

Emissions by source

SOURCE	Arsenic & compounds	Beryllium & compounds	Boron & compounds	Cadmium and compounds	Carbon monoxide	Chromium (III) compounds	Chromium (VI) compounds	Cobalt & compounds	Copper & compounds	Cumene (1-methylethylbenzene)	Fluoride compounds	Hydrochloric acid	Lead & compounds	Magnesium oxide fume	Manganese & compounds	Mercury & compounds	Nickel & compounds	Nickel carbonyl	Nickel subsulfide	Oxides of nitrogen (NOx)	Particulate matter (<10um)_	Polychlorinated dioxins and furans	Polycyclic aromatic hydrocarbons	Selenium & compounds	Sulfur dioxide	Total volatile organic compounds	Zinc & compounds	
Blasting	1.10	1.10	22.00	0.03		12.10		0.11	6.05		242.02		6.27		682.05	0.18	7.70				572,040			0.03				22.00
Conveyor from primary crusher	0.03	0.03	0.68	0.00		0.38		0.00	0.19		7.53		0.19		21.21	0.01	0.24				17,104			0.00				0.68
Conveyors from tertiary crusher	0.00	0.00	0.08	0.00		0.04		0.00	0.02		0.84		0.02		2.36	0.00	0.03				1,902			0.00				0.08
Diesel articulated HGV	0.26	0.01	0.86	0.02	70	3.02	0.0	0.34	1.29		8.62		1.51		43.12	0.00	2.16			360	11,020			0.30	10.76	44.44	3.88	
Diesel dump trucks - Lucas	0.05	0.00	0.16	0.00	114	0.56	0.0	0.06	0.24		1.60		0.28		7.98	0.00	0.40			267	2,238			0.06	29.09	12.29	0.72	
Diesel dump trucks - other	0.16	0.01	0.53	0.01	110	1.87	0.0	0.21	0.80		5.34		0.93		26.70	0.00	1.33			256	6,830			0.19	27.88	11.78	2.40	
Diesel dump trucks - Penrice Komatsu	1.68	0.08	5.60	0.10	4,094	19.61	0.0	2.24	8.41		56.04		9.81		280.20	0.02	14.01			9,553	80,929			1.96	1,041.63	440.05	25.22	
Diesel dump trucks - York	0.52	0.03	1.72	0.03	2,190	6.02	0.0	0.69	2.58		17.21		3.01		86.03	0.01	4.30			5,109	24,284			0.60	557.07	235.34	7.74	
Diesel graders - all	0.01	0.00	0.04	0.00	60	0.15	0.0	0.02	0.06		0.43		0.08		2.17	0.00	0.11			279	1,326			0.02	34.29	14.06	0.19	
Diesel water & fuel carts	1.47	0.07	4.89	0.09	3,599	17.12	0.0	1.96	7.34		48.93		8.56		244.63	0.01	12.23			8,398	59,847			1.71	915.71	386.85	22.02	
Diesel wheeled loader - Lucas	0.10	0.00	0.32	0.01	44	1.12	0.0	0.13	0.48		3.19		0.56		15.96	0.00	0.80			144	4,529			0.11	13.96	19.29	1.44	
Diesel wheeled loader - Penrice Komatsu	1.51	0.08	5.03	0.09	3,346	17.62	0.0	2.01	7.55		50.34		8.81		251.71	0.02	12.59			10,918	66,423			1.76	1,060.58	1,466.10	22.65	
Diesel wheeled loader - York	0.07	0.00	0.22	0.00	234	0.78	0.0	0.09	0.33		2.23		0.39		11.15	0.00	0.56			762	3,120			0.08	74.03	102.33	1.00	
Explosives - Anfo					15,311															4,687								
Hopper feed	0.02	0.02	0.31	0.00		0.17		0.00	0.09		3.44		0.09		9.69	0.00	0.11				7,817			0.00				0.31
In quarry loading - overburden	0.52	0.03	1.74	0.03		6.09	0.0	0.70	2.61		17.41		3.05		87.04	0.01	4.35				82,692			0.61				7.83
