



water & sanitation

Department
Water and Sanitation
REPUBLIC OF SOUTH AFRICA

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AMENDMENT LICENCE IN TERMS OF SECTION 50 OF THE
NATIONAL WATER ACT, 1998 (ACT NO 36 OF 1998)

I, Mbulelo Tshangana, in my capacity as Acting Director-General in the Department of
Water and Sanitation and acting under authority of the powers delegated to me by the
Minister of Human Settlements, Water and Sanitation, hereby authorises the amendment of
licence: Assmang (Pty) Ltd: Beeshoek Iron Ore Mine, dated 21 August 2018, licence no:
10/D73A/ABGJ/2592.

SIGNED: [Signature]
DATE: 19/11/2019

The above mentioned licence is amended as follows:

Amendment of condition 2.1 of Appendix IV

- 1. Condition 2.1 of the licence is hereby amended-
a. by the substitution in condition 2.1 of the following condition:
"2.1. The Licensee is authorised to dispose of a maximum quantity in cubic metres
(m³) of tons of waste or water containing waste into the waste management
facilities on the properties described in Table 4.
b. by the substitution in condition 2.1 for Table 4 with the following Table:

Table 4: Summary of section 21 (g) water uses

Table with 5 columns: Water use(s), Purpose/Description, Property Description, Capacity, Dimensions & Volume (m³/annum, m³&tons/annum), Co-ordinates. It contains two rows of data regarding waste disposal at Beesthoek Farm 448.

Water use(s)	Purpose/ Description	Property Description	Capacity, Dimensions & Volume (m <sup>3</sup> /annum, m <sup>3</sup> &tons/an num)	Co-ordinates
stockpiled Area	- South Detrital stockpiled Area	Farm Olynfontein 475		23 <sup>0</sup> 00' 50.2"E
Waste Rock Dump North/stockpile s	Waste disposal - Waste Rock Dump North/stockpile s	Portion 1 of Beesthoek Farm 448	7 000 000 <b>[tons]tonnes</b> /annum	28 <sup>0</sup> 17' 43.93"S 23 <sup>0</sup> 00' 36.85"E
Jig Discard Dump/Stockpil es	Waste disposal - Jig Discard Dump/Stockpil es	Portion 1 of Beesthoek Farm 448	9 000 000 <b>[tons]tonnes</b> /annum	28 <sup>0</sup> 17' 16.38"S 23 <sup>0</sup> 00' 23.44"E
East Pit Waste Rock Dump stockpiles	Waste disposal - East Pit Waste Rock Dump stockpiles	Portion 4 of Farm Olynfontein 475	68 850 000 <b>[tons]tonnes</b> /annum	28 <sup>0</sup> 20' 17.916"S 23 <sup>0</sup> 00' 10.965"E
South Contaminated ROM 1 Off grade waste dump 1	Waste disposal - South Contaminated ROM 1 Off grade waste dump 1	Portion 4 of Farm Olynfontein 475	4 450 000 t/a	28 <sup>0</sup> 19' 1.48"S 22 <sup>0</sup> 59' 57.7"E
South Contaminated ROM 2 (including BIS) - Off grade waste dump 2	Waste disposal - South Contaminated ROM 2 (including BIS) - Off grade waste dump 2	Portion 4 of Farm Olynfontein 475	1 920 000 t/a	28 <sup>0</sup> 19' 17.63"S 23 <sup>0</sup> 00' 08.74"E
South Off grade ROM 1 - Off grade waste dump 3	Waste disposal - South Off grade ROM 1 - Off grade waste dump 3	Portion 0 of Beesthoek Farm 448	2 508 000 t/a	28 <sup>0</sup> 18' 54.49"S 23 <sup>0</sup> 00' 19.72"E

