

Park Farm Storage Tank**Introduction**

The following CIRIA Compliance assessment has been developed for the existing farm tank at the proposed G.H. By Products (Derby) Limited Site, "Park Farm", located in Willingham-by-Stow. The National Grid Reference for the centre of the site is NGR SK 85925 84325.

The site is located on Park Farm in Willingham-by-Stow, Lincolnshire. The farm is currently used to rear cattle for food production and the farm tank, already located on site, is used for the temporary storage of recovered wastes prior to land spreading as fertiliser on fields surrounding the farm.

The waste storage infrastructure on site is to be expanded to include a new lagoon to supplement the existing farm tank to allow the bulking of wastes prior to land spreading. Note, the CIRIA Compliance assessment for the new lagoon is detailed within the report referenced – P171-CIRIA.

Document Scope*Guidance*

Guidance on the design and construction of farm tanks is available in the CIRIA Document CIRIA C759 "Livestock Manure and Silage Infrastructure for Agriculture". This document is published in 2 Parts – Part 1 covers site and storage selection and Part 2 covers design and construction.

It is this guidance that the Environment Agency require operators to follow when implementing the storage of wastes prior to their use for agricultural benefit at permitted facilities.

CIRIA Compliance Assessment*Tank Specification*

The following details set out the details held on file for the tank:

- The farm tank at Park Farm was erected in c.2009.
- The tank is c. 3800 tonnes in capacity;
- A sketch drawing of the tank including dimensions is provided in Appendix 1 below;
- Planning permission was obtained for the tank on 15/03/2010;
- The tank is an above-ground cylindrical steel panelled tank;
- Steel panels are lapped, and seam bolted together;
- The tank is finished with a blue protective coating to minimise the potential for corrosion;
- The tank is positioned on a suitably sized concrete pad.
- Delivery / collection point of the tank is fitted with lockable valves;
- The tank is fitted with an agitator;
- The tank is fitted with an external level gauge;
- The tank is roofed with a tension cover – SSAFO Notification submitted to the EA to confirm this 11/12/2018.

Cylindrical Store CIRIA Standards

The CIRIA guidance document states that cylindrical slurry tanks must comply with the requirements of SSAFO 2010 as this is best practice. A compliance inspection by the Environment Agency was undertaken at the farm on 20th January 2014. The site audit was completed to assess compliance against:

- the Nitrate Pollution Prevention Regulations 2013 (NVZ Regulations)
- the Water Resources (Control of Pollution) (Silage, Slurry and Agricultural Fuel Oil) Regulations 2010 (and as amended 2013) (SSAFO Regulations).

The Environment Agency's audit report issued to site following the visit stated the following:

'Visit Assessment Report – Park Farm, Willingham by Stow

I am pleased to let you know that the activities we inspected on 20 January 2014 were assessed as being compliant with the following regulations;

- *the Nitrate Pollution Prevention Regulations 2013 (NVZ Regulations)*
- *the Water Resources (Control of Pollution) (Silage, Slurry and Agricultural Fuel Oil) Regulations 2010 (and as amended 2013) (SSAFO Regulations)'*

Any NVZ / SSAFO audit will have included assessment of the farm tank to allow the above statement to be made by the Environment Agency. Therefore, it is considered that the farm tank meets CIRIA standard and has been signed off by the Environment Agency as meeting SSAFO Regulations.

Operation / Inspection and Maintenance

CIRIA standards require staff to be suitably trained in the use of the tank and maintenance regimes. All farm staff who are tasked with roles associated with activities using the farm tank are suitably trained in the filling, emptying and the conditioning of the tank. Furthermore, these items have been addressed within the operator's Environmental Management System to cover waste activities utilising the tank.

The tank is included as part of the site's Infrastructure Monitoring Programme. This includes a visual inspection of the tank on a weekly basis. Operators are instructed to note any faults / deficiencies during the inspection using site's incident and corrective action reporting structure. This is designed to instigate appropriate level of management commitment to ensure corrective action is undertaken. A review of completed inspection records indicates no deficiencies have been found during these inspections.

Conclusion

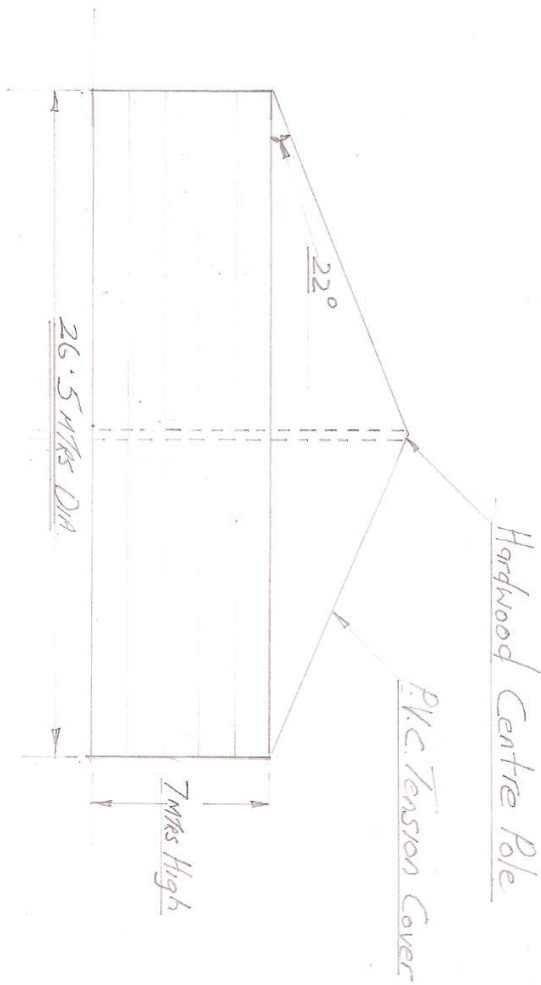
The CIRIA guidance document states that cylindrical slurry tanks must comply with the requirements of SSAFO 2010 as this is best practice. The farm tank was confirmed to meet SSAFO requirements as a result of an Environment Agency audit completed at site.

The management systems in place at the farm will continue to ensure the tank meets CIRIA / SSAFO requirements by;

- Ensuring staff remain suitably trained in the tank's use / maintenance requirements;
- The implementation of inspection and maintenance regimes.
- Requiring the documentation of inspections / maintenance / changes to the tank.

Appendix 1 – Farm Tank Drawing

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Capacity 3860 m³

Permastore Slurry Store 26.5mtrs Dia x 7mtrs High

Slurry Store of Park Farm - Willingham - Dr - Store