

Recommendations for Storm Water Management

for

VAL GRAIN CO (PTY) LTD

GROOTPAN

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1. DETAILED DESCRIPTION OF PROPOSED PROJECT

Val Grain Co is proposing the construction of 12 environmentally controlled poultry houses with the capacity for 50 000 chickens per house on Portion 3 of the farm Grootpan 591 IR situated near Val within Lekwa Local Municipality area. 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.
 - 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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