



SUPPLEMENTARY WATER USE INFORMATION

Section 21(c) and (f) Water Uses

Section 21(c) ~ impeding or diverting the flow of water in a watercourse
 Section 21(f) ~ altering the bed, banks, course or characteristics of a watercourse

Please read:

- (1) The requirements of this form should be discussed with the relevant Regional Office and Primary Responsible Official for these water uses during a pre-application consultation meeting and documented agreement reached in terms of:
 - (a) Assistance and information to be supplied by the Department (e.g. procedures (refer items 1.2.3 and 1.2.4), management objectives etc.) - this is of particular reference to emerging water users that are not in a position to provide the information as required in this form; and
 - (b) The scale and level of detail required.
- (2) Should any of the supporting documentation to the licence application (e.g. Technical Report, Environmental Impact Assessment Report, Environmental Management Plan or Programme) already contain the requested information below, the applicant is not required to duplicate the information. In such instances, a comprehensive list of these documents must be compiled and this form must be completed by referring to the relevant sections in the supporting documentation.
- (3) All maps, Google images, drawings and plans must be at an appropriate detailed scale and have sufficient annotations (North arrow, line scale, legend, co-ordinates, etc.) and must be recent (at least 6 months) representations.
- (4) All supporting documentation and reports must be final documents signed off by both the applicant and the compiler of the report.
- (5) Information requirements in respect of Section 27 of the National Water Act, 1998 (Act No. 36 of 1998) [NWA] that have to be considered in the issuing of a licence, are appropriately incorporated and indicated in this form (e.g. item 2.2.3 <Provide information to support efficient and beneficial use of water in the public interest refer Section 27(1)(c)>).
- (6) This form may be updated from time to time as required to comply with best practice and legal requirements. When completing this form, clearly date it since it will be evaluated against the information requirements related to the edition of the form at that time.

1 Watercourse Attributes	
1.1 Locality	<p>1.1.1. <Provide a description of the location of the watercourse at which the water user/s is to take place> Refer to Appendix 14 of the WULA: Vegetation Assessment & Wetland Delineation.</p> <p>1.1.2. <Provide a locality map/s indicating the relevant catchment¹, surrounding land use, towns, infrastructure etc.> Refer to Appendix 8 of the WULA: Topographic Map And Refer to Appendix 9 of the WULA: Master Layout Plans.</p> <p>1.1.3. <Provide the catchment reference number> U205.</p>
1.2 Description	<p>1.2.1. <Provide the name and/or description of the affected watercourse> Refer to the Table of Affected Water courses (last folder)</p>

¹ The order of the catchment is to be verified with the relevant Regional Office and Primary Responsible Official

1. Watercourse Attributes

<p>1.2.2. <Provide a map with accompanying photographs (dated) indicating the segment and affected reaches of the watercourse in which the water use/s is to take place and which indicates/delineates the regulated area² including:</p> <p>1.2.2.1. The extent of the riparian habitat; and</p> <p>1.2.2.2. The 1:100 year flood line></p> <p style="text-align: center;"><i>Refer to Appendix 14 of the WULA: Vegetation Assessment & Wetland Delineation And Refer to Appendix 9 of the WULA: Master Layout Plans</i></p>	<p>1.2.3. <Describe within context of the immediate catchment and segment, the historic as well as current state (Present Ecological State or PES) of the affected reaches of the watercourse with regards to the following characteristics (attributes)³:</p> <p>1.2.3.1. Flow and sediment regimes (quantity, pattern, timing, water level and assurance of in stream flow):</p> <p>1.2.3.2. Water quality (including the physical, chemical and biological characteristics of the water) in relation to the flow regime</p> <p>1.2.3.3. Riparian and In stream Habitat</p> <p>1.2.3.3.1. Morphology (physical structure)</p> <p>1.2.3.3.2. Vegetation</p> <p>1.2.3.4. Biota></p> <p style="text-align: center;"><i>Refer to Appendix 14 of the WULA: Vegetation Assessment and Wetland Delineation Section 4: And Appendix 16 of the WULA: Aquatic Assessment Section 2.</i></p> <p>1.2.4. <Describe the ecological importance and sensitivity (EIS)⁴ as well as the Socio-</p>
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² The applicant will require a water use authorisation from the Department for any activity within the regulated area which is the outer edge of the riparian habitat or 1:100 year flood line, whichever is the greatest distance from the watercourse. The outer edge of the watercourse must be delineated using the Departmental guideline, *A Practical Field Procedure for Identification and Delineation of Wetlands and Riparian Areas* or *Field method for the delineation of Riparian Zones for South African Rivers*

³ Refer to the WRC Reports on Ecoclassification, specifically Report no IT1 329/08 on determining EcoStatus

