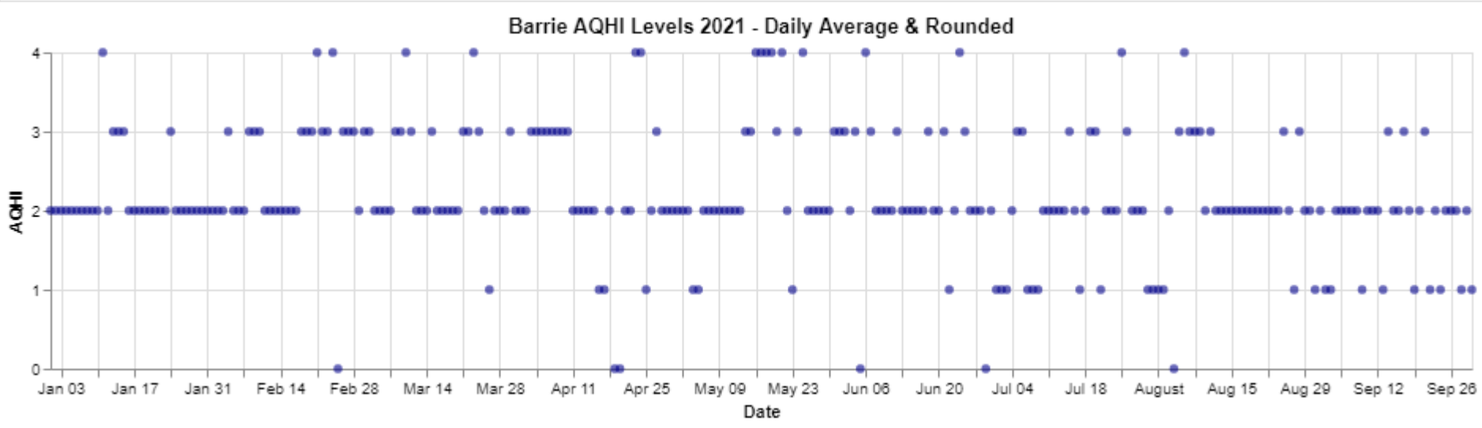
In [1]:

```
import pandas as pd
import altair as alt

#1 - Load webpage content
webpage = pd.read_html("http://www.airqualityontario.com/aqhi/search.php?stationid=47045&show_day=0&start_day=12&start_month=8&start_year=2021&submit_search=Get+AQHI+Readings")


#2 - Problem is that the first table is in the way, need second table (webpage[1]); drop unncessary columns
date_aqhi = webpage[1].fillna(0.0).drop(columns = ['Time','AQHI.1', 'Category'])

#3 - Convert'Date' and 'AQHI' column data to appropriate data type
date_aqhi['Date'] = pd.to_datetime(date_aqhi['Date'])
date_aqhi['AQHI'] = date_aqhi.AQHI.astype(int)
date_aqhi

#4 - Compile Date and AQHI columns into a chart
barrie_chart = alt.Chart(date_aqhi).mark_circle(color = "Darkblue", opacity=0.6).encode(
               x ='Date',
               y ='AQHI').properties(title = 'Barrie AQHI Levels 2021 - Daily Average & Rounded', width = 900, height = 200)
barrie_chart

#5 - Calculate total AQHI levels as observed for each availible day
#count = date_aqhi['AQHI'].value_counts()
#count
```

Out[1]:

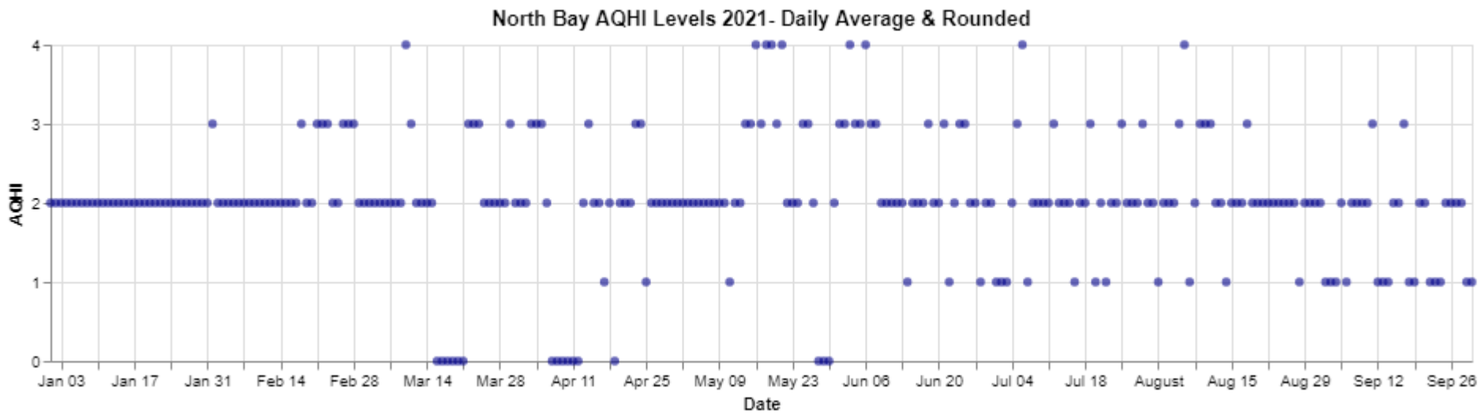


In [2]:

```
#1 - Load webpage content
webpage = pd.read_html("http://www.airqualityontario.com/aqhi/search.php?stationid=75010&start_day=12&start_month=8&start_year=2021&show_day=0&submit_station=Choose+Station")

#2 - Problem is that the first table is in the way, need second table (webpage[1]); drop unncessary columns
date_aqhi = webpage[1].fillna(0.0).drop(columns = ['Time','AQHI.1', 'Category'])

#3 - Convert'Date' and 'AQHI' column data to appropriate data type
date_aqhi['Date'] = pd.to_datetime(date_aqhi['Date'])
date_aqhi['AQHI'] = date_aqhi.AQHI.astype(int)
date_aqhi

#4 - Compile Date and AQHI columns into a chart
northbay_chart = alt.Chart(date_aqhi).mark_circle(color = "Darkblue", opacity=0.6).encode(
               x ='Date',
               y ='AQHI').properties(title = 'North Bay AQHI Levels 2021- Daily Average & Rounded', width = 900, height = 200)
```

```
northbay_chart

#5 - Calculate total AQHI levels as observed for each availible day
#count = date_aqhi['AQHI'].value_counts()
#count
```

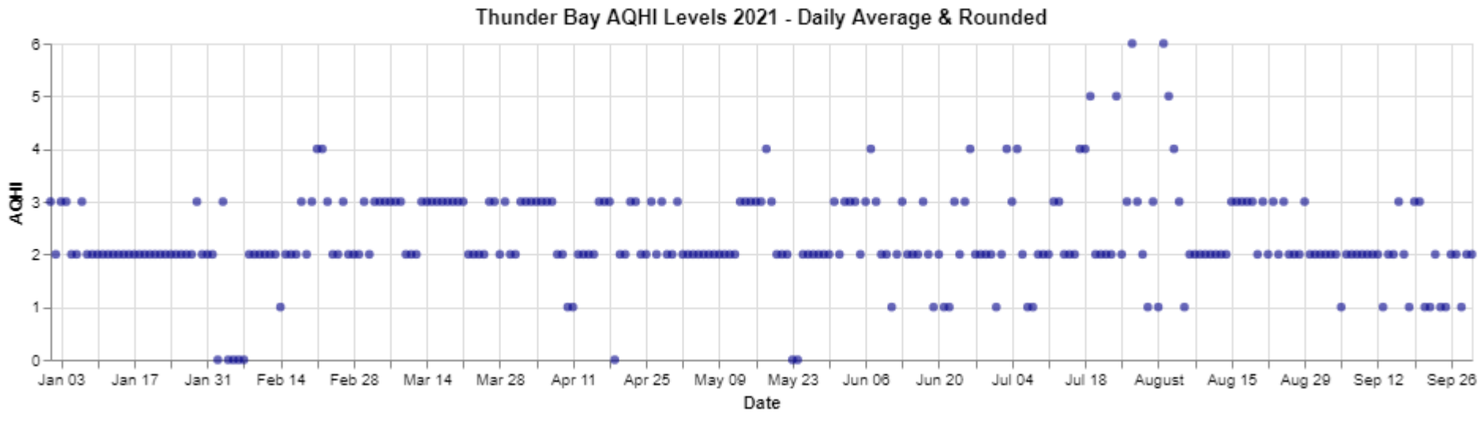
Out[2]:



In [3]:

```
#1 - load webpage content
webpage = pd.read_html("http://www.airqualityontario.com/aqhi/search.php?stationid=63203&start_day=12&start_month=8&start_year=2021&show_day=0&submit_station=Choose+Station")

#2 - Problem is that the first table is in the way, need second table (webpage[1]); drop unncessary columns
date_aqhi = webpage[1].fillna(0.0).drop(columns = ['Time','AQHI.1', 'Category'])

#3 - Convert'Date' and 'AQHI' column data to appropriate data type
date_aqhi['Date'] = pd.to_datetime(date_aqhi['Date'])
date_aqhi['AQHI'] = date_aqhi.AQHI.astype(int)
date_aqhi

#4 - Compile Date and AQHI columns into a chart
thunderbay_chart = alt.Chart(date_aqhi).mark_circle(color = "Darkblue", opacity=0.6).encode(
               x ='Date',
               y ='AQHI').properties(title = 'Thunder Bay AQHI Levels 2021 - Daily Average & Rounded', width = 900, height = 200)
thunderbay_chart

#5 - Calculate total AQHI levels as observed for each availible day
#count = date_aqhi['AQHI'].value_counts()
#count
```

Out[3]:


Thunder Bay AQHI Levels 2021 - Daily Average & Rounded
AQHI
0
1
2
3
4
5
6
Jan 03
Jan 17
Jan 31
Feb 14
Feb 28
Mar 14
Mar 28
Apr 11
Apr 25
May 09
May 23
Jun 06
Jun 20
Jul 04
Jul 18
August
Aug 15
Aug 29
Sep 12
Sep 26
Date

In [ ]: