

PROPOSED ESKOM STEELPOORT PUMP STORAGE SCHEME

DRAFT TOURISM ENVIRONMENTAL IMPACT ASSESSMENT

BOHLWEKI ENVIRONMENTAL

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Date: January 2007

Client: Bohlweki Environmental

Title: Tourism Impact Assessment Report
Proposed Pump Storage Scheme, Project Lima

prepared by: SiVEST

Table of Contents

1		INT	RODU	CTION	3
2		ME	THOD	DLOGY	3
	2.	1	Assu	JMPTIONS AND LIMITATIONS	3
3		BAG	CKGRO	DUND	3
	3.	1	Acts	AND POLICIES	3
	3.2	2	THE	SITE IN CONTEXT	4
	3.	3	Tour	RISM IN AND AROUND STEELPOORT	4
		3.3	3.1	Tourism Trends and Land Use	4
		3.3	3.2	Tourism Supply	4
	3.4	4	Tour	RISM DEMAND	6
		3.4	.1	Business Tourism	6
		3.4	.2	Leisure Tourism	6
		3.4	.3	Educational Tourism	7
4		Ро	TENTI	AL IMPACT OF THE PUMP STORAGE SCHEME ON TOURISM	7
	4.	1	IMPA	CT ASSESSMENT RELATING TO THE TOURISM INDUSTRY	7
	4.	2	SENS	SE OF PLACE IMPACT RELATIVE TO TOURISM	8
		4.2	2.1	Construction Phase	8
		4.2	2.2	Land Use Relative to Tourism	9
		4.2	2.3	Tourism growth and sustainability	1
5		CO	NCLUS	SIONS	13
۵		DE	~~\A\A	ENDATIONS	ı Q

1 INTRODUCTION

A Tourism Scoping Study was completed at the end of 2006 which was based on a overview

of the tourism industry in the area. The report formed part of a broader scoping process that

assisted in the identification of a preferred site for the proposed pump storage scheme.

Following the scoping study, it was important to gain a more detailed assessment of the

impact of the proposed development on the tourism industry in the area.

2 METHODOLOGY

Information was gathered about the tourism industry in the area of the development area

using the following methods:

Detailed site visit

Ad hoc interviews with various tourism facility operators in the area

Personal knowledge and application

Reference to other specialist reports as part of the EIA team.

2.1 Assumptions and Limitations

This report is not aimed at providing exhaustive tourism statistics for the Steelpoort area.

Rather, this report is aimed at providing the EIA team with sufficient information to

meaningfully inform the proposed development of a pump storage scheme and ancillary

facilities through the minimisation of negative environmental impacts, and optimisation of

positive environmental impacts on the tourism industry in the area.

The information in this report is limited to brief interviews with a handful of parties in the

tourism industry in the area, and also on the limited research that has already been

undertaken. We were not able to project quantifiable increases or decreases in the tourism

industry as a result of the proposed development.

3 BACKGROUND

3.1 Acts and Policies

Please refer to the Tourism Scoping Study for relevant legislation.

Client: Bohlweki Environmental

Title: Tourism Impact Assessment Report

Proposed Pump Storage Scheme, Project Lima

prepared by: SiVEST

Environmental Division

3.2 The site in context

The site is located within the Steelpoort Valley and the western plateau of this area of the

valley. The site is essentially surrounded by undisturbed vegetation in the valley and partially

disturbed grasslands in the upland/plateau area.

3.3 Tourism in and around Steelpoort

The area of the Steelpoort Valley in which the development is proposed to occur is largely

undiscovered as a tourism destination, but the potential is certainly there. The Mpumalanga

Tourism Authority has two tourism areas that meet roughly in the Steelpoort Valley. These

areas include the Cultural Heartland to the west and the Highlands Meander to the east. This

places the proposed development site close to an existing important toursm area namely the

Lydenburg trout fishing area which falls within the Highlands Meander area. Linkages to

existing toursm areas are important to the futue tourism growth in the area. The Kamoka

Open Africa Route is also an important tourism route which links well with the Cultural

Heartland area. Please refer to the Scoping Study for details of the tourism initiatives.

3.3.1 Tourism Trends and Land Use

The tourism industry in the Roosenekaal area is presently (and previously) dominated by the

business tourism sector due to the mining activities in the area. The land use of the area of

the Steelpoort Valley in the vicinty of the proposed development area is traditionally

agriculture with limited cultivation in the fertile areas adjacent to the Steelpoort River, and

cattle ranching in the other areas of the valley.

