

Appendix K – Background Determination of Dust Fall-out

Background Determination of Dust Fallout

Sample Location	Blank wt (g)	Wt after (g)	Difference (g)	Difference (mg)	mg/m ²
12	7.5229	7.5291	0.0062	6.2	145.6
14	7.5077	7.5153	0.0076	7.6	178.5
35	7.5014	7.5095	0.0081	8.1	190.3
31	7.5126	7.5212	0.0086	8.6	202.0
5	7.5406	7.5517	0.0111	11.1	260.7
13	7.5133	7.5255	0.0122	12.2	286.6
37	7.5451	7.5662	0.0211	21.1	495.6
7	7.4959	7.5176	0.0217	21.7	509.7
17	7.5009	7.5232	0.0223	22.3	523.8
39	7.5244	7.5469	0.0225	22.5	528.5
11	7.5224	7.5458	0.0234	23.4	549.6
4	7.4909	7.5145	0.0236	23.6	554.3
33	7.5304	7.5562	0.0258	25.8	606.0
36	7.5176	7.5442	0.0266	26.6	624.8
2	7.5109	7.5439	0.033	33	775.1
9	7.4992	7.5322	0.033	33	775.1

average mg/m²

std dev mg/m²

2 * Std Dev mg/m²

10% mg/m²

Upper Control Limit mg/m²

Petri Dish
Radius 4.4 cm
Area of
collection 0.0061 m²

days allowed for
fallout 7 days

Appendix K : Dust & Noise Monitoring Points

Sample Location Id	GPS Coordinates		RL	Method (+ tested for Calcium & magnesium)	Frequency of sample test
1	34° 28' 32" S	139° 03' 39" E	378	Dust Fallout Collection Petri Dish	3 monthly cumulative over 3 months
2	34° 27' 58" S	139° 03' 06" E	329	Dust Fallout Collection Petri Dish	3 monthly cumulative over 3 months
3	34° 28' 04" S	139° 03' 04" E	342	Dust Fallout Collection Petri Dish	3 monthly cumulative over 3 months
4	34° 28' 10" S	139° 02' 17" E	315	Dust Fallout Collection Petri Dish	3 monthly cumulative over 3 months
5	34° 27' 31" S	139° 02' 24" E	297	Dust Fallout Collection Petri Dish	3 monthly cumulative over 3 months
6	34° 27' 29" S	139° 02' 19" E	297	Dust Fallout Collection Petri Dish	3 monthly cumulative over 3 months
7	34° 27' 40" S	139° 02' 29" E	291	Dust Fallout Collection Petri Dish	3 monthly cumulative over 3 months
8	34° 28' 04" S	139° 01' 58" E	294	Dust Fallout Collection Petri Dish	3 monthly cumulative over 3 months
9	34° 28' 09" S	139° 02' 15" E	301	Dust Fallout Collection Petri Dish	3 monthly cumulative over 3 months
10	34° 28' 13" S	139° 02' 14" E	307	Dust Fallout Collection Petri Dish	3 monthly cumulative over 3 months
11	34° 28' 24" S	139° 02' 10" E	309	Dust Fallout Collection Petri Dish	3 monthly cumulative over 3 months
12	34° 29' 26" S	139° 02' 07" E	331	Dust Fallout Collection Petri Dish	3 monthly cumulative over 3 months
13	34° 28' 41" S	139° 02' 02" E	319	Dust Fallout Collection Petri Dish	3 monthly cumulative over 3 months
14	34° 29' 20" S	139° 01' 58" E	318	Dust Fallout Collection Petri Dish	3 monthly cumulative over 3 months
15	34° 29' 22" S	139° 01' 51" E	317	Dust Fallout Collection Petri Dish	3 monthly cumulative over 3 months
16	34° 29' 12" S	139° 01' 18" E	298	Dust Fallout Collection Petri Dish	3 monthly cumulative over 3 months
17	34° 29' 16" S	139° 01' 36" E	314	Dust Fallout Collection Petri Dish	3 monthly cumulative over 3 months
18	34° 29' 15" S	139° 01' 47" E	318	Dust Fallout Collection Petri Dish	3 monthly cumulative over 3 months
19	34° 29' 30" S	139° 01' 48" E	317	Dust Fallout Collection Petri Dish	3 monthly cumulative over 3 months
31	34° 29' 53" S	139° 03' 49" E	419	Dust Fallout Collection Petri Dish	3 monthly cumulative over 3 months
32	34° 29' 52" S	139° 03' 40" E	433	Dust Fallout Collection Petri Dish	3 monthly cumulative over 3 months
33	13° 42' 92" S	139° 03' 56" E	434	Dust Fallout Collection Petri Dish	3 monthly cumulative over 3 months
34	34° 29' 28" S	139° 04' 04" E	441	Dust Fallout Collection Petri Dish	3 monthly cumulative over 3 months
35	34° 29' 24" S	139° 03' 33" E	420	Dust Fallout Collection Petri Dish	3 monthly cumulative over 3 months
36	34° 29' 18" S	139° 03' 28" E	419	Dust Fallout Collection Petri Dish	3 monthly cumulative over 3 months
37	34° 27' 59" S	139° 03' 28" E	326	Dust Fallout Collection Petri Dish	3 monthly cumulative over 3 months
38	34° 28' 11" S	139° 03' 57" E	355	Dust Fallout Collection Petri Dish	3 monthly cumulative over 3 months
39	34° 28' 18" S	139° 03' 42" E	356	Dust Fallout Collection Petri Dish	3 monthly cumulative over 3 months
40	34° 28' 29" S	139° 03' 41" E	373	Dust Fallout Collection Petri Dish	3 monthly cumulative over 3 months
99	34° 28' 39" S	139° 02' 44" E	361	Dust Fallout Collection Petri Dish	3 monthly cumulative over 3 months
20	34° 29' 00" S	139° 01' 55" E	310	Dust Fallout Collection Petri Dish	3 monthly cumulative over 3 months
21	34° 29' 53" S	139° 03' 49" E	419	Dust Fallout Collection Petri Dish	3 monthly cumulative over 3 months
22	34° 29' 52" S	139° 03' 40" E	433	Dust Fallout Collection Petri Dish	3 monthly cumulative over 3 months
23	13° 42' 92" S	139° 03' 56" E	434	Dust Fallout Collection Petri Dish	3 monthly cumulative over 3 months
24	34° 29' 28" S	139° 04' 04" E	441	Dust Fallout Collection Petri Dish	3 monthly cumulative over 3 months
25	34° 29' 24" S	139° 03' 33" E	420	Dust Fallout Collection Petri Dish	3 monthly cumulative over 3 months
26	34° 29' 18" S	139° 03' 28" E	419	Dust Fallout Collection Petri Dish	3 monthly cumulative over 3 months
27	34° 27' 59" S	139° 03' 28" E	326	Dust Fallout Collection Petri Dish	3 monthly cumulative over 3 months
29	34° 28' 11" S	139° 03' 57" E	355	Dust Fallout Collection Petri Dish	3 monthly cumulative over 3 months
30	34° 28' 29" S	139° 03' 41" E	373	Dust Fallout Collection Petri Dish	3 monthly cumulative over 3 months
P1				Dust Fallout Collection Petri Dish	6 monthly cumulative over 6 months
P2				Dust Fallout Collection Petri Dish	6 monthly cumulative over 6 months
P3				Dust Fallout Collection Petri Dish	6 monthly cumulative over 6 months
P4				Dust Fallout Collection Petri Dish	6 monthly cumulative over 6 months
P5				Dust Fallout Collection Petri Dish	6 monthly cumulative over 6 months
P6				Dust Fallout Collection Petri Dish	6 monthly cumulative over 6 months

Note: When dust sampling devices are collected a noise reading is taken

Appendix K : External Noise & Dust Monitoring Points

Sample Location Id	Grid Position Coordinates 0,' " D		RL	Location
1	34° 28' 58" S	139° 02' 20" E	318	Cnr Salesyard and Penrice Rd
2 #	34° 29' 5" S	139° 2' 40" E	349	Cnr Penrice and Rowland Rd
3	34° 29' 7" S	139° 2' 52" E	358	Salem Rd near PSP bore
4 #	34° 28' 49" S	139° 3' 23" E	383	Salem Rd (Fechners gateway)
5	34° 28' 41" S	139° 3' 25" E	392	Kalimna rd (Swartz Property)
6	34° 28' 24" S	139° 3' 13" E	366	Kalimna Rd (Bray's entrance)
7 #	34° 28' 13" S	139° 3' 0" E	337	Cnr Kalimna and Waechters Rd
8	34° 28' 11" S	139° 2' 16" E	299	Cnr Kalimna and Stockwell Rd
9	34° 28' 28" S	139° 2' 8" E	300	Stockwell Rd (John'S)
10 #	34° 28' 49" S	139° 2' 14" E	315	Penrice Rd (Cowhams Entrance)
11	34° 28' 43" S	139° 2' 1" E	303	Cnr Stockwell and Penrice Rds

Noise – sampling at all above sites quarterly for the day & night readings

Dust – sampling # sites with permanent continuous Hivol units

And all other sites using a mobile Hivol unit bimonthly

Appendix K :Three (3) monthly sampling of between 15 and 40 sample sites

Sampling cumulatively for 7 days both in and around the mine site. Each sample tested for total solids

