

ROYAL OAK MINES INC.  
NWT DIVISION - GIANT MINE

ANNUAL AIR SAMPLING REPORT: 1995

STATION		JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	AVERAGE
Roaster Filter Floor	Total Resp													
	Dust - mg/m <sup>3</sup>			0.5	0.32		0.54			0.60			0.48	0.49
	As - ug/m <sup>3</sup>			19.0	18.47		18.36			19.80			21.00	19.41
Roaster Control Room	Total Resp													
	Dust - mg/m <sup>3</sup>			0.19	0.16		0.12			0.14			0.18	0.15
	As - ug/m <sup>3</sup>			7.65	7.30		6.00			9.50			9.20	8.00
Roaster Top Floor	Total Resp													
	Dust - mg/m <sup>3</sup>			0.48	0.29		0.36			0.31			0.48	0.36
	As - ug/m <sup>3</sup>			21.0	20.90		28.00			26.20			27.50	28.15
Cottrell Top Floor	Total Resp													
	Dust - mg/m <sup>3</sup>	0.39	0.25	0.58	0.53	0.42	0.62			0.44			0.46	0.48
	As - ug/m <sup>3</sup>	16.2	17.25	23.5	27.16	21.0	23.1	28.11		24.50			22.10	25.47
Cottrell Bottom Floor	Total Resp													
	Dust - mg/m <sup>3</sup>	0.42	0.31	0.47	0.56	0.66	0.58	0.40		0.52			0.36	0.46
	As - ug/m <sup>3</sup>	19.26	18.0	22.1	28.80	23.65	22.9	18.35		20.00			19.26	21.60
Cottrell Control Room	Total Resp													
	Dust - mg/m <sup>3</sup>			0.21			0.14			0.10			0.12	0.14
	As - ug/m <sup>3</sup>			5.56			6.18			5.80			5.35	5.72
Baghouse Bottom Floor	Total Resp													
	Dust - mg/m <sup>3</sup>	0.33	0.20	0.36	0.55	0.58	0.79	0.48		0.36			0.38	0.44
	As - ug/m <sup>3</sup>	19.52	20.5	21.9	19.70	24.0	25.42	16.36		15.00			17.00	17.02
Baghouse Top Floor	Total Resp													
	Dust - mg/m <sup>3</sup>	0.24	0.20	0.29	0.25	0.26	0.67	0.17		0.19			0.29	0.23
	As - ug/m <sup>3</sup>	20.93	18.5	19.1	24.04	18.9	21.65	19.45		17.40			18.90	19.95
Refinery Furnace	Total Resp													
	Dust - mg/m <sup>3</sup>	1.27	1.00	1.18	0.89	1.20	0.99	1.08	1.30	1.10	1.32	1.20	1.80	1.22
	As - ug/m <sup>3</sup>	35.34	34.65	37.31	34.88	37.55	35.58	37.3	38.42	35.8	37.45	38.00	37.24	39.44
Refinery Control Room	Total Resp													
	Dust - mg/m <sup>3</sup>	0.11	0.26	0.15	0.20	0.26	0.23	0.34	0.18	0.14	0.12		0.10	0.19
	As - ug/m <sup>3</sup>	7.25	8.00	6.01	6.50	7.10	6.90	7.15	6.00	5.40	5.00		5.30	6.42
Carbon Plant	Total Resp													
	Dust - mg/m <sup>3</sup>			0.25			0.20			0.30			0.22	0.24
	As - ug/m <sup>3</sup>			12.1	21.44		18.01			21.00			17.05	19.38

Threshold Limit Values: Total Arsenic - 50 micrograms per cubic meter  
Respirable Dust - 5.0 milligrams per cubic meter

## AIR SAMPLING REPORT CONT'D.

STATION		JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	AVERAGE
<del>Wood Picker</del>	Total Resp													
	Dust - mg/m <sup>3</sup>		<del>0.92</del>			<del>1.11</del>			1.20				1.01	1.06
	Silica - ug/m <sup>3</sup>		<del>1.47</del>			<del>1.50</del>								
Jaw Crusher	Total Resp													
	Dust - mg/m <sup>3</sup>		0.99			1.20			1.09				1.23	1.13
	Silica - ug/m <sup>3</sup>		1.80			1.96								
Cone Crusher	Total Resp													
	Dust - mg/m <sup>3</sup>		1.18			1.26			1.30				1.25	1.25
	Silica - ug/m <sup>3</sup>		1.70			1.8								
Screen Floor	Total Resp													
	Dust - mg/m <sup>3</sup>		0.84			0.94			1.00				1.11	0.97
	Silica - ug/m <sup>3</sup>		2.60			2.12								
Top of Ore Bins	Total Resp													
	Dust - mg/m <sup>3</sup>		0.52			0.99			1.44				0.89	0.96
	Silica - ug/m <sup>3</sup>		1.52			2.3								
Crusher Setting Room	Total Resp													
	Dust - mg/m <sup>3</sup>		0.15			0.12			0.18				0.14	0.15
	Silica - ug/m <sup>3</sup>													
Crusher Control Room	Total Resp													
	Dust - mg/m <sup>3</sup>		0.13			0.18			0.11				0.16	0.15
	Silica - ug/m <sup>3</sup>													
Under Ore Bins	Total Resp	.64			.20									
	Dust - mg/m <sup>3</sup>	0.41			0.35			0.39			0.18			0.33
	Silica - ug/m <sup>3</sup>													
#2 Ball Mill	Total Resp	.48			.22									
	Dust - mg/m <sup>3</sup>	0.26			0.29			0.22			0.15			0.23
	Silica - ug/m <sup>3</sup>													
Flotation Bench	Total Resp	.18			.15									
	Dust - mg/m <sup>3</sup>	0.23			0.18			0.14			0.10			0.16
	Silica - ug/m <sup>3</sup>													
Solutions Desk	Total Resp	.20			.15									
	Dust - mg/m <sup>3</sup>	0.26			0.15			0.12			0.10			0.16
	Silica - ug/m <sup>3</sup>													
Cyanide Mix Area	Total Resp	.40			.18									
	Dust - mg/m <sup>3</sup>	0.38			0.60			0.54			0.42			0.49
	Silica - ug/m <sup>3</sup>													