1. Watercourse Attributes	
	<p>cultural importance (SI)⁵ of the affected reaches of the watercourse including the functions⁶></p> <p>Refer to Appendix 14 of the WULA: Vegetation Assessment and Wetland Delineation Section 4.</p>
	<p>1.2.5. <Discuss existing land and water use impacts (and threats) on the characteristics of the watercourse></p> <p>Refer to Appendix 14 of the WULA: Vegetation Assessment and Wetland Delineation Section: 4.</p>
	<p>1.2.6. <List and map sensitive environments in proximity of the project locality - sensitive environments include wetlands, nature reserves, protected areas, etc.></p> <p>Refer to Appendix 14 of the WULA: Vegetation Assessment and Wetland Delineation Section 4.</p>

2. Water Use Information	
	<p>2.1.1. <Describe the activities associated with the water users></p> <p>The construction of a 765/400 kV Sub-station on and in close proximity to several Wetlands Tiparian Areas and small Farm dams.</p>
	<p>2.1.2. <Describe the project phases for each activity (i.e. planning, construction, operation and maintenance, decommissioning) including, but not limited to, the programme for and duration of the various phases</p> <p>Refer to Appendix B of the WULA: EMPr sections 4, 5, 6, 7, 8 and 9.</p>
	<p>2.1.3. <Provide a site lay-out plans (master plan) indicating the various activities and existing and proposed infrastructure in relation to the 1:100 flood line and edge of the watercourse, etc. – a letter or certificate by a qualified surveyor must also be submitted that verifies the correctness of the site lay-out plans, in particular for wetlands></p> <p>Refer to Appendix 9 of the WULA: Master Layout Plans and Refer to Appendix 22 of the WULA: Civil Designs.</p>
	<p>2.1.4. <Provide work method statements for the various water use activities></p> <p>Refer to Appendix 20 of the WULA: Construction Methodology.</p>
2.1 Description and Methodology	<p>2.1.5. <Provide engineer design drawing(s) for construction activities within the watercourse></p> <p>Refer to Appendix 22 of the WULA: Civil Designs.</p>

⁴ The EIS of a watercourse is an expression of its importance to the maintenance of ecological diversity and functioning on local and wider scales. Ecological sensitivity refers to the system's ability to resist disturbance and its capability to recover from disturbance once it has occurred. Both biotic and abiotic components of the system are taken into account.

⁵ SI reflects the dependency of people on a healthy functioning watercourse and also to its cultural and tourism potential.

⁶ Refer to the RDM procedure for determining Ecological Importance and Sensitivity

	<p>2.1.6. <Provide a description and a map/s indicating any Storm Water Management Practices (SWMPs) specifically addressing 'end of pipe' practices> Refer to Appendix 21 of the WLLA: Stormwater Management Plans.</p> <p>2.1.7. <Provide information on all existing lawful water uses [Refer Section 27(1)(a)]> N/A</p>
	<p>2.1.8. <Provide information on investments already made and to be made by the water user in respect of the proposed water use/s [Refer Section 27(1)(b)]> Refer to The IWMWP Isundu Technical Report Section 7.3.9.</p> <p>2.1.9. <Indicate and motivate the probable duration of any undertaking for which the water use/s should be authorised [Refer Section 27(1)(c)]> The construction of the Isundu Sub-station will take approximately three years. It will</p>
<p>2.2. Motivation</p>	<p>2.2.1. <Provide information on the need/intention/objective of the water use/s> To improve access to electricity in the surrounding Areas and strengthen the electrical network in kwaZulu -Natal. This improvement can lead to improved economic sector, especially in the surrounding Areas</p> <p>2.2.2. <Provide information on contributions to rectify the results of past racial and gender discrimination [Refer Section 27(1)(d)]> Refer to the Isundu IWMWP Technical Report Section 7.3.2.</p> <p>2.2.3. <Provide information to support efficient and beneficial use of water in the public interest [Refer Section 27(1)(e)]> Refer to the Isundu IWMWP Technical Report Section 7.3.3.</p> <p>2.2.4. <Provide information on relevant catchment management strategies⁷ and local government planning frameworks that support the proposed water use [Refer Section 27(1)(f)]> Refer to the Isundu IWMWP Technical Report Section 7.3.6.</p>

⁷ Refer to the DWAF Broad-Based Black Economic Empowerment (BBBEE) Guidelines For Water Allocation, Final Draft, June 2007 and the Department of Trade and Industry's requirements relating to compliance with the BBBEE Act 2003 (Act No. 53 of 2003)

⁸ The applicant must provide information on how he/she implements the seven elements of BBBEE (i.e. Ownership, Management, Employment equity, Skills development, Procurement, Enterprise development, Socio-economic development) and how this complies with the relevant Sector Charter and score card (e.g. Construction, Agriculture, Mining, Tourism etc). A BBBEE certificate or external verification must accompany the application (refer list of Verification Agents on the Department of Trade and Industry's website)

⁹ Consult the relevant Regional Office and Primary Responsible Official

2.2.5. <Provide information on the strategic importance of the water use to be authorised <u>Refer Section 27(1)(b)</u> > The construction of the Isimdingu Sub-station forms part of the Strategic Infrastructure Projects (SIP10) described in the National Development Plan, 2011.	

3. Impact Assessment and Management	
3.1 Impact Prediction and Assessment	<p>3.1.1. <Provide a prediction and assessment of the likely environmental and socio-economic impacts or effects¹⁰ associated with the water users for the different project phases: Refer to Appendix 11 of the WLLA: EIA Section 10</p> <p>3.1.1.1. On the watercourse and its characteristics as set out in 1.2.3 above <u>Refer Section 27(1)(d)</u> Refer to Appendix 14 of the WLLA: Vegetation Assessment and Wetland Delineation. And Appendix 11 of the WLLA: EIA Section 10.</p> <p>3.1.1.2. On other water users <u>Refer Section 27(1)(d)</u> Refer to Appendix 11 of the WLLA: EIA Section 10</p> <p>3.1.1.3. On the broader public and property Refer to Appendix 11 of the WLLA: EIA Section 10</p> <p>3.1.1.4. If the water users is not authorised <u>Refer Section 27(1)(d)</u> Refer to the Tsundu IWWMP Technical Report Section 7.3.5.</p> <p>3.1.2. <Provide a description of the methodologies employed to undertake impact prediction and assessment as well as a motivation for these> Refer to the Tsundu IWWMP Technical Report Section 5.5.</p>
3.2 Risk Assessment	<p>3.2.1. <Provide an assessment of the risks associated with the water users and related activities> Refer to the Tsundu IWWMP Technical Report Section 5.5.</p> <p>3.3.1. <Describe the alternatives considered to prevent negative impacts on the watercourse with regard to locality, procedures, materials, etc.> Refer to Appendix 10 of the WLLA: Alternatives Report.</p>
3.3 Alternatives	<p>3.4.1. <Provide mitigation measures¹¹ to prevent, reduce, remediate or compensate the pre-determined impacts; also provide emergency responses> Refer to Appendix 13 of the WLLA: Water EIA¹¹ Wetland Rehabilitation Management Plan Refer to Appendix 20 of the WLLA: Construction Methodology Refer to Appendix 21 of the WLLA: Stormwater management Refer to Appendix 22 of the WLLA: Monitoring Programmes. 3.4.2. <Provide a site map/s that marks the limits of disturbance to the watercourse and in particular indicates erosion and sediment controls> Refer to Appendix 16 of the WLLA: Aquatic Assessment Section 4.</p> <p>3.4.3. <If the developer (applicant) of water use related infrastructure is not the end user/beneficiary and will not be responsible for long term maintenance of the infrastructure, provide a programme for hand over to the successor-in-title¹² including a brief management/maintenance plan for infrastructure along with allocation of responsibilities></p>
3.4 Mitigation and Management Measures	

¹⁰ Assess the potential impacts with regard to their nature, extent, magnitude, duration, probability and significance – each impact must be described in terms of source of impact, pathway (propagation of impact) and receptor (target that experience the risk or impact)

¹¹ The mitigation measures should be collated in an Environmental Management Plan (EMMP) - refer to the Department of Environmental Affairs and Tourism's regulations, Government Notice No. R. 385 in Government Gazette No. 28753 of 21 April 2006 for minimum standards

¹² Refer Section 51 of the NWA

3. Impact Assessment and Management

	<p>N/A.</p>
<p>3.5 Changes to the Watercourse</p>	<p>3.5.1. <Assess to what extent the impacts after mitigation will bring about changes in respect of the PES (and recommended ecological category, if this information is available at the stage of study) and functionality of the watercourse: as well as the <u>socio-economic environment</u> (including redress considerations as well impacts on other water users)> Refer to Appendix 14 of the WULA: Vegetation Assessment and Wetland Delineation Section 5. And Appendix 16 of the WULA: Aquatic Assessment Section 4.</p>
<p>3.6 Monitoring and Compliance</p>	<p>3.6.1. <Provide a detailed monitoring programme and describe the auditing, compliance and reporting mechanisms to ensure execution of the mitigation measures and for informing DWAF of incidents – ensure that these measures are appropriate in relation to the impacts, mitigation measures, status of the watercourse, etc.> Refer to Appendix 13 of the WULA: EMP- And Refer to Appendix 23 of the WULA: Monitoring & Programmes</p>