Current greenhouse details

- Employees: Myself and one full time (casual) employee.
- Operating 7 days per week
- Staff carparking is located at the front of the property by the generator shed.
- Supply only to Canningvale Wholesale Market, with our own delivery truck to Organic Fresh Pty Ltd. No product is sold to the public.
- Cucumbers are stored on site in our cool room, which is in our packing shed.
- Current water license is 16,650kl, bore water is filtered and stored in an internal insulated tank to keep at constant temperature. (No desalination required)
- Grow cycle is 12 months as we heat the greenhouse with oat husk product into our beacon boiler.
- Fertilizer run off is PVC drainage into a contained soakwell with a submersible pump to above ground tank. This is used to water orchard etc. around property. Photos are provided in NIMP.
- Priva fertigation system to operate irrigation cycles, amounts and store data.

Proposed greenhouse details

- Employees will increase to four including myself.
- We employ local people and are not in a Visa accepted area.
- Operate 7 days per week 6am – 1pm.
- No modifications needed on site to accommodate for extra product, storage, water license, machinery.
- Separate drainage system to be installed for fertilizer drainage on proposed greenhouse.
- Proposed greenhouse is setup to operate more efficiently with internal screening to reduce irrigation and operating costs
- Future developments to retain water run off from both greenhouses and stored for irrigation use. Currently not done due to costing
- Proposed greenhouse had been in use for several years. It is a high-quality structure that can be reused. The size (1870m^2), is within our water license requirements of 4000m^2.
- Structure details: as per attached photos.
- 44m^L x 42.5^W x 5.5m^H
- "C" channel posts: 80mm x 50mm x 3mm at 4m spacings.
- "C" end support posts: 70mm x 40mm x 2.5mm at 2m spacings
- 65mm internal bracing for each span
- Various internal bracing in each span
- Footings: 150mm x 400mm
- Once erected on site, the floor will be concreted
- Priva fertigation system to be used for operation.

Department of Planning, Lands and Heritage

Map Title

1: 1,418

0.1 0 0.04 0.1 Kilometers

Date produced: 19-Nov-2024

This map is a user generated static output from PlanWA (a public interactive mapping tool provided by the Department of Planning, Lands and Heritage and accessed via wa.gov.au) and is for reference only.

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Legend

☐ Cadastre

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Notes

Description of current irrigation system

- Hydroponic growing – coco peat.
- Priva fertigation system using accurate inputs of weather and radiation to calculate times and irrigation amounts.
- Integrated DSS (Drain tray measuring of drainage plus EC levels).
- Pressure compensated irrigation system for consistency.
- Integrated pulse irrigation to reduce fertiliser wastage.
- Use of IPM (predatory bugs) to reduce spraying of insecticides/pesticides
- Use of microbiological products to enhance plant growth and resistance to fungicides.
- Retain fertiliser runoff to reuse on orchid and property.
- No desalination, only filtration is UV, no chemicals used.
- Used coco peat is recycled around property as mulch and soil improvement.
- Current groundwater EC level: 0.48 PH level: 7.02.
- Site has been previously used for cucumber farm.
- Water storage: Internal insulated tank to keep water at a constant temperature. Capacity is 30,000L.
- Future potential to catch runoff from both greenhouses. Currently not cost viable.
- Proposed greenhouse to have some drainage system as currently used as per photos attached.

Pesticide storage and use

Currently have an IPM program that we use including microbiological products. All pesticides are stored within a cabinet under cover in our irrigation shed. Mixing of products is done within the same shed.