Threshold Limit Values: Respirable Dust - 5.0 milligrams per cubic meter

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Roaster Filter Floor	Total Resp													
	Dust - mg/m <sup>3</sup>			0.32			0.54			0.60			0.48	0.49
	As - ug/m <sup>3</sup>			18.47			18.36			19.80			21.00	19.41
Roaster Control Room	Total Resp													
	Dust - mg/m <sup>3</sup>			0.16			0.12			0.14			0.18	0.15
	As - ug/m <sup>3</sup>			7.30			6.00			9.50			9.20	8.00
Roaster Top Floor	Total Resp													
	Dust - mg/m <sup>3</sup>			0.29			0.36			0.31			0.48	0.36
	As - ug/m <sup>3</sup>			30.90			28.00			26.20			27.50	28.15
Cottrell Top Floor	Total Resp													
	Dust - mg/m <sup>3</sup>			0.53			0.47			0.44			0.46	0.48
	As - ug/m <sup>3</sup>			27.16			28.11			24.50			22.10	25.47
Cottrell Bottom Floor	Total Resp													
	Dust - mg/m <sup>3</sup>			0.56			0.40			0.52			0.36	0.46
	As - ug/m <sup>3</sup>			28.80			18.35			20.00			19.26	21.60
Cottrell Control Room	Total Resp													
	Dust - mg/m <sup>3</sup>			0.21			0.14			0.10			0.12	0.14
	As - ug/m <sup>3</sup>			5.56			6.18			5.80			5.35	5.72
Baghouse Bottom Floor	Total Resp													
	Dust - mg/m <sup>3</sup>			0.55			0.48			0.36			0.38	0.44
	As - ug/m <sup>3</sup>			19.70			16.36			15.00			17.00	17.02
Baghouse Top Floor	Total Resp													
	Dust - mg/m <sup>3</sup>			0.25			0.17			0.19			0.29	0.23
	As - ug/m <sup>3</sup>			24.04			19.45			17.40			18.90	19.95
Refinery Furnace	Total Resp													
	Dust - mg/m <sup>3</sup>	1.00	0.89	1.09	1.14	1.26	1.10	1.32	1.20	1.80	1.40		1.20	1.22
	As - ug/m <sup>3</sup>	34.65	31.88	35.58	37.3	38.12	37.45	38.00	37.24	39.44	35.86		36.00	36.50
Refinery Control Room	Total Resp													
	Dust - mg/m <sup>3</sup>	0.11	0.26	0.15	0.20	0.26	0.23	0.34	0.18	0.14	0.12		0.10	0.19
	As - ug/m <sup>3</sup>	7.25	8.00	6.01	6.50	7.10	6.90	7.15	6.00	5.40	5.00		5.30	6.42
Carbon Plant	Total Resp													
	Dust - mg/m <sup>3</sup>			0.25			0.20			0.30			0.22	0.24
	As - ug/m <sup>3</sup>			21.44			18.01			21.00			17.05	19.38

Threshold Limit Values: Total Arsenic - 50 micrograms per cubic meter  
Respirable Dust - 5.0 milligrams per cubic meter

AIR SAMPLING REPORT CONT'D.

STATION		JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	AVERAGE
Wood Picker	Total Resp													
	Dust - mg/m <sup>3</sup>		0.92			1.11			1.20				1.01	1.06
	Silica - ug/m <sup>3</sup>													
Jaw Crusher	Total Resp													
	Dust - mg/m <sup>3</sup>		0.99			1.20			1.09				1.23	1.13
	Silica - ug/m <sup>3</sup>													
Cone Crusher	Total Resp													
	Dust - mg/m <sup>3</sup>		1.18			1.26			1.30				1.25	1.25
	Silica - ug/m <sup>3</sup>													
Screen Floor	Total Resp													
	Dust - mg/m <sup>3</sup>		0.84			0.94			1.00				1.11	0.97
	Silica - ug/m <sup>3</sup>													
Top of Ore Bins	Total Resp													
	Dust - mg/m <sup>3</sup>		0.52			0.99			1.44				0.89	0.96
	Silica - ug/m <sup>3</sup>													
Crusher Setting Room	Total Resp													
	Dust - mg/m <sup>3</sup>		0.15			0.12			0.18				0.14	0.15
	Silica - ug/m <sup>3</sup>													
Crusher Control Room	Total Resp													
	Dust - mg/m <sup>3</sup>		0.13			0.18			0.11				0.16	0.15
	Silica - ug/m <sup>3</sup>													
Under Ore Bins	Total Resp													
	Dust - mg/m <sup>3</sup>	0.41			0.35			0.39			0.18			0.33
#2 Ball Mill	Total Resp													
	Dust - mg/m <sup>3</sup>	0.25			0.29			0.22			0.15			0.23
Flotation Bench	Total Resp													
	Dust - mg/m <sup>3</sup>	0.23			0.18			0.14			0.10			0.16
Solutions Desk	Total Resp													
	Dust - mg/m <sup>3</sup>	0.26			0.15			0.12			0.10			0.16
Cyanide Mix Area	Total Resp													
	Dust - mg/m <sup>3</sup>	0.38			0.60			0.54			0.42			0.49

Threshold Limit Values: Respirable Dust - 5.0 milligrams per cubic meter