



2002 CONTAMINANT SUMMARY REPORT

Thursday, September 30, 2004

Account: MM0001T
Company: ALCOA INC

Last EI Date: 12/31/2002
Site Name: ALCOA SANDOW PLANT

CRITERIA EMISSIONS TOTAL

Pollutant Class	Annual(TPY)	Ozone(PPD)	SMSS(TPY)	Emiss Event(TPY)	EE/SMSS (TPY)
PM10	660.3869	3,630.6203	0.0000	0.0000	0.0000
PB	0.6300	3.8600	0.0000	0.0000	0.0000
SO2	51,225.8108	280,422.5487	0.0000	0.0000	0.0000
NOX	8,454.3417	46,332.3559	0.0000	0.0000	0.2200
CO	29,322.6939	161,303.2453	0.0000	0.0000	0.0000
VOC	779.0777	4,200.6679	0.0000	0.0000	0.0000
PM2.5	8.4060	46.0845	0.0000	0.0000	0.0000

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Contam	Contam Name	Annual(TPY)	Ozone(PPD)	SMSS(TPY)	Emiss Event(TPY)	EE/SMSS(TPY)
10000	PART-U	2,346.6484	12,877.1159	0.0000	0.0000	14.7400
11230	FLUORIDES (EXCEPT HF)	184.8346	1,018.9064	0.0000	0.0000	0.0000
14000	PART-MINERAL-U	0.0100	0.0700	0.0000	0.0000	0.0000
14010	ALUMINUM - AL	81.3330	445.8880	0.0000	0.0000	0.0000
14016	ALUMINM OXIDE- AL2O3	63.1802	345.8530	0.0000	0.0000	0.0000
14050	BARIUM - BA	9.0000	48.4000	0.0000	0.0000	0.0000
14070	BERYLLIUM-BE	0.0840	0.4500	0.0000	0.0000	0.0000
14122	CALCIUM ALUMNAT SILICAT	0.0000	0.0000	0.0000	0.0000	0.0000
14123	CALCIUM CARBONATE-CACO3	0.0000	0.0000	0.0000	0.0000	0.0000
14145	LIGNITE DUST	237.2303	1,285.4523	0.0000	0.0000	0.0000
14146	COKE	29.2082	211.1677	0.0000	0.0000	0.0000
14160	CHROMIUM-CR	1.1500	6.2800	0.0000	0.0000	0.0000



