

## Criteria Pollutants as Reported in the North Carolina Emission Inventories

(Note: Ammonia is considered a criteria pollutant precursor but is reported in NC as a TAP)

Symbol	Pollutants
PM2.5	PM2.5 (Particles smaller than 2.5 micrometers aerodynamic, including condensibles)
PM10	PM10 (Particles smaller than 10 micrometers aerodynamic, including condensibles)
PT	PM (TSP-larger, non-sized airborne particles, including condensibles)
SO2	SO2
NO2	NOx (as NO2)
CO	CO (carbon monoxide)
VOC	VOC (Meeting Federal Definition as photochemically reactive)

Compilation of Hazardous and Toxic Air Pollutants For North Carolina Emission Inventory and Permitting Purposes  
(for a listing of content of groups of substances, see separate report)

\* de minimus value does not negate any permit requirement to assess and model any pollutant

Pollutant Code or CAS	Description	TAP	HAP	VOC	PM	de minimus* (pounds/yr)
A						
83329	Acenaphthene (Component of 83329/POMTV)		Y		Y	1
208968	Acenaphthylene (Component of 83329/POMTV)		Y		Y	1
75070	Acetaldehyde	Y	Y	Y		10
60355	Acetamide		Y	Y		10
64197	Acetic acid	Y		Y		100
75058	Acetonitrile		Y	Y		100
98862	Acetophenone		Y	Y		100
53963	Acetylaminofluorene,2 (Component of 83329/POMTV)		Y	Y	Y	1
107028	Acrolein	Y	Y	Y		10
79061	Acrylamide		Y	Y		100
79107	Acrylic acid		Y	Y		10
107131	Acrylonitrile	Y	Y	Y		10
107051	Allyl chloride		Y	Y		100
92671	Aminobiphenyl, 4- (Component of 83329/POMTV)		Y		Y	1
7664417	Ammonia (as NH3)	Y				100
7788989	Ammonium chromate (VI) (Component of SolCR6 )	Y	Y		Y	0.01
7789095	Ammonium dichromate(VI)(Component of SolCR6 )	Y	Y		Y	0.01
62533	Aniline	Y	Y	Y		1
90040	Anisidine, o-		Y	Y		1
120127	Anthracene (Component of 83329/POMTV)		Y		Y	1
SBC	Antimony & Compounds (total mass, inc elemental SB)		Y		Y	10
7440360	Antimony Metal - (Component of SBC)		Y		Y	10
SBC-Other	Antimony Unlisted Compounds - Specify Compound (Component of SBC)		Y		Y	10
1327339	Antimony oxide (Component of SBC)		Y		Y	10
7783702	Antimony pentafluoride (Component of SBC)		Y		Y	10
10025919	Antimony trichloride (Component of SBC)		Y		Y	10
1309644	Antimony trioxide (Component of SBC)		Y		Y	1
1345046	Antimony trisulfide (Component of SBC)		Y		Y	10
ASC(7778394)	Arsenic & Compounds (total mass of elemental AS, arsine and all inorganic compounds)	Y	Y		Y	0.01
7784421	Arsenic Compounds - Arsine gas (Component of ASC)		Y		Y	0.01
7440382	Arsenic Metal, elemental, unreacted (Component of ASC)		Y		Y	0.01
ASC-Other	Arsenic Unlisted Compounds - Specify Compound (Component of ASC)		Y		Y	0.01
1327522	Arsenic acid (Component of ASC)		Y		Y	0.01
1303282	Arsenic pentoxide (Component of ASC)		Y		Y	0.01
1327533	Arsenic trioxide (Component of ASC)		Y		Y	0.01
1332214	Asbestos	Y	Y		Y	0.001
151564	Aziridine (ethylene imine)	Y	Y	Y		10
B						
10294403	Barium chromate (Component of CRC & NSCR6)	Y	Y		Y	0.01
56553	Benz(a)anthracene (Component of 83329/POMTV & 56553/7PAH)		Y		Y	1
71432	Benzene	Y	Y	Y		1
92875	Benzidine & salts (Component of 83329/POMTV)	Y	Y	Y	Y	1
50328	Benzo(a)pyrene (Component of 83329/POMTV & 56553/7PAH)	Y	Y	Y	Y	1
205992	Benzo(b)fluoranthene (Component of 83329/POMTV & 56553/7PAH)		Y		Y	1
191242	Benzo(g,h,i)perylene (Component of 83329/POMTV)		Y		Y	1
207089	Benzo(k)fluoranthene (Component of 83329/POMTV & 56553/7PAH)		Y		Y	1
98077	Benzotrichloride		Y	Y		10
100447	Benzyl chloride	Y	Y	Y		10

