



KZN Agriculture, Environmental Affairs & Rural Development  
*umNyango: ezoLimo ezeMvelo nokuThuthukiswa  
kweMiphakathi yaseMakhaya*  
SIFUNDAZWE SAKWAZULU-NATALI

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**Basic Assessment Report**  
in terms of the  
Environmental Impact Assessment Regulations, 2006 &  
NEMA Amendment Act 2008

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**Kindly note that:**

1. This **Basic Assessment Report** meets the requirements of Regulation 23 of the EIA Regulations, 2006 and is meant to streamline applications.
2. The report may be typed within the spaces provided in the form. The size of the spaces provided is not necessarily indicative of the amount of information to be provided. The report is in the form of a table that can extend itself as each space is filled with typing.
3. Where applicable **cross** the boxes that are applicable or **black out** the boxes that are not applicable in the report.
4. An incomplete report will be returned to the applicant for revision.
5. The use of "not applicable" in the report must be done with circumspection because if it is used in respect of material information that is required by this department for assessing the application, it may result in the rejection of the application as provided for in the regulations.
6. The report must be compiled by an independent environmental assessment practitioner.
7. Unless protected by law, all information in the report will become public information on receipt by this department. Any interested and affected party should be provided with the information contained in this report on request, during any stage of the application process.
8. This department may require that for specified types of activities in defined situations only parts of this report need to be completed. In addition, if it is clear to the EAP that because of the particular circumstances of the case it is not sensible to complete any of the sections indicated under paragraph 3 of this report, he or she may apply for exemption from completing that part of the report in the spaces provided in the report. It must however be noted that if the application for exemption is turned down, the report may have to be resubmitted.
9. The Environmental Assessment Practitioner ("EAP") must submit all Basic Assessment Reports, to registered interested and affected parties for a **40 day** commenting period. This will include all relevant state departments that administer a law relating to a matter affecting the environment. This provision is in accordance with Section 24 O (3) of the National Environmental Management Amendment Act, 2008 (Act No. 62 of 2008).
10. No faxed or e-mailed reports will be accepted.
11. This document must be handed in or posted to the appropriate Regional Office of the KwaZulu-Natal Department of Agriculture and Environmental Affairs at one of the following addresses:

- **FOR APPLICATIONS IN NORTHERN KWAZULU-NATAL** (Amajuba, Umkhanyakude, Uthungulu, Umzinyathi and Zululand District Municipalities)

**Environment: North Region**  
**KwaZulu Natal Department of Agriculture and Environmental Affairs**  
**Private Bag X1048**  
**RICHARDS BAY**  
**3900**

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4<sup>th</sup> Floor ABSA Building  
 Lakeview Terrace  
 RICHARDS BAY

Contact Person: Ms Zama Mbanjwa  
 Telephone No.: (035) 780 6765

- **FOR APPLICATIONS IN SOUTHERN KWAZULU-NATAL** (Ethekwini Metro, Ilembe, Sisonke, Ugu, Umgungundlovu and Uthukela District Municipalities):

Environment: South Region  
 KwaZulu-Natal Department of Agriculture and Environmental Affairs  
 Private Bag X6005  
 HILTON  
 3245

A Block  
 4 Pin Oak Avenue  
 HILTON

Contact Person: Ms Mavis Padayachee  
 Telephone No.: (033) 343 8428

## COMPLETION OF THIS REPORT

Please indicate the numbers of the sections of this report that have not been completed:

Section C:	6(a)	6(b)	6(c)	6(d)	7	8	9(c)	9(e)	9(f)	9(g)	9(h)	11
Section D:	1	2	3	4	5	6						
Section E:	1(a)	1(b)	1(c)	1(d)	1(f)	1(g)	3					

Provide detailed reasons for not completing the sections indicated:

Section	Reasons for not completing

## SECTION A: APPLICATION FOR EXEMPTION

Please provide details regarding any application for exemption from the requirements of the EIA Regulations, 2006:

Has an application for exemption been submitted to the Department?	YES	NO
Has an Exemption Notice in respect of an application for exemption been issued?	YES	NO
Is a copy of the Exemption Notice attached to this report?	YES	NO

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# SECTION B: DETAILS OF THE ENVIRONMENTAL ASSESSMENT PRACTITIONER AND SPECIALISTS

## 1. NAME AND CONTACT DETAILS OF ENVIRONMENTAL ASSESSMENT PRACTITIONER (EAP)

Name and contact details of the EAP who prepared this report:

Business name of EAP:	SSI Engineers and Environmental Consultants		
Physical address:	Unit 7, Tradewinds Business Centre, Marine Drive Shelly Beach, 4240		
Postal address:	PO Box 1770, Port Shepstone, 4240		
Postal code:	4240	Cell:	(0)82 327 2100
Telephone:	(039) 315 5002	Fax:	(0)39 315 6524
E-mail:	amandaf@ssi.co.za		

## 2. NAMES AND EXPERTISE OF REPRESENTATIVES OF THE EAP

Names and details of the expertise of each representative of the EAP involved in the preparation of this report:

Name of representative of the EAP	Educational qualifications	Experience at environmental assessments (yrs)
Monica Shange	Bso Environmental Management (Geography)	>4 years
Amanda Fritz whyte	BSc, Bsc Hons, MSc	> 7 years

## 3. NAMES AND EXPERTISE OF SPECIALISTS

Names and details of the expertise of each specialist that has contributed to this report:

Name of specialist	Educational qualifications	Experience in field of expertise
Dr L Celliers (Project manager and Senior Scientist) (Marine Assessment)	PhD in Coastal Management	>10years
Mjay Consulting(SIA)	BA Environmental Management	4 years

# SECTION C: ACTIVITY INFORMATION

## 1. PROJECT INFORMATION

### a. Project title

Proposed Removal of Tidal Pool in Southbroom, Hibiscus Coast Local Municipality

### b. Project description

Describe your project in detail:

The Southbroom main tidal pool was built in the 1950's as a public amenity. Its base is eroded away and it tends to fill up with sand frequently. Over the years it has become damaged as a result of wave and wind action as well as the flawed nature of its original design. Added to this is the view that the tidal pool is in an overwhelming inappropriate position in the most dynamic area of the coastal zone. From a safety and aesthetic point of view the pool is in need of reparation if it is to remain a feature on the South Coast.

DAEA&RD has confirmed that there are three alternatives or options regarding the future of the tidal pool:

1. Demolish and then rehabilitate;
2. Decommission without demolishing, but rather filling the pool with sand, or
3. Repairing and reinstating the pool.

## 2. ACTIVITY DESCRIPTION

Describe the activity / activities which is / are being applied for in detail:

No R386 of 2006:

(2) Construction of earth moving activities in the sea or within 100 metres inland of the high water mark of the sea, in respect of –

- (a) facilities for the storage of material and the maintenance of vessels;
- (b) fixed or floating jetties and slipways;
- (c) tidal pools;
- (d) embankments;
- (e) stabilizing walls;
- (f) buildings; or
- (g) Infrastructure

(6) The excavation, moving, removal, depositing or compacting of soil, sand, rock or rubble covering an area exceeding 10 square metres in the sea or within a distance of 100 metres inland of the high-water mark of the sea.

## 3. ALTERNATIVES

Describe alternatives that are considered in this application. Consideration of alternatives must not be limited to site and layout alternatives only. Alternatives assessed must include the consideration of alternative technologies, processes and activities by means of which the objectives of the proposed project may be achieved. The no-go alternative must in all cases be included in the assessment phase as the baseline against which the impacts of the other alternatives are assessed. The determination of whether site or activity (including different processes etc.) or both is appropriate needs to be informed by the specific circumstances of the activity and its environment. After receipt of this report the competent authority may also request the applicant to assess additional alternatives that could possibly accomplish the purpose and need of the proposed activity if it is clear that realistic alternatives have not been considered to a reasonable extent for informed decision making.

### 2(a) Site alternatives:

Describe site alternative 1 (S1), (**selected site**) for the activity described above, or for any other activity alternative:

There are no alternative sites applicable. This is an existing public open tidal pool, which requires long term remediation measures to address the degraded and inappropriately placed tidal pool at Southbroom main beach.

Describe site alternative 2 (S2), **if any**, for the activity described above, or for any other activity alternative:

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Describe site alternative 3 (S3), **if any**, for the activity described above, or for any other activity alternative:

**2(b) Layout alternatives:**

Describe layout alternative 1 (L1), **if any** for the activity described above, or for any other activity alternative:

Demolish and then rehabilitate;

Describe layout alternative 2 (L2), **if any**, for the activity described above, or for any other activity alternative:

Decommission without demolishing, but rather filling the pool with sand

Describe layout alternative 3 (L3), **if any**, for the activity described above, or for any other activity alternative:

Repairing and reinstating the pool.



## 6. SITE ACCESS

Does ready access to the site exist, or is access directly from an existing road?

YES NO

If NO, what is the distance over which a new access road will be built

m

Describe the type of access road planned:

Include the position of the access road on the site plan.

## 7. WASTE, EFFLUENT AND NOISE MANAGEMENT

Please note that the following environmental issues must be described for each alternative site, layout and process.

### a. Solid waste management

Will the activity produce solid waste during the construction/initiation phase?

YES NO

If yes, what estimated quantity will be produced per month?

Estimated  
1420m<sup>3</sup> in total

How will the construction solid waste be disposed of (describe)?

Solid waste from the construction site that is unsuitable for re-use by the community will be transported to a registered waste disposal facility (Oatlands landfill site) so as to avoid the pollution of surrounding areas and roads, as well as to minimize nuisance impacts such as dust.

Where will the construction solid waste be disposed of (describe)?

Oatlands landfill site near Margate

Will the activity produce solid waste during its operational phase?

YES NO

If yes, what estimated quantity will be produced per month?

m<sup>3</sup>

How will the solid waste be disposed of (describe)?

Where will the solid waste be disposed if it does not feed into a municipal waste stream (describe)?

If the solid waste (construction or operational phases) will not be disposed of in a registered landfill site or be taken up in a municipal waste stream, this must be brought to the attention of the competent authority.

Can any part of the solid waste be classified as hazardous in terms of the relevant legislation?

YES NO

If yes, inform the competent authority and request a change to an application for scoping and EIA.

Is the activity that is being applied for, for that of a solid waste handling or treatment facility?

YES NO

If yes, the applicant must consult with the competent authority to determine whether it is necessary to change to an application for scoping and EIA.

Describe the measures, if any, that will be taken to ensure the optimal reuse or recycling of materials:

All rubble from the various sites unsuitable for re-use in backfilling will be transported to a registered waste disposal facility (Oatlands landfill site) so as to avoid the pollution of surrounding areas and roads, as well as to minimize nuisance impacts such as dust.

Has a specialist been consulted to assist with the completion of this section?

YES NO

If YES, please complete:

Name of the specialist:

Qualification(s) of the specialist:

Postal address:

Postal code:

Telephone:

E-mail:

Cell:

Fax:

Are any further specialist studies recommended by the specialist?

YES NO

If YES, specify:

If YES, is such a report(s) attached?

YES NO

Signature of specialist:

Date:

### b. Liquid effluent

Will the activity produce effluent, other than domestic sewage?

YES NO

If yes, what estimated quantity will be produced per month?

m<sup>3</sup>

If not, how will this effluent be disposed of?

Will the activity produce any effluent that will be treated and/or disposed of on site?

Yes NO

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If yes, the applicant should consult with the competent authority to determine whether it is necessary to change to an application for scoping and EIA.

Will the activity produce effluent that will be treated and/or disposed of at another facility?  YES  NO

If yes, provide the particulars of the facility:

Facility name: [Redacted]  
 Contact person: [Redacted]  
 Postal address: [Redacted]  
 Postal code: [Redacted]  
 Telephone: [Redacted] Cell: [Redacted]  
 E-mail: [Redacted] Fax: [Redacted]

Describe the measures that will be taken to ensure the optimal reuse or recycling of waste water, if any:

Has a specialist been consulted to assist with the completion of this section?  YES  NO

If YES, please complete:

Name of the specialist: [Redacted]  
 Qualification(s) of the specialist: [Redacted]  
 Postal address: [Redacted]  
 Postal code: [Redacted]  
 Telephone: [Redacted] Cell: [Redacted]  
 E-mail: [Redacted] Fax: [Redacted]

Are any further specialist studies recommended by the specialist?  YES  NO

If YES, specify: [Redacted]

If YES, is such a report(s) attached?  YES  NO

Signature of specialist: [Redacted] Date: [Redacted]

**c. Emissions into the atmosphere**

Will the activity release emissions into the atmosphere?  YES  NO

If yes, is it controlled by any legislation of any sphere of government?  YES  NO

If yes, the applicant should consult with the competent authority to determine whether it is necessary to change to an application for scoping and EIA.

If no, describe the emissions in terms of type and concentration:

Limited dust will be generated during the construction phase by the offloading of building materials, the demolition of existing tidal pool & infrastructure as well as movement and removal of sand.

Has a specialist been consulted to assist with the completion of this section?  YES  NO

If YES, please complete:

Name of the specialist: [Redacted]  
 Qualification(s) of the specialist: [Redacted]  
 Postal address: [Redacted]  
 Postal code: [Redacted]  
 Telephone: [Redacted] Cell: [Redacted]  
 E-mail: [Redacted] Fax: [Redacted]

Are any further specialist studies recommended by the specialist?  YES  NO

If YES, specify: [Redacted]

If YES, is such a report(s) attached?  YES  NO

Signature of specialist: [Redacted] Date: [Redacted]

**d. Generation of noise**

Will the activity generate noise?  YES  NO

If yes, is it controlled by any legislation of any sphere of government?  YES  NO

If yes, the applicant should consult with the competent authority to determine whether it is necessary to change to an application for scoping and EIA.

If no, describe the noise in terms of type and level:

The noise generated by the activities will be insignificant. Noise will be generated during demolition/rehabilitation of existing infrastructure during construction activities and by construction vehicles on site. These sources will be limited to day-time only.

Has a specialist been consulted to assist with the completion of this section?  YES  NO

If YES, please complete:

Name of the specialist: [Redacted]  
 Qualification(s) of the specialist: [Redacted]  
 Postal address: [Redacted]  
 Postal code: [Redacted]  
 Telephone: [Redacted] Cell: [Redacted]  
 E-mail: [Redacted] Fax: [Redacted]

Are any further specialist studies recommended by the specialist?  YES  NO

If YES, specify:  YES  NO  
 If YES, is such a report(s) attached?  YES  NO

Signature of specialist: \_\_\_\_\_ Date: \_\_\_\_\_

**8. WATER USE**

Please note that the following issue must be described for each alternative site, layout and process.

Please indicate the source(s) of water that will be used for the activity by crossing the appropriate box (es)

municipal	water board	groundwater	river, stream, dam or lake	other	the activity will not use water
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If water is to be extracted from groundwater, river, stream, dam, lake or any other natural feature, please indicate the volume that will be extracted per month: \_\_\_\_\_ litres  
 Does the activity require a water use permit from the Department of Water Affairs and Forestry?  YES  NO  
 If yes, please submit the necessary application to the Department of Water Affairs and Forestry and attach proof thereof to this application if it has been submitted.

**9. ENERGY EFFICIENCY**

Please note that the following issue must be described for each alternative site, layout and process.

Describe the design measures, if any, that have been taken to ensure that the activity is energy efficient:  
 No activities are anticipated that will lend themselves to design measures for energy efficiency in terms of alternative sites or lay-out.  
 The rehabilitation/ demolition method is labour intensive and will reduce the use of heavy equipment, thereby improving energy efficiency during construction activities.  
 Describe how alternative energy sources have been taken into account or been built into the design of the activity, if any:  
 No activities are anticipated that will lend themselves to design measures for alternative energy sources during the construction or operational phase of the project.

**10. SITE OR ROUTE PLAN**

A detailed site or route plan(s) must be prepared for each alternative site or alternative activity. It must be attached as Appendix A to this document. The site or route plans must indicate the following:

- 10(a) the scale of the plan (appropriate to the extent of the development);
- 10(b) the property boundaries and erf or farm numbers of the adjoining properties;
- 10(c) the current land use as well as the land use zoning of each of the properties adjoining the site or sites;
- 10(d) the position of each element of the application as well as any other structures on the site;
- 10(e) the position of services (e.g. electricity supply cables, water supply pipelines, boreholes, sewage pipelines and storm water infrastructure) including servitudes and the purpose of such servitudes;
- 10(f) sensitive environmental elements on the site/s and within 100m of the site/s including (but not limited thereto):
  - Rivers, streams and drainage lines;
  - wetlands;
  - the 1:100 year flood line (where available or where it is required by DWAF);
  - ridges;
  - cultural and historical features;
  - areas with indigenous vegetation including protected plant species (even if it is degraded or invested with alien species);
- 10(g) contour intervals appropriate to the scale of the development must be indicated on the plan; and
- 10(h) the positions from where photographs of the site were taken must be indicated.
- 10(i) a detailed viewshed illustration (where appropriate)

**11. SITE PHOTGRAPHS**

Colour photographs must include important features of the site and a description of each photograph must be provided. Photographs must be attached under Appendix B to this form.

## 12. ACTIVITY MOTIVATION

### 12(a) Socio-economic value of the activity

What is the expected capital value of the activity on completion?

Estimated  
R500000.

What is the expected yearly income that will be generated by or as a result of the activity?

unknown at  
this stage as it  
is not certain  
what the  
effect on  
tourism will be

Will the activity contribute to service infrastructure?

YES NO

Is the activity a public amenity?

YES NO

How many new employment opportunities will be created in the development phase of the activity?

estimated 20

What is the expected value of the employment opportunities during the development phase?

Approximately  
R200 000

What percentage of this will accrue to previously disadvantaged individuals?

80%

How many permanent new employment opportunities will be created during the operational phase of the activity?

N/A

What is the expected current value of the employment opportunities during the first 10 years?

n/a

What percentage of this will accrue to previously disadvantaged individuals?

n/a

### 12(b) Need and desirability of the activity

Motivate and explain the need and desirability of the activity (including demand for the activity):

The Southbroom Tidal Pool was built in the early 1950's as a public amenity. Over the years it has become damaged as a result of wave and wind action as well as the flawed nature of its original design. Added to this is the view that the tidal pool is in an inappropriate position in the most dynamic area of the coastal zone.

The lack of maintenance on the tidal pool has forced the structure to succumb to natural forces allowing it to depreciate above the rocky outcrops along the shore.

Many believe that removing the structure will restore the beach to its natural state.

Reports from residents have indicated that children have been swept beneath the structure on separate occasions.

Residents believe that this fact alone should warrant the removal of the structure.

The hazard posed by the undermining of the Southbroom Tidal Pool has been an issue for over 5 years and was previously voted for demolition at AGM.

Funding has recently become available so options have been presented as to whether repair or demolition are the preferred choice by the Interested and Affected Parties.

Indicate any benefits that the activity will have for society in general:

Removal/ rehabilitation will have Health and benefits - it has been indicated that the pool is a threat to the society's safety, due to its degradation.

The rehabilitation work will enhance the identified beaches in the Hibiscus Coast Local Municipality area, allowing them to be used to their full potential again and making them safe for public use. This will have a positive effect on tourism in the area and the broader socio-economy.

Indicate any benefits that the activity will have for the local communities where the activity will be located:

Removal / rehabilitation will bring safety to the community

Rehabilitation the tidal pool will restore the infrastructure, and benefit businesses because of the increase of tourism.

## 13. APPLICABLE LEGISLATION, POLICIES AND/OR GUIDELINES

List all legislation, policies and/or guidelines of any sphere of government that are applicable to the application as contemplated in the EIA regulations, if applicable:

Title of legislation, policy or guideline:

Administering authority:

Date:

Title of legislation, policy or guideline:	Administering authority:	Date:
National Environmental Management Act ,Act No. 107 of 1998	DAE&RD/ DEAT	1998
Draft Coastal Management Act	Department of Environmental Affairs	2009
EIA Regulations under NEMA	DEAT/ DAE&RD	2006
White Paper of Sustainable Coastal Development	DEAT	2000
Seashore Act 1935	Municipal, DAE&RD	1935
DAEA Guide to Living with Coastal Erosion	DAE&RD	2008
National Environmental Waste Management Act (Act no. 59 of 2008)	Department of Water & Environmental Affairs	2008

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# SECTION D: SITE/AREA DESCRIPTION

**Important note:** For linear activities (pipelines etc) as well as activities that cover very large sites, it may be necessary to complete Section C for each part of the site that has a significantly different environment. In such cases please complete copies of Section C and indicate the area, which is covered by each copy No. on the Site Plan.

Section C Copy No. (e.g. A): [REDACTED]  
 (complete only when appropriate)

## 1. GRADIENT OF THE SITE

Indicate the general gradient of the sites (Please cross the appropriate box).

**Alternative S1 (preferred site):**

Flat	1:50 – 1:20	1:20 – 1:15	1:15 – 1:10	1:10 – 1:7,5	1:7,5 – 1:5	Steeper than 1:5
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**Alternative S2 (if any):**

Flat	1:50 – 1:20	1:20 – 1:15	1:15 – 1:10	1:10 – 1:7,5	1:7,5 – 1:5	Steeper than 1:5
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**Alternative S3 (if any):**

Flat	1:50 – 1:20	1:20 – 1:15	1:15 – 1:10	1:10 – 1:7,5	1:7,5 – 1:5	Steeper than 1:5
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## 2. LOCATION IN LANDSCAPE

Indicate the landform(s) that best describes the site (Please cross the appropriate box).

**Alternative S1 (preferred site):**

Ridgeline	Plateau	Side slope of hill/mountain	Closed valley	Open valley	Plain	Undulating plain/low hills	Dune	Sea-front
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**Alternative S2 (if any):**

Ridgeline	Plateau	Side slope of hill/mountain	Closed valley	Open valley	Plain	Undulating plain/low hills	Dune	Sea-front
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**Alternative S3 (if any):**

Ridgeline	Plateau	Side slope of hill/mountain	Closed valley	Open valley	Plain	Undulating plain/low hills	Dune	Sea-front
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## 3. GROUNDWATER, SOIL AND GEOLOGICAL STABILITY OF THE SITE

Is the site(s) located on any of the following (cross the appropriate boxes)?

	Alternative S1 (preferred site):		Alternative S2 (if any):		Alternative S3 (if any):	
	YES	NO	YES	NO	YES	NO
Shallow water table (less than 1.5m deep)	YES	NO	YES	NO	YES	NO
Dolomite, sinkhole or doline areas	YES	NO	YES	NO	YES	NO
Seasonally wet soils (often close to water bodies)	YES	NO	YES	NO	YES	NO
Unstable rocky slopes or steep slopes with loose soil	YES	NO	YES	NO	YES	NO
Dispersive soils (soils that dissolve in water)	YES	NO	YES	NO	YES	NO
Soils with high clay content (clay fraction more than 40%)	YES	NO	YES	NO	YES	NO
Any other unstable soil or geological feature	YES	NO	YES	NO	YES	NO
An area sensitive to erosion	YES	NO	YES	NO	YES	NO

If you are unsure about any of the above or if you are concerned that any of the above aspects may be an issue of concern in the application, an appropriate specialist should be appointed to assist in the completion of this section. (Information in respect of the above will often be available as part of the project information or at the planning sections of local authorities. Where available / they exist, the 1:50 000 scale Regional Geotechnical Maps prepared by the Council for Geo Science may also be consulted).

Has a specialist been consulted to assist with the completion of this section?  YES  NO

If YES, please complete:

Name of the specialist:	Dr Louis Celliers		
Qualification(s) of the specialist:	PhD in Coastal Management		
Postal address:	PO Box 6340 Zimbali, South Africa		
Postal code:	4418		
Telephone:	Tel: +27 (0) 32 9463848	Cell:	+27 (82) 4523997
E-mail:	louisc@ssi.co.za	Fax:	27 (32) 5860007
Are any further specialist studies recommended by the specialist?			<input type="checkbox"/> YES <input type="checkbox"/> NO
If YES, specify:	Engineering study, Social Impact Assessment Study, Marine ecological Assessment		
If YES, is such a report(s) attached?			<input type="checkbox"/> YES <input type="checkbox"/> NO

Signature of specialist: \_\_\_\_\_ Date: \_\_\_\_\_

#### 4. GROUNDCOVER

Cross the types of groundcover present on the site.

**Alternative S1:**

Natural veld - good condition <sup>E</sup>	Natural veld with scattered aliens <sup>E</sup>	Natural veld with heavy alien infestation <sup>E</sup>	Veld dominated by alien species <sup>E</sup>	Gardens
Sport field	Cultivated land	Paved surface	Building or other structure	Bare soil

If any of the boxes marked with an <sup>“E”</sup> are crossed, please consult an appropriate specialist to assist in the completion of this section if the environmental assessment practitioner doesn't have the necessary expertise. The environmental assessment practitioner or specialist must provide reasons for their selection above in the following box:

Has a specialist been consulted?	<input type="checkbox"/> YES	<input type="checkbox"/> NO
If YES, please complete the following:		
Name of the specialist:		
Qualification(s) of the specialist:		
Postal address:		
Postal code:		
Telephone:		Cell:
E-mail:		Fax:
Are there any rare or endangered flora or fauna species (including red data species) present on any of the alternative sites?	<input type="checkbox"/> YES	<input type="checkbox"/> NO
If YES, specify and explain:		
Are there any special or sensitive habitats or other natural features present on any of the alternative sites?	<input type="checkbox"/> YES	<input type="checkbox"/> NO
If YES, specify and explain:		
Are any further specialist studies recommended by the specialist?	<input type="checkbox"/> YES	<input type="checkbox"/> NO
If YES, specify:		
If YES, is such a report(s) attached?	<input type="checkbox"/> YES	<input type="checkbox"/> NO

Signature of specialist: \_\_\_\_\_ Date: \_\_\_\_\_

The location of all identified rare or endangered species or other elements should be accurately indicated on the site plan(s).

**Alternative S2:**

Natural veld - good condition <sup>E</sup>	Natural veld with scattered aliens <sup>E</sup>	Natural veld with heavy alien infestation <sup>E</sup>	Veld dominated by alien species <sup>E</sup>	Gardens
Sport field	Cultivated land	Paved surface	Building or other structure	Bare soil

If any of the boxes marked with an "E" are crossed, please consult an appropriate specialist to assist in the completion of this section if the environmental assessment practitioner doesn't have the necessary expertise. The environmental assessment practitioner or specialist must provide reasons for their selection above in the following box:



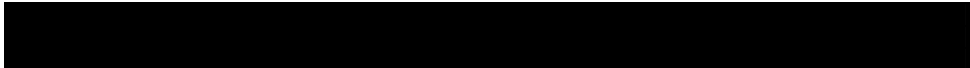
Has a specialist been consulted?	YES	NO
If YES, please complete the following:		
Name of the specialist:		
Qualification(s) of the specialist:		
Postal address:		
Postal code:		
Telephone:	Cell:	
E-mail:	Fax:	
Are there any rare or endangered flora or fauna species (including red data species) present on any of the alternative sites?	YES	NO
If YES, specify and explain:		
Are there any special or sensitive habitats or other natural features present on any of the alternative sites?	YES	NO
If YES, specify and explain:		
Are any further specialist studies recommended by the specialist?	YES	NO
If YES, specify:		
If YES, is such a report(s) attached?	YES	NO

Signature of specialist: \_\_\_\_\_ Date: \_\_\_\_\_  
 The location of all identified rare or endangered species or other elements should be accurately indicated on the site plan(s).

**Alternative S3:**

Natural veld - good condition <sup>E</sup>	Natural veld with scattered aliens <sup>E</sup>	Natural veld with heavy alien infestation <sup>E</sup>	Veld dominated by alien species <sup>E</sup>	Gardens
Sport field	Cultivated land	Paved surface	Building or other structure	Bare soil

If any of the boxes marked with an "E" are crossed, please consult an appropriate specialist to assist in the completion of this section if the environmental assessment practitioner doesn't have the necessary expertise. The environmental assessment practitioner or specialist must provide reasons for their selection above in the following box:



Has a specialist been consulted?	YES	NO
If YES, please complete the following:		
Name of the specialist:		
Qualification(s) of the specialist:		
Postal address:		
Postal code:		
Telephone:	Cell:	
E-mail:	Fax:	
Are there any rare or endangered flora or fauna species (including red data species) present on any of the alternative sites?	YES	NO
If YES, specify and explain:		
Are there any special or sensitive habitats or other natural features present on any of the alternative sites?	YES	NO

If YES, specify and explain: [redacted]  
 Are any further specialist studies recommended by the specialist? YES NO  
 If YES, specify: [redacted]  
 If YES, is such a report(s) attached? YES NO  
 Signature of specialist: [redacted] Date: [redacted]  
 The location of all identified rare or endangered species or other elements should be accurately indicated on the site plan(s).

