

Appendix E

ADDITIONAL INFORMATION

Appendix E1

EAP DECLARATION AND EXPERTISE



environmental affairs

Department:
Environmental Affairs
REPUBLIC OF SOUTH AFRICA

DETAILS OF THE ENVIRONMENTAL ASSESSMENT PRACTITIONER, DECLARATION OF INTEREST AND UNDERTAKING UNDER OATH

	(For official use only)
File Reference Number:	
NEAS Reference Number:	DEA/EIA/
Date Received:	

Application for authorisation in terms of the National Environmental Management Act, Act No. 107 of 1998, as amended and the Environmental Impact Assessment (EIA) Regulations, 2014, as amended (the Regulations)

PROJECT TITLE

Working for Wetlands Programme

Kindly note the following:

1. This form must always be used for applications that must be subjected to Basic Assessment or Scoping & Environmental Impact Reporting where this Department is the Competent Authority.
2. This form is current as of 01 September 2018. It is the responsibility of the Applicant / Environmental Assessment Practitioner (EAP) to ascertain whether subsequent versions of the form have been published or produced by the Competent Authority. The latest available Departmental templates are available at <https://www.environment.gov.za/documents/forms>.
3. A copy of this form containing original signatures must be appended to all Draft and Final Reports submitted to the department for consideration.
4. All documentation delivered to the physical address contained in this form must be delivered during the official Departmental Officer Hours which is visible on the Departmental gate.
5. All EIA related documents (includes application forms, reports or any EIA related submissions) that are faxed; emailed; delivered to Security or placed in the Departmental Tender Box will not be accepted, only hardcopy submissions are accepted.

Departmental Details

Postal address:

Department of Environmental Affairs
Attention: Chief Director: Integrated Environmental Authorisations
Private Bag X447
Pretoria
0001

Physical address:

Department of Environmental Affairs
Attention: Chief Director: Integrated Environmental Authorisations
Environment House
473 Steve Biko Road
Arcadia

Queries must be directed to the Directorate: Coordination, Strategic Planning and Support at:
Email: EIAAdmin@environment.gov.za

1. ENVIRONMENTAL ASSESSMENT PRACTITIONER (EAP) INFORMATION

EAP Company Name:	Aurecon South Africa (Pty) Ltd			
B-BBEE	Contribution level (indicate 1 to 8 or non-compliant)	1	Percentage Procurement recognition	135%
EAP name:	Jennifer Youthed			
EAP Qualifications:	PhD Environmental Management			
Professional affiliation/registration:	South African Institute of Ecologists & Environmental Scientists IAIAsa			
Physical address:	1 Pearce Street, East London, 5241			
Postal address:	PO Box 19553, Tecoma			
Postal code:	5214	Cell:	-	
Telephone:	043 721 0900	Fax:	-	
E-mail:	Jenny.youthed@aurecongroup.com			

The appointed EAP must meet the requirements of Regulation 13 of GN R982 of 04 December 2014, as amended.

2. DECLARATION BY THE EAP

I, Jennifer Youthed, declare that –

- I act as the independent environmental assessment practitioner in this application;
- I have expertise in conducting environmental impact assessments, including knowledge of the Act, Regulations and any guidelines that have relevance to the proposed activity;
- I will comply with the Act, Regulations and all other applicable legislation;
- I will perform the work relating to the application in an objective manner, even if this results in views and findings that are not favourable to the applicant;
- I will take into account, to the extent possible, the matters listed in Regulation 13 of the Regulations when preparing the application and any report relating to the application;
- I undertake to disclose to the applicant and the Competent Authority all material information in my possession that reasonably has or may have the potential of influencing - any decision to be taken with respect to the application by the Competent Authority; and - the objectivity of any report, plan or document to be prepared by myself for submission to the Competent Authority, unless access to that information is protected by law, in which case it will be indicated that such information exists and will be provided to the Competent Authority;
- I will perform all obligations as expected from an environmental assessment practitioner in terms of the Regulations; and
- I am aware of what constitutes an offence in terms of Regulation 48 and that a person convicted of an offence in terms of Regulation 48(1) is liable to the penalties as contemplated in Section 49B of the Act.



Jenny Youthed

Environmental Practitioner

Qualifications

PhD Geography
MSc Geography
BSc (Hons) Geography
BSc Geography and Psychology
BSc (Hons) Psychology
Professional Member, Southern African Institute of Ecologists and Environmental Scientists (SAIEE)
Member, International Association for Impact Assessment South African Affiliate (IAIAsa)

Specialisation

Senior Environmental Practitioner

Years in industry

21,25

Jenny is employed as a senior environmental practitioner in Aurecon's East London office. She has worked in both the consulting and government sectors, which has given her valuable knowledge of regulatory authority procedures. Her expertise includes environmental legislation, the environmental impact assessment (EIA) process, EIA reviews, monitoring, screening and feasibility studies.

Jenny obtained a Doctor of Philosophy in Geography in 2009 and a Bachelor of Science (Honours) in Psychology in 2003, both from the University of South Africa (UNISA). She obtained her Master of Science in Geography in 1996, her Bachelor of Science (Honours) in 1995 and a Bachelor of Science in 1994, all from Rhodes University, South Africa. She is a member of the International Association for Impact Assessment South Africa (IAIAsa) and a professional member of the Southern African Institute of Ecologists and Environmental Scientists (SAIEES).

Experience

Establishment of the Amathole Mountain Biosphere Reserve (AMBR), Eastern Cape Province, South Africa, Amathole District Municipality (ADM), 02/2013 - Date, Project Leader

The project involved consultative processes and awareness raising for the Amathole Mountain Biosphere Reserve (AMBR). Responsible for project management, report writing and presentations to the client as part of a team.

Upgrading of Woodchem's South African plan in Piet Retief, Mpumalanga Province, South Africa, 2012 - 2013

Responsible for the basic assessment process and managing the project.

High-level fatal flaw screening for Kinira Dam in Matatiele, Eastern Cape Province, South Africa, Sektor Consulting Engineers (Pty) Ltd, 10/2012 - Date, Senior Environmental Practitioner

Responsible for providing specialist environmental input to the project team and for drawing up the terms of reference (TOR) for the appointment of an independent environmental assessment practitioner.

Sidwadweni Regional Water Supply Scheme for Amatola Water, Eastern Cape Province, South Africa, Amatola Water - Amanzi, 09/2012 - Date, Environmental Engineer

Aurecon was appointed to construct a river abstraction, raw water reservoir, water treatment works (WTW), clear water pump station and bulk supply mains for the Sidwadweni Regional Water Supply Scheme in order to supplement the Nqadu Dam Supply. A water reticulation network was also constructed to service the various communities to meet reconstruction and development programme (RDP) standards. Two alternative water supplies will be provided, which will



guarantee an uninterrupted water supply to the community. Responsible for providing environmental input, in conjunction with Amatola Water, to the project team.

Environmental management for the Sundwana Water Supply Project, Eastern Cape Province, South Africa, HHO Africa, 02/2012 - 01/2014, Project Manager for the environmental impact assessment (EIA)

The primary objective of this project was to provide bulk domestic water supply to the remaining communities in the Sundwana area, according to the reconstruction and development programme's (RDP's) standards. The secondary objective entailed the provision of a regional bulk supply to augment the water supply to the Nqabara north and south schemes, the Mhlohlozi scheme and the Mendu scheme. Aurecon's appointment entailed conducting the basic assessment and scoping processes in accordance with the requirements of the environmental impact assessment (EIA) regulations (R543 of June 2010), governing acts and departmental guidelines. Responsible for undertaking the scoping and EIA processes and liaising with specialists.

Woodchem South Africa: Mkhondo, Mpumalanga Province, South Africa, 2012 - Date, Project Leader

Responsible for undertaking and managing the atmospheric emissions licence (AEL) process.

Working for Wetlands Programme for the Western Cape, Western Cape Province, South Africa, South African National Biodiversity Institute (SANBI), 08/2011 - 09/2013, Environmental Assessment Practitioner

Aurecon was appointed to undertake the planning, design and environmental, project and risk management of the South African government's Working for Wetlands Programme. Aurecon assembled a team of wetland ecologists, environmentalists, hydrologists and engineers to repair and rehabilitate over 100 wetland sites in the Western Cape through the implementation of interventions, usually in the form of engineered structures. Appropriate hydrological assessments and engineering techniques were devised to enable design and construction, in many cases without anchoring in bedrock. Responsible for undertaking basic assessments, writing the rehabilitation report in conjunction with the project team, coordinating project team of wetland specialist, provincial wetland coordinator, specialist and engineer and liaising with the project director.

Air emissions licence (AEL) applications for PG Bison in Boksburg, Gauteng Province, South Africa, PG Bison, 07/2011 - Date, Project Leader/Environmental Assessment Practitioner

The project involved applying for an air emissions licence (AEL) in order to obtain environmental approval in terms of the National Environmental Management: Air Quality Act (No. 39 of 2004) (NEM: AQA). Responsible for compiling the necessary AEL application as well as the supporting documentation.

Air emissions licence (AEL) applications for PG Bison in Ugie, Eastern Cape Province, South Africa, PG Bison, 07/2011 - Date, Project Leader/Environmental Assessment Practitioner

The project involved applying for an air emissions licence in order to obtain environmental approval in terms of the National Environmental Management: Air Quality Act (No. 39 of 2004) (NEM: AQA). Responsible for compiling the necessary AEL application as well as the supporting documentation.

Air emissions licence (AEL) applications for PG Bison in Piet Retief, Mpumalanga Province, South Africa, PG Bison, 07/2011 - Date, Environmental Assessment Practitioner

The project involved applying for an air emissions licence (AEL) in order to obtain environmental approval in terms of the National Environmental Management: Air Quality Act (No. 39 of 2004) (NEM: AQA). Responsible for compiling the necessary AEL application, including the supporting documentation as well as ensuring that the AEL application ran in tandem with the required environmental impact assessment (EIA) application.



Mvezo Bridge, Eastern Cape Province, South Africa, Department of Rural Development and Land Reform (DRDLR), 09/2010 - Date

Responsible for undertaking monthly environmental audits to determine compliance with the environmental management plan (EMP).

High-level feasibility study for the Alice urban regeneration strategy, Eastern Cape Province, South Africa, Amathole Economic Development Agency trading as Aspire, 06/2010 - Date, Environmental Specialist

The client wished to investigate various options to stimulate the economic regeneration of the small town of Alice. A study team, including architects, a land use planner, engineer and environmental specialist, was assembled to assess the various development options presented by the client and the communities and to assist in implementing the selected options. Involved as a specialist on the study team and was responsible for providing environmental advice, assessing the proposed development options for environmental fatal flaws, giving environmental input into the high-level feasibility study and undertaking the necessary environmental processes to obtain the necessary environmental authorisation.

High-level feasibility study for the Hamburg urban regeneration strategy, Eastern Cape Province, South Africa, Amathole Economic Development Agency trading as Aspire, 06/2010 - Date, Environmental Specialist

The client wished to investigate various options to stimulate the economic regeneration of the small town of Hamburg. A study team, including architects, a land use planner, engineer and environmental specialist, was assembled to assess the various development options presented by the client and the community and to assist in implementing the selected options. Involved as a specialist on the study team and was responsible for providing environmental advice, assessing the proposed development options for environmental fatal flaws, giving environmental input into the high-level feasibility study and undertaking the necessary environmental processes to obtain necessary environmental authorisation.

Working for Wetlands Programme for various provinces, Various provinces, South Africa, South African National Biodiversity Institute (SANBI), 12/2009 - 10/2011, Environmental Assessment Practitioner

Aurecon was appointed to conduct the planning and implementation of rehabilitation interventions for the Working for Wetlands programme in the Gauteng, KwaZulu-Natal, Free State, Eastern and Western Cape, Limpopo and North West Provinces. The focus was on wetland conservation and poverty reduction through job creation and skills development. The project's key objective was to support and enable the protection, rehabilitation and sustainable use of South Africa's wetlands through cooperative governance and partnerships. The main work components included assessing wetland health for identification and prioritisation of remedial measures, obtaining environmental authorisation and undertaking the engineering design and site support for the implementation thereof. Responsible for undertaking basic assessments, writing the rehabilitation report in conjunction with the project team, coordinating the project team of wetland specialists, provincial wetland coordinator, specialist services, engineering and liaising with the project director.

Sidwadweni Regional Water Supply Scheme, Phase V, Eastern Cape Province, South Africa, OR Tambo District Municipality, 12/2009 - Date, Senior Environmental Practitioner

The Sidwadweni Regional Water Supply Scheme was split into five phases to allow for the spreading of the required funds over a number of financial years. Phase 5 included nine secondary reservoirs; 43 km of distribution mains; 135 km of village reticulation, including standpipes located so that no person has to walk more than 200 mm to a water source. A total of 22 villages/sub-villages, with a population of 23 500, would be served. Responsible for undertaking regular environmental audits to ensure continued compliance with environmental requirements.



Relocation of a short cycle press for PG Bison, Mpumalanga Province, South Africa, PG Bison, 2009 - 2011, Environmental Assessment Practitioner

The project entailed the undertaking of a basic environmental assessment in order to obtain environmental approval in terms of the environmental impact assessment (EIA) regulations. Responsible for the undertaking the basic environmental assessment.

Blocked housing and breaking new ground (BNG) review process, Eastern Cape Province, South Africa, German Development Corporation/Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ), 05/2009 - 07/2010

The assignment involved two projects for research studies with the broad aim of establishing the extent of bottlenecks in the process of housing delivery in the province, and how these blockages could be corrected. Responsible for data collection and analysis and report writing in conjunction with the project team. Also responsible for presenting the results to the client's head of department (HOD).

Desalination contractual investigation for Nelson Mandela Bay Metropolitan Municipality (NMBMM), Eastern Cape Province, South Africa, Nelson Mandela Bay Metropolitan Municipality (NMBMM), 12/2008 - 10/2010, Environmental Specialist

Aurecon was appointed as lead consultant and project manager to assist the Nelson Mandela Bay Municipality (NMBM) to conduct a study into the contractual considerations associated with a bid to implement desalination as a source of salt in the Coega Industrial Development Zone (IDZ). This included conducting technical, financial, and legal reviews to guide the municipality in responding to the bid, and to determine the impact on water tariffs. Involved as a specialist on the study team and was responsible for the environmental input into the study.

Ncera Macadamia Farming Project, Eastern Cape Province, South Africa, Ncera Macadamia Farming (Pty) Ltd, 06/2008 - 11/2013, Senior Environmental Practitioner

A Section 24G application in terms of the National Environmental Management Act (Act No. 107 of 1998) (NEMA) was submitted to rectify the illegal commencement of the above project in East London. This is the first community-owned Macadamia plantation in the Eastern Cape. Responsible for compiling the act.

Mncwasa bulk regional water supply scheme, Eastern Cape Province, South Africa, Amathole District Municipality (ADM), 04/2008 - 07/2010, Senior Environmental Practitioner

The project involved an environmental impact assessment (EIA) for the establishment of a bulk water supply scheme with an off-channel storage dam and water treatment works (WTW) in order to supply water to communities in the Mncwasa area, which falls under the Mbashe Local Municipality. Responsible for all environmental aspects of the project.

