

## Elana Mostert CV – Environmental & Ecological Specialist



<b>Name:</b>	Elana
<b>Surname:</b>	Mostert
<b>Highest qualification:</b>	MSc Botany (SU)
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### RELEVANT QUALIFICATIONS

- MSc Botany (SU): Specialising in Invasion Biology & Fynbos Restoration
- BSc Hons Plant Sciences- Ecology (UP)
- BSc Environmental Sciences (UP)
- Section 21 (c) and (i) Training: Roodeplaat (November 2017)
- SASS5 Aquatic Biomonitoring Training (November 2018)

### WORK EXPERIENCE

- March 2016 - May 2017: Field assistant, Plant Ecologist at Department of Environmental Affairs (Oceans & Coasts)
- June 2017 - current: Environmental Consultant & Ecological Specialist at Enviroworks
- January 2019 – June 2021: Office Manager for Enviroworks, Cape Town
- July 2021 – current: Project Manager for Enviroworks (Cape Town, Bloemfontein & George)

### **Published popular Science article:**

- Mostert, E., Gaertner, M., Hall, S., Mukundamago, M., Holmes, P. 2015. *Solving the puzzle of restoring the missing fynbos*. Quest, Volume 11, Number 3.

### **Publication accepted for journal publication:**

- Mostert, E., *et al.*, Impacts of invasive alien trees on threatened lowland vegetation types in the Cape Floristic Region, South Africa, South African Journal of Botany 108 (2017) 209–222. DOI <https://doi.org/10.1016/j.sajb.2016.10.014>
- Mostert E., et al, A multi-criterion approach for prioritizing areas in urban ecosystems for active restoration following invasive plant control, Environmental Management, 1-20, DOI 10.1007/s00267-018-1103-9

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- Snyman, A., Mostert, E. and Ludynia, K., 2021. Sex determination of Kelp Gull *Larus dominicanus vetula* using head and bill measurements. *Ostrich*, 92(2), pp.147-150. DOI <https://doi.org/10.2989/00306525.2021.1887951>

### SCREENING PROCESS AND LEGAL QUERIES:

- Environmental Screening Process for the proposed Gromis-Nama-Aggeneis 400kV IPP integration power line, Northern Cape Province, Eskom SOC Ltd.
- Environmental screening and EIA applicability checklist for the proposed development of a telecommunication base station on erf 9284, Somerset West, Western Cape Province, CTC Operations (Pty) Ltd.
- Environmental screening for the periodic maintenance of TR1/2, TR1/3, TR44/1, TR88/1, MR401, MR402 and DR1834, near Uniondale, Western Cape Province, Western Cape Department of Transport and Public Works.
- Environmental screening for the R60 selected road crossing and road widening between Worcester and Ashton, Western Cape Province, Western Cape Department of Transport and Public Works.
- Environment Screening Process and EIA applicability checklist for the proposed improvement of a section of the National Road (N11) which has been undermined within Ward 20 of the Newcastle Local Municipality in the KwaZulu-Natal Province, SANRAL.
- Environment Screening Process and EIA applicability checklist for the proposed rehabilitation of Tafelberg Road, extending from the intersection at Tafelberg Road and Kloofnek Road (SV0) to the Lower Cableway Station (SV1351), City of Cape Town, Western Cape Province, City of Cape Town Metropolitan Municipality.
- Legal Query for the Proposed Improvement of a Section of the National Road (N11) Which Has Been Undermined Near Newcastle in the KwaZulu-Natal Province, BVi Consulting Engineers (Pty) Ltd on Behalf of South African National Roads Agency SOC Limited (SANRAL).

### FRESHWATER ECOLOGICAL ASSESSMENTS

- Freshwater Impact Assessment for the Environmental Screening Process for the proposed Gromis-Nama-Aggeneis 400kV IPP integration power line, Northern Cape Province, Eskom SOC Ltd.
- Wetland delineation and DWS Section 21 (c) & (i) Water Use Risk Matrix for the proposed development of 100 erven on Erf 210 in Sutherland, Karoo Hoogland Local Municipality, Northern Cape, COGHSTA.
- Wetland delineation and DWS Section 21 (c) & (i) Water Use Risk Matrix for the proposed Zachtvelei Dam And Bulk Conveyance Infrastructure, Lady Grey, Eastern Cape, Indwe Environmental Consulting for Joe Gqabi District Municipality.
- DWS Section 21 (c) & (i) Water Use Risk Matrix for the proposed development of Erf 3976 for a mixed use development in Hartswater, Phokwane Municipality, Northern Cape, Makespace Architects.
- DWS Section 21 (c) & (i) Water Use Risk matrix for the proposed construction of a cellular telecommunications base station and associated infrastructure in Roodekrans, Gauteng, Coast to Coast Towers (Pty) Ltd.
- Wetland delineation for the proposed development of the Sarah Baartman Agricultural Hub, Eastern Cape, FemPlan.
- Wetland delineation for the proposed development of the Alfred Nzo Agricultural Hub, Eastern Cape, FemPlan.
- Wetland delineation for the proposed development of the OR Tambo Agricultural Hub, Eastern Cape, FemPlan.
- DWS Section 21 (c) & (i) Water Use Risk Matrix for the proposed expansion of a granite mine in Biesjesfontein, Springbok, Northern Cape, Greenmined.
- DWS Section 21 (c) & (i) Water Use Risk Matrix for the proposed development of new sports grounds at Waterstone College, Olifantsvlei, Gauteng, CURRO.
- Wetland delineation and DWS Section 21 (c) & (i) Water Use Risk Matrix for the 24G Application for the unlawful clearing of indigenous vegetation and construction of chicken lay houses, Molote City, North West Province, Baramakama Poultry (Pty) Ltd.
- Freshwater specialist study for the extension of a canal by 10 metres at km0.1 along Minor Road 6924, Western Cape Province, Garden Route District Municipality.
- Wetland delineation and DWS Section 21 (c) & (i) Water Use Risk Matrix for the 24G Application for the unlawful construction of a poultry farm, Belgie, Thaba 'Nchu, Free State, Country Bird Holdings.
- Freshwater Study and DWS Section 21 (c) & (i) Water Use Risk Matrix for the periodic maintenance of TR1/2, TR1/3, TR44/1, TR88/1, MR401, MR402 and DR1834, near Uniondale, Western Cape Province, Western Cape Department of Transport and Public Works.
- DWS Section 21 (c) & (i) Water Use Risk Matrix for the rehabilitation of Divisional Road 1688 from Calitzdorp (KM 1.00) to the Calitzdorp Spa Turnoff (KM 15.64), Western Cape Province, Western Cape Province, Western Cape Department of Transport and Public Works.

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- Freshwater Impact Assessment and DWS Section 21 (c) & (i) Water Use Risk Matrix for the proposed construction of a water pipeline between Noenieput and Swartkop Dam, Northern Cape Province, Kalahari-East Water Users Association.
- Water Use License Requirements (Environmental Operation, Emergency & Management Plan; Monitoring Programme; Rehabilitation Plan) for the upgrade of the Caledon Bulk Sewerage pipeline along the Bath River between Caledon and Myddleton, Western Cape Province, Theewaterskloof Local Municipality.
- Freshwater Risk Assessment Statement for the Proposed Upgrades to Avondale Heights Block of Flats, 1 Avondale Terrace, Cape Town, Western Cape Province, UF Architects.
- Freshwater Assessment and DWS Section 21 (C) & (I) Risk Matrix for the Proposed Development of an Approximate Six Point Three Kilometre (6.3km) Long Pipeline Along Macassar Road, Between the Zandvliet and Macassar WWTW, Cape Town, Western Cape Province, BVi Consulting Engineers Western Cape (Pty) Ltd on Behalf of The City of Cape Town Metropolitan Municipality.
- Aquatic- and Terrestrial Biodiversity Assessment and DWS Section 21 (C) & (I) Risk Matrix for the Proposed Rotondo Dam on Farm 1093 (Rotondo Farm) to Act as a Storage Dam for the Rotondo Walnut Operation in the Rouxville District, Free State Province, Indwe Environmental Consulting in Association with Moira Cloete Environmental Consulting (MCEC).
- PES monitoring procedure of the Orange River for the the Xina Solar One thermal plant (Phase 2) and its associated infrastructure, Northern Cape Province, Abengoa Solar.

### WATER USE LICENCE APPLICATIONS

- General Authorization for the rehabilitation of Divisional Road 1688 from Calitzdorp (KM 1.00) to the Calitzdorp Spa Turnoff (KM 15.64), Western Cape Province, BVi Consulting Engineers.
- General Authorization for the the periodic maintenance of TR1/2, TR1/3, TR44/1, TR88/1, MR401, MR402 and DR1834, near Uniondale, Western Cape Province, Western Cape Department of Transport and Public Works.
- General Authorization for the proposed construction of a cellular telecommunications base station and associated infrastructure in Roodekrans, Gauteng, Coast to Coast Towers (Pty) Ltd.

### SECTION 24G RECTIFICATION APPLICATION

- Section 24G Application for the unlawful clearing of indigenous vegetation and construction of chicken lay houses, Molote City, North West Province, Baramakama Poultry (Pty) Ltd.

### ENVIRONMENTAL CONTROL OFFICER/AUDITING

- Environmental Control Officer for the rehabilitation of Divisional Road 1688 from Calitzdorp (KM 1.00) to the Calitzdorp Spa Turnoff (KM 15.64), Western Cape Province, BVi Consulting Engineers.
- Environmental Control Officer for the periodic maintenance of TR1/2, TR1/3, TR44/1, TR88/1, MR401, MR402 and DR1834, near Uniondale, Western Cape Province, Western Cape Department of Transport and Public Works.
- External environmental compliance auditing for the upgrade of the Caledon-Myddleton bulk sewer main (Phase 3), Caledon, Western Cape Province, Theewaterskloof Local Municipality.
- External environmental compliance auditing for the upgrade of the Caledon-Myddleton bulk sewer main (Phase 4), Caledon, Western Cape Province, Theewaterskloof Local Municipality.
- Environmental Authorisation Compliance Checklist for the Development of a Telecommunication Mast and Associated Infrastructure on Portion 21 of Farm Bakkely's Plaat No. 156, Buffelsjags River, Swellendam, Western Cape, Coast to Coast Towers (Pty) Ltd.
- Environmental Authorisation Compliance Checklist for the Development of a Cellular Telecommunications Base Station and Associated Infrastructure on Portion 76 of Farm No. 106, Robertson, Western Cape, Coast to Coast Towers (Pty) Ltd.
- External Environmental Compliance Audit for the Atmospheric Emission Licence for the PetrosSA Bloemfontein Depot, Free State, PetroSA.

### ENVIRONMENTAL REHABILITATION PLAN

- Environmental rehabilitation plan for all the areas affected by the continuous spillage of raw sewage in and around Upington, Northern Cape Province, Dawid Kruijer Local Municipality.

### BASIC ASSESSMENT EXPERIENCE

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- The proposed construction of a cellular telecommunications base station and associated infrastructure on Portion 76 of Farm No. 106, Robertson, Western Cape Province, Coast to Coast Towers (Pty) Ltd.
- The proposed construction of a cellular telecommunications base station and associated infrastructure on Portion 1 of Farm No. 178, Fisantekraal, City of Cape Town, Western Cape Province, Coast to Coast Towers (Pty) Ltd.
- The proposed development of a telecommunication base station and associated infrastructure on Portion 8 of the Farm Delta no. 1003, Groot Drakenstein, Western Cape Province, Coast to Coast Towers (Pty) Ltd.
- Proposed development of a free standing cellular communication base station and associated infrastructure on Portion 7 of the Farm Haane Kuil no. 335, Beaufort West, Western Cape Province, Warren Petterson Planning (Pty) Ltd.
- The proposed development of a filling station on Portion 538 of the Farm Zevenfontein no. 407, Broadacres, Johannesburg, Gauteng Province, TTP Consult (Pty) Ltd.

### INTEGRATED ENVIRONMENTAL AUTHORISATIONS

- Amendment of the Environmental Integrated Authorisation for the Continuous Ash Disposal at Matimba Power Station, Lephalale, Limpopo Province, Eskom Holdings SOC Ltd.