**5. LAND USE CHARACTER OF SURROUNDING AREA**

Cross the land uses and/or prominent features that currently occur within a 500m radius of the site  
**Alternative S1 (preferred site):**

Natural area	Low density residential	Medium density residential	High density residential	Informal residential <sup>A</sup>
Retail	Commercial & warehousing	Light industrial	Medium industrial <sup>AN</sup>	Heavy industrial <sup>AN</sup>
Power station <sup>A</sup>	Office/consulting room	Military or police base/station/compound	Casino/entertainment complex	Hospitality facility
Open cast mine	Underground mine	Spoil heap or slimes dam <sup>A</sup>	Quarry, sand or borrow pit	Dam or reservoir
Hospital/medical center/clinic	School/creche	Tertiary education facility	Church	Old age home
Sewage treatment plant <sup>A</sup>	Train station or shunting yard <sup>N</sup>	Railway line <sup>N</sup>	Major road (4 lanes or more) <sup>N</sup>	Airport <sup>N</sup>
Harbour	Sport facilities	Golf course	Polo fields	Filling station <sup>H</sup>
Landfill or waste treatment site <sup>A</sup>	Plantation	Agriculture	River, stream or wetland	Nature conservation area
Mountain, koppie or ridge	Museum	Historical building	Graveyard	Archeological site
Other land uses (describe):				

If any of the boxes marked with an <sup>AN</sup> are crossed, please consult an appropriate noise specialist to assist in the completion of this section.

Has a specialist been consulted? YES NO  
 If YES, please complete the following:  
 Name of the specialist: [redacted]  
 Qualification(s) of the specialist: [redacted]  
 Postal address: [redacted]  
 Postal code: [redacted]  
 Telephone: [redacted] Cell: [redacted]  
 E-mail: [redacted] Fax: [redacted]  
 Will the ambient noise level have a negative impact on the proposed activity? YES NO  
 If YES, specify and explain: [redacted]  
 Are any further specialist or studies recommended by the specialist? YES NO  
 If YES, specify: [redacted]  
 If YES, is such a report(s) attached? YES NO  
 Signature of specialist: [redacted] Date: [redacted]

If any of the boxes marked with an <sup>AN</sup> are crossed, please consult an appropriate air quality specialist to assist in the completion of this section.

Has a specialist been consulted? YES NO  
 If YES, please complete the following:  
 Name of the specialist: [redacted]  
 Qualification(s) of the specialist: [redacted]  
 Postal address: [redacted]  
 Postal code: [redacted]  
 Telephone: [redacted] Cell: [redacted]  
 E-mail: [redacted] Fax: [redacted]  
 Will the ambient air pollution level have a negative impact on the proposed activity? YES NO  
 If YES, specify and explain: [redacted]  
 Are any further specialist studies recommended by the specialist? YES NO  
 If YES, specify: [redacted]

If YES, is such a report(s) attached?

YES NO

Signature of specialist:

Date:

If any of the boxes marked with an "H" are crossed, please consult an appropriate health assessment specialist to assist in the completion of this section.

Has a specialist been consulted?

YES NO

If YES, please complete the following:

Name of the specialist:

Qualification(s) of the specialist:

Postal address:

Postal code:

Telephone:

E-mail:

Cell:

Fax:

Will the surrounding land use pose any unacceptable health risk on the proposed activity?

YES NO

If YES, specify and explain:

Are any further specialist studies recommended by the specialist?

YES NO

If YES, specify:

If YES, is such a report(s) attached?

Signature of specialist:

Date:

**Alternative S2 (if any):**

Natural area	Low density residential	Medium density residential	High density residential	Informal residential <sup>A</sup>
Retail	Commercial & warehousing	Light industrial	Medium industrial <sup>AN</sup>	Heavy industrial <sup>AN</sup>
Power station <sup>A</sup>	Office/consulting room	Military or police base/station/compound	Casino/entertainment complex	Hospitality facility
Open cast mine	Underground mine	Spoil heap or slimes dam <sup>A</sup>	Quarry, sand or borrow pit	Dam or reservoir
Hospital/medical center/clinic	School/creche	Tertiary education facility	Church	Old age home
Sewage treatment plant <sup>A</sup>	Train station or shunting yard <sup>N</sup>	Railway line <sup>N</sup>	Major road (4 lanes or more) <sup>N</sup>	Airport <sup>N</sup>
Harbour	Sport facilities	Golf course	Polo fields	Filling station <sup>H</sup>
Landfill or waste treatment site <sup>A</sup>	Plantation	Agriculture	River, stream or wetland	Nature conservation area
Mountain, koppie or ridge	Museum	Historical building	Graveyard	Archeological site
Other land uses (describe):				

If any of the boxes marked with an "N" are crossed, please consult an appropriate noise specialist to assist in the completion of this section.

Has a specialist been consulted?

YES NO

If YES, please complete the following:

Name of the specialist:

Qualification(s) of the specialist:

Postal address:

Postal code:

Telephone:

E-mail:

Cell:

Fax:

Will the ambient noise level have a negative impact on the proposed activity?

YES NO

If YES, specify and explain:

Are any further specialist studies recommended by the specialist?

YES NO

If YES, specify:

If YES, is such a report(s) attached?

YES NO

Signature of specialist:

Date:

If any of the boxes marked with an "A" are crossed, please consult an appropriate air quality specialist to assist in the completion of this section.

Has a specialist been consulted? YES NO

If YES, please complete the following:

Name of the specialist: [REDACTED]

Qualification(s) of the specialist: [REDACTED]

Postal address: [REDACTED]

Postal code: [REDACTED]

Telephone: [REDACTED] Cell: [REDACTED]

E-mail: [REDACTED] Fax: [REDACTED]

Will the ambient air pollution level have a negative impact on the proposed activity? YES NO

If YES, specify and explain: [REDACTED]

Are any further specialist studies recommended by the specialist? YES NO

If YES, specify: [REDACTED]

If YES, is such a report(s) attached? YES NO

Signature of specialist: [REDACTED] Date: [REDACTED]

If any of the boxes marked with an "H" are crossed, please consult an appropriate health assessment specialist to assist in the completion of this section.

Has a specialist been consulted? YES NO

If YES, please complete the following:

Name of the specialist: [REDACTED]

Qualification(s) of the specialist: [REDACTED]

Postal address: [REDACTED]

Postal code: [REDACTED]

Telephone: [REDACTED] Cell: [REDACTED]

E-mail: [REDACTED] Fax: [REDACTED]

Will the surrounding land use pose any unacceptable health risk on the proposed activity? YES NO

If YES, specify and explain: [REDACTED]

Are any further specialist studies recommended by the specialist? YES NO

If YES, specify: [REDACTED]

If YES, is such a report(s) attached? YES NO

Signature of specialist: [REDACTED] Date: [REDACTED]

**Alternative S3 (if any):**

Natural area	Low density residential	Medium density residential	High density residential	Informal residential <sup>A</sup>
Retail	Commercial & warehousing	Light industrial	Medium industrial <sup>AN</sup>	Heavy industrial <sup>AN</sup>
Power station <sup>A</sup>	Office/consulting room	Military or police base/station/compound	Casino/entertainment complex	Hospitality facility
Open cast mine	Underground mine	Spoil heap or slimes dam <sup>A</sup>	Quarry, sand or borrow pit	Dam or reservoir
Hospital/medical center/clinic	School/creche	Tertiary education facility	Church	Old age home
Sewage treatment plant <sup>A</sup>	Train station or shunting yard <sup>N</sup>	Railway line <sup>N</sup>	Major road (4 lanes or more) <sup>N</sup>	Airport <sup>N</sup>
Harbour	Sport facilities	Golf course	Polo fields	Filling station <sup>H</sup>
Landfill or waste treatment site <sup>A</sup>	Plantation	Agriculture	River, stream or wetland	Nature conservation area
Mountain, koppie or ridge	Museum	Historical building	Graveyard	Archeological site
Other land uses (describe):				

If any of the boxes marked with an "N" are crossed, please consult an appropriate noise specialist to assist in the completion of this section.

Has a specialist been consulted?	YES	NO
If YES, please complete the following:		
Name of the specialist:		
Qualification(s) of the specialist:		
Postal address:		
Postal code:		
Telephone:	Cell:	
E-mail:	Fax:	
Will the ambient noise level have a negative impact on the proposed activity?	YES	NO
If YES, specify and explain:		
Are any further specialist studies recommended by the specialist?	YES	NO
If YES, specify:		
If YES, is such a report(s) attached?	YES	NO
Signature of specialist:	Date:	

If any of the boxes marked with an "A" are crossed, please consult an appropriate air quality specialist to assist in the completion of this section.

Has a specialist been consulted?	YES	NO
If YES, please complete the following:		
Name of the specialist:		
Qualification(s) of the specialist:		
Postal address:		
Postal code:		
Telephone:	Cell:	
E-mail:	Fax:	
Will the ambient air pollution level have a negative impact on the proposed activity?	YES	NO
If YES, specify and explain:		
Are any further specialist studies recommended by the specialist?	YES	NO
If YES, specify:		
If YES, is such a report(s) attached?	YES	NO
Signature of specialist:	Date:	

If any of the boxes marked with an "H" are crossed, please consult an appropriate health assessment specialist to assist in the completion of this section.