Water use(s)	Purpose/ Description	Property Description	Capacity, Dimensions & Volume (m <sup>3</sup> /annum, m <sup>3</sup> &tons/an num)	Co-ordinates
Disposal of contaminated water	Disposal of contaminated water into Dam D86	Portion 1 of Beesthoek Farm 448	7 421 078 m <sup>3</sup> /a 269 m <sup>3</sup>	28° 17' 08.068"S 23° 00' 15.131"E
Disposal of contaminated water	Disposal of contaminated water into South Evaporation Ponds	Portion 0 of Beesthoek Farm 448	1 221 m <sup>3</sup> /a 1 600 m <sup>3</sup>	28° 18' 48.5"S 23° 00' 11.0"E
Village Waste Rock Dump/stockpiles	Waste disposal - Village Waste Rock Dump/stockpiles	Portion 0 of Beesthoek Farm 448	31 500 000 <u>[tons]tonnes /annum</u>	28° 18' 21.630"S 22° 59' 26.890"E
ROM Stockpile	Waste disposal - ROM Stockpile	Portion 0 of Beesthoek Farm 448	720 000 <u>[tons]tonnes /annum</u>	28° 18' 55.383"S 23° 00' 02.324"E
HH Pit Waste Rock Dump/ Stockpiles	Waste disposal - HH Pit Waste Rock Dump/ Stockpiles	Portion 1 of Beesthoek Farm 448	6 800 000 <u>[tons]tonnes /annum</u>	28° 16' 47.08"S 23° 01' 21.81"E
North ROM Stockpile	Waste disposal - North ROM Stockpile	Portion 1 of Beesthoek Farm 448	1 400 000 <u>[tons]tonnes /annum</u>	28° 16' 39.3"S 23° 00' 11.6"E
Disposal of contaminated water	Disposal of contaminated water into Fine Residue Dam	Portion 1 of Beesthoek Farm 448	4 864 520 m <sup>3</sup> /a	28° 16' 27.0"S 23° 00' 48.0"E
Plant Stockpile	Waste disposal - Plant Stockpile	Portion 1 of Beesthoek Farm 448	300 000 <u>[tons]tonnes /annum</u>	28° 17' 20.9"S 22° 59' 58.6"E
Dust suppression with dirty water	Dust Suppression of Haul roads (North – BN	Portion 1 of Beesthoek Farm 448	257 518 m <sup>3</sup> /a	Haul and main roads

Water use(s)	Purpose/ Description	Property Description	Capacity, Dimensions & Volume (m <sup>3</sup> /annum, m <sup>3</sup> &tons/an num)	Co-ordinates
	Truck filing point)			28° 16' 12.559"S 23° 00' 10.784"E
Dust suppression with dirty water	Dust Suppression of Haul roads (South – SM filing point)	Portion 0 of Beesthoek Farm 448	211 660 m <sup>3</sup> /a	Haul roads 28° 18' 49.821"S 22° 59' 54.705"E
Disposal of contaminated water	Disposal of contaminated water into Tank 26TK01A	Portion 1 of Beesthoek Farm 448	225 418 m <sup>3</sup> /a 100m <sup>3</sup>	28° 16' 45.7"S 22° 59' 56.8"E
Disposal of contaminated water	Disposal of contaminated water into Tank 26TK01B	Portion 1 of Beesthoek Farm 448	225 418 m <sup>3</sup> /a 100m <sup>3</sup>	28° 16' 45.775"S 22° 59' 56.844"E
Disposal of contaminated water	Disposal of contaminated water Thickener TH01 Dam	Portion 1 of Beesthoek Farm 448	7 522 316 m <sup>3</sup> /a 23 000m <sup>3</sup>	28° 17' 14.9"S 23° 00' 06.6"E
Disposal of contaminated water	Disposal of contaminated water into Clarifier Dam DD01	Portion 1 of Beesthoek Farm 448	6 657 912 m <sup>3</sup> /a 2 000m <sup>3</sup>	28° 17' 17.194"S 23° 00' 07.841"E
Disposal of contaminated water into Stormwater Dam North	Disposal of contaminated water into Stormwater Dam North	Portion 1 of Beesthoek Farm 448	76 700m <sup>3</sup> /a 15 000m <sup>3</sup>	28° 17' 30.63"S 22° 59' 46.48"E
Disposal of domestic effluent into sewage sumps	Disposal of domestic effluent into sewage sumps Portion 1	Portion 1 of Beesthoek Farm 448	512.5 m <sup>3</sup> /a	28° 17' 21.900"S 23° 00' 8.200"E

