SMR 1: Water Protection
April 2021

The Water Resources (Control of Agricultural Pollution) (Wales) Regulations 2021 require
all farms in Wales to protect water from pollution. Agricultural pollution can be detrimental
to public health, the environment, local communities and to the agricultural industry itself.
The regulations specify measures which must be carried out if you intend to undertake certain agricultural activities. While the regulations apply to all land in Wales, transitional periods have been provided for certain requirements, for land not previously falling within a Nitrate Vulnerable Zone. Further details are available from the Welsh
Government Website.

**GOOD PRACTICE**

- Notify NRW before you plan a new, substantially enlarged or substantially reconstructed installation (silo or slurry storage system), to ensure the installation will be compliant and costly alterations can be avoided.
- Obtain copies of guidance literature to help you comply with all the requirements
- Ensure regular soil and manure analysis and use the results to influence nutrient planning.
- Refer to the Guidance which provides a template as an aid to completing the necessary plan, records and calculations which can be accessed at: gov.wales/land-management.

SAFTY FENCE 2.5MM CHAIN LINK FENCE TO BE 1.8M HIGH. POSTS TO BE 75MM (3 INCH) GALVANISED TUBULAR STEEL WITH A 3.2MM WALL THICKNESS, NO FURTHER THAN 3M APART EMBEDDED IN 600MM (2FT) OF CONCRETE.
FOUR STRANDS OF PLAIN WIRE SHALL BE STRAINED AND STAPLED OR TIED TO THE UPRIGHTS WITH TYING WIRE. ONE STRAND OF 2.5MM BARBED WIRE SHALL BE PLACED ALONG THE TOP OF THE FENCE.

LEAK DETECTION SYSTEM CONSISTING OF MANHOLE WITH SEALED BASE TRAVELING DOWN 1M BELOW THE FLOOR OF THE LAGOON, 160MM PIPE TO EXIT THE MANHOLE 1M FROM THE BOTTOM EXTENDING IN JUST UNDER THE LAGOON LINER AT THE BASE OF THE
LAGOON.

NEW LOCKABLE GATE TO HAVE NO HORIZONTAL BARS OTHER THAN THE TOP AND BOTTOM BAR. RIGID GALVANISED STEEL MESH WELDED DIRECTLY ONTO THE GATES, FRAME TO BE HUNG ON 100MM CIRCULAR POSTS.

TYRE LADDERS PROVIDED AS A MEANS OF EMERGENCY ESCAPE FROM THE LAGOON LOCATED IN THE FOUR CORNERS OF THE LAGOON AND EVERY 8M ALONG THE SIDES OF THE LAGOON ROPES TO BE TIED OFF AT THE BOTTOM OF THE FENCE POST..

DESIGN, EXCAVATION, GROUND WATER CONTROL, EMBANKMENT CONSTRUCTION AND MATERIAL COMPACTION TO BE IN COMPLIANCE WITH BS6031:2009- CODE OF PRACTICE FOR EARTHWORKS.

LAGOON LINER CONTINUOUSLY WELDED 2.5MM HDPE LINER BY SPECIALIST SUPPLIER.