Product	**Active Constituent**	**Amount used**
Pybo	*Pyrethrins*	*1ml/1L*
Success Neo	*Spinetoram*	*40ml/100L*
Transform	*Sulfoxaflor*	*40ml/100L*
Vertimec	*Abamectium*	*30ml/100L*
Flute	*Cyflufenamid*	*25ml/100L*
Fontellis	*Penthiopyrad*	*150ml/100L*
Tridium 250EC	*Methyl/Pyrrolidone*	*40ml/100L*
Eco carb plus	*Potassium, bicarbonate* *Potassium, silicate*	*300gms/100L*
Azoxystrobin 250	*Azoxystrobin*	*120ml/100L*
Agrifos 600	*Phosphorous Acid*	*300ml/100L*

Use is depending on insect and fungicide pressure during the growing cycle.

Spray records kept in yearly diary with amount and dates. Whiteboard with frequency per crop used. Application depends on what is used.

Types:
-Vertical spray bar: misting nozzles

-ULV fogging: WANJET

-Thermal fogging

-Hand spraying

100 X Concentration (kg/1000 litres water)			Check
Amount required to fill A and B tanks:	1000.00	Litres	
SOLUTION A			
CALCIUM NITRATE	66.45	kg	
POTASSIUM NITRATE	28.13	kg	
FeLo (13.2%)	2562.5	g	

SOLUTION B			
MAGNESIUM SULPHATE	22.13	kg	
POTASSIUM NITRATE	28.13	kg	
POTASSIUM SULPHATE	12.83	kg	
AMMONIUM SULPHATE	3.61	kg	
COPPER SULPHATE (25.0%)	324.0	g	
MANGANESE SULPHLATE (32%)	914.1	g	
ZINC SULPHATE 21%	118.7	g	
SODIUM MOLYBDATE 39%Mo	34.9	g	
SULPHURIC ACID	0.00	L	

SOLUTION C per 1000 Litre	**L to make 1000L**		
MKP	10.7	kg	
SOLUBLE BORON (21%)	760.6	g	
PHOSPHORIC ACID	13.50	L	

Current fertiliser mix per 1000l

Monthly rainfall

Hopelands

12:05

About this page

All years of data PDF

The Monthly rainfall is the total of all available Daily rainfall for the month. Observations of Daily rainfall are nominally made at 9 am local clock time and record the total for the previous 24 hours. Rainfall includes all forms of precipitation that reach the ground, such as rain, drizzle, hail and snow. About monthly rainfall

Station: Hopelands | Number: 9253 | Opened: 2000 | Now: Open
Lat: 32.39° S | Lon: 115.85° E | Elevation: 7 m | Details

No highlight

Key: Units are millimetres. *12.3* = Not quality controlled.