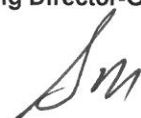
Water use(s)	Purpose/ Description	Property Description	Capacity, Dimensions & Volume (m <sup>3</sup> /annum, m <sup>3</sup> &tons/an num)	Co-ordinates
Disposal of domestic effluent into sewage sumps	Disposal of domestic effluent into sewage sumps Portion 1	Portion 1 of Beesthoek Farm 448		28° 17' 15.200"S 23° 00' 2.800"E
Disposal of domestic effluent into sewage sumps	Disposal of domestic effluent into sewage sumps Portion 1	Portion 1 of Beesthoek Farm 448		28° 17' 18.382"S 23° 00' 1.296"E
Disposal of domestic effluent into sewage sumps	Disposal of domestic effluent into sewage sumps Portion 1	Portion 1 of Beesthoek Farm 448		28° 17' 25.900"S 23° 00' 2.500"E
Disposal of domestic effluent into sewage sumps	Disposal of domestic effluent into sewage sumps Portion 1	Portion 1 of Beesthoek Farm 448		28° 17' 25.200"S 23° 00' 01.800"E
Disposal of domestic effluent into sewage sumps	Disposal of domestic effluent into sewage sumps Portion 1	Portion 1 of Beesthoek Farm 448		28° 17' 17.000"S 22° 59' 56.900"E
Disposal of domestic effluent into sewage sumps	Disposal of domestic effluent into sewage sumps Portion 1	Portion 1 of Beesthoek Farm 448		28° 17' 13.400"S 22° 59' 56.900"E
Disposal of domestic effluent into sewage sumps	Disposal of domestic effluent into sewage sumps Portion 1	Portion 1 of Beesthoek Farm 448		28° 17' 14.100"S 22° 59' 54.800"E
Disposal of	Disposal of	Portion 1 of		28° 17' 9.100"S



Water use(s)	Purpose/ Description	Property Description	Capacity, Dimensions & Volume (m <sup>3</sup> /annum, m <sup>3</sup> &tons/an num)	Co-ordinates
domestic effluent into sewage sumps	domestic effluent into sewage sumps Portion 1	Beesthoek Farm 448		22° 59' 56.100"E
Disposal of domestic effluent into sewage sumps	Disposal of domestic effluent into sewage sumps Portion 1	Portion 1 of Beesthoek Farm 448		28° 17' 6.700"S 22° 59' 54.700"E
Disposal of domestic effluent into sewage sumps	Disposal of domestic effluent into sewage sumps Portion 1	Portion 1 of Beesthoek Farm 448		28° 17' 4.000"S 22° 59' 56.100"E
Disposal of domestic effluent into sewage sumps	Disposal of domestic effluent into sewage sumps Portion 1	Portion 1 of Beesthoek Farm 448		28° 16' 57.800"S 22° 59' 57.100"E
Disposal of domestic effluent into sewage sumps	Disposal of domestic effluent into sewage sumps Portion 1	Portion 1 of Beesthoek Farm 448		28° 18' 30.800"S 23° 00' 22.000"E
Disposal of domestic effluent into sewage sumps	Disposal of domestic effluent into sewage sumps Portion 1	Portion 1 of Beesthoek Farm 448		28° 17' 31.100"S 22° 59' 57.400"E
Disposal of domestic effluent into sewage sumps	Disposal of domestic effluent into sewage sumps Portion 1	Portion 1 of Beesthoek Farm 448		28° 17' 30.879"S 22° 59' 59.288"E
Disposal of domestic	Disposal of domestic	Portion 1 of Beesthoek		28° 17' 32.025"S



