

Monitoring Point 1

Surface gas monitoring , Less than 51 mm from the surface of the landfill - wind speed less than 2.8 m/s in a grid of 35m x 35m (24 points) and in a 25 m wide zone around the perimeter of the landfilled area.

Pollutant	Unit of measure	No. of samples required	No. of samples collected and analysed	Lowest sample value	Mean of sample	Highest sample value
Methane	parts per million	4	4	0	1.8	78.9

Monitoring Point 2

Sub-surface gas monitoring, GM1 as depicted in figure 4.2 of the Environmental Monitoring Report, 17 November 1999 - by Egis Consulting Australia Pty Ltd

Pollutant	Unit of measure	No. of samples required	No. of samples collected and analysed	Lowest sample value	Mean of sample	Highest sample value
Carbon dioxide	percent by volume	4	4	0.4	2.7	5.1
Methane	percent by volume	4	4	0	6.9	10.4
Oxygen (O ₂)	percent by volume	4	4	16	18	20

Monitoring Point 3

Sub-surface gas monitoring, GM2 as depicted in figure 4.2 of the Environmental Monitoring Report, 17 November 1999 - by Egis Consulting Australia Pty Ltd

Pollutant	Unit of measure	No. of samples required	No. of samples collected and analysed	Lowest sample value	Mean of sample	Highest sample value
Carbon dioxide	percent by volume	4	0	N/A	N/A	N/A
Methane	percent by volume	4	0	N/A	N/A	N/A
Oxygen (O ₂)	percent by volume	4	0	N/A	N/A	N/A

Monitoring Point 4

Sub-surface gas monitoring, GM3 as depicted in figure 4.2 of the Environmental Monitoring Report, 17 November 1999 - by Egis Consulting Australia Pty Ltd

Pollutant	Unit of measure	No. of samples required	No. of samples collected and analysed	Lowest sample value	Mean of sample	Highest sample value
Carbon dioxide	percent by volume	4	4	0.2	0.9	2.9
Methane	percent by volume	4	4	0	0.4	1.7
Oxygen (O2)	percent by volume	4	4	17	20	21

Monitoring Point 5

Sub-surface gas monitoring, GM4 as depicted in figure 4.2 of the Environmental Monitoring Report, 17 November 1999 - by Egis Consulting Australia Pty Ltd

Pollutant	Unit of measure	No. of samples required	No. of samples collected and analysed	Lowest sample value	Mean of sample	Highest sample value
Carbon dioxide	percent by volume	4	4	0.3	2.7	7.1
Methane	percent by volume	4	4	0	2.5	10.1
Oxygen (O2)	percent by volume	4	4	15.1	19	21

Monitoring Point 6

Sub-surface gas monitoring, GM5 as depicted in figure 4.2 of the Environmental Monitoring Report, 17 November 1999 - by Egis Consulting Australia Pty Ltd

Pollutant	Unit of measure	No. of samples required	No. of samples collected and analysed	Lowest sample value	Mean of sample	Highest sample value
Carbon dioxide	percent by volume	4	0	N/A	N/A	N/A
Methane	percent by volume	4	0	N/A	N/A	N/A
Oxygen (O2)	percent by volume	4	0	N/A	N/A	N/A

Monitoring Point 7

Sub-surface gas monitoring, GM6 as depicted in figure 4.2 of the Environmental Monitoring report, 17 November 1999 - by Egis Consulting Australia Pty Ltd

Pollutant	Unit of measure	No. of samples required	No. of samples collected and analysed	Lowest sample value	Mean of sample	Highest sample value
Carbon dioxide	percent by volume	4	4	0.1	4	8.8
Methane	percent by volume	4	4	0	0	0
Oxygen (O2)	percent by volume	4	4	14	18	21

Monitoring Point 8

Sub-surface gas monitoring, GM7 as depicted in figure 4.2 of the Environmental Monitoring Report, 17 November 1999 - by Egis Consulting Australia Pty Ltd

Pollutant	Unit of measure	No. of samples required	No. of samples collected and analysed	Lowest sample value	Mean of sample	Highest sample value
Carbon dioxide	percent by volume	4	4	0.1	0.3	0.9
Methane	percent by volume	4	4	0	0	0
Oxygen (O2)	percent by volume	4	4	20	21	21

