

Appendix 1 Traffic Data for Belfast Area, 2000 to 2004.

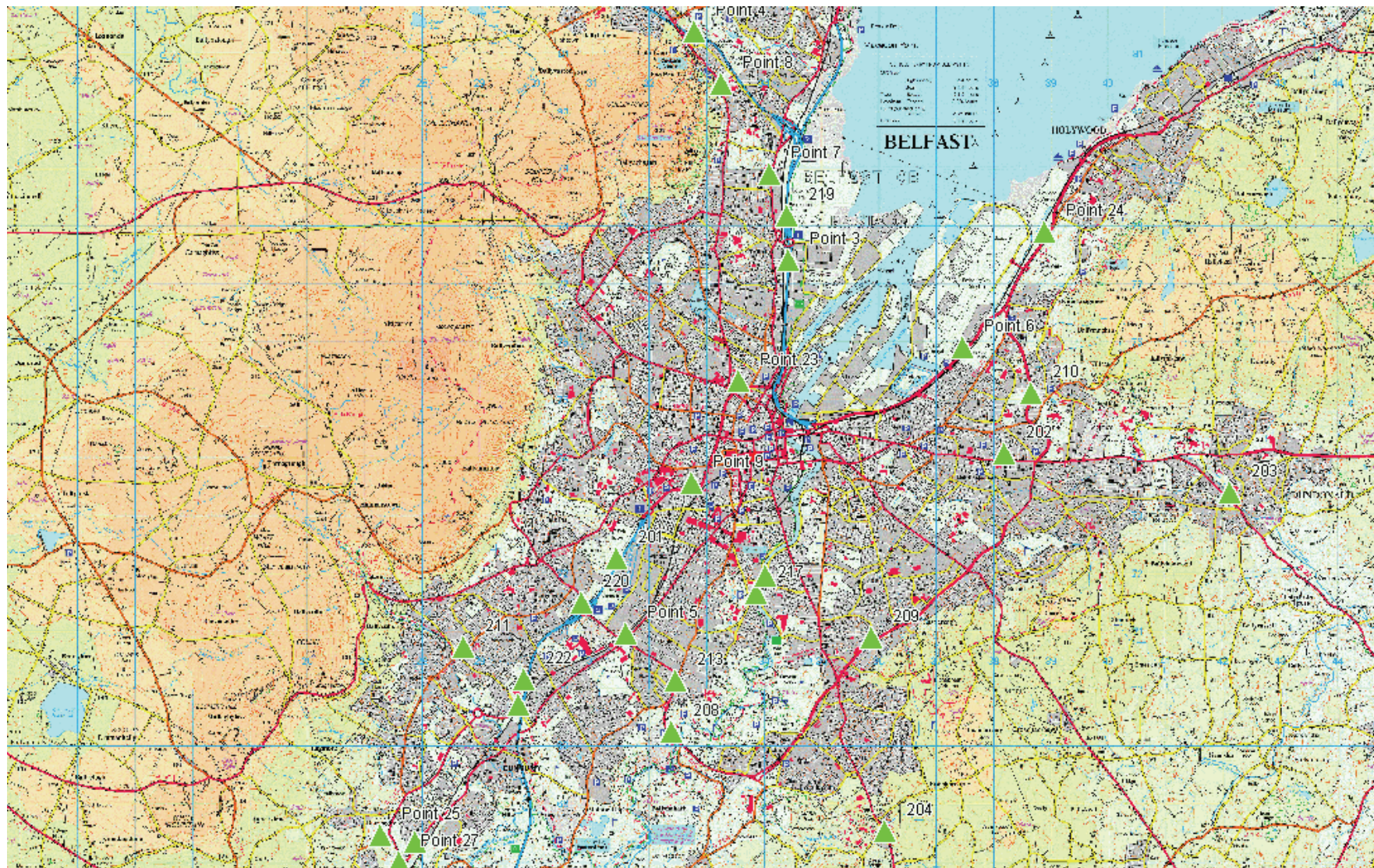
Average Vehicle Counts per Day for the Belfast Area