Water use(s)	Purpose/ Description	Property Description	Capacity, Dimensions & Volume (m <sup>3</sup> /annum, m <sup>3</sup> &tons/an num)	Co-ordinates
effluent into sewage sumps	effluent into sewage sumps Portion 1	Farm 448		22 <sup>0</sup> 59' 59.401"E
Disposal of domestic effluent into sewage sumps	Disposal of domestic effluent into sewage sumps Portion 1	Portion 1 of Beesthoek Farm 448		28 <sup>0</sup> 17' 34.400"S 23 <sup>0</sup> 00' 2.000"E
Disposal of domestic effluent into sewage sumps	Disposal of domestic effluent into sewage sumps Portion 1	Portion 1 of Beesthoek Farm 448		28 <sup>0</sup> 17' 47.925"S 23 <sup>0</sup> 00' 06.115"E
Disposal of domestic effluent into sewage sumps	Disposal of domestic effluent into sewage sumps Portion 1	Portion 1 of Beesthoek Farm 448		28 <sup>0</sup> 17' 25.800"S 22 <sup>0</sup> 59' 48.600"E
Disposal of domestic effluent into sewage sumps	Disposal of domestic effluent into sewage sumps Portion 1	Portion 1 of Beesthoek Farm 448		28 <sup>0</sup> 17' 17.200"S 22 <sup>0</sup> 59' 45.600"E
Disposal of domestic effluent into sewage sumps	Disposal of domestic effluent into sewage sumps Portion 1	Portion 1 of Beesthoek Farm 448		28 <sup>0</sup> 17' 16.800"S 22 <sup>0</sup> 59' 46.600"E
Disposal of domestic effluent into sewage sumps	Disposal of domestic effluent into sewage sumps Portion 1	Portion 1 of Beesthoek Farm 448		28 <sup>0</sup> 17' 16.600"S 22 <sup>0</sup> 59' 46.800"E
Disposal of domestic effluent into	Disposal of domestic effluent into	Portion 1 of Beesthoek Farm 448		28 <sup>0</sup> 17' 28.600"S 22 <sup>0</sup> 59' 54.900"E



Water use(s)	Purpose/ Description	Property Description	Capacity, Dimensions & Volume (m <sup>3</sup> /annum, m <sup>3</sup> &tons/an num)	Co-ordinates
sewage sumps	sewage sumps Portion 1			
Disposal of domestic effluent into sewage sumps	Disposal of domestic effluent into sewage sumps Portion 1	Beesthoek Farm 448 Portion 1		28° 17' 26.200"S 22° 59' 53.600"E
Disposal of domestic effluent into sewage sumps	Disposal of domestic effluent into sewage sumps Portion 1	Portion 1 of Beesthoek Farm 448		28° 17' 32.400"S 22° 59' 52.800"E
Disposal of domestic effluent into sewage sumps	Disposal of domestic effluent into sewage sumps Portion 1	Portion 1 of Beesthoek Farm 448		28° 16' 59.500"S 22° 59' 40.100"E
Disposal of domestic effluent into sewage sumps	Disposal of domestic effluent into sewage sumps Security building Village	Portion 1 of Beesthoek Farm 448		28° 17' 29"S 22° 59' 52"E
Disposal of domestic effluent into sewage sumps	Disposal of domestic effluent into sewage sumps at Road Transport 2	Portion 1 of Beesthoek Farm 448		28° 16' 36.50"S 22° 59' 48.43"E
Disposal of domestic effluent into sewage sumps	Disposal of domestic effluent into sewage sumps Re	Portion 1 of Beesthoek Farm 448	498.5m <sup>3</sup> /a	28° 17' 20.659"S 23° 00' 6.814"E
Disposal of domestic	Disposal of domestic	Portion 0 of Beesthoek		28° 18' 29.716"S