Monitoring Point 9

Sub-surface gas monitoring, GM8 as depicted in figure 4.2 of the Environmental Monitoring Report, 17 November 1999 - by Egis Consulting Australia Pty Ltd

Pollutant	Unit of measure	No. of samples required	No. of samples collected and analysed	Lowest sample value	Mean of sample	Highest sample value
Carbon dioxide	percent by volume	4	4	4.4	7.4	11.6
Methane	percent by volume	4	4	0	0	0
Oxygen (O2)	percent by volume	4	4	13.2	12	16



Monitoring Point 10

Sub-surface gas monitoring, GM9 as depicted in figure 4.2 of the Environmental Monitoring Report, 17 November 1999 - by Egis Consulting Australia Pty Ltd

Pollutant	Unit of measure	No. of samples required	No. of samples collected and analysed	Lowest sample value	Mean of sample	Highest sample value
Carbon dioxide	percent by volume	4	4	0.3	2.7	5.8
Methane	percent by volume	4	4	0	0	0
Oxygen (O ₂)	percent by volume	4	4	14	18	21

Monitoring Point 11

Sub-surface gas monitoring, GM10 as depicted in figure 4.2 of the Environmental Monitoring Report, 17 November 1999 - by Egis Consulting Australia Pty Ltd

Pollutant	Unit of measure	No. of samples required	No. of samples collected and analysed	Lowest sample value	Mean of sample	Highest sample value
Carbon dioxide	percent by volume	4	4	0.1	3.6	10.8
Methane	percent by volume	4	4	0	0.8	1.8
Oxygen (O ₂)	percent by volume	4	4	11.4	17	20

Monitoring Point 12

Sub-surface gas monitoring, GM11 as depicted in figure 4.2 of the Environmental Monitoring Report, 17 November 1999 - by Egis Consulting Australia Pty Ltd

Pollutant	Unit of measure	No. of samples required	No. of samples collected and analysed	Lowest sample value	Mean of sample	Highest sample value
Carbon dioxide	percent by volume	4	4	0.2	3.8	11.4
Methane	percent by volume	4	4	0	11.3	42.8
Oxygen (O ₂)	percent by volume	4	4	8	16	21

Monitoring Point 13

Surface water quality, A surface depression on the western side of the landfill containing water which may be discharged onto the premises owned by Jacfin Pty Ltd

Pollutant	Unit of measure	No. of samples required	No. of samples collected and analysed	Lowest sample value	Mean of sample	Highest sample value
Alkalinity (as calcium carbonate)	milligrams per litre	1	4	<10	<10	<10
BOD	milligrams per litre	4	1	<5	<5	<5
Cadmium	milligrams per litre	1	5	<0.0002	<0.0002	<0.0002
Calcium	milligrams per litre	4	5	27	60	100
Chloride	milligrams per litre	4	5	45	371	1100
Chromium	milligrams per litre	1	5	<0.001	0.0011	0.003
Conductivity	microsiemens per centimetre	4	3	1000	1085	1216
Copper	milligrams per litre	1	5	<0.001	0.0011	0.003
Fluoride	milligrams per litre	1	5	1.4	4.7	2
Iron	milligrams per litre	1	1	3.3	3.3	3.3
Lead	milligrams per litre	1	5	<0.0001	<0.0001	<0.0001
Magnesium	milligrams per litre	4	5	12	34	57
Manganese	milligrams per litre	1	1	2	2	2
Nitrogen	milligrams per litre	4	5	0.3	2.376	8.700
Nitrogen (ammonia)	milligrams per litre	4	5	<0.05	0.37	1.1
pH	pH	4	2	6.61	7.125	7.64
Phosphorus (total)	milligrams per litre	1	2	0.07	0.08	0.08
Potassium	milligrams per litre	4	5	9.3	14	18
Redox potential	millivolts	4	2	-55.1	-87.55	-120
Sodium	milligrams per litre	4	5	65	211	380