BEC	Beryllium & compounds (Total mass)	Y	Y	Y	1
7440417	Beryllium Metal (unreacted) (Component of BEC)	Y	Y	Y	1
BEC-Other	Beryllium Unlisted Compounds - Specify Compound (Component of BEC)		Y	Y	1
7787475	Beryllium chloride (Component of BEC)	Y	Y	Y	1
7787497	Beryllium fluoride (Component of BEC & 16984488/Fluorides)	Y	Y	Y	1
13597994	Beryllium nitrate (Component of BEC)	Y	Y	Y	1
92524	Biphenyl (Component of 83329/POMTV)		Y	Y	10
542881	Bis-chloromethyl ether	Y	Y	Y	0.01
7726956	Bromine	Y			10
75252	Bromoform		Y	Y	10
106990	Butadiene, 1,3-	Y	Y	Y	1
112072	Butoxyethyl Acetate 2- (Component of GLYET)		Y	Y	100
124174	Butyl Carbitol Acetate (Component of GLYET)		Y	Y	100
C					
76131	CFC- 113 (1,1,2-trichloro-1,2,2-trifluoroethane)	Y			100
75694	CFC-11 (Trichlorofluoromethane)	Y			100
75718	CFC-12 (Dichlorodifluoromethane)	Y			100
CDC	Cadmium & compounds (total mass includes elemental metal)		Y	Y	0.1
7440439	Cadmium Metal, elemental, unreacted (Component of CDC)	Y	Y	Y	0.1
CDC-Other	Cadmium Unlisted Compounds - Specify Compound (Component of CDC)		Y		0.1
543908	Cadmium acetate (Component of CDC)	Y	Y	Y	0.1
7789426	Cadmium bromide (Component of CDC)	Y	Y	Y	0.1
10108642	Cadmium chloride (Component of CDC)		Y	Y	0.01
7790809	Cadmium iodide (Component of CDC)		Y	Y	0.1
10325947	Cadmium nitrate (Component of CDC)		Y	Y	0.1
2223930	Cadmium octadecanoic acid (Component of CDC)		Y	Y	0.1
1306190	Cadmium oxide (Component of CDC)		Y	Y	0.01
10124364	Cadmium sulfate (Component of CDC)		Y	Y	0.01
1306236	Cadmium sulfide (Component of CDC)		Y	Y	0.01
13765190	Calcium chromate (VI) (Component of BioCR6 & CRC)	Y	Y	Y	0.01
156627	Calcium cyananide (Component of CNC)		Y	Y	100
14307336	Calcium dichromate (VI) (Component of BioCR6 & CRC)	Y	Y	Y	0.01
133062	Captan		Y	Y	10
63252	Carbaryl (Component of 83329/POMTV)		Y	Y	10
75150	Carbon disulfide	Y	Y		10
56235	Carbon tetrachloride	Y	Y	Y	1
463581	Carbonyl sulfide		Y	Y	1
120809	Catechol		Y	Y	100
111159	Cellosolve Acetate (ethylene glycol monoethyl ether acetate) (Component of GLYET)		Y	Y	100
133904	Chloramben		Y	Y	1
57749	Chlordane		Y	Y	1
7782505	Chlorine	Y	Y		100
79118	Chloroacetic acid		Y	Y	100
532274	Chloroacetophenone, 2-		Y	Y	0.1
108907	Chlorobenzene	Y	Y	Y	10
510156	Chlorobenzilate (Component of 83329/POMTV)		Y	Y	1
67663	Chloroform	Y	Y	Y	100
107302	Chloromethyl methyl ether		Y	Y	0.01
126998	Chloroprene	Y	Y	Y	10
BioCR6	Chromate (VI) Bioavailable Pigments as a Group (Component of BioCR6 & CRC)	Y	Y	Y	0.01
7738945	Chromic acid (VI) (Component of SolCR6 & CRC)	Y	Y	Y	0.01
10101538	Chromic sulfate (III) (Component of CRC)		Y	Y	0.1
13530682	Chromic sulfuric acid (Component of CRC)		Y	Y	0.1

NSCR6	Chromium (VI) Non-Specific Compounds, as Chrom(VI) (Component CRC)	Y	Y	Y	0.01
NSCR6-Other	Chromium (VI) Non-Specific Unlisted Compounds - Specify Compound (Component of NSCR6 & CRC)				0.01
SolCR6	Chromium (VI) Soluble Chromate Compounds (Component of CRC)	Y	Y	Y	0.01
CRC	Chromium - All/Total (includes Chromium (VI) categories, metal and others)		Y	Y	0.1
CRC-Other	Chromium Unlisted Compounds - Specify Compound (Component of CRC)				0.1
10049055	Chromium chloride (II) (Component of CRC)		Y	Y	0.1
12018018	Chromium dioxide (IV) (Component of CRC)	Y	Y	Y	0.01
1308141	Chromium hydroxide (II) (Component of CRC)		Y	Y	0.1
1333820	Chromium trioxide (VI) (Component of NSCR6 & CRC)	Y	Y	Y	0.01
12018198	Chromium zinc oxide (Component of CRC)		Y	Y	0.1
14977618	Chromyl chloride (VI) (Component of NSCR6 & CRC)	Y	Y	Y	0.01
7788967	Chromyl fluoride(VI) (Component of NSCR6 & CRC)	Y	Y	Y	0.01
218019	Chrysene (Component of 83329/POMTV & 56553/7PAH)		Y	Y	1
COC	Cobalt & compounds		Y	Y	1
COC-Other	Cobalt Unlisted Compounds - Specify Compound (Component of COC)				1
1345160	Cobalt aluminate (Component of COC)		Y	Y	1
16842038	Cobalt carbonate (Component of COC)		Y	Y	1
1319773	Cresol (mixed isomers)	Y	Y	Y	10
108394	Cresol, m-	Y	Y		10
95487	Cresol, o-	Y	Y		10
106445	Cresol, p-	Y	Y		10
98828	Cumene		Y	Y	100
CNC	Cyanide & compounds (see also hydrogen cyanide)		Y		10
CNC-Other	Cyanide Unlisted Compounds - Specify Compound (Component of CNC)				1
140294	Cyanide, benzyl (Component of CNC)		Y		10
D					
94757	D, 2,4 (salts & esters) (2,4-dichlorophenoxyacetic acid)		Y	Y	1
3547044	DDE (p,p'-dichlorodiphenyl ethane) (Component of 83329/POMTV)		Y	Y	1
117817	DEHP (Di(2-ethylhexyl)phthalate)	Y	Y	Y	10
334883	Diazomethane		Y	Y	0.1
53703	Dibenzo(a,h)anthracene (Component of 83329/POMTV & 56553/7PAH)		Y	Y	1
96128	Dibromo-3-chloropropane, 1,2-		Y	Y	10
84742	Dibutylphthalate		Y	Y	100
106467	Dichlorobenzene(p), 1,4-		Y	Y	1
91941	Dichlorobenzidine, 3,3'- (Component of 83329/POMTV)		Y	Y	1
111444	Dichloroethyl ether		Y	Y	10
75434	Dichlorofluoromethane	Y		Y	100
542756	Dichloropropene, 1,3-		Y	Y	1
62737	Dichlorvos		Y	Y	100
111422	Diethanolamine		Y	Y	100
121697	Diethyl aniline, N,N-		Y	Y	100
64675	Diethyl sulfate		Y	Y	1
119904	Dimethoxybenzidine, 3,3- (Component of 83329/POMTV)		Y	Y	1
60117	Dimethyl aminoazobenzene		Y	Y	1
79447	Dimethyl carbamoyl chloride		Y	Y	1
624920	Dimethyl disulfide			Y	10
68122	Dimethyl formamide		Y	Y	1
57147	Dimethyl hydrazine, 1,1-		Y	Y	1
131113	Dimethyl phthalate		Y	Y	10

