CUSTOMER: John Williams, AJMW Design **SITE: Mount pleasant Farm, BL9 6XA**
DATE: 16.07.20

RE: RECOMMENDATIONS

My brief recommendations are shown on the plan attached.

1. improve, replace or install a catchment tank for the live spring water supply.

2. install a new drain from the spring to its current discharge point.

3. connect the new sewage treatment plant discharge to this spring overflow drain.

4. install a new attenuation tank system either within the carpark or the field depending on levels needed.

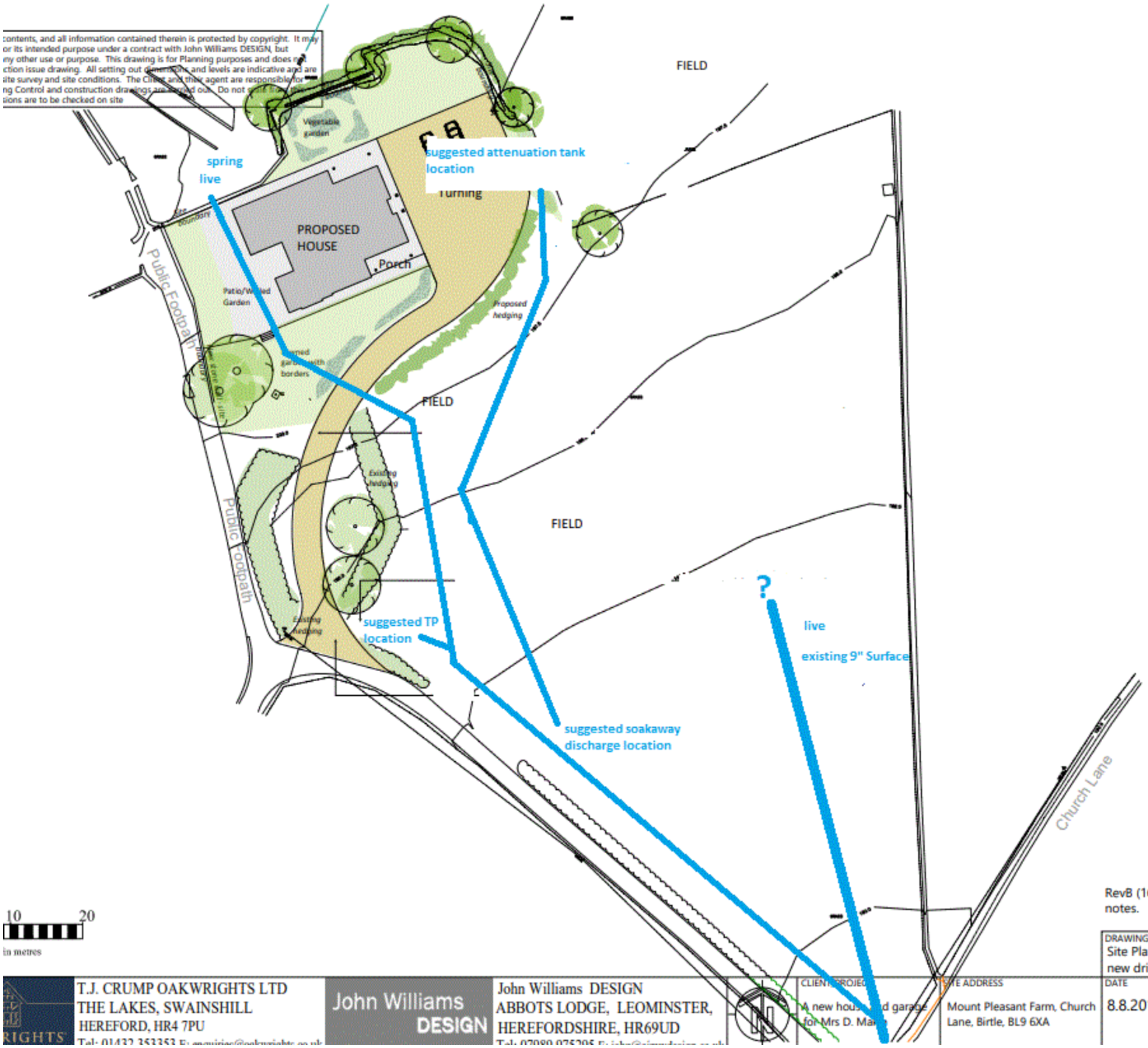
5. discharge the attenuation tank water into the suggested soakaway area.