Has a specialist been consulted?	YES	NO
If YES, please complete the following:		
Name of the specialist:		
Qualification(s) of the specialist:		
Postal address:		
Postal code:		
Telephone:	Cell:	
E-mail:	Fax:	
Will the surrounding land use pose any unacceptable health risk on the proposed activity?	YES	NO
If YES, specify and explain:		
Are any further specialist studies recommended by the specialist?	YES	NO
If YES, specify:		
If YES, is such a report(s) attached?	YES	NO
Signature of specialist:	Date:	

## 6. CULTURAL/HISTORICAL FEATURES

### Alternative S1 (preferred site)

Are there any signs of culturally or historically significant elements, as defined in section 2 of the National Heritage Resources Act, 1999, (Act No. 25 of 1999), including archaeological or palaeontological sites, on or close (within 20m) to the site?	YES	NO
If YES, explain:		
If uncertain, conduct a specialist investigation by a recognised specialist in the field to establish whether there is such a feature(s) present on or close to the site.		
Briefly explain the findings of the specialist:		
Will any building or structure older than 60 years be affected in any way?	YES	NO
Is it necessary to apply for a permit in terms of the National Heritage Resources Act, 1999 (Act 25 of 1999)?	YES	NO
If yes, please submit or, make sure that the applicant or a specialist submits the necessary application to SAHRA or the relevant provincial heritage agency and attach proof thereof to this application if such application has been made.		

### Alternative S2 (if any)

Are there any signs of culturally or historically significant elements, as defined in section 2 of the National Heritage Resources Act, 1999, (Act No. 25 of 1999), including archaeological or palaeontological sites, on or close (within 20m) to the site?	YES	NO
If YES, explain:		
If uncertain, conduct a specialist investigation by a recognised specialist in the field to establish whether there is such a feature(s) present on or close to the site.		
Briefly explain the findings of the specialist:		
Will any building or structure older than 60 years be affected in any way?	YES	NO
Is it necessary to apply for a permit in terms of the National Heritage Resources Act, 1999 (Act 25 of 1999)?	YES	NO
If yes, please submit or, make sure that the applicant or a specialist submits the necessary application to SAHRA or the relevant provincial heritage agency and attach proof thereof to this application if such application has been made.		

### Alternative S3 (if any)

Are there any signs of culturally or historically significant elements, as defined in section 2 of the National Heritage Resources Act, 1999, (Act No. 25 of 1999), including archaeological or palaeontological sites, on or close (within 20m) to the site?	YES	NO
If YES, explain:		
If uncertain, conduct a specialist investigation by a recognised specialist in the field to establish whether there is such a feature(s) present on or close to the site.		
Briefly explain the findings of the specialist:		
Will any building or structure older than 60 years be affected in any way?	YES	NO
Is it necessary to apply for a permit in terms of the National Heritage Resources Act, 1999 (Act 25 of 1999)?	YES	NO
If yes, please submit or, make sure that the applicant or a specialist submits the necessary application to SAHRA or the relevant provincial heritage agency and attach proof thereof to this application if such application has been made.		
Are any further specialist studies recommended by the specialist?	YES	NO
If YES, specify:		
If YES, is such a report(s) attached?		
Signature of specialist:		Date:

# SECTION E: PUBLIC PARTICIPATION

Please note that details of all components of this section must be included under Appendix E to this report.

## 1. ADVERTISEMENT

The environmental assessment practitioner must follow any relevant guidelines adopted by the competent authority in respect of public participation and must at least –

- 1(a) Fix a notice in a conspicuous place, on the property where it is intended to undertake the activity which states that an application will be submitted to the competent authority in terms of these regulations and which provides information on the proposed nature and location of the activity, where further information on the proposed activity can be obtained and the manner in which representations on the application may be made.
- 1(b) inform landowners and occupiers of adjacent land of the applicant's intention to submit an application to the competent authority
- 1(c) inform landowners and occupiers of land within 100 metres of the boundary of the property where it is proposed to undertake the activity and whom may be directly affected by the proposed activity of the applicant's intention to submit an application to the competent authority;
- 1(d) inform the ward councillor and any organisation that represents the community in the area of the applicant's intention to submit an application to the competent authority;
- 1(e) inform the municipality which has jurisdiction over the area in which the proposed activity will be undertaken of the applicant's intention to submit an application to the competent authority; and
- 1(f) inform any organ of state that may have jurisdiction over any aspect of the activity of the applicant's intention to submit an application to the competent authority; and
- 1(g) place a notice in one local newspaper and any *Gazette* that is published specifically for the purpose of providing notice to the public of applications made in terms of these regulations.

## 2. CONTENT OF ADVERTISEMENTS AND NOTICES

Advertisements and notices must indicate that an application will be submitted to the competent authority in terms of the EIA regulations, the nature and location of the activity, where further information on the proposed activity can be obtained and the manner in which representations in respect of the application can be made;

## 3. PLACEMENT OF ADVERTISEMENTS AND NOTICES

Where the proposed activity may have impacts that extend beyond the municipal area where it is located, a notice must be placed in at least one provincial newspaper or national newspaper, indicating that an application will be submitted to the competent authority in terms of these regulations, the nature and location of the activity, where further information on the proposed activity can be obtained and the manner in which representations in respect of the application can be made, unless a notice has been placed in any *Gazette* that is published specifically for the purpose of providing notice to the public of applications made in terms of the EIA regulations.

Advertisements and notices must make provision for site alternatives where appropriate.

## 4. DETERMINATION OF APPROPRIATE MEASURES

The practitioner must ensure that the public participation is adequate and must determine whether a public meeting or any other additional measure is appropriate or not based on the particular nature of each case. Special attention should be given to the involvement of local community structures such as Ward Committees, ratepayers associations and traditional authorities where appropriate. **Please note** that public concerns that emerge at a later stage that should have been addressed may cause the competent authority to withdraw any authorisation it may have issued if it becomes apparent that the public participation process was inadequate.

## 5. COMMENTS AND RESPONSE REPORT

The practitioner must record all comments and respond to each comment of the public before the application is submitted. The comments and responses must be captured in a comments and response report as prescribed in the EIA regulations and be attached to this application. The comments and response report must be attached under Appendix E.

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## 6. PARTICIPATION BY DISTRICT, LOCAL AND TRADITIONAL AUTHORITIES

District, local and traditional authorities (where applicable) are all key interested and affected parties in each application and no decision on any application will be made before the relevant local authority is provided with the opportunity to give input. The planning and the environmental sections of the local authority must be informed of the application at least 30 (thirty) calendar days before the submission of the application.

Has any comment been received from the district municipality?

YES  NO

If "YES", briefly describe the feedback below (also attach any correspondence to and from this authority with regard to this application):

[Redacted]

Has any comment been received from the local municipality?

YES  NO

If "YES", briefly describe the feedback below (also attach any correspondence to and from this authority with regard to this application):

[Redacted]

Has any comment been received from a traditional authority?

YES  NO

If "YES", briefly describe the feedback below (also attach any correspondence to and from this authority with regard to this application):

[Redacted]

## 7. CONSULTATION WITH OTHER STAKEHOLDERS

Any stakeholder that has a direct interest in the site or property, such as servitude holders and service providers, should be informed of the application at least 30 (thirty) calendar days before the submission of the application and be provided with the opportunity to comment.

Has any comment been received from stakeholders?

YES  NO

If "YES", briefly describe the feedback below (also attach copies of any correspondence to and from the stakeholders to this application):

Refer to comments from I & AP's in Appendix E.

# SECTION F: IMPACT ASSESSMENT

The assessment of impacts must adhere to the minimum requirements in the EIA Regulations, 2006, and should take applicable official guidelines into account. The issues raised by interested and affected parties should also be addressed in the assessment of impacts.

**Please note that details of all components of this section must be included under Appendix F to this report.**

## 1. ISSUES RAISED BY INTERESTED AND AFFECTED PARTIES

List the issues raised by interested and affected parties.

See I&APs' comments in Appendix E

Response from the practitioner to the issues raised by the interested and affected parties (A full response must be given in the Comments and Response Report that must be attached to this report):

See Appendix E for issues trial to date.

## 2. IMPACTS THAT MAY RESULT FROM THE PLANNING AND DESIGN PHASE

### a. Site alternatives

List the potential impacts associated with site alternatives that are likely to occur during the planning and design phase:

#### Alternative S1 (preferred alternative)

##### **Direct impacts:**

Inappropriate soft engineering equipment used;  
 Inefficient sand cover for rehabilitating the pool;  
 Unable to establish efficient rock shelves next to the pool walls;  
 Exposure of embankment and possible degradation of it during wave action;  
 Possible increased safety concern if not all parts of pool removed;  
 Exposure of restaurant and other buildings during future storm events;  
 Change in estuary due to increased wave action in mouth and possible shift of estuary mouth.

##### **Indirect impacts:**

Inappropriate rehabilitation of the pool;  
 More degradation of the embankment & buildings;  
 Decreased safety to the public;  
 Pollution of surrounding areas including ocean and estuary.;  
 Negative impact on businesses in the area.

##### **Cumulative impacts:**

Long term erosion through inappropriate placement of infrastructure and choice of engineering options;  
 Decrease in usage of main beach due to removal of pool;  
 Change in character of Southbroom Main Beach and resultant impact on tourism.

#### Alternative S2 (if any)

##### **Direct impacts:**

##### **Indirect impacts:**

##### **Cumulative impacts:**

#### Alternative S3 (if any)

##### **Direct impacts:**

##### **Indirect impacts:**

##### **Cumulative impacts:**

#### No-go alternative (compulsory)

##### **Direct impacts:**

Ongoing erosion and degradation of beachfront.  
 Unsafe public infrastructure and beachfront.

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Loss of sentimental value of the pool, by the community  
 Continued threats to the public and the tourist  
 Reduction in tourist attraction with the Southbroom main beach

**Indirect impacts:**  
 Decrease in tourism to area.  
 Liability of accidents as a result of unsafe tidal pool infrastructure.

**Cumulative impacts:**  
 Long term continued degradation of coastal amenities and its resultant negative impacts on the socio-economy

Indicate mitigation measures to manage the potential impacts listed above:

Alternative S1	Alternative S2	Alternative S3
Provide mechanism to ensure that during decommissioning, no rubble is disposed of in the sea; Compile work method to ensure minimum pollution of adjacent areas during rehab or demolition; Ensure overall mechanism used is sustainable; Ensure embankment will not be washed away after removal of pool and that buildings will be safe from future tidal surge events.		