Standing Water Level	metres	4	0	0	0	0
Sulfate	milligrams per litre	4	5	6.2	41	90
Temperature	degrees Celsius	4	2	13	16.35	19.7
Total dissolved solids	milligrams per litre	4	1	650	650	650
Total Kjeldahl Nitrogen	milligrams per litre	4	5	0.3	2.4	8.7
Total organic carbon	milligrams per litre	4	1	69	69	69
Total Phenolics	milligrams per litre	1	1	<50	<50	<50
Total suspended solids	milligrams per litre	4	1	27	27	27
Zinc	milligrams per litre	1	5	<0.005	<0.005	0.006

Monitoring Point 14

Groundwater chemical composition, OW1 as depicted in figure 4.1 in the Landfill Closure Plan, April 1999
- by Egis Consulting Australia Pty Ltd

Pollutant	Unit of measure	No. of samples required	No. of samples collected and analysed	Lowest sample value	Mean of sample	Highest sample value
Alkalinity (as calcium carbonate)	milligrams per litre	4	4	74	369	650
BOD	milligrams per litre	4	4	2	2.5	7.2
Cadmium	milligrams per litre	1	4	<0.0002	<0.0002	<0.0002
Calcium	milligrams per litre	4	4	12	46	83
Chloride	milligrams per litre	4	4	17	1704	5100
Chromium	milligrams per litre	1	4	<0.001	<0.001	<0.001
Conductivity	microsiemens per centimetre	4	4	219	3478	9994
Copper	milligrams per litre	1	4	<0.001	0.0016	0.005
Fluoride	milligrams per litre	1	4	<0.5	0.78	1.3
Iron	milligrams per litre	1	1	0.7	0.7	0.7

Lead	milligrams per litre	1	4	<0.001	<0.001	<0.001
Magnesium	milligrams per litre	4	4	3.1	59	140
Manganese	milligrams per litre	1	1	0.35	0.35	0.35
Nitrogen	milligrams per litre	4	4	0.730	2.825	6.100
Nitrogen (ammonia)	milligrams per litre	4	4	0.06	1	3.8
pH	pH	4	4	6.43	6.61	6.76
Phosphorus (total)	milligrams per litre	1	2	0.05	0.065	0.08
Potassium	milligrams per litre	4	4	7.3	9.1	12
Redox potential	millivolts	4	4	-159	-57	114.8
Sodium	milligrams per litre	4	4	24	621	1200
Standing Water Level	metres	4	4	4.63	6.05	7.995
Sulfate	milligrams per litre	4	4	4.4	131	450
Temperature	degrees Celsius	4	4	19.8	20.1	20.3
Total dissolved solids	milligrams per litre	4	1	1200	1200	1200
Total Kjeldahl Nitrogen	milligrams per litre	4	4	0.6	2.6	6.1
Total organic carbon	milligrams per litre	4	1	19	19	19
Total Phenolics	milligrams per litre	1	1	<50	<50	<50
Total suspended solids	milligrams per litre	4	1	150	150	150
Zinc	milligrams per litre	1	4	<0.005	0.0083	0.019

Monitoring Point 15

Groundwater chemical composition, OW2 as depicted in figure 4.1 in the Landfill Closure Plan, April 1999
- by Egis Consulting Australia Pty Ltd

Pollutant	Unit of measure	No. of samples required	No. of samples collected and analysed	Lowest sample value	Mean of sample	Highest sample value
Alkalinity (as calcium carbonate)	milligrams per litre	4	4	290	648	1100