Period for calculating statistics: All years 1961-1990

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Graph													
2000		0.0		40.0	52.0	133.0	270.0	147.5	50.5	4.0	14.0	0.4	
2001	1.0	2.0	2.8	3.8	123.4	70.0	117.0		98.0	31.2	22.6	11.2	
2002	26.7	0.0	3.3	54.0	50.0	144.0		104.0	62.0		25.0	5.0	
2003	3.6	29.8	63.6	124.0	93.0	150.0		116.0	94.0	43.0		2.0	
2004	0.0	1.0	0.0		93.0	144.0	148.0	136.0	42.0	58.0	25.0	6.0	
2005	0.0	2.0	25.0	46.0	219.0	213.0	78.0	128.0	111.2	81.6	19.2	15.0	938.0
2006		5.0	9.0	36.6	70.4	21.0	128.0	186.0	48.0	32.0	25.0	2.0	
2007	16.0	9.0	3.4	57.6	68.4	97.6			120.0	64.0	3.0	14.0	
2008	0.0	74.0	15.0	126.0	94.0	161.0	209.0	24.0	60.0	48.0	82.0	8.0	901.0
2009	18.4	10.2	8.4	1.4	66.6	204.0	132.0	120.0	101.0	11.4	43.6	2.0	719.0
2010	0.0	1.0	40.0	37.2	76.8	65.0	114.0	67.0	22.6	17.0	12.4	7.0	460.0
2011	33.0	0.0	0.0	29.6	81.4	191.0	153.0	119.0	117.0	28.6	43.4	56.0	852.0
2012	67.0	13.6	0.2	60.2	83.0	164.0	50.0	101.0	95.0	23.6	55.2	59.2	772.0
2013	12.4	3.0	59.8	11.8	136.0	34.4	114.6	184.0	131.0	35.4	9.6	1.0	733.0
2014	0.0	0.0	28.0	28.0						34.3	24.1	0.0	
2015	0.0	10.7	19.5	47.4	56.8	76.6	119.7		36.6	19.2	19.8	16.4	
2016	48.8	2.0	19.8	44.0	92.4	111.6	101.8	162.0	79.2	*36.8*	18.0	6.8	*723.2*
2017	7.2	153.8	21.1	0.0	93.6	61.2	187.8	131.0	87.6	37.6	4.0	31.0	815.9
2018	109.6	3.8	6.0		91.6		173.2	179.7	21.3	44.7	5.5	1.6	
2019	6.2	0.0	14.4	32.6	18.8	160.6	109.0	103.3	44.2	34.7	10.4	3.0	537.2
2020	2.2	*4.0*	41.2	11.6	*74.4*	111.4	114.6	*74.4*	*79.0*	20.6	*57.7*	0.0	*591.1*
2021	0.0	*52.8*	28.6	*54.2*	102.8	*95.4*	278.9	*82.6*	*77.0*	95.2	5.6	1.5	*874.6*
2022	0.0	*0.0*	8.5	*66.8*	105.1	*140.6*	*180.4*	*156.4*	64.8	23.0	37.2		
2023	0.0	0.0	24.4	66.7	21.6	185.0	157.0	58.7	64.7		5.8	6.0	
2024	0.0	2.0	1.0	2.0	113.4	130.4	*196.2*	160.4	42.8	41.8	11.2	0.0	*701.2*
2025	0.0	0.0	10.2	*15.2*	63.0	*144.4*	*178.7*	*199.8*	*87.8*	*67.8*	*9.2*	*0.0*	*776.1*

2000 Go View a year of daily data

Summary statistics for all years

Information about climate statistics

Statistic	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Mean	14.7	14.6	18.1	41.5	85.6	125.4	150.5	124.6	73.5	38.9	23.5	10.2	742.5
Lowest	0.0	0.0	0.0	0.0	18.8	21.0	50.0	24.0	21.3	4.0	3.0	0.0	460.0
5th %ile	0.0	0.0	0.0	1.5	27.3	38.4	79.2	59.1	25.4	12.2	4.3	0.0	510.2
10th %ile	0.0	0.0	0.5	2.5	50.8	62.3	102.5	67.7	38.8	17.7	5.5	0.0	553.4
Median	1.6	2.0	14.4	38.6	83.0	136.8	140.0	124.0	77.0	35.0	19.2	5.0	752.5
90th %ile	44.1	41.3	40.7	66.8	119.4	189.2	207.7	183.6	114.7	66.7	50.6	25.2	893.1
95th %ile	64.3	68.7	56.1	115.4	133.5	202.1	267.0	185.9	119.4	79.5	57.2	51.0	914.0
Highest	109.6	153.8	63.6	126.0	219.0	213.0	278.9	199.8	131.0	95.2	82.0	59.2	938.0

Data within the table which are in italics represent observations which have not been fully quality controlled, a process which may take a number of months to complete. While these data may be correct, you should exercise caution in their use.

