

A map of Bengaluru, India, showing the locations of various sewage treatment plants. The map features major roads like NICE Road, NH75, NH44, NH27, SH85, and SH35. The city is divided into areas like Bengaluru and Bengaluru South. A red banner at the top contains the ActionAid logo and name. A green banner at the bottom contains the title of the study. Colored dots (green, purple, cyan) are scattered across the map, representing the locations of the sewage treatment plants. The airport is also marked with a blue airplane icon.

act:onaid

ActionAid Association (India)

A STUDY ON
**ONLINE MONITORING OF
SEWAGE TREATMENT PLANTS
OF BENGALURU**

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A study on Online monitoring of sewage treatment plants of Bengaluru

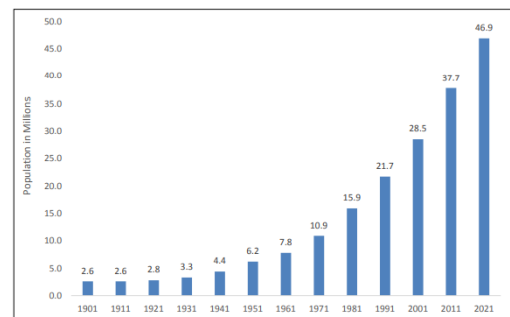
1. About ActionAid Association:

ActionAid Association is an organisation working for social and ecological justice. ActionAid has been engaged with the most marginalised communities in India. Together with supporters, communities, institutions and governments, we strive for equality, fraternity and liberty of all. ActionAid Association works in 24 states and two union territories, with several partners and allied organizations.

2. Introduction:

One of the most valuable resources in the world is water. Growth of population and massive industrialization has led to maximum use of the most valuable resource while the availability of fresh water is restricted. Approximately 80% of the water used is turned to sewage.

However, although nature has an exceptional ability to deal with limited amounts of toxins, there is a need to clean the billion gallons of garbage and waste material generated daily by homes, factories, and corporate institutions before returning it to the environment. One such alternative is wastewater/sewage treatment, in which several procedures are planned and run to replicate natural treatment processes in order to lower pollution load to a level that nature can tolerate.



In order to meet the water demand, water is tapped for domestic and industrial uses from rivers, streams, wells and lakes and groundwater resources are also explored. Approximately 80% of the water supplied for domestic uses, comes out as wastewater. In different regions of urban centers, wastewater is let out untreated due to the lack/unavailability of sewerage network and discharged into the natural drainage system causing pollution in downstream areas.

3. Urbanisation & Wastewater Treatment in India:

Decadal assessment revealed an increasing trend in urban population, sewage generation and treatment capacity as depicted in figure 1.1. Since 1971, the urban population of India increased 3 times thereby impacting sewage generation which also increased at a rapid pace. However, the rate of development of treatment facilities happened to be much slower as compared to sewage generation and urban growth. The sewage generation increased from 7,067 MLD in 1978 -79 to 62,000 MLD in 2014-15 whereas treatment capacity augmented from 2,758 MLD to 23,277 MLD only.

Presently, STPs are designed on conventional technologies which can treat the wastewater to meet the non-potable requirement. Sequential Batch Reactor (SBR) and Activated Sludge Process (ASP) are the prevalent and adopted technologies all across the country. Oxidation Ponds are used for treatment of sewage in the areas especially where adequate lands are available for their installation.

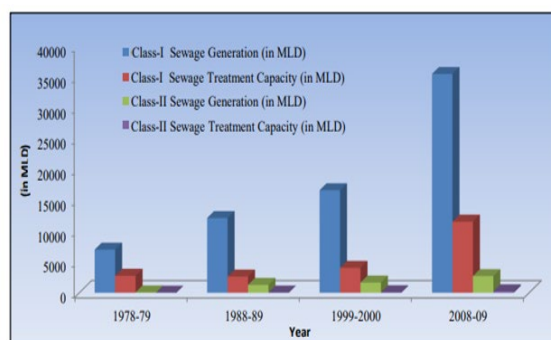


Figure 2 Decadal trend of sewage generation and treatment capacity in Class-I cities and Class-II towns.

4. Sewage Treatment Plants(STP) in India:

As per Government records- December 2021, India generates a sewage of 72,368 MLD of which 26,869 MLD is treated, while Karnataka generates a sewage of 4,458 MLD and treats 1,922 MLD through its STPs.

	Sewage Generation	Installed Capacity	Operational Capacity	No. of STPs
India	72,368 MLD	31,841 MLD	26,869 MLD	1,469
Karnataka	4,458 MLD	2,712 MLD	1,922 MLD	140

Figure 3 Source: <https://pib.gov.in/Pressreleaseshare.aspx?PRID=1779799>,

5. Objectives of the Study:

- Analyze the performance of Online monitoring of Sewage Treatment Plant in Bengaluru.
- To improve Sewage Treatment Plants' online monitoring systems using the research's findings.

6. Standards for Wastewater Treatment:

Parameter standards issued by Karnataka State Pollution Control Board (KSPCB) as per the office Memorandum No. KSPCB/SEO-INFRA/STP-GUIDELINES/2020_21/5446 dated 1st March 2021 was referred which is as below;

Sr. No.	Parameter	Limits
1	Chemical Oxygen Demand (COD)	<50mg/l
2	Biochemical Oxygen Demand (BOD)	<10mg/l
3	pH	6.5-8.5
4	Suspended Solids	<10mg/l
5	Ammonical Nitrogen	<5mg/l
6	Total Nitrogen	<10mg/l
7	Faecal Coliform	<100 MPN/100 ml

Figure 4 Reference: <https://kspcb.karnataka.gov.in/sites/default/files/inline-files/new%20stp%20G.pdf>

7. **Time Period:** 45 days (1st Nov. 2022 – 15th Dec. 2022)

8. **Total number of STPs:** 31 STPs with total treatment capacity of 1,042.5 MLD

9. **Data Source:** Bangalore Water Supply & Sewerage Board (BWSSB) monitoring dashboard (<http://stpp.bwssb.gov.in/default.aspx>)

10. Methodology:

The data was available at the BWSSB website for each of the STPs, and for convenience of calculation the last 45 days data was downloaded. Online monitoring captures water quality data once in every five minutes, in a day it captures data for 288 times for each parameter which calculated for a period of 45 days across 6 parameters amounts to 77,760 data points for an STP. 24,10,560 data points for 31 STPs were consolidated and summarized as daily average/min/max values for each parameter & STP and further categorized as Wrong/Missing Data & Limits breaching Data for each parameter which was further consolidated as Average days & Maximum days across 6 parameters for each STP.

11. Definitions:

- Wrong/missing data:
 - Parameter data is not configured (NC) or
 - No variation within the day (maximum value = minimum value) & barely no variation from previous / next day (avg value of day - avg value of previous / next day < 0.01)
 - Dashboard often has constant data where there is no variation for the entire day and from the previous/next day as well. This is clearly an error in the monitoring equipment/reporting error and is considered as “wrong data”.
- Limits breaching:
 - Source of min & max limits: BWSSB monitoring dashboard
 - Daily average parameter value is less than Min limit OR greater than Max. limit

Sr. No.	Parameter	Min limit	Max limit
1	Chemical Oxygen Demand (COD)	0	50 mg/l
2	Biochemical Oxygen Demand (BOD)	0	10 mg/l
3	pH	6.5	9
4	Total Suspended Solids (TSS)	0	20 mg/l
5	Ammonical Nitrogen	0	5 ppm
6	Total Nitrogen	0	10 ppm

- Avg wrong/missing data days: Take the total no. of days over the time period for each parameter with wrong/missing data as defined above. Take the mean/average across all 6 parameters.
- Avg limits breaching days: Take the total no. of days over the time period for each parameter with limits breaching as defined above. Take the mean/average across all 6 parameters.
- Max wrong/missing data days: Take the total no. of days over the time period for each parameter with wrong/missing data as defined above. Take the maximum across all 6 parameters.
- Max limits breaching days: Take the total no. of days over the time period for each parameter with limits breaching as defined above. Take the maximum across all 6 parameters.

12. Findings:

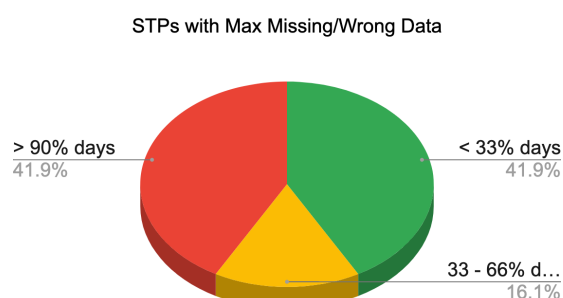
a. Discrepancy in limits set by BWSSB:

The limits set by KPSCB are different from those set by BWSSB for online monitoring for some parameters.

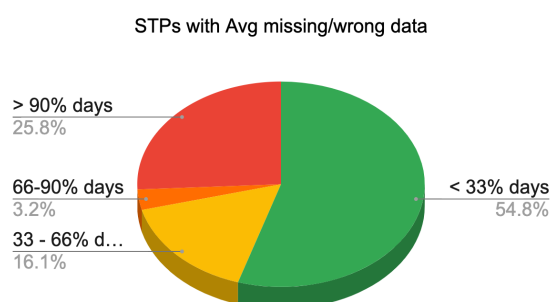
- TSS limit is <10 mg/l as prescribed by KPSCB, but BWSSB has set the limit to <20 mg/l
- pH limit is 6.5-8.5 as prescribed by KPSCB, but BWSSB has set the limit to 6.5-9
- Fecal / Total Coliform limits have been prescribed by KPSCB but this parameter is missing from BWSSB monitoring dashboard

b. Wrong/Missing Data:

No. of STPs with maximum missing / wrong data	
< 33% days	13
33 - 66% days	5
66-90% days	0
> 90% days	13



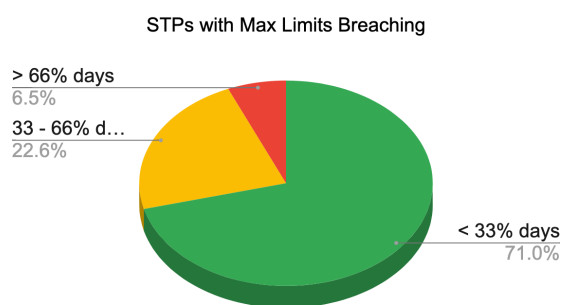
No. of STPs with average missing / wrong data	
< 33% days	17
33 - 66% days	5
66-90% days	1
> 90% days	8