There are indictions that these land uses are changing to tourism related activities including

ecotourism, hunting and corporate team building.

3.3.2 Tourism Supply

The tourism facilities in the study area have been assessed in more detail than during the

scoping phase. The bulk of the tourism accommodation supply/tourism facilities are located

within the Roosenekal area. These guest lodges and bed and breakfasts are important to the

tourism in the area. The mining industry alone is filling these facilities throuought the year with

business tourists. The future of the tourism supply is likely to change with more emphasis on

ecotourism. hunting and corporate functions. These facilities are beginning to, and are likely

Client: Bohlweki Environmental

prepared by: SiVEST

Title: Tourism Impact Assessment Report

Environmental Division

Proposed Pump Storage Scheme, Project Lima

to continue to take advantage of the scenic beauty and biodiversity found in this area. The table below indicates the details of some of the major tourism establishments in the area:

Name of	Contact	Person Spoken			Average	
Establishment	Details	to	Type of Facility	Number	Occupancy Rates	Main Guests
				of Beds	(Percentage)	
Impangele Ikhaya	(013) 273 7142	Christa Struwig	Bush Camp with	18	60%	Groups of people i.e. local
			leisure activities			families, companies
			i.e. horse riding &			(for conferences
	4		hiking.			etc)
Pers Kombers	(013) 271 0174	Rykie van Rensburg	Restaurant, B&B & camping facility	12	60%	Local farmers & businessmen
La Ronel Guest House	083 655 3295	Irene du Preez	Guest House	12	75%	Mine contractors- mainly from the platinum mine.
Koringhuis	(013) 273 7100	Christine Jacobs	Full accommodation. Hall is present that can hold 85 - 100 people.	19	70% (Never empty)	Businessmen
Mapoch Hotel	(013) 273 0066	Anette	Hotel & Camp Site	24	50 - 55%	Mine contractors.
Gwala Gwala	(013) 245 1008	Tollie	Adventure Camp - used for teambuilding	120	60%	School children & teachers (i.e. on school field
	082 373		& outdoor training. Private Hunting			trips).
De Herbst Rust	0318	Braan Herbst	Lodge	10	Low	Local hunters
Bon Amanzi	082 904 3793	Wimpie Venter	Tourism, Teambuilding Camp/ecotourism	64	75 - 80%	Corporate groups
Kwanja	082 786 3737	I.N Venter	New Conference and Hunting Facility	60	80%	South African guests.
De Ou Skool Gastehuis	(013) 272 0042	Marli	New Guest House	8	Low (at the moment)	Businessmen

Client: Bohlweki Environmental

Title: Tourism Impact Assessment Report Proposed Pump Storage Scheme, Project Lima prepared by: SiVEST

Lapeng Guest House	083 611 6362	Fritz	Guest House	24	65%	Businessmen
Kumula Game Lodge		Charlene	Game Lodge	36-38	Weekdays - 100% Weekends - depends	Mining contractors & businessmen.
Megapa Game Lodge		Elize Cronje	Game Lodge	27	80%	Family groups, team building / conferences etc)
Vosrus	(013) 273 7230	Gerde Jones	Guest House, B&B	10	80% between Feb-Nov	Businessmen
Lena's Creek	083 732 6332	Karen Lemus	Guest House (Catered & Self Caterinh).	10	Varies. Busiest over school holidays.	SA Tourists mainly adults).

3.4 Tourism Demand

These accommodation facilities have shown that their occupancies appear to reflect the high numbers of business tourists staying in these facilities. Thus the primary demand for tourism facilities in the area is from the mines themselves.

3.4.1 Business Tourism

This form of tourism is currently the most important driver of the tourism industry. The location of the mines in the area have provided impetus to the growth of guest lodges/B&B's in the area. These facilities have high (60-80%) occupancy rates which are generally constant throughout the year. Weekly occupancy rates are typically higher during the week that at weekends. There is a growth (specifically within the Steelpoort Valley) in the corporate team building sector with facilities such as Bon Amanzi providing corporate functions and ecotourism tourism.

3.4.2 Leisure Tourism

Leisure tourism is important to the future of the tourism market in the Steelpoort area. This form of tourism is currently not a major factor, but it is anticipated to be the major future growth area within the Steelpoort Valley/Roosenekal area. This sector of the tourism industry relies on outdoor attractions such as ecotourism, sports etc. In the case of the Roosenekal

Client: Bohlweki Environmental

prepared by: SiVEST

Title: Tourism Impact Assessment Report
Proposed Pump Storage Scheme, Project Lima

area, the ecotourism and hunting aspects are expected to be the main driverts. Facilities such as Bon Amanzi and Kwanye are the new facilities offering these activities.