77781	Dimethyl sulfate	Y	Y	Y	1
75183	Dimethyl sulfide			Y	1
119937	Dimethylbenzidine, 3,3'- (Component of 83329/POMTV)		Y	Y	Y 1
534521	Dinitro-o-cresol, 4,6- (& salts)		Y	Y	1
51285	Dinitrophenol, 2,4-		Y	Y	0.1
121142	Dinitrotoluene, 2,4-		Y	Y	0.1
123911	Dioxane, 1,4-	Y	Y	Y	0.01
122667	Diphenylhydrazine, 1,2-		Y	Y	0.1
E					
106898	Epichlorohydrin	Y	Y	Y	1
106887	Epoxybutane, 1,2-		Y	Y	1
141786	Ethyl acetate	Y		Y	10
140885	Ethyl acrylate		Y	Y	10
100414	Ethyl benzene		Y	Y	100
51796	Ethyl carbamate (urethane)		Y	Y	0.1
75003	Ethyl chloride (chloroethane)		Y	Y	10
75081	Ethyl mercaptan	Y		Y	10
106934	Ethylene dibromide (dibromoethane)	Y	Y	Y	1
107062	Ethylene dichloride (1,2-dichloroethane)	Y	Y	Y	1
107211	Ethylene glycol		Y	Y	100
110805	Ethylene glycol monoethyl ether (Cellusolve) (Component of GLYET)	Y		Y	100
75218	Ethylene oxide	Y	Y	Y	1
96457	Ethylene thiourea		Y	Y	100
107153	Ethylenediamine	Y		Y	1
75343	Ethylidene dichloride (1,1-dichloroethane)		Y	Y	100
F					
FMF	Fine mineral fibers		Y		Y 0.01
206440	Fluoranthene (Component of 83329/POMTV)		Y		Y 1
86737	Fluorene (Component of 83329/POMTV)		Y		Y 1
16984488	Fluorides (sum of all fluoride compounds as mass of F ion)	Y			10
7782414	Fluorine (Component of Fluorides)	Y			10
50000	Formaldehyde	Y	Y	Y	10
132649	Furans - Dibenzofurans (group total - CAA - unchlorinated) (Component of 83329/POMTV)		Y	Y	Y 0.001
G					
GLYET-Other	Glycol Ethers, Unlisted - Specify Compound (component of GLYET) (See <a href="http://daq.state.nc.us/toxics">http://daq.state.nc.us/toxics</a> )				100
GLYET	Glycol ethers (total all individual glycol ethers-See <a href="http://daq.state.nc.us/toxics/glycol/">http://daq.state.nc.us/toxics/glycol/</a> )		Y	Y	100
H					
76448	Heptachlor		Y		Y 10
118741	Hexachlorobenzene		Y	Y	10
87683	Hexachlorobutadiene		Y	Y	10
77474	Hexachlorocyclopentadiene	Y	Y	Y	10
34465468	Hexachlorodibenzo dioxin mixture	Y		Y	0.00001
57653857	Hexachlorodibenzo-p-dioxin 1,2,3,6,7,8	Y		Y	0.00001
67721	Hexachloroethane		Y	Y	10
822060	Hexamethylene-1,6-diisocyanate		Y	Y	1
680319	Hexamethylphosphoramide		Y	Y	10
HEXANEISO	Hexane isomers, except n-hexane	Y		Y	100
110543	Hexane, n-	Y	Y	Y	100
302012	Hydrazine	Y	Y		10
7647010	Hydrogen chloride (hydrochloric acid)	Y	Y		100
74908	Hydrogen cyanide (as HCN) (Component of CNC)	Y	Y		10
7664393	Hydrogen fluoride (hydrofluoric acid as mass of HF) (Component of 16984488/Fluorides)	Y	Y		100

