

PROOF OF CONSULTATION (MINUTES, NEWSPAPER ADVERTS, ETC)

APPENDIX E: LIST OF REGISTERED STAKEHOLDERS AND INTERESTED & AFFECTED PARTIES (I&APS)

Registered Interested and Affected Parties (I&APs) / Stakeholders

Environmental Scoping Assessment (ESA): Proposed Construction and Operation of Four Oxidation (Sewage) Ponds in Tses Village of the //Karas Region

No	Name	Position	Telephone / Mobile No.	Email Address
Serja Hydrogeo-Environmental Consultants - Environmental Assessment Practitioner				
1.	Ms. Fredrika Shagama	Principal Environmental Consultant & Hydrogeologist	Mobile: +264 (0) 81 407 5536	serja.consultants@gmail.com
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Tses Village Council: Local Authority				
6.	Mr. Fritz Christiaan	Chief Executive Officer	Tel.: +264 (0) 63 257 133 Mobile: +264 (0) 81 325 9270	freddoboys@gmail.com

No	Name	Position	Telephone / Mobile No.	Email Address
7.	Mr. Silas Amulungu	Artisan/Acting Village Council Planner	Tel.: +264 (0) 63 257 133	silasnamene@gmail.com
Ministry of Environment, Forestry and Tourism (Department of Environmental Affairs and Forestry) – Regulatory Authority				
8.	Mr. Teofilus Nghitila	Executive Director	Tel.: +264 (0) 61 284 2751	teofilus.nghitila@met.gov.na
9.	Mr. Timoteus Mufeti	Environmental Commissioner	Tel.: +264 (0) 61 284 2715	timoteus.mufeti@met.gov.na
Ministry of Agriculture, Water and Land Reform – Competent Authority				
10.	Mr. Percy Misika	Executive Director	Tel.: +264 (0) 61 208 7696	Percy.Misika@mawf.gov.na
11.	Ms. Maria Amakali	Director: Water Resources Management	Tel.: +264 (0) 61 208 7167	Maria.Amakali@mawf.gov.na
12.	Mr. Franciskus Witbooi	Deputy Director: Water Policy & Water Law Administration Division (Directorate of Water Resource Management), Dept of Water Affairs	Tel.: +264 (0) 61 208 7158	Franciskus.Witbooi@mawf.gov.na
13.	Ms. Elise Mbandeka	Chief Hydrologist: Water Environment Division (Directorate of Water Resource Management), Dept of Water Affairs	Tel.: +264 (0) 61 208 7167	Elise.Mbandeka@mawf.gov.na
14.	Mr. Mattheus Hambabi	Senior Hydrologist: Water Monitoring for //Karas Region	Mobile.: +264 (0) 81 356 6534	Mattheus.Hambabi@mawlr.gov.na , fellohambabi@gmail.com
15.	Mr. Tobias Linus	Basin Support Officer (OFBMC): Dept of	Mobile.: +264 (0) 81 239 3062	Tobias.Linus@mawlr.gov.na , fbmcoffice@gmail.com , linutoby@gmail.com

No	Name	Position	Telephone / Mobile No.	Email Address
		Water Affairs		
Ministry of Health and Social Services				
16.	Mr. Benetus Nangombe	Executive Director	Tel.: +264 (0) 61 203 2019 / 2020	Ben.Nangombe@mhss.gov.na PS.Office@mhss.gov.na
17.	Mr. Barth Muntenda	Director: //Karas Regional Health Directorate	Tel.: +264 (0) 63 220 9187/8 Mobile: +264 (0) 81 229 4441 / +264 (0) 81 166 3721	Barth.Muntenda@mhss.gov.na
Ministry of Works and Transport				
18.	Mrs. Esther Kaapanda	Executive Director	Tel.: +264 (0) 61 208 8822 / 31	Esther.Kaapanda@mwt.gov.na
19.	Ms. Charleen Benade	Secretary to the Executive Director		secretaryps@mwtc.gov.na pssecretary@mwtc.gov.na
Ministry of Urban and Rural Development				
20.	Mr Nghidinua Daniel	Executive Director (ED)	Tel.: +264 (0) 61 297 5180	ndaniel@murd.gov.na
21.	Ms. Bernice Van Wyk	Personal Assistant to the ED		bvanwyk@murd.gov.na
22.	Ms. R. Ruben	Secretary to the ED		rruben@murd.gov.na
Ministry of Labour, Industrial Relation and Employment Creation				
23.	Mr. Bro-Matthew Shinguadja	Executive Director	Tel.: +264 (0) 61 206 6324	Bro.Matthew.Shinguadja@mol.gov.na
Roads Authority				

No	Name	Position	Telephone / Mobile No.	Email Address
24.	Mr Conrad M. Lutombi	Chief Executive Officer	Tel.: +264 (0) 61 284 7074	lutombiC@ra.org.na
25.	Mr Eugene de Paauw	Senior Specialist Road Legislation, Advice & Compliance NP&C	Tel.: +264 (0) 61 284 7027	dePaauwe@ra.org.na
NamWater				
26.	Mr. Nicolaas P. Du Plessis	Senior Environmentalist	Tel.: +264 (0) 61 710 000	Plessisn@namwater.com.na
//Karas Regional Council				
27.	Hon. Aletha Frederick	Governor	Tel.: +264 (0) 63 225 627	governor@kharasog.gov.na
28.	Mr. Beatus Okeri Kasete	Chief Regional Officer (CRO)	Tel.: +264 (0) 63 221 900	w.isaaks@karasrc.gov.na
29.	Hon. David Boois, MP	Councillor: Berseba Constituency (BC)	Tel.: +264 (0) 63 257 215	senoritaapril0@gmail.com
30.	Ms. Senorita April	Administration Officer: BC		
Tses Village Council				
31.	Mr. Fritz Christiaan	Chief Executive Officer	Tel.: +264 (0) 63 257 133 Mobile: +264 (0) 81 325 9270	freddoboy@gmail.com
32.	Mr. Silas Amulungu	Artisan/Acting Village Council Planner	Tel.: +264 (0) 63 257 133	silasnamene@gmail.com
33.	Mr. Abraham Goliath	Chairperson: Tses Village Council	Tel.: +264 (0) 63 257 133 Mobile: +264 (0) 81 667 3663	
Non-Governmental Organisations (NGOs)				

No	Name	Position	Telephone / Mobile No.	Email Address
34.	Mr. Chris Tjivangurura	Chief Complaints Investigator: Ombudsman Regional Representative	Tel.: +264 (0) 63 221 028 Mobile: +264 81 155 8969	ctjivang@ombudsman.org.na saultjivangurura@gmail.com
Other I&APs (Members of the Public)				
35.	Ms. Ruweide Julius	Process Engineer: Aqua Services and Engineering	Tel.: +264 (0) 61 261 143 Mobile: +264 81 168 6956	ruweide.schrywer@veolia.com
36.	Mr. Alex Busch	Position not provided: Aqua Services and Engineering	Tel.: +264 (0) 61 261 143	alex.busch@veolia.com
37.	Mr. Jacobus Booysen	Tses Community member	Mobile: +264 (0) 81 337 8440	
38.	Ms. Anna Motinga	Tses Community member	Mobile: +264 (0) 81 259 4048	
39.	Mr. Bradley Juhrs	Tses Community member	Mobile: +264 (0) 81 829 0024	
40.	Ms. Katrina Garises	Tses Community member	Mobile: +264 (0) 81 443 8191	
41.	Ms. Lydia Eixas	Tses Community member	Mobile: +264 (0) 81 602 1455	
42.	Mr. Andreas P. Tseitseimou	Tses Community member	Mobile: +264 (0) 81 603 3730	
43.	Ms. A. M Witbooi	Tses Community member	Mobile: +264 (0) 81 405 7268	
44.	Ms. Sandra J. Berendze	Tses Community member	Mobile: +264 (0) 81 340 6208	
45.	Ms. Irene J. Cloete	Tses Community member	Mobile: +264 (0) 81 421 5514	ireneclote98@gmail.com
46.	Ms. Mariam Frederick	Tses Community member	Mobile: +264 (0) 81 259 4547	elmatjiefrederick@gmail.com
47.	Ms. Sarah Boois	Tses Community member	Mobile: +264 (0) 81 209 6857	

No	Name	Position	Telephone / Mobile No.	Email Address
48.	Mr. Ricardo April	Tses Community member	Mobile: +264 (0) 81 607 3346	
49.	Ms. Veronica Fredericks	Tses Community member	Mobile: +264 (0) 81 233 5751	
50.	Ms. Fredrika Smith	Tses Community member	Mobile: +264 (0) 81 711 3944	
51.	Mr. Abraham Kaffer	Tses Community member	Mobile: +264 (0) 81 377 8874	
52.	Ms. Wilhelmina Shivute	Tses Community member	Mobile: +264 (0) 81 205 8867	
53.	Ms. Silfriede Hanse	Tses Community member	Mobile: +264 (0) 81 878 4749	
54.	Mr. Komeya Hikonye	Tses Community member	Mobile: +264 (0) 81 737 8550	

**APPENDIX F: PROOF OF BACKGROUND INFORMATION
DOCUMENT (BID) AND ITS CIRCULATION TO PRE-IDENTIFIED
STAKEHOLDERS AND I&APS**

BACKGROUND INFORMATION DOCUMENT
(BID)

**ENVIRONMENTAL SCOPING ASSESSMENT
(ESA) FOR THE PROPOSED CONSTRUCTION
AND OPERATION OF OXIDATION (SEWER)
PONDS IN TSES, //KARAS REGION: AN
APPLICATION FOR THE ENVIRONMENTAL
CLEARANCE CERTIFICATE (ECC)**

**Proponent: Dunamis Consulting Engineers
& Project Managers (Pty) Ltd**



Author: Fredrika N. Shagama

October 2020

1 INTRODUCTION

As appointed by the Tses Village Council, Dunamis Consulting Engineers & Project Managers (Pty) Ltd (hereinafter referred to as *Dunamis* or *the Proponent*) are planning to construct four oxidation (sewer) ponds in Tses Village of the //Karas Region in southern Namibia. The site planned for the ponds' construction and operation is located on the southwestern side of the Village where the current dilapidated oxidation ponds are. The proposed site covers an area of 50 000 square metres (m²) or 5 hectares (ha).