BOD	milligrams per litre	4	1	<10	<10	<10
Cadmium	milligrams per litre	1	4	<0.0002	0.00018	0.0004
Calcium	milligrams per litre	4	4	90	145	210
Chloride	milligrams per litre	4	4	3400	6850	14000
Chromium	milligrams per litre	1	4	<0.001	<0.001	<0.001
Conductivity	microsiemens per centimetre	4	4	5212	11574	17306
Copper	milligrams per litre	1	4	0.002	0.0038	0.008
Fluoride	milligrams per litre	1	4	<0.5	0.94	1.3
Iron	milligrams per litre	1	1	0.08	0.08	0.08
Lead	milligrams per litre	1	4	<0.001	<0.001	<0.001
Magnesium	milligrams per litre	4	4	320	463	610
Manganese	milligrams per litre	1	1	1.2	1.2	1.2
Nitrogen	milligrams per litre	4	4	0.360	1.915	4.900
Nitrogen (ammonia)	milligrams per litre	4	4	<0.01	1.8	7.2
pH	pH	4	4	5.88	6.7	7.27
Phosphorus (total)	milligrams per litre	1	2	0.01	0.03	0.05
Potassium	milligrams per litre	4	4	15	18	21
Redox potential	millivolts	4	4	-55.9	45.95	114.6
Sodium	milligrams per litre	4	4	2200	3000	3500
Standing Water Level	metres	4	4	4.685	4.872	5.19
Sulfate	milligrams per litre	4	4	420	793	1600
Temperature	degrees Celsius	4	4	20.3	20.8	21.4
Total dissolved solids	milligrams per litre	4	1	5800	5800	5800
Total Kjeldahl Nitrogen	milligrams per litre	4	4	0.3	1.9	4.9
Total organic carbon	milligrams per litre	4	1	16	16	16

Total Phenolics	milligrams per litre	4	1	<50	<50	<50
Total suspended solids	milligrams per litre	4	1	16	16	16
Zinc	milligrams per litre	1	4	0.006	0.02	0.054

Monitoring Point 16

Groundwater chemical composition, OW4a approximately 60metres south east of landfilled waste as described in Appendix C of PGH correspondence dated 26 April 2006.

Pollutant	Unit of measure	No. of samples required	No. of samples collected and analysed	Lowest sample value	Mean of sample	Highest sample value
Alkalinity (as calcium carbonate)	milligrams per litre	4	4	<10	<10	<10
BOD	milligrams per litre	4	1	<10	<10	<10
Cadmium	milligrams per litre	1	4	<0.0002	<0.0002	<0.0002
Calcium	milligrams per litre	4	4	170	208	270
Chloride	milligrams per litre	4	4	3700	6000	10000
Chromium	milligrams per litre	1	4	<0.001	<0.001	<0.001
Conductivity	microsiemens per centimetre	4	4	5212	11574	17306
Copper	milligrams per litre	1	4	<0.001	0.0015	0.004
Fluoride	milligrams per litre	1	4	<0.5	0.81	1.3
Iron	milligrams per litre	1	1	1.2	1.2	1.2
Lead	milligrams per litre	1	4	<0.001	<0.001	<0.001
Magnesium	milligrams per litre	4	4	290	360	450
Manganese	milligrams per litre	1	1	0.46	0.46	0.46
Nitrogen	milligrams per litre	4	4	0.8	2.783	4.400
Nitrogen (ammonia)	milligrams per litre	4	4	0.22	0.48	0.71
pH	pH	4	4	6.77	6.89	7
Phosphorus (total)	milligrams per litre	1	2	<0.05	0.035	0.02

Potassium	milligrams per litre	4	4	<50	18	19
Redox potential	millivolts	4	4	-129	-20.73	68.7
Sodium	milligrams per litre	4	4	2300	2750	3500
Standing Water Level	metres	4	4	7.3	7.5	7.8
Sulfate	milligrams per litre	4	4	360	675	1400
Temperature	degrees Celsius	4	4	19.9	20.3	20.7
Total dissolved solids	milligrams per litre	4	1	8600	8600	8600
Total Kjeldahl Nitrogen	milligrams per litre	4	4	0.8	2.8	4.4
Total organic carbon	milligrams per litre	4	1	34	34	34
Total Phenolics	milligrams per litre	1	1	<50	<50	<50
Total suspended solids	milligrams per litre	4	1	74	74	74
Zinc	milligrams per litre	1	4	<0.005	0.0096	0.017

Monitoring Point 17

Groundwater chemical composition, OW5 as depicted in figure 4.1 in the Landfill Closure Plan, April 1999
- by Egis Consulting Australia Pty Ltd

Pollutant	Unit of measure	No. of samples required	No. of samples collected and analysed	Lowest sample value	Mean of sample	Highest sample value
Alkalinity (as calcium carbonate)	milligrams per litre	4	4	820	915	1000
BOD	milligrams per litre	4	1	<10	<10	<10
Cadmium	milligrams per litre	1	4	0.0002	0.0004	0.0008
Calcium	milligrams per litre	4	4	300	325	350
Chloride	milligrams per litre	4	4	3800	6025	11000
Chromium	milligrams per litre	1	4	<0.001	<0.001	<0.001
Conductivity	microsiemens per centimetre	4	4	5897	11739.5	14730
Copper	milligrams per litre	1	4	<0.001	0.0031	0.0007

Fluoride	milligrams per litre	1	4	<0.5	0.71	1.2
Iron	milligrams per litre	1	1	<0.05	<0.05	<0.05
Lead	milligrams per litre	1	4	<0.001	<0.001	<0.001
Magnesium	milligrams per litre	4	4	270	315	370
Manganese	milligrams per litre	1	1	4.7	4.7	4.7
Nitrogen	milligrams per litre	4	4	<0.2	1.078	3.410
Nitrogen (ammonia)	milligrams per litre	4	4	<0.01	0.14	0.54
pH	pH	4	4	6.45	6.58	6.73
Phosphorus (total)	milligrams per litre	1	2	<0.01	0.01	0.01
Potassium	milligrams per litre	4	4	6.4	9.4	15
Redox potential	millivolts	4	4	-1.2	62.63	132.4
Sodium	milligrams per litre	4	4	1900	2225	2500
Standing Water Level	metres	4	4	8.861	9.05	9.236
Sulfate	milligrams per litre	4	3	170	453	740
Temperature	degrees Celsius	4	4	20.2	21.38	24
Total dissolved solids	milligrams per litre	4	1	8400	8400	8400
Total Kjeldahl Nitrogen	milligrams per litre	4	4	<0.2	1.1	3.3
Total organic carbon	milligrams per litre	4	1	36	36	36
Total Phenolics	milligrams per litre	1	1	<50	<50	<50
Total suspended solids	milligrams per litre	4	1	880	880	880
Zinc	milligrams per litre	1	4	0.011	0.12	0.22

Monitoring Point 18

Groundwater chemical composition, OW7 as depicted in figure 4.1 in the Landfill Closure Plan, April 1999
- by Egis Consulting Australia Pty Ltd

Pollutant	Unit of measure	No. of samples required	No. of samples collected and analysed	Lowest sample value	Mean of sample	Highest sample value
Alkalinity (as calcium carbonate)	milligrams per litre	4	4	177	461	1100
BOD	milligrams per litre	4	4	<2	4.9	8.2
Cadmium	milligrams per litre	1	4	<0.0002	<0.0002	<0.0002
Calcium	milligrams per litre	4	4	24	270	733
Chloride	milligrams per litre	4	4	1200	5603	13000
Chromium	milligrams per litre	1	4	<0.001	0.0016	0.004
Conductivity	microsiemens per centimetre	4	4	5667	14590	30980
Copper	milligrams per litre	1	4	0.001	0.0021	0.003
Fluoride	milligrams per litre	1	4	0.2	0.91	2.3
Iron	milligrams per litre	1	4	1.04	3.2	5.6
Lead	milligrams per litre	1	4	<0.001	<0.001	<0.001
Magnesium	milligrams per litre	4	4	86	745	1200
Manganese	milligrams per litre	1	4	0.32	0.73	1.38
Nitrogen	milligrams per litre	4	4	0.59	2.4	7.62
Nitrogen (ammonia)	milligrams per litre	4	4	0.59	2.4	7.62
pH	pH	4	4	5.99	6.25	6.49
Phosphorus (total)	milligrams per litre	1	3	0.01	0.054	0.14
Potassium	milligrams per litre	4	4	5	50	85
Redox potential	millivolts	4	4	-105.9	24.15	166
Sodium	milligrams per litre	4	4	1400	3425	6500
Standing Water Level	metres	4	4	0.96	2.44	3.04
Sulfate	milligrams per litre	4	4	76	567	1100

Temperature	degrees Celsius	4	4	20.2	20.7	21.3
Total dissolved solids	milligrams per litre	4	4	3900	15698	25000
Total Kjeldahl Nitrogen	milligrams per litre	4	4	1.4	52	480
Total organic carbon	milligrams per litre	4	4	15	60	100
Total Phenolics	milligrams per litre	4	4	<50	<50	<50
Total suspended solids	milligrams per litre	4	4	6	14	27
Zinc	milligrams per litre	1	4	<0.005	0.044	0.072