7783075	Hydrogen selenide		Y		10
7783064	Hydrogen sulfide	Y			1
123319	Hydroquinone		Y	Y	10
I					
193395	Indeno(1,2,3-cd)pyrene (Component of 83329/POMTV & 56553/7PAH)		Y		Y 1
78591	Isophorone		Y	Y	1
L					
PBC	Lead & compounds		Y		Y 1
PBC-Other	Lead Unlisted Compounds - Specify Compound (Component of PBC)				10
7784409	Lead arsenate (Component of PBC & ASC)		Y		Y 0.01
598630	Lead carbonate (Component of PBC)		Y		Y 10
7758976	Lead chromate (VI) (Component of PBC, NSCR6, & CRC)	Y	Y		Y 0.01
1309600	Lead dioxide (Component of PBC)		Y		Y 10
10099748	Lead nitrate (Component of PBC)		Y		Y 10
1317368	Lead oxide (Component of PBC)		Y		Y 10
7446142	Lead sulfate (Component of PBC)		Y		Y 10
58899	Lindane (all isomers)		Y		Y 10
M					
78933	MEK (methyl ethyl ketone, 2-butanone)	Y		Y	100
108101	MIBK (methyl isobutyl ketone)	Y	Y	Y	10
108316	Maleic anhydride	Y	Y	Y	10
MNC	Manganese & compounds	Y	Y		Y 10
MNC-Other	Manganese Unlisted Compounds - Specify Compound (Component of MNC)	Y	Y		Y 10
12079651	Manganese cyclopentadienyl tricarbonyl (Component of MNC)	Y	Y		Y 10
10377669	Manganese nitrate (Component of MNC)	Y	Y		Y 100
1317346	Manganese oxide (Component of MNC)	Y	Y		Y 100
7785877	Manganese sulfate (Component of MNC)	Y	Y		Y 100
8030704	Manganese tellurate (Component of MNC)	Y	Y		Y 100
1317357	Manganese tetroxide (Component of MNC)	Y	Y		Y 100
7487947	Mercuric chloride (Component of HGC)	Y	Y		Y 0.001
HGC	Mercury & Compounds - all total mass includes Hg Vapor	Y	Y		Y 0.001
MERCALKYL	Mercury - alkyl compounds, total mass (Component of HGC)	Y	Y		Y 0.001
HGC-Other	Mercury Unlisted Compounds - Specify Compound (Component of HGC)	Y			0.001
MERCARYL	Mercury, aryl and inorganic compounds (Component of HGC)	Y	Y		Y 0.001
7439976	Mercury, vapor (Component of HGC)	Y	Y		0.001
67561	Methanol (methyl alcohol)		Y	Y	1000
72435	Methoxychlor		Y	Y	Y 100
74839	Methyl bromide (bromomethane)		Y	Y	1
74873	Methyl chloride (chloromethane)		Y	Y	1
71556	Methyl chloroform	Y	Y		100
60344	Methyl hydrazine		Y	Y	10
74884	Methyl iodide (iodomethane)		Y	Y	10
624839	Methyl isocyanate		Y	Y	1
74931	Methyl mercaptan	Y		Y	1
80626	Methyl methacrylate		Y	Y	1000
1634044	Methyl tertiary butyl ether (MTBE)		Y	Y	100
101144	Methylene bis(2-chloroaniline), 4,4- (Component of 83329/POMTV)		Y	Y	1
75092	Methylene chloride	Y	Y		1
101688	Methylene diphenyl diisocyanate (MDI) (Component of 83329/POMTV)		Y	Y	10
101779	Methylenedianiline, 4,4-		Y	Y	1
N					

91203	Naphthalene (Component of 83329/POMTV)		Y	Y	Y	1
NIC	Nickel & Compounds, sum total mass includes elemental		Y		Y	1
NIC-Other	Nickel Unlisted Compounds (Component of NIC - Specify)					1
373024	Nickel acetate(Component of NIC)		Y		Y	1
13462889	Nickel bromide (Component of NIC)		Y		Y	1
12710360	Nickel carbide (Component of NIC)		Y		Y	1
13463393	Nickel carbonyl (Component of NIC)	Y	Y		Y	1
7718549	Nickel chloride (Component of NIC & NICKSOLCP)	Y	Y		Y	1
7440020	Nickel metal (Component of NIC)	Y	Y		Y	1
13138459	Nickel nitrate (Component of NIC & NICKSOLCP)	Y	Y		Y	1
12035722	Nickel subsulfide (Component of NIC)	Y	Y		Y	1
7786814	Nickel sulfate (Component of NIC & NICKSOLCP)	Y	Y		Y	1
NICKSOLCP	Nickel, soluble compounds as nickel (Component of NIC)	Y	Y		Y	1
7697372	Nitric acid	Y			Y	100
98953	Nitrobenzene	Y	Y	Y		10
92933	Nitrobiphenyl, 4- (Component of 83329/POMTV)		Y	Y	Y	1
100027	Nitrophenol, 4-		Y	Y		10
79469	Nitropropane, 2-		Y	Y		10
684935	Nitroso-N-methylurea, N-		Y	Y		1
62759	Nitrosodimethylamine, N-	Y	Y	Y		1
59892	Nitrosomorpholine, N-		Y	Y		10
O						
10028156	Ozone					1000
P						
1336363	PCB (polychlorinated biphenyls)	Y	Y	Y		10
56382	Parathion		Y		Y	1
82688	Pentachloronitrobenzene (quintobenzene)		Y		Y	10
87865	Pentachlorophenol	Y	Y		Y	1
127184	Perchloroethylene (tetrachloroethylene)	Y	Y			100
85018	Phenanthrene (Component of 83329/POMTV)		Y		Y	1
108952	Phenol	Y	Y	Y		100
106503	Phenylenediamine, p-		Y	Y		100
75445	Phosgene	Y	Y			10
7803512	Phosphine	Y	Y			10
7723140	Phosphorus Metal, Yellow or White		Y		Y	1
10025873	Phosphorus oxychloride					1
7719122	Phosphorus trichloride					1
85449	Phthalic anhydride		Y	Y		10
56553/7PAH	Polycyclic Organic Matter (7 PAH Compounds for NIF)		Y		Y	1
POM	Polycyclic Organic Matter (Inc PAH, dioxins, etc. NC & AP 42 historic)		Y		Y	1
83329/POMTV	Polycyclic Organic Matter (Specific Compounds from OAQPS for TV)	Y			Y	1
7789006	Potassium chromate (VI) (Component of CRC & SolCR6)	Y	Y		Y	0.01
7778509	Potassium dichromate (VI) (Component of CRC & SolCR6)	Y	Y		Y	0.01
1120714	Propane sultone, 1,3-		Y	Y		1
57578	Propiolactone, beta		Y	Y		0.01
123386	Propionaldehyde		Y	Y		10
114261	Propoxur (baygon)		Y	Y		100
78875	Propylene dichloride (1,2-dichloropropane)		Y	Y		10
75569	Propylene oxide		Y	Y		10
75558	Propylenimine, 1,2-		Y	Y		1
129000	Pyrene (Component of 83329/POMTV)		Y		Y	1
Q						
91225	Quinoline (Component of 83329/POMTV)		Y		Y	1
106514	Quinone		Y	Y		10
S						