Gaps occur in the table where there are missing valid daily observations within the month. This is frequently associated with the observer being unavailable (where observations are undertaken manually), a failure in the observing equipment, or when an event has produced suspect data.

top

Product Code: IDCJAC0001 reference: 0133650003

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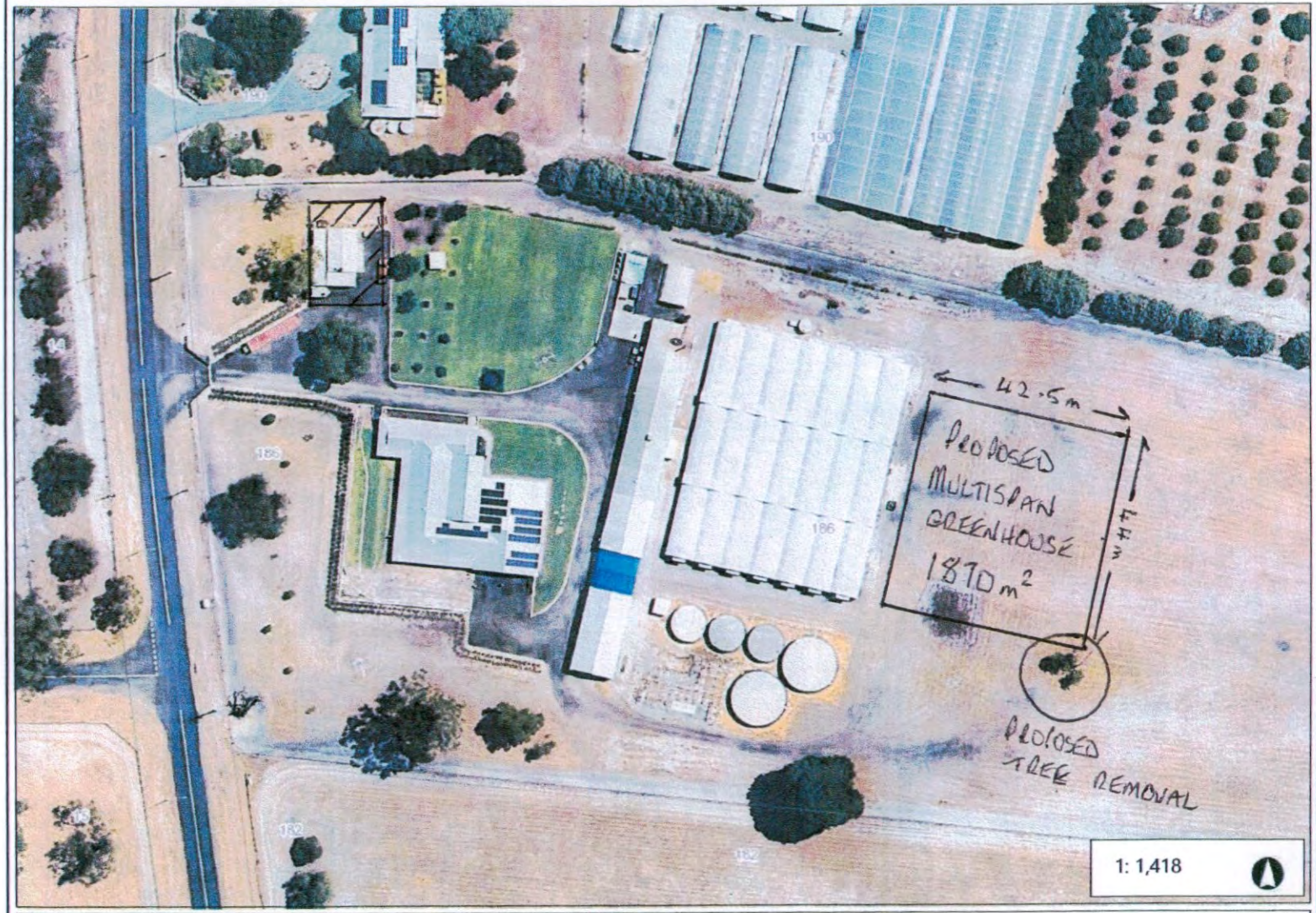
Department of Planning, Lands and Heritage