1.1 The Need for an Environmental Clearance Certificate (ECC)

The construction and operation of waste treatment sites and associated works such as the proposed oxidation ponds is one of the listed activities in the Environmental Impact Assessment (EIA) Regulations (2012) of the Environmental Management Act (EMA) No. 7 of 2007 that may not be undertaken without an Environmental Clearance Certificate (ECC). The listed activities that are relevant to proposed project are as follows:

- ***Regulation 2.1 The construction of facilities for waste sites, treatment of waste and disposal of waste.***

- ***Regulation 8.6 The construction of industrial and domestic wastewater treatment plants and related pipeline systems.***

Therefore, to comply with the EMA and its Regulations and ensure environmental sustainability, Dunamis appointed Serja Hydrogeo-Environmental Consultants cc, independent environmental consultants to apply for the ECC on their behalf. Part of the ECC application process include the submission of a hard copy of the ECC application to the Ministry of Agriculture, Water and Land Reform (MAWLR), as the project Competent Authority.

The date stamped copy of the ECC application (by MAWLR) is then uploaded on the ECC Portal of the Ministry of Environment, Forestry and Tourism (MEFT) as the Regulatory Authority, for project registration purposes.

The next component of the ECC application is to undertake an environmental scoping assessment (ESA) process, which entails baseline assessment of the biophysical and social environment and public consultation. The findings of the ESA process are then incorporated into an ESA Report and a draft Environmental Management Plan (EMP) is also developed for the proposed project. The two documents and associated documents are then submitted to the MEFT's Department of Environmental Affairs and Forestry (DEAF) for evaluation and consideration of the ECC.

1.2 Why is an ESA Required?

The purpose of ESA and subsequent ECC issuance is to ensure that the proposed project activities are undertaken in an environmentally friendly and sustainable manner. This will however be done by the effective implementations of environmental and social management measures recommended in the EMP. The aim will be to minimize the potential adverse (negative) identified impacts stemming from the project activities while maximizing the positive impacts.

1.3 Project Location

The proposed sewer ponds' site is located on the southwestern side (edge) of the Tses Village. Tses Village is located between the towns of Mariental (155 km north) and Keetmanshoop (about 80 km south) along the B1 main road that connects the central and southern parts of Namibia. The site map is shown in **Figure 1** and the approximate site point coordinates are **-25.887947° 18.116839° or 25°53'16.61"S 18° 7'0.62"E**.

1.4 Aim of this Document

This background information document (BID) has been developed as part of the ECC application and to:

- Introduce the potential stakeholders / interested and affected (I&APs) to the proposed project, mainly the ESA process so that they can understand the need for their participation.
- Present the brief background of the proposed project and its associated activities.
- Inform the I&APs why they need to be involved in the ESA process and how they can be involved. Once the I&APs understand that, they will be able to provide their input to the process in a form of comments, raising concerns / issues and suggestions related to the proposed activity that will need to be considered in the ESA Report.



Figure 1: Locality map of the proposed sewer ponds site in Tses Village, //Karas Region

2 PROJECT NEED AND DESIRABILITY

The Tses Village Council has been managing its wastewater by using two existing ponds at the proposed site, i.e. where the new ponds will be constructed. However, according to the Proponent (2020), these existing ponds are now in a very bad (dilapidated) and unsafe state, such that local children and animals swim in and drink from the ponds, respectively. The existing ponds' site was fenced off, but the fence has fallen apart, and as a result it cannot keep children and animals out. For these reasons, the existing ponds need to be replaced and the site secured so that the Village Council can manage its wastewater (effluent) better.

The wastewater will be treated as per acceptable national standards (with a discharge permit from the relevant water regulatory body) so that it can be safely used in the environment, for irrigational purposes. The Namibian Division responsible for this permit issuance is the Water and Environment of the Department of Water Affairs (DWA) at the Ministry of Agriculture, Water and Land Reform (MAWLR).

The wastewater management facility will be a much-needed contribution to the local community's public and environmental health improvement. This would be achieved through efficient treatment of waste in a more environmentally friendly manner and ensure the good health of the surrounding biophysical and social environment.

It is for these reason that the new ponds need to be constructed.

3 PROJECT DESCRIPTION

The proposed project involves the construction of four new oxidation ponds. The anticipated associated activities will include site clearance, earthworks, concrete works, lining and fencing by the appointed reputable and experienced construction contractor.

Given the dilapidated state of the two existing ponds, these will be demolished to make way for the construction and operation of new wastewater management ponds.

3.1 Oxidation Ponds: Definition

Oxidation ponds, also called lagoons or stabilization ponds, are large, shallow ponds designed to treat wastewater through the interaction of sunlight, bacteria, and algae (Encyclopaedia Britannica, 2020).

3.2 Construction Phase

During this phase, the site will be cleared in preparation of the subsequent project activities.

Earthworks will be carried out on the site areas planned for the establishment of the four ponds. The concrete works will be done followed by surface lining of the ponds' base to prevent leaching of effluent into the ground during the operational phase.

To ensure that the ponds are secured and protected from possible public unauthorized access, and most importantly protecting the public, especially local children, a razor mesh fence will be erected around the ponds' area.

Construction period: The construction activities are anticipated to last for five months.

3.2.1 Required Resources and Services Infrastructure

Human resources: the construction work will require about fifteen (15) people; therefore 15 people will be temporary employed (both skilled, semi-skilled and unskilled). Priority for employment will be given to the locals for any project related job that they are qualified for or capable of carrying out.

Contractors' Accommodation: the construction workforce (workers) will be accommodated in tented facilities that will be set up near the site.

Vehicles and machinery: there will be light, medium, and heavy vehicles to be used for different project activities. The heavy vehicles such as trucks would be needed to transport construction materials and equipment to and from site (as needed). The light vehicles such as bakkies and small buses will be used to transport workers around, to and from site (as and when required). These light vehicles may also be used to transport or move certain project materials and substances on site. Medium vehicles such as excavators will be used to carry out earthworks and other related activities.

Water: A certain amount of water will be required for concrete works and other related project activities as well as for human consumption (drinking water) on site. However, the exact volume of water required is not known at this stage. The required water will either be sourced from the Tses Village Council supply line (upon reaching an agreement with the contractor) or will be brought to site from elsewhere by the contractor.

Fuel: the power required for construction works will be supplied by diesel powered generators.

Site access: the oxidation ponds' site is accessible via the access road currently used to get to the existing dilapidated oxidation ponds at the site. The same access road will be used during the construction works and subsequent operational and maintenance activities.

Health and safety: all construction workers will be supplied with appropriate and adequate personal protective equipment (PPE) while carrying project activities onsite. The site will also be equipped with a minimum of two first aid kits and fire extinguishers.

Waste management (general): all waste generated from the construction activities will be sorted, stored on site in designated waste containers and carted to the approved local landfill site.

Human waste/sanitation: the appointed contractor will ensure that the site is equipped with portable chemical toilets for the workers and possibly project related visitors. The toilets will need to be emptied according to the manufacturer's instruction.

3.3 Operational & Maintenance Phase

Once in operation, the wastewater (effluent) from the Tses Village Council wastewater system will be treated in the newly constructed and equipped ponds using the suitable treatment techniques and processes. The ponds are expected to be operated 24 hours, 7 days (everyday).

The ponds will be operated and maintained by the Tses Village Council.

3.3.1 *Input and Treatment Process*

General operating procedure of oxidation: When treating waste at the oxidation ponds, the algae that is required for the process, is grown using energy from the sun and carbon dioxide and inorganic compounds released by bacteria in the water. During the process of photosynthesis, the algae release oxygen needed by aerobic bacteria.

According to the Encyclopaedia Britannica (2020), mechanical aerators are sometimes installed to supply yet more oxygen, thereby reducing the required size of the pond. Sludge deposits in the pond must eventually be removed by dredging. Algae remaining in the pond effluent can be removed by filtration or by a combination of chemical treatment and settling.

The proposed layout (drawings) of the Tses oxidation ponds are shown in **Figure 2**.

3.3.2 *Wastewater Treatment Output*

The slurry (effluent) will be stored in the ponds. The final effluent will be treated so that it is compliant with and have a quality equal or better than the specified quality for the General Standards as laid out in the Government Gazette Regulation R553 of 5 April 1962, in Section 21(1) and 21(2) of the Water Act (Act No 54 of 1956). In other words, the remaining (dry) slurry will be treated in accordance with acceptable environmental standards so that it can be used in the environment for irrigation purposes in Tses or nearest areas where it may be required.

