Water Use Projections: Scenario 11
Date: 2009-09-29
Numbers in Mm^3/a

er for Off-t	Project	Description of Use	Demand centre (Lephalale or Steenbokpan)	Year / Month	Annual Totals	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050
A) Power Generation																																																	
Eskom	Matimba	Matimba	Lephalale			3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6
Eskom	Medupi	Medupi	Lephalale			0.7	0.6	0.7	2.2	4.2	5.8	6.0	6.8	8.4	9.9	11.5	13.1	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0
Eskom	CF3	CF3	Steenbokpan						0.1	0.4	0.3	0.6	0.7	3.5	6.7	10.2	13.6	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0
Eskom	CF4	CF4	Steenbokpan																																													
IPP	IPP	IPP1	Lephalale							0.2	0.2	0.3	0.5	2.2	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9
IPP	IPP	IPP2	Lephalale							0.2	0.2	0.3	0.5	2.2	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9
IPP	IPP	IPP3	Lephalale							0.2	0.2	0.3	0.5	2.2	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9
IPP	IPP	IPP4	Lephalale							0.2	0.2	0.3	0.5	2.2	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9
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B) Coal Mining for Power Generation																																																
Exxaro	Matimba	Matimba	Lephalale			2.6	2.6	2.6	2.7	2.7	2.8	3.4	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6
Exxaro	Medupi	Medupi	Lephalale			0.0	0.1	0.1	0.9	1.5	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
Eskom	CF3	CF3	Lephalale						0.2	1.3	2.4	2.8	3.0	4.2	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
Eskom	CF4	CF4	Lephalale																																													
Exxaro	IPP	IPP1	Lephalale							0.1	0.2	0.4	1.6	2.7	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
Sekoko	IPP	IPP2	Lephalale							0.1	0.2	0.4	1.6	2.7	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
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C) Mining Projects Other																																																
Exxaro	Exxaro	Project A	Lephalale			0.2	0.3	0.4	0.4	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.624	0.624	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
Exxaro	Exxaro	Project C	Lephalale							0.1	0.2	1.3	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.500	1.500	1.500	1.500	1.500	1.500	1.500	1.500	1.500	1.500	1.500	1.500	1.500	1.500	1.500	1.500	1.500	1.500	1.500	1.500	1.500	1.500	1.500	1.500	1.500	1.500
Exxaro	Exxaro	Project D	Lephalale										0.1	0.2	1.2	1.3	1.3	1.3	1.3	1.3	1.3	1.320	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
Exxaro	Exxaro	Project F	Lephalale							0.0	0.2	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.360	0.360	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
Exxaro	Exxaro	Project G	Lephalale						0.0	0.1	0.2	0.6	0.7	0.7	0.7	0.7	0.7	0.7	0.66	0.66	0.66	0.66	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
Exxaro	Exxaro	Project I	Lephalale									0.0	0.1	0.8	1.0	1.2	1.2	1.2	1.2	1.2	1.2	1.20	1.20	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
Exxaro	Exxaro	Project J	Steenbokpan									0.0	0.1	0.5	0.7	1.1	1.1	1.1	1.1	1.1	1.1	1.128	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
Sekoko	Sekoko	Export Coal	Lephalale							0.1	0.2	0.7	0.9	1.9	2.4	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
ResGen	Resgen	Export Coal	Steenbokpan									0.7	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
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E) Sasol																																																
Sasol	Mafutha 1	Mafutha 1 CTL Constru	Steenbokpan							0.7	1.7	1.8	1.9	1.2	0.7																																	
Sasol	Mafutha 1	Mafutha 1 CTL Product	Steenbokpan									3.1	9.3	12.3	29.3	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0
Sasol	Mafutha 1	Mafutha 1 Mine	Steenbokpan							2.0	4.0	4.2	4.3	6.2	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5
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I) Domestic, Light Industrial, Educational, Commercial																																																