Water use(s)	Purpose/ Description	Property Description	Capacity, Dimensions & Volume (m <sup>3</sup> /annum, m <sup>3</sup> &tons/an num)	Co-ordinates
effluent into sewage sumps	effluent into sewage sumps Re	Farm 448		23 <sup>0</sup> 00' 14.846"E
Disposal of domestic effluent into sewage sumps	Disposal of domestic effluent into sewage sumps Re	Portion 0 of Beesthoek Farm 448		28 <sup>0</sup> 18' 34.000"S 23 <sup>0</sup> 00' 18.500"E
Disposal of domestic effluent into sewage sumps	Disposal of domestic effluent into sewage sumps Re	Portion 0 of Beesthoek Farm 448		28 <sup>0</sup> 18' 39.600"S 23 <sup>0</sup> 00' 17.400"E
Disposal of domestic effluent into sewage sumps	Disposal of domestic effluent into sewage sumps Re	Portion 0 of Beesthoek Farm 448		28 <sup>0</sup> 18' 42.900"S 23 <sup>0</sup> 00' 16.500"E
Disposal of domestic effluent into sewage sumps	Disposal of domestic effluent into sewage sumps Re	Portion 0 of Beesthoek Farm 448		28 <sup>0</sup> 18' 46.200"S 22 <sup>0</sup> 59' 59.300"E
Disposal of domestic effluent into sewage sumps	Disposal of domestic effluent into sewage sumps Re	Portion 0 of Beesthoek Farm 448		28 <sup>0</sup> 15' 59.800"S 22 <sup>0</sup> 59' 25.800"E
Disposal of domestic effluent into sewage sumps	Disposal of domestic effluent into sewage sumps Re	Portion 0 of Beesthoek Farm 448		28 <sup>0</sup> 15' 58.800"S 22 <sup>0</sup> 59' 26.800"E
Disposal of domestic effluent into	Disposal of domestic effluent into	Portion 0 of Beesthoek Farm 448		28 <sup>0</sup> 16' 46.700"S 22 <sup>0</sup> 59' 40.100"E



Water use(s)	Purpose/ Description	Property Description	Capacity, Dimensions & Volume (m <sup>3</sup> /annum, m <sup>3</sup> &tons/an num)	Co-ordinates
sewage sumps	sewage sumps Re			
Disposal of domestic effluent into sewage sumps	Disposal of domestic effluent into sewage sumps at Road Transport 1	Portion 0 of Beesthoek Farm 448		28° 16' 34.61"S 22° 59' 44.00"E
Disposal of domestic effluent into sewage sumps	Disposal of domestic effluent into sewage sumps at Road Transport 3	Portion 0 of Beesthoek Farm 448		28° 16' 36.06"S 22° 59' 46.43"E
Disposal of domestic effluent into sewage sumps	Disposal of domestic effluent into sewage sumps at Long distance parking	Portion 0 of Beesthoek Farm 448		28° 16' 46.00"S 22° 59' 39.00"E
Disposal of domestic effluent into sewage sumps	Disposal of domestic effluent into sewage sumps Conservancy Tank at South Change House	Portion 0 of Beesthoek Farm 448		28° 18' 34.00"S 23° 00' 15.00"E
Backfilling of BN opencast pit using Waste Dump Rock Materials	Disposal of waste - Backfilling of BN opencast pit using Waste Dump Rock Materials	Portion 1 of Beesthoek Farm 448	1 625 221 t/a	28° 16' 13.9"S 23° 00' 17.2"E
Backfilling of East Pit using	Disposal of waste -	Portion 4 of Farm	2 119 897 t/a	28° 20' 31.2"S



Water use(s)	Purpose/ Description	Property Description	Capacity, Dimensions & Volume (m <sup>3</sup> /annum, m <sup>3</sup> &tons/an num)	Co-ordinates
Waste Dump Rock Materials	Backfilling of East Pit using Waste Dump Rock Materials	Olynfontein 475		22° 59' 37.7"E
Backfilling of GK opencast pit using Waste Dump Rock Materials	Disposal of waste - Backfilling of GK opencast pit using Waste Dump Rock Materials	Portion 1 of Beesthoek Farm 448	1 468 839 t/a	28° 18' 23.4"S 23° 01' 09.6"E
Backfilling of opencast HH Pit using Waste Dump Rock Materials	Disposal of waste - Backfilling of opencast HH Pit using Waste Dump Rock Materials	Portion 1 of Beesthoek Farm 448	459 860 t/a	28° 16' 43.7"S 23° 01' 20.2"E
Backfilling of HL Opencast Pit using Waste Dump Rock Materials	Disposal of waste - Backfilling of HL Opencast Pit using Waste Dump Rock Materials	Portion 1 of Beesthoek Farm 448	2 212 010 t/a	28° 17' 21.6"S 23° 00' 55.6"E
Backfilling of Detrital area opencast pit using Waste Dump Rock Materials	Disposal of waste - Backfilling of Detrital area opencast pit using Waste Dump Rock Materials	Portion 4 of Farm Olynfontein 475	1 224 840 t/a	28° 19' 40.3"S 23° 00' 29.8"E
Backfilling of West opencast Pit using Waste Dump	Disposal of waste - Backfilling of West opencast Pit using	Portion 4 of Farm Olynfontein 475	10 536 114 t/a	28° 19' 18.6"S 22° 59' 30.8"E