3.4.3 Educational Tourism

The educational tourism in the area is expected to be a potential future growth area. This growth is likely to be related to the secondary and tertiary educational institutions which could

include the area for future field trips.

The proponent has indicted their willingness to develop a visitors' centre as part of the development. This centre will utilise both the existing visitors to the area, but also has the potential to attract a new type of the visitor to the area i.e secondary and tertiary education tourists. These visitors could primarily visit the area as part of a school or university field trip to both the geological and biodiversity features of the area. The location of this visitors cetre is critical to its success. Please refer to the recommendations for our opinion on a suitable

location.

4 POTENTIAL IMPACT OF THE PUMP STORAGE SCHEME ON TOURISM

4.1 Impact assessment relating to the Tourism Industry

During the scoping phase, SiVEST identified 3 major impacts that are likely to result from the development of the proposed pump storage scheme and ancillary facilities:

Sense of place

Land Use change

Tourism growth and sustainability

These impacts have been discussed in the Scoping Report, and will not be repeated here. For the purposes of the EIA, the impacts described above have been amalgamated into a holistic impact analysis of the proposed development on the tourism industry. The impact assessment has been analysed according to a variety of aspects. These are discussed below in terms of how they relate to the tourism industry.

Client: Bohlweki Environmental

prepared by: SiVEST

Title: Tourism Impact Assessment Report
Proposed Pump Storage Scheme, Project Lima

Environmental Division

4.2 Sense of Place Impact Relative to Tourism

4.2.1 Construction Phase

Rating Matrix for Sense of Place				
Criteria	Rating			
Extent	2			
Duration	1			
Intensity	<u>3</u>			
Probability of occurrence	<u>3</u>			
Total	<u>11</u>			

This is rated as a <u>high</u> **negative** Impact before the implementation of mitigation and management measures

Mitigation and Management measures

- Location of construction camp away from tourism areas
- Containment of construction camps to predetermined areas away from tourism areas

Criteria	Rating
Extent	2
Duration	1
Intensity	<u>3</u>
Probability of occurrence	<u>3</u>
Total	<u>9</u>

This is rated as a <u>Medium</u> Negative Impact after the implementation of mitigation and management measures

Operation Phase

Rating Matrix for Sense of Place				
Criteria	Rating			
Extent	2			
Duration	3			
Intensity	1			

Client: Bohlweki Environmental

Title: Tourism Impact Assessment Report Proposed Pump Storage Scheme, Project Lima prepared by: SiVEST

Probability of occurrence	2
Total	7

This is rated as a **Low to medium negative** Impact before the implementation of mitigation and management measures

Mitigation and Management measures

- Location of construction camp away from tourism areas
- Containment of construction camps to predetermined areas away from tourism areas

Criteria	Rating
Extent	1
Duration	3
Intensity	1
Probability of occurrence	1
Total	6

This is rated as a **Low** Negative Impact after the implementation of mitigation and management measures

4.2.2 Land Use Relative to Tourism

Construction Phase

Rating Matrix for Land Use				
Criteria	Rating			
Extent	2			
Duration	1			
Intensity	<u>3</u>			
Probability of occurrence	3			
Total	<u>9</u>			

This is rated as a **medium negative** Impact before the implementation of mitigation and management measures

Mitigation and Management measures

- Location of construction camp away from tourism areas
- Containment of construction camps to predetermined areas away from tourism areas

Client: Bohlweki Environmental

Title: Tourism Impact Assessment Report Proposed Pump Storage Scheme, Project Lima prepared by: SiVEST

Criteria	Rating
Extent	1
Duration	1
Intensity	<u>3</u>
Probability of occurrence	2
Total	<u>7</u>

This is rated as a **Low** Negative Impact after the implementation of mitigation and management measures

Operation Phase

Rating Matrix for Land Use				
Criteria	Rating			
Extent	1			
Duration	3			
Intensity	2			
Probability of occurrence	2			
Total	8			

This is rated as a **medium negative** Impact before the implementation of mitigation and management measures

Mitigation and Management measures

- Location of development so as to limit negative impacts on existing tourism operations
- Establishment of a tourism visitor centre and a nature reserve around the proposed development