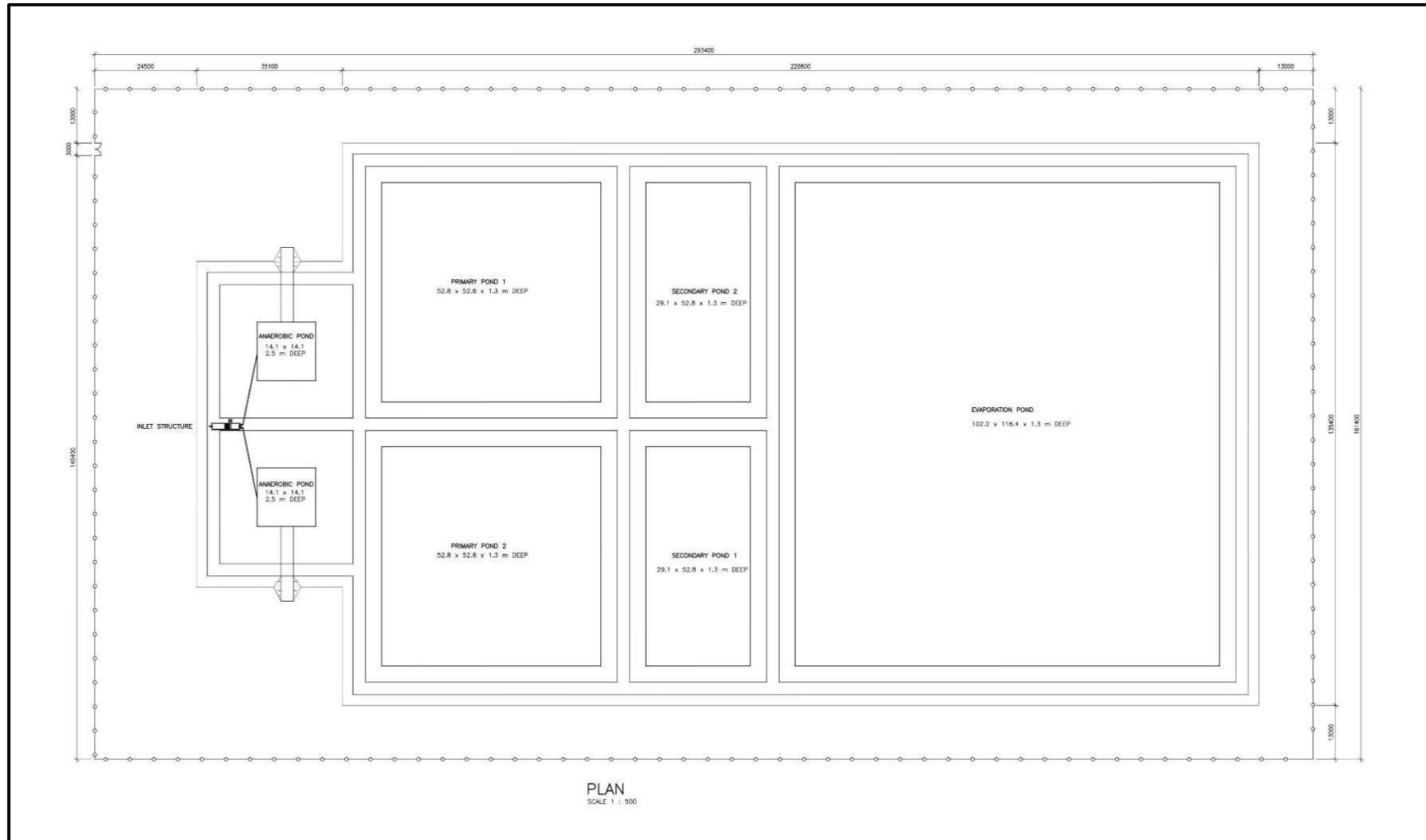


Figure 2: The proposed drawings (site layout) of the oxidation ponds (Source: The Proponent, 2020)

4 ESA PROCESS STEPS

The following steps are followed for this ESA process:

- **Step 1: Project initiation** - ECC application with MAWLR and project registration at the DEAF, development of stakeholders list and compilation of Background Information Document (BID).
- **Step 2: Baseline assessment** - Literature and legal review (desktop study) of applicable data sources.
- **Step 3: Ongoing Public Consultation and facilitation (throughout the ESA process).** This entails the pre-identification of and consultation with key stakeholders or interested and affected parties (I&APs). The two consecutive weeks' ESA notification has been placed in the Namibia Media Holdings (NMH)'s two of *The Market Watch* newspapers (*Die Republikein* and *Namibian Sun*). The first advert was placed on Monday, 12 October 2020 and the second advert will be on Monday, 19 October 2020. A planned public consultation meeting will be arranged and held in Tses Village.
- **Step 4: Information sharing** - Circulation of the Background Information Document (BID) to pre-identified I&APs and members of the public who have requested for ESA registration.
- **Step 5: Site visit / assessment and Public meeting** - A public consultation meeting will be held in Tses.
- **Step 6: Reporting** - Compilation of the draft Environmental Scoping Assessment Report & EMP and other relevant documents.
- **Step 7: Public Review** - Circulating the draft ESA report and EMP to the I&APs for review and comments.
- **Step 8: Final Reporting and Submission** - Finalization of the Environmental Scoping Report and Draft EMP and submission of the final ESA report and draft EMP to the regulatory authority (MEFT) for evaluation and consideration of ECC issuance.
- **Stage 9: Follow-Up with the Competent Authorities** - follow-up on ESA report evaluation with the DEAF until such time that the ECC is issued.

4.1 Potential impacts

The development of waste management facilities is usually associated with some impacts, both positive and negative. The potential impacts that have been identified so far are as follows:

Positive:

- Socio-economic development through temporary job (employment) creation in the Village during the construction phase.

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- Improved wastewater management in the Village, thus preventing the amount of wastewater that would otherwise be uncontrollably released into the environment due to the dilapidated state of the existing ponds. This would improve the local public and environment health.
- **Vehicular traffic:** potential increase in local traffic due to construction activities on site, especially.
- **Health and safety:** improper handling of site materials and equipment may cause health and safety risks.
- **Archaeological or cultural heritage** impact through uncovering of unknown objects on site (when carrying out earthworks).

Negative:

The following potential negative impacts may be anticipated:

- **Soil and water pollution:** improper handling of wastewater (sewage) may lead to pollution of surrounding soils and eventually water resources systems (through wastewater runoff and infiltration).
- **General environmental pollution** through mishandling of project related waste during construction and operational phases.
- **Loss of biodiversity** through the removal of vegetation that may be found within the planned expansion of the site footprints.
- **Air pollution** by potential dust on untarred roads and gas emissions from construction activities (excavations, heavy vehicles, and machinery).
- **Odour:** Some by-products of anaerobic digestion used in wastewater treatment facilities, may give off a strong, nauseating smell. This may affect the locals in proximity of the ponds.

4.2 Public Meeting and ESA Comments/Concerns

A Public Consultation Meeting will be held with Interested & Affected Party (I&AP) in Tses towards the end of October 2020. **The meeting details will be communicated at least 7 days before the intended meeting date.**

Should you wish to send us your input and/or comments to be considered for this ESA, please send these in writing to the following details before or on **Friday, 30 October 2020.**

Contact Person: Ms. Fredrika Shagama

Email: serja.consultants@gmail.com

Mobile: +264 81 407 5536

Postal address: P.O. Box 27318
Windhoek, Namibia



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serja.consultants@gmail.com
P. O. Box 27318, Windhoek
Namibia

Date: 01 October 2020

ENVIRONMENTAL ASSESSMENT FOR THE PROPOSED CONSTRUCTION AND OPERATION OF NEW OXIDATION (SEWER) PONDS IN TSES, //KARAS REGION: *PROOF OF BID CIRCULATION TO PRE-IDENTIFIED I&APS AND PUBLIC MEETING INVITATION VIA EMAIL*

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Notification of an Environmental Scoping Assessment (ESA) for the Proposed Construction and Operation of Four Oxidation (Sewer) Ponds in Tses Village of the //Karas Region: Background Information Document (BID) [Inbox x](#)

SERJA **Serja Hydrogeo-Environmental Consultants** <serja.consultants@gmail.com> Tue, Oct 13, 8:56 AM ☆ ↶ ⋮
to bcc: Solidarity, bcc: Kenny, bcc: Ashipala, bcc: Abisal, bcc: Ivy, bcc: teofilus.nghtila, bcc: timoteus.mufeti, bcc: Percy.Misika, bcc: Maria Amakali, bcc: Franciskus Witbooi, bcc: Elise Mbandeka, bcc: Ben.Nangombe, bcc: PS.Office, bcc: Barth Munte

Dear Stakeholder / Interested & Affected Party,

Dunamis Consulting Engineers & Project Managers (Pty) Ltd (The Proponent) as appointed by the Tses Village Council are planning to construct four new oxidation (sewer) ponds in Tses Village, //Karas Region. The aim is to improve the sewage waste management to ensure the protection and promotion of Public and Environmental Health in the Village because the current ponds are dilapidated, i.e. in a very bad state.

The construction of waste management facilities is one of the listed activities that cannot be undertaken without an Environmental Clearance Certificate (ECC) as per the 2012 Environmental Impact Assessment (EIA) Regulations of the Environmental Management Act (EMA) No. 7 of 2007. The Proponent has then appointed Serja Hydrogeo-Environmental Consultants cc, independent Environmental Consultants to conduct the required Environmental Scoping Assessment (ESA) process and apply for the ECC.

Furthermore, Section 21 to 24 of the EIA Regulations requires that Public Consultation is undertaken as one of the crucial components of the Environmental Assessment, which involves the pre-identification of potential Interested & Affected Parties (I&APs) or Stakeholders and registration of new I&APs and subsequent consultation. With that said, you have been identified as a potential I&AP for this proposed activity in Tses, and the reason you are receiving this communication. **Please find the attached file, the proposed project Background Information Document (BID).**

[Please note that a Public Consultation meeting will be held in Tses towards the end of October 2020. The meeting details \(date, time and venue\) will be communicated to you.](#)

Once the ESA process is completed, a draft ESA Report will be compiled and together with its associated documents will be shared with you for review and comments before we submit these to the Department of Environmental Affairs and Forestry (DEAF) of the Ministry of Environment, Forestry and Tourism (MEFT) for evaluation and consideration of the ECC.