6. The existing lower field is wet even in dryer weather and has had a large number of existing historical land drains which we came across, if heavy plant were to use this area during the construction stage some would most certainly be damaged, I would therefore suggest a land draining scheme on completion discharging into the soakaway which would take away some of the current water from the field going into the existing main culvert which already appears over loaded.

7. The folder FYI show a 9" surface water drain running through the field which we unavoidable found when carrying out the first test hole, this has now been repaired. This pipe would not be suitable for the sewage discharge as it would appear to dry up during summer.
This pipe transports water from high water courses/fields and would appear to collect the water from the land drain system in the test hole area (not confirmed).

Mark Horridge
Aquablast services Ltd.

WATER – WASTEWATER - SEWERAGE



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site survey and site conditions. The Client and their agent are responsible for
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sions are to be checked on site
FIELD
Vegetable garden
spring
live
suggested attenuation tank
location
Turning
PROPOSED
HOUSE
Porch
Patio/Walled Garden
Proposed hedging
Public Footpath
FIELD
Existing hedging
FIELD
Public Footpath
Existing hedging
suggested TP
location
?
live
existing 9" Surface
suggested soakaway
discharge location
Church Lane
10
20
in metres
RevB (16.3.2020)
notes.
DRAWING TITLE
Site Plan As Prop
new driveway p
T.J. CRUMP OAKWRIGHTS LTD
THE LAKES, SWAINSHILL
HEREFORD, HR4 7PU
John Williams
DESIGN
John Williams DESIGN
ABBOTS LODGE, LEOMINSTER,
HEREFORDSHIRE, HR69UD
CLIENT PROJECT
A new house and garage
for Mrs D. Ma
SITE ADDRESS
Mount Pleasant Farm, Church
Lane, Birtle, BL9 6XA
DATE
8.8.2019

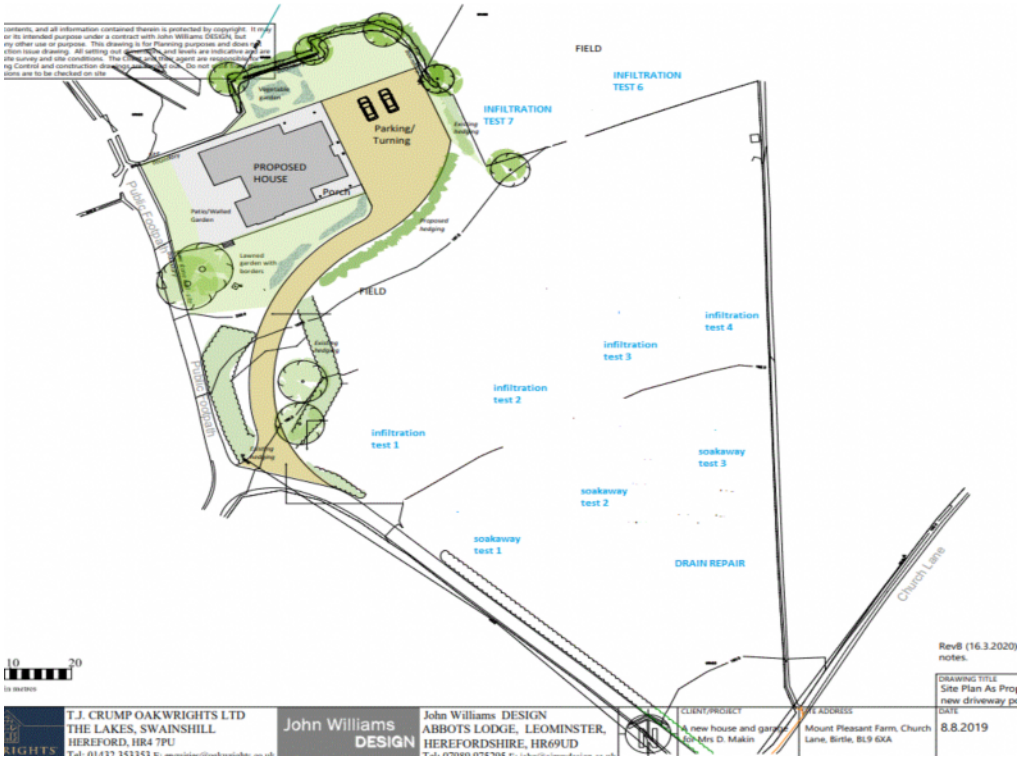
CUSTOMER: John Williams, AJMW Design **SITE:** Mount pleasant Farm, BL9 6XA,
DATE: 16.07.20