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14190	COPPER-CU	0.0020	0.0200	0.0000	0.0000	0.0000
14193	COPPER (FUME)	1.7840	9.8240	0.0000	0.0000	0.0000
14222	CRYOLITE	0.0668	0.3651	0.0000	0.0000	0.0000
14310	LEAD-PB	0.6300	3.8600	0.0000	0.0000	0.0000
14335	MAGNESIUM-MG	1.3500	7.5000	0.0000	0.0000	0.0000
14350	MANGANESE-MN	7.2000	39.0000	0.0000	0.0000	0.0000
14370	MICA	0.0000	0.0000	0.0000	0.0000	0.0000
14390	NICKEL-NI	0.3400	2.3700	0.0000	0.0000	0.0000
14590	SELENIUM-SE	5.1000	27.3000	0.0000	0.0000	0.0000
14601	SILICA OXIDE	0.0000	0.0000	0.0000	0.0000	0.0000
14602	SILICA,CRYSTALLINE	0.0000	0.0000	0.0000	0.0000	0.0000
14622	SODIUM CARBONATE-NA2C03	0.0383	0.2096	0.0000	0.0000	0.0000
14735	TITANIUM DIOXIDE	0.0000	0.0000	0.0000	0.0000	0.0000
20000	PM10 PART-U	635.2915	3,485.5662	0.0000	0.0000	0.0000
21230	PM10 FLUORIDES (EXCEPT HF)	0.1927	1.1455	0.0000	0.0000	0.0000
24010	PM10 ALUMINUM - AL	3.9580	21.9180	0.0000	0.0000	0.0000
24016	PM10 ALUMINM OXIDE- AL203	6.3775	34.9250	0.0000	0.0000	0.0000
24145	PM10 LIGNITE DUST	4.2804	23.3800	0.0000	0.0000	0.0000
24146	PM10 COKE	10.2764	63.6281	0.0000	0.0000	0.0000
24222	PM10 CRYOLITE	0.0066	0.0366	0.0000	0.0000	0.0000
24602	PM10 SILICA,CRYSTALLINE	0.0000	0.0000	0.0000	0.0000	0.0000
24622	PM10 SODIUM CARBONATE-NA2C03	0.0038	0.0209	0.0000	0.0000	0.0000
39999	TOTAL PM2.5 PARTICULATE	8.4060	46.0845	0.0000	0.0000	0.0000
50001	VOC-UNCLASSIFIED	482.3857	2,591.8235	0.0000	0.0000	0.0000
50002	POLYCYCLIC ORGANIC MATTER	2.4000	14.0000	0.0000	0.0000	0.0000
51121	ACETATE-U	0.0000	0.0000	0.0000	0.0000	0.0000
51405	BENZYL ALCOHOL	0.0000	0.0000	0.0000	0.0000	0.0000
51430	2- BUTOXYETHANOL	0.0000	0.0000	0.0000	0.0000	0.0000
51455	PROPROXYETHANOL (2)	0.0000	0.0000	0.0000	0.0000	0.0000
51471	ETHYLENE GLYCOL	0.0000	0.0000	0.0000	0.0000	0.0000
51510	ISOPROPANOL	0.3000	1.6000	0.0000	0.0000	0.0000
51533	METHYL ISOAMYL ALCOHOL	0.0000	0.0000	0.0000	0.0000	0.0000



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51570	N-PROPANOL	0.0000	0.0000	0.0000	0.0000	0.0000
52210	ALKYL AMINE-U	0.0000	0.0000	0.0000	0.0000	0.0000
52420	BENZENE	1.1564	6.3360	0.0000	0.0000	0.0000
52450	ETHYL BENZENE	0.2628	1.4400	0.0000	0.0000	0.0000
52460	NAPHTHALENE	4.1524	22.7520	0.0000	0.0000	0.0000
52480	STYRENE	0.3680	2.0160	0.0000	0.0000	0.0000
52490	TOLUENE	1.3216	7.2120	0.0000	0.0000	0.0000
52510	XYLENE-U	0.8936	4.8960	0.0000	0.0000	0.0000
52512	META-XYLENE	0.0000	0.0000	0.0000	0.0000	0.0000
52640	BUTYL ACETATE	0.0000	0.0000	0.0000	0.0000	0.0000
52830	GLYCOL ETHERS (CELLOSOLVES)	0.0000	0.0000	0.0000	0.0000	0.0000
52848	CELLOSOLVE SOLVENT	0.0000	0.0000	0.0000	0.0000	0.0000
53250	METHYLENE CHLORIDE	0.0000	0.0000	0.0000	0.0000	0.0000
54020	ACETONE	0.3265	1.7889	0.0000	0.0000	0.0000
54065	METHYL ETHYL KETONE	0.0000	0.0000	0.0000	0.0000	0.0000
56600	HEXANE	0.0000	0.0000	0.0000	0.0000	0.0000
56775	PROPANE	0.0000	0.0000	0.0000	0.0000	0.0000
58320	BENZO-A-PYRENE	0.0524	0.2880	0.0000	0.0000	0.0000
58650	CARBON DISULFIDE	0.2104	1.1520	0.0000	0.0000	0.0000
58775	CARBONYL SULFIDE	281.2814	1,528.9154	0.0000	0.0000	0.0000
59000	VOC GAS MIXTURE-U	0.0000	0.0000	0.0000	0.0000	0.0000
59003	GASOLINE	3.3000	12.7000	0.0000	0.0000	0.0000
59005	KEROSENE	0.0000	0.0000	0.0000	0.0000	0.0000
59150	DIESEL	0.9930	5.5370	0.0000	0.0000	0.0000
59300	NAPHTHA	0.0000	0.0000	0.0000	0.0000	0.0000
59700	COAL-ORGANICS-U	0.0000	0.0000	0.0000	0.0000	0.0000
70110	CHLORINE	1.4000	7.5699	0.0000	0.0000	0.0000
70200	HYDROGEN CHLORIDE	61.9500	355.3836	0.0000	0.0000	0.0000
70250	HYDROGEN FLUORIDE	160.0000	888.8600	0.0000	0.0000	7.3580
70400	NITROGEN OXIDES	8,454.3417	46,332.3559	0.0000	0.0000	0.2200
70510	SULFUR DIOXIDE	51,225.8108	280,422.5487	0.0000	0.0000	0.0000