Should you have any comments, questions or concerns that you would like us to include in the ESA Report, [please send them to us in writing before the end of business on Friday, 30 October 2020.](#)

Kind Regards,
Ms. Fredrika N. Shagama: Environmental Assessment Practitioner & Hydrogeologist

Serja Hydrogeo-Environmental Consultants

Groundwater & Environmental Consultants

Furthermore, Section 21 to 24 of the EIA Regulations requires that Public Consultation is undertaken as one of the crucial components of the Environmental Assessment, which involves the pre-identification of potential Interested & Affected Parties (I&APs) or Stakeholders and registration of new I&APs and subsequent consultation. With that said, you have been identified as a potential I&AP for this proposed activity in Tses, and the reason you are receiving this communication. **Please find the attached file, the proposed project Background Information Document (BID).**

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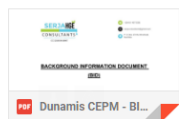
Should you have any comments, questions or concerns that you would like us to include in the ESA Report, please send them to us in writing before the end of business on Friday, 30 October 2020.

Kind Regards,
Ms. Fredrika N. Shagama: Environmental Assessment Practitioner & Hydrogeologist

Serja Hydrogeo-Environmental Consultants



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Sustainability is Tomorrow's Usage Assurance





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Announcement for the Public Consultation Meeting: Proposed Construction of 4 Oxidation Ponds in Tses Inbox x [Icons]

SERJA CONSULTANTS Serja Hydrogeo-Environmental Consultants <serja.consultants@gmail.com> Tue, Oct 20, 9:49 AM ☆ [Icons]
to fritz ▾

Good Morning Mr. Christiaan,

As per our telephonic communication earlier this morning regarding the public consultation meeting for the Oxidation Ponds' EIA, we are hereby requesting your good office to assist with announcing the public meeting. The aim of the consultation meeting is to allow the available local authority representative and community members (members of the public) to participate and provide their inputs to the proposed development in terms of comments, questions, concerns and suggestions via a one-on-one meeting with the consultant.

This is done to fulfil the requirements of the Environmental Management Act No. 7 of 2007' 2012 EIA Regulations on Public Consultation and Participation.

The meeting details are as follows:

- **Date: Thursday, 29 October 2020**
- **Time: 11h00**
- **Venue: Tses Village Community Hall in Tses**

Do we need to book the Community Hall ourselves (as Serja Consultants) or would the Village Council Office be willing to arrange for this? If we need to book it ourselves, kindly provide us with the contact details so that we can make the arrangement and also send out email meeting invitations to other registered Interested & Affected Parties.

Your assistance in this regard will be highly appreciated.

Best regards,
Ms. Fredrika Shagama

—
Serja Hydrogeo-Environmental Consultants

Services: Groundwater Studies; Exploration for water supply; Aquifer Testing, Sampling & Impact Assessment, Groundwater Abstraction & Use Permit Applications, Numerical Water Resources Modelling, Environmental Scoping/Impact Assessments & Management, Environmental Audit and Environmental Clearance Certificate (ECC) Renewals
Postal Address: P. O. Box 27318, Windhoek, Namibia



Notification of an Environmental Scoping Assessment (ESA) for the Proposed Construction and Operation of Four Oxidation (Sewer) Ponds in Tses Village of the //Karas Region: Background Information Document (BID) Inbox x

Serja Hydrogeo-Environmental Consultants Tue, Oct 13, 8:56 AM
Dear Stakeholder / Interested & Affected Party, Dunamis Consulting Engineers & Project Managers (Pty) Ltd (The Proponent) as appointed by the Tses Village Council

Serja Hydrogeo-Environmental Consultants <serja.consultants@gmail.com> Tue, Oct 20, 3:18 PM
to bcc: Solidarity, bcc: Kenny, bcc: Ashipala, bcc: Abisai, bcc: Ivy, bcc: teofilus.nghitila, bcc: timoteus.mufeti, bcc: Percy.Misika, bcc: Maria.Amakali, bcc: Franciskus.Witbooi, bcc: Elise.Mbandeka, bcc: Ben.Nangombe, bcc: PS.Office, bcc: Barth.Munte

Dear Stakeholder / Interested & Affected Party,

Following the email communication from the 13th of October 2020 (below), Serja Hydrogeo-Environmental Consultants hereby inviting you to the Public Consultation Meeting as part of the Environmental Scoping Assessment for the proposed construction and operation of the new oxidation (sewer) ponds in Tses Village, //Karas Region (please refer to the Background Information Document re-attached).

The Public Meeting details are as follows:

- **Date: Thursday, 29 October 2020**
- **Time: 11h00**
- **Venue: Tses Village Community Hall in Tses**

Kind regards,
Fredrika (Mobile: +264 81 407 5536)



APPENDIX G: NEWSPAPER ADVERTS (NOTIFICATION) FOR THE ENVIRONMENTAL ASSESSMENT PROCESS



The Chief Executive Officer (CEO) of FNB, Erwin Tjipuka. PHOTO NAMPA

Delivering to consumer's financial needs First National Bank recognised as the best bank in Namibia

Objective criteria considered included growth in assets, profitability, geographic reach, strategic relationships, new business development and innovation in products.

Global Finance magazine recognised First National Bank (FNB) as the best bank in Namibia at its 27th annual awards for the World's Best Banks.

The winners were chosen in more than 150 countries across Africa, Asia-Pacific, Central and Eastern Europe, Latin America, the Middle East, North America and Western Europe and were chosen based on "careful attendance to their customers' needs in difficult markets and the accomplishment of better results while lying in the

foundations for future success".

"All selections were made by the editors of Global Finance after extensive consultations with corporate finance executives, bankers, banking consultants and analysts throughout the world. In selecting these top banks, Global Finance considered factors that ranged from the quantitative objective to the informed subjective," the statement reads.

Objective criteria considered included growth in assets, profitability, geographic reach, strategic

relationships, new business development and innovation in products. Subjective criteria included the opinions of equity analysts, credit rating analysts, banking consultants and others involved in the industry.

Customer demand

Publisher and editorial director of Global Finance, Joseph Giarraputo was quoted in the statement as saying the banking industry is increasingly challenged by rising customer demands for safe real-time access with total control and broad

flexibility.

"For 27 years, the Global Finance Best Bank Awards have helped corporate treasurers and CFO's identify the banking partners most able to deliver top-notch financial services delivered via innovative technology," he said.

FNB Namibia Chief Executive Officer Erwin Tjipuka expressed gratitude toward the bank's loyal customers who consistently support the bank by making use of the products and services.

"Without you, we would not exist," he said. -Nampa

CALL FOR PUBLIC PARTICIPATION:

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The Proponent: Dunamis Consulting Engineers & Project Managers (Pty) Ltd

Appointed Environmental Consultant: Serja Hydrogeo-Environmental Consultants cc

The public is further invited to register as Interested and Affected Parties (I&APs) to comment or receive further information on the ESA process. Registration requests and comments should reach Serja **before end of business or on Friday, 30 October 2020.**



Contact: Ms. Fredrika Shagama (Principal Environmental Assessment Practitioner)

Email: serja.consultants@gmail.com

Mobile No.: +264 81 407 5536

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- Media Studies/ Broadcast Journalism
- Digital Marketing
- Videography/Animation

Eligibility for the bursary

- Namibian Citizenship
- Acceptance or provisional acceptance for full-time studies to a recognised SADC institution of higher learning.
- Passed grade 12 with a minimum of 25 point in 5 subjects.
- Grade 12 (2020 academic year) or first year at institution of Higher learning 2020.

Application forms can be downloaded from the NMH website at www.nmh.com.na or collected at the NMH reception at 11B Genl Murtala Muhammed Avenue, Eros, Windhoek.

Completed applications can be hand-delivered to: Namibia Media Holdings (Pty) Ltd 11B Genl Murtala Muhammed Avenue, Eros, Windhoek, Namibia or emailed to madri@nmh.com.na

Closing date: 16 October 2020 Interviews: 20 - 30 October 2020 Awards: 10 November 2020

Only shortlisted candidates will be contacted. If you have not been contacted within one month after the closing date, please consider your application as unsuccessful.



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NMH Marketing Manager: Publications: Hennie Geldenhuys
• Tel (061) 297 2201 • E-mail: hennie@nmh.com.na

Gen. Murtala Muhammed AVE P.O. BOX 3436, Windhoek
Tel: 061 297 2000; Fax: 061 223 721



The Chief Executive Officer (CEO) of FNB, Erwin Tjipuka. PHOTO NAMPA

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Email: serja.consultants@gmail.com Mobile No.: +264 81 407 5536

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REPUBLIC OF NAMIBIA

MINISTRY OF HEALTH AND SOCIAL SERVICES

Global Fund Grant

VACANCIES

The Ministry of Health and Social Services (MoHSS) with support from the Global Fund Grant is looking for dynamic, suitably qualified and experienced candidates to fill the following Vacancy

POSITION TITLE	FINANCIAL ADVISOR GRADE 1
Total Cost to company	N\$ 981 036.00 per annum
Duration	01 January 2021-31 December 2023 (Fixed term contract)
Duty Station	Windhoek-Programme Management Unit
Primary Roles	Provide strategic leadership and directive governing the financial and administrative framework of MOHSS Global Fund Programme along internationally accepted accounting standards, whilst ensuring effective grant financial performance.
Appointment Requirements	1. A Master's Degree in Accounting, Finance, or Business Administration and Chartered Accountant, Association for Chartered Certified Accounting (ACCA), Certified Public Accountants (CPA) or any other professional accounting qualification would be an added advantage. 2. 15 years' progressive responsibility of which 6 years must be at senior management level.

