

The Department of Statistics, in accordance with the decision of the court (No. ot), sent the Reports on Air Protection (Form 2TP-Air) for 2001-2006. The following table was prepared based on these reports (see the reports in the attachment):

Emission of Pollutants by KPO into the Atmosphere from 2001-2006
(An explanation of the acronyms and highlighting follows the table.)

Substance Code	Pollution	Emitted without Purification tons/year					
		2001	2002	2003	2004	2005	2006
	Total	13 526,293	26511,953	19293,513	56549,297	45494,258	17215,713
0330	Sulfur Dioxide (SO ₂)	6256,284	11608,109 (MPE 11052,07, Exceedence: 556,039)	12044,195	42847,346 (MPE 7163,6132, Exceedence: 35683,7328)	31514,271 (MPE 2183,5748, Exceedence: 29030,6962)	9556,276 (MPE 6390,248, Exceedence: 3166,028)
0333	Hydrogen sulfide (H ₂ S)	5,871 (MPE 5,451, Exceedence: 0,42)	10,118 (MPE 5,451, Exceedence: 4,667)	33,124	72,551	61,944 (MPE 16,3689, Exceedence: 45,5751)	62,685
0337	Carbon monoxide (CO)	5432,247	11336,693 (MPE 7033,466, Exceedence: 4306,227)	4563,635 (MPE 4075,914, Exceedence: 487,721)	9403,305 (MPE 9205,8161, Exceedence: 197, 4889)	9440,419 (MPE 4094,344, Exceedence: 2346,075)	4048,590
0301	Nitrogen oxide (NO)	389,298	799,837	1378,441 (MPE 1342,354, Exceedence: 36,87)	2113,566	2272,943 (MPE 1210,2586, Exceedence: 1062,6844)	1688,291
0303	Ammonia	-	-	-	-	-	-
0401	Hydrocarbons	-	-	-	-	5,6732 (no MPE)	67,057
0006	Volatile matter	264,650	367,565	1080,154	1073,076	1075,421	895,811

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		2001	2002	2003	2004	2005	2006
						(no MPE)	(no MPE)
0005	Others	3,592	9,651	0,033	533,762	722,098	704,232
	Specific pollutants						
0183	Mercury	-	-		-		
0130	Cadmium	-	-				
0703	Benzpirene	0,000047	0,00107	0,0002	0,00017	0,00023 (MPE 0,00017, Exceedence: 0,00006)	0,00008
0322	Sulfuric Acid(H ₂ SO ₄)	-	-	-			0,382
1716	Mercaptans	0,142	0,112	0,445	0,997	0,997 (MPE 0,3992, Exceedence: 0,5978)	1,720 (MPE 11,773)
1052	Methanol	2,986	8,529	37,461	32,041	32,041 (MPE 13,3624, Exceedence: 18,6786)	32,073
1325	Formaldehyde	0,424	0,9687	1,819	1,539	2,129 (MPE 1,5686, Exceedence: 0,5604)	0,713
2735	Mineral Oils	0,04	0,0396	0,0176	0,114	0,116 (MPE 0,0616, Exceedence: 0,0544)	29,863 (MPE 29,863)
328	Soot	1173,821	2378,471	190,578	502,778	398,479 (MPE 60,6031, Exceedence: 337,8759)	148,381 (MPE 105,359, Exceedence:

Substance Code	Pollution	Emitted without Purification tons/year					
		2001	2002	2003	2004	2005	2006
							43,022)
143	Manganese Dioxide	0,004	0,0043		0,0049	0,0065 (MPE 0,0027, Exceedence: 0,0038)	
2902	Welding Aerosol,Suspended Solids	0,029	0,0288	1,3565	0,684	0,696 (MPE 0,2907, Exceedence: 0,4053)	0,124 (MPE 60,436)
2930	Abrasive Dust	0,498	0,498	1,002	0,878	0,959 (MPE 0,3995, Exceedence: 0,5595)	0,932
140	Copper Sulfate			0,005	-	-	
143	Manganese and its compounds			0,0061	0,0049	-	0,011
344	Poorly Soluble Flourides			0,0005	0,001	0,001 (MPE 0,00088, Exceedence: 0,00012)	0,001
2908	Nonorganic Dust			0,979	0,978	0,978 (MPE 0,4076, Exceedence: 0,5704)	11,099 (MPE 11,099)
123	Iron Oxide			0,0035	0,0073	0,0073 (MPE 0,003, Exceedence: 0,0043)	0,532
184	Lead compounds			-	-		
410	Methane			310,364	533,633	721,956 (MPE 417,732, Exceedence: 304,224)	662,153 (MPE 608,731, Exceedence:

Substance Code	Pollution	Emitted without Purification tons/year					
		2001	2002	2003	2004	2005	2006
							53,432
616	Xylene			1,7385	1,973	1,996	0,030
626	Trimenthylbenzene			0,0000394	0,000011	0,000011 (MPE 0,0000045 Exceedence: 0,0000065)	0,00001
1023	Diethylene Glycol			19,5368	26,745	26,745 (MPE 11,1438, Exceedence: 15,6012)	20,057
2704	Petroleum Benzene			45,031	25,581	28,655 (MPE 22,6782, Exceedence: 5,9768)	80,478 (MPE 80,478)
2732	Kerosene			43,680	36,969	51,123 (MPE 38,8914, Exceedence: 12,2316)	0,168
2754	Saturated Hydrocarbons			609,236 (MPE 608,590, Exceedence: 0,646)	939,494	926,953 (MPE 363,1912, Exceedence: 543,7618)	752,785
324	Gaseous Flourides			0,0004	0,0008	0,0008 (MPE 0,00063, Exceedence: 0,00017)	0,0008
2754	Hydrogen Chloride				0,0147	0,0147	0,095
324	Acrolein				0,004	0,002	0,006
344	White Corundum				0,359	0,359 (MPE 0,1495, Exceedence: 0,2095)	
1048	Isobutyl Alcohol				4,732	4,732	2,441

Substance Code	Pollution	Emitted without Purification tons/year					
		2001	2002	2003	2004	2005	2006
						(MPE 1,9717, Exceedence: 2,7603)	
621	Toluene					0,466 (no MPE)	0,103
1715	Methyl Mercaptan				0,00043	0,00043 (MPE 0,00018, Exceedence: 0,00025)	0,0004
	Tetrachloride Silicon					0,0011 (MPE 0,00088, Exceedence: 0,00012)	0,001
	Compound of hydrocarbons C11-C14					5,6732 (no MPE)	0,021
108	Barium Sulfate						0,0003
121	Iron Sulfate						0,001
150	Sodium Hydroxide						6,139
152	Sodium Chloride						-
164	Nickel Oxide						0,000005
172	Aluminum						-
184	Lead						0,0000001
203	Chromium						0,0000002
302	Nitrogen Acid						0,00002
372	Ammonia						0,234
501	Pentylenes						0,059
602	Benzene						0,128
	Ethyl Benzene						0,001
1740	Sulfolane						5,109

Substance Code	Pollution	Emitted without Purification tons/year					
		2001	2002	2003	2004	2005	2006
1831	Retardant						32,228
2041	Acrylamide						0,235
3401	Methyldietanolamine						4,815
	Emission sources	1484	1514	786	612	690	392
	MPE Tons/Year	27 165,31	21 475,063	20277,141	21190,555	8458,674	15330,299
	Emitted Tons/Year	13 526,293	26 510,0232	19293,513	56549,297	45494,258	17215,713
	Exceedence (times)	-	1,2	-	2,7	5,4	1,1

Comments:

Maximum Permissible Emissions (MPE) – This is the standard for emissions of toxic (polluting) elements into the air, which is determined for a stationary source of pollution into the air, taking into consideration the technical norms for emissions and baseline air pollution, on condition that the given source does not exceed hygienic and environmental norms for air quality, the maximum permissible (critical) load on the environmental system, and other environmental standards (taking into consideration accordance with the Instructions for Agreement and Confirmation of the Project Standards for Maximum Permissible Emissions (MPE) and Maximum Permissible Dumping (MPD), confirmed by Order No. 83-N of the Ministry of Natural Resources and Environmental Protection of the Republic of Kazakhstan from March 21, 2002).

The fundamental principle in calculating the MPE is that according to the determined, permitted volume of emissions, the concentration of toxic elements in the air on the border of the SPZ (Sanitary Protection Zone) may not exceed the MPC (Maximum Permissible Concentration) for the population points.

The yellow highlighting denotes emissions that exceed the allowable limit (MPE). In accordance with the Instructions, the establishment pays a fine for the exceedences in a ten-fold amount. For polluting the environment above the agreed upon limits and also for one time pollution of the environment, payment for emissions into the environment is computed in accordance with the Republic of Kazakhstan's Code "On Taxes and Other Required Payments into the Budget." (Method of Calculating Payments for Emissions into the Environment, Confirmed by Order No. 124-P of the Ministry of Environmental Protection of the Republic of Kazakhstan from April 27, 2007).

The green highlighting denotes emissions that did not exceed the permissible limit, but for which the MPE is considerably higher than in the previous year! For example: Mercaptans were emitted in the amount of 1.720 tons in 2006, which did not exceed the MPE (11.773), however the MPE for 2006 (11.773) was 29.5 times greater than the MPE for 2005 (0.3992)!

The grey highlighting denotes emissions that were not allowed at all (no MPE exists)! This is a violation of the nature protection legislation of the Republic of Kazakhstan.