### ENVIRONMENTAL MANAGEMENT PLANS

- The proposed construction of a cellular telecommunications base station and associated infrastructure on Portion 76 of Farm No. 106, Robertson, Western Cape Province, Coast to Coast Towers (Pty) Ltd.
- The proposed construction of a cellular telecommunications base station and associated infrastructure on Portion 1 of Farm No. 178, Fisantekraal, City of Cape Town, Western Cape Province, Coast to Coast Towers (Pty) Ltd.
- The proposed development of a telecommunication base station and associated infrastructure on Portion 8 of the Farm Delta no. 1003, Groot Drakenstein, Western Cape Province, Coast to Coast Towers (Pty) Ltd.
- Proposed development of a free standing cellular communication base station and associated infrastructure on Portion 7 of the Farm Haane Kuil no. 335, Beaufort West, Western Cape Province, Warren Petterson Planning (Pty) Ltd.
- The proposed development of a filling station on Portion 538 of the Farm Zevenfontein no. 407, Broadacres, Johannesburg, Gauteng Province, TTP Consult (Pty) Ltd.
- Section 24G Application for the unlawful clearing of indigenous vegetation and construction of chicken lay houses, Molote City, North West Province, Baramakama Poultry (Pty) Ltd.
- Construction and Maintenance Environmental Management Plan for the proposed rehabilitation of Tafelberg Road, extending from the intersection at Tafelberg Road and Kloofnek Road (SV0) to the Lower Cableway Station (SV1351), City of Cape Town, Western Cape Province, City of Cape Town Metropolitan Municipality.

### EXPERIENCE IN PERMITS AND LICENCING

- Flora removal permit and translocation guidelines for the periodic maintenance of National Route 2 Section 4 between Rivieronderend (km 0.0) and Swellendam (km 56.9), Western Cape Province, SANRAL.
- Flora removal permit for the re-surfacing of the Donkergat Access Road located within the Langebaan 4 Special Forces Regiment Base, Langebaan, Western Cape, Department of Public Works.
- Fauna and flora removal permits for the upgrading of intersections and resealing of road sections between Hotazel and Black Rock, Northern Cape, SMEC.
- Flora removal permit for the rehabilitation of Divisional Road 1688 from Calitzdorp (KM 1.00) to the Calitzdorp Spa Turnoff (KM 15.64), Western Cape Province, BVi Consulting Engineers.

### ECOLOGICAL IMPACT ASSESSMENT EXPERIENCE

- Botanical Impact Assessment for the Environmental Screening Process for the proposed Gromis-Nama-Aggeneis 400kV IPP integration power line, Northern Cape Province, Eskom SOC Ltd.
- Ecological Impact Assessment for the proposed development of 100 erven on Erf 210 in Sutherland, Karoo Hoogland Local Municipality, Northern Cape, COGHSTA Northern Cape.
- Ecological Impact Assessment for the periodic maintenance of National Route 2 Section 4 between Rivieronderend (km 0.0) and Swellendam (km 56.9), Western Cape Province, SANRAL.
- Flora identification study for the re-surfacing of the Donkergat Access Road located within the Langebaan 4 Special Forces Regiment Base, Langebaan, Western Cape, Department of Public Works.

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- Quarterly monitoring assessment for the rehabilitation efforts on Portion 5 of Farm 830 Doornekraal, Malmesbury, Western Cape.
- Rehabilitation feedback and framework report for the rehabilitation efforts on Portion 5 of Farm 830 Doornekraal, Malmesbury, Western Cape.
- Botanical inspection and recommendations for vegetation rehabilitation at 13 Duikerweg, Melkbosstrand, Western Cape.
- Botanical inspection along R60 selected road crossing and road widening between Worcester and Ashton, Western Cape, BVi Consulting Engineers.
- Ecological Impact Assessment for the proposed development of the Mapungubwe Visitor Interpretation Centres and Overnight Facilities, Limpopo Province, SANParks.
- Ecological Impact Assessment for the proposed upgrade of the existing R27 entrance gate to the West Coast National Park, Western Cape Province, SANParks.
- Ecological Impact Assessment for the proposed development of Erf 3976 for a mixed use development in Hartswater, Phokwane Municipality, Northern Cape, Makespace Architects.
- Ecological Impact Assessment for the proposed construction of a cellular telecommunications base station and associated infrastructure in Roodekrans, Gauteng, Coast to Coast Towers (Pty) Ltd.
- Ecological Impact Assessment for the proposed construction of six lay houses and two new production (hen) houses at Frans Dam Farm, No. 803 Portion 3 in Brandfort, Free State, Moreson Pluimvee Boerdery (Pty) Ltd.
- Ecological Impact Assessment for the 24G Application for the unlawful clearing of indigenous vegetation and construction of chicken lay houses, Molote City, North West Province, Baramakama Poultry (Pty) Ltd.
- Ecological Impact Assessment for the proposed construction of a composting facility on Farm No. 1136 Terugval Portion 1 in Brandfort, Free State, Moreson Pluimvee Boerdery (Pty) Ltd.
- Ecological Impact Assessment for the 24G Application for the unlawful construction of a poultry farm, Belgie, Thaba 'Nchu, Free State, Country Bird Holdings.
- Ecological Impact Assessment for the the periodic maintenance of TR1/2, TR1/3, TR44/1, TR88/1, MR401, MR402 and DR1834, near Uniondale, Western Cape Province, Western Cape Department of Transport and Public Works.
- Botanical Survey for the proposed 20m monopole mast and base station on Erf 455, Simon's Town, Western Cape Province, Atlas Tower (Pty) Ltd.
- Flora- and Terrestrial Biodiversity Impact Assessment for the proposed construction of a water pipeline between Noenieput and Swartkop Dam, Northern Cape Province, Kalahari-East Water Users Association.
- Ecological close-out report for the Xina Solar One thermal plant (Phase 2) and its associated infrastructure, Northern Cape Province, Abengoa Solar.