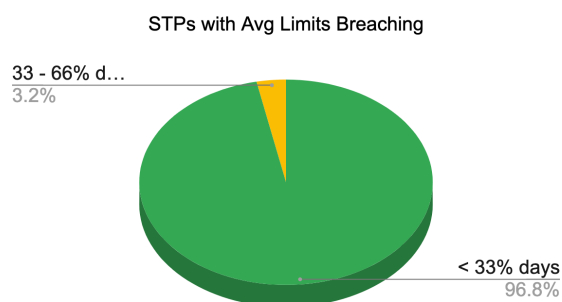
- 13 STPs were found with wrong/missing data for at least 1 parameter for greater than 90% days.
- 8 STPs were found with average wrong/missing data greater than 90% days across all parameters.

c. Limits breaching:

No. of STPs with max limits breaching	
< 33% days	22
33 - 66% days	7
> 66% days	2



No. of STPs with avg limits breaching	
< 33% days	30
33 - 66% days	1
> 66% days	0



- There are only 2 STPs with limits breaching > 66% days for at least 1 parameter.
- There is only 1 STP with avg limits breaching > 33% days (Jakkur) across all parameters.

d. STP Rankings:

The below table shows a comparative performance of STPs considering average wrong/missing days and limits breaching days. “Score” is an ad hoc metric (Avg wrong/missing data days + Avg limits breaching days) created to help quantize & compare the overall monitoring quality of the STPs. We see that in most cases Avg wrong/missing data days is much greater than Avg limits breaching days, which implies that the Score reflects more of the wrong/missing data than limits breaching instances as wrong/missing data is the bigger problem with most STPs. Lower Score implies correct data & parameters within limits on average, so those are the better working STPs like: Doddabele 40, Cubbon Park, Yelemallappa Chetti, etc. Max possible Score is 45 & towards the bottom of the table, the score reaches the max possible value because those STPs are **not configured** like: K&C Valley 218, Hebbal, Rajacanal(o), etc

Rank	STP	Max wrong/missing data days	Max limits breaching days	Avg wrong/missing data days	Avg limits breaching days	Score
1	Doddabele 40	4	0	1.17	0	1.17
2	Cubbon Park	4	0	3.17	0	3.17
3	Yelemallappa Chetti	7	0	7	0	7

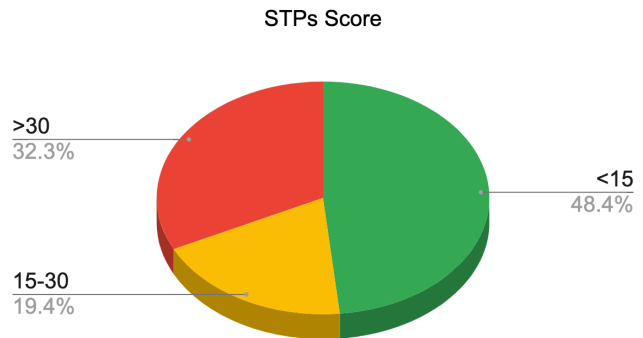
4	Mailasandra Ph-I	7	1	7	0.33	7.33
5	Kempambudhi	12	0	7.83	0	7.83
5	Rajacanal(n)	12	0	7.83	0	7.83
7	Agaram	8	2	7.5	0.5	8
8	Chikkabanavara	17	0	8.67	0	8.67
9	K&C Valley 60	17	4	8.67	0.67	9.33
10	V.Valley	7	15	7	3.5	10.5
10	Lalbagh	8	18	7.5	3	10.5
12	K.R.Puram	17	6	9	1.67	10.67
12	Hulimavu	13	12	10.33	0.33	10.67
14	Nagasandra(n)	7	24	7	7.17	14.17
15	Chickbeggur	45	14	11.5	3	14.5
16	Nagasandra(o)	11	27	8.83	9.33	18.17
17	Horamavu Agara	20	15	17.33	2.5	19.83
18	Kadabeesanahalli	12	26	12	8	20
19	Kadugodi	42	25	16.5	5	21.5
20	Doddabele 20	27	0	22.33	0	22.33
21	Sarakki	45	42	17	8.17	25.17
22	Mallathahalli	45	0	37.5	0	37.5
23	Jakkur	45	34	22.83	17	39.83
24	Bellandur Amani kere	42	0	41.17	0	41.17
25	Halasuru	43	2	42	0.67	42.67
26	Yelahanka TTP	45	0	43.67	0	43.67
27	Kengeri	45	0	45	0	45
27	K&C Valley 30	45	0	45	0	45
27	Rajacanal(o)	45	0	45	0	45
27	Hebbal	45	0	45	0	45
27	K&C Valley 218	45	0	45	0	45

Table : Rank STPs by “Score” which is Avg wrong/missing data days + Avg limits breaching days.

Highlighted cells: Any cell value ≥ 15 days

- 5 of 31 STPs, namely – Kengeri, K&C Valley-30 & 218, Rajacanal(o), Hebbal have not configured any parameters for monitoring, hence they have a max possible score of 45.
- 3 STPs, namely – Yelahanka TTP, Halasuru and Bellandur Amani kere have marginal data for monitoring as we can see they have very high values for Avg wrong/missing data days (> 40 days).
- Jakkur has highest Avg limits breaching days by far (17 days) which means that limits were breaching for multiple parameters (COD & BOD).
- Sarakki has highest Max limits breaching days of 42 days (> 90% days pH was breaching limits).

Score (Avg wrong/missing data days + Avg limits breaching days)	
<15 (< 33% days)	15
15-30 (33 - 66% days)	6
>30 (> 66% days)	10



- **10 STPs have either wrong/missing data or limits branching for > 66% days on avg across all parameters (Score > 30)**
- 6 STPs have either wrong/missing data or limits branching for 33% - 66% days on avg across all parameters (15 < Score < 30)
- 15 STPs have either wrong/missing data or limits branching for <33% days on avg across all parameters (Score < 15)

e. Parameter-wise performance of STPs:

In this section we look at wrong/missing data & limit breaches separately for each parameter and a consolidated average of all parameters together.

Criteria for COD/BOD/pH/TSS/Ammonical Nitrogen/Total Nitrogen:

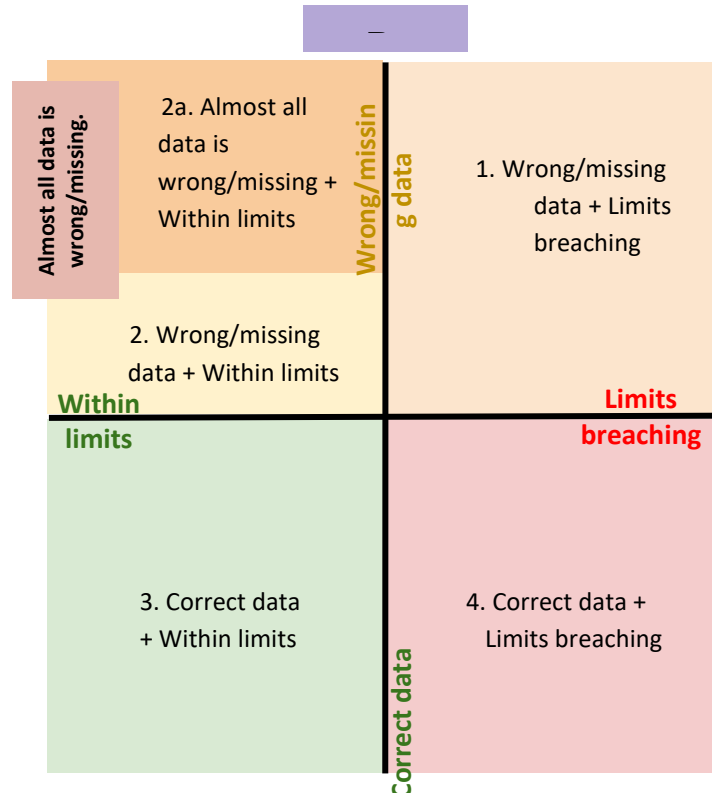
- Limits Breaching: Parameter breaching limits > **33% days** (> 15 days)
- Wrong/missing data: Parameter has wrong/missing data > **33% days** (> 15 days).
 - Almost all data is wrong/missing: Wrong/missing data days > **90% days** (> 40.5 days)

Criteria for All Parameters:

- Limits Breaching: At least 1 parameter is breaching limits > **33% days** (> 15 days)
- Wrong/missing data: At least 1 parameter has wrong/missing data > **33% days** (> 15 days)
 - Almost all data is wrong/missing: Avg wrong/missing data days > **90% days** (> 40.5 days)

STPs are divided into 4 quadrants (+1 subsection):

1. Wrong/missing data + Limits breaching
2. Wrong/missing data + Within limits
 - a. Subsection - Almost all data is wrong/missing + Within limits
3. Correct data + Within limits
4. Correct data + Limits breaching



e.1. Chemical Oxygen Demand (COD)

COD	
<p style="background-color: #d9ead3; padding: 5px; display: inline-block;">Almost all data is wrong/missing.</p> <ul style="list-style-type: none"> Hebbal Rajacanal(o) Yelahanka TTP K&C Valley 218 Bellandur Amani kere K&C Valley 30 Halasuru Kengeri Mallathahalli 	<p style="background-color: #f4cccc; padding: 5px; display: inline-block;">Wrong/missing data</p> <p style="text-align: center;">Kadugodi</p>
<p style="background-color: #d9ead3; padding: 5px; display: inline-block;">Within limits</p> <ul style="list-style-type: none"> Horamavu Agara Doddabele 20 	<p style="background-color: #f4cccc; padding: 5px; display: inline-block;">Limits breaching</p>
<ul style="list-style-type: none"> Rajacanal(n) K&C Valley 60 Agaram K.R.Puram Yelemallappa Chetti Hulimavu Sarakki Chickbeggur Cubbon Park Lalbagh Mailasandra Ph-I V.Valley Doddabele 40 Chikkabanavara Kempambudhi 	<p style="background-color: #f4cccc; padding: 5px; display: inline-block;">Correct data</p> <ul style="list-style-type: none"> Jakkur Kadabeesanahalli Nagasandra(o) Nagasandra(n)