Water use(s)	Purpose/ Description	Property Description	Capacity, Dimensions & Volume (m <sup>3</sup> /annum, m <sup>3</sup> &tons/an num)	Co-ordinates
Rock Materials	Waste Dump Rock Materials			
South ROM Stockpile 2	Disposal of waste - South ROM Stockpile 2	Portion 4 of Farm Olynfontein 475	1 000 000 [tons]tonnes /annum	28 <sup>0</sup> 18' 54.900"S 22 <sup>0</sup> 59' 25.880"E
S Offgrade ROM 2	Disposal of waste - S Offgrade ROM 2	Portion 0 of Beesthoek Farm 448	1 000 000 [tons]tonnes /annum	28 <sup>0</sup> 18' 40.230"S 22 <sup>0</sup> 59' 48.080"E
N Offgrade ROM 1	Disposal of waste - N Offgrade ROM 1	Portion 1 of Beesthoek Farm 448	1 000 000 [tons]tonnes /annum	28 <sup>0</sup> 17' 33.46"S 23 <sup>0</sup> 00' 22.67"E
BIS ROM North 1- Stockpiles being reworked further	Disposal of waste - BIS ROM North 1- Stockpiles being reworked further	Portion 1 of Beesthoek Farm 448	2 950 000 tons (current capacity, no new depositions)	28 <sup>0</sup> 17' 40.35"S 23 <sup>0</sup> 00' 53.51"E
BIS ROM North 2- Stockpiles	Disposal of waste - BIS ROM North 2- Stockpiles	Portion 1 of Beesthoek Farm 448	3 150 000 [tons]tonnes /annum	28 <sup>0</sup> 16' 57.23"S 23 <sup>0</sup> 01' 05.97"E
Shale Stockpiles being reworked further	Disposal of waste - Shale Stockpiles being reworked further	Portion 1 of Beesthoek Farm 448	361 633 tons (current capacity, no new depositions)	28 <sup>0</sup> 16' 34.66"S 23 <sup>0</sup> 00' 04.95"E
Quartzite Stockpiles being reworked further	Disposal of waste - Quartzite Stockpiles being	Portion 1 of Beesthoek Farm 448	1 668 163 tons (current capacity, no new depositions)	28 <sup>0</sup> 16' 46.03"S 23 <sup>0</sup> 00' 12.39"E

Water use(s)	Purpose/ Description	Property Description	Capacity, Dimensions & Volume (m <sup>3</sup> /annum, m <sup>3</sup> &tons/an num)	Co-ordinates
	reworked further			
West Pit Waste Rock Dump/stockpiles	Disposal of waste - West Pit Waste Rock Dump/stockpiles	Portion 4 of Farm Olynfontein 475	21 413 403 [tons]tonnes /annum	28° 19' 25.69"S 22°59' 46.02"E
HL Waste Rock Dump/stockpiles	Disposal of waste - HL Waste Rock Dump/stockpiles	Portion 1 of Beesthoek Farm 448	10 983 334 [tons]tonnes /annum	28° 17' 07.01"S 23°01' 08.32"E
GF Waste Rock Dump/stockpiles	Disposal of waste - GF Waste Rock Dump/stockpiles	Portion 1 of Beesthoek Farm 448	7 721 766 [tons]tonnes /annum	28° 17' 3.12"S 23°00' 38.58"E
Landfill site	Landfill site	Portion 0 of Beesthoek farm 448	500 000 [tons]tonnes /annum	28° 16' 39.725"S 22°59' 40.088"E
Disposal of domestic effluent into sewage sumps	Disposal of domestic effluent into sewage sump at Laundry facility North mine	Portion 0 of Beesthoek Farm 448	163 m <sup>3</sup> 30 000m <sup>3</sup> /a	28° 16' 59.53"S 22°59' 56.35"E

[END OF LICENCE AMENDMENT]