### **ALIEN INVASIVE SPECIES MANAGEMENT EXPERIENCE**

- Preparation of a plan to control and eradicate invasive species as contemplated in Section 76 of the Act, National Environmental Management: Biodiversity Act, 2004 (Act No.10 Of 2004) (NEMBA) for Theewaterskloof Local Municipality.
- Baseline Biodiversity Database and Alien Management Strategy Recommendations, Drakenstein, Western Cape, Drakenstein Municipality.
- Review and presentation of Lafarge Saldanha Alien Invasive Species Management Plan, Saldanha, Western Cape Province, Lafarge South Africa.
- Alien Invasive Species Training for staff and management, Saldanha, Western Cape Province, Lafarge South Africa.
- The Alien invasive species management plan for the Roads Services of the Garden Route District Municipality, Western Cape Province, Garden Route District Municipality (Review of final plan, project management and fieldwork).

### **OTHER ENVIRONMENTAL CONSULTING WORK**

- Environmental Statement for Erf 3301 and 8622 Hout Bay for the Conversion of Current Development Rights – Retirement Complex, Hout Bay, City of Cape Town, Western Cape Province, Riverside Guesthouse.
- Recommendations on the Environmental Authorisation Conditions Resulting from the Ecological Impact Assessment Done for the Residential Development on the Farm Lilyvale 30/2313, Bloemfontein, Mangaung Metropolitan Municipality, Free State Province, Free State Department of Economics, Small Business Development, Tourism and Environmental Affairs (DESTEA).
- Environmental Consultant for the Provision of Professional Services: Planning, Preliminary Design, Concept Design, Detail Design, Tender Documentation and Construction Supervision for a City-Wide Public Transport Infrastructure

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Programme - Maitland Public Transport Interchange (PTI), City of Cape Town, Western Cape Province, BVi Consulting Engineers Western Cape (Pty) Ltd on Behalf of The City of Cape Town Metropolitan Municipality.

- Environmental Consultant for the Provision of Professional Services: Planning, Preliminary Design, Concept Design, Detail Design, Tender Documentation and Construction Supervision for a City-Wide Public Transport Infrastructure Programme - Durbanville Public Transport Interchange (PTI), City of Cape Town, Western Cape Province, BVi Consulting Engineers Western Cape (Pty) Ltd on Behalf of The City of Cape Town Metropolitan Municipality.
- Environmental Consultant for the Provision of Professional Services: Planning, Preliminary Design, Concept Design, Detail Design, Tender Documentation and Construction Supervision for a City-Wide Public Transport Infrastructure Programme - 83 Permanent MyCiTi Bus Stops, City of Cape Town, Western Cape Province, BVi Consulting Engineers Western Cape (Pty) Ltd on Behalf of The City of Cape Town Metropolitan Municipality.
- External Investigation Report for the Composting Facility of WD Hall Transport (Pty) Ltd Outside Heidelberg, Lesedi Local Municipality, Gauteng Province, Nigel Goldfields Lodge cc T/A De Pecan Valley.
- Confirmation of Water Use Registrations for the Portion Uitkyk 5 of the Farm Bosch Rivier no. 119, near Montague, Western Cape Province, Jap van der Merwe.

### APPEAL PROCESSES

- Appeal process for the proposed development of a telecommunication base station and associated infrastructure on Portion 8 of the Farm Delta no. 1003, Groot Drakenstein, Western Cape Province, Coast to Coast Towers (Pty) Ltd.
- Appeal process for the Section 24G Application for the unlawful clearing of indigenous vegetation and construction of chicken lay houses, Molote City, North West Province, Baramakama Poultry (Pty) Ltd.