AQUARIUS® WASTEWATER SYSTEMS
A DIVISION OF coerco

Waste treatment for spaghetti factory.

Based on your information, we have configured an Aquarius O-2NR 1.8KL P Commercial ATU to service the spaghetti factory (toilets showers and hand washbasins only … No trade waste from commercial kitchen and or washdowns)

Our hydraulic loading calculation, based on information supplied by you, is as follows:

User Type	Number of Person	L/person/day	Total
Factory Staff	10	70	700
Admin Staff	4	30	120
Sales staff	6	30	180
Total			**1,000 L/day**
System Size - Recommendation			1,800L (1.8KL)

ATU

Supply an Aquarius O-2NR 1.8KL P Com ATU

The system is nutrient retentive and is capable of treating 1,800L per day. The tanks are configured in plastic with non-trafficable gastight lids and comes with dual discharge standby duty pumps and control panel (drawing attached).

System has a *standard Invert Level 650-850mm*. This can be extended to a maximum invert of 1450mm with risers. Should a deeper invert be required a price revision would be necessary.

DISPOSAL OPTION (supply of components only)

Assuming Loamy Clay Soil with a Design Loading Rate (DLR) of 20mm/day.

AqwaCell16 Flatbed Leach Drain

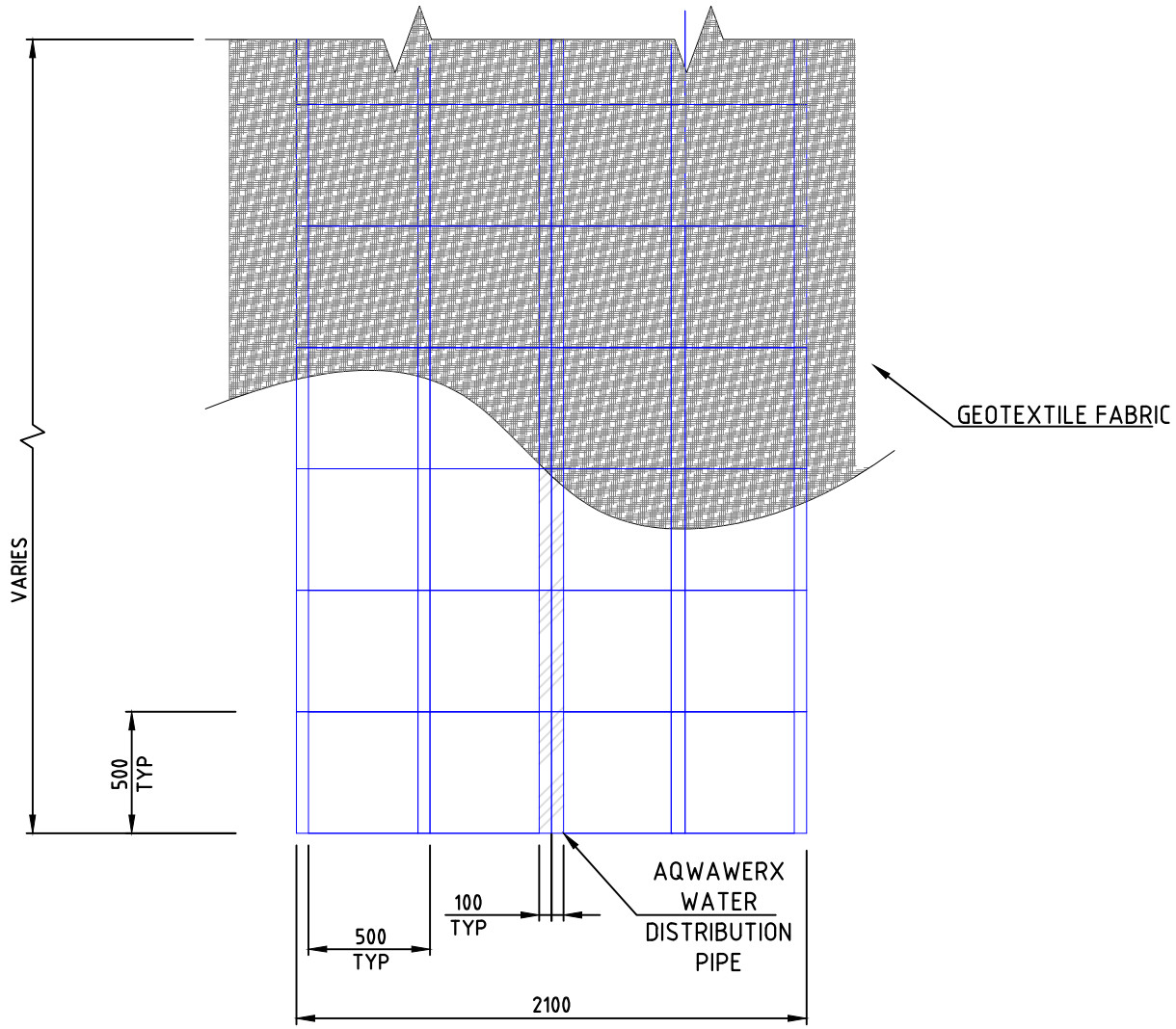
(Hydraulic Loading) 1,000 ÷ 20 ÷ 2 = 25m

Recommend a configuration of 2 drains x 12,5m long x 2.1m wide each.

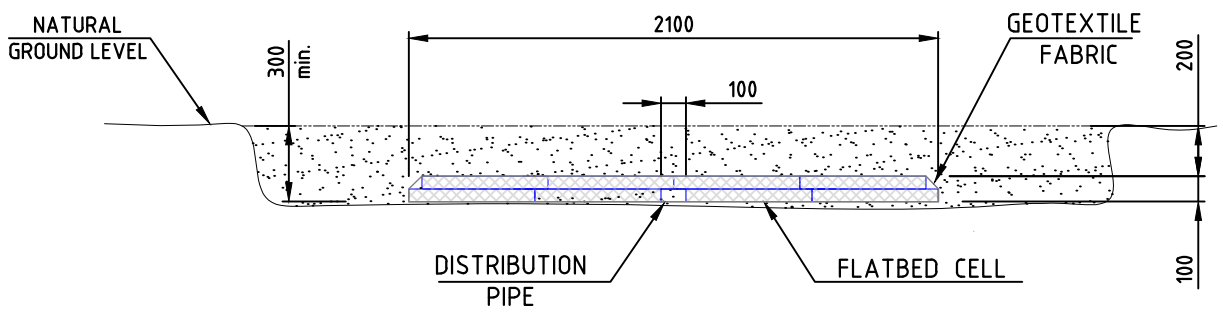
Drains are 2.1m wide and requires 1.8m separation between each bed.

All of the above is subject to Local Government and DoH approval.