**b. Process, technology, layout or other alternatives**

List the impacts associated with any process, technology, layout or other alternatives that are likely to occur during the planning and design phase (please list impacts associated with each alternative separately):

**Alternative A1 (preferred alternative) Demolish and then rehabilitate**

**Direct impacts:**  
 Negative impact of concrete being washed out to the sea;  
 Inefficient use of blasting technique which could cause have a detrimental effect on sealife and estuarine environment,  
 Exposure of embankment and buildings to possible future tidal surge events;  
 Loss of use of tidal pool.  
**Indirect impacts:**  
 Negative impact on the coastal fauna & flora;  
 Increases safety issue of people using the sea- nowhere to swim that is safe after rainfall events.  
 Decreased usage of Southbroom main beach and effect on tourism and economy of area.  
**Cumulative impacts:**  
 Negative tourist attraction of the south broom Main beach as a whole;  
 Decrease in tourism to Hibiscus Coast municipal area and decrease in surrounding property values.  
 Continued loss of land (embankment) and infrastructure due to tidal surge events.

**Alternative A2 (if any) Decommission without demolishing, but rather filling the pool with sand**

**Direct impacts:**  
 Use of sand from adjacent beach- depletion of beach;  
 Dust being generated by the sand filling process;  
 Designated tracks for moving of traffic i.e. truck to fill in the pool;  
 Loss of use of tidal pool.  
**Indirect impacts:**  
 Increases safety risks of people using the beach – nowhere safe to swim after rainfall events;  
 Depletion of beach sand resources.  
**Cumulative impacts:**  
 Negative tourist attraction of the Southbroom Main beach as a whole;  
 Decrease in tourism to Hibiscus Coast municipal area and decrease in surrounding property values.

**Alternative A3 (if any) Repairing and reinstating the pool**

**Direct impacts:**  
 Use of resources to repair pool;  
 Increased safety associated with using the pool;  
 Ongoing maintenance cost associated.  
**Indirect impacts:**  
 Increases safety of people using the pool;  
 Increase of visitors using the area.  
**Cumulative impacts:**  
 Positive impact on businesses in area due to increased usage of the area.

**No-go alternative (compulsory)**

**Direct impacts:**  
 Increased risk of unsafety to neighbouring public and private users of the Southbroom main beach tidal pool;  
 Ongoing degradation of the tidal pool.  
**Indirect impacts:**  
 Negative visual / aesthetic impact;  
 Fewer visitors at the Southbroom main beach.  
**Cumulative impacts:**  
 Negative impact on businesses in the area.

Indicate mitigation measures to manage the potential impacts listed above:

<b>Alternative A1:</b>	<b>Alternative A2:</b>	<b>Alternative A3:</b>
Manual removal of pool preferred above blasting; Assess risk to surrounding infrastructure if pool is removed; Compile work method to ensure no pollution of surrounding areas during removal of pool; Promote alternative site for swimming – Granny's pool.	Ensure sand is taken from area of beach where it is continuously replenished; Promote alternative site for swimming – Granny's pool; Create awareness of safety risk associated with swimming at this beach during high tide; Develop remaining area to attract tourists to the area.	Carry out washboring in the area concerned to establish the depth of the rock shelves next to the pool walls. Remove the sand cover over short sections during low water, and place geofabric bags and pump concrete into bags until it forms a solid closure between the rock shelf and the roof of the cavities. Pump additional concrete in the remaining cavities. This can be done through 110mm(min.) diameter holes drilled through the pool floor or through pipes placed between the

		geofabric bags. Destroy slabs further by blasting. Removal of the slabs will increase bathing safety. Large rocks could be used by placing them at the NE Corner of the main pool.
--	--	---

### 3. IMPACTS THAT MAY RESULT FROM THE CONSTRUCTION PHASE

#### a. Site alternatives

List the potential impacts associated with site alternatives that are likely to occur during the construction phase:

##### Alternative S1 (preferred site)

###### Direct impacts:

- Vehicular access to beach – compaction of sediment, alteration of beach profile, disturbing habitats;
- Unrestricted movement of sediment across the beach;
- Generation of noise;
- Generation of building rubble (waste);
- Generation of excavated material (sand);
- Resource consumption (fuel, energy);
- Spillage of hydrocarbons and pollution to immediate and surrounding area / environment;
- Dust generation;
- Temporary inconvenience to public in accessing parking areas, beach and infrastructure.
- Increased risk to public from construction activities and vehicles;
- Potential damage and degradation of surrounding coastal zone through construction activities;
- Traffic impact in roads leading to main beach.

###### Indirect impacts:

- Potential increased runoff and erosion from sites due to construction activities;
- Decrease potential of landfill sites due to disposal of rubble;.
- Increased strain on natural resources;
- Reduced public safety risk from damaged construction activities;

###### Cumulative impacts:

- Risk of further damage and degradation to embankments and infrastructure utilised by the public;
- Potential change in beach profile and flow of estuary mouth.

##### Alternative S2 (if any)

###### Direct impacts:

###### Indirect impacts:

###### Cumulative impacts:

##### Alternative S3 (if any)

###### Direct impacts:

###### Indirect impacts:

###### Cumulative impacts:

##### No-go alternative (compulsory)

###### Direct impacts:

- Increase unsafety of the Southbroom community;
- Ongoing erosion of tidal pool, which creates more safety risk to the community and tourists.
- Decrease in safety posed by the undermining of the Southbroom Tidal Pool.

###### Indirect impacts:

- Negative visual / aesthetic impact.
- Fewer visitors to the Southbroom Main beach.
- Negative impact on businesses in the area.

###### Cumulative impacts:

- Addition of suspended sands to marine system and beach;
- Decrease in tourism to Hibiscus Coast municipal area.

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- Decrease in neighbouring property values due to increased risk.

Indicate mitigation measures to manage the potential impacts listed above:

Alternative S1	Alternative S2	Alternative S3
Management of vehicular access onto and across beach; Management of vehicles on sites; Management of stock piles at sites; Source sand for rehabilitation from acceptable sources; Limit noise generation to day time operations; Limit dust generation only to certain areas and during certain times. Consider dust suppression should excessive dust result in complaints; All building rubble generated moved to certified landfill site and proof thereof kept on record; Manage construction vehicle access to beachfront sites along single access routes; Manage runoff from sites through storm water controls and diversion away from construction site;  Manage public access to beach along specific routes; Minimise usage of natural resources by preventing wastage.		

### b. Process, technology, layout or other alternatives

List the impacts associated with process, technology, layout or other alternatives that are likely to occur during the construction phase (please list impacts associated with each alternative separately):

#### Alternative A1 (preferred alternative) Demolish and then rehabilitate

**Direct impacts:**

- Vehicular access to beach – compaction of sediment, alteration of beach profile, disturbing habitats;
- Unrestricted movement of sediment across the beach;
- Generation of noise;
- Generation of building rubble (waste);
- Generation of excavated material (sand);
- Resource consumption (fuel, energy);
- Spillage of hydrocarbons and pollution to immediate and surrounding area / environment;
- Dust generation;
- Temporary inconvenience to public in accessing parking areas, beach and infrastructure.
- Increased risk to public from construction activities and vehicles;
- Potential damage and degradation of surrounding coastal zone through construction activities;
- Traffic impact in roads leading to main beach.

**Indirect impacts:**

- Potential increased runoff and erosion from sites due to construction activities;
- Decrease potential of landfill sites due to disposal of rubble;
- Increased strain on natural resources;
- Reduced public safety risk from damaged construction activities

**Cumulative impacts:**

- Risk of further damage and degradation to embankments and infrastructure utilised by the public;
- Potential change in beach profile and flow of estuary mouth.

#### Alternative A2 Decommission without demolishing, but rather filling the pool with sand

**Direct impacts:**

- Vehicular access to beach – compaction of sediment, alteration of beach profile, disturbing habitats;
- Generation of noise;
- Resource consumption (fuel, energy);
- Spillage of hydrocarbons and pollution to immediate and surrounding area / environment;
- Dust generation;
- Temporary inconvenience to public in accessing parking areas, beach and infrastructure.
- Increased risk to public from construction activities and vehicles;

<ul style="list-style-type: none"> <li>▪ Potential damage and degradation of surrounding coastal zone through construction activities;</li> <li>▪ Traffic impact in roads leading to main beach.</li> </ul> <p><b>Indirect impacts:</b></p> <ul style="list-style-type: none"> <li>▪ Potential increased runoff and erosion from sites due to construction activities;</li> <li>▪ Increased strain on natural resources;</li> <li>▪ Reduced public safety risk from damaged construction activities.</li> </ul> <p><b>Cumulative impacts:</b></p> <ul style="list-style-type: none"> <li>▪ Negative tourist attraction of the south broom Main beach as a whole;</li> <li>▪ Decrease in tourism to Hibiscus Coast municipal area and decrease in property values.</li> </ul>
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**Alternative A3 Repairing and reinstating the pool**

<p><b>Direct impacts:</b></p> <ul style="list-style-type: none"> <li>▪ Vehicular access to beach – compaction of sediment, alteration of beach profile, disturbing habitats;</li> <li>▪ Generation of noise;</li> <li>▪ Generation of building rubble (waste);</li> <li>▪ Resource consumption (fuel, energy);</li> <li>▪ Spillage of hydrocarbons and pollution to immediate and surrounding area / environment;</li> <li>▪ Dust generation;</li> <li>▪ Temporary inconvenience to public in accessing parking areas, beach and infrastructure.</li> <li>▪ Increased risk to public from construction activities and vehicles;</li> <li>▪ Potential damage and degradation of surrounding coastal zone through construction activities;</li> <li>▪ Traffic impact in roads leading to main beach.</li> </ul> <p><b>Indirect impacts:</b></p> <p>Health hazard; Reduce health safety for the beach users at Southbroom main beach; Contamination of the sea and its livestock with concrete and cement.</p> <p><b>Cumulative impacts:</b></p> <ul style="list-style-type: none"> <li>▪ Negative tourist attraction of the south broom Main beach as a whole;</li> <li>▪ Decrease in tourism to Hibiscus Coast municipal area and decrease in property values.</li> </ul>
--

**No-go alternative (compulsory)**

<p><b>Direct impacts:</b></p> <ul style="list-style-type: none"> <li>▪ Ongoing erosion of beachfront infrastructure during construction.</li> <li>▪ Ongoing erosion of the tidal pool;</li> <li>▪ Unsafe of the tidal pool;</li> </ul> <p><b>Indirect impacts:</b></p> <ul style="list-style-type: none"> <li>▪ Negative visual / aesthetic impact;</li> <li>▪ Fewer visitors to beach areas;</li> <li>▪ Injuries caused by the use of the tidal pool.</li> </ul> <p><b>Cumulative impacts:</b></p> <ul style="list-style-type: none"> <li>▪ Decrease in tourism to Hibiscus Coast municipal area and decrease in value of neighbouring private property due to increased risk.</li> </ul>
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Indicate mitigation measures to manage the potential impacts listed above:

<b>Alternative A1:</b>	<b>Alternative A2:</b>	<b>Alternative A3:</b>
Ensure an ECO is on site during construction phase; Apply the principles of retreat in planning and designs should area have eroded again; Evaluate designs and provide recommendations to limit, reduce potential impacts within the sensitive coastal zone areas; Minimize usage of resources where possible; Implement dust suppression measures; All waste to certified landfill site; Minimize generation of waste; Limit public access to construction sites; Limit access to beach area during construction.	Minimize usage of resources where possible; Implement dust suppression measures; Ensure an ECO is on site during construction phase; All waste to certified landfill site; Minimize generation of waste; Limit public access to construction site; Limit access to beach area during construction; Compile maintenance plan and include in future budget requirements for Hibiscus Coast Municipality; Apply the principles of retreat in planning and designs should area have eroded again; Evaluate designs and provide recommendations to limit, reduce potential impacts within the sensitive areas of the beach.	Minimize usage of resources where possible Implement dust suppression measures Ensure an ECO is on site during construction phase; All waste to certified landfill site; Minimize generation of waste; Limit public access to construction site; Limit access to beach area during construction; Compile maintenance plan and include in future budget requirements for Hibiscus Coast Municipality; Apply the principles of retreat in planning and designs should area have eroded again; Evaluate designs and provide recommendations to limit, reduce potential impacts within the sensitive areas of the beach..

#### 4. IMPACTS THAT MAY RESULT FROM THE OPERATIONAL PHASE

##### a. Site alternatives

List the potential impacts associated with site alternatives that are likely to occur during the operational phase:

###### Alternative S1 (preferred alternative)

**Direct impacts:**

- Promotes safety of the Southbroom society;
- Reduce safety hazard posed by the undermining of the Southbroom Tidal Pool;
- Increased tourism to area;
- Positive impact: Protection of sensitive environment and public infrastructure against future damage of the pool.

**Indirect impacts:**

- Positive impact: Increased aesthetics / visual impact;
- Positive impact: Increased safety and improved access to beach and infrastructure;
- Improved aesthetics.

**Cumulative impacts:**

- Increased tourism to area;
- Increased safety to users of the beach area.

###### Alternative S2 (if any)

**Direct impacts:**

**Indirect impacts:**

**Cumulative impacts:**

###### Alternative S3 (if any)

**Direct impacts:**

**Indirect impacts:**

**Cumulative impacts:**

###### No-go alternative (compulsory)

**Direct impacts:**

- Ongoing erosion of beachfront infrastructure during construction.
- Ongoing erosion of the tidal pool;
- Unsafe of the tidal pool;

**Indirect impacts:**

- Negative visual / aesthetic impact;
- Fewer visitors to beach areas;
- Injuries caused by the use of the tidal pool.

**Cumulative impacts:**

- Decrease in tourism to Hibiscus Coast municipal area and decrease in value of neighbouring private property due to increased risk..

Indicate mitigation measures to manage the potential impacts listed above:

###### Alternative S1

- Ongoing monitoring of functionality of the new situation;
- Promote usage of the area with tourists;
- Ensure safety of the public by having enough lifeguards.

###### Alternative S2

###### Alternative S3

**b. Process, technology, layout or other alternatives**

List the impacts associated with process, technology, layout or other alternatives that are likely to occur during the operational phase (please list impacts associated with each alternative separately):

**Alternative A1 (preferred alternative) Demolish and then rehabilitate**

<p><b>Direct impacts:</b></p> <ul style="list-style-type: none"> <li>▪ Continued risk to embankments and buildings during tidal surge events;</li> <li>▪ Loss of safe swimming area after rainfall events;</li> <li>▪ Less usage of the area due to decreased visitors to the area.</li> </ul> <p><b>Indirect impacts:</b></p> <ul style="list-style-type: none"> <li>▪ Possible future change in character of area and movement of estuary mouth;</li> </ul> <p><b>Cumulative impacts:</b></p> <ul style="list-style-type: none"> <li>▪ Risk of exposure to buildings and businesses in the area.</li> </ul>
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**Alternative A2 Decommission without demolishing, but rather filling the pool with sand**

<p><b>Direct impacts:</b></p> <ul style="list-style-type: none"> <li>▪ Loss of safe swimming area after rainfall events;</li> <li>▪ Increased risk to bathers making use of the beach;</li> <li>▪ Decrease of visitors to the area.</li> <li>▪ Possible future degradation of pool.</li> </ul> <p><b>Indirect impacts:</b></p> <ul style="list-style-type: none"> <li>▪ Less visitors to the area.</li> </ul> <p><b>Cumulative impacts:</b></p> <ul style="list-style-type: none"> <li>▪ Negative effect on businesses in the area.</li> </ul>
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**Alternative A3 Repairing and reinstating the pool**

<p><b>Direct impacts:</b></p> <ul style="list-style-type: none"> <li>▪ Safe area to swim during adverse sea conditions;</li> <li>▪ Retention of landmark in Southbroom;</li> <li>▪ Ongoing maintenance costs for HCM.</li> </ul> <p><b>Indirect impacts:</b></p> <ul style="list-style-type: none"> <li>▪ Possible future requirements to repair pool again- ongoing costs;</li> <li>▪ Increase in usage of area.</li> </ul> <p><b>Cumulative impacts:</b></p> <ul style="list-style-type: none"> <li>▪ Ongoing liability for HCM.</li> </ul>
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**No-go alternative (compulsory)**

<p><b>Direct impacts:</b></p> <ul style="list-style-type: none"> <li>▪ Ongoing erosion of beachfront infrastructure during construction.</li> <li>▪ Ongoing erosion of the tidal pool;</li> <li>▪ Unsafe of the tidal pool;</li> </ul> <p><b>Indirect impacts:</b></p> <ul style="list-style-type: none"> <li>▪ Negative visual / aesthetic impact;</li> <li>▪ Fewer visitors to beach areas;</li> <li>▪ Injuries caused by the use of the tidal pool.</li> </ul> <p><b>Cumulative impacts:</b> Decrease in tourism to Hibiscus Coast municipal area and decrease in value of neighbouring private property due to increased risk..</p>
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Indicate mitigation measures to manage the potential impacts listed above:

Alternative A1	Alternative A2	Alternative A3
<ul style="list-style-type: none"> <li>▪ Initiate monitoring programme and implement required mitigation measures when necessary- retreat of buildings in future is a possibility;</li> <li>▪ Assess the need to place protection for infrastructure and embankment in terms of possible future damage.</li> <li>▪ Compile development plan for the area to attract tourism.</li> </ul>	<ul style="list-style-type: none"> <li>▪ Ongoing monitoring and possible repair of sections the embankment which are damaged in future erosion events;</li> <li>▪ Implement retreat and soft engineering options in future designs if required;</li> <li>▪ Raise awareness of decreased safety to swimmers at the main beach;</li> <li>▪ Compile development plan for the area to attract tourism.</li> </ul>	<ul style="list-style-type: none"> <li>▪ Continuous monitoring of status of bags and immediate repair of any damage if detected;</li> <li>▪ Monitor engineering defense mechanisms and replaced infrastructure;</li> <li>▪ Ongoing monitoring and possible repair of sections of the pool and embankment which are damaged in future erosion events;</li> <li>▪ Implement retreat and soft engineering options in future designs if required.</li> </ul>

**5. IMPACTS THAT MAY RESULT FROM THE DECOMMISSIONING OR CLOSURE PHASE**

**a. Site alternatives**

List the potential impacts associated with site alternatives that are likely to occur during the decommissioning or closure phase:

**Alternative S1 (preferred alternative)**

**Direct impacts:**  
Not applicable

**Indirect impacts:**  
Not applicable

**Cumulative impacts:**  
Not applicable

**Alternative S2**

**Direct impacts:**

**Indirect impacts:**

**Cumulative impacts:**

**Alternative S3**

**Direct impacts:**

**Indirect impacts:**

**Cumulative impacts:**

**No-go alternative (compulsory)**

**Direct impacts:**  
Not applicable

**Indirect impacts:**  
Not applicable

**Cumulative impacts:**  
Not applicable

Indicate mitigation measures to manage the potential impacts listed above:

**Alternative S1**

**Alternative S2**

**Alternative S3**

Not applicable

**b. Process, technology, layout or other alternatives**

List the impacts associated with process, technology, layout or other alternatives that are likely to occur during the decommissioning or closure phase (please list impacts associated with each alternative separately):

**Alternative A1 (preferred alternative)**

**Direct impacts:**  
Not applicable

**Indirect impacts:**  
Not applicable

**Cumulative impacts:**  
Not applicable

**Alternative A2**

**Direct impacts:**  
Not applicable

**Indirect impacts:**

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Not applicable

**Cumulative impacts:**  
Not applicable

**Alternative A3**

**Direct impacts:**  
Not applicable

**Indirect impacts:**  
Not applicable

**Cumulative impacts:**  
Not applicable

**No-go alternative (compulsory)**

**Direct impacts:**  
Not applicable

**Indirect impacts:**  
Not applicable

**Cumulative impacts:**  
Not applicable

Indicate mitigation measures to manage the potential impacts listed above:

**Alternative A1**

Not applicable

**Alternative A2**

**Alternative A3**

### C. PROPOSED MONITORING AND AUDITING

For each phase of the project and for each alternative, please indicate how identified impacts and mitigation will be monitored and/or audited.

