

# ANNEX B.

## B.1 Canadian Criteria Air Contaminant Emissions (Tonnes), 2005 (Excludes Open Sources)

CATEGORY / SECTOR	NOX		CATEGORY / SECTOR	SO2
Transportation	1,244,428	52%	Transportation	66,321
Upstream Oil and Gas (Including Oil Sands)	532,717		Other Sources	49,452
Petroleum Refining	31,204		Base Metals	669,967
Electricity	244,691		Upstream Oil and Gas (Including Old Sands)	349,567
Other Industrial Sectors	240,461		Petroleum Refining	98,518
Other Sources	83,984		Electricity	519,835
			Other Four Key Industrial Sectors	155,743
			Remaining Industrial Sectors	145,955
<b>Total</b>	<b>2,377,485</b>		<b>Total</b>	<b>2,055,358</b>

CATEGORY / SECTOR	PM2.5		CATEGORY / SECTOR	VOC
Transportation	63,468		Transportation	593,789
Wood Industry	19,302		Upstream Oil and Gas (including Oil Sands)	552,560
Pulp and Paper	14,891		Petroleum Refining	15,188
Other Industrial Sectors	29,749		Electricity	1,975
Upstream Oil and Gas (including Oil Sands)	11,446		Fuel Marketing	97,635
Petroleum Refining	3,647		Remaining Industrial Sectors	167,410
Electricity	7,997		Solvent Use	239,544
Consumer and Commercial Products	41,008		Wood Stoves	152,883
Other	119,362		Other Sources	114,328
<b>Total</b>	<b>310,870</b>		<b>Total</b>	<b>1,935,312</b>

Source: Environment Canada. April 2007. Criteria Air Contaminants Inventory. Pollution Data Division.

## B.2 NO<sub>x</sub> Anthropogenic Emissions By sector (kT), 1990 to 2005 (Excludes Open Sources)

CATEGORY / SECTOR	1990	1995	2000	2002	2005	2010	2015
On-road	869	774	668	624	529	383	224
Off-road, Marine, Rail, and Aviation	686	722	724	729	715	645	559
Upstream Oil and Gas Industry (includes Oil Sands)	243	328	420	478	533	572	632
Other Industrial Sectors	274	303	258	289	272	296	307
Electricity	263	260	297	279	245	268	267
Other	75	77	84	88	84	93	96
<b>Total</b>	<b>2342</b>	<b>2489</b>	<b>2456</b>	<b>2469</b>	<b>2364</b>	<b>2314</b>	<b>2182</b>

Note: Emissions for 2005 and beyond are projections. Other industrial sectors include all remaining industrial sectors other than the upstream oil and gas industry. Other includes incineration, miscellaneous, and residential & commercial fuel (including wood) combustion

**Source:** Environment Canada. July 2006. Criteria Air Contaminants Inventory. Pollution Data Division.

### B.3

#### SO<sub>x</sub> Anthropogenic Emissions By sector (kT), 1990 to 2005 (Excludes Open Sources)

CATEGORY / SECTOR	1990	1995	2000	2002	2005	2010	2015
Base Metal Industry	1413	880	766	762	670	768	621
Upstream Oil and Gas (Including Old Sands)	457	543	365	387	350	436	436
Other Industrial Sectors	520	503	382	389	400	372	375
Electricity	696	539	640	621	520	486	489
Transportation	113	100	78	75	66	44	44
Other	53	32	36	33	49	51	51
Total	3185	2469	2263	2267	2315	2155	2015

**Note:** Emissions for 2005 and beyond are projections. Other industrial sectors include all remaining industrial sectors other than base metal smelting and the upstream oil and gas industry. Other includes incineration, miscellaneous, and residential and commercial fuel (including wood) combustion.

**Source:** Environment Canada. July 2006. Criteria Air Contaminants Inventory. Pollution Data Division.

### B.4

#### VOC Anthropogenic Emissions By sector (kT), 1990 to 2005 (Excludes Open Sources)

CATEGORY / SECTOR	1990	1995	2000	2002	2005	2010	2015
Upstream Oil and Gas Industry (including Oil Sands)	437	551	576	602	553	1017	1059
Other Industrial Sectors	381	335	309	325	282	377	394
Transportation	990	865	749	689	594	487	379
Solvent	287	250	269	249	240	287	307
Residential Wood Combustion (e.g. Woodstoves)	233	141	151	159	153	165	171
Other	236	180	148	147	108	149	163
Total	2564	2472	2211	2170	2394	2506	2517

**Note:** Emissions for 2005 and beyond are projections. Other industrial sectors include all remaining industrial sectors other than the upstream oil and gas industry. Other category includes incineration, miscellaneous, electricity and residential and commercial fuel (excluding wood) combustion.

**Source:** Environment Canada. July 2006. Criteria Air Contaminants Inventory. Pollution Data Division.

### B.5

#### PM<sub>2.5</sub> Anthropogenic Emissions By sector (kT), 1990 to 2005 (Excludes Open Sources)

CATEGORY / SECTOR	1990	1995	2000	2002	2005	2010	2015
On-road	22	19	12	11	9	5	3
Off-road, Marine, Rail, and Aviation	68	67	60	57	55	48	39
Upstream Oil and Gas Industry (includes Oil Sands)	8	11	11	11	11	15	18
Other Industrial Sectors	193	160	141	168	109	160	173
Electricity	33	28	22	13	8	18	16
Other	136	120	119	135	122	130	136
Total	461	404	366	395	315	376	385

**Note:** Emissions for 2005 and beyond are projections. Other industrial sectors include all remaining industrial sectors other than the wood industry and the pulp and paper industry. Other includes incineration, miscellaneous, and residential and commercial fuel (excluding wood) combustion.

**Source:** Environment Canada. July 2006. Criteria Air Contaminants Inventory. Pollution Data Division.