SEC	Selenium Compounds		Y		Y	10
7775113	Sodium chromate (Component of CRC & SolCR6)	Y	Y		Y	0.01
10588019	Sodium dichromate (VI) (Component of CRC & SolCR6)	Y	Y		Y	0.01
7789062	Strontium chromate (VI) (Component of CRC & BioCR6)	Y	Y		Y	0.01
14682963	Strontium dichromate (VI) (Component of BioCR6 & CRC)	Y	Y		Y	0.01
100425	Styrene	Y	Y	Y		100
96093	Styrene oxide		Y	Y		10
7783600	Sulfur tetrafluoride	Y				10
7664939	Sulfuric acid	Y			Y	100
T						
79016	TCE (trichloroethylene)	Y	Y	Y		1000
76120	Tetrachloro-1,2-difluoroethane, 1,1,2,2- (CFC 112)	Y		Y		1000
76119	Tetrachloro-2,2-difluoroethane, 1,1,1,2- (CFC 112a)	Y				1000
1746016	Tetrachlorodibenzo-p-dioxin, 2,3,7,8- (Component of CLDC & 83329/POMTV)	Y	Y	Y	Y	0.00001
79345	Tetrachloroethane, 1,1,2,2-	Y	Y	Y		100
78002	Tetraethyl lead (Component of PBC)		Y	Y		0.1
7550450	Titanium tetrachloride		Y		Y	10
108883	Toluene	Y	Y	Y		100
95807	Toluene, 2,4-diamine		Y	Y		10
584849	Toluene, 2,4-diisocyanate	Y	Y	Y		1
91087	Toluene, 2,6-diisocyanate	Y		Y		1
95534	Toluidine, o-		Y	Y		10
8001352	Toxaphene		Y	Y	Y	10
120821	Trichlorobenzene, 1,2,4-		Y	Y		100
79005	Trichloroethane, 1,1,2-		Y	Y		100
95954	Trichlorophenol, 2,4,5-		Y	Y		10
88062	Trichlorophenol, 2,4,6-		Y	Y		1
121448	Triethylamine		Y	Y		100
1582098	Trifluralin		Y	Y		100
540841	Trimethylpentane, 2,2,4-			Y		100
V						
108054	Vinyl acetate		Y	Y		100
593602	Vinyl bromide		Y	Y		10
75014	Vinyl chloride	Y	Y	Y		0.1
75354	Vinylidene chloride	Y	Y	Y		0.1
X						
1330207	Xylene (mixed isomers)	Y	Y	Y		100
108383	Xylene, m-		Y	Y		100
95476	Xylene, o-		Y	Y		100
106423	Xylene, p-		Y	Y		100
Z						
13530659	Zinc chromate (VI) (Component of BioCR6 & CRC)	Y	Y		Y	0.01
14018952	Zinc dichromate (VI) (Component of BioCR6 & CRC)	Y	Y		Y	0.01

Groups of HAPs and TAPs in NC and Federal Regulations

(Components of groups appear on "Compilation of Hazardous and Toxic Air Pollutants for North Carolina Emission Inventory and Permitting Purposes)

\*de minimus values for emission inventory purposes primarily and do not negate a modeling analysis as may be required for permit purposes)

Pollutant Code or CAS	Description	TAP	HAP	VOC	PM	De minimus*
SBC	Antimony & Compounds (total mass, inc elemental SB)		Y		Y	10
7440360	Antimony Metal - (Component of SBC)		Y		Y	10
SBC-Other	Antimony Unlisted Compounds - Specify Compound (Component of SBC)		Y		Y	10
1327339	Antimony oxide (Component of SBC)		Y		Y	10
7783702	Antimony pentafluoride (Component of SBC)		Y		Y	10
10025919	Antimony trichloride (Component of SBC)		Y		Y	10
1309644	Antimony trioxide (Component of SBC)		Y		Y	1
1345046	Antimony trisulfide (Component of SBC)		Y		Y	10
ASC(7778394)	Arsenic & Compounds (total mass of elemental AS, arsine and all inorganic compounds)	Y	Y		Y	0.01
7784421	Arsenic Compounds - Arsine gas (Component of ASC)		Y		Y	0.01
7440382	Arsenic Metal, elemental, unreacted (Component of ASC)		Y		Y	0.01
ASC-Other	Arsenic Unlisted Compounds - Specify Compound (Component of ASC)		Y		Y	0.01
1327522	Arsenic acid (Component of ASC)		Y		Y	0.01
1303282	Arsenic pentoxide (Component of ASC)		Y		Y	0.01
1327533	Arsenic trioxide (Component of ASC)		Y		Y	0.01
7784409	Lead arsenate (Component of PBC & ASC)		Y		Y	0.01
BEC	Beryllium & compounds (Total mass)	Y	Y		Y	1
7440417	Beryllium Metal (unreacted) (Component of BEC)	Y	Y		Y	1
BEC-Other	Beryllium Unlisted Compounds - Specify Compound (Component of BEC)		Y		Y	1
7787475	Beryllium chloride (Component of BEC)	Y	Y		Y	1
7787497	Beryllium fluoride (Component of BEC & 16984488/Fluorides)	Y	Y		Y	1
13597994	Beryllium nitrate (Component of BEC)	Y	Y		Y	1
CDC	Cadmium & compounds (total mass includes elemental metal)		Y		Y	0.1
7440439	Cadmium Metal, elemental, unreacted (Component of CDC)	Y	Y		Y	0.1
CDC-Other	Cadmium Unlisted Compounds - Specify Compound (Component of CDC)		Y			0.1
543908	Cadmium acetate (Component of CDC)	Y	Y		Y	0.1
7789426	Cadmium bromide (Component of CDC)	Y	Y		Y	0.1
10108642	Cadmium chloride (Component of CDC)		Y		Y	0.01
7790809	Cadmium iodide (Component of CDC)		Y		Y	0.1
10325947	Cadmium nitrate (Component of CDC)		Y		Y	0.1
2223930	Cadmium octadecanoic acid (Component of CDC)		Y		Y	0.1
1306190	Cadmium oxide (Component of CDC)		Y		Y	0.01
10124364	Cadmium sulfate (Component of CDC)		Y		Y	0.01
1306236	Cadmium sulfide (Component of CDC)		Y		Y	0.01
BioCR6	Chromate (VI) Bioavailable Pigments as a Group (Component of BioCR6 & CRC)	Y	Y		Y	0.01
13765190	Calcium chromate (VI) (Component of BioCR6 & CRC)	Y	Y		Y	0.01
14307336	Calcium dichromate (VI) (Component of BioCR6 & CRC)	Y	Y		Y	0.01
7789062	Strontium chromate (VI) (Component of CRC & BioCR6)	Y	Y		Y	0.01
13530659	Zinc chromate (VI) (Component of BioCR6 & CRC)	Y	Y		Y	0.01
14018952	Zinc dichromate (VI) (Component of BioCR6 & CRC)	Y	Y		Y	0.01
NSCR6	Chromium (VI) Non-Specific Compounds, as Chrom(VI) (Component CRC)	Y	Y		Y	0.01
10294403	Barium chromate (Component of CRC & NSCR6)	Y	Y		Y	0.01