Alternative S1 (preferred site)	Alternative S2	Alternative S3
<p>Through ECO(ECO to be appointed by the client, in order to ensure efficient monitoring is achieved) monitoring and an Environmental Management Plan (EMP) ensure the following is addressed:            Design            Review proposed project scope against DAE&amp;RD Best Practice Guide            The following should be monitored by the ECO during the construction phase:            All waste to registered landfill (waybills to be checked);            Limit construction activities resulting in noise generation to day time only;            Dust mitigatory measures are employed to certain areas and during certain times;            Spillages are cleaned up at the beach;            Demarcate of site and no-go sensitive areas;            Demarcation of construction site / areas and prevent public access to these sites;            Monitoring of vehicle usage on beach;            Implement fines as part of contract for willful negligence or non-compliance;            Monitor complaints, investigate and implement rectifying measures;            Monitor areas for pollution and degradation. Ensure implementation of identified rectifying measures.            Operation:            Rehabilitation of any damage to sensitive areas, including potential erosion from construction activities or storm water run-off;            Monitoring of sea defence systems and soft engineering public infrastructure for damage / wear &amp; tear. Ensure appropriate annual budgets for maintenance and implement appropriate maintenance;            Implement a process to capture &amp; address public recommendations, complaints and / or requests.  <b>Audit:</b></p> <ul style="list-style-type: none"> <li>▪ EMP adherence.</li> <li>▪ Appoint Environmental Control Officer.</li> <li>▪ Compile monthly report.</li> </ul>		
<p><b>Alternative A1 (preferred alternative)</b> - Demolish and then rehabilitate</p>	<p><b>Alternative A2</b> - Decommission without demolishing, but rather filling the pool with sand</p>	<p><b>Alternative A3</b> - Repairing and reinstating the pool</p>
<p>Through ECO monitoring and an Environmental Management Plan (EMP) which addresses:</p>	<p>Through ECO monitoring and an Environmental Management Plan (EMP) which addresses:</p>	<p>Through ECO monitoring and an Environmental Management Plan (EMP) which addresses:</p>
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<p><b>Design:</b> 1. Assess erosion after future storm events.</p> <p><b>Construction:</b> Ensure an ECO is on site during construction phase; Apply the principles of retreat in planning and designs should area have eroded again; Evaluate designs and provide recommendations to limit, reduce potential impacts within the sensitive coastal zone areas; Minimize usage of resources where possible; Implement dust suppression measures; All waste to certified landfill site; Minimize generation of waste; Limit public access to construction sites; Limit access to beach area during construction.</p> <p><b>Operational:</b> Ongoing monitoring to repair any damage to surrounding buildings or embankment; Implement retreat over time. Initiate monitoring programme and implement required mitigation measures when necessary- retreat of buildings in future is a possibility; Assess the need to place protection for infrastructure and embankment in terms of possible future damage. Compile development plan for the area to attract tourism.</p> <p><b>Audit:</b> EMP adherence. Appoint Environmental Control Officer. Compile monthly report.</p>	<p><b>Design:</b> Ensure sand is taken from area of beach where it is continuously replenished; Promote alternative site for swimming – Granny’s pool; Create awareness of safety risk associated with swimming at this beach during high tide; Develop remaining area to attract tourists to the area</p> <p><b>Construction:</b> Minimize usage of resources where possible; Implement dust suppression measures; Ensure an ECO is on site during construction phase; All waste to certified landfill site; Minimize generation of waste; Limit public access to construction site; Limit access to beach area during construction; Compile maintenance plan and include in future budget requirements for Hibiscus Coast Municipality; Apply the principles of retreat in planning and designs should area have eroded again; Evaluate designs and provide recommendations to limit, reduce potential impacts within the sensitive areas of the beach..</p> <p><b>Operational:</b> Ongoing monitoring and possible repair of sections the embankment which are damaged in future erosion events; Implement retreat and soft engineering options in future designs if required; Raise awareness of decreased safety to swimmers at the main beach; Compile development plan for the area to attract tourism</p> <p><b>Audit:</b> EMP adherence. Appoint Environmental Control Officer. Compile monthly report.</p>	<p><b>Design:</b> Carry out washboring in the area concerned to establish the depth of the rock shelves next to the pool walls. Remove the sand cover over short sections during low water, and place geofabric bags and pump concrete into bags until it forms a solid closure between the rock shelf and the roof of the cavities. Pump additional concrete in the remaining cavities.This can be done through 110mm(min.) diameter holes drilled through the pool floor or through pipes placed between the geofabric bags. Destroy slabs further by blasting. Removal of the slabs will increase bathing safety. Large rocks could be used by placing them at the NE Corner of the main pool.</p> <p><b>Construction:</b> Minimize usage of resources where possible Implement dust suppression measures Ensure an ECO is on site during construction phase; All waste to certified landfill site; Minimize generation of waste; Limit public access to construction site; Limit access to beach area during construction; Compile maintenance plan and include in future budget requirements for Hibiscus Coast Municipality; Apply the principles of retreat in planning and designs should area have eroded again; Evaluate designs and provide recommendations to limit, reduce potential impacts within the sensitive areas of the beach..</p> <p><b>Operational:</b> Continuous monitoring of status of bags and immediate repair of any damage if detected; Monitor engineering defense mechanisms and replaced infrastructure; Ongoing monitoring and possible repair of sections of the pool and embankment which are damaged in future erosion events; Implement retreat and soft engineering options in future designs if required</p> <p><b>Audit:</b> EMP adherence. Appoint Environmental Control Officer. Compile monthly report.</p>
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**D. ENVIRONMENTAL IMPACT STATEMENT**

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Taking the assessment of potential impacts into account, please provide an environmental impact statement that sums up the impact that the proposed activity and its alternatives may have on the environment after the management and mitigation of impacts have been taken into account with specific reference to their type, likelihood, duration and the significance.

**Alternative S1 (preferred site)**

There are no alternatives to the sites listed.  
Infrastructure to be removed/ rehabilitated according to recommendations based on DAE&RD recommendations. Potential impacts during the design, construction and operational phase to be addressed in accordance with mitigation measures and EMP.

**Alternative S2**

**Alternative S3**

**Alternative A1 (preferred alternative) Demolish and then rehabilitate**

This option is preferred due to the environmental gain for the area. The recommendations link with the recommendations of the coastal management specialist report (Appendix D). The benefit is also to safety in the area.

**Alternative A2 Decommission without demolishing, but rather filling the pool with sand**

This option does not allow for any retreat nor does it allow any soft engineering structures. It will be prone to erosion again in the near future and is not a long term sustainable option. This option will have a short term positive effect on safety in the area.

**Alternative A3 Repairing and reinstating the pool**

This option will have a long term positive effect on tourism in the area. The recommendations link with the recommendations of the specialist report (Appendix D) if it can be shown that the community at large will benefit from this. The ongoing maintenance costs will be a liability for HCM.

**No-go alternative (compulsory)**

The option to keep the pool as is and not rehabilitate and repair the infrastructure will lead to continued degradation and erosion of the existing pool over time. Public will still be exposed safety risk from using the pool. It will also continue the current negative impact on tourism and resultant loss of income for businesses in the area.

**E. RECOMMENDATION OF PRACTITIONER**

Is the information contained in this report and the documentation attached hereto sufficient to  **YES**  **NO** make a decision in respect of the activity applied for (in the view of the environmental assessment practitioner).

If "NO", indicate the aspects that should be assessed further as part of a Scoping and EIA process before a decision can be made (list the aspects that require further assessment):

If "YES", please list any recommended conditions, including mitigation measures that should be considered for inclusion in any authorisation that may be granted by the competent authority in respect of the application:

- A maintenance plan should be developed and implemented and funded by the Municipality if the pool is reinstated,
- No access should be allowed to sensitive environments and due care should be taken to prevent any negative impacts e.g. disposal of waste, clearing of vegetation, etc;
- The protection of infrastructure and the embankment upon removal of the pool, should be taken into consideration and a area wide development plan should be compiled for this area, allowing for retreat of facilities and promoting usage of the area by tourists;
- The EMP and conditions within it should be adhered to;
- ECO to be appointed and all contractor staff to be trained on the EMP and Environmental Authorization requirements prior to commencement of activities;
- Fines to be implemented for the willful degradation or damage to sensitive environments or protected species;
- Long term monitoring of impacts of infrastructure and defence mechanisms with required maintenance.

# APPENDICES

The following appendixes must be attached as appropriate:

Appendix A: Site plan(s)

Appendix B: Photographs

Appendix C: Facility illustration(s)

Appendix D: Specialist reports

Appendix E: Details of the public participation process including the comments and responses report

Appendix F: Details of the impact assessment

Appendix G: Other information