POSITION TITLE	SENIOR M&E OFFICER GRADE 6
Total Cost to company	N\$ 489 642.00 per annum
Duration	01 January 2021-31 December 2023 (Fixed term contract)
Duty Station	Windhoek-Programme Management Unit
Primary Roles	Responsible for collecting, collation, report and follow up of multisectoral data on HIV AIDS
Appointment Requirements	An appropriate B-degree or equivalent qualification on NQF L7 (Health, Social science or related), plus six years appropriate working experience in the field of Monitoring & Evaluation

NB: DIRECTIVES FOR SUBMITTING OF APPLICATIONS:

All Foreign qualifications must be submitted with their evaluation by the Namibian Qualification Authority (NQA) and failure to do so will lead to disqualification.

Interested applicants who meet the above requirements should submit their: (1) Application cover letter (2). Resume/Curriculum Vitae (CV), (3) Certified Copies of Identity Documents/Passport (4) Certified Copies of Qualifications and (5) Certified copies of Certificate of Services and (6) Other Credentials if any, to:

The Human Resources Manager
MoHSS Global Fund Grant
Private Bag 13198,
Directorate of Special Programmes,
Ministry of Health and Social Services, WINDHOEK

OR

Hand deliver to the Global Fund Grant Human Resource Office, Room No 26. Directorate of Special Programmes (DSP): Florence Nightingale Street, Ministry of Health and Social Services, Windhoek.

No emailed and Faxed applications' will be accepted.

The Successful candidate to assume duty on 01 January 2021

THE FULL JOB DESCRIPTIONS WILL BE PROVIDED UPON REQUEST

CLOSING DATE FOR APPLICATIONS: 19 November 2020

Enquiries: Mr. Matthew Black @061 2965700 Or Mrs. Elise Jele @ 061 2032894

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APPENDIX H: PUBLIC CONSULTATION MEETING MINUTES AND ATTENDANCE REGISTER



Date: 01 October 2020

PUBLIC CONSULTATION MEETING MINUTES FOR THE:

**ENVIRONMENTAL SCOPING ASSESSMENT (ESA) FOR THE PROPOSED
CONSTRUCTION AND OPERATION OF NEW OXIDATION (SEWER) PONDS IN TSES,
//KARAS REGION**

1

Date: Thursday, 29 October 2020

Time: 11h00 (the starting time was 11h30 - to allow some of the public members to arrive)

Venue: Tses Village Council Community Hall, Tses in the //Karas Region

The Meeting was attended by twenty-two people (22) whose groups are as follow (**Please refer to the attached attendance register**)

- Environmental Assessment Practitioner from Serja Hydrogeo-Environmental Consultants) – **2 people**
- Representative from the Tses Village – **1 person**
- Ministry of Agriculture, Water & Land Reform ((MAWLR) - Department of Water Affairs (DWA)), **//Karas Region – 1 person**
- Members of the Tses Village Community – **18 people**

1. INTRODUCTION AND WELCOMING

Mr. Fredrika Shagama (the lead Environmental Assessment Practitioner / Consultant from Serja Hydrogeo-Environmental Consultants cc) opened the meeting by introducing herself, welcomed, and thanked everyone in attendance for making time to attend the meeting. She briefly explained to the attendees what the meeting was all about and why they were invited (referring to the Environmental Management Act No. 7 of 2007's 2012 EIA Regulations on Public Consultation).

COVID-19 Regulations Adherence: Before the attendance register was circulated, Ms. Shagama reminded the attendees of the ongoing COVID-19 Regulations and requested her team member (Mr. Eric Nambahu) to take Serja's hand sanitizer and go around the seats to sanitize everyone's hands before signing the attendance register. To ensure that the meeting, as a form of gathering complies with the COVID-19 Regulations, the chairs were set up in a way that social distancing between the people is observed and every attendee had a face mask on.



Ms. Shagama presented the meeting agenda. Since some of the meeting attendees were elders from the area who only spoke Damara-Nama and or Afrikaans Languages and to ensure transparency and effective communication in the meeting, Mr. Abraham Goliath from the Tses Village Council (and Tses resident) volunteered to translate for the elders (from English to Damara-Nama or Afrikaans) throughout the meeting. Mr. Goliath also provided translation to Ms. Shagama (from Damara-Nama/Afrikaans to English) to make sure that all comments and other inputs presented in both English and the two local languages were recorded in the minutes for consideration in the ESA Report.

The meeting attendance register was then circulated for the attendees to write down their names, contact details and sign so that they could be added to the existing list of interested and affected parties (I&APs) / Stakeholders and receive further information on the ESA process.

2. MEETING AGENDA AND PRESENTATION

Ms. Shagama presented the agenda of the meeting which included the following main points:

2.1 Explanation of what an ESA is, its Process and the Public Role in the Process

Ms. Shagama explained what an ESA is and why it is required for the proposed oxidation ponds (she explained that the ponds as a waste treatment facility is one of the listed that cannot be undertaken without an environmental clearance certificate (ECC) from the Environmental Commissioner.

2.2 Project Desirability and Brief Description of the Project

The project desirability was explained to the meeting attendees, that one of the main concerns and reasons to improve the current sewage management facility was that because it was also unsafe for the community, especially children and animals due to the fact that the ponds' area is not fenced off. The community quickly agreed and told the Consultant that a child drowned in the ponds in 2016.

A brief description of the project activities was presented to the attendees by Ms. Shagama. This included a brief presentation of the activities and resources anticipated for the construction and operational phases

2.3 Presentation of Potential Project Impacts

To ensure transparency and that the attendees understand both sides of the proposed project activities, Ms. Shagama also presented the potential pre-identified potential positive and negative environmental and social impacts.

2.4 Public Open Discussion (Interactive Session)



At the end of the presentation of the ESA process, project activities description and potential impacts, the floor was open whereby the meeting attendees were afforded an opportunity to ask questions and/or raise their concerns with regards to the proposed sewer ponds.

The Public Open Discussion was done in an interactive session form whereby the members of the public in the meeting could raise their concerns with the Environmental Consultants.

A few, but crucial points were raised by the public, and where possible, responses (to on-technical questions) were provided in the meeting by the Environmental Consultant (Ms. Shagama). Where questions or concerns were beyond Ms. Shagama's understanding, she noted these down to get the right and adequate answers from the Planning Engineers/ Proponent (Dunamis Consulting Engineers & Project Managers) and include them in the ESA Report. The issues and concerns raised in the meeting were recorded and presented in **Table 1** below.

Table 1: Issues, suggestions and comments received during Public Consultation Meeting in Tses on 29 October 2020

No.	Name of the speaker/commentor & Capacity	Comment/Issue/Suggestion	Response by Ms. Fredrika Shagama, 29 October 2020
1.	Ms. A. M Witbooi, (Community member / Tses resident)	<p>We are grateful for the opportunity for us to give our views and raise concerns with regards to the proposed activity.</p> <p>We have a big problem about the existing ponds, because of the odour that comes from there as well as mosquitoes associated with the ponds. This is a problem especially for us who live in the houses on that side of the Village (close to the ponds' area). We are in these COVID-19 times where it is said that the virus affects people with pre-existing health (underlying medical) conditions more than people with no underlying conditions, so we do not know what the odour from the ponds could be contributing to our health now with regards to COVID-19.</p>	<p>Well noted, Ms. Witbooi. We have taken note of your concern and we will incorporate it into the ESA Report. We will also present the issue to the Planning Engineers, that if there is anything that can still be done while they are still in the planning & design phase or what could be improved (technique-wise) during the construction and operation of the proposed new sewer ponds to minimise the odour nuisance.</p> <p><u>Response by Dunamis Engineers (Proponent) on 2 November 2020:</u> We Will incorporate new technology at the new sewer ponds. These technologies include odour caps to control the odour in the area.</p>
2.	Mr. Tobias Linus (Representative from the Ministry of Agriculture, Water and	<u>Comment:</u> The existing manhole (north of the trees nearby the ponds) – the pipe leading to the hole and goes to the ponds has a 45-degree bend. The 45 degree has been a problem in the past, that when the	We have taken note of this concern and will present it to the Planning Engineers who will then need to consult and agree with the Tses Village Council to incorporate the suggested change into



No.	Name of the speaker/commentor & Capacity	Comment/Issue/Suggestion	Response by Ms. Fredrika Shagama, 29 October 2020
	Land Reform for the //Karas Region)	<p>community members dispose of things like toilet papers and other solid insoluble waste into the manhole, it used to overflow due to blockage caused by these papers (solid waste blocking and or delaying the waste flow to the ponds).</p> <p>When the manhole overflows, it does so towards the river (which feeds the Fish River too) and in the direction of existing NamWater groundwater supply boreholes which could potential pollute the borehole water.</p> <p>Suggestion: The pipeline bend needs manoeuvring (to straighten the bend so that the wastewater can flow with ease to the ponds). The diameter of the hole also needs to be revised as well.</p>	<p>the current planning and design of the new ponds, if possible or what can be done.</p> <p>Response by Dunamis Engineers (Proponent) on 2 November 2020: We Will incorporate into our new design.</p> <p>Further response by the Proponent (on 2 November 2020): We will investigate the size of the bend and pipe. If need be, we will incorporate another manhole in our designs, for better flow of the effluent.</p>
3.	Mr Abraham Goliath (Chairperson of the Tses Village Council)	Where will the new ponds be located?	The ponds will be located at the same area where the current (old) ponds are. The new ponds, probably taking up some of the unused space south and or west of the current of the ponds but not towards the existing homestead that are neighbours to the ponds' area.
4.		You also mentioned about the potential impact of sewer leaching into the ground to possibly pollute groundwater resources, how will this be mitigated?	The new ponds will be lined to avoid the situation that is possibly may have been occurring with the old (current) ponds already (sewer infiltrating into the ground over the years).
5.	Mr. Bradley Juhrs (Community member / Tses resident)	There is a very high unemployment rate here in Tses, and based on the information you provided, it says that the construction will only employ 15 people. That number is too	The number provided by the Engineers (proponent) has probably been estimated based on the number of working opportunities and human