Monitoring Point 19

Groundwater chemical composition, OW8 as depicted in figure 4.1 in the Landfill Closure Plan, April 1999
- by Egis Consulting Australia Pty Ltd

Pollutant	Unit of measure	No. of samples required	No. of samples collected and analysed	Lowest sample value	Mean of sample	Highest sample value
Alkalinity (as calcium carbonate)	milligrams per litre	4	4	1100	1150	1300
BOD	milligrams per litre	4	1	<10	<10	<10
Cadmium	milligrams per litre	1	4	<0.0002	<0.0002	<0.0002
Calcium	milligrams per litre	4	4	250	310	430
Chloride	milligrams per litre	4	4	6200	9125	16000
Chromium	milligrams per litre	1	4	<0.001	<0.001	<0.001
Conductivity	microsiemens per centimetre	4	4	16492	18123	19820
Copper	milligrams per litre	1	4	<0.001	<0.001	<0.001
Fluoride	milligrams per litre	1	4	<0.5	0.81	1.4
Iron	milligrams per litre	1	1	2.3	2.3	2.3
Lead	milligrams per litre	1	4	<0.001	<0.001	<0.001
Magnesium	milligrams per litre	4	4	500	615	830

Manganese	milligrams per litre	1	1	0.03	0.03	0.03
Nitrogen	milligrams per litre	4	4	0.9	3.038	4.80
Nitrogen (ammonia)	milligrams per litre	4	4	3.5	3.7	4.1
pH	pH	4	4	6.62	6.81	6.93
Phosphorus (total)	milligrams per litre	1	2	<0.05	0.03	0.04
Potassium	milligrams per litre	4	4	36	43	56
Redox potential	millivolts	4	4	-99.5	-57.45	34.3
Sodium	milligrams per litre	4	4	3600	4400	6000
Standing Water Level	metres	4	4	3.669	4.05	4.375
Sulfate	milligrams per litre	4	4	470	848	1100
Temperature	degrees Celsius	4	4	19.1	20.48	22.3
Total dissolved solids	milligrams per litre	4	1	12000	12000	12000
Total Kjeldahl Nitrogen	milligrams per litre	4	4	0.3	2.7	4.8
Total organic carbon	milligrams per litre	4	1	120	120	120
Total Phenolics	milligrams per litre	1	1	<50	<50	<50
Total suspended solids	milligrams per litre	4	1	110	110	110
Zinc	milligrams per litre	1	4	<0.005	0.0046	0.011

Monitoring Point 20

Leachate chemical composition and height, DW1 as depicted in figure 3.1 in the Landfill Closure Plan, April 1999 - by Egis Consulting Australia Pty Ltd

Pollutant	Unit of measure	No. of samples required	No. of samples collected and analysed	Lowest sample value	Mean of sample	Highest sample value
Alkalinity (as calcium carbonate)	milligrams per litre	4	4	800	1825	2900
BOD	milligrams per litre	4	1	<10	<10	<10
Cadmium	milligrams per litre	1	4	<0.0002	<0.0002	<0.0002

Calcium	milligrams per litre	4	4	75	79	82
Chloride	milligrams per litre	4	4	2600	4650	7800
Chromium	milligrams per litre	1	4	0.002	0.0035	0.004
Conductivity	microsiemens per centimetre	4	4	219.3	3478	9994
Copper	milligrams per litre	1	4	<0.001	<0.001	<0.001
Fluoride	milligrams per litre	1	4	<0.5	0.64	0.9
Iron	milligrams per litre	1	1	0.48	0.48	0.48
Lead	milligrams per litre	1	4	<0.001	<0.001	<0.001
Magnesium	milligrams per litre	4	4	100	130	160
Manganese	milligrams per litre	1	1	0.033	0.033	0.033
Nitrogen	milligrams per litre	4	4	98	137	170
Nitrogen (ammonia)	milligrams per litre	4	4	84	144	190
pH	pH	4	4	6.52	6.61	6.76
Phosphorus (total)	milligrams per litre	1	2	0.08	0.09	0.1
Potassium	milligrams per litre	4	4	140	168	200
Redox potential	millivolts	4	4	-159	-57.03	114.8
Sodium	milligrams per litre	4	4	1400	1775	2200
Standing Water Level	metres	4	4	10.26	11.72	12.21
Sulfate	milligrams per litre	4	4	<2	9.6	19
Temperature	degrees Celsius	4	4	19.8	20.1	20.3
Total dissolved solids	milligrams per litre	4	1	4800	4800	4800
Total Kjeldahl Nitrogen	milligrams per litre	4	4	98	137	170
Total organic carbon	milligrams per litre	4	1	63	63	63
Total Phenolics	milligrams per litre	1	1	<50	<50	<50
Total suspended solids	milligrams per litre	4	1	5.3	5.3	5.3