Criteria	Rating
Extent	3
Duration	3
Intensity	4
Probability of occurrence	3
Total	13

This is rated as a **High to Very High** Positive Impact after the implementation of mitigation and management measures

Client: Bohlweki Environmental

Title: Tourism Impact Assessment Report Proposed Pump Storage Scheme, Project Lima prepared by: SiVEST

4.2.3 Tourism growth and sustainability

Construction Phase

Rating Matrix for Tourism growth		
Criteria	Rating	
Extent	3	
Duration	1	
Intensity	2	
Probability of occurrence	2	
Total	8	

This is rated as a **medium positive** Impact before the implementation of mitigation and management measures

Mitigation and Management measures

- Containment of construction camp and construction vehicles to as small as area as possible
- Use of existing tourism facilities by construction management staff
- Marketing of tourism facilities identified near the development during the construction phase

Criteria	Rating
Extent	3
Duration	3
Intensity	4
Probability of occurrence	4
Total	14

This is rated as a very high positive Impact after the implementation of mitigation and management measures

Operation Phase

Rating Matrix for Tourism growth	
Criteria	Rating
Extent	3
Duration	3

Client: Bohlweki Environmental

Title: Tourism Impact Assessment Report Proposed Pump Storage Scheme, Project Lima prepared by: SiVEST

Intensity	2
Probability of occurrence	2
Total	10

This is rated as a low to **medium positive** Impact before the implementation of mitigation and management measures

Mitigation and Management measures

- Marketing of tourism facilities identified near the development during the construction phase
- Use of existing tourism establishments for maintenance management staff
- Location of development so as to limit negative impacts on existing tourism operations
- Establishment of a tourism visitor centre and a nature reserve around the proposed development

Criteria	Rating
Extent	3
Duration	3
Intensity	3
Probability of occurrence	3
Total	12

This is rated as a very high positive Impact after the implementation of mitigation and management measures

5 CONCLUSIONS

The tourism industry in the Steelpoort area is still in its infancy, but is growing. The industry

has in the past been dependant on the mining industry for its sustainability. There is little to no

tourism in the Mathula/Sehlakwane area, but it does form part of the Cultural Heritage Route. The majority of the tourism facilities are located in the Roosenekal area, and the Steelpoort

Valley itself. Despite the beauty and scenic value of the area, this has not been a major driver

of tourism growth. However, there is a recent trend towards the establishment of nature

based tourism facilities. These facilities include ecotourism, hunting and corporate team

building operations.

The proposed development of the Steelpoort Pump Storage Scheme, is expected to have

negative impacts relating to loss of sense of place during the construction phase, and to a

lesser extent during the operational phase. The construction phase is likely to exert the

greatest negative impact on the existing game reserves in the area through the construction

camp and the construction traffic. This is mainly due to the large size of the construction camp which will house 2500 workers. However, the overall impact will be a positive one both

during construction and operation as a result of the increased business tourism that is

expected to generated by the proposed development.

6 RECOMMENDATIONS

The construction camp, the workforce, and the construction traffic will need to be carefully

managed throughout the life of the construction phase. This will minimise the impact on these

existing, and indeed any new facilities that may be currently planned or developed. Limited

access to the Steelpoort Valley is vital, and it is suggested that the shortest possible access

route off the R555 is only used. The construction camp should not be a catalyst for social

degeneration in the area and all mitigation measures as recommended by the Social

Specialist should be strictly enforced.

The establishment of a nature reserve in the vicinity of the proposed development, and

associated visitors centre, will be key to the sustainable development of the tourism industry,

and will complement the existing and new nature based tourism facilities in the valley. The

visitors centre is likely to be more successful if it is located in the Steelpoort Valley, at the

lower dam. The visitors centre should have the following key objectives:

Client: Bohlweki Environmental

prepared by: SiVEST

Title: Tourism Impact Assessment Report

Proposed Pump Storage Scheme, Project Lima

Environmental Division

- To showcase the engineering technology and methodologies of the development
- To showcase the environmental advantages of this type of power generation
- To showcase the biodiversity, geography, and geology of the area
- To showcase the other industries in the area
- To showcase the social and cultural heritage of the area

The visitors centre should be carefully designed and laid out by a professional company. It is advisable that the Mpumalanga Tourism Authority is involved in the development of the concept for the visitor's centre. It is also recommended that the Mpumalanga Parks Board is involved with the development of the nature reserve.

