Eskom	**SoW**	**Camden Power Station**

Title: **Ash water Return Dam Compartment 1&2 Dredging**

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Disclosure Classification:	**Controlled Disclosure**

File name: Hydroseeding of the ADF walls

Content

List of Figures

1. Introduction

This document contains guidelines and technical information for Camden Power Station's Ash Water Return Dams compartment1 & 2 desilting project.

2. Supporting Clauses

All construction works to be carried out on the Camden Power Station's Ash Water Return Dams compartment1&2 desilting project should be in accordance with SANS 1200G

2.1 Scope

2.1.1 Purpose

The purpose of this document is to provide guidance of the desilting process of the Camden Power Station's Ash Water Return Dams compartment 1 & 2.

2.1.2 Applicability

This document shall be applicable at Camden Power station.

2.1.3 Effective date

This document will be effective after it has been signed for Authorisation.

2.2 Normative/Informative References

Parties using this document shall apply the most recent edition of the documents listed in the following paragraphs.

2.2.1 Normative

[1] ISO 9001 Quality Management Systems

[2] OHSACT

2.2.2 Informative

[1] SANS 1200 G - Standardized specification for civil engineering construction

[2] SANS 1200 C - Site clearance

[3] SANS 1200 DE- Small earth dams

[4] SANS 1200 AD - General (Small dams)

2.3 Definitions

N/A

2.3.1 Document:

N/A

2.4 Abbreviations

Abbreviation	Explanation
CPS	Camden Power Station
ISO	International Organization for Standardization
OSH Act	Occupational Health and Safety Act
SANS	South African National Standards
AWRD	Ash Water Return Dam

2.5 Roles and Responsibilities

- Common Plant Engineering: Scope of Work development
- Contractor: Scope of Work Execution
- Environmental Department – Environmental compliance advise.

2.6 Process for Monitoring

All construction activities will be monitored by Energy department.

2.7 Related/Supporting Documents

N/A

3. Scope of Work

3.1.1 Site Access

Camden is located approximately 15km from Ermelo, Mpumalanga, along the N2 road. The old ash dam is outside and north-west of the station. The AWRD`s can be accessed via the gravel road leading from Oak Road just before the station's main entrance.

3.1.2 Current condition

Currently, the two compartments are silted-up with ash which reduces its original design capacity. The maximum operating capacity (70%) for compartment 1&2 is 269500 m^3. The volume of silt to be removed from each compartment is estimated to be 10 000 m^3. Therefore, the total volume of sludge to be removed from both compartments is estimated to be 20 000m^3. It should be noted that the final actual quantities of the silt removed from both compartments will be re-measured during execution. The technical information applicable to the desilting of AWRD compartment 1&2 incorporates the following scope:

- High pressure cleaning of the silt on the AWRD compartment walls.
- Agitating of the sludge inside the dam floor and the ramp into the compartment using the skid-steer to allow easy flow.
- Desilt compartment 2 by vacuuming the sludge using high pressure vacuum truck
- Hauling and disposal of the sludge at the new ash dam which is approved by the client as the dump site.

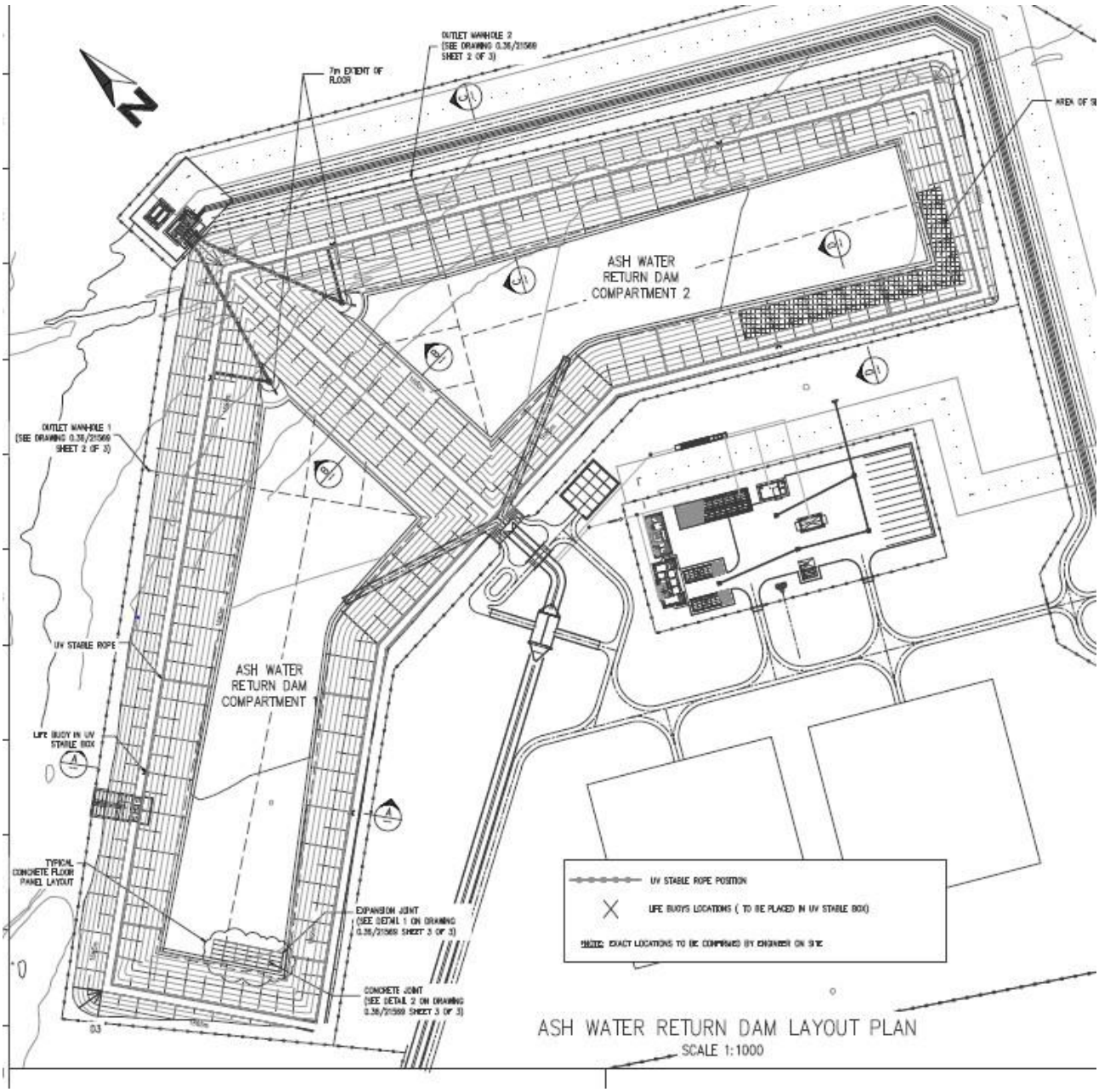

Figure1. Ash Water Return Dam Compartment 1&2 Layout Plan

4. Acceptance

This document has been accepted by

Name and Surname	Designation
Doctor Nkosi	Civil Engineer

5. Revisions

Date	Rev.	Compiler	Remarks
13/10/2023	01	N. Shozi	The original SoW

6. Development Team

The following people were involved in the development of this document:

- Doctor Nkosi

7. Acknowledgements

N/A