Zinc	milligrams per litre	1	4	<0.005	<0.005	<0.005
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Monitoring Point 21

Leachate chemical composition and height, DW3 as depicted in figure 3.1 in the Landfill Closure Plan, April 1999 - by Egis Consulting Australia Pty Ltd

Pollutant	Unit of measure	No. of samples required	No. of samples collected and analysed	Lowest sample value	Mean of sample	Highest sample value
Alkalinity (as calcium carbonate)	milligrams per litre	4	4	1400	1725	2000
BOD	milligrams per litre	4	1	20	20	20
Cadmium	milligrams per litre	1	4	<0.0002	0.011	0.042
Calcium	milligrams per litre	4	4	150	203	270
Chloride	milligrams per litre	4	4	580	1138	1700
Chromium	milligrams per litre	1	4	0.01	0.012	0.013
Conductivity	microsiemens per centimetre	4	4	-270	-190	-34.6
Copper	milligrams per litre	1	4	<0.001	<0.001	<0.001
Fluoride	milligrams per litre	1	4	0.6	1.5	2.4
Iron	milligrams per litre	1	1	<0.01	<0.01	<0.01
Lead	milligrams per litre	1	4	<0.001	<0.001	<0.001
Magnesium	milligrams per litre	4	1	88	88	88
Manganese	milligrams per litre	1	1	0.37	0.37	0.37
Nitrogen	milligrams per litre	4	4	2.42	143.105	220
Nitrogen (ammonia)	milligrams per litre	4	4	1807	193	210
pH	pH	4	4	7.17	7.23	7.3
Phosphorus (total)	milligrams per litre	1	2	1	1.05	1.1
Potassium	milligrams per litre	4	4	200	243	310
Redox potential	millivolts	4	4	-270	-189.7	-34.6

Sodium	milligrams per litre	4	4	470	633	880
Standing Water Level	metres	4	4	7.65	8.06	8.88
Sulfate	milligrams per litre	4	4	<2	114	340
Temperature	degrees Celsius	4	4	35.2	37.75	40.7
Total dissolved solids	milligrams per litre	4	1	3200	3200	3200
Total Kjeldahl Nitrogen	milligrams per litre	4	4	1.5	143	220
Total organic carbon	milligrams per litre	4	1	250	250	250
Total Phenolics	milligrams per litre	1	1	<50	<50	<50
Total suspended solids	milligrams per litre	4	1	10	10	10
Zinc	milligrams per litre	1	4	<0.005	0.007	0.01

Discharge & Monitoring Point 23

Discharge to air; air emissions monitoring, Stack serving Batch Kiln No 3 as shown on drawing No. HP0100-G001a submitted to the EPA on 7 October 2014

Pollutant	Unit of measure	No. of samples required	No. of samples collected and analysed	Lowest sample value	Mean of sample	Highest sample value
Hydrogen fluoride	milligrams per cubic metre	1	0	0	0	0
Nitrogen Oxides	milligrams per cubic metre	1	0	0	0	0
Total Solid Particles	milligrams per cubic metre	1	0	0	0	0

Discharge & Monitoring Point 24

Discharge to air; air emissions monitoring, Stack serving No2 kiln is located at the co-ordinates specified in an email from the licensee dated 3 July 2012. The co-ordinates are 298734 E and 6254630 N.