NSCR6-Other	Chromium (VI) Non-Specific Unlisted Compounds - Specify Compound (Component of NSCR6 & CRC)				0.01
12018018	Chromium dioxide (IV) (Component of CRC)	Y	Y	Y	0.01
1333820	Chromium trioxide (VI) (Component of NSCR6 & CRC)	Y	Y	Y	0.01
14977618	Chromyl chloride (VI) (Component of NSCR6 & CRC)	Y	Y	Y	0.01
7788967	Chromyl fluoride(VI) (Component of NSCR6 & CRC)	Y	Y	Y	0.01
7758976	Lead chromate (VI) (Component of PBC, NSCR6, & CRC)	Y	Y	Y	0.01
SolCR6	Chromium (VI) Soluble Chromate Compounds (Component of CRC)	Y	Y	Y	0.01
7788989	Ammonium chromate (VI) (Component of SolCR6 )	Y	Y	Y	0.01
7789095	Ammonium dichromate(VI)(Component of SolCR6 )	Y	Y	Y	0.01
7738945	Chromic acid (VI) (Component of SolCR6 & CRC)	Y	Y	Y	0.01
7789006	Potassium chromate (VI) (Component of CRC & SolCR6)	Y	Y	Y	0.01
7778509	Potassium dichromate (VI) (Component of CRC & SolCR6)	Y	Y	Y	0.01
7775113	Sodium chromate (Component of CRC & SolCR6)	Y	Y	Y	0.01
10588019	Sodium dichromate (VI) (Component of CRC & SolCR6)	Y	Y	Y	0.01
14682963	Strontium dichromate (VI) (Component of BioCR6 & CRC)	Y	Y	Y	0.01
CRC	Chromium - All/Total (includes Chromium (VI) categories, metal and others)		Y	Y	0.1
7788989	Ammonium chromate (VI) (Component of SolCR6 )	Y	Y	Y	0.01
7789095	Ammonium dichromate(VI)(Component of SolCR6 )	Y	Y	Y	0.01
10294403	Barium chromate (Component of CRC & NSCR6)	Y	Y	Y	0.01
13765190	Calcium chromate (VI) (Component of BioCR6 & CRC)	Y	Y	Y	0.01
14307336	Calcium dichromate (VI) (Component of BioCR6 & CRC)	Y	Y	Y	0.01
7738945	Chromic acid (VI) (Component of SolCR6 & CRC)	Y	Y	Y	0.01
10101538	Chromic sulfate (III) (Component of CRC)		Y	Y	0.1
13530682	Chromic sulfuric acid (Component of CRC)		Y	Y	0.1
NSCR6	Chromium (VI) Non-Specific Compounds, as Chrom(VI) (Component CRC)	Y	Y	Y	0.01
NSCR6-Other	Chromium (VI) Non-Specific Unlisted Compounds - Specify Compound (Component of NSCR6 & CRC)				0.01
SolCR6	Chromium (VI) Soluble Chromate Compounds (Component of CRC)	Y	Y	Y	0.01
CRC-Other	Chromium Unlisted Compounds - Specify Compound (Component of CRC)				0.1
10049055	Chromium chloride (II) (Component of CRC)		Y	Y	0.1
12018018	Chromium dioxide (IV) (Component of CRC)	Y	Y	Y	0.01
1308141	Chromium hydroxide (II) (Component of CRC)		Y	Y	0.1
1333820	Chromium trioxide (VI) (Component of NSCR6 & CRC)	Y	Y	Y	0.01
12018198	Chromium zinc oxide (Component of CRC)		Y	Y	0.1
14977618	Chromyl chloride (VI) (Component of NSCR6 & CRC)	Y	Y	Y	0.01
7788967	Chromyl fluoride(VI) (Component of NSCR6 & CRC)	Y	Y	Y	0.01
7758976	Lead chromate (VI) (Component of PBC, NSCR6, & CRC)	Y	Y	Y	0.01
7789006	Potassium chromate (VI) (Component of CRC & SolCR6)	Y	Y	Y	0.01
7778509	Potassium dichromate (VI) (Component of CRC & SolCR6)	Y	Y	Y	0.01
7775113	Sodium chromate (Component of CRC & SolCR6)	Y	Y	Y	0.01
10588019	Sodium dichromate (VI) (Component of CRC & SolCR6)	Y	Y	Y	0.01
7789062	Strontium chromate (VI) (Component of CRC & BioCR6)	Y	Y	Y	0.01
13530659	Zinc chromate (VI) (Component of BioCR6 & CRC)	Y	Y	Y	0.01
14018952	Zinc dichromate (VI) (Component of BioCR6 & CRC)	Y	Y	Y	0.01
COC	Cobalt & compounds		Y	Y	1
COC-Other	Cobalt Unlisted Compounds - Specify Compound (Component of COC)				1
1345160	Cobalt aluminate (Component of COC)		Y	Y	1
16842038	Cobalt carbonate (Component of COC)		Y	Y	1
CNC	Cyanide & compounds (see also hydrogen cyanide)		Y		10
156627	Calcium cyananide (Component of CNC)		Y	Y	100
CNC-Other	Cyanide Unlisted Compounds - Specify Compound (Component of CNC)				1

	140294	Cyanide, benzyl (Component of CNC)		Y			10
	74908	Hydrogen cyanide (as HCN) (Component of CNC)	Y	Y			10
GLYET		Glycol ethers (total all individual glycol ethers-See <a href="http://daq.state.nc.us/toxics/glycol/">http://daq.state.nc.us/toxics/glycol/</a> )		Y	Y		100
	112072	Butoxyethyl Acetate 2- (Component of GLYET)		Y	Y		100
	124174	Butyl Carbitol Acetate (Component of GLYET)		Y	Y		100
	111159	Cellosolve Acetate (ethylene glycol monoethyl ether acetate) (Component of GLYET)		Y	Y		100
	110805	Ethylene glycol monoethyl ether (Cellusolve) (Component of GLYET)	Y		Y		100
GLYET-Other		Glycol Ethers, Unlisted - Specify Compound (component of GLYET) (See <a href="http://daq.state.nc.us/toxics">http://daq.state.nc.us/toxics</a> )					100
PBC		Lead & compounds		Y		Y	1
PBC-Other		Lead Unlisted Compounds - Specify Compound (Component of PBC)					10
	7784409	Lead arsenate (Component of PBC & ASC)		Y		Y	0.01
	598630	Lead carbonate (Component of PBC)		Y		Y	10
	7758976	Lead chromate (VI) (Component of PBC, NSCR6, & CRC)	Y	Y		Y	0.01
	1309600	Lead dioxide (Component of PBC)		Y		Y	10
	10099748	Lead nitrate (Component of PBC)		Y		Y	10
	1317368	Lead oxide (Component of PBC)		Y		Y	10
	7446142	Lead sulfate (Component of PBC)		Y		Y	10
	78002	Tetraethyl lead (Component of PBC)		Y		Y	0.1
MNC		Manganese & compounds	Y	Y		Y	10
MNC-Other		Manganese Unlisted Compounds - Specify Compound (Component of MNC)	Y	Y		Y	10
	12079651	Manganese cyclopentadienyl tricarbonyl (Component of MNC)	Y	Y		Y	10
	10377669	Manganese nitrate (Component of MNC)	Y	Y		Y	100
	1317346	Manganese oxide (Component of MNC)	Y	Y		Y	100
	7785877	Manganese sulfate (Component of MNC)	Y	Y		Y	100
	8030704	Manganese tellurate (Component of MNC)	Y	Y		Y	100
	1317357	Manganese tetroxide (Component of MNC)	Y	Y		Y	100
HGC		Mercury & Compounds - all total mass includes Hg Vapor	Y	Y		Y	0.001
	7487947	Mercuric chloride (Component of HGC)	Y	Y		Y	0.001
MERCALKYL		Mercury - alkyl compounds, total mass (Component of HGC)	Y	Y		Y	0.001
HGC-Other		Mercury Unlisted Compounds - Specify Compound (Component of HGC)	Y				0.001
MERCARYL		Mercury, aryl and inorganic compounds (Component of HGC)	Y	Y		Y	0.001
	7439976	Mercury, vapor (Component of HGC)	Y	Y			0.001
NIC		Nickel & Compounds, sum total mass includes elemental		Y		Y	1
NIC-Other		Nickel Unlisted Compounds (Component of NIC - Specify)					1
	373024	Nickel acetate (Component of NIC)		Y		Y	1
	13462889	Nickel bromide (Component of NIC)		Y		Y	1
	12710360	Nickel carbide (Component of NIC)		Y		Y	1
	13463393	Nickel carbonyl (Component of NIC)	Y	Y		Y	1
	7718549	Nickel chloride (Component of NIC & NICKSOLCP)	Y	Y		Y	1
	7440020	Nickel metal (Component of NIC)	Y	Y		Y	1
	13138459	Nickel nitrate (Component of NIC & NICKSOLCP)	Y	Y		Y	1
	12035722	Nickel subsulfide (Component of NIC)	Y	Y		Y	1
	7786814	Nickel sulfate (Component of NIC & NICKSOLCP)	Y	Y		Y	1
NICKSOLCP		Nickel, soluble compounds as nickel (Component of NIC)	Y	Y		Y	1
56553/7PAH		Polycyclic Organic Matter (7 PAH Compounds for NIF)		Y		Y	1
	56553	Benz(a)anthracene (Component of 83329/POMTV & 56553/7PAH)		Y		Y	1
	50328	Benzo(a)pyrene (Component of 83329/POMTV & 56553/7PAH)	Y	Y	Y	Y	1
	205992	Benzo(b)fluoranthene (Component of 83329/POMTV & 56553/7PAH)		Y		Y	1
	207089	Benzo(k)fluoranthene (Component of 83329/POMTV & 56553/7PAH)		Y		Y	1
	218019	Chrysene (Component of 83329/POMTV & 56553/7PAH)		Y		Y	1
	53703	Dibenzo(a,h)anthracene (Component of 83329/POMTV & 56553/7PAH)		Y		Y	1
	193395	Indeno(1,2,3-cd)pyrene (Component of 83329/POMTV & 56553/7PAH)		Y		Y	1