CP No.		Location	Location	Easting	Northing	2001	2002	Yearly % increase	2003	Yearly % increase	2004	Yearly % increase	Percentage Increase from 2002 to 2004
201	M1	East	Broadway - Stockman's Lane (J'ct 2)	331678	372509	49,350	54,670	10	60,370	9	60,370	0	9
202	M2	East	Fortwilliam Interchange - Outbound	334392	377404	42,600	44,450	4	43,350	-3	48,460	11	8
203	M2	East	Fortwilliam Interchange - Inbound	334437	378014	45,310	43,870	-3	47,300	7	48,750	3	10
204	M2	East	Greencastle (J'ct 2) - Sandyknowes	332728	381319	56,450	55,350	-2	61,630	10	63,760	3	13
205	M2	East	Sandyknowes (J'ct 4) - Templepatrick	326856	385319	37,840	No Data		No Data		42,410		11 *
208	A1	East	Lisburn Road, Belfast, at King's Hall	331477	370792	13,530	12,290	-10	12,420	1	12,420	0	1
209	A2	East	Sydneham By-Pass, at airport	337289	375624	42,730	49,540	14	49,890	1	51,230	3	3
210	A2	East	Shore Road, Belfast at Shore Crescent	334144	378825	13,970	14,980	7	13,790	-9	14,010	2	-7
211	A6	East	Antrim Road, Belfast, at zoo	333233	380501	No Data	15,150		14,540	-4	11,570	-26	-31
213	A12	East	Westlink, Belfast, south of Roden Street	332421	373465	61,040	No Data		62,100		61,430	-1	1 *
216	A20	East	Upper Newtownards Road, Belfast, at Quarry Inn	333513	375162	25,010	25,390	1	24,890	-2	24,270	-3	-5
217	A22	East	Comber Road, Belfast, S.E. of New Line	342520	372789	10,280	10,320	0	10,440	1	10,770	3	4
218	A23	East	Ballygowan Road, Belfast, at Roselawn	338808	370247	10,620	11,680	9	12,080	3	12,180	1	4
219	A24	East	Belfast - Carryduff, at Baronscourt	336752	365930	10,620	30,890	66	29,140	-6	30,260	4	-2
220	A55	East	Shaws Bridge, Belfast	332258	369408	25,560	30,210	15	32,470	7	32,110	-1	6
221	A55	East	Upper knockbreda Road, Belfast	335838	370822	40,130	37,660	-7	37,240	-1	39,390	5	4
222	A55	East	Parkway, Belfast	338583	374764	20,650	21,610	4	21,430	-1	20,570	-4	-5
223	B102	East	Stewartstown Road, Belfast, at Kells Avenue	328783	370688	17,640	16,620	-6	18,410	10	18,150	-1	8
224	B103	East	Upper Malone Road, Belfast, at Lady Dixon Park	330617	367203	7,310	7,960	8	8,140	2	8,540	5	7
225	C/UC	East	Kings Bridge, Belfast	333960	371882	15,610	15,320	-2	14,750	-4	14,960	1	-2
226	C/UC	East	Governors Bridge, Belfast	333908	371628	15,160	16,120	6	15,940	-1	15,880	0	-2
227	M1	East	Stockman's Lane J'ct (above roundabout)	330710	371218	49,270	50,520	2	49,130	-3	No Data		0 **
230	M1	East	Blacks Road on - slip	329697	369723	13,600	13,910	2	12,740	-9	13,070	3	-6
231	M1	East	Blacks Road off - slip	329791	369673	12,880	13,170	2	13,070	-1	12,700	-3	-4
290	A12	East	Westlink, Clifton Street, towards M1	333512	375123	28,890	No Data		30,330		31,600	4	9 *
291	A12	East	Westlink, Clifton Street, towards M2	333513	375162	No Data	35,840		36,640	2	37,450	2	4
501	A2	South	Hollywood By-Pass	338994	377865	No Data	No Data		42,530		46,150	8	8 ***
520	M1	East	Blacks Road - Saintfield Road (J'ct 6)	328385	364375	No Data	40,540		43,740	7	45,990	5	12
523	A512	East	McKinstry Road, Dunmurry, south of Cutts	327469	367712	No Data	No Data		11,120		11,390	2	2 ***
524	A1	East	Belfast - Lisburn, at Derriaghy	328013	367446	No Data	10,310		10,490	2	10,700	2	4
525	A1	East	Belfast - Lisburn, at Lambeg	327589	366760	15,030	13,290	-13	14,140	6	14,910	5	11
529	A513	East	Wilmar Road, Dunmurry	327247	367393	5,590	5,420	-3	6,260	13	7,320	14	26
						Mean Yearly % Change			1.82		1.46		2

Data supplied by DRD Road Service. Shaded cells considered outliers and not included in mean calculations

* Percentage increase 2001 to 2004 ** Percentage increase 2001 to 2003 ***Percentage increase 2003 to 2004

Appendix 2 Traffic Count Locations.



Appendix 3 DMRB Output Sheets.

DMRB: Assessment of Local Air Quality

OUTPUT SHEET

Current receptor			
Receptor Name	Divis Street	Receptor number	1
Assessment year	2003		

Results							
Pollutant	Annual mean				For comparison with Air Quality Standards		
	Background concentration	Road traffic component	Total	Units	Metric	Value	Units
Benzene	1.12	0.37	1.49	µg/m ³	Annual mean	1.49	µg/m ³
1,3-butadiene	0.00	0.56	0.56	µg/m ³	Annual mean	0.56	µg/m ³
NO _x	0.0	61.2	61.2	µg/m ³	Not applicable		
NO ₂	0.0	15.2	15.2	µg/m ³	Annual mean*	15.2	µg/m ³
PM ₁₀	0.0	5.95	5.95	µg/m ³	Annual mean	6.0	µg/m ³
					Days >50µg/m ³	0	Days

Contribution of each link to annual mean					
Link number	CO (mg/m ³)	Benzene (µg/m ³)	1,3-butadiene (µg/m ³)	NO _x (µg/m ³)	PM ₁₀ (µg/m ³)
1	0.15	0.37	0.56	61.18	5.95
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* See Footnote 4 in DMRB Volume 11 Chapter 3

All receptors			Pollutant concentrations at receptor						
Receptor number	Name	Year	CO *	Benzene	1,3-butadiene	NO _x	NO ₂ *	PM ₁₀	
			Annual mean mg/m ³	Annual mean µg/m ³	Annual mean µg/m ³	Annual mean µg/m ³	Annual mean µg/m ³	Annual mean µg/m ³	Days >50µg/m ³
1	Divis Street	2003	0.15	1.49	0.56	61.18	15.20	5.95	0.00

* See Footnote 4 in DMRB Volume 11 Chapter 3

DMRB: Assessment of Local Air Quality

OUTPUT SHEET

Current receptor	
Receptor Name	Lisburn Road
Receptor number	1
Assessment year	2004

Results							
Pollutant	Annual mean				For comparison with Air Quality Standards		
	Background concentration	Road traffic component	Total	Units	Metric	Value	Units
CO	0.00	0.23	0.23	mg/m ³	Annual mean*	0.23	mg/m ³
Benzene	0.00	0.22	0.22	µg/m ³	Annual mean	0.22	µg/m ³
1,3-butadiene	0.00	0.26	0.26	µg/m ³	Annual mean	0.26	µg/m ³
NO _x	24.8	42.0	66.8	µg/m ³	Not applicable		
NO ₂	18.5	10.2	28.7	µg/m ³	Annual mean*	28.7	µg/m ³
PM ₁₀	21.5	5.68	27.18	µg/m ³	Annual mean	27.2	µg/m ³
					Days >50µg/m ³	18	Days

Contribution of each link to annual mean					
Link number	CO (mg/m ³)	Benzene (µg/m ³)	1,3-butadiene (µg/m ³)	NO _x (µg/m ³)	PM ₁₀ (µg/m ³)
1	0.23	0.22	0.26	41.95	5.68
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15					

* See Footnote 4 in DMRB Volume 11 Chapter 3

All receptors			Pollutant concentrations at receptor						
Receptor number	Name	Year	CO *	Benzene	1,3-butadiene	NO _x	NO ₂ *	PM ₁₀	
			Annual mean mg/m ³	Annual mean µg/m ³	Annual mean µg/m ³	Annual mean µg/m ³	Annual mean µg/m ³	Annual mean µg/m ³	Days >50µg/m ³
1	Lisburn Road	2004	0.23	0.22	0.26	66.75	28.68	27.18	18.20

DMRB: Assessment of Local Air Quality

OUTPUT SHEET

Current receptor

Receptor Name	Junction 1	Receptor number	1
Assessment year	2004		

Pollutant	Annual mean				For comparison with Air Quality Standards		
	Background concentration	Road traffic component	Total	Units	Metric	Value	Units
CO	0.00	0.34	0.34	mg/m ³	Annual mean*	0.34	mg/m ³
Benzene	0.00	0.88	0.88	µg/m ³	Annual mean	0.88	µg/m ³
1,3-butadiene	0.00	1.25	1.25	µg/m ³	Annual mean	1.25	µg/m ³
NO _x	31.5	91.7	123.2	µg/m ³	Not applicable		
NO ₂	21.6	18.4	40.0	µg/m ³	Annual mean*	40.0	µg/m ³
PM ₁₀	23.8	11.88	35.68	µg/m ³	Annual mean	35.7	µg/m ³
					Days >50µg/m ³	53	Days

Link number	CO (mg/m ³)	Benzene (µg/m ³)	1,3-butadiene (µg/m ³)	NO _x (µg/m ³)	PM ₁₀ (µg/m ³)
1	0.34	0.88	1.25	91.68	11.88
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* See Footnote 4 in DMRB Volume 11 Chapter 3