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70516	SULFURIC ACID (VAPOR)	29.2000	159.4000	0.0000	0.0000	0.0000
90300	CARBON MONOXIDE	29,322.6939	161,303.2453	0.0000	0.0000	0.0000

HAPS SUMMARY REPORT

Contam	Contam Name	Annual(TPY)	Ozone(PPD)	SMSS(TPY)	Emiss Event(TPY)	EE/SMSS(TPY)
14070	BERYLLIUM-BE	0.0840	0.4500	0.0000	0.0000	0.0000
14160	CHROMIUM-CR	1.1500	6.2800	0.0000	0.0000	0.0000
14310	LEAD-PB	0.6300	3.8600	0.0000	0.0000	0.0000
14350	MANGANESE-MN	7.2000	39.0000	0.0000	0.0000	0.0000
14390	NICKEL-NI	0.3400	2.3700	0.0000	0.0000	0.0000
14590	SELENIUM-SE	5.1000	27.3000	0.0000	0.0000	0.0000
50002	POLYCYCLIC ORGANIC MATTER	2.4000	14.0000	0.0000	0.0000	0.0000
51430	2- BUTOXYETHANOL	0.0000	0.0000	0.0000	0.0000	0.0000
51455	PROPROXYETHANOL (2)	0.0000	0.0000	0.0000	0.0000	0.0000
51471	ETHYLENE GLYCOL	0.0000	0.0000	0.0000	0.0000	0.0000
52420	BENZENE	1.1564	6.3360	0.0000	0.0000	0.0000
52450	ETHYL BENZENE	0.2628	1.4400	0.0000	0.0000	0.0000
52460	NAPHTHALENE	4.1524	22.7520	0.0000	0.0000	0.0000
52480	STYRENE	0.3680	2.0160	0.0000	0.0000	0.0000
52490	TOLUENE	1.3216	7.2120	0.0000	0.0000	0.0000
52510	XYLENE-U	0.8936	4.8960	0.0000	0.0000	0.0000
52512	META-XYLENE	0.0000	0.0000	0.0000	0.0000	0.0000
52830	GLYCOL ETHERS (CELLOSOLVES)	0.0000	0.0000	0.0000	0.0000	0.0000
52848	CELLOSOLVE SOLVENT	0.0000	0.0000	0.0000	0.0000	0.0000
53250	METHYLENE CHLORIDE	0.0000	0.0000	0.0000	0.0000	0.0000
54065	METHYL ETHYL KETONE	0.0000	0.0000	0.0000	0.0000	0.0000
56600	HEXANE	0.0000	0.0000	0.0000	0.0000	0.0000
58650	CARBON DISULFIDE	0.2104	1.1520	0.0000	0.0000	0.0000



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58775	CARBONYL SULFIDE	281.2814	1528.9154	0.0000	0.0000	0.0000
70110	CHLORINE	1.4000	7.5699	0.0000	0.0000	0.0000
70200	HYDROGEN CHLORIDE	61.9500	355.3836	0.0000	0.0000	0.0000
70250	HYDROGEN FLUORIDE	160.0000	888.8600	0.0000	0.0000	7.3580
	TOTAL	529.9006	2919.7929	0.0000	0.0000	7.3580