



NOTIFICATION OF INTENT TO DEVELOP

DEA Pending

Reference:

Digby Wells ILI2395

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NOTICE OF INTENT TO DEVELOP FOR THE KOSMOSDAL SEWER PIPE BRIDGE UPGRADE

1 INTRODUCTION

Digby Wells Environmental (hereafter Digby Wells) has been requested by ILISO Consulting Engineers (hereafter ILISO) to complete a Heritage Statement Report and submit a Notification of Intent to Develop to the relevant Authority in order to comply with certain requirements in terms of the National Environmental Management Act, 1998 and the National Heritage Resources Act, 1999 for the upgrade of an existing sewer pipe bridge in the Rietspruit area, Kosmosdal, Centurion.

1.1 Project Location

Name of property	Olievenhoutbosch
Erf or farm numbers	389 JR
Coordinates of approximate centre of project area	-25.921330
	28.116511
Nearest Town	Pretoria
Responsible Municipality	City of Tshwane Metropolitan Municipality
Extent of property	2860.65 ha
Maximum extent of proposed development	±1 ha
Current use	Sewer pipe bridge and river
Predominant land use/s of surrounding properties	Vacant land and quarry

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Directors: AR Wilke, LF Koeslag, PD Tanner (British)*, AJ Reynolds (Chairman) (British)*, J Leaver*, GE Trusler (C.E.O)
*Non-Executive

1.2 Registered Owner of Affected Properties

Table 1-1: Registered Owners

Name	Name of Company/ Farm name	Address	Email	Telephone numbers	Fax Number
MR ARTHUR NDINDANI	Canyon Rock Pty Ltd Olievenhoutbosch 389 Portion 108	PO Box 47 The Reeds 0061	arthur@raumix.co.za	(012) 652-0107 083 271-9365	(012) 652-0111
Henke Ernst (Legal Advisor/Company Secretary)	PRETORIA AMALGAMATED QUARRIES PTY LTD	P O BOX 66192 HIGHVELD 0169 BUILDING 1 HIGHGROVE OFFICE PARK 50 TEGEL AVENUE 0169	legal@raubex.com	(012) 648 9400 (083) 274 3117	(012) 665 3233

2 PROJECT/DEVELOPMENT DETAILS

Certain areas within the City of Tshwane (CoT) are prone to flooding during rainfall events due to anthropogenic activities such as the increase in residential development. This may pose a serious risk to human lives and damage to infrastructure. One of the areas that are prone to flooding is the sewer pipe bridge in the Rietspruit area in Kosmosdal near the Canyon Rock quarry. The integrity and the stability of the existing pipe bridge located in the Rietspruit are in question due to the erosion of the piles. It appears that the erosion is caused by the overflow of the existing dam upstream of the river. The piles supporting the bridge must be protected and strengthened by encasing them in reinforced concrete to create a shaped pier. To prevent further erosion to the water course it is proposed to reinstate the eroded water course in the vicinity of the pipe bridge.

It is proposed that the exposed piles be protected and strengthened by encasing them in reinforced concrete to create a shaped pier. The exposed length of the piles currently under consideration is about 2.4 m above the current water level. In order to provide the required support to the piles, the encasement needs to extend at least 750 mm into good material, assuming bedrock is not found before that depth.

The strengthening and safeguarding of the pipe bridge may require the construction of additional or new bridge piers and foundations where required, the repair or reconstruction of the bridge deck and the replacement of sections of the sewer line.

In order to construct the new piers around the piles it will be necessary to construct a cofferdam in the waterway to enable the piers to be constructed in the dry and to ensure the stability of the material surrounding the excavations around the piles. This work will require the use of material well in excess of 5 cubic metres.

To prevent further erosion of the water course and the eastern canal erosion measures will be implemented which may include the placement of rock fill and gabion mattresses.

2.1 NHRA Section 38 Triggers

The following activities may require a HIA in terms of Section 38 of the NHRA.

NHRA Section 38 (1) Activities / Triggers		Summary description (E.g. 500 m conveyor belt, open cast pit, etc.)	
<input type="checkbox"/>	a	Any linear development or barrier >300 m	
<input type="checkbox"/>	b	Any bridge or similar structure >50 m	
<input type="checkbox"/>	c	Any development or activity that will change the character of a site:	
<input type="checkbox"/>	i	≥5 000m ² in extent	
<input type="checkbox"/>	ii	Involving ≥3 existing erven/subdivisions	
<input type="checkbox"/>	iii	Involving ≥3 or more erven/divisions consolidated within past 5 years.	
<input type="checkbox"/>	d	Rezoning of a site ≥10 000m ² in extent.	
<input checked="" type="checkbox"/>	e	Other triggers, e.g.: in terms of other legislation, (i.e.: National Environment Management Act, etc.)	NEMA application

2.2 Activities

The following Listed Activities will require a HIA in terms of Section 38(1) of the NHRA.

Government Notice (GN)	NEMA Activity No.	NHRA Trigger	Description	Expected duration/phase
R544	11	38 (1) e	Other triggers, e.g.: in terms of other legislation, (i.e.: National Environment Management Act, etc.)	Construction phase

2.3 Additional Impact Assessment Process

The following impact assessment processes are currently being undertaken for the proposed project.

Legislation, i.e. NEMA, MPRDA, etc.	NEMA
Consenting Authority that has/will receive information	DEA
Present phase of process at Authority, e.g. Draft Scoping Report	Draft Scoping Report/ Basic Assessment Report

3 IDENTIFIED/KNOWN HERITAGE RESOURCES AND POTENTIAL IMPACTS

The following categories of heritage resources as defined in Section 3 of the NHRA are known to occur within the proposed project area.

<input type="checkbox"/>	3(2)(a)	Places, buildings, structures and equipment of cultural significance
		<i>Description of resource:</i>
		<i>Potential impact:</i>
<input type="checkbox"/>	3(2)(b)	Places to which oral traditions are attached or which are associated with living heritage
		<i>Description of resource:</i>
		<i>Potential impact:</i>
<input type="checkbox"/>	3(2)(c)	Historical settlements and townscapes
		<i>Description of resource:</i>
		<i>Potential impact:</i>
<input type="checkbox"/>	3(2)(d)	Landscapes and natural features of cultural significance
		<i>Description of resource:</i>
		<i>Potential impact:</i>
<input type="checkbox"/>	3(2)(e)	Geological resources of scientific or cultural importance
		<i>Description of resource:</i>
		<i>Potential impact:</i>

<input type="checkbox"/>	3(2)(f)	Archaeology and/or palaeontology (Including archaeological sites and material, fossils, rock art, battlefields & wrecks)
		<i>Description of resource:</i>
		<i>Potential impact:</i>
<input type="checkbox"/>	3(2)(g)	Graves and burial grounds (eg: ancestral graves, graves of victims of conflict, historical graves & cemeteries)
		<i>Description of resource:</i>
		<i>Potential impact:</i>
<input type="checkbox"/>	3(2)(a)	Other human remains
		<i>Description of resource:</i>
		<i>Potential impact:</i>
<input type="checkbox"/>	3(2)(h)	Sites of significance relating to the history of slavery in South Africa
		<i>Description of resource:</i>
		<i>Potential impact:</i>
<input type="checkbox"/>	3(2)(i)	Movable objects
		<i>Description of resource:</i>
		<i>Potential impact:</i>

3.1 Illustrative Material

For site maps, please refer to the attached Heritage Statement.

4 RECOMMENDATION

Is a Heritage Impact Assessment required?		<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
If NO, provide motivation: The project area has undergone substantial transformations and development. Any heritage resources within the project will not be preserved <i>in situ</i> . A Watching Brief should be conducted and Chance Finds Procedures should be put in place if any heritage resources are identified during construction.			
If YES, provide suggested components that may be required or undertaken during HIA.			
<input type="checkbox"/>	Archaeology	<input type="checkbox"/>	Architecture



<input type="checkbox"/>	Built Environment	<input type="checkbox"/>	Burial Grounds and Graves
<input type="checkbox"/>	Palaeontology	<input type="checkbox"/>	Public Participation
<input type="checkbox"/>	Townscapes	<input type="checkbox"/>	Visual Impact
<input type="checkbox"/>	Other:		
<p>Recommendation made by: Digby Wells Environmental</p> <p>Name: Natasha Higgitt and Johan Nel</p> <p>Capacity: Archaeology Consultant and HRM Unit Manager</p>			