In-quarry loading - limestone	0.03	0.03	0.68	0.00		0.38		0.00	0.19		7.53		0.19		21.21	0.01	0.24				32,498			0.00				0.68
LGV by Distance Travelled	0.44	0.02	1.47	0.03	118	5.16	0.0	0.59	2.21		14.74		2.58		73.68	0.00	3.68			96	14,401			0.52	10.14	31.49	6.63	
Miscellaneous vehicle - bobcat	0.03	0.00	0.09	0.00	15	0.33	0.0	0.04	0.14		0.94		0.16		4.70	0.00	0.24			37	974			0.03	3.09	3.34	0.42	
Miscellaneous vehicle - diesel forklift	0.00	0.00	0.01	0.00	4	0.05	0.0	0.01	0.02		0.14		0.02		0.70	0.00	0.03			10	139			0.00	0.86	0.93	0.06	
Miscellaneous vehicle - other misc.	0.01	0.00	0.03	0.00	11	0.10	0.0	0.01	0.04		0.28		0.05		1.39	0.00	0.07			25	277			0.01	2.14	2.32	0.12	
Open pit	0.43	0.43	8.55	0.01		4.70		0.04	2.35		94.08		2.44		265.14	0.07	2.99				213,824			0.01				8.55
Primary Crushing	0.11	0.11	2.28	0.00		1.25		0.01	0.63		25.09		0.65		70.70	0.02	0.80				11,403			0.00				2.28
Primary stockpile	0.01	0.01	0.26	0.00		0.14		0.00	0.07		2.86		0.07		8.06	0.00	0.09				6,502			0.00				0.26
Reclaim conveyor from gravel stockpile	0.03	0.03	0.61	0.00		0.34		0.00	0.17		6.75		0.17		19.01	0.00	0.21				15,333			0.00				0.61
Reclaim conveyor from Osborne stockpile	0.02	0.02	0.30	0.00		0.17		0.00	0.08		3.31		0.09		9.32	0.00	0.11				7,517			0.00				0.30
Reclaim from stockpile for conveyor	0.03	0.03	0.68	0.00		0.38		0.00	0.19		7.53		0.19		21.21	0.01	0.24				17,104			0.00				0.68
Secondary Crushing - aggregate plant	0.31	0.31	6.11	0.01		3.36		0.03	1.68		67.23		1.74		189.45	0.05	2.14							0.01				6.11
Stat'y engine (< 450kw) - drill rigs					4,772															22,180	1,560		0.84		1,459.28	1,621.42		
Stat'y engine (< 450kw) - SEM rock breaker					892															4,143	291		0.16		272.60	302.89		
Tertiary Crushing	0.09	0.09	1.78	0.00		0.98		0.01	0.49		19.53		0.51		55.04	0.01	0.62				5,073			0.00				1.78
Train loading	0.01	0.01	0.18	0.00		0.10		0.00	0.05		1.98		0.05		5.59	0.00	0.06				4,510			0.00				0.18
Transfer to gravel stockpile	0.02	0.02	0.46	0.00		0.25		0.00	0.13		5.06		0.13		14.26	0.00	0.16				11,500			0.00				0.46
Transfer to Osborne stockpile	0.01	0.01	0.23	0.00		0.12		0.00	0.06		2.48		0.06		6.99	0.00	0.08				5,638			0.00				0.23
Trucks dump to primary crusher	0.03	0.03	0.68	0.00		0.38		0.00	0.19		7.53		0.19		21.21	0.01	0.24				17,104			0.00				0.68
Waste dumps	0.87	0.04	2.90	0.05		10.15	0.0	1.16	4.35		29.01		5.08		145.05	0.01	7.25				72,525			1.02				13.05
total	9.99	2.68	71.53	0.51	34,984	114.99	0.0	10.49	51.09	0	761.20	0	57.95	0	2,704.71	0.44	80.17	0	0	67,223	1,380,273	0	1.00	9.04	5,513.09	4,694.91	161.29	

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