Zone

Wellington - Wellington

Area

Mt Cook

Site Type

SH

Source

Rugby St

Site Location

Crn Sussex St & Rugby St
Mt Cook, Wellington

**Map Reference**

	Easting	Northing
NZMG	2658939	5988040

	Easting	Northing
NZTM	1748917	5426328

Nearest Sensitive Receptor & Location

Residential Housing
Sussex St

Distance (m)
15

Nearest SH & Local Road (m) with Direction

SH 1	2	E
------	---	---

LR	95	SE
----	----	----

National Network

Y

Intersection

Y

Other Site Information

Wellington Inner City Bypass Project. Near Basin Reserve.

Height Above Ground (m)

3.1

Nearest Tree (m)

4.2

Monitoring Note(s)

Jan-07 Commissioned



Site Name

Helston Rd

Site Code

WEL027

Region & Monitoring Zone

Wellington - Wellington

Area

Johnsonville

Site Type

SH

Source

Johnsonville Porirua Motorway

Site Location

12 Helston Rd

Johnsonville, Wellington

Map Reference

	Easting	Northing
NZMG	2661775	5996790

	Easting	Northing
NZTM	1751754	5435077

Nearest Sensitive Receptor & LocationResidential Housing
Helston RdDistance (m)
5**Nearest SH & Local Road (m) with Direction**

SH 1 100 W

LR 5 S

National Network

Y

Intersection

N

Other Site Information

Relocated to WEL064 closer to the SH

Height Above Ground (m)

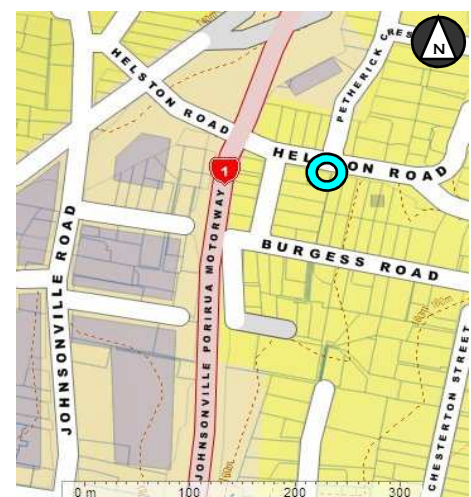
4.0

Nearest Tree (m)

5.0

Monitoring Note(s)

Jan-09	Commissioned
Mar-10	Decommissioned



Site Name

Victoria St (GWRC Corner V)

Site Code

WEL031 - WEL033

Region & Monitoring Zone

Wellington - Wellington

Area

Te Aro

Site Type

SH

Source

Vivian St

Site LocationCrn Vivian St & Victoria St
Te Aro, Wellington**Map Reference**

	Easting	Northing
NZMG	2658477	5988791

	Easting	Northing
NZTM	1748455	5427079

Nearest Sensitive Receptor & LocationRetail Area
Vivian StDistance (m)
15**Nearest SH & Local Road (m) with Direction**

SH 1 7 SW

LR 5 W

National Network

Y

Intersection

Y

Other Site Information

AQ Station. Co-located in triplicate.

Height Above Ground (m)

5.3

Nearest Tree (m)

9.0

Monitoring Note(s)

Jan-09 Commissioned



Site Name

GWRC Duncan Park

Site Code

WEL034 - WEL036

Region & Monitoring Zone

Wellington - Wellington

Area

Linden

Site Type

Background

Source

-

Site Location8 Linden Ave
Linden, Tawa**Map Reference**

	Easting	Northing
NZMG	2663604	6003852

	Easting	Northing
NZTM	1753584	5442139

Nearest Sensitive Receptor & LocationResidential Housing
Rossiter StDistance (m)
18**Nearest SH & Local Road (m) with Direction**

SH 1	585	E	LR	60	W
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National Network

Y

Intersection

N

Other Site Information

AQ Station. Co-located in triplicate. Replacement for WEL028-030.

Height Above Ground (m)

3.6

Nearest Tree (m)

3.0

Monitoring Note(s)

Jan-10 Commissioned



Site Name

Campbell St

Site Code

WEL047

Region & Monitoring Zone

Wellington - Wellington

Area

Karori

Site Type

Local

Source

Karori Rd

Site Location

4 Campbell St
Karori, Wellington



Map Reference

	Easting	Northing
NZMG	2655638	5989915

	Easting	Northing
NZTM	1745617	5428203

Nearest Sensitive Receptor & Location

Residential Housing
Campbell St

Distance (m)
10

Nearest SH & Local Road (m) with Direction

SH 1 2895 W

LR 1 N

National Network

Y

Intersection

Y

Other Site Information

-

Height Above Ground (m)

3.5

Nearest Tree (m)