All receptors

Receptor number	Name	Year	Pollutant concentrations at receptor						
			CO *	Benzene	1,3-butadiene	NO _x	NO ₂ *	PM ₁₀	
			Annual mean mg/m ³	Annual mean µg/m ³	Annual mean µg/m ³	Annual mean µg/m ³	Annual mean µg/m ³	Annual mean µg/m ³	Days >50µg/m ³
1	Junction 1	2004	0.34	0.88	1.25	123.18	40.00	35.68	53.11

DMRB: Assessment of Local Air Quality

OUTPUT SHEET

Current receptor				
Receptor Name	Junction 2		Receptor number	1
Assessment year	2004			

Results							
Pollutant	Annual mean				For comparison with Air Quality Standards		
	Background concentration	Road traffic component	Total	Units	Metric	Value	Units
CO	0.00	0.35	0.35	mg/m ³	Annual mean*	0.35	mg/m ³
Benzene	0.00	0.77	0.77	µg/m ³	Annual mean	0.77	µg/m ³
1,3-butadiene	0.00	0.91	0.91	µg/m ³	Annual mean	0.91	µg/m ³
NO _x	24.8	62.4	87.2	µg/m ³	Not applicable		
NO ₂	18.5	14.0	32.5	µg/m ³	Annual mean*	32.5	µg/m ³
PM ₁₀	21.5	8.45	29.95	µg/m ³	Annual mean	29.9	µg/m ³
					Days >50µg/m ³	27	Days

Contribution of each link to annual mean					
Link number	CO (mg/m ³)	Benzene (µg/m ³)	1,3-butadiene (µg/m ³)	NO _x (µg/m ³)	PM ₁₀ (µg/m ³)
1	0.35	0.77	0.91	62.42	8.45
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* See Footnote 4 in DMRB Volume 11 Chapter 3

All receptors			Pollutant concentrations at receptor						
Receptor number	Name	Year	CO *	Benzene	1,3-butadiene	NO _x	NO ₂ *	PM ₁₀	
			Annual mean mg/m ³	Annual mean µg/m ³	Annual mean µg/m ³	Annual mean µg/m ³	Annual mean µg/m ³	Annual mean µg/m ³	Days >50µg/m ³
1	Junction 2	2004	0.35	0.77	0.91	87.22	32.50	29.95	27.33

DMRB: Assessment of Local Air Quality

OUTPUT SHEET

Current receptor

Receptor Name	Junction 3	Receptor number	1
Assessment year	2004		

Pollutant	Annual mean				For comparison with Air Quality Standards		
	Background concentration	Road traffic component	Total	Units	Metric	Value	Units
CO	0.00	0.23	0.23	mg/m ³	Annual mean*	0.23	mg/m ³
Benzene	0.00	0.30	0.30	µg/m ³	Annual mean	0.30	µg/m ³
1,3-butadiene	0.00	0.36	0.36	µg/m ³	Annual mean	0.36	µg/m ³
NO _x	48.0	42.3	90.3	µg/m ³	Not applicable		
NO ₂	28.9	9.4	38.3	µg/m ³	Annual mean*	38.3	µg/m ³
PM ₁₀	28.4	5.73	34.13	µg/m ³	Annual mean	34.1	µg/m ³
					Days >50µg/m ³	45	Days

Link number	Contribution of each link to annual mean				
	CO (mg/m ³)	Benzene (µg/m ³)	1,3-butadiene (µg/m ³)	NO _x (µg/m ³)	PM ₁₀ (µg/m ³)
1	0.23	0.30	0.36	42.33	5.73
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14					
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* See Footnote 4 in DMRB Volume 11 Chapter 3

Receptor number	Name	Year	Pollutant concentrations at receptor						
			CO *	Benzene	1,3-butadiene	NO _x	NO ₂ *	PM ₁₀	
			Annual mean mg/m ³	Annual mean µg/m ³	Annual mean µg/m ³	Annual mean µg/m ³	Annual mean µg/m ³	Annual mean µg/m ³	Days >50µg/m ³
1	Junction 3	2004	0.23	0.30	0.36	90.33	38.29	34.13	45.18

DMRB: Assessment of Local Air Quality

OUTPUT SHEET

Current receptor

Receptor Name	Junction 4	Receptor number	1
Assessment year	2004		

Results

Pollutant	Annual mean				For comparison with Air Quality Standards		
	Background concentration	Road traffic component	Total	Units	Metric	Value	Units
CO	0.00	0.22	0.22	mg/m ³	Annual mean*	0.22	mg/m ³
Benzene	0.00	0.55	0.55	µg/m ³	Annual mean	0.55	µg/m ³
1,3-butadiene	0.00	0.78	0.78	µg/m ³	Annual mean	0.78	µg/m ³
NO _x	19.9	59.5	79.4	µg/m ³	Not applicable		
NO ₂	16.2	13.7	29.9	µg/m ³	Annual mean*	29.9	µg/m ³
PM ₁₀	18.9	7.70	26.60	µg/m ³	Annual mean	26.6	µg/m ³
					Days >50µg/m ³	17	Days