Pollutant	Unit of measure	No. of samples required	No. of samples collected and analysed	Lowest sample value	Mean of sample	Highest sample value
Hydrogen fluoride	milligrams per cubic metre	1	0	0	0	0

Nitrogen Oxides	milligrams per cubic metre	1	0	0	0	0
Total Solid Particles	milligrams per cubic metre	1	0	0	0	0

Discharge & Monitoring Point 25

Discharge to air; air emissions monitoring, The exhaust stack serving batch kiln No 1. as shown on CSR's drawing No. HP1400G002A dated 10-7-07 issue 1 revision A submitted to the EPA on 2 September 2008.

Pollutant	Unit of measure	No. of samples required	No. of samples collected and analysed	Lowest sample value	Mean of sample	Highest sample value
Hydrogen fluoride	milligrams per cubic metre	1	0	0	0	0
Nitrogen Oxides	milligrams per cubic metre	1	0	0	0	0
Total Solid Particles	milligrams per cubic metre	1	0	0	0	0

Discharge & Monitoring Point 27

Discharge and monitoring point from the sediment dam., The position of the discharge & monitoring point is via the pipe serving the sediment dam located at grid reference 298619, 6254832 , supplied by the licensee on 29 March 2010.

Pollutant	Unit of measure	No. of samples required	No. of samples collected and analysed	Lowest sample value	Mean of sample	Highest sample value
Conductivity	millisiemens per centimetre	43	43	94.3	712	4830
pH	-	43	43	7.4	7.9	9.6
TSS	milligrams per litre	43	43	10	4281	15900
Turbidity	milligrams per litre	43	43	16	5442	22000

Discharge & Monitoring Point 28

Overflow discharge and monitoring point from the sediment dam., The overflow discharge and monitoring point serving the sediment dam is located at grid reference 298590, 6254829 provided by the licensee on 29 March 2010

Pollutant	Unit of measure	No. of samples required	No. of samples collected and analysed	Lowest sample value	Mean of sample	Highest sample value
Conductivity	millisiemens per centimetre	0	0	0	0	0
pH	-	0	0	0	0	0
TSS	milligrams per litre	0	0	0	0	0
Turbidity	milligrams per litre	0	0	0	0	0

Discharge & Monitoring Point 29

Discharge to air; air emissions monitoring, Stack serving Bricesco Trial Kiln, located at the MGA coordinates specified in the licence variation application received by the EPA on 7 August 2013. The coordinates are 298716E and 6254595N.

Pollutant	Unit of measure	No. of samples required	No. of samples collected and analysed	Lowest sample value	Mean of sample	Highest sample value
Hydrogen fluoride	milligrams per cubic metre	1	0	0	0	0
Nitrogen Oxides	milligrams per cubic metre	1	0	0	0	0
Total Solid Particles	milligrams per cubic metre	1	0	0	0	0

Discharge & Monitoring Point 30

Discharge to air; air emissions monitoring, Stack serving Batch Kiln No 4 as shown on drawing No. HP0100-G001a submitted to the EPA on 7 October 2014

Pollutant	Unit of measure	No. of samples required	No. of samples collected and analysed	Lowest sample value	Mean of sample	Highest sample value
Hydrogen fluoride	milligrams per cubic metre	1	0	0	0	0
Nitrogen Oxides	milligrams per cubic metre	1	0	0	0	0
Total Solid Particles	milligrams per cubic metre	1	0	0	0	0

Discharge & Monitoring Point 31

Overflow discharge and monitoring location, The overflow discharge and monitoring point serving Dam 7, located at E 298513 N 6254658. Refer to email from PGH on 20 April 2020 (DOC19/938854-4)

Pollutant	Unit of measure	No. of samples required	No. of samples collected and analysed	Lowest sample value	Mean of sample	Highest sample value
Conductivity	millisiemens per centimetre	0	0	0	0	0
pH	-	0	0	0	0	0
TSS	milligrams per litre	0	0	0	0	0
Turbidity	milligrams per litre	0	0	0	0	0

Concentration Monitoring Comments

The factory was closed and demolished during the 2020-21 annual return period and hence no annual stack emission testing was scheduled for monitoring points #23, 24, 25, 29 and 30.