Map Title



1: 1,418

0.1 0 0.04 0.1 Kilometers

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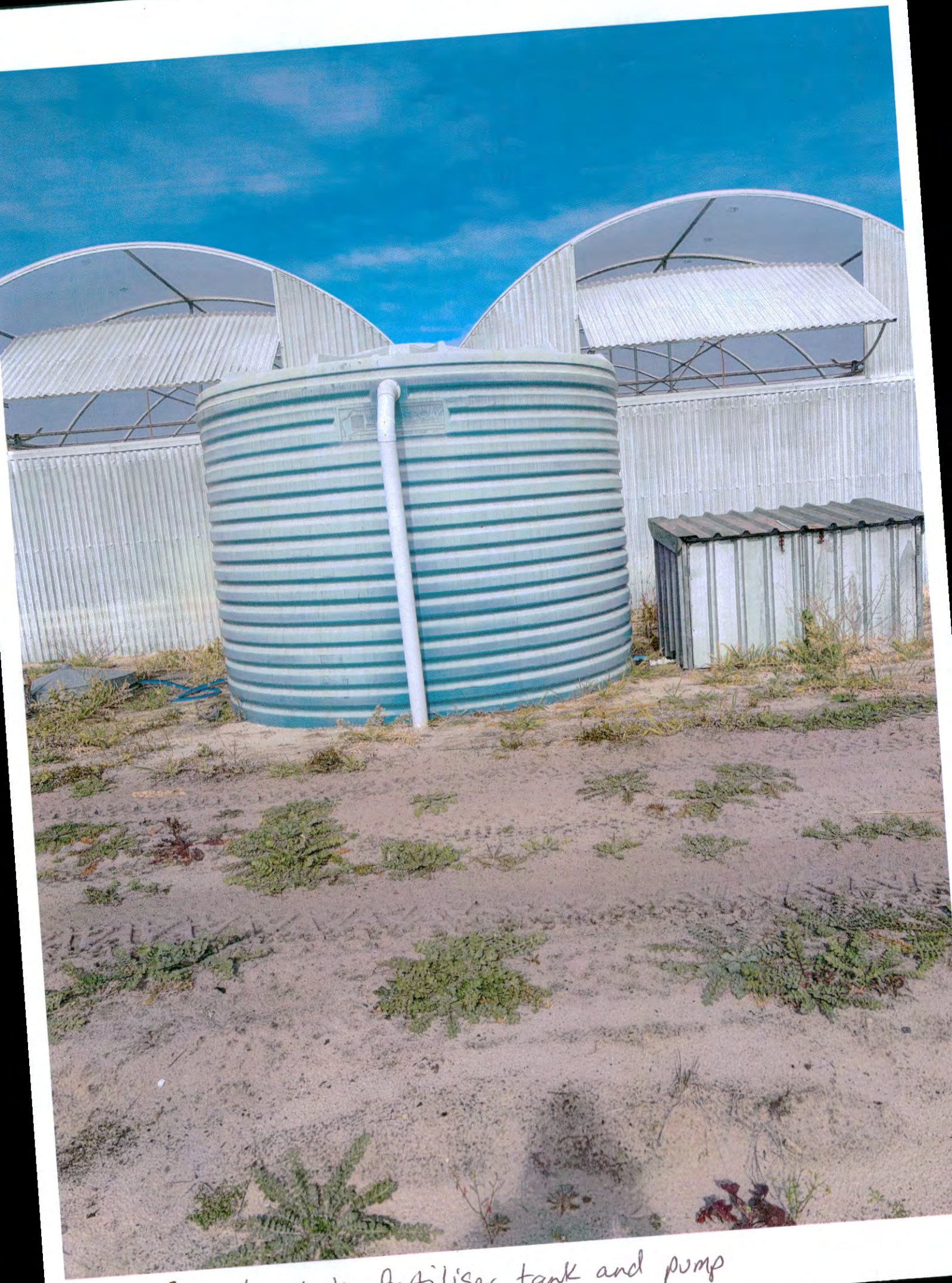
Notes

Current fertiliser drain + submersible pump



Current Waste fertiliser tank and pump