

Recommendations for Storm Water Management

for

EB SCHULENBURG CC

Prepared by:

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1. DETAILED DESCRIPTION OF PROPOSED PROJECT

EB Schulenburg CC is construction of 8 poultry houses on Portion 9 & 10 of Farm Hakboslaagte 77 IP, situated in Lichtenburg District within Ditsobotla Local Municipality area. The proposed project triggers a Basic Assessment for certain listed activities under Listing 1 of NEMA (National Environmental Management Act, 1998). Bucandi Environmental Solutions (Bucandi) was requested by EB Schulenburg CC to conduct a Basic Assessment as part of the application for environmental authorisation.

The activity will entail the construction of 8 environmentally controlled chicken broiler houses (135m x 15m each). Each house will have the capacity for 45 000 broilers. The entire site will be able to house up to 360 000 broiler chicks. The farm boundary is 129.47ha and the development site boundary is 59 661.59m².

The project will entail the following:

- Earthworks and clearing of vegetation (agricultural lands) on the site for 8 poultry houses.
- Construction of 8 environmentally controlled chicken houses (135m x 15m) with capacity for 45 000 birds per house, totalling approximately 360 000 birds.
- A silo and water tank will be erected next to each house.
- Powerlines will be connected to each house from the current Eskom point.
- Pipelines will be connected to each house from the borehole at the existing farm infrastructure.

The site will be fenced off with a 1.8m high electric fence.

Approved Engineer and Design drawings have not been finalised for the proposed development. These drawings will stipulate the location and of drainage ditches and any other storm water related infrastructure. This report is therefore limited to making recommendation regarding the management and mitigation measures to be incorporated in stormwater control in order to prevent pollution of surface water.

2. OBJECTIVES OF STORM WATER CONTROL

- a) To reduce the potential impact on surface water run-off.
- b) To ensure that the surface water run-off quality does not impact on the area and receiving environment.
- c) To reduce erosion and contamination of surface water by effective storm water control.

3. STORM WATER CONTROL MANAGEMENT MEASURES

- a) Before any construction takes place the proposed area for the development should be pegged out. All construction activities should take place within these areas in order to reduce the footprint of the proposed activity and therefore the potential impact on surface water run-off.
 - b) Storm water related infrastructure should be inspected on a regular basis in order to ensure that the structures are functional and do not cause soil erosion.
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c) Effective storm water measures should be implemented to minimise soil erosion, such as:

- The storm water drainage system must be maintained (free-draining) and not contaminated by other waste sources. Storm water must be kept separate from the sewage or any other effluent system.
 - Storm water must be diverted away from bird holding areas, chemical storage areas and wastewater treatment areas.
 - Erosion prevention structures or vegetation should be placed at concentration points to reduce water velocity within the drainage system.
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