

Addendum to the Transport Impact Assessment for the Greenfields and Koppie Development, Postmasburg

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1. INTRODUCTION

After completion of the Transport Impact Assessment for the Greenfields and Koppie developments in Postmasburg, amendments were made to the township layout plan for the developments.

The purpose of this addendum is to address the impact of the changes in the layout plans.

The two updated township layout plans (Urban Dynamics Drawings: PosMas_Greenfields D7/2017.05.24 and MountainView-Lay D4/2017.05.25) are attached at the end of this addendum (**Figure 1** & **Figure 2**).

2. LAND USE

The proposed amended land use for the Greenfields development is summarised in **Table 1** below. Refer to **Figure 1** for the development plan.

Table 1: Amended Land use for the Proposed Greenfields Development

No	Zoning	Land Use	Extent	Units
1	Multilevel Townhouses	Subsidised Housing	2158	Dwelling units
2	Business	Business Premises	10870	m² GLA
		Primary School	1100	Pupils
3	Place of Instruction	Secondary School	1200	Pupils
		Creche	7018	Pupils
4	Institution	Church	800	Seats
4	เมอนเนนอา	Clinic	250	m² GLA

The proposed amended land use for the Koppie development is summarised in **Table 2** below. Refer to **Figure 2** for the development plan. (The proposed development is referred to as "Mountain View" on this development plan)

Table 2: Amended Land use for the Proposed Koppie Development

No	Zoning	Land Use	Extent	Units	
1	Multilevel Townhouses	Subsidised Housing	2600	Dwelling units	
2	Business Premises		16418	m² GLA	
		Primary School	1100	Pupils	
3	Place of Instruction	Secondary School	1200	Pupils	
		Creche	5248	Pupils	
4	Inatitution	Church	600	Seats	
4	Institution	Clinic	300	m² GLA	

3. TRIP GENERATION

The expected trip generation for the proposed developments is summarised in **Tables 3**, **4**, **5** and **6** below.

Table 3: Amended Trip Generation for the Proposed Greenfields Development for the weekday AM Peak Hour

Land Hea	Fortage 110	Trip Rate	Trip	Directional Split		In the last	0 - 4 (l)	Total	
Land Use	Extent	Units	(vph/unit)	Adjustment factor	In		In (vph)	Out (vph)	trips (vph)
Residential	2158	units	0.75	0.70	25%	75%	283	850	1133
Business Premises	10870	m²	1.50	0.80	85%	15%	111	20	130
Primary School	1100	pupils	0.85	0.35	50%	50%	164	164	327
Secondary School	1200	pupils	0.75	0.35	50%	50%	158	158	315
Clinic	7018	m²	6.00	0.50	60%	40%	126	84	211
Church	800	seat	0.05	0.45	55%	45%	10	8	18
Creche	250	pupils	1.00	0.48	50%	50%	59	59	119
Total									2253

Table 4: Amended Trip Generation for the Proposed Greenfields Development for the weekday PM Peak Hour

Land Use	and Use Extent Units	Units Trip Rate	Trip Adjustment	Directional Split		In (vph)	Out (vph)	Total trips	
			(vph/unit)	factor	In	Out			(vph)
Residential	2158	units	0.75	0.70	70%	30%	793	340	1133
Business Premises	10870	m²	1.50	0.80	20%	80%	26	104	130
Primary School	1100	pupils	0.30	0.35	50%	50%	58	58	116
Secondary School	1200	pupils	0.25	0.35	50%	50%	53	53	105
Clinic	7018	m²	6.00	0.50	40%	60%	84	126	211
Church	800	seat	0.05	0.45	50%	50%	9	9	18
Creche	250	pupils	0.80	0.48	50%	50%	48	48	95
Total							1070	737	1807

Table 5: Amended Trip Generation for the Proposed Koppie Development for the weekday AM Peak Hour

Land Use	Extent Units	Units Trip Rate	Trip Adjustment	Directional Split		In (vph)	Out (vph)	Total trips	
			(vph/unit)	factor	In	Out	((· - · · ·)	(vph)
Residential	2600	units	0.75	0.70	25%	75%	341	1024	1365
Business Premises	16418	m² GLA	1.50	0.80	85%	15%	167	30	197
Primary School	1100	pupils	0.85	0.35	50%	50%	164	164	327
Secondary School	1200	pupils	0.75	0.35	50%	50%	158	158	315
Clinic	5248	m² GLA	6.00	0.50	60%	40%	94	63	157
Church	600	seat	0.05	0.45	55%	45%	7	6	14
Creche	300	pupils	1.00	0.48	50%	50%	71	71	143
Total								1515	2518

Table 6: Amended Trip Generation for the Proposed Koppie Development for the weekday PM Peak Hour

Land Use	Extent Units	Units	Units Trip Rate	Trip Adjustment	Directional Split		In (vph)	Out (vph)	Total trips
24114 000	ZXOII		(vph/unit)	/unit) factor In Out	out (vp)	(vph)			
Residential	2600	units	0.75	0.70	70%	30%	956	410	1365
Business Premises	16418	m² GLA	1.50	0.80	20%	80%	39	158	197
Primary School	1100	pupils	0.30	0.35	50%	50%	58	58	116
Secondary School	1200	pupils	0.25	0.35	50%	50%	53	53	105
Clinic	5248	m² GLA	6.00	0.50	40%	60%	63	94	157
Church	600	seat	0.05	0.45	50%	50%	7	7	14
Creche	300	pupils	0.80	0.48	50%	50%	57	57	114
Total							1232	836	2067

The amended trip generation for the proposed developments was calculated using the same methodology as described in paragraph 7 of the Transport Impact Assessment dated May 2017.

From the above tables it can be seen that the amended township lay out plans result in 4.4% - 8.4% fewer trips expected to be generated by the developments than the expected trip generation in the Transport Impact Assessment dated May 2017. The change in the expected trips generated is therefore not significant.

4. CAPACITY ANALYSIS

As the change in the expected trips generated by the proposed developments is not significant, no new capacity analysis was performed. All results and recommendations made in the Transport Impact Assessment dated May 2017 are still valid.

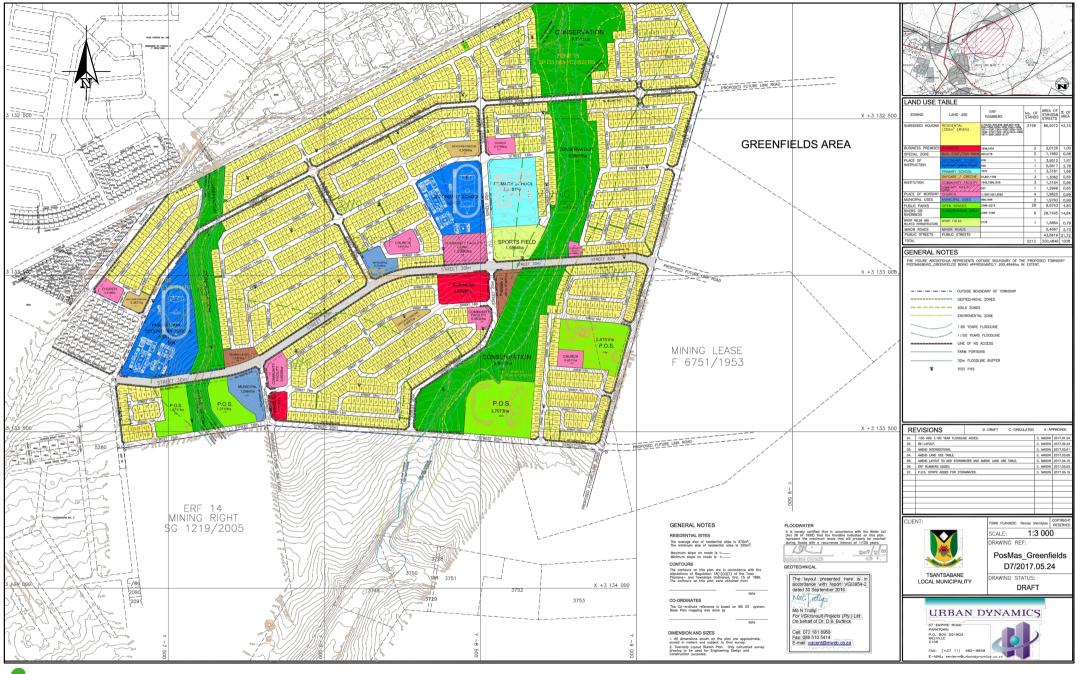




FIGURE:

NUMBER:





FIGURE: