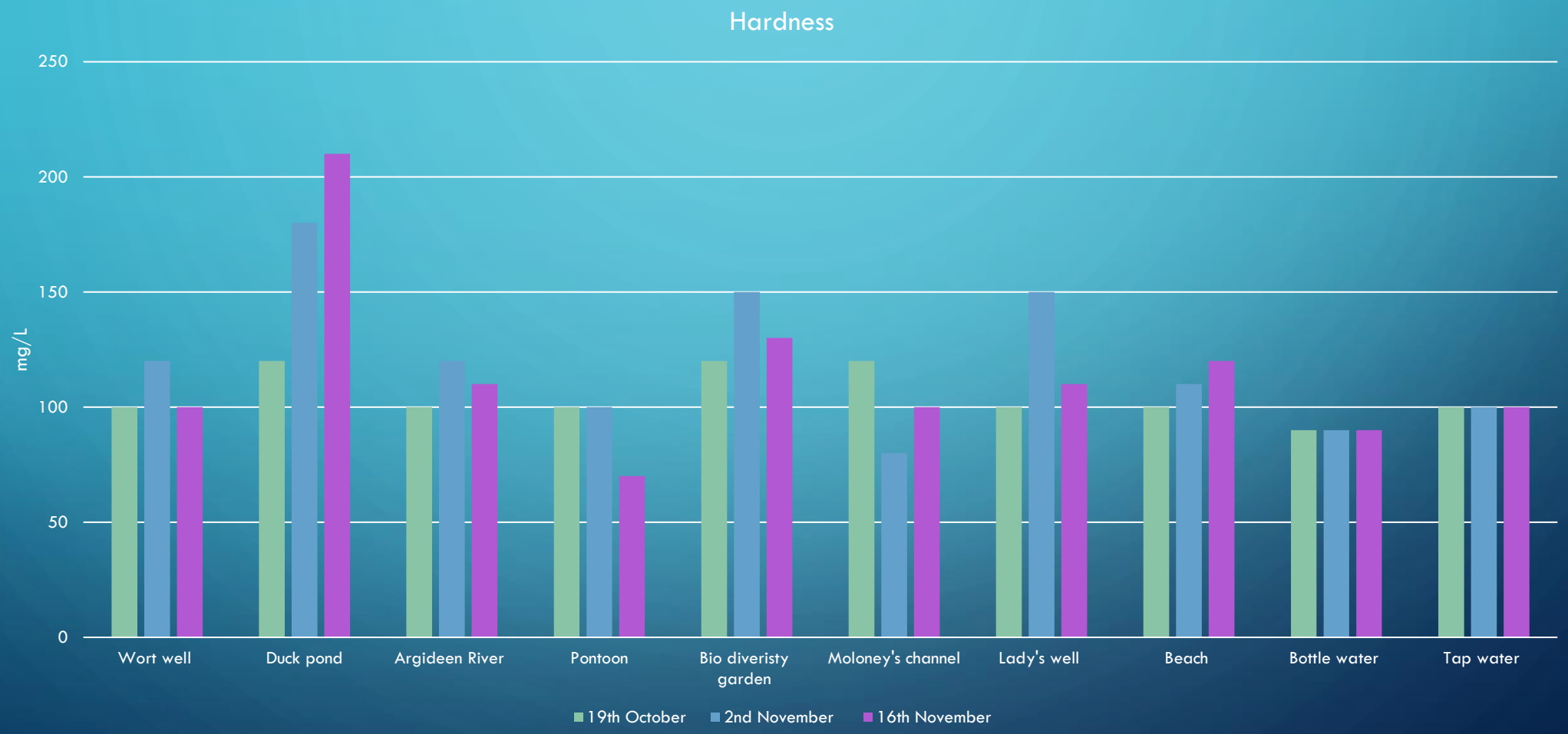
WATER QUALITY IN OUR LOCALITY

RESULTS

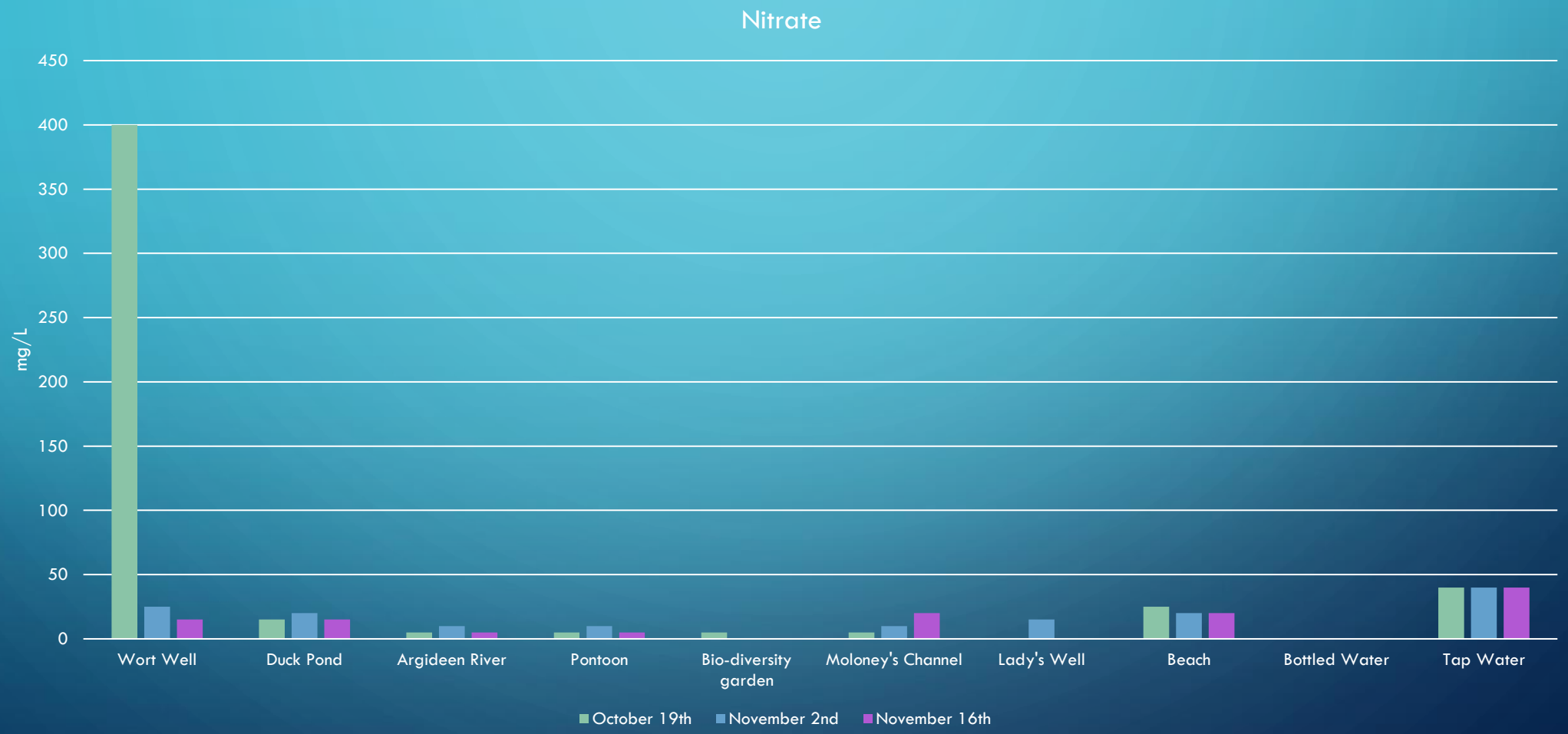
HARDNESS


Hardness
250
200
150
100
50
0
mg/L
Wort well
Duck pond
Argideen River
Pontoon
Bio diveristy garden
Moloney's channel
Lady's well
Beach
Bottle water
Tap water
19th October
2nd November
16th November

HARDNESS

- Scale: 0 ---------- 425 mg/L
- Measures the amount of Calcium and Magnesium in the water.
- Average: 120 – 170 mg/L
- Sea water is very hard due to dissolved salt.
- Hard water is cloudy / milky and harder to make suds.
- Most sites had average hardness.
- The highest level of hardness was in the pond after rain.
- The lowest level was in the Pontoon after rain.

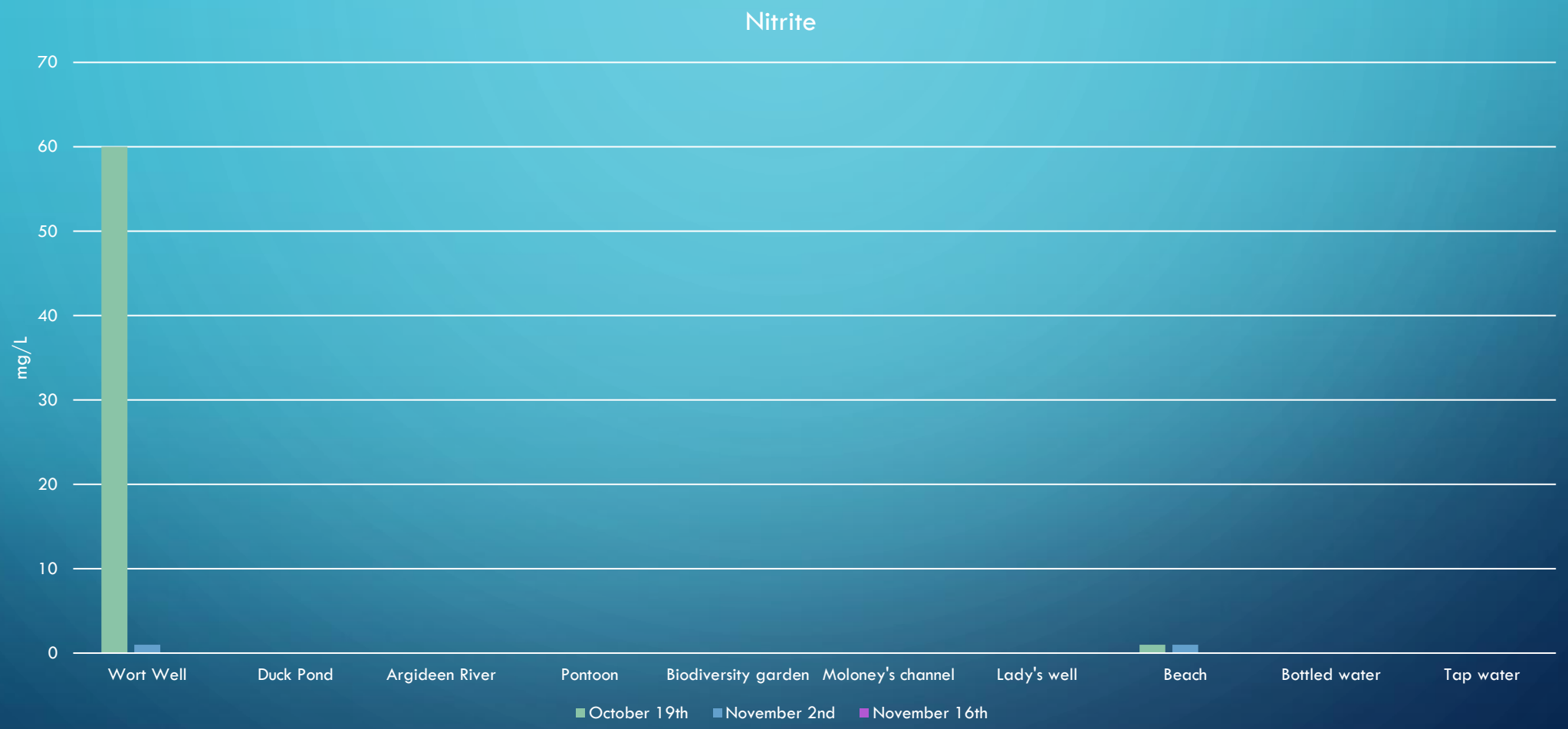
NITRATE


Nitrate
450
400
350
300
250
200
150
100
50
0
mg/L
Wort Well
Duck Pond
Argideen River
Pontoon
Bio-diversity garden
Moloney's Channel
Lady's Well
Beach
Bottled Water
Tap Water
October 19th
November 2nd
November 16th

NITRATE

- Scale: 0 ---------- 500 mg/L
- 50mg/L is considered safe.
- Compound formed naturally when Nitrogen combines with Oxygen.
- Salt or ester of Nitrate acid containing the group NO_3
- Can occur naturally in some foods, but can be added as a preservative to processed meat.
- High levels may cause colon cancer. Can dilate your blood vessels.
- All samples were found to be in the safe range.
- One exception was the Wort Well – this may be due to high tide or large rainfall after a storm.
- Bottled water contained no nitrate.
- Tap water had a reading of 40 mg/L.

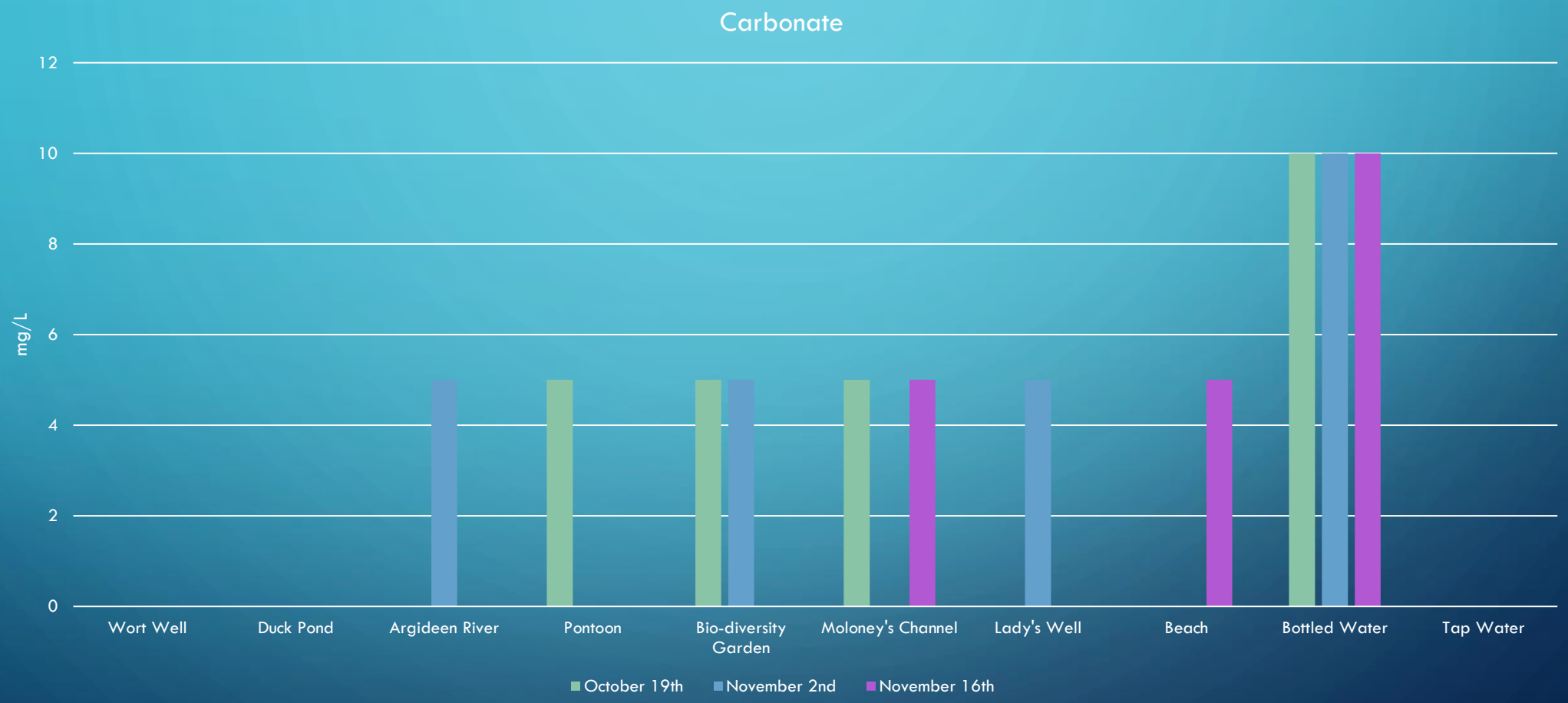
NITRITE


Nitrite
70
60
50
40
30
20
10
0
mg/L
Wort Well
Duck Pond
Argideen River
Pontoon
Biodiversity garden
Moloney's channel
Lady's well
Beach
Bottled water
Tap water
October 19th
November 2nd
November 16th

NITRITE

- Levels greater than 80 mg/L could be toxic.
- Pink fresh colour.
- Used as a preservative in food.
- Can come from fertilisers through run-off water and sewage.
- Chemical compound NO_2
- Very little, or no nitrite was found in all samples.
- The first sample from the Wort Well had a high nitrite reading on 60mg/L.

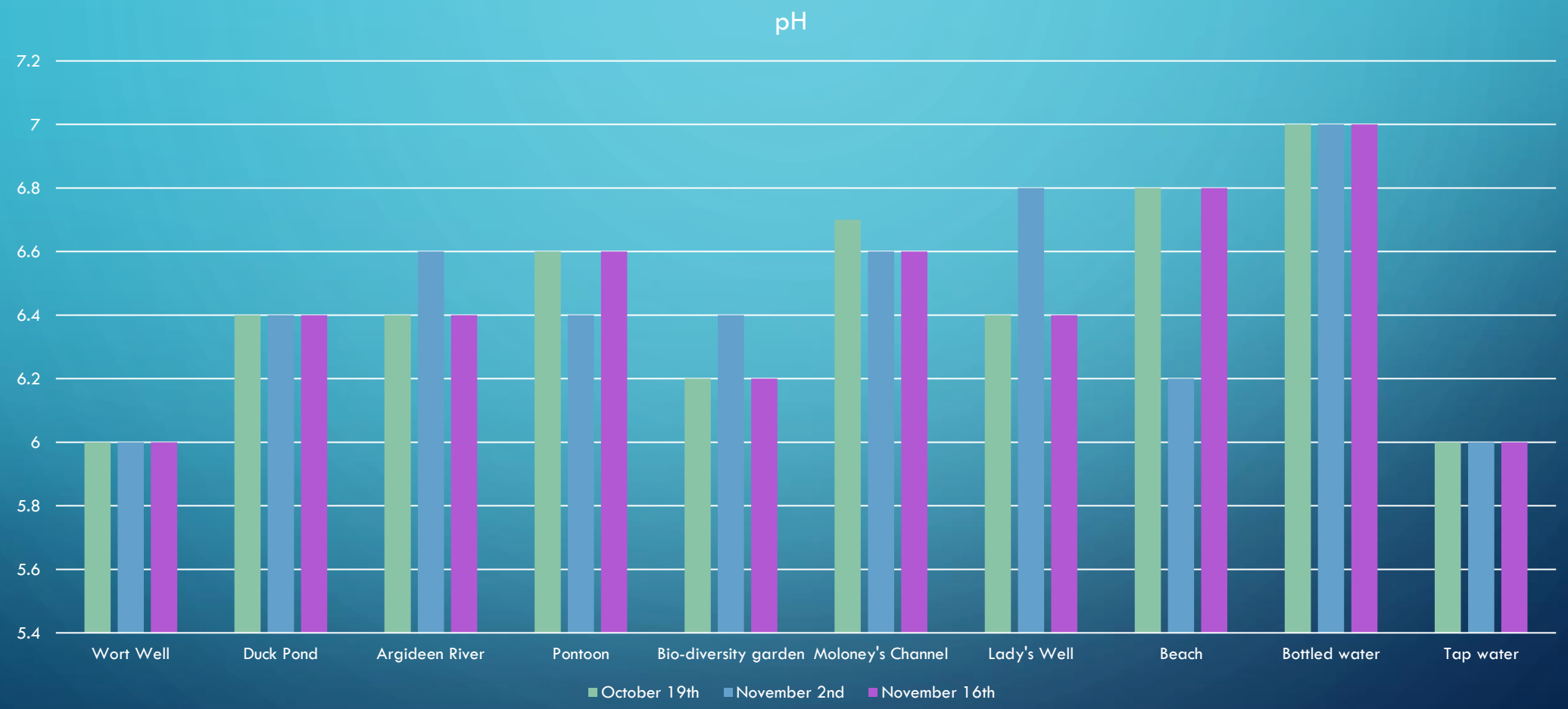
CARBONATE


Carbonate
12
10
8
6
4
2
0
mg/L
Wort Well
Duck Pond
Argideen River
Pontoon
Bio-diversity Garden
Moloney's Channel
Lady's Well
Beach
Bottled Water
Tap Water
October 19th
November 2nd
November 16th

CARBONATE

- Scale: 0 ---------- 240 mg/L
- Carbonate is not harmful in water.
- The amount of carbonate is related to hardness. The higher the level of carbonate, the harder the water.
- Hard: 201 – 300 mg/L; Moderately hard: 151 – 200 mg/L
- Slightly hard: 100 – 150 mg/L; Soft: less than 100 mg/L
- Bottled water had a level of 10 mg/L
- The Wort well and the Duck pond had no carbonate.

PH


pH
7.2
7
6.8
6.6
6.4
6.2
6
5.8
5.6
5.4
Wort Well
Duck Pond
Argideen River
Pontoon
Bio-diversity garden
Moloney's Channel
Lady's Well
Beach
Bottled water
Tap water
October 19th
November 2nd
November 16th

PH

- RANGE 0 ------ 14
- Acidic (0 – 6) – neutral (7) – base (8 – 14)
- The pH level in all sites changed very little.
- At the beach, Maloney's Channel and the Pontoon had slightly lower pH levels at low tide.
- Maloney's Channel and the Duck Pond's pH levels slightly increased after rain and storm.