Study of sludge disposal options for the Nelson Mandela Bay Metropolitan Municipality (NMBMM), Eastern Cape Province, South Africa, Nelson Mandela Bay Metropolitan Municipality (NMBMM), 04/2008 - 04/2012, Environmental Specialist

Nelson Mandela Bay Metropolitan Municipality (NMBMM) requested an investigation into the various options available to them for the disposal of sewage sludge. The study included legal, engineering, financial and environmental aspects. Involved as a specialist on the study team and was responsible for the environmental input into the study.

Needs Camp - Kidd's Beach water supply pipeline, Eastern Cape Province, South Africa, Department of Agriculture, 2008 - Date, Senior Environmental Practitioner

The project entailed the basic assessment process for the construction of a bulk water supply pipeline from an existing reservoir at Needs Camp to a new reservoir at Kidd's Beach. Appointed to undertake the required basic assessment process. Responsible for undertaking the environmental impact assessment (EIA) process.



Environmental impact assessment (EIA) for the Dukathole Township infill development, Eastern Cape Province, South Africa, Maletswai Local Municipality, 09/2007 - 02/2011, Senior Environmental Practitioner

Maletswai Local Municipality was in the process of formalising parts of Dukathole Township and appointed Aurecon to undertake the necessary basic assessment process. Responsible for undertaking scoping and the environmental impact assessment (EIA) processes.

Sidwadweni Regional Water Supply Scheme, Phase IV, Eastern Cape Province, South Africa, OR Tambo District Municipality, 09/2007 - 06/2011, Senior Environmental Practitioner

Responsible for undertaking regular environmental audits to ensure continued compliance with environmental requirements.

Backlog review support for the Department of Environmental Affairs and Tourism (DEAT), Eastern Cape Province, South Africa, Department of Environmental Affairs and Tourism (DEAT), 2007 - 2008, Senior Environmental Practitioner

Aurecon was appointed to assist the department with the review of outstanding environmental impact assessment (EIA) applications in terms of the Environment Conservation Act (Act No. 73 of 1989) (NEMA) in the Eastern Cape. Responsible for assisting in the evaluation and processing of these applications.

Environmental auditing for PG Bison in Ugie, Eastern Cape Province, South Africa, PG Bison, 06/2007 - Date, Senior Environmental Practitioner

The project involved undertaking independent environmental audits of PG Bison's compliance with its environmental management plans (EMPs) during the construction and operational phases of the development. Responsible for quarterly operational phase audits.

Development of an operational environmental management plan (OEMP) for PG Bison, East London, South Africa, PG Bison, 06/2007 - Date, Senior Environmental Practitioner

PG Bison requested assistance with developing an operational environmental management plan (OEMP) for a new particle board factory in Ugie. Responsible for assisting with the finalisation of the OEMP for the project.

Sidwadweni Regional Water Supply Scheme, Phases I, II and III, Eastern Cape Province, South Africa, OR Tambo District Municipality, 11/2002 - Date, Senior Environmental Practitioner

The first phase of the Sidwadweni Water Supply Scheme covered the construction of the water treatment works (WTW) and the bulk electrical supply to the WTW. The second phase encompassed the construction of all bulk distribution mains and reticulation to the first five villages on the eastern side of the works and the third phase dealt with the construction of bulk distribution mains and reticulation to the first six villages on the western side of the works. Responsible for undertaking regular environmental audits to ensure continued compliance with environmental requirements.

Environmental auditing for the Needs Camp water supply scheme, Eastern Cape Province, South Africa, Buffalo City Metropolitan Municipality (BCMM), 05/2004 - 02/2009, Senior Environmental Practitioner

The project involved the construction of a bulk water supply pipeline across the Buffalo River as well as a bulk supply reservoir. Responsible for audits on the project to ensure compliance with environmental requirements.



Stream flow reduction licensing application assessment committee for afforestation applications, Eastern Cape Province, South Africa, Department of Water Affairs (DWA), 2004 - 2007, Senior Environmental Officer

Appointed as a member of the committee that coordinates the approval of afforestation developments in the Eastern Cape. Responsible for commenting on environmental aspects, advising on environmental impact assessment (EIA) processes and facilitating dovetailing of the various environmental approval processes.

Incident management system (IMS) for National Route 6 (N6) between Queenstown and Aliwal North, Eastern Cape Province, South Africa, Chris Hani District Municipality (CHDM), 2000, Senior Environmental Officer

Responsible for providing input into the development of an incident management system (IMS) for the section of National Route 6 (N6) between Jamestown and Aliwal North. Included in this plan were the environmental actions that needed to be taken in the event of an incident, such as a tanker fuel spill.

Integrated development plans (IDPs) for municipalities within the Chris Hani and Ukhahlamba municipal areas, Eastern Cape Province, South Africa, Various municipalities within the Chris Hani and Ukhahlamba District Municipalities, 1999 - 2007, Senior Environmental Officer

Appointed as a representative of the provincial environmental authority. Responsible for providing environmental input into the integrated development plan IDP processes for the municipalities.

Review of applications submitted in terms of the environmental impact assessment (EIA) regulations, Eastern Cape Province, South Africa, Department of Economic Development and Environmental Affairs (DEDEA), 1997 - 2007, Environmental Officer

Appointed as environmental officer at the Department of Economic Development and Environmental Affairs (DEDEA) in Queenstown. Key projects included the Beta-Delphi 800 kv line between Bloemfontein and Queenstown; the 66 kv line between Ugie and Qumbu; above and underground fuel storage; impact assessments for the construction of filling stations; PG Bison particle board plant at Ugie; golf estate at Zwartbosch; low-income township development applications; release of organisms for biological control; national environmental impact assessment (EIA) applications for the release of biological control agents; upgrading of Tiffindell Ski Resort; construction and upgrading of the Ugie-Langeni, Cala-Lady Frere and Maclear-Mount Fletcher roads; sewage treatment works (STWs) EIAs for Engcobo, Ugie, Maclear, Hofmeyer and Barkly East; telecommunications towers for Telkom, Vodacom, MTN, Cell C, Sentech and the South African Police Service (SAPS); waste disposal site EIAs for Lady Grey, Aliwal North, Steynsburg, Queenstown, Molteno, Sterkstroom, Ugie and Maclear; scoping reports for water supply schemes to villages in the Chris Hani and Ukhahlamba District municipal areas and the construction of dams at Jamestown, Barkly East, Maclear and Mount Fletcher. Tasks included reviewing over 500 EIA reports, undertaking site inspections, holding meetings with clients and drawing up the necessary records of decision (RoDs).

Review of environmental management plans (EMPs), Eastern Cape Province, South Africa, Department of Economic Development and Environmental Affairs (DEDEA), 1997 - 2007, Environmental Officer

Appointed as environmental officer at the Department of Economic Development and Environmental Affairs (DEDEA) in Queenstown. Responsible for reviewing environmental management plans (EMPs), including the PG Bison development at Ugie; the upgrading of Tiffindell Ski Resort and EMPs for water supply schemes, road upgrades and telecommunication masts. Also responsible for reviewing environmental management programme reports (EMPRs), including the prospecting of coal near Indwe; the development of a hard rock quarry between Maclear and Mount Fletcher; the establishment of borrow pits and sand mining. Responsible for assessing over 20 as required in terms of the environmental impact assessment (EIA) regulations as well as reviewing and providing comments on the EMPRs submitted to the provincial environmental authority for comment by the Department of Minerals and Energy (DME).

Appendix E2

SPECIALIST DECLARATION AND EXPERTISE



environmental affairs

Department:
Environmental Affairs
REPUBLIC OF SOUTH AFRICA

DETAILS OF SPECIALIST AND DECLARATION OF INTEREST

File Reference Number:	(For official use only) 12/12/20/ or 12/9/11/L
NEAS Reference Number:	DEA/EIA
Date Received:	

Application for integrated environmental authorisation and waste management licence in terms of the-

- (1) National Environmental Management Act, 1998 (Act No. 107 of 1998), as amended and the Environmental Impact Assessment Regulations, 2014; and
- (2) National Environmental Management Act: Waste Act, 2008 (Act No. 59 of 2008) and Government Notice 921, 2013

PROJECT TITLE

Working for Wetlands Rehabilitation Programme: Eastern Cape

Specialist:	Craig Cowden		
Contact person:	Craig Cowden		
Postal address:	9 Quarry Road, Hilton		
Postal code:	3245	Cell:	082 748 8522
Telephone:	033 343 2229	Fax:	086 599 2300
E-mail:	craig@groundtruth.co.za		
Professional affiliation(s) (if any)	South African Council for Natural Scientific Professions Registration Number: 400197/05		

Project Consultant:	Aurecon South Africa Pty (Ltd)		
Contact person:	Claire Blanché		
Postal address:	PO Box 494		
Postal code:	8000	Cell:	082 445 5438
Telephone:	021 526 6937	Fax:	021 526 9500
E-mail:	Claire.Blanche@aurecongroup.com		

4.2 The specialist appointed in terms of the Regulations_

I, Craig Cowden , declare that --

General declaration:

I act as the independent specialist in this application;

I will perform the work relating to the application in an objective manner, even if this results in views and findings that are not favourable to the applicant;

I declare that there are no circumstances that may compromise my objectivity in performing such work;

I have expertise in conducting the specialist report relevant to this application, including knowledge of the Act, Regulations and any guidelines that have relevance to the proposed activity;


I will comply with the Act, Regulations and all other applicable legislation;

I have no, and will not engage in, conflicting interests in the undertaking of the activity;

I undertake to disclose to the applicant and the competent authority all material information in my possession that reasonably has or may have the potential of influencing - any decision to be taken with respect to the application by the competent authority; and - the objectivity of any report, plan or document to be prepared by myself for submission to the competent authority;

all the particulars furnished by me in this form are true and correct; and

I realise that a false declaration is an offence in terms of regulation 48 and is punishable in terms of section 24F of the Act.



Signature of the specialist:

Ground Truth

Name of company (if applicable):

18/01/2019

Date:

Curriculum Vitae – Craig Cowden

Personal Details:

Name: Craig Cowden
Profession: Wetland Ecologist
Date of Birth: 14 March 1978
Nationality: South African



Key Qualifications:

Seventeen years' experience in ecosystem functioning and management, specializing in wetland ecosystems. Involvement in a variety of studies to determine practical and applied ecological solutions. Specialist input into various studies, focusing on:

- Mapping and infield delineation of wetland habitat within various regions of Southern Africa, including South African provinces of KwaZulu-Natal, Mpumalanga, Free State, Eastern Cape and Gauteng, and Lesotho for inventory and management purposes.
- Assessment of various wetland ecosystems to highlight potential impacts, within current and proposed landscape settings, and recommend appropriate mitigation and offsets based on assessing wetland ecosystem service delivery (functioning) and ecological health/integrity.
- Assessment of various wetland ecosystems to plan appropriate wetland rehabilitation activities and performance evaluation and monitoring of wetland rehabilitation projects.
- Literature reviews and research relating to impacts, best management practices, promoting biodiversity, monitoring and evaluating rehabilitation within wetland ecosystems.

Education and Training:

- 2017 MSc (Environmental Science) Rhodes University, Grahamstown. MSc has been accepted pending corrections.
- 2017 Wetland Delineation Course - Wetland Training Institute, Convington (Louisiana), USA.
- 2017 Natural Processes for the Restoration of Drastically Disturbed Sites. VII World Conference on Ecological Restoration, Foz do Iguassu, Brazil, August 26, 2017.
- 2015 A Methodology for Determining Buffer Zones for Rivers, Wetlands and Estuaries. National Training and Development Workshop, Pretoria, Gauteng, November 24-25, 2017.
- 2005 Wetland Assessments to Inform Wetland Rehabilitation Planning - University of KwaZulu-Natal.
- 2001 Forest Certification Course - SGS Qualifor.
- 2001 Wetland Rehabilitation Planning and Implementation - Mondi Wetlands Project.
- 1999 B.Sc. (Agriculture) University of Natal, Pietermaritzburg – Four-year Degree (Honours equivalent), majoring in Wildlife Science & Zoology.

Professional Memberships:

- Professional Natural Scientist (Pr.Sci.Nat) in Ecological Science - The South African Council for Natural Scientific Professions (Reg. No. 400197/05)
- Founding Member - South African Wetland Society
- Member -Society of Wetland Scientists (International)
- Member -Society of Ecological Restoration (International)

Professional Awards:

- National Wetland Award under the "Stewardship" category awarded in 2013 in recognition of the wetland rehabilitation associated with the Greater Edendale Mall development.
- Mondi Wetlands Programme acknowledgment of "Contributions towards wetland conservation" awarded in 2012.

Experience Record:

2009 to Present: GroundTruth (GT) - Management of the wetland division within GT.

2001 to 2009: Land Resources International (LRI) - Management of the environmental division within LRI.

Examples of Projects:

- Implementation of wetland rehabilitation planning in various provinces, including KwaZulu-Natal, Mpumalanga, Limpopo, Gauteng, Free State and Western Cape for the Working for Wetlands Programme from 2005-2012, 2016-2018.
- Wetland specialist input and support to Burundi Nature Action and Association pour la Conservation de la Nature au Rwanda on behalf of the International Union for the Conservation of Nature – Netherlands Committee.
- Assessments of impacted wetland systems and rehabilitation planning to inform the offset requirements for proposed development at the Cascades Mall in Pietermaritzburg.
- Assessments of impacted wetland systems and rehabilitation planning to inform the offset requirements for Exxaro coal mining operations.
- Assessment of wetland systems potentially affected by the proposed expansion of Lumwana Mine near Solwezi, Zambia on behalf of SRK Consultants.
- Water Research Commission research project on developing a monitoring and evaluation framework to assess wetland rehabilitation in South Africa.

Publications

- **Cowden C**, Kotze DC, Ellery WN & Sieben EJJ. 2014. *Assessment of the long-term response to rehabilitation of two wetlands in KwaZulu-Natal, South Africa*. African Journal of Aquatic Science, Vol. 39, No. 3.
- Rivers-Moore NA, **Cowden C**. 2012. *Regional prediction of wetland degradation in South Africa*. *Wetlands Ecology and Management*, DOI 10.1007/s11273-012-9271-5.
- Macfarlane DM, Walters D & **Cowden C**, 2011. A wetland health assessment of KZN's priority wetlands. Draft Unpublished Report prepared for Ezemvelo KZN Wildlife, Pietermaritzburg.
- **Cowden C** & Kotze DC, 2009. WET-RehabEvaluate: Guidelines for the monitoring and evaluation of wetland rehabilitation projects. WRC Report No. TT 342/08, Water Research Commission, Pretoria.
- Kotze DC, **Cowden C**. 2009. KZN Biodiversity Stewardship Programme: Guidelines for the *in situ* Management of Ecosystems in KwaZulu-Natal, according to Biodiversity Conservation Principles – Wetlands. Unpublished Report prepared for Ezemvelo KZN Wildlife by Land Resources International, Pietermaritzburg.
- **Cowden C**, Ellery W, Kotze D, Grenfell M, McCulloch D, Woods D, Grenfell S, Bambus O. 2009. *Performance evaluation of the wetland rehabilitation undertaken at Killarney Wetland in Ntsikeni Nature Reserve, KwaZulu-Natal Province* **In** Kotze DC, Ellery WN. 2009. *WET-OutcomeEvaluate: An Evaluation of the rehabilitation outcomes at six wetland sites in South Africa*. WRC Report No. TT 343/09. Water Research Commission, Pretoria.

Conference Presentations:

- **Cowden C**, Kotze D, Walters D, Browne B. Monitoring and evaluation framework for wetland restoration in South Africa, using an urban wetland case study. *Presented during VII World Conference on Ecological Restoration*. Foz do Iguassu, Brazil, August 28 - September 1, 2017.
- **Cowden C**. Wetland specialist input into the Working for Wetlands rehabilitation planning cycle. 21st National Wetlands Indaba, Hoedspruit, Mpumalanga, October 25-28, 2016.
- **Madikizela B**, Cowden C, Kotze D, Ellery W. *Documenting lessons and refining the wetland restoration field of practice in South Africa: The response of two wetlands to Working for Wetlands Restoration*, *Presented during V World Conference on Ecological Restoration*. Wisconsin, USA, September 6-11, 2013.
- **Cowden C**, Kotze D, Ellery W. *Assessment of the long-term response of specific wetlands to rehabilitation interventions by Working for Wetlands*, 17th National Wetlands Indaba. Klein Kariba, Limpopo, October 23-26, 2012.
- **Cowden C**. *Urban Wetland Rehabilitation: A KwaZulu-Natal Case Study*, 16th National Wetlands Indaba. Didima, KwaZulu-Natal, October 18-21, 2011.

Appendix E3

WETLAND FORUM MEETING MINUTES



PROVINCIAL WETLANDS FORUM MEETING
Minutes of the Meeting
Held at DEDEAT offices in King Williams Town
At 10H00 ON THE 11th of September 2018

CHAIRPERSON : Mr. B. Mzamo
SECRETARIAT : V. Banzi
 Z.Ngxowa

AGENDA ITEMS

**RESPONSIBLE
OFFICIAL(S)**

1.	<p>OPENING, INTRODUCTION AND WELCOMING</p> <p>The chairperson declared the meeting officially opened. He welcomed everyone present at the meeting and allowed a round of introductions to everyone.</p>	B. Mzamo
2.	<p>ATTENDANCE REGISTER AND APOLOGIES</p> <ul style="list-style-type: none"> • Attendance: Attendance Register was circulated in the meeting • Apologies: Unathi Makati (DEA) – site inspections; Shane October (ECPTA) – attending a meeting at ADM; Noluthando Bam (DEDEAT) – meeting with HOD; Mbulelo Xalu (DEDEAT) – attending meeting in North West. 	All
3	<p>ADOPTION OF THE AGENDA</p> <ul style="list-style-type: none"> • The proposed agenda was adopted by Hennie and seconded by Sino as the working agenda for the day. 	All
4	<p>MINUTES OF THE PREVIOUS MEETING</p> <p>4.1 MINUTES READING</p> <ul style="list-style-type: none"> • The minutes of the last meeting were read as the true reflection of the proceedings of the last meeting. <p>4.2 MATTERS ARISING</p> <p>4.2.1 WORKING FOR WETLANDS</p>	All



5	<p>Sarah Baartman Region</p> <ul style="list-style-type: none"> • Kromme River: maintenance of the structures • Tsitsikamma: maintenance of the structures. • Baviaanskloof: new ROD to be conducted. • No new projects on the western side that have been approved 	Hennie
	<p>Amathole Region</p> <ul style="list-style-type: none"> • Western side of Seymour has been spotted on google maps. There will be a site visit on the 25th of September to explore and evaluate the situation. 	Eric
	<p>4.2.2 DEDEAT (EES)</p> <ul style="list-style-type: none"> • Buntu was to attend EES next meeting. No meeting has been held, thus matter is still on going. 	Buntu
	<p>5.2 FEEDBACK FROM WETLAND TRAINING</p> <ul style="list-style-type: none"> • Farmers that were part of the training should be included in the forum. They will be invited in the next meeting. 	All
	<p>5.3 AOB</p> <p>Terms of reference will be circulated once Buntu sends them to the secretariat.</p>	All
	<p>4.3 ADOPTION OF PREVIOUS MINUTES</p> <ul style="list-style-type: none"> • The minutes were adopted by Hennie. 	
	<p>NEW ITEMS</p> <p>5.1 Reports from stakeholders</p>	



	<p>5.1.1 DEDEAT (OR TAMBO)</p> <ul style="list-style-type: none"> No burning issues for the present moment. <p>5.1.2 BUFFALO CITY MUNICIPALITY</p> <ul style="list-style-type: none"> Rehabilitation of John Dube (Scenary Park in East London) by Mathongo Lamani. Wetland strategy developed in conjunction with ICLEI and John Dube Wetland was identified. Wetland currently being used as a dumping site. Wetland was used as a recreational area and the municipality seeks to restore the situation. Project divided into three phases: clearing, assessment and rehabilitation. Project is still in planning phase and any suggestions are welcome. It was suggested by the forum that the community must form part of the planning so they can take ownership of the project. Mr Qonya must link the municipality with DEDEAT EES. In planning meeting that was held, it was decided that BCM EES will liaise with DEDEAT EES. The counselor and the community have committed themselves to be part and parcel of the project. Illegal dumping is still ongoing but money has been allocated for the clearing during phase 1 of the project. The wetland is a pit with various pollutions. Asbestos was even found in the wetland. There is also rabble. German company have developed disposable nappies that are biodegradable but currently those nappies are expensive. The nappies degrade in 6 months Secretariat requested that all reports be sent via e-mail to them in order to include them in the minutes. <p>5.1.3 DEDEAT (JOE GQABI)</p> <ul style="list-style-type: none"> Chevy Chase wetland in Mount Fletcher. Previously used for agricultural purposes but department intervened and activities were stopped. Wetland is now used for grazing by the community as it is a seasonal wetland. 	<p>Mathongo</p> <p>Jane</p>
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	<ul style="list-style-type: none"> • Wetland along R56 from Mount Fletcher. Community had used the wetland as a dumping site but after awareness was conducted by the department the situation improved. • Mount Fletcher wetland in private land where farmer is using the wetland for dumping old cars. The region asked for recommendations on how to proceed since the activity is in a wetland. Resolution: region to liaise with compliance with regard to the situation so that the owner can stop the activity. • Resolution: Water Affairs should be part of the forum as well as affected municipalities where illegal dumping on wetlands is abound. Communities state that the municipalities are not picking up their waste and they resort to dump in the wetland. Water Affairs are part of the mailing list but no one responds. Invitation for the next meeting will be sent to them again for their representation in the forum. • Secretariat requested that all reports be sent via e-mail to them in order to include them in the minutes <p>5.1.4 DEDEAT (CHRIS HANI)</p> <ul style="list-style-type: none"> • Proposed Fuel Station in St Marks, Cofimvaba. There is a wetland near the proposed site. The primary site was rejected and the alternate site for the project will be inspected. The inspection is scheduled for the 20th of September and will include DEDEAT, Water & Sanitation and Earth Free Environmental Consulting. Report will be given in next meeting. • Wetland inventory for the region will be conducted. This will be on a finer scale. • The forum made mention of the ECBCP where wetlands included in the plan. Department will workshop the plan in all the regions, Buntu will send the dates when they are released. 	<p>Vuyokazi</p> <p>All</p> <p>Viwe</p>
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5.1.5 DEDEAT (SARAH BAARTMAN)

Gamtoos River Mouth has closed for the first time in 50 years and the water levels have affected salt marsh wetlands. Artificial breaching of the estuary will occur sometime during the week because the berm is now too high.

Hennie

5.1.6 DEDEAT (AMATHOLE)

- Leiches Bay - Communities use the wetland as a food source. Questions put forward by the forum on this matter: Is DRDAR aware that the Leiches Bay wetland has consumable resources? If so, are they managing the situation? Mr Qonya to liaise with DRDAR regarding the matter.
Is there a permit or license that is issued for harvesting of resources in a wetland? Whose mandate is to manage the resource? Matter to be investigated further.
- Ncera wetland: development on the wetland near R72. Builder to construct a wall to stop water from wetland. He says that he was given the site by the community.
- Chalumna sand mining on a wetland. DMR and DEDEAT intervened and now the activity has stopped.
- Seymour wetland rehabilitation: black wattle has invaded the wetland once more; no maintenance of the wetland was done after the rehabilitation.
- Hogsback rehabilitation: new structures will be put into place that will replace the old structures.

Eric

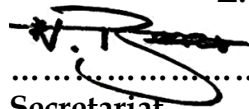
5.2 NATIONAL WETLANDS INDABA

- The Indaba will be held on 8 - 11 October in Kimberly. A presentation is to be given by the Forum.



	<ul style="list-style-type: none"> The presentation will give an overview of the forum and its representation, training, how many meetings, successes and challenges. Previous presentations from stakeholders can be made use of. Also include pictures of benefits of wetlands (making of baskets, food ect). 9 officials from DEDEAT will be attending the Indaba. Presentation must be circulated to the members before the Indaba for inputs by the 28th of September. <p>5.3 AOB</p> <ul style="list-style-type: none"> Institutions of higher learning must be incorporated in the forum. Water Affairs have to be included in the forum. Issues discussed in forum affect their mandate. We must get relevant contact persons from WA. 	All
6.	<p>DATE OF NEXT MEETING</p> <ul style="list-style-type: none"> Next meeting to be held on the 5th of September in East London at the DAFF offices. 	All
7	<p>7. CLOSURE</p> <ul style="list-style-type: none"> Chairperson thanked everyone for attending the meeting. 	Buntu

Compiled by: V. Banzi
Z. Ngxowa


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Secretariat

Endorsed by: B. Mzamo

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