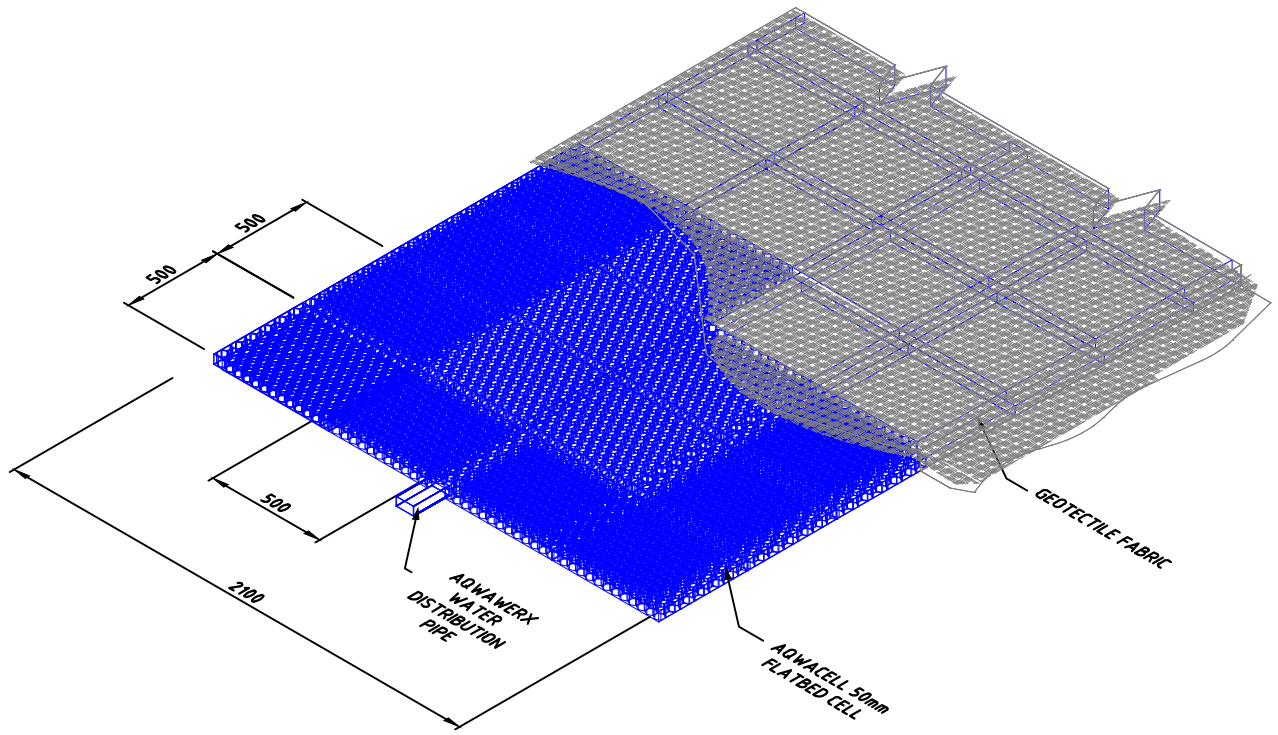
- Supply of an Aquarius ATU in plastic tanks suitable for installation in a non-trafficable area; as well as any associated pumps, control panels and fittings as shown on drawing. Prices are based on an invert level of the sewer drains entering the Primary Tank of the ATU to be 650-850mm FGL. If the invert level is deeper a revised budget quote may be needed.
- Supply of Flatbed Leach Drains with an automatic diversion valve.
- Clean sand to put underneath the Flatbed Drains should they be fully inverted (i.e. installed on a 600mm sand pad above natural ground level



AQWACELL FLATBED CELL UNITS
PLAN VIEW
SCALE 1:30



AQWACELL FLATBED CELL UNITS
SECTIONAL VIEW
SCALE 1:30



TYPICAL AQWACELL FLATBED CELL ARRANGMENT
SCALE 1:30

NOTE: CELLS ARE TO BE FULLY COVERD WITH
GEOTEXTILE FABRIC ON INSTALLATION.