Contribution of each link to annual mean

Link number	CO (mg/m ³)	Benzene (µg/m ³)	1,3-butadiene (µg/m ³)	NO _x (µg/m ³)	PM ₁₀ (µg/m ³)
1	0.22	0.55	0.78	59.46	7.70
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* See Footnote 4 in DMRB Volume 11 Chapter 3

All receptors

Receptor number	Name	Year	Pollutant concentrations at receptor						
			CO *	Benzene	1,3-butadiene	NO _x	NO ₂ *	PM ₁₀	
			Annual mean mg/m ³	Annual mean µg/m ³	Annual mean µg/m ³	Annual mean µg/m ³	Annual mean µg/m ³	Annual mean µg/m ³	Days >50µg/m ³
1	Junction 4	2004	0.22	0.55	0.78	79.36	29.92	26.60	16.54

Appendix 4 Part A & B Processes in Belfast.

IPC No.	Site Operator Name	Site Address 1	Site Address 2	Site Address 3	Town	Post Code	Council Area	Section No.	Process Type
0002/98B	Belfast Terminal	Airport Road west			BELFAST	BT2 7BA	Belfast CC	Section 1.4	Petroleum
0006/98B	Kaneb Terminals Limited	Airport Road	Sydenham		BELFAST	BT3 9DY	Belfast CC	Section 1.4	Petroleum
0012/98B	CalorGas (NI) Ltd	(Jetty Berth Number)	3 Airport Road West	Sydenham	BELFAST	BT3 9EE	Belfast CC	Section 1.1	Gas/Odourisation
0019/99B	Charles Tennant & Co (NI) Ltd	9 Airport Road West			BELFAST	BT3 9ED	Belfast CC	Section 6.3	Roadstone coating
0051/99B	Budore Quarries	15 Sycamore Road		Dundrod	BELFAST	BT29 4JE	Lisburn BC	Section 3.4	Mineral/Quarry
0058/99B	Lagan Bitumen	Airport Road West			BELFAST	BT3 9ED	Belfast CC	Section 6.3	Roadstone coating
0076/99B	Quarry Industries	Upper Ballysillen Quarry	1079 Crumlin Road		BELFAST	BT14 8RX	Belfast CC	Section 3.4	Mineral/Quarry
0090/99B	Shell UK Oil Products Ltd	Shell Bitumen	Airport Road West		BELFAST	BT3 9DY	Belfast CC	Section 6.3	Bitumen
0109/00B	Whitemountain Quarries Ltd	Blackmountain Quarry	243 Upper Springfield Road		BELFAST	BT17 0LT	Belfast CC	Section 3.3 & 6.3	Mineral/Quarry & Roadstone coating
0138/00A	Tennants Textile Colours Ltd	31-43 Ravenhill Road			BELFAST	BT6 8DP	Belfast CC	Section 4.2	Manufacture/Use of organic chemicals
0149/01A	Montupet (UK) Ltd	The Cutts		Dunmurry	BELFAST	BT17 9HN	Lisburn BC	Section 2.2	Non-Ferrous metals
0157/01B	DCC Energy (NI) Ltd (Flogas)	Airport Road West			BELFAST		Belfast CC	Section 1.1	Gas Odourisation
0161/01A	DRD Wastewater Treatment	Dargan Road			BELFAST	BT3 9JS	Belfast CC		Incinerator
0163/01A	Harland & Wolff	Queens Road		Queens Island	BELFAST	BT3 9DU	Belfast CC	Section 6.5	Coating process & painting
0168/01B	DARD - Veterinary Science Division	Stoney Road	Stormont		BELFAST	BT4 3SB	Belfast CC	Section 5.1	Incinerator
0169/01B	Roadmix Ltd	Blackmountain Quarry Mobile Plant	UpperSpringfield Road		BELFAST	BT17 0LT	N/A (Mobile)	Section 3.4	Mobile Crusher
0171/01B	Short Bros PLC		Airport Road		BELFAST	BT3 9DZ	Belfast CC	Section 6.5	Coating process
0183/03B	HMG Powder Coating Ltd	Dill Road	Castlereagh Industrial Estate		BELFAST, Co Antrim	BT6 9HU	Castlereagh CC		

Source: <http://www.ehsni.gov.uk/environment/industrialPollution/Listofpartabprocesses.asp>
 Accessed 24/03/06

Appendix 5 Part C Processes in Belfast.

PROCESS	Ref. No.	PREMISES	ADDRESS
ANIMAL FEED	AFCP1	NORTH WEST SILOS	10a McCAUGHEY ROAD
	AFCP3	DEVENISH NUTRITION	96 DUNCRUE STREET
	AFCP5	JOHN THOMPSON LTD.	35/39 YORK ROAD
	AFCP6	UNITED FEEDS	8 NORTHERN ROAD
AIRCRAFT	CA1	SHORT BROTHERS PLC.	MAIN FACTORY SITE, AIRPORT ROAD
COAL	CCCP1	HAYES COAL No. 3 SITE	MILEWATER BASIN, McCAUGHEY ROAD
	CCCP4	SINCLAIR WHARF	DUFFERIN ROAD
	CCCP5	GOTTO WHARF	NORTHERN ROAD
	CCCP6	STORMONT WHARF	McCAUGHEY ROAD
	CCCP7	CAWOODS FUELS	KELLY SITE 10 HERDMAN CHANNEL ROAD
	CCCP9	COASTAL CONTAINER LINE	VICTORIA TERMINAL 3, WESTBANK ROAD
	CCCP10	WEST TWIN SQUARE SITE	WEST TWIN SQUARE, McCAUGHEY ROAD
	CCCP11	LISSAN COAL	SITE 1 McCAUGHEY ROAD
	CCCP12	HAYES COAL No. 1 SITE	50 BALLYUTOAG ROAD
	CCCP14	McCAUGHEY ROAD No. 2 SITE	McCAUGHEY ROAD
	CCCP15	CONEXPO	HERDMAN CHANNEL ROAD
DRUM COATING	CGC1	PRESSURE TEST SERVICES	MUSGRAVE PARK INDUSTRIAL ESTATE
CEMENT	CLM1	LAFARGE (CIVIL & MARINE)	7 SINCLAIR ROAD
	CLM4	LAFARGE CEMENT IRELAND	GOTTO WHARF
	CLM6	LAGAN CEMENT	McCAUGHEY ROAD
	POWDER COATING	PC1	FG WILSON (ENG) LTD.
ROLLING STOCK	CRV1	TRANSLINK (TRAINS)	1 YORK ROAD
VEHICLE SPRAYING	RRV1	DALY'S GARAGE	40 BEECHMOUNT GROVE
	RRV2	BODYTECH	27/29 RYDALMERE STREET
	RRV3	CAR MAINTENANCE WORKS	231 WOODSTOCK ROAD
	RRV4	CRAWFORD'S ACCIDENT REPAIR	22/30 SYDNEY STREET WEST
	RRV6	TRANSLINK U/BUS CENT/WSHOP	DUNCRUE STREET
	RRV7	J&W BODY REPAIRS	77/77a LOOPLAND PARK
	RRV8	TRANSLINK CITYBUS ENG/WSHOP	515/517 FALLS ROAD
	RRV9	AGNEW REPAIR CENTRE	69/71 BOUCHER CRESCENT
	TIMBER	TIMP2	BROOKS TIMBER
TIMP3		RTD CRAWFORD	20 NORTHERN ROAD
TIMP5		IRVIN & SELLERS	24/28 DUNCRUE STREET
FAT REFINING	VOE1	DUNCRUE FOOD PROCESSORS (No2)	DUNCRUE ROAD
	VOE2	ROF ENVIRONMENTAL SERVICES	DUFFERIN ROAD

Appendix 6 Bias-corrected Diffusion Tubes, 2005.

Checking Precision and Accuracy of Triplicate Tubes													netcen	
Period	Diffusion Tubes Measurements									Automatic Method		Data Quality Check		
	Start Date dd/mm/yyyy	End Date dd/mm/yyyy	Tube 1 µgm ⁻³	Tube 2 µgm ⁻³	Tube 3 µgm ⁻³	Triplicate Mean	Standard Deviation	Coefficient of Variation (CV)	95% CI of mean	Period Mean	Data Capture (DC)	Tubes Precision Check	Automatic Monitor Data Capture Check	
1	05/01/2005	01/02/2005	35.0	22.0	34.0	30	7.2	24	18.0	25	99	Poor Precision	Good	
2	01/02/2005	02/03/2005	24.0	21.0	23.0	23	1.5	7	3.8	31	99	Good	Good	
3	02/03/2005	30/03/2005	31.0	34.0	34.0	33	1.7	5	4.3	30	93	Good	Good	
4	30/03/2005	03/05/2005	8.0	6.0	7.0	7	1.0	14	2.5		0	Good	Poor Data Capture	
5	03/05/2005	31/05/2005	23.0	21.0	23.0	22	1.2	5	2.9		0	Good	Poor Data Capture	
6	31/05/2005	28/06/2005	24.0	19.0	19.0	21	2.9	14	7.2		0	Good	Poor Data Capture	
7	28/06/2005	02/08/2005	25.0	19.0	19.0	21	3.5	16	8.6		0	Good	Poor Data Capture	
8	02/08/2005	31/08/2005	31.0	32.0	24.0	29	4.4	15	10.8		0	Good	Poor Data Capture	
9	31/08/2005	04/10/2005	21.0	26.0	21.0	23	2.9	13	7.2	23	75	Good	Good	
10	04/10/2005	02/11/2005	33.0	30.0	31.0	31	1.5	5	3.8	29	94	Good	Good	
11	02/11/2005	29/11/2005	43.0	38.0	30.0	37	6.6	18	16.3	45	95	Good	Good	
12	29/11/2005	04/01/2006	43.0	42.0	36.0	40	3.8	9	9.4	46	95	Good	Good	
13														