RE: Infiltration tests 1,2,3,4,5,6.
Carried out For the proposed installation of a sewage treatment plant drainage system

We carried out 6 infiltration test hole investigations in selected locations identified on the attached plan.
The test holes were carried out below the invert level at which may be be suitable for a sewage treatment plant discharge infiltration drain.

The test hole sizes were 300mm x 300mm x 300mm.

The tests were carried out on dry days but it had been constantly raining 4 days prior to the tests.



WATER – WASTEWATER - SEWERAGE

1 . Infiltration test 1 was carried out and filled with water. The water level did not drop within 24hrs.
This location is not suitable for an infiltration drain.





2 . Infiltration test 2 was carried out and filled with water. The water level did not drop within 24hrs.
This location is not suitable for an infiltration drain.





3 . Infiltration test 3 was carried out and filled with water. The water level did not drop within 24hrs.
This location is not suitable for an infiltration drain.





4 . Infiltration test 4 was carried out and filled with water. The water level did not drop within 24hrs.
This location is not suitable for an infiltration drain.



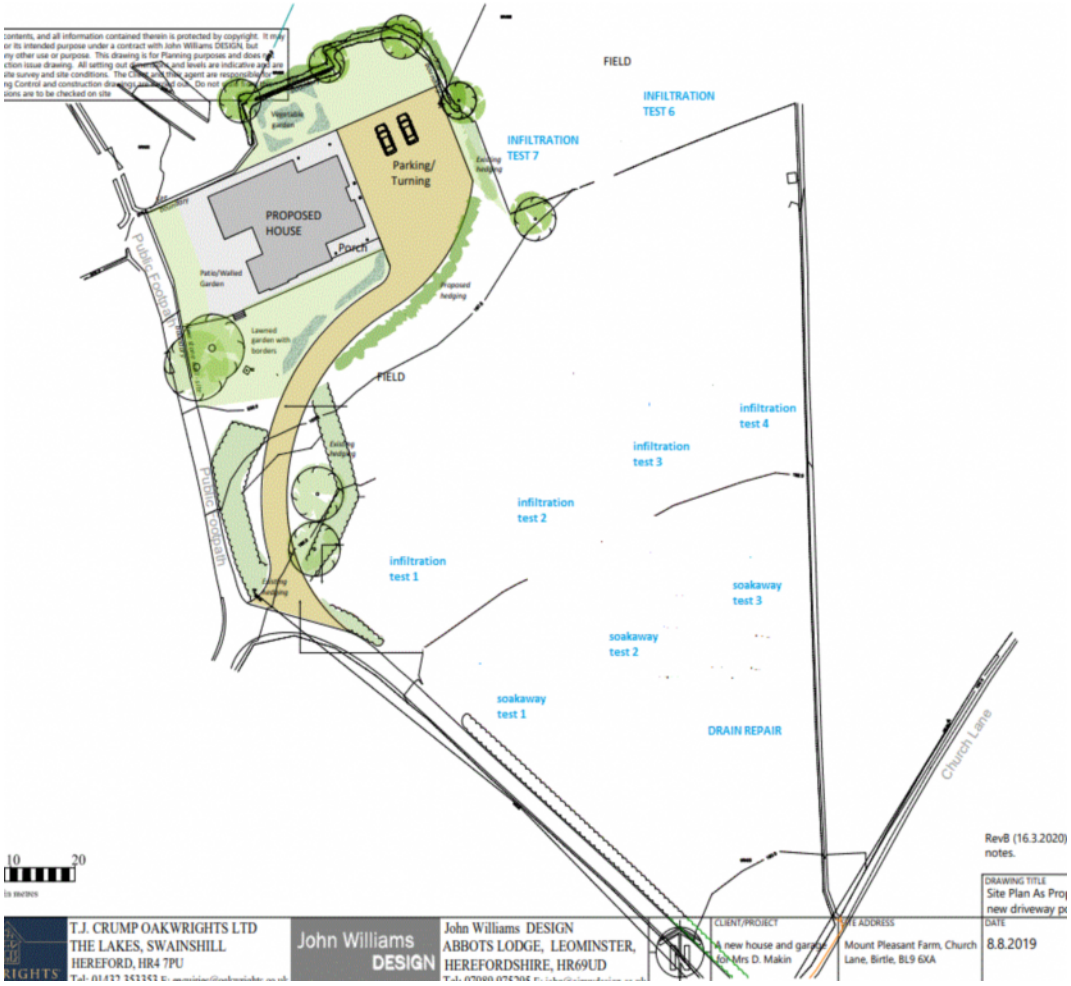
5 . Infiltration test 5 was carried out and filled with water. The water level did not drop within 24hrs.
This location is not suitable for an infiltration drain.