Aquarius Wastewater Systems Pty Ltd

AQUARIUS®

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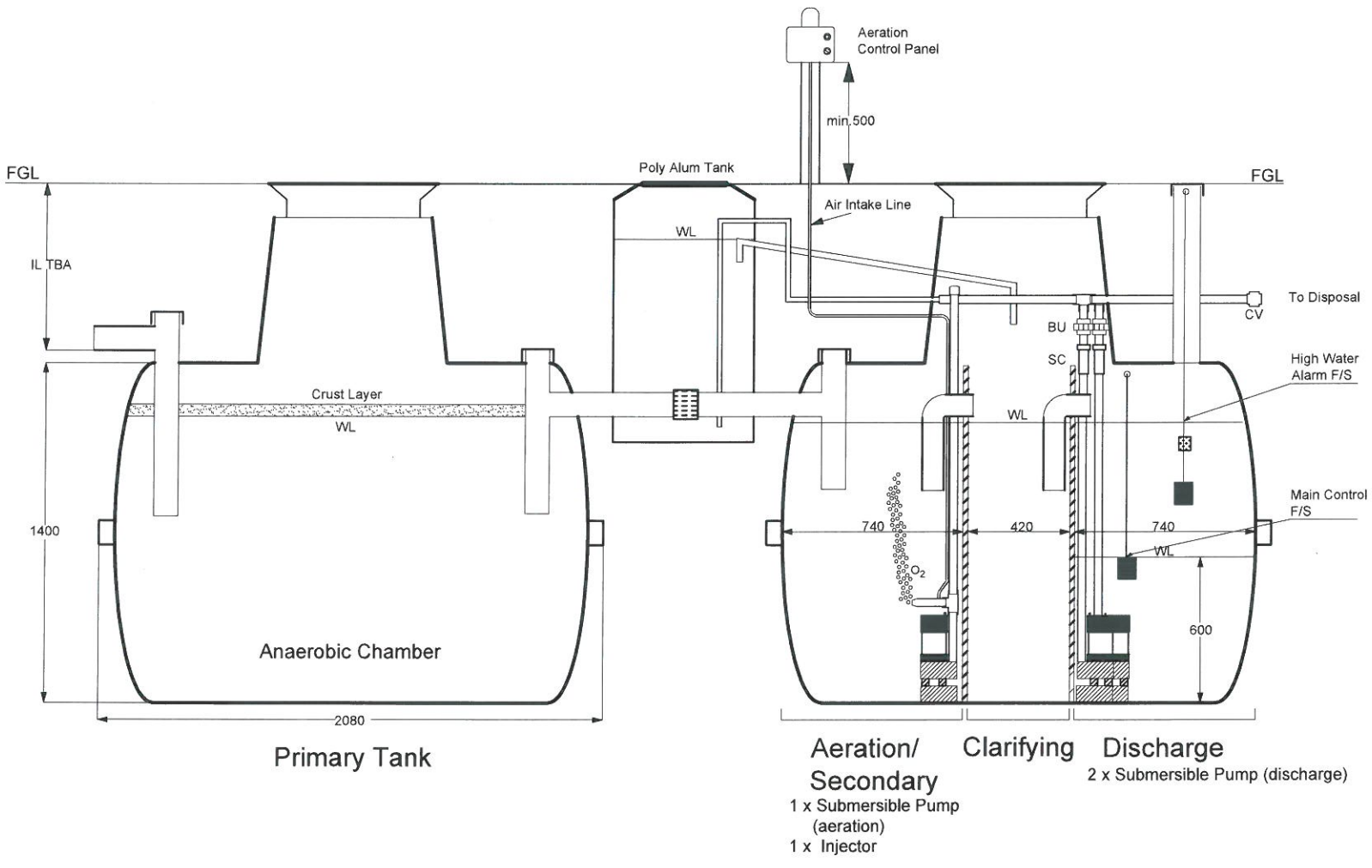
All measurements are in millimeters unless specified otherwise

TITLE:
AqwaCell16 Flatbed Leach Drain

			SCALE : See on dwg	CHECKED : M.B	REV.
			DATE : 01 / 09 / 2021	SHEET : 1 OF 1	0
			DRAWN : S.H		SIZE
Rev.	Description	Date	DRAWING NO: AWS-AQWACELL16-FLD		A3

AQUARIUS® O-2 NR 1.8KL ATU

ELEVATION | Duralen Plastic Tanks | 2 x 2700 Carat Tank with baffles | Dual Discharge



Invert Level 650mm to 850mm (adjustable with Risers)

Tank Capacities (L):

Primary Chamber : 2400
Secondary/Aeration Chamber:875
Clarifying Chamber : 650
Discharge Chamber : 875
Discharge Volume: 170

Effluent Quality Performance Criteria:

Parameters & Specification
Total Suspended Solids: <30mg/L
Biological Oxygen Demand: <20mg/L
pH: 6 - 8

Structural integrity: 15 years (tanks)
Serviceability min 15 years

System complies with AS/NZS 1547:2012 & 1546.3

Treatment Performance:

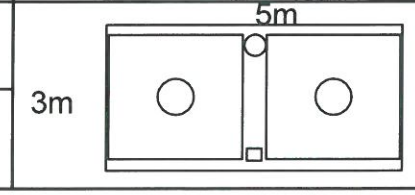
Maximum: 1800 Litres per day
Minimum: 180 Litres per day

CERTIFICATION

PROCESS ENGINEER: Olaf Stams, State Qualified Technician ATST Kiel Germany
Environmental Technology/Process Engineering

DATE: 16.01.2018 | SIGNATURE:

FOOTPRINT



Depth: 1590mm + IL

AQUARIUS® O-2 NR 1.8KL ATU

DRAWN:	CHECKED:
NB	
DATE: 16.01.2018	SCALE: NTS

All measurements are in millimetres unless specified otherwise