83329/POMTV	Polycyclic Organic Matter (Specific Compounds from OAQPS for TV)	Y		Y	1
83329	Acenaphthene (Component of 83329/POMTV)	Y		Y	1
208968	Acenaphthylene (Component of 83329/POMTV)	Y		Y	1
53963	Acetylaminofluorene,2 (Component of 83329/POMTV)	Y	Y	Y	1
92671	Aminobiphenyl, 4- (Component of 83329/POMTV)	Y		Y	1
120127	Anthracene (Component of 83329/POMTV)	Y		Y	1
56553	Benz(a)anthracene (Component of 83329/POMTV & 56553/7PAH)	Y		Y	1
92875	Benzidine & salts (Component of 83329/POMTV)	Y	Y	Y	1
50328	Benzo(a)pyrene (Component of 83329/POMTV & 56553/7PAH)	Y	Y	Y	1
205992	Benzo(b)fluoranthene (Component of 83329/POMTV & 56553/7PAH)	Y		Y	1
191242	Benzo(g,h,i)perylene (Component of 83329/POMTV)	Y		Y	1
207089	Benzo(k)fluoranthene (Component of 83329/POMTV & 56553/7PAH)	Y		Y	1
92524	Biphenyl (Component of 83329/POMTV)	Y	Y	Y	10
63252	Carbaryl (Component of 83329/POMTV)	Y		Y	10
510156	Chlorobenzilate (Component of 83329/POMTV)	Y		Y	1
218019	Chrysene (Component of 83329/POMTV & 56553/7PAH)	Y		Y	1
3547044	DDE (p,p'-dichlorodiphenyl ethane) (Component of 83329/POMTV)	Y		Y	1
53703	Dibenzo(a,h)anthracene (Component of 83329/POMTV & 56553/7PAH)	Y		Y	1
91941	Dichlorobenzidine, 3,3'- (Component of 83329/POMTV)	Y	Y		1
119904	Dimethoxybenzidine, 3,3- (Component of 83329/POMTV)	Y	Y		1
119937	Dimethylbenzidine, 3,3'- (Component of 83329/POMTV)	Y	Y	Y	1
206440	Fluoranthene (Component of 83329/POMTV)	Y		Y	1
86737	Fluorene (Component of 83329/POMTV)	Y		Y	1
132649	Furans - Dibenzofurans (group total - CAA - unchlorinated) (Component	Y	Y	Y	0.001
193395	Indeno(1,2,3-cd)pyrene (Component of 83329/POMTV & 56553/7PAH)	Y		Y	1
101144	Methylene bis(2-chloroaniline), 4,4- (Component of 83329/POMTV)	Y	Y		1
101688	Methylene diphenyl diisocyanate (MDI) (Component of 83329/POMTV)	Y	Y		10
91203	Naphthalene (Component of 83329/POMTV)	Y	Y	Y	1
92933	Nitrobiphenyl, 4- (Component of 83329/POMTV)	Y	Y	Y	1
85018	Phenanthrene (Component of 83329/POMTV)	Y		Y	1
129000	Pyrene (Component of 83329/POMTV)	Y		Y	1
91225	Quinoline (Component of 83329/POMTV)	Y		Y	1
1746016	Tetrachlorodibenzo-p-dioxin, 2,3,7,8- (Component of CLDC & 83329/POMTV)	Y	Y	Y	0.00001
TS	Total Reduced Sulfur (TRS)				
624920	Dimethyl disulfide			Y	10
75183	Dimethyl sulfide			Y	1
7783064	Hydrogen sulfide	Y			1
74931	Methyl mercaptan	Y		Y	1

List of Greenhouse Gas Pollutants Required in NC Emissions Inventory:

Pollutant Code (CAS)	Pollutant	De Minimus (Tons)
124389	Carbon Dioxide (CO <sub>2</sub> )	5,000
74828	Methane (CH <sub>4</sub> )	10
10024972	Nitrous Oxide (N <sub>2</sub> O)	1
2551624	Sulfur Hexafluoride (SF <sub>6</sub> )	0.05
HFCs - Hydrofluorocarbons		
354336	HFC-125 (pentafluoroethane)	0.05
359353	HFC-134 (1,1,2,2-tetrafluoroethane)	0.05
811972	HFC-134a (1,1,1,2-Tetrafluoroethane)	0.05
430660	HFC-143 (1,1,2-trifluoroethane)	0.05
420462	HFC-143a (1,1,1-trifluoroethane)	0.05
624726	HFC-152 (1,2-difluoroethane)	0.05
75376	HFC-152a (1,1-Difluoroethane)	0.05
353366	HFC-161 (fluoroethane)	0.05
431890	HFC-227ea (1,1,1,2,3,3,3-heptafluoropropane)	0.05
75467	HFC-23 (Trifluoromethane)	0.05
60598110	HFC-236cb (1,1,1,2,2,3-hexafluoropropane)	0.05
431630	HFC-236ea (1,1,1,2,3,3-hexafluoropropane)	0.05
690391	HFC-236fa (1,1,1,3,3,3-hexafluoropropane)	0.05
679867	HFC-245ca(1,1,2,2,3-pentafluoropropane)	0.05
460731	HFC-245fa (1,1,3,3-pentafluoropropane)	0.05
75105	HFC-32 (difluoromethane)	0.05
408586	HFC-365mfc (1,1,1,3,3-pentafluorobutane)	0.05
593533	HFC-41 (fluoromethane)	0.05
138495428	HFC-43-10mee(1,1,1,2,3,4,4,5,5,5-decafluoropentane)	0.05
PFCs - Perfluorocarbons		
355259	Perfluorobutane (decafluorobutane)	0.05
115253	Perfluorocyclobutane (octafluorocyclobutane)	0.05
76164	Perfluoroethane (hexafluoroethane)	0.05
355420	Perfluorohexane (tetradecafluorohexane)	0.05
75730	Perfluoromethane (tetrafluoromethane)	0.05
678262	Perfluoropentane (dodecafluoropentane)	0.05
76197	Perfluoropropane (octafluoropropane)	0.05

List of Non-HAP, Non-TAP, Non Criteria, Non GHG Pollutants Required in NC Emission Inventory:

Pollutant Code (CAS)	Pollutant	De Minimus (Tons)
540885	Tert-Butyl Acetate	1