CUSTOMER: John Williams, AJMW Design **SITE: Mount pleasant Farm, BL9 6XA,**
DATE: 16.07.20

Re: SOAKAWAY TESTS 1,2,3.

We carried out 3 soakaway test hole investigations in selected locations identified on the attached plan.
The tests were carried out on dry days but it had been constantly raining on up until 2 days prior to the test



1 . **soakaway 1** test was carried out to a depth of 2.8 mtrs The excavation was left open for 24 hrs with no evidence of ground water.
1200ltrs of water was introduced which dissipated within 1.5 hrs.
I would recommend this location to be used as your soakaway to discharge the surface water from the development possibly in conjunction with an attenuation tank.



Test Hole 1 location



Test Hole 1 ground layer sample 1, Topsoil, slow draining



Test Hole 1 ground layer sample 2, Sandy, light clay content



Test hole 1, ground layer sample 3, Sandy clay.



Test hole 1, ground layer sample 4, Dark grey and moist, Looks organic with no odour and break easy in the hand.



Test hole 1, ground layer sample 5, Dry riverbed stone and silt.



Test hole 1, Depth 2.8mtrs



Test Hole 1, Layers



Test Hole 1, soakaway test 1200ltrs introduced



Test Hole 1, Soakaway water level after 1 hour



Test Hole 1, Soakaway water level after 1.25hrs



Test Hole 1, Soakaway test emptied after 1.5hrs

2 . Soakaway 2 test was carried out to a depth of 2.8mtrs. The excavation was left open for 24hrs with no evidence of ground water
1200ltrs of water was introduced with no drop in level after 24hrs,
This location is not suitable to be used for a soakaway.



Test Hole 2, location



Test Hole 2, ground layer sample 1, Top soil, slow draining



Test Hole 2, ground layer sample 2, Sub soil, Sandy, light clat content.



Test Hole 2, ground layer sample 3, Sandy, heavy clay content.



Test Hole 2, ground layer sample 4, Dark grey moist looks organic, no odour and breaks easy in the hand.



Test Hole 2, ground layer sample 5, Wet river bed stone and silt



Test hole 2, depth



Test Hole 2, Layers



Test Hole 2,
Soakaway test
introduced 1200ltrs



Test Hole 2,
Soakaway test, No level
drop in 24hrs

3. Soakaway 3 test was carried out to a depth of 2.8mtrs. The excavation was left for 24hrs with no evidence of ground water.
1200ltrs of water was introduced with no drop in level after 24hrs.
This location is not suitable to use for a soakaway.



Test Hole 3 Location.



Test Hole 3, depth 2.8mtrs



Test Hole 3, ground layer sample 1, Top soil slow draining



Test Hole 3, ground layer sample 2, Sandy, light clay.



Test Hole 4, ground layer sample 4, Heavy clay



Test Hole 4, ground layer sample 5, Dark grey moist, looks organic with no odour and breaks easy in the hand.

Mark Horridge
Aquablast services Ltd.

6 . Infiltration test 6 was carried out and filled with water. The water level did not drop within 24hrs.
This location is not suitable for an infiltration drain.



Mark Horridge
Aquablast services Ltd.