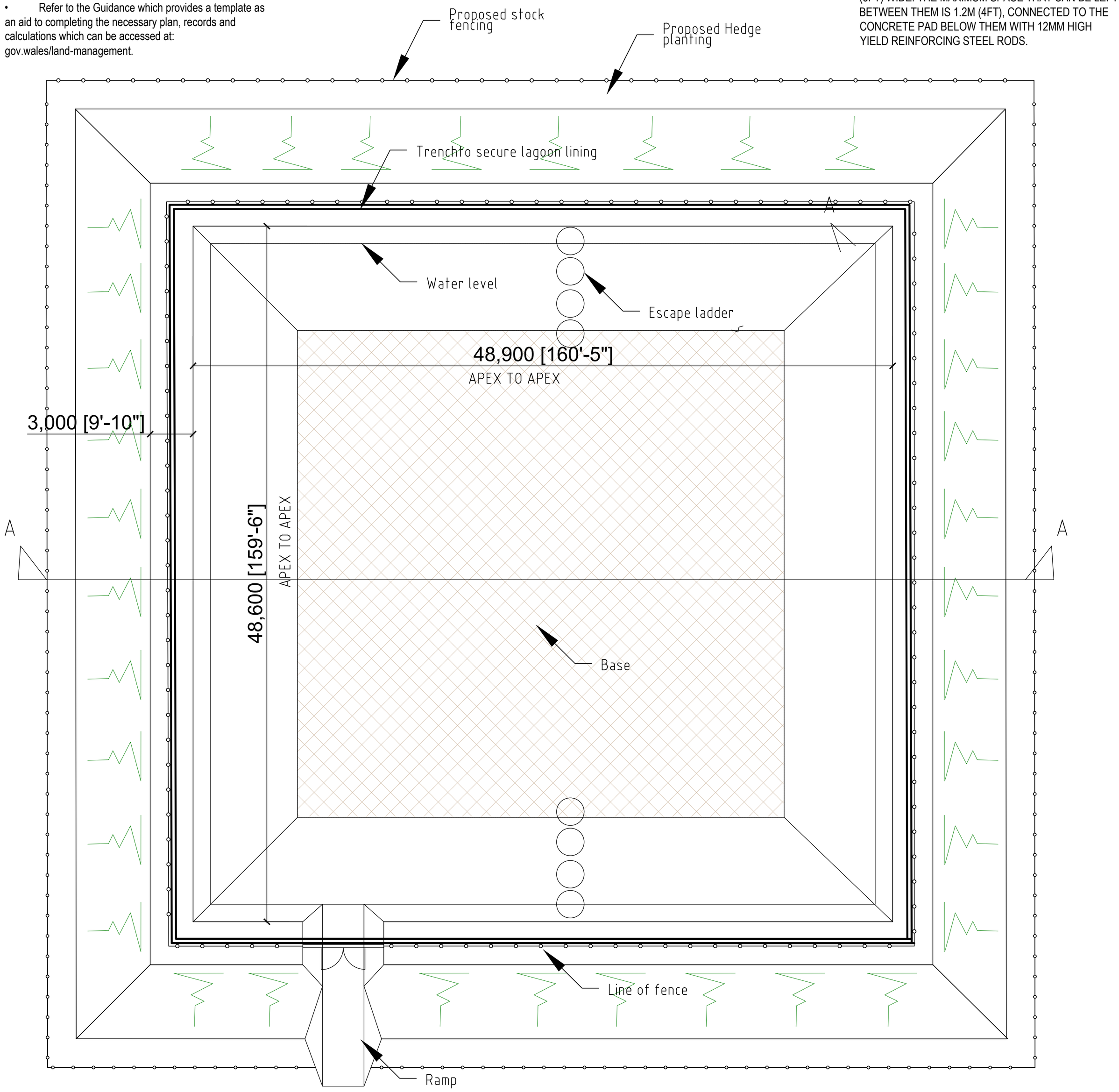
LINE BASE WITH 80MM PEA GRAVEL AND WALLS WITH 50 MM QUARRY DUST, CHECK DETAILS WITH LINER MANUFACTURE.

ANCHOR LINER IN 600X600MM BACKFILLED ANCHOR TRENCH IN LINE WITH FENCE

LEAK DETECTION AND SAMPLING POINT A SAMPLING JAR ON A RETRACTABLE ROD TO RECOVER SAMPLES FROM THE GROUND WATER COLLECTION CHAMBER BESIDE THE DRAW-OFF SUMP.
160MM Ø SEWER PIPE AND SEALING CAP ON THE EMBANKMENT CREST OUTSIDE THE FENCE LINE.

SLURRY STORE DESIGNED AND BUILT IN ACCORDANCE WITH BS5502 AND SSAFO STORAGE REGULATION.

WHEEL STOPS PREVENT THE TRACTOR FROM REVERSING INTO THE LAGOON ACCIDENTALLY, 300MM (1FT) HIGH,300MM (1FT) THICK AND 900MM (3FT) WIDE. THE MAXIMUM SPACE THAT CAN BE LEFT BETWEEN THEM IS 1.2M (4FT), CONNECTED TO THE CONCRETE PAD BELOW THEM WITH 12MM HIGH YIELD REINFORCING STEEL RODS.




PROJECT
PROPOSED SLURRY LAGOON
HALGHTON VILLA, HORSEMANS GREEN
WHITCHURCH SY13 3DY
FOR P HUXLEY

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DWG. TITLE: Lagoon Plan

| DWG No: | REV: | SCALE: | DATE: |
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| 24 - 05 | - | 1 / 200 @ A2 | 02/24 |