It is necessary to have results for at least two tubes in order to calculate the precision of the measurements

Site Name/ ID: **Lombard Street (Nos 16, 19, 20)**

Accuracy (with 95% confidence)
without periods with CV larger than 20%
Bias calculated using 6 periods of data
Bias factor A 1.104 +/- 0.190
Bias B -7 +/- 17 %

Diffusion Tubes Mean: **31 µgm⁻³**
Mean CV (Precision): **9**

Automatic Mean: **34 µgm⁻³**
Data Capture for periods used: **92**

Adjusted Tubes Mean: **34 +/-6 µgm⁻³**

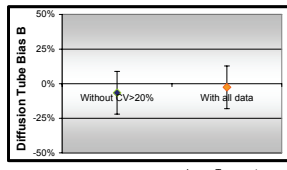
Precision 11 out of 12 periods have a CV smaller than 20%

Accuracy (with 95% confidence)
with all the data
Bias calculated using 7 periods of data
Bias factor A 1.069 +/- 0.173
Bias B -3 +/- 16 %

Diffusion Tubes Mean: **31 µgm⁻³**
Mean CV (Precision): **12** *caution*

Automatic Mean: **33 µgm⁻³**
Data Capture for periods used: **93**

Adjusted Tubes Mean: **33 +/-6 µgm⁻³**



Jaume Targa netcen
jaume.targa@ceat.co.uk
Version 01 - April 2005

Site Name/ID	Periods													Raw Mean	Valid periods	
	1	2	3	4	5	6	7	8	9	10	11	12	13			
Royal Victoria Hospital 1	23.0	5.0		23.0	17.0	18.0	23.0		18.0	23.0					18.8	8
Black's Rd 2	33.0	27.0	33.0	41.0	21.0	24.0	33.0	33.0	33.0	61.0	56.0				35.7	12
Cromic Street 3	41.0	32.0	43.0	36.0	29.0	20.0	26.0	33.0	34.0	31.0	47.0	60.0			36.0	12
Ravenhill Road 4	39.0	22.0	19.0	34.0	22.0	25.0	26.0	25.0	24.0	27.0	26.0				26.3	11
North Road 6	35.0	7.0	19.0	20.0	12.0	18.0	22.0	26.0	21.0	13.0	28.0	29.0			20.8	12
Donegal Square North 7	36.0	28.0	17.0	39.0	31.0	30.0	35.0	31.0	26.0	38.0	55.0	47.0			34.4	12
Milner Street 8			23.0	38.0			27.0	24.0	26.0	13.0	33.0	32.0			27.0	8
Short Strand 9	20.0	32.0		37.0		92.0	22.0					36.0			39.8	6
301 Ormeau 10	30.0	25.0	20.0	15.0	18.0				19.0	20.0	28.0	25.0			22.2	9
400 Ormeau 11	30.0	22.0	27.0	27.0	22.0	21.0	21.0	27.0	15.0	27.0	39.0	32.0			25.8	12
Knock Road 12	37.0	30.0	20.0	30.0	21.0	24.0	20.0	40.0	36.0	44.0	46.0	47.0			32.9	12
Great George 13	48.0	35.0	36.0	45.0	23.0	22.0	45.0	33.0	31.0	34.0	41.0	60.0			37.8	12
Lisburn Road 14	34.0	26.0	16.0		22.0	25.0		32.0	24.0	32.0	36.0	45.0			29.2	10
Stockmans Lane 15	25.0	29.0	22.0	30.0	24.0	21.0	14.0	36.0	23.0	30.0	41.0	54.0			29.1	12
Victoria Street 18	29.0	28.0	22.0	31.0	23.0	25.0	28.0	35.0	34.0	31.0	38.0	41.0			30.4	12
Whitewell Road 25	33.0	21.0	25.0	20.0		18.0	15.0	19.0	18.0	27.0	20.0	21.0			21.5	11
Ivan Street 26					20.0		21.0			30.0	45.0	50.0			33.2	5
Mean Upper Newtownards Rd	28.0	21.0	34.3	37.7	22.3	24.0	19.3	32.7	26.3	30.7	38.7	36.7			29.3	12
Mean Westlink	33.0	20.0	43.0	48.0	39.0	26.0	34.0	27.0	34.0	47.0	37.0	37.0			35.4	12

