

Hi Katherine,

Further to the below, we note that the EA have objected to the application on the grounds that insufficient information has been provided to demonstrate that the risks of pollution to surface water quality have been appropriately managed.

In response to the EA, we would like to note that a GNSB6 model GEOceptor Separator has been installed on-site to remove any risk of pollution posed.

Please refer the below specifications for the GNSB6 model GEOceptor Separator and the attached documents listed below for further details.

- Drainage Details Plan (1387_T_REV0-1)
- GEOCEPTOR PRODUCT BROCHURE
- GEOCEPTOR PRODUCT DRAWING

GNSB6 model GEOceptor Separator

1. General

The works shall include the supply and installation of a GEOceptor Separator for surface water treatment. The system shall be designed and installed in accordance with the manufacturer's recommendations.

2. Design Criteria

- The separator system shall be selected to accommodate all foreseeable eventualities, including maximum contributing catchment areas.
- The system shall be future proofed by reference to the largest available model, the **GNSB40**, which has a design capacity of:
 - Catchment area: **22,220 m²**
 - Peak flow: **400 L/s**

3. Specified Unit

For this project, the required installation shall comprise the **GNSB6 model GEOceptor Separator**, which is designed to accommodate a maximum flow rate of **6 L/s**.

4. Installation Requirements

- **Chamber Construction:**
The separator unit shall be installed within a suitably sized, watertight, reinforced concrete chamber, as per the manufacturer's requirements.
- **Concrete Biscuit:**
A high-strength concrete biscuit (foundation) shall be cast to support the separator base, ensuring a level and stable installation platform.
- **Access Cover and Frame:**
The chamber shall be provided with a heavy-duty, D400 (EN124) cover and frame suitable for carriageway loading, complete with a clear opening sized to allow safe access for inspection and maintenance.
- **Access Chamber:**
A full access chamber shall be constructed above the separator to allow for inspection, maintenance, and removal of captured material. Ladders, steps, or lifting points shall be incorporated where necessary to provide safe access.
- 1.Excavate to required level to underside of concrete base installing earthwork support as per

temporary works design (subject to temporary works design the Geoceptor can be installed inside a standard manhole box).

- 2. Construct concrete base as per detailed design and leave 24hrs.
- 3. Lower Geoceptor into place using an excavator and lifting straps.
- 4. Connect all incoming pipework to the Geoceptor ensuring that relevant rocker pipes are used in the correct location.
- 5. Fill the Geoceptor with water to the correct level, which is to the top of the internal skim pipe. When the base tank has enough water inside the skim pipe will have stopped.
- 6. Pour concrete around the outside of the Geoceptor to 50mm above the Geoceptor base (Concrete level 1) and leave for 24 hrs. You can utilise a Ø1800mm manhole shutter to save on concrete wastage for this section of works.
- 7. Remove any shuttering and backfill around the outside of the concrete with relevant backfill material and compacting in layers and removing earthwork support as and when it is safe to do so.
- 8. Pour concrete to underside of Geoceptor cover (concrete level 2) ensuring it is level and leave for 24hrs.
- 9. Install Ø1200mm concrete manhole rings and coverslab on top of the concrete at level 2, bedding all rings on a mortar bed until reaching the desired level. The use of a concrete surround on the Ø1200mm manhole rings may be required depending on location of the Geoceptor and ground conditions.
- 10. Core a hole and install duct in the side ring at the desired level required for the alarm connection.
- 11. Backfill around Ø1200mm manhole rings and coverslab with appropriate backfill material and remove any remaining earthwork support.
- 12. Install any brickwork along with the cover and frame on the Ø1200mm concrete rings/coverslab
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5. Connections

- Inlet and outlet pipework shall be connected to the separator using watertight flexible couplings in accordance with the manufacturer's instructions.
- All connections shall be tested for watertightness upon completion.

6. Commissioning

- Following installation, the unit shall be inspected, cleaned, and commissioned in accordance with the manufacturer's requirements.
- As-built drawings and operation and maintenance manuals shall be provided to the client.

7. Maintenance Provision

- The access chamber and D400 cover shall provide suitable access for routine inspection, desludging, and maintenance.
- The contractor shall demonstrate access and removal methodology for safe maintenance of the separator.

We trust that the above information alongside the attached documents will provide sufficient detail to address the EA objection to this application. However, please do let us know if the EA require any further information.

Many thanks,

Anna

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