15.0

Monitoring Note(s)

Mar-10 Commissioned



Site Name

Thames St

Site Code

WEL048

Region & Monitoring Zone

Wellington - Wellington

Area

Island Bay

Site Type

Background

Source

-

Site Location

3 Thames St
Island Bay, Wellington

Map Reference

	Easting	Northing
NZMG	2658566	5984219



	Easting	Northing
NZTM	1748544	5422507

Nearest Sensitive Receptor & Location

Residential Housing
Thames St

Distance (m)
1

Nearest SH & Local Road (m) with Direction

SH 1 2870 N

LR 150 W

National Network

Y

Intersection

N

Other Site Information

Near Island Bay School

Height Above Ground (m)

4.0

Nearest Tree (m)

10.0

Monitoring Note(s)

Mar-10 Commissioned



Site Name

Mein St

Site Code

WEL049

Region & Monitoring Zone

Wellington - Wellington

Area

Newtown

Site Type

Local

Source

Riddiford St

Site Location88 Riddiford St
Newtown, Wellington**Map Reference**

	Easting	Northing
NZMG	2658930	5986906



	Easting	Northing
NZTM	1748907	5425194

Nearest Sensitive Receptor & LocationNewtown School
Riddiford StDistance (m)
15**Nearest SH & Local Road (m) with Direction**

SH 1 1090 N

LR 1 E

National Network

Y

Intersection

Y

Other Site Information

Opp Newtown School. Near Wellington Hospital.

Height Above Ground (m)

4.0

Nearest Tree (m)

15.0

Monitoring Note(s)

Mar-10 Commissioned



Site Name

Hamilton Rd

Site Code

WEL050

Region & Monitoring Zone

Wellington - Wellington

Area

Kilbirnie

Site Type

SH

Source

Wellington Rd

**Site Location**

29 Wellington Rd
Kilbirnie, Wellington

Map Reference

	Easting	Northing
NZMG	2660124	5986752

	Easting	Northing
NZTM	1750102	5425039

Nearest Sensitive Receptor & Location

Residential Housing
Wellington Rd

Distance (m)
2

Nearest SH & Local Road (m) with Direction

SH 1 4 N

LR 195 W

National Network

Y

Intersection

Y

Other Site Information

-

Height Above Ground (m)

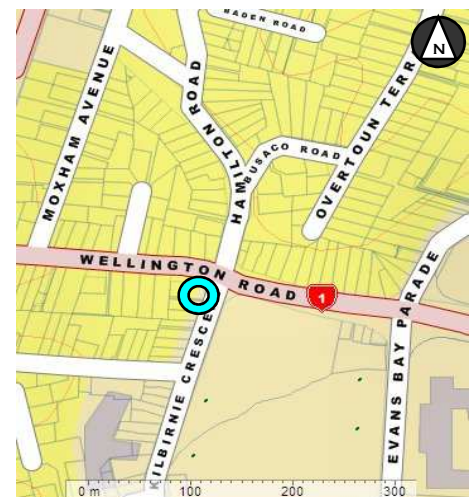
4.0

Nearest Tree (m)

15.0

Monitoring Note(s)

Mar-10 Commissioned



Site Name

Hobart St

Site Code

WEL051

Region & Monitoring Zone

Wellington - Wellington

Area

Miramar

Site Type

Local

Source

Miramar Ave

Site Location

86 Miramar Ave
Miramar, Wellington

Map Reference

	Easting	Northing
NZMG	2662066	5986189

	Easting	Northing
NZTM	1752043	5424476

Nearest Sensitive Receptor & Location

Catholic Church
86 Miramar Ave

Distance (m)
3

Nearest SH & Local Road (m) with Direction

SH 1 575 W

LR 4 NE

National Network

Y

Intersection

Y

Other Site Information

-

Height Above Ground (m)

4.0

Nearest Tree (m)

15.0

Monitoring Note(s)

Mar-10 Commissioned



Site Name

Helston Rd

Site Code

WEL064

Region & Monitoring Zone

Wellington - Wellington

Area

Johnsonville

Site Type

SH

Source

Johnsonville Porirua Motorway

Site Location8 Helston Rd
Johnsonville, Wellington**Map Reference**

	Easting	Northing
NZMG	2661646	5996808

	Easting	Northing
NZTM	1751625	5435095

Nearest Sensitive Receptor & LocationResidential Housing
Helston RdDistance (m)
7**Nearest SH & Local Road (m) with Direction**

SH 1 7 E

LR 5 N

National Network

Y

Intersection

N

Other Site Information

Relocated from WEL027

Height Above Ground (m)

4.0

Nearest Tree (m)

10.0

Monitoring Note(s)

Mar-10 Commissioned

