

Giant Yellowknife Mines Limited

Roaster Stack Emission Test Summary

Date	Baghouse Conditions	Emission Rate (mg/m ³ As)	Emission Rate (lb/day As)	Isokinematic (%) ***	Baghouse Efficiency (%)
11/18/86	0% Shaking	16.31	53.46	100.25	99.68
11/19/85	0% Shaking	14.43	59.59	94.64	99.64
07/21/83	23% Shaking	8.62	31.40	92.14	99.87
12/15/82	25% Shaking	10.17	29.11	95.01	N.A.
08/25/81	33% Shaking	14.11	37.98	99.66	99.81
08/21/81	10% Shaking	9.26	24.51	98.14	99.84
08/20/81	28% Shaking	18.89	52.87	96.93	99.71
08/07/81	100% Shaking	18.38	59.66	96.75	99.72
07/31/81	45% Shaking	5.80	17.88	97.95	99.91
07/14/81	N.A.	5.51	18.37	97.05	99.92
06/24/81	0% Shaking	4.38	14.20	98.37	99.91
05/28/81	50% Shaking	6.70	18.55	100.66	99.96
05/27/81	23% Shaking	6.74	19.36	99.43	99.89
03/16/81	0% Shaking	6.16	17.29	81.53	99.92
07/25/79	30% Shaking	32.28	95.12	91.43	99.46
05/23/79	25% Shaking	4.75	15.20	90.24	99.93
02/15/79	0% Shaking	3.51	11.74	86.70	99.94
01/26/79	0% Shaking	2.10	6.00	94.38	99.97
10/25/78	50% Shaking	21.24	77.07	96.19	99.67
10/19/78	0% Shaking	24.54	74.31	94.27	99.67
10/18/78	5% Shaking	26.77	98.40	93.83	99.40
10/16/78	30% Shaking	17.52	53.39	100.60	99.76
07/06/78	25% Shaking	20.03	67.59	88.82	99.68
07/04/78	50% Shaking	24.53	74.60	96.10	99.64
06/26/78	70% Shaking	23.86	78.25	89.23	99.66
06/22/78	40% Shaking	19.99	63.80	89.05	99.73
06/19/78	0% Shaking	16.59	52.89	91.05	99.77
06/15/78	50% Shaking	44.66	131.24	86.13	99.37
05/09/78	100% Shaking	13.21	31.14	93.93	99.85
05/05/78	0% Shaking	5.95	13.96	95.11	99.93
05/03/78	0% Shaking	16.52	46.38	92.67	99.79
04/28/78	46% Shaking	5.76	14.88	82.90	99.92
04/26/78	0% Shaking	5.02	11.57	103.70	99.94
04/19/78	48% Shaking	12.36	28.53	108.34	99.78
10/28/77	100% Shaking	12.65	30.31	93.37	99.86
10/18/77 **	0% Shaking	14.63	36.26	99.31	99.83

Date	Baghouse Conditions	Emission Rate (mg/m ³ As)	Emission Rate (lb/day As)	Isokinematic (%) ***	Baghouse Efficiency (%)
10/06/77	N.A.	41.02	105.84	105.09	99.41
09/22/77	N.A.	18.12	64.80	89.59	99.71
09/09/77	N.A.	53.54	88.32	124.00	99.62
08/24/77 *	N.A.	214.87	680.00	N.A.	96.61
07/21/77	N.A.	247.37	760.46	N.A.	96.13
06/20/77	N.A.	193.13	621.00	N.A.	96.81
09/23/76	N.A.	206.14	698.00	N.A.	96.94
09/02/76	N.A.	152.84	482.00	N.A.	98.09
07/16/76	N.A.	88.80	266.30	N.A.	98.71
06/18/76	N.A.	117.01	343.80	N.A.	98.41
05/10/76	N.A.	119.21	390.40	N.A.	98.18
09/18/75	N.A.	139.00	436.49	N.A.	97.98
08/29/75	N.A.	193.80	604.95	N.A.	96.94
08/08/75	N.A.	203.81	664.03	N.A.	96.27
06/24/75	N.A.	194.52	673.70	N.A.	96.81
06/10/75	N.A.	124.27	428.70	N.A.	97.88
05/26/75	N.A.	78.40	273.01	N.A.	98.31
05/02/75	N.A.	77.64	273.06	N.A.	98.66

*** The isokinematic parameter is a calculated figure that determines if sampling of the gas stream was done at the correct temperatures and velocities. The range of 90% to 110% defines a valid test.

** Initiated the practice of automatic shaking cycle controlled by pressure drop through the baghouse.

* Initiated the use of Nutech Isokinetic stack sampling equipment replacing the previously used Joy apparatus.

In 1979 the Gazette of Canada reported the announcement of the Minister of the Environment to introduce legislation which would set a national standard for arsenic emissions from gold roasting plants. Under this act the new limit for arsenic emissions would be 20.0 mg/m³. Currently this proposed act is still under review and is not in force.