Municipal	Matimba	Current Households (in	Lephalale			4.06	4.02	3.94	3.86	3.78	3.69	3.60	3.51	3.42	3.32	3.28	3.32	3.35	3.38	3.38	3.45	3.49	3.49	3.49	3.49	3.49	3.49	3.49	3.49	3.49	3.49	3.49	3.49	3.49	3.49	3.49	3.49	3.49	3.49	3.49	3.49	3.49	3.49	3.49	3.49	3.49	3.49
Municipal	Medupi	Mine for Medupi	Lephalale			0.01	0.04	0.03	0.36	0.57	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86
Municipal	CF3	Mine CF3	Lephalale						0.03	0.22	0.41	0.48	0.51	0.71	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86
Municipal	CF4	Mine CF4	Steenbokpan																																													
Municipal	IPP	Mines for IPP's	Lephalale							0.02	0.05	0.11	0.47	0.83	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86
Municipal	Exxaro	Project A	Lephalale			0.15	0.23	0.25	0.28	0.42	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43
Municipal	Exxaro	Project C	Lephalale						0.03	0.05	0.36	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43
Municipal	Exxaro	Project D	Lephalale										0.04	0.06	0.38	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43
Municipal	Exxaro	Project E	Lephalale							0.01	0.03	0.05	0.24	0.41	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43
Municipal	Exxaro	Project F	Lephalale							0.02	0.19	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43
Municipal	Exxaro	Project G	Lephalale						0.03	0.08	0.13	0.38	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43
Municipal	Exxaro	Project I	Lephalale									0.01	0.03	0.28	0.35	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43
Municipal	Exxaro	Project J	Steenbokpan									0.02	0.04	0.18	0.28	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43
Municipal	Medupi	Medupi PS	Lephalale			1.28	1.40	1.00	0.88	0.89	0.85	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27
Municipal	CF3	CF3 PS	Lephalale						0.13	0.76	1.40	1.38	0.93	0.89	0.88	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27
Municipal	CF4	CF4 PS	Lephalale																																													
Municipal	IPP	IPP PS	Lephalale						0.06	0.60	1.36	1.40	0.93	0.89	0.89	0.71	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27
Municipal	Mafutha 1	Mafutha 1 Town	Steenbokpan							0.64	1.29	1.29	1.93	2.57	3.86	4.82	5.47	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43
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Scenario 11						**12.7**	**13.0**	**12.6**	**15.7**	**26.4**	**36.3**	**45.0**	**58.4**	**81.1**	**114.1**	**128.1**	**133.2**	**136.6**	**136.6**	**136.6**	**136.7**	**136.7**	**136.7**	**136.7**	**136.7**	**136.7**	**136.7**	**136.7**	**136.7**	**136.7**	**136.7**	**136.7**	**136.7**	**136.7**	**136.7**	**136.7**	**136.7**	**136.7**	**136.7**	**136.7**	**136.7**	**136.7**	**136.7**	**136.7**	**136.7**	**136.7**	**136.7**	**136.7**	**136.7**
Irrigation use						10.4	10.4	10.4	10.4	10.4	10.4	10.4	10.4	10.4	10.4	10.4	10.4	10.4	10.4	10.4	10.4	10.4	10.4	10.4	10.4	10.4	10.4	10.4	10.4	10.4	10.4	10.4	10.4	10.4	10.4	10.4	10.4	10.4	10.4	10.4	10.4	10.4	10.4	10.4	10.4	10.4	10.4
Total - Scenario 11 including irrigation						**23.1**	**23.4**	**23.0**	**26.1**	**36.8**	**46.7**	**55.4**	**68.8**	**91.5**	**124.5**	**138.5**	**143.6**	**147.0**	**147.0**	**147.0**	**147.1**	**147.1**	**147.1**	**147.1**	**147.1**	**147.1**	**147.1**	**147.1**	**147.1**	**147.1**	**147.1**	**147.1**	**147.1**	**147.1**	**147.1**	**147.1**	**147.1**	**147.1**	**147.1**	**147.1**	**147.1**	**147.1**	**147.1**	**147.1**	**147.1**	**147.1**	**147.1**	**147.1**
		Return Flows										5.5	5.7	6.5	7.5	7.7	7.8	8.3	8.3	8.3	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4
		Mokolo Dam				39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1
		Volume to be Transferred							**-13.0**	**-2.3**	**7.6**	**10.8**	**24.0**	**45.8**	**77.9**	**91.7**	**96.7**	**99.6**	**99.6**	**99.6**	**99.6**	**99.6**	**99.7**	**99.7**	**99.7**	**99.7**	**99.7**	**99.7**	**99.7**	**99.7**	**99.7**	**99.7**	**99.7**	**99.7**	**99.7**	**99.7**	**99.7**	**99.7**	**99.7**	**99.7**	**99.7**	**99.7**	**99.7**	**99.7**	**99.7**	**99.7**	**99.7**	**99.7**