

Dr. E. Kay

CA55-10-13

J. P. Windish

December 4, 1956

Arsenic Collection Efficiencies at Con Mine, Yellowknife.

The following data shows the efficiency with which arsenic was being collected by the Con impinger, as determined by our stack sampling tests conducted in July of this year.

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Test No.	Date	Sampling Period (24 hour clock)	Arsenic lost to atmosphere		% arsenic collected
			%	Tons/day	
1	3 Jul 56	1525 - 1645 N-S 1720 - 1840 E-W	3.72	0.167	96.3
2A	4 Jul 56	1007 - 1127 N-S	3.31	0.149	96.7
3A	5 Jul 56	1020 - 1140 N-S	3.48	0.156	96.5
3B	5 Jul 56	1325 - 1445 E-W	2.35	0.105	97.7
4	6 Jul 56	1600 - 1720 N-S 1800 - 1920 E-W	2.44	0.110	97.6
5	7 Jul 56	1130 - 1250 N-S 1315 - 1435 E-W	1.57	0.071	98.4
6	9 Jul 56	1055 - 1215 N-S 1315 - 1435 E-W	2.28	0.083	97.7
7	10 Jul 56	0905 - 1025 N-S 1055 - 1215 E-W	4.38	0.159	95.6
8	10 Jul 56	1355 - 1515 N-S 1545 - 1705 E-W	1.58	0.057	98.4
9	10 Jul 56	2025 - 2145 N-S 2240 - Midnight E-W	3.21	0.116	96.8
10	11 Jul 56	1410 - 1530 N-S 1600 - 1720 E-W	2.90	0.105	97.1
11	11 Jul 56	1950 - 2110 N-S 2205 - 2325 E-W	1.66	0.060	98.3
12	12 Jul 56	0845 - 1005 N-S 1040 - 1200 E-W	1.23	0.045	98.8
13	12 Jul 56	1425 - 1545 N-S 1625 - 1745 E-W	1.30	0.047	98.7
Averages:			2.52	0.102	97.5

Tests 2A and 3A consisted of North-South sampling traverses only. Test 3B consisted of an East-West sampling traverse only. All other tests consisted of combined North-South and East-West sampling traverses. Tests 7, 8 and 9 were taken anisokinetically; all others were taken isokinetically.

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J. P. Windish,
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JPW/lms

- cc.: Mr. K. Raht
- Mr. J. Coletherpe
- Mr. E. Christie
- Mr. S. Homalos
- Dr. O. Stanton
- File.

Dr. Kay

J. P. Windish

CA55-10-13

December 4, 1956

Arsenic Collection Efficiencies at Giant Yellowknife

The following data shows the efficiency with which arsenic was being collected by the Giant Cottrell plant, as determined by stack sampling tests conducted in July of this year. All tests were two-hour isokinetic traverses.

Test No.	Date	Sampling Period (24 hour clock)	Arsenic lost to atmosphere % Tons/day		% arsenic collected
14	14 Jul 56	1220 - 1420	47.6	5.0	52.4
15	14 Jul 56	1725 - 1925	51.7	5.5	48.3
16	16 Jul 56	1010 - 1210	57.3	5.8	42.7
17	16 Jul 56	1900 - 2100	46.1	4.7	53.9
18	17 Jul 56	1440 - 1640	47.7	5.9	52.3
19	17 Jul 56	1920 - 2120	32.8	4.0	67.2
20	18 Jul 56	0900 - 1100	39.4	4.1	61.6
21	18 Jul 56	1205 - 1405	44.7	4.7	55.3
22	18 Jul 56	1510 - 1710	52.8	5.5	47.2
23	19 Jul 56	0945 - 1145	62.5	6.3	37.5
24	19 Jul 56	1250 - 1450	18.3	1.8	82.7
Averages:			45.5	4.8	54.6

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