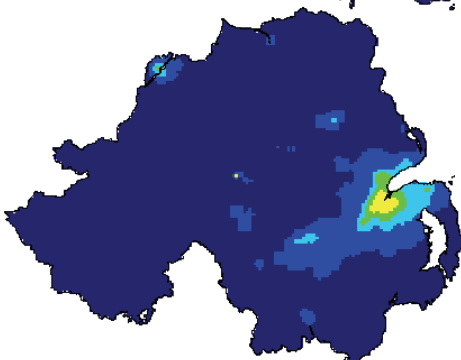
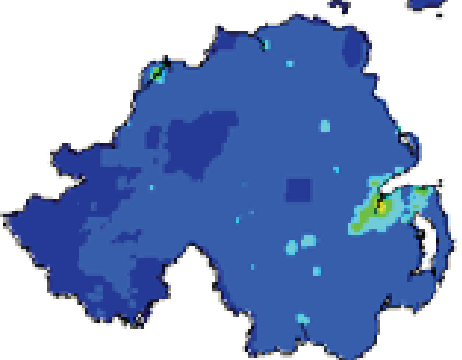
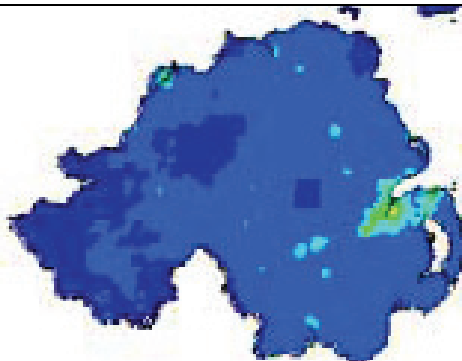
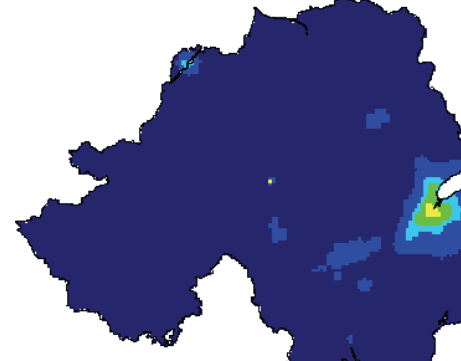
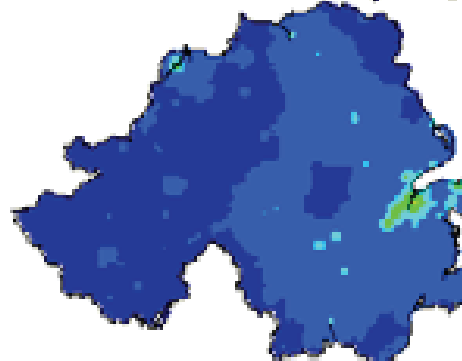
















7 periods used in this calculations
Bias Factor A 1.069 +/- 0.173
Bias B -3 +/- 16 %

Tube Precision: 12 Automatic DC: 9.289%

20 +/- 4 µgm⁻³
38 +/- 7 µgm⁻³
38 +/- 7 µgm⁻³
28 +/- 5 µgm⁻³
22 +/- 4 µgm⁻³
37 +/- 7 µgm⁻³
29 +/- 5 µgm⁻³
43 +/- 8 µgm⁻³
24 +/- 5 µgm⁻³
28 +/- 5 µgm⁻³
35 +/- 6 µgm⁻³
40 +/- 7 µgm⁻³
31 +/- 6 µgm⁻³
31 +/- 6 µgm⁻³
33 +/- 6 µgm⁻³
23 +/- 4 µgm⁻³
35 +/- 7 µgm⁻³
31 +/- 6 µgm⁻³
38 +/- 7 µgm⁻³
#VALUE! +/- ## µgm⁻³
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#VALUE! +/- ## µgm⁻³

The bias adjustment factor used in these calculations include all the data and no screening of data due to poor precision has been applied.

Appendix 7 Particulate Background Maps for Northern Ireland.

	Original Background Maps	Background Maps Updated January 2006
2004		
2005		
2010		
	<ul style="list-style-type: none">  Below 15  15 - 18  18 - 20  20 - 23  23 - 28  28 - 31.5  Above 31.5  No Data 	<ul style="list-style-type: none">  BELOW 10  10 - 15  15 - 20  20 - 25  25 - 30  30 - 35  35 - 40  ABOVE 40