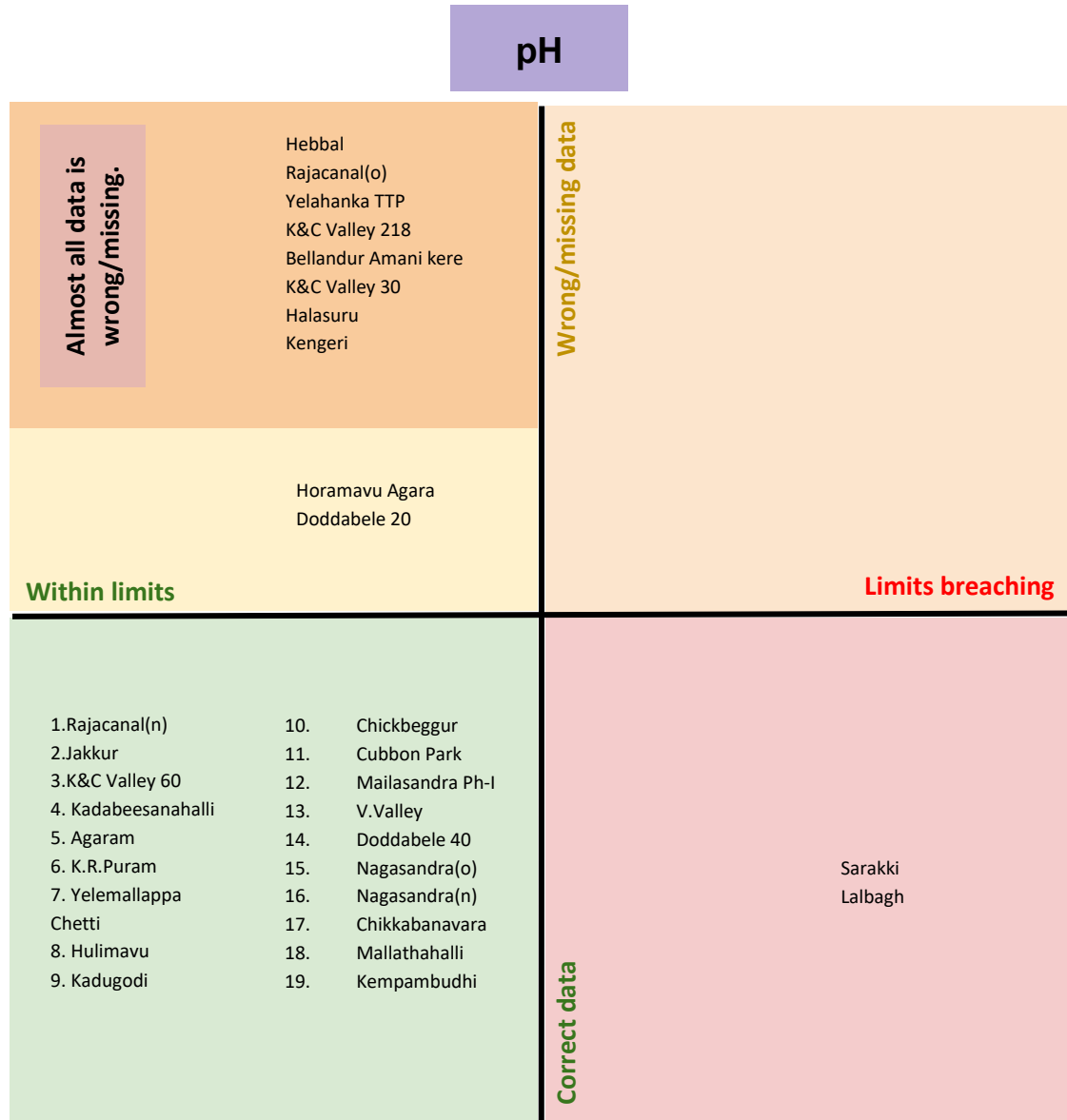
- 12 STPs have wrong/missing data > 15 days
 - Out of these, 9 STPs have wrong/missing data on almost all (> 90%) days
- 5 STPs have have limit beaches > 15 days
- 1 STP (Kadugodi) has both wrong/missing data & limit breaches
- 15 STPs have correct data & within limits

e.2. Biochemical Oxygen Demand:

BOD	
<p style="background-color: #d9ead3; padding: 5px; display: inline-block;">Almost all data is wrong/missing.</p> <ul style="list-style-type: none"> Hebbal Rajacanal(o) Yelahanka TTP K&C Valley 218 Bellandur Amani kere K&C Valley 30 Kadugodi Halasuru Kengeri Mallathahalli 	<p style="color: #800000; font-weight: bold;">Limits breaching</p>
<p style="color: #006633; font-weight: bold;">Within limits</p> <ul style="list-style-type: none"> Horamavu Agara K&C Valley 60 K.R.Puram Doddabele 20 	
<ul style="list-style-type: none"> Rajacanal(n) Agaram Yelemallappa Chetti Hulimavu Sarakki Chickbeggur Cubbon Park Lalbagh Mailasandra Ph-I V.Valley Doddabele 40 Nagasandra(o) Nagasandra(n) Chikkabanavara Kempambudhi 	<p style="color: #800000; font-weight: bold;">Correct data</p> <ul style="list-style-type: none"> Jakkur Kadabeesanahalli

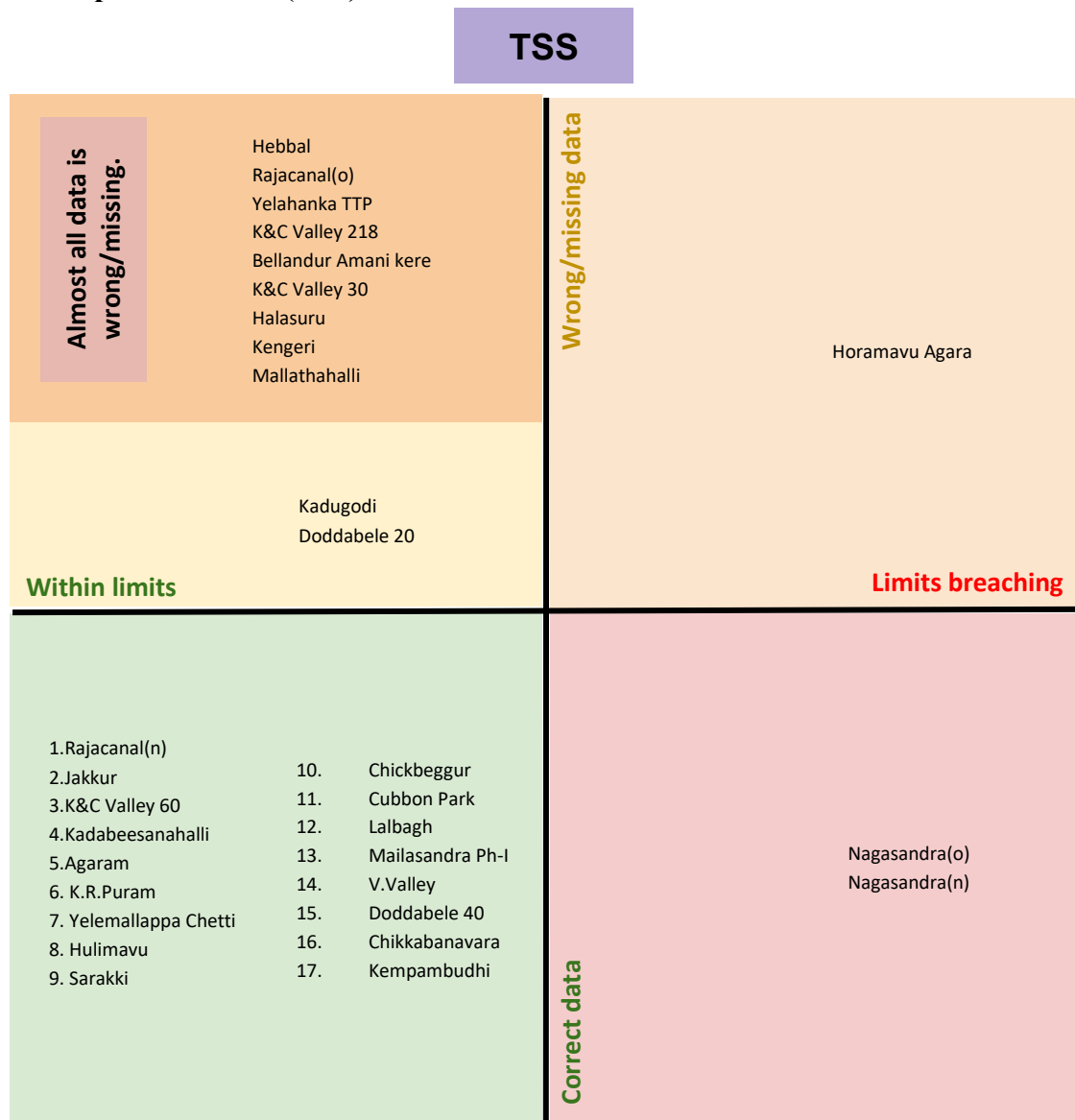
- 14 STPs have wrong/missing data > 15 days
 - Out of these, 10 STPs have wrong/missing data on almost all (> 90%) days
- 2 STPs have have limit beaches > 15 days
- 15 STPs have correct data & within limits.

e.3. Potential Hydrogen (pH)



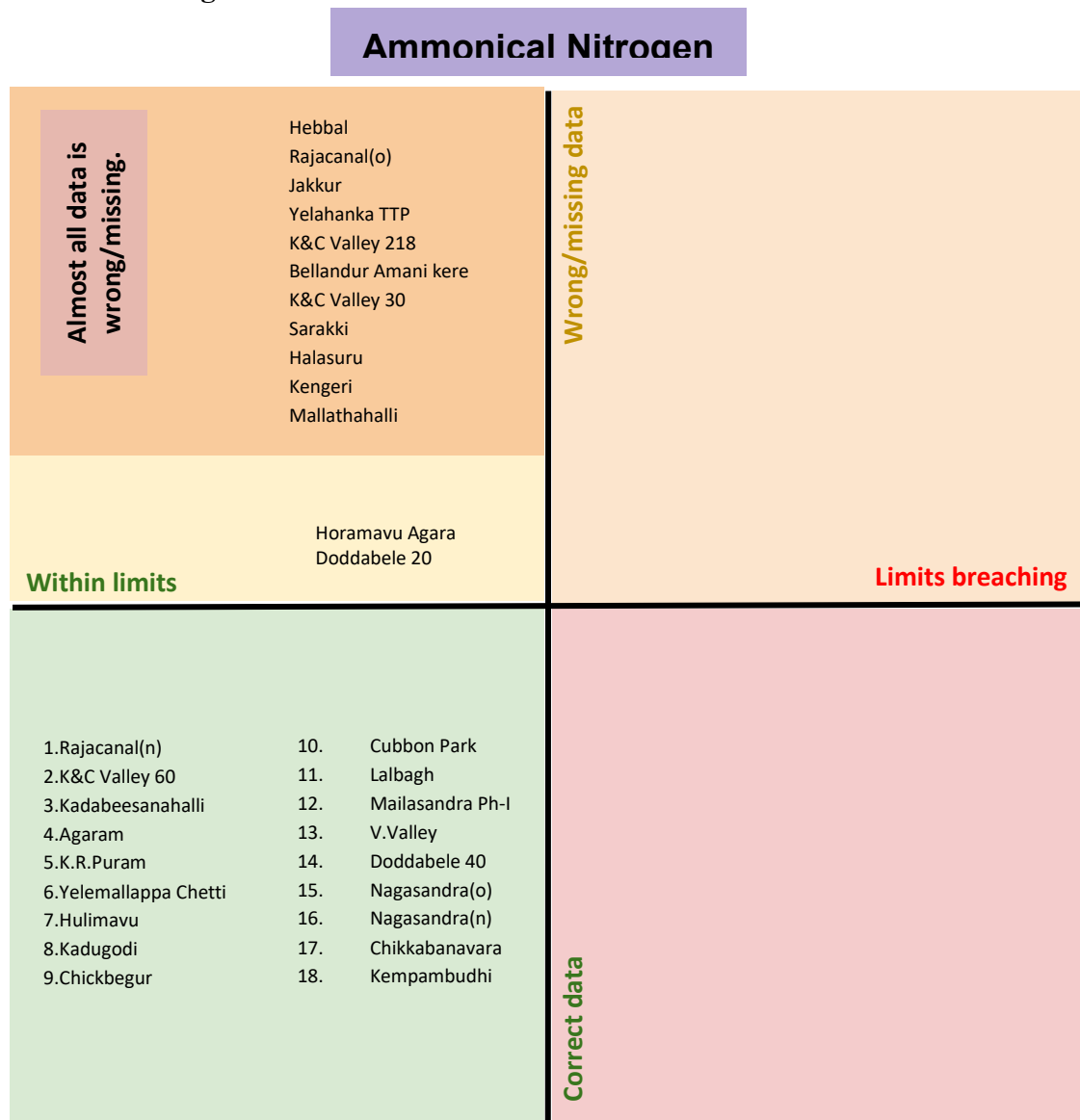
- 10 STPs have wrong/missing data > 15 days
 - Out of these, 8 STPs have wrong/missing data on almost all (> 90%) days
- 2 STPs has have limit beaches > 15 days.
- 19 STPs have correct data & within limits.

e.4. Total Suspended Solids (TSS):



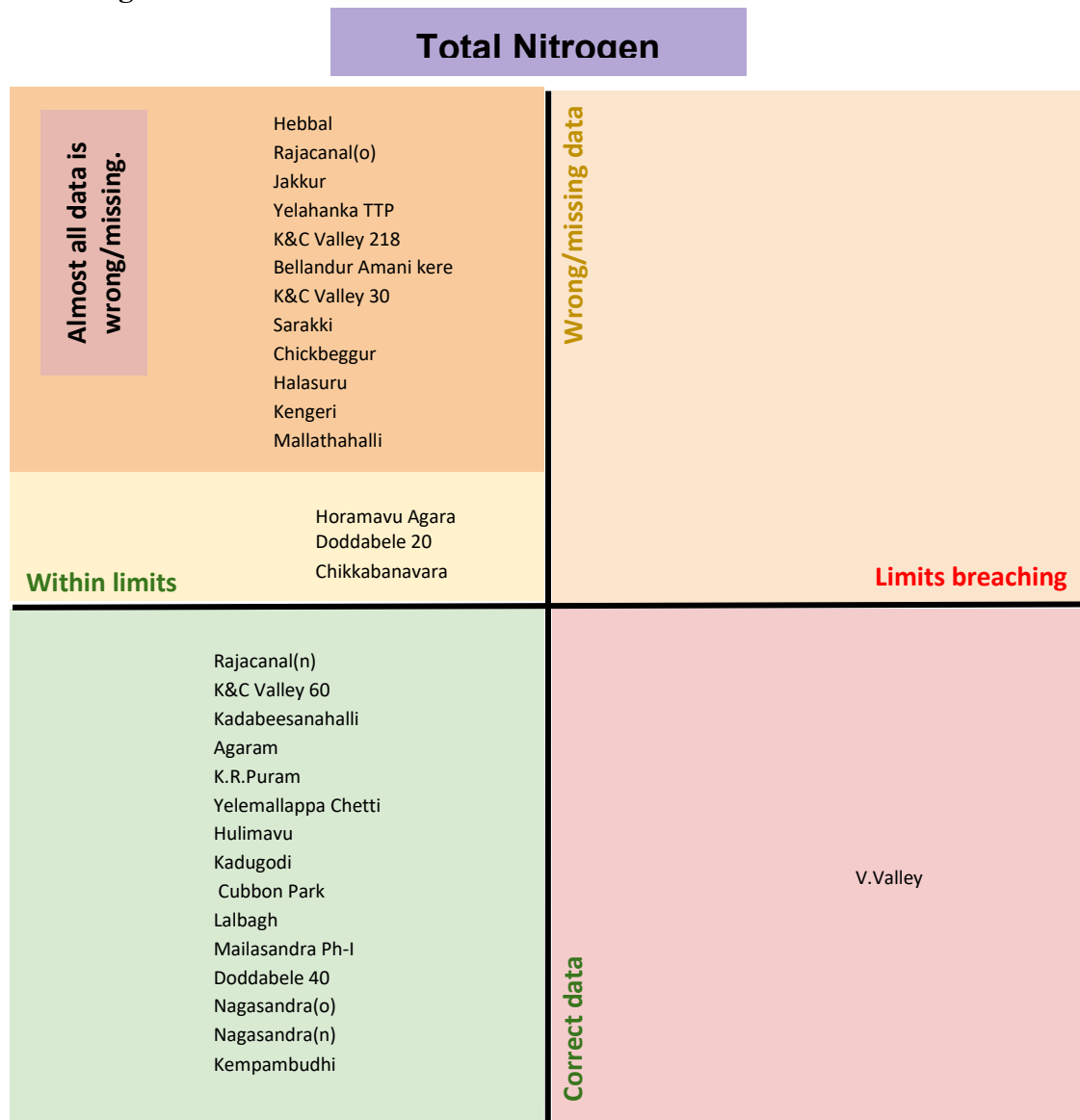
- 12 STPs have wrong/missing data > 15 days
 - Out of these, 9 STPs have wrong/missing data on almost all (> 90%) days
- 3 STPs have limit beaches > 15 days.
- 1 STP (Horamavu Agara) has both wrong/missing data & limit breaches.
- 17 STPs have correct data & within limits.

e.5. Ammonical Nitrogen:



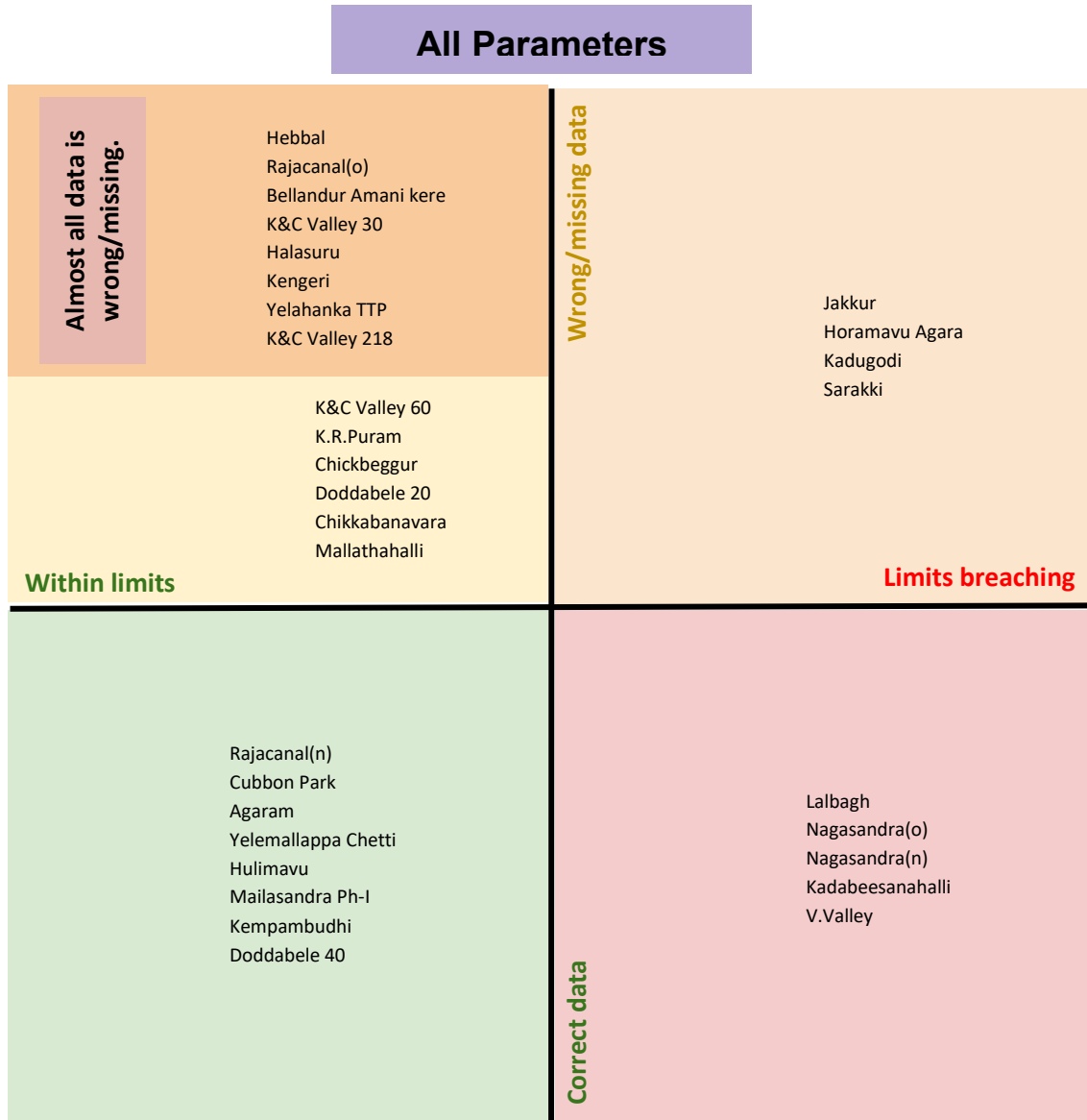
- 13 STPs have wrong/missing data > 15 days
 - Out of these, 11 STPs have wrong/missing data on almost all (> 90%) days
- 0 STPs have limit beaches > 15 days
- 18 STPs have correct data & within limits.

e.6. Total Nitrogen:



- 15 STPs have wrong/missing data > 15 days
 - Out of these, 12 STPs have wrong/missing data on almost all (> 90%) days
- 1 STP has have limit beaches > 15 days.
- 15 STPs have correct data & within limits.

e.8. All Parameters:



Observations:

- Parameters:
 - Most **limit breaches** are for **COD**
 - 5 STPs have COD limit breaches > 15 days
 - Most **wrong/missing data** is for **Total Nitrogen**
 - 15 STPs have wrong/missing data for Total Nitrogen > 15 days
 - **Best maintained** parameter in STPs is **pH**
 - 19 STPs have wrong/missing data & limit breaches < 15 days
- STPs:
 - 18 STPs have wrong/missing data for at least 1 parameter > 15 days
 - Out of these, 8 STPs have wrong/missing data for all parameters on almost all (> 90%) days
 - 9 STPs have have limit beaches for at least 1 parameter > 15 days
 - 4 STPs have both wrong/missing data & limit breaches for at least 1 parameter
 - 8 STPs have all parameters good monitoring & within limits

13. Jakkur Case Study:

Jakkur						
	avg_COD	avg_BOD	avg_pH	avg_TSS	avg_Ammonical Nitrogen	avg_Total Nitrogen
Date						
2022-11-01	287.63	44.82	8.97	0.90	nan	nan
2022-11-02	289.84	40.42	8.97	0.91	nan	nan
2022-11-03	287.92	39.58	8.97	0.90	nan	nan
2022-11-04	282.13	42.33	8.97	0.90	nan	nan
2022-11-05	277.03	45.16	8.97	0.90	nan	nan
2022-11-06	281.74	47.43	8.97	0.90	nan	nan
2022-11-07	282.61	48.94	8.97	0.90	nan	nan
2022-11-08	285.23	48.71	8.97	0.90	nan	nan
2022-11-09	283.80	49.12	8.97	0.90	nan	nan
2022-11-10	284.98	48.40	8.97	0.90	nan	nan
2022-11-11	288.10	46.66	8.97	0.90	nan	nan
2022-11-12	291.35	45.21	8.97	0.91	nan	nan
2022-11-13	287.36	46.90	8.97	0.91	nan	nan
2022-11-14	285.52	47.54	8.97	0.90	nan	nan
2022-11-15	288.75	45.15	8.97	0.90	nan	nan
2022-11-16	275.97	42.09	8.96	0.90	nan	nan
2022-11-17	254.12	37.08	8.97	0.90	nan	nan
2022-11-18	259.79	37.75	8.97	0.91	nan	nan
2022-11-19	262.90	37.98	8.97	0.91	nan	nan
2022-11-20	266.92	38.10	8.97	0.91	nan	nan
2022-11-21	271.74	38.20	8.97	0.91	nan	nan
2022-11-22	272.03	38.27	8.97	0.90	nan	nan
2022-11-23	270.88	38.34	8.97	0.90	nan	nan
2022-11-24	269.64	38.29	8.97	0.90	nan	nan
2022-11-25	269.64	38.23	8.97	0.90	nan	nan
2022-11-26	269.63	37.76	8.97	0.90	nan	nan
2022-11-27	269.68	37.82	8.96	0.90	nan	nan
2022-11-28	269.28	37.72	8.96	0.90	nan	nan
2022-11-29	269.93	37.77	8.96	0.90	nan	nan
2022-11-30	273.10	37.83	8.97	0.91	nan	nan
2022-12-01	276.18	37.90	8.97	0.90	nan	nan
2022-12-02	277.48	38.03	8.97	0.91	nan	nan
2022-12-03	276.54	37.92	8.97	0.90	nan	nan
2022-12-04	276.45	37.78	8.97	0.90	nan	nan
2022-12-05	276.48	37.78	8.97	0.90	nan	nan
2022-12-06	276.48	37.78	8.97	0.90	nan	nan
2022-12-07	276.48	37.78	8.97	0.90	nan	nan
2022-12-08	276.48	37.78	8.97	0.90	nan	nan
2022-12-09	276.48	37.78	8.97	0.90	nan	nan
2022-12-10	276.48	37.78	8.97	0.90	nan	nan
2022-12-11	276.48	37.78	8.97	0.90	nan	nan
2022-12-12	276.48	37.78	8.97	0.90	nan	nan
2022-12-13	276.48	37.78	8.97	0.90	nan	nan
2022-12-14	276.48	37.78	8.97	0.90	nan	nan
2022-12-15	276.48	37.78	8.97	0.90	nan	nan

- This is one of the most worrisome/problematic STPs as it has the highest avg limits breaching days (17) & is breaching limits by a large extent.
- COD & BOD values are continuously 4-6 times the max permissible limit (50 & 10 mg/l respectively)
- Ammonical Nitrogen & Total Nitrogen are not even configured.

14.Recommendations:

- Online monitoring system should alert BWSSB & KSPCB, if any parameter is breaching or is stagnant for too long.
- All parameters prescribed by National Green Tribunal, Chennai and KSPCB should be measured by BWSSB monitoring dashboard.
 - Fecal / Total Coliform measurement is missing in the dashboard, Samples need to be tested atleast once a day and updated along with the concerned day data.
 - All parameters should be configured, especially Ammonical & Total Nitrogen are not configured for 7 STPs (Hebbal, Rajacanal(o), Jakkur, K&C Valley 218, K&C Valley 30, Kengeri, Mallathahalli).
- TSS & pH limits should be updated on the BWSSB monitoring dashboard to match the recommendations by KSPCB.
- Limit breaches should be minimized, especially for Chemical Oxygen Demand (COD) and not let to last for continuous days.
- STPs like Jakkur with extremely high levels of limit breaches should be dealt with on a priority basis.
- KSPCB needs to have a check on the Online STP dashboard data.

The study is an effort by the organisation to understand the online monitoring system in a holistic way and address the lacunae arising. I sincerely thank Ms. Kavya Bhandari, IIT Bombay and a volunteer at ActionAid Association; without her rich experience of handling the large data set the report would not be complete.

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15. Annexure:

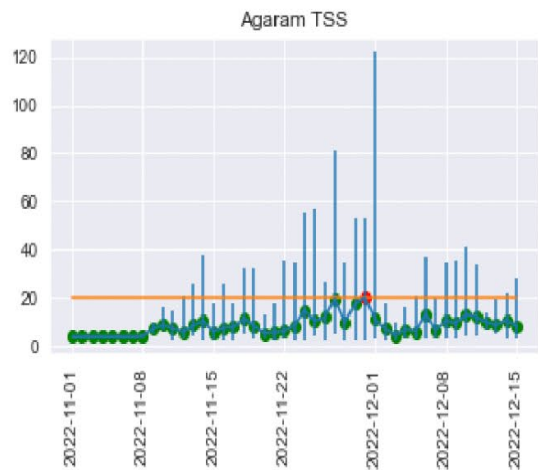
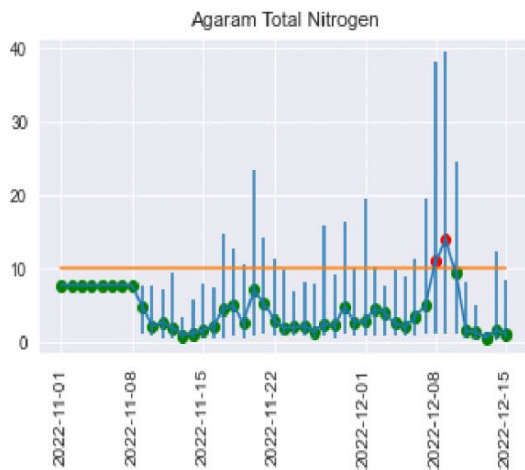
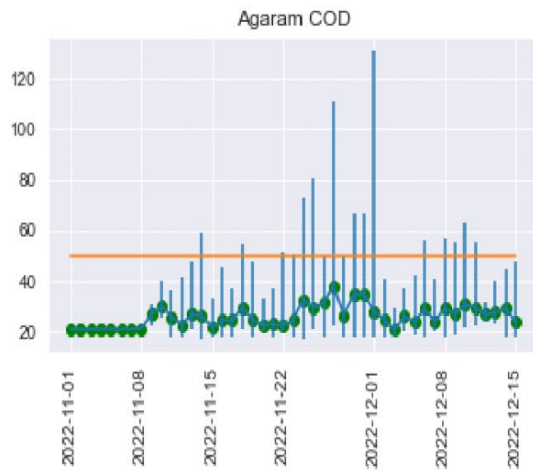
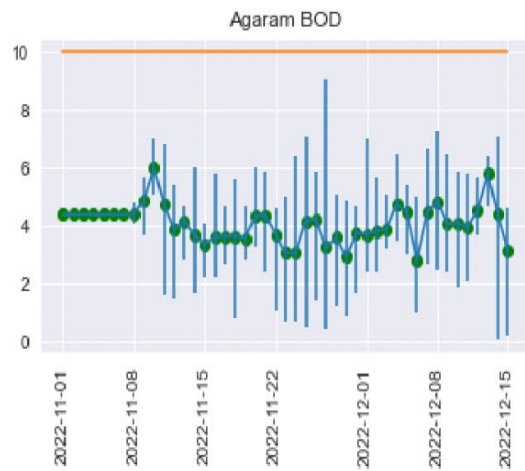
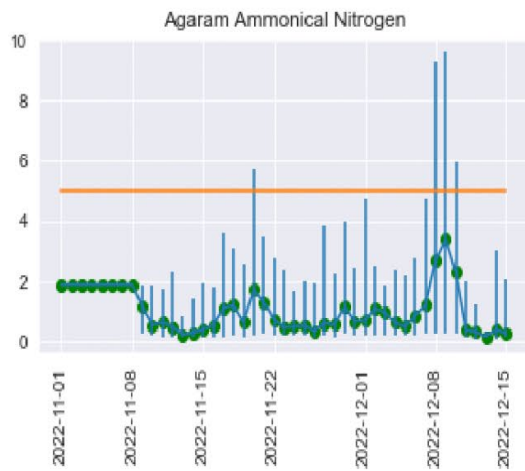
a) Compiled Data of all STPs and parameters

Valley	STP	Capacity Y (in MLD)	COD		BOD		pH		TSS		Ammonical Nitrogen		Total Nitrogen		Avg wrong data days	Max wrong data days	Avg limits breaching days	Max limits breaching days
			Missing/ constant (wrong data) days	Limits beaching days	Missing/ constant (wrong data) days	Limits beaching days	Missing/ constant (wrong data) days	Limits beaching days	Missing/ constant (wrong data) days	Limits beaching days	Missing/ constant (wrong data) days	Limits beaching days	Missing/ constant (wrong data) days	Limits beaching days				
Hebbal Valley	Hebbal	80	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	45	45	0	0
	Rajacanal(o)	40	45	0	45	0	45	0	45	0	NC	NC	NC	NC	45	45	0	0
	Rajacanal(n)	40	7	0	7	0	7	0	7	0	NC	NC	NC	NC	7/833333333	12	0	0
	Horanavu Agara	20	20	0	20	0	16	0	15	0	18	0	16	0	17/333333333	20	2.5	15
	Jakkur	15	11	34	11	34	0	11	0	14	NC	NC	NC	NC	22/833333333	45	17	34
	Velankata TTP	10	43	0	43	0	43	0	0	43	45	0	45	0	43/66666667	45	0	0
	K&C Valley/ 218	218	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	45	45	0	0
	Bellandur Amruti kere	90	41	0	41	0	41	0	41	0	41	0	41	0	41/166666667	42	0	0
	K&C Valley/ 60	60	7	4	17	0	7	0	7	0	7	0	7	0	8/666666667	17	0.666666666	4
	Kadabesanahalli	50	12	18	12	26	12	12	4	4	12	0	12	0	12	12	8	26
K&C Valley	Agaram	35	7	0	7	0	8	0	7	1	8	0	8	0	7.5	8	0.5	2
	K&C Valley/ 30	30	45	0	45	0	45	0	45	0	NC	NC	NC	NC	45	45	0	0
	K.R.Puram	20	7	0	17	0	9	4	7	0	8	0	7	0	9	7	17	1.333333333
	Yelmalappa Chetti	15	7	0	7	0	7	0	7	0	7	0	7	0	7	7	0	0
	Hulimavu	10	10	2	11	0	9	0	10	0	9	0	10	0	10/333333333	13	0.333333333	2
	Kadugodi	6	15	25	42	0	17	0	5	5	11	0	7	0	16.5	42	5	25
	Saraki	5	3	0	3	2	3	25	3	3	45	0	45	0	17	45	5.333333333	25
	Chickbegur	5	2	14	13	0	2	0	0	2	5	4	4	45	11.5	4	3	14
	Cubbon Park	4	3	0	3	0	4	0	4	0	4	0	3	0	3/166666667	4	4	0
	Halsuru	2	41	0	43	0	41	0	0	7	43	2	43	0	42	43	0.666666666	2
Visih abtra valli Valle Y	Labagh	15	7	0	7	0	8	0	7	0	8	0	7	0	7.5	8	0	0
	Malasandra PH	75	7	1	7	1	7	0	7	0	7	0	7	0	7	7	7	0
	V.Valley	60	7	0	7	0	7	0	7	0	7	5	7	15	7	7	3.333333333	15
	Kengeri	80	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	45	45	0	0
	Doddabale 40	40	0	0	0	0	1	0	2	0	4	0	0	0	1/166666667	4	0	0
	Nagasandra(o)	20	11	27	11	7	0	10	26	7	7	2	7	1	8/833333333	11	9.333333333	27
	Nagasandra(n)	20	7	24	7	0	7	0	19	7	7	0	7	0	7	7	7	7.166666666
	Doddabale 20	20	21	0	22	0	21	0	0	0	27	0	22	0	22/333333333	27	0	0
	Chikakanavara	5	7	0	7	0	7	0	7	0	7	0	7	0	8/666666667	17	0	0
	Malleshahalli	5	45	0	45	0	45	0	45	0	NC	NC	NC	NC	37.5	45	0	0
Kempambuchi	1	7	0	7	0	12	0	7	0	7	0	7	0	7/833333333	12	0	0	

a) Daily Average of STPs with trend max-min graphs

i) Agaram

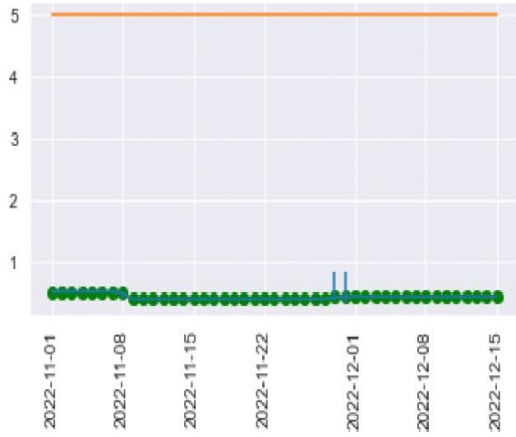
Agaram						
Date	avg_COD	avg_BOD	avg_pH	avg_TSS	avg_Ammonical Nitrogen	avg_Total Nitrogen
2022-11-01	20.90	4.40	7.03	3.80	1.88	7.71
2022-11-02	20.90	4.40	7.03	3.80	1.88	7.71
2022-11-03	20.90	4.40	7.03	3.80	1.88	7.71
2022-11-04	20.90	4.40	7.03	3.80	1.88	7.71
2022-11-05	20.90	4.40	7.03	3.80	1.88	7.71
2022-11-06	20.90	4.40	7.03	3.80	1.88	7.71
2022-11-07	20.90	4.40	7.03	3.80	1.88	7.71
2022-11-08	21.19	4.42	7.03	3.95	1.88	7.71
2022-11-09	26.78	4.89	7.39	7.11	1.15	4.71
2022-11-10	30.13	6.01	7.68	8.58	0.54	2.23
2022-11-11	25.74	4.72	7.69	7.22	0.64	2.64
2022-11-12	22.69	3.89	7.72	5.55	0.47	1.93
2022-11-13	26.66	4.18	7.69	8.50	0.22	0.91
2022-11-14	26.36	3.68	7.64	10.22	0.29	1.18
2022-11-15	21.60	3.36	7.66	5.67	0.38	1.58
2022-11-16	24.40	3.61	7.66	7.55	0.54	2.22
2022-11-17	24.46	3.64	7.63	7.69	1.10	4.51
2022-11-18	29.39	3.65	7.70	11.48	1.19	4.88
2022-11-19	24.61	3.56	7.69	8.42	0.62	2.56
2022-11-20	22.58	4.33	7.71	5.06	1.71	7.01
2022-11-21	22.83	4.37	7.68	5.38	1.31	5.36
2022-11-22	22.43	3.71	7.66	6.09	0.73	3.01
2022-11-23	24.51	3.06	7.71	8.38	0.46	1.89
2022-11-24	32.53	3.07	7.69	14.82	0.49	2.00
2022-11-25	29.42	4.18	7.70	10.32	0.53	2.18
2022-11-26	31.39	4.22	7.71	11.66	0.33	1.36
2022-11-27	37.89	3.25	7.72	19.58	0.61	2.49
2022-11-28	26.55	3.60	7.66	9.52	0.55	2.27
2022-11-29	34.35	2.93	7.70	17.57	1.14	4.68
2022-11-30	34.93	3.76	7.67	20.08	0.67	2.74
2022-12-01	27.97	3.71	7.65	10.91	0.69	2.83
2022-12-02	24.79	3.80	7.68	7.07	1.09	4.47
2022-12-03	20.60	3.91	7.68	4.05	0.95	3.89
2022-12-04	26.04	4.76	7.75	6.81	0.61	2.52
2022-12-05	23.72	4.48	7.68	5.93	0.49	1.99
2022-12-06	29.02	2.85	7.69	13.11	0.86	3.54
2022-12-07	23.90	4.47	7.77	6.42	1.21	4.95
2022-12-08	29.05	4.84	7.74	10.47	2.68	10.99
2022-12-09	26.91	4.07	7.75	9.26	3.39	13.90
2022-12-10	30.52	4.10	7.74	13.05	2.28	9.35
2022-12-11	29.49	3.95	7.63	12.06	0.37	1.52
2022-12-12	26.60	4.54	7.59	9.76	0.31	1.26
2022-12-13	27.53	5.80	7.60	8.56	0.15	0.62
2022-12-14	29.08	4.38	7.65	10.84	0.39	1.59
2022-12-15	23.84	3.15	7.67	7.95	0.24	0.99



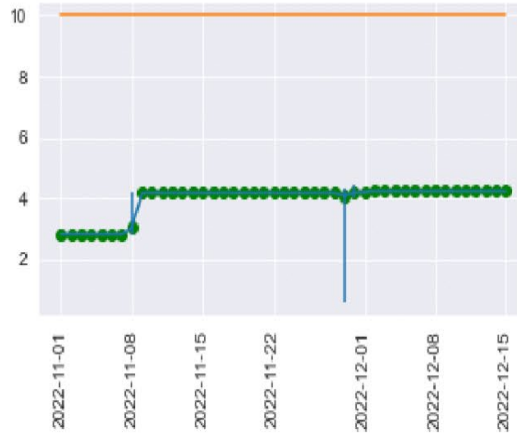
ii) Bellandur Amani kere

Bellandur Amani kere						
Date	avg_COD	avg_BOD	avg_pH	avg_TSS	avg_Ammonical Nitrogen	avg_Total Nitrogen
2022-11-01	25.39	2.83	7.75	6.65	0.51	1.00
2022-11-02	25.39	2.83	7.75	6.65	0.51	1.00
2022-11-03	25.39	2.83	7.75	6.65	0.51	1.00
2022-11-04	25.39	2.83	7.75	6.65	0.51	1.00
2022-11-05	25.39	2.83	7.75	6.65	0.51	1.00
2022-11-06	25.39	2.83	7.75	6.65	0.51	1.00
2022-11-07	25.39	2.83	7.75	6.65	0.51	1.00
2022-11-08	25.43	3.03	7.71	6.31	0.49	0.94
2022-11-09	25.68	4.17	7.46	4.35	0.39	0.60
2022-11-10	25.68	4.17	7.46	4.35	0.39	0.60
2022-11-11	25.68	4.17	7.46	4.35	0.39	0.60
2022-11-12	25.68	4.17	7.46	4.35	0.39	0.60
2022-11-13	25.68	4.17	7.46	4.35	0.39	0.60
2022-11-14	25.68	4.17	7.46	4.35	0.39	0.60
2022-11-15	25.68	4.17	7.46	4.35	0.39	0.60
2022-11-16	25.68	4.17	7.46	4.35	0.39	0.60
2022-11-17	25.68	4.17	7.46	4.35	0.39	0.60
2022-11-18	25.68	4.17	7.46	4.35	0.39	0.60
2022-11-19	25.68	4.17	7.46	4.35	0.39	0.60
2022-11-20	25.68	4.17	7.46	4.35	0.39	0.60
2022-11-21	25.68	4.17	7.46	4.35	0.39	0.60
2022-11-22	25.68	4.17	7.46	4.35	0.39	0.60
2022-11-23	25.68	4.17	7.46	4.35	0.39	0.60
2022-11-24	25.68	4.17	7.46	4.35	0.39	0.60
2022-11-25	25.68	4.17	7.46	4.35	0.39	0.60
2022-11-26	25.68	4.17	7.46	4.35	0.39	0.60
2022-11-27	25.68	4.17	7.46	4.35	0.39	0.60
2022-11-28	25.68	4.17	7.46	4.35	0.39	0.60
2022-11-29	25.79	4.08	7.36	4.76	0.42	0.62
2022-11-30	26.07	4.18	7.58	5.89	0.42	0.59
2022-12-01	26.09	4.20	7.56	6.05	0.43	0.60
2022-12-02	26.05	4.23	7.56	5.82	0.43	0.60
2022-12-03	26.05	4.23	7.56	5.82	0.43	0.60
2022-12-04	26.05	4.23	7.56	5.82	0.43	0.60
2022-12-05	26.05	4.23	7.56	5.82	0.43	0.60
2022-12-06	26.05	4.23	7.56	5.82	0.43	0.60
2022-12-07	26.05	4.23	7.56	5.82	0.43	0.60
2022-12-08	26.05	4.23	7.56	5.82	0.43	0.60
2022-12-09	26.05	4.23	7.56	5.82	0.43	0.60
2022-12-10	26.05	4.23	7.56	5.82	0.43	0.60
2022-12-11	26.05	4.23	7.56	5.82	0.43	0.60
2022-12-12	26.05	4.23	7.56	5.82	0.43	0.60
2022-12-13	26.05	4.23	7.56	5.82	0.43	0.60
2022-12-14	26.05	4.23	7.56	5.82	0.43	0.60
2022-12-15	26.05	4.23	7.56	5.82	0.43	0.60

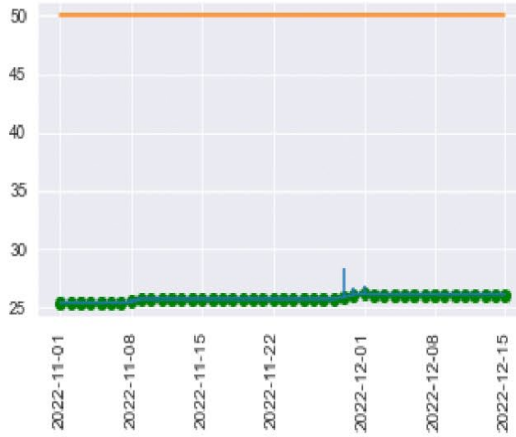
Bellandur Amani kere Ammonical Nitrogen



Bellandur Amani kere BOD



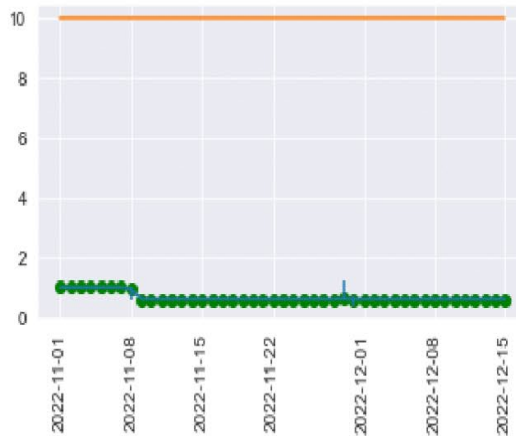
Bellandur Amani kere COD



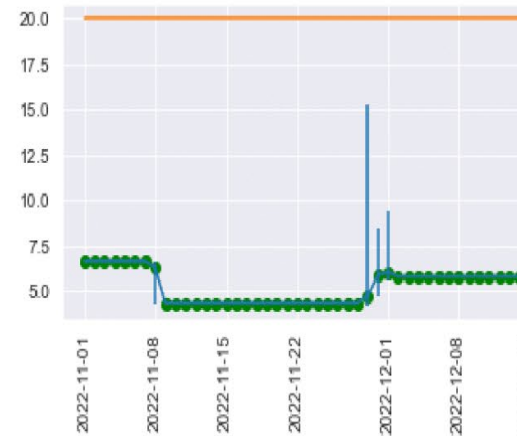
Bellandur Amani kere pH



Bellandur Amani kere Total Nitrogen

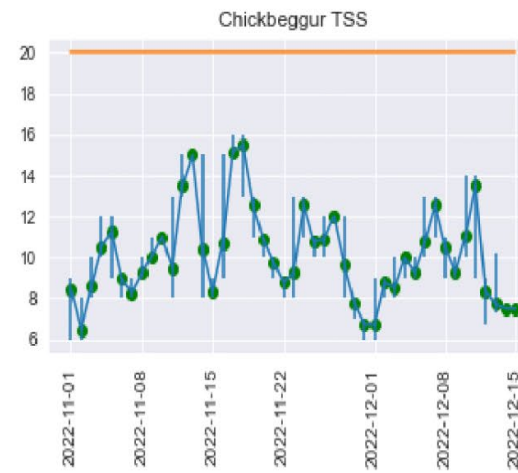
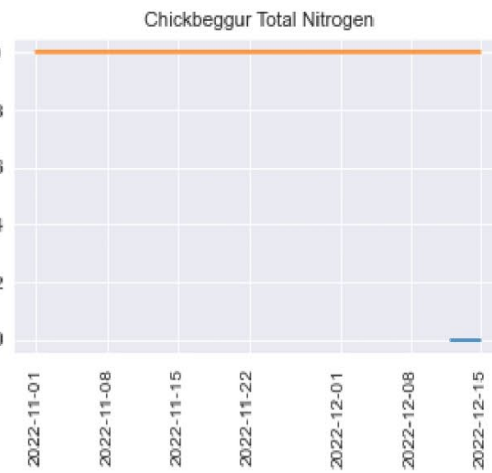
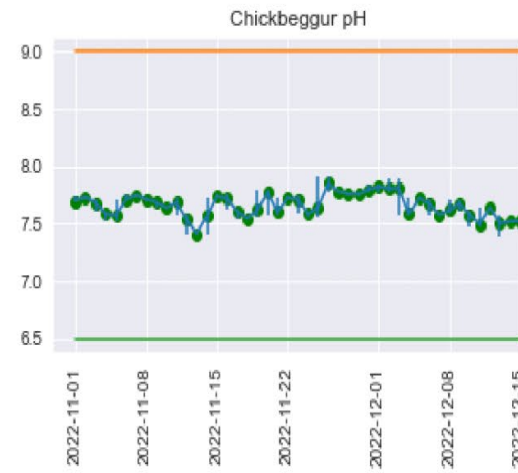
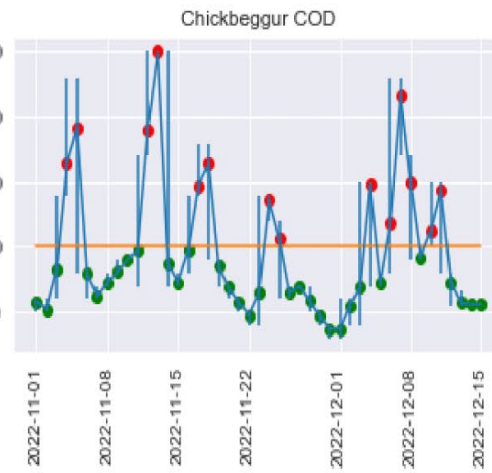
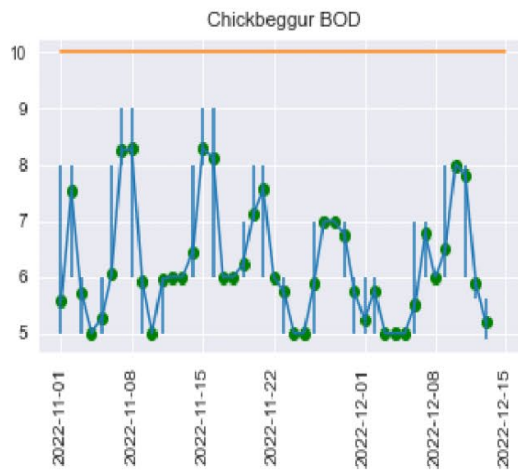
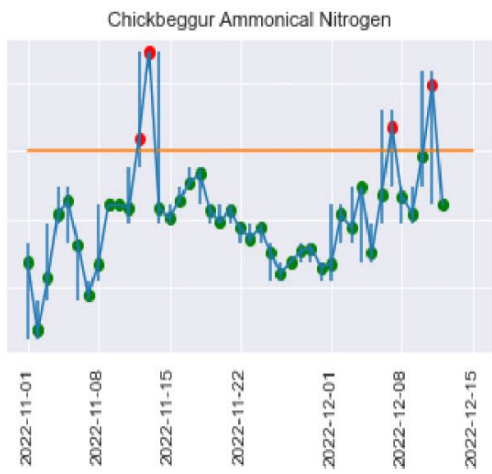


Bellandur Amani kere TSS



iii) Chickbeggur

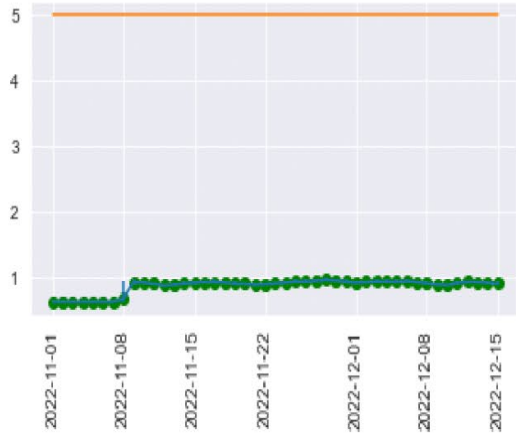
Chickbeggur						
Date	avg_COD	avg_BOD	avg_pH	avg_TSS	avg_Ammonical Nitrogen	avg_Total Nitrogen
2022-11-01	41.62	5.57	7.70	8.43	3.37	nan
2022-11-02	40.45	7.55	7.73	6.45	2.37	nan
2022-11-03	46.61	5.71	7.68	8.58	3.12	nan
2022-11-04	62.81	5.00	7.59	10.53	4.07	nan
2022-11-05	68.19	5.26	7.57	11.22	4.26	nan
2022-11-06	45.87	6.06	7.71	8.97	3.61	nan
2022-11-07	42.53	8.27	7.75	8.27	2.87	nan
2022-11-08	44.48	8.28	7.71	9.24	3.35	nan
2022-11-09	46.13	5.93	7.69	10.07	4.20	nan
2022-11-10	48.00	5.00	7.64	11.00	4.20	nan
2022-11-11	49.56	5.95	7.69	9.49	4.16	nan
2022-11-12	67.94	6.00	7.54	13.49	5.17	nan
2022-11-13	80.00	6.00	7.41	15.00	6.44	nan
2022-11-14	47.46	6.44	7.56	10.39	4.16	nan
2022-11-15	44.59	8.30	7.74	8.30	4.00	nan
2022-11-16	49.46	8.14	7.72	10.73	4.28	nan
2022-11-17	59.36	6.00	7.61	15.17	4.53	nan
2022-11-18	62.81	6.00	7.54	15.47	4.66	nan
2022-11-19	47.07	6.23	7.62	12.53	4.13	nan
2022-11-20	43.78	7.11	7.78	10.89	3.95	nan
2022-11-21	41.58	7.58	7.60	9.79	4.14	nan
2022-11-22	39.56	6.00	7.73	8.78	3.86	nan
2022-11-23	42.93	5.75	7.71	9.23	3.71	nan
2022-11-24	57.12	5.00	7.58	12.56	3.86	nan
2022-11-25	51.29	5.00	7.64	10.77	3.51	nan
2022-11-26	42.88	5.88	7.85	10.88	3.20	nan
2022-11-27	44.00	7.00	7.78	12.00	3.36	nan
2022-11-28	41.68	7.00	7.76	9.68	3.52	nan
2022-11-29	39.52	6.76	7.76	7.76	3.57	nan
2022-11-30	37.48	5.74	7.80	6.74	3.29	nan
2022-12-01	37.44	5.24	7.83	6.72	3.35	nan
2022-12-02	41.04	5.76	7.81	8.76	4.07	nan
2022-12-03	43.88	5.00	7.81	8.53	3.86	nan
2022-12-04	59.72	5.00	7.58	9.98	4.46	nan
2022-12-05	44.48	5.00	7.73	9.24	3.49	nan
2022-12-06	53.61	5.51	7.67	10.76	4.35	nan
2022-12-07	73.42	6.78	7.57	12.57	5.36	nan
2022-12-08	60.00	6.00	7.62	10.50	4.34	nan
2022-12-09	48.49	6.49	7.68	9.25	4.06	nan
2022-12-10	52.57	8.00	7.58	11.03	4.91	nan
2022-12-11	58.74	7.82	7.49	13.55	5.98	nan
2022-12-12	44.54	5.88	7.64	8.33	4.20	0.00
2022-12-13	41.39	5.19	7.50	7.72	nan	0.00
2022-12-14	41.20	nan	7.52	7.50	nan	0.00
2022-12-15	41.20	nan	7.52	7.50	nan	0.00



iv) Chikkabanavara

Chikkabanavara						
Date	avg_COD	avg_BOD	avg_pH	avg_TSS	avg_Ammonical Nitrogen	avg_Total Nitrogen
2022-11-01	38.41	7.87	7.19	10.46	0.63	3.80
2022-11-02	38.41	7.87	7.19	10.46	0.63	3.80
2022-11-03	38.41	7.87	7.19	10.46	0.63	3.80
2022-11-04	38.41	7.87	7.19	10.46	0.63	3.80
2022-11-05	38.41	7.87	7.19	10.46	0.63	3.80
2022-11-06	38.41	7.87	7.19	10.46	0.63	3.80
2022-11-07	38.41	7.87	7.19	10.46	0.63	3.80
2022-11-08	38.59	7.79	7.21	10.55	0.67	3.62
2022-11-09	39.63	7.30	7.35	11.04	0.92	2.59
2022-11-10	39.55	7.31	7.32	11.02	0.92	2.60
2022-11-11	39.53	7.31	7.21	11.02	0.90	2.60
2022-11-12	39.49	7.30	7.12	11.01	0.87	2.61
2022-11-13	39.49	7.30	7.11	11.02	0.89	2.60
2022-11-14	39.45	7.30	7.10	11.02	0.90	2.60
2022-11-15	39.40	7.29	7.11	11.01	0.92	2.60
2022-11-16	39.39	7.27	7.13	11.02	0.93	2.60
2022-11-17	39.37	7.28	7.17	11.01	0.93	2.60
2022-11-18	39.41	7.28	7.21	11.07	0.92	2.60
2022-11-19	39.40	7.27	7.17	11.04	0.90	2.65
2022-11-20	39.41	7.29	7.19	11.04	0.90	2.63
2022-11-21	39.44	7.30	7.19	11.08	0.88	2.70
2022-11-22	39.34	7.30	7.19	11.01	0.89	2.67
2022-11-23	39.38	7.32	7.18	11.04	0.91	2.70
2022-11-24	39.36	7.32	7.19	11.04	0.92	2.68
2022-11-25	39.39	7.34	7.19	11.04	0.93	2.62
2022-11-26	39.50	7.38	7.19	11.08	0.93	2.70
2022-11-27	39.58	7.42	7.21	11.11	0.94	2.67
2022-11-28	39.57	7.45	7.20	11.10	0.96	2.63
2022-11-29	40.25	7.50	7.21	11.52	0.95	2.70
2022-11-30	42.25	7.51	7.21	12.93	0.93	2.70
2022-12-01	41.66	7.39	7.21	12.55	0.92	2.71
2022-12-02	41.58	7.41	7.25	12.32	0.93	2.71
2022-12-03	41.92	7.58	7.26	12.40	0.93	2.73
2022-12-04	42.63	7.77	7.28	12.66	0.94	2.76
2022-12-05	42.67	7.70	7.25	12.84	0.93	2.80
2022-12-06	43.10	7.68	7.25	13.19	0.94	2.80
2022-12-07	43.09	7.77	7.25	13.18	0.93	2.80
2022-12-08	43.19	7.81	7.18	13.27	0.91	2.80
2022-12-09	44.91	8.21	7.16	13.90	0.89	2.80
2022-12-10	46.28	8.38	7.15	14.54	0.88	2.80
2022-12-11	46.76	8.47	7.08	14.73	0.91	2.57
2022-12-12	47.35	8.52	7.03	15.15	0.93	2.49
2022-12-13	47.64	8.52	7.04	15.43	0.93	2.63
2022-12-14	45.98	8.45	7.08	14.66	0.92	2.67
2022-12-15	46.13	8.49	7.11	14.85	0.90	2.72

Chikkabanavara Ammonical Nitrogen



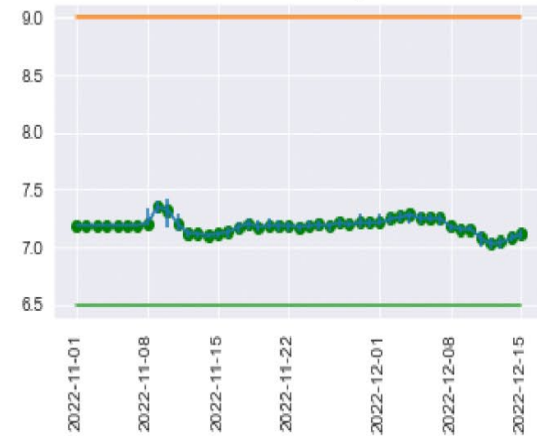
Chikkabanavara BOD



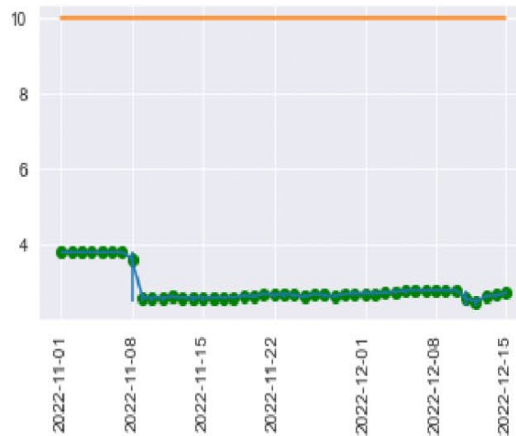
Chikkabanavara COD



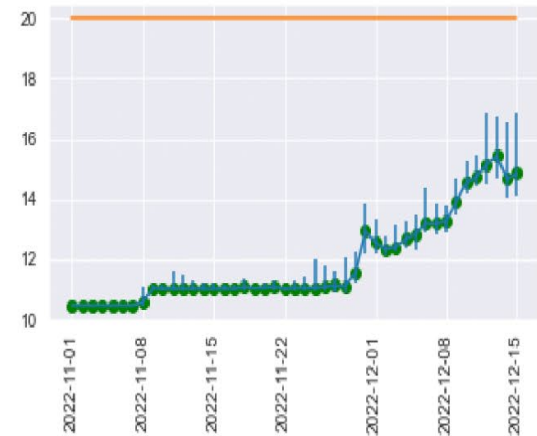
Chikkabanavara pH



Chikkabanavara Total Nitrogen

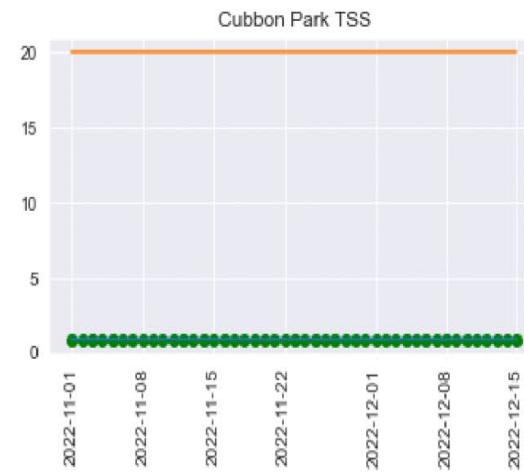
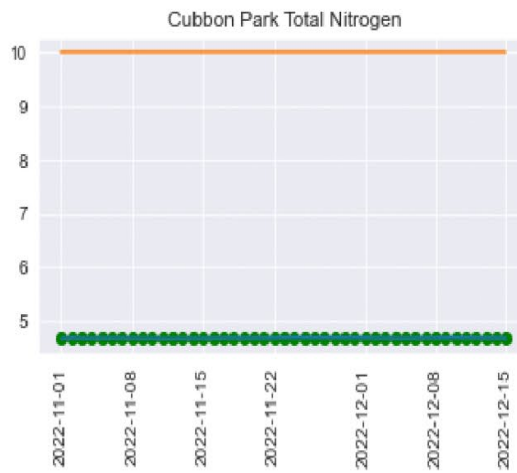
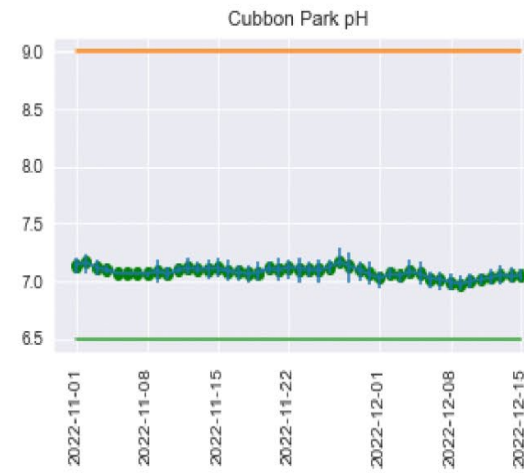
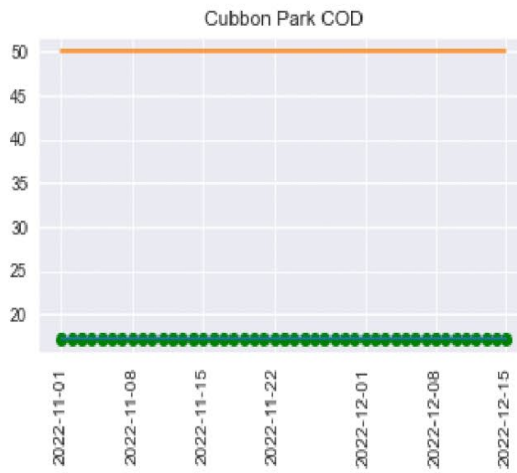
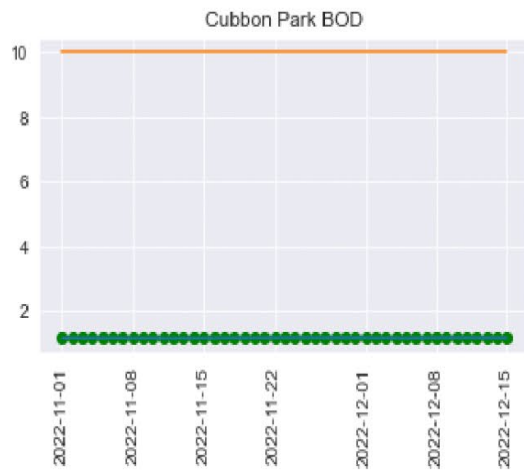