No.	Name of the speaker/commentor & Capacity	Comment/Issue/Suggestion	Response by Ms. Fredrika Shagama, 29 October 2020
		low. Can it not be reconsidered to accommodate more people?	<p>resources required for that work. However, the number can be decreased or increased once the magnitude of site work is established and finalized later. The exact number of people required for the work will be finalized by the Appointed Construction Contractor later (after the clearance has been issued and when they are ready for construction works). The recruitment will probably be communicated to the community by the Contractor through the Village Council or other suitable existing channels.</p> <p>Furthermore, in accordance with the Labour Act, in the Environmental Management Plan (EMP) we emphasize on the preference of locals for any work type that they are qualified for and capable of doing over outsiders.</p>
6.	Ms Katrina Garises (Community member / Tses resident)	The odour (smell) from the ponds is a concern. Why can it not be relocated far from people?	The relocation would be a good idea. However, there are lot of factors that need to be put into consideration. These factors include the new biophysical and social environment impacts when a completely new site area for such type of facilities is established. The current site proposed for the new ponds would be ideal to restrict the cumulative (old and new) impacts to the same area with existing similar land use (existence of the dilapidated ponds) and try to better mitigate the impacts going forward.
7.	Mr Tobias Linus (Representative from the Ministry of	This is a suggestion and addition to the ponds' related odour and mosquito issues raised by Ms. Witbooi earlier and now Ms.	Well noted.



No.	Name of the speaker/commentor & Capacity	Comment/Issue/Suggestion	Response by Ms. Fredrika Shagama, 29 October 2020
	Agriculture, Water and Land Reform for the //Karas Region)	Garises. Perhaps the Village Council should consider rezoning the area around the ponds to a certain extent so that there will be no future houses built further towards the ponds' area or within a demarcated radius. Alternatively, they (Village Council) should consider relocating the affected community (that is already in the area close to the ponds) to move them elsewhere.	

There were no further questions or comments/concerns.

Ms. Shagama concluded the meeting and thanked the attendees for their participation. She also informed them that the draft environmental assessment report will be compiled, shared electronically with those who provided email addresses. For those without email addresses, hard copies of the draft ESA Report will be made available at the Tses Village Council Office once it is ready for circulation. A notice of the availability of the report will be pasted at the Village Council and short messages sent to all registered attendees in the attendance register to notify them of the draft Report' availability.

The meeting was adjourned at 12h40.

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Sustainable Plus Tomorrow's Usage Assurance

CC/2020/0010007



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P. O. Box 27318, Windhoek
Namibia

PUBLIC CONSULTATION MEETING ATTENDANCE REGISTER

ENVIRONMENTAL SCOPING ASSESSMENT (ESA) FOR THE PROPOSED CONSTRUCTION AND OPERATION OF OXIDATION (SEWER) PONDS IN TSES, //KARAS REGION

Project Proponent: Dunamis Consulting Engineers & Project Managers (Pty) Ltd

Date & Time: 29 October 2020, 11h00

Venue: Tses Village Council Community Hall in Tses, //Karas Region

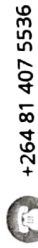
No.	Name & Surname	Institution / Capacity	Contact number	Email address	Signature
1.	Fredrika Shagama	Serja HGE Consultants	0814075536	serja.consultants@gmail.com	<i>[Signature]</i>
2	Eric Nambaha	Serja HGE Consultants	0812621991	serja.consultants@gmail.com	<i>[Signature]</i>
3	Jacobus Koopman		0813378400		<i>[Signature]</i>
4.	Annera Molinga		0812594048		<i>[Signature]</i>
5	Bradley Juhis		0818290024		<i>[Signature]</i>
6.	Katrina Corises		0814438191		<i>[Signature]</i>
7.	Lydia Eiyas		0816021155		<i>[Signature]</i>

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No.	Name & Surname	Institution / Capacity	Contact number	Email address	Signature
8.	Andriess, P. Tosselmann		0816033730		
9.	A.M. Witbooi		0814057268		
10.	Candra, J. Berendze		0813406208		
11.	Irene J. Cloete		0814215514	Irene.cloete98@gmail.com	
12.	Maria m Frederic		0812594547	emotije.frederika@gmail.com	
13.	Sarah Bees		0812096857		
14.	Ricardo Apal		0816073346		
15.	Veronica Fredericks		0812335751		
16.	Fredrika Smith		0817113944		
17.	Abraham Kaffer		0813778874		
18.	Wilhelmina Shivule		0812058867		
19.	Silfriede Hanse		0818784749		
20.	Konnye H. Konye		0817578550		
21.	Tshias Liams	DWA Basin Support of Fish	0817393062	ofbico@freemint.com	
22.	Abraham Gokweh	Tses Village Council	0816673663		
23.					
24.					

**APPENDIX I: ISSUES AND RESPONSE TRAIL DOCUMENT
(ISSUES/SUGGESTION BY I&APS AND RESPONSE)**

APPENDIX I: ISSUES/CONCERN/SUGGESTION & RESPONSE TRAIL DOCUMENT

ENVIRONMENTAL SCOPING ASSESSMENT (ESA) FOR THE PROPOSED CONSTRUCTION AND OPERATION OF NEW OXIDATION (SEWER) PONDS IN TSES, //KARAS REGION

No.	Name of the speaker/commentor & Capacity	Comment/Issue/Suggestion	Response by Ms. Fredrika Shagama, Serja Consultant
1.	Mr Matheus Hambabi, 21 October 2020, Telephonically	<p>Comment - The manhole (north of the trees nearby the ponds) – the pipe leading to the manhole and goes to the ponds has a 45-degree bend. The 45 degree has been a problem in the past, that when the community members disposed things like toilet papers into the manhole, it used to overflow due to blockage caused by these papers.</p> <p>When the manhole overflows, it does so towards the river (which feeds the Fisch River too) and in the direction of existing groundwater supply boreholes which could potential pollute the borehole water.</p> <p>Suggestion: The pipeline bend needs manoeuvring (to straighten the bend so that the wastewater can flow with ease to the ponds)</p>	<p>Well noted. The concern has been noted, presented to the Proponent. The Proponent stated that they would:</p> <ul style="list-style-type: none"> • Consult and agree with the Tses Village Council to incorporate the suggested change into the current planning and design of the new ponds, if possible or explore other ways to solve the issue. • Investigate the size of the bend and pipe and incorporate another manhole in the new ponds' designs, for better flow of the effluent. This statement has been incorporated this into the EA Report's mitigation measures for groundwater pollution – section 7.3.2 (Table 12 on page 66)

No.	Name of the speaker/commentor & Capacity	Comment/Issue/Suggestion	Response by Ms. Fredrika Shagama, Serja Consultant
			and added as a recommendation in the EMP (for planning & design phase).
2.	Ms. A. M Witbooi (Community member / Tses resident), 29 October 202, in the public meeting	The odour that comes from there as well as mosquitoes associated with the existing ponds is a concern to us residents with houses that side of the Village.	A new technology will be incorporated at the new sewer ponds to control the odour in the area. These technologies include odour caps. This has been incorporated under the odour impact mitigation measures (section 7.4.7, page 71) and in the EMP.
3.	Mr. Tobias Linus (Representative from the Ministry of Agriculture, Water and Land Reform for the //Karas Region), 29 October 2020 in the public meeting	<p>Comment: The pipe leading to the hole and then to the ponds has a 45-degree bend. The 45 degree has been a problem in the past, that when the community members dispose of things like toilet papers and other solid insoluble waste into the manhole, it used to overflow due to blockage caused by these papers (solid waste blocking and or delaying the waste flow to the ponds). When the manhole overflows, it does so towards the river (which feeds the Fish River too) and in the direction of existing NamWater groundwater supply boreholes which could potential pollute the borehole water.</p> <p>Suggestion: The pipeline bend needs manoeuvring (to straighten the bend so that the wastewater can flow with ease to the ponds). The diameter of the hole also needs to be revised as well.</p>	Well noted. The same response provided under Point 1 (Response to Mr. Hambabi) applies to your concern.

No.	Name of the speaker/commentor & Capacity	Comment/Issue/Suggestion	Response by Ms. Fredrika Shagama, Serja Consultant
4.	Mr Abraham Goliath (Chairperson of the Tses Village Council), 29 October 2020 in the public meeting	There was a mentioned about the potential impact of sewer leaching into the ground to possibly pollute groundwater resources. How will this be mitigated?	<p>The new ponds will be lined to avoid the situation that is possibly may have been occurring with the old (current) ponds already (sewer infiltrating into the ground over the years). The impact has been described and assessed recommendation add line the ponds has also been added to the mitigation measures (section 7.4.3.2 – page 66 to 67) and in the EMP.</p> <p>An independent Groundwater Impact Assessment with a primary focus on pollution is required in future for the Tses Village (Tses Village Council responsibility or in collaboration with NamWater). This will be aimed at establishing the extent of pollution that may already been ongoing primarily because of the existing unlined and dilapidated ponds</p>
5.	Mr. Bradley Juhrs (Community member /	There is a very high unemployment rate here in Tses, and based on the information you provided, it says that the construction will only employ 15 people. That number is too low. Can it not be reconsidered to accommodate more people?	The number provided by the Engineers (Proponent) has probably been estimated based on the number of working opportunities and human resources required for that work. However, the number can be decreased or increased once

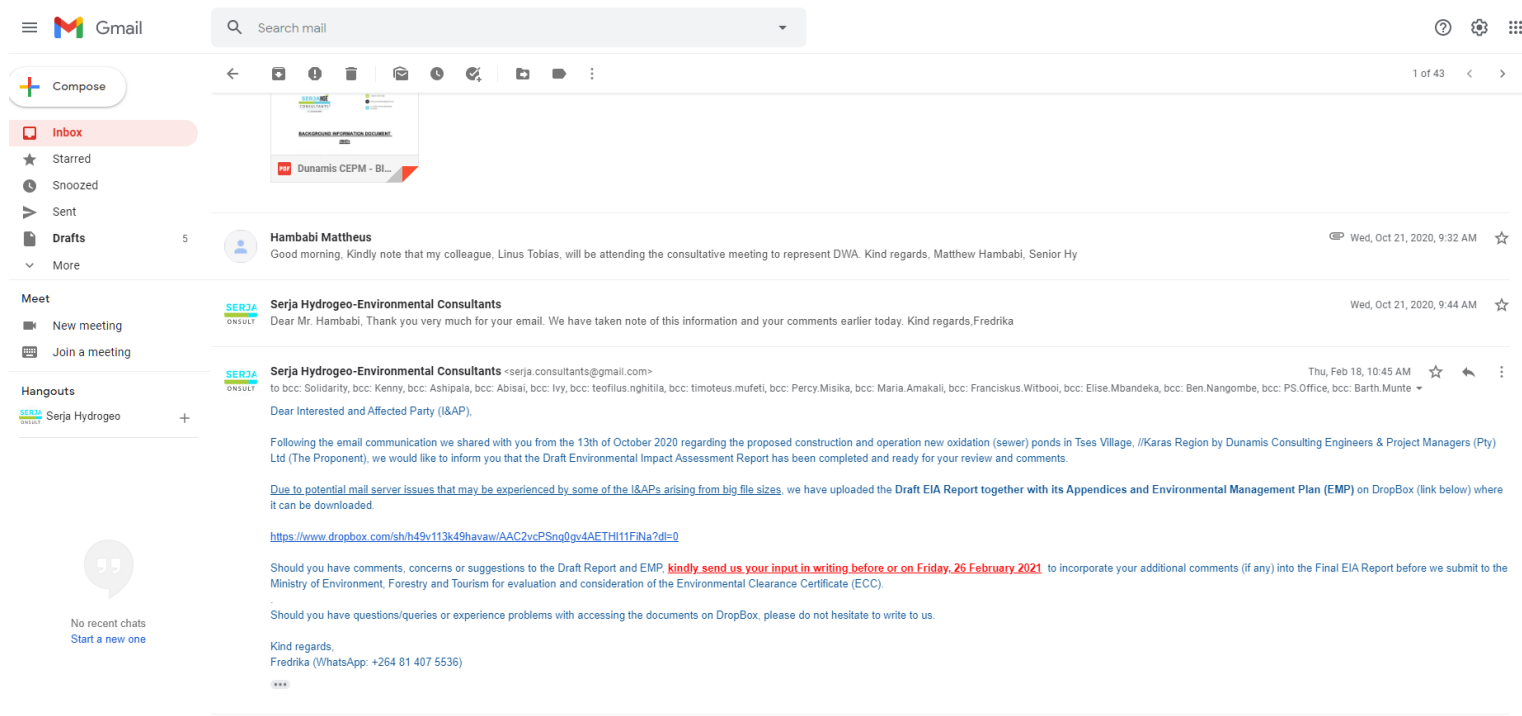
No.	Name of the speaker/commentor & Capacity	Comment/Issue/Suggestion	Response by Ms. Fredrika Shagama, Serja Consultant
	Tses resident), 29 October 2020 in the public meeting		<p>the magnitude of site work is established and finalized later. Currently, it is estimated that 15 people will be required for the construction works. However, exact number of people required for the work will be finalized by the Appointed Construction Contractor later (after the clearance has been issued and when they are ready for construction works). The recruitment will probably be communicated to the community by the Contractor through the Village Council or other suitable existing channels.</p> <p>Furthermore, in accordance with the Labour Act, in the Environmental Management Plan (EMP) we emphasize on the preference of locals over outsiders for any work type that they are qualified for and capable of doing.</p>
6.	Ms Katrina Garises (Community member / Tses resident), 29 October 2020 in the public meeting	The odour (smell) from the ponds is a concern. Why can it not be relocated far from people?	The relocation would be a good idea. However, there are lot of factors that need to be considered. These factors include the new biophysical and social environment impacts when a completely new site area for such type of facilities is established. The current site proposed for the new ponds

No.	Name of the speaker/commentor & Capacity	Comment/Issue/Suggestion	Response by Ms. Fredrika Shagama, Serja Consultant
			would be ideal to restrict the cumulative (old and new) impacts to the same area with existing similar land use (existence of the dilapidated ponds) and try to better mitigate the impacts going forward.
7.	Mr. Tobias Linus (Representative from the Ministry of Agriculture, Water and Land Reform for the //Karas Region), 29 October 2020 in the public meeting	This is a suggestion and addition to the ponds' related odour and mosquito issues raised by Ms. Witbooi earlier and now Ms. Garises. Perhaps the Village Council should consider rezoning the area around the ponds to a certain extent so that there will be no future houses built further towards the ponds' area or within a demarcated radius. Alternatively, they (Village Council) should consider relocating the affected community (that is already in the area close to the ponds) to move them elsewhere.	Well noted. Suggestion has been incorporated into the mitigation measures for odour under section 7.4.7 (Table 17 – last bullet point) Tses Village Council to reconsider regarding future house establishment on that side of the Village (where the ponds are).
8.	Ruweide Schrywer Julius (Process Engineer at AQUA Services & Engineering), 28 October 2020 and 27 November 2020	-Request to be registered as I&AP to comment on the proposed project (ponds). -Proposal for an alternative to proposed oxidation ponds at Tses. Aqua Services needed the number of people to be serviced by the oxidations ponds prior to presenting an alternative wastewater treatment method and if there were any considerations for future expansion	Well noted and AQUA Services has been registered as I&AP. The BID was shared with them on 28 October 2020 The proposal email and attachment thereof comprising the technical proposal to the alternative method (trickling filter), Code of Practice: Volume 6 (Wastewater Use) and method

No.	Name of the speaker/commentor & Capacity	Comment/Issue/Suggestion	Response by Ms. Fredrika Shagama, Serja Consultant
			<p>design/drawings has been well received and forwarded to the Proponent for consideration.</p> <p>The Proponent informed Serja that they will be holding a technical meeting with AQUA Services to discuss the alternative wastewater treatment method and provide feedback.</p> <p>Based on the meeting with AQUA Services and the Proponent and with environmental, economic, and technical aspects, consideration of the oxidation ponds against Trickling Filter system, the oxidation ponds are preferred technology for Tses – refer to Project Alternative Chapter (section 3.1.3 – Table 2).</p>

**APPENDIX J: PROOF OF DRAFT EIA REPORT CIRCULATION,
COMMENTS & RESPONSE TRAIL DOCUMENT**

APPENDIX J: DRAFT EIA REPORT CIRCULATION EMAIL, AND COMMENTS & RESPONSE TRAIL DOCUMENT: ENVIRONMENTAL ASSESSMENT (EA) FOR THE PROPOSED CONSTRUCTION AND OPERATION OF NEW OXIDATION (SEWER) PONDS IN TSES, //KARAS REGION



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Hambabi Matthues
Wed, Oct 21, 2020, 9:32 AM

Good morning, Kindly note that my colleague, Linus Tobias, will be attending the consultative meeting to represent DWA. Kind regards, Matthew Hambabi, Senior Hy

Serja Hydrogeo-Environmental Consultants
Wed, Oct 21, 2020, 9:44 AM

Dear Mr. Hambabi, Thank you very much for your email. We have taken note of this information and your comments earlier today. Kind regards, Fredrika

Serja Hydrogeo-Environmental Consultants <serja.consultants@gmail.com>
Thu, Feb 18, 10:45 AM

to bcc: Solidarity, bcc: Kenny, bcc: Ashipala, bcc: Abisai, bcc: Ivy, bcc: teofilus.nghtila, bcc: timoteus.mufeti, bcc: Percy.Misika, bcc: Maria.Amakali, bcc: Franciskus.Witbool, bcc: Elise.Mbandeka, bcc: Ben.Nangombe, bcc: PS.Office, bcc: Barth.Munte

Dear Interested and Affected Party (I&AP),

Following the email communication we shared with you from the 13th of October 2020 regarding the proposed construction and operation new oxidation (sewer) ponds in Tses Village, //Karas Region by Dunamis Consulting Engineers & Project Managers (Pty) Ltd (The Proponent), we would like to inform you that the Draft Environmental Impact Assessment Report has been completed and ready for your review and comments.

Due to potential mail server issues that may be experienced by some of the I&APs arising from big file sizes, we have uploaded the Draft EIA Report together with its Appendices and Environmental Management Plan (EMP) on DropBox (link below) where it can be downloaded.

<https://www.dropbox.com/sh/h49y113k49havaw/AAC2vcPSng0qv4AETH11FINa?dl=0>

Should you have comments, concerns or suggestions to the Draft Report and EMP, **kindly send us your input in writing before or on Friday, 26 February 2021** to incorporate your additional comments (if any) into the Final EIA Report before we submit to the Ministry of Environment, Forestry and Tourism for evaluation and consideration of the Environmental Clearance Certificate (ECC).

Should you have questions/queries or experience problems with accessing the documents on DropBox, please do not hesitate to write to us.

Kind regards,
Fredrika (WhatsApp: +264 81 407 5536)

26 February 2021

TO: SERJA HGE Environmental Consultants cc
P.O. Box 27318
Windhoek
Namibia

C/O: Dunamis Consulting Engineers & Project Managers (Pty) Ltd
P.O. Box 3757
Windhoek
Namibia

MEFT Application No.: APP-001998

Our Ref: 2101.003.TSE

RESPONSE TO DRAFT EIA REPORT FOR THE PROPOSED CONSTRUCTION AND OPERATION OF OXIDATION (SEWER) PONDS IN THE TSES VILLAGE, //KARAS REGION: AN APPLICATION FOR THE ENVIRONMENTAL CLEARANCE CERTIFICATE (ECC)

Dear Ms. Fredrika N. Shagama,

The draft EIA report recommending the implementation of oxidation ponds at Tses Village has reference. We would like to raise our serious concerns with the findings of the report as follows:

1. Section 3.1.4: Cost Implications [page 19] bases the conclusion that the cost of constructing new oxidation ponds will be less than alternative wastewater treatment solutions on a literature source, but offers no further detail with regard to actual cost comparisons done in the local context. We are of the opinion that it is not in fact the case that the construction of ponds will cost less than the construction of alternative treatment systems when all applicable factors are taken into consideration, and strongly recommend that more extensive cost comparisons are carried out in order to validate this conclusion.
2. The report alternately refers to a planned oxidation pond making use of a final evaporation pond, and treated effluent discharge from the pond that will be treated to the applicable General Standard. It is well known that effluent produced by oxidation ponds cannot typically achieve the applicable General Standard parameters due to process limitations. The DWAF Guidelines (Code of Practice: Vol 2, 2008 - Page 4

of 24) state that “Generally, open ponds can not produce a final effluent complying with the currently applicable Namibian standards for effluent discharge, viz the General Standard of Act No. 24 of 2004. Therefore, final effluent produced by a pond system will not be allowed for discharge into the environment.” This would mean that the planned ponds must be sufficiently sized to achieve evaporation of the entire inflow load in order to comply with the Guidelines. It is not clear from the report whether this is the case, and we strongly disagree with this approach, as properly treated wastewater can be re-used successfully for numerous applications that have the potential to provide value to the local community. We believe that, in water-scarce regions such as Tses, every effort should be made to make use of the available water resources, and selecting to evaporate this entire volume of water would constitute an unconscionable waste of this valuable resource. Our view is also supported by the Guidelines, which state that “Since water is a scarce commodity in Namibia, reuse thereof is strongly encouraged.” DWAF Guidelines (Code of Practice: Vol 2, 2008).

3. Section 2.1.1 of the report states that “...ponds’ facility is designed to be at least 150 m from residential houses...” whereas Section 4.1 of the CoP: Vol 2 states “...ponds may not be built closer than 500 m from the nearest residential area and where anaerobic ponds are included, this distance should ideally be increased to 1.0 km”. The location of the ponds may have to be adjusted in order to meet this requirement.
4. While it can be expected that the normal operating costs of a treatment plant such as trickling filters will generally be higher than evaporation ponds, it should be kept in mind that the cleaning and reconditioning of such ponds (which must be done once the solids build-up has decreased their effective volume to such an extent that they are no longer able to achieve their design retention time) carries extensive associated costs as well as potentially expensive repairs to the liner that is easily damaged during such operations. These costs must also be considered in a life-cycle cost analysis to determine the actual cost comparison between such systems. Furthermore, the ability to re-use properly treated effluent for economically beneficial purposes, and the associated employment creation effects, can successfully offset

the operating costs of an alternative treatment system, while at the same time greatly reducing the environmental footprint of the community as a whole.

It is our opinion that treatment systems such as the trickling filter, if properly designed to minimize operating and maintenance costs, can be successfully deployed even in communities where technical skills are in limited supply, meaning that they are not significantly more difficult to operate and maintain than evaporation ponds. We have successfully implemented in excess of 100 such systems at various establishments throughout Namibia, and the concept has been proven to be an effective alternative to the pond system.

Yours faithfully

For Aqua Services & Engineering (Pty) Ltd



Ruweide Julius
Process Engineer



Alex Busch
General Manager: Projects

No.	Name of the speaker/commentor	Comment	Response by Ms. Fredrika Shagama, Serja Consultant
1.	Aqua Services & Engineering, 26 February 2021, (via email)	Section 3.1.4: Cost Implications [page 19] bases the conclusion that the cost of constructing new oxidation ponds will be less than alternative wastewater treatment solutions on a literature source but offers no further detail regarding actual cost comparisons done in the local context. We are of the opinion that it is not in fact the case that the construction of ponds will cost less than the construction of alternative treatment systems when all applicable factors are taken into consideration, and strongly recommend that more extensive cost comparisons are carried out to validate this conclusion	<p>Apart from the reference made to the general cost implications of other sewage treatment methods, the cost of alternative local methods such as trickling filter system has been considered and confirmed by the Proponent that this method (trickling filter) is expensive compared to oxidations ponds. Not only from a construction perspective but also maintenance in the long-term. A small Village such as Tses may not be able to sustain such other costly systems in a long run compared to the oxidation ponds which they are familiar with and with improvements to be made on the new ponds, this will be in the Village's advantage.</p> <p>Furthermore, since no wastewater treatment is 100% perfect, according to the Water Research Commission: <i>WASTEWATER TREATMENT TECHNOLOGIES – A BASIC GUIDE</i> (2016), the ponds' system is extremely flexible. The pond effluent can be treated to meet irrigation standards for land applications (as intended) and future considerations can also be made to couple the pond system with other advanced treatment technologies to help in meeting discharge Standards for other treated wastewater applications such as into the environment or for re-use.</p>
2.		The report alternately refers to a planned oxidation pond making use of a final evaporation pond and treated effluent discharge from the pond that will be treated to the applicable General Standard. It is well known that	The 102 x 116 and 1.3 m deep evaporation pond has been designed to fulfil the site requirement to treat the waste to the

No.	Name of the speaker/commentor	Comment	Response by Ms. Fredrika Shagama, Serja Consultant
		<p>effluent produced by oxidation ponds cannot typically achieve the applicable General Standard parameters due to process limitations. The DWAF Guidelines (Code of Practice: Vol 2, 2008 - Page 4 of 24) state that "Generally, open ponds cannot produce a final effluent complying with the currently applicable Namibian standards for effluent discharge, viz the General Standard of Act No. 24 of 2004. Therefore, final effluent produced by a pond system will not be allowed for discharge into the environment." This would mean that the planned ponds must be sufficiently sized to achieve evaporation of the entire inflow load to comply with the Guidelines. It is not clear from the report whether this is the case, and we strongly disagree with this approach, as properly treated wastewater can be re-used successfully for numerous applications that have the potential to provide value to the local community. We believe that, in water scarce regions such as Tses, every effort should be made to make use of the available water resources and selecting to evaporate this entire volume of water would constitute an unconscionable waste of this valuable resource. Our view is also supported by the Guidelines, which state that "Since water is a scarce commodity in Namibia, reuse thereof is strongly encouraged." DWAF Guidelines (Code of Practice: Vol 2, 2008).</p>	<p>desired objectives and to its intended use and if necessary, other uses in the environment. Please refer to the system design under section 2.2.1. The ponds' site is also sufficient to cater for the evaporation pond and associated facilities to ensure that the objectives of treating the wastewater are met and compliance with the Standards and Code of Practice.</p> <p>Water re-use is a very valid point and as per the Guidelines. However, given to some factors like long-term cost implications, size of the population served, site conditions, etc., not all wastewater treatment systems may be able to achieve that if the processes and technology required are not sustainable for that area. However, coupling the pond system with other methods in future may be considered, if found to be necessary and based on the performance of the ponds over time.</p>
3.		<p>Section 2.1.1 of the report states that "...ponds' facility is designed to be at least 150 m from residential houses..." whereas Section 4.1 of the CoP: Vol 2 states "...ponds may not be built closer than 500 m from the nearest residential area and where anaerobic ponds are included, this distance should ideally be increased to 1.0 km". The location of the ponds may have to be adjusted to meet this requirement.</p>	<p>That statement in section 2.1.1 is based on a general description and locality of ponds and not the case with the Tses Village ponds (distance wise). However, to clarify this, a new section (2.2.1) was added. The distance of the new ponds from the nearest houses will be more than 500 m. The closest houses to the current/existing ponds are about 200 m (the eastern active pond). The current short distance between the two properties could be explained by the fact the existing ponds</p>

No.	Name of the speaker/commentor	Comment	Response by Ms. Fredrika Shagama, Serja Consultant
			<p>were constructed years ago before the promulgation of the Code of Practice and Guidelines and the houses may be constructed after the ponds have already been established. This will be corrected by ensuring that eastern pond (referred to as Pond 1 (P1) in the EIA Report) is demolished and that the new ponds and associated structures are established further from the houses.</p>
4.		<p>While it can be expected that the normal operating costs of a treatment plant such as trickling filters will generally be higher than evaporation ponds, it should be kept in mind that the cleaning and reconditioning of such ponds (which must be done once the solids build-up has decreased their effective volume to such an extent that they are no longer able to achieve their design retention time) carries extensive associated costs as well as potentially expensive repairs to the liner that is easily damaged during such operations. These costs must also be considered in a life-cycle cost analysis to determine the actual cost comparison between such systems. Furthermore, the ability to re-use properly treated effluent for economically beneficial purposes, and the associated employment creation effects, can successfully offset the operating costs of an alternative treatment system, while at the same time greatly reducing the environmental footprint of the community.</p>	<p>Well Noted. Provision for maintenance cost and expertise has been incorporated and recommended into the EMP (under the Planning and Design in Table 3).</p>
5.		<p>Suggestion: It is our opinion that treatment systems such as the trickling filter, if properly designed to minimize operating and maintenance costs, can be successfully deployed even in communities where technical skills are in limited supply, meaning that they are not significantly more difficult to operate and maintain than evaporation ponds. We have successfully implemented more than 100 such systems at various establishments throughout Namibia, and the concept has been proven to be an effective alternative to the pond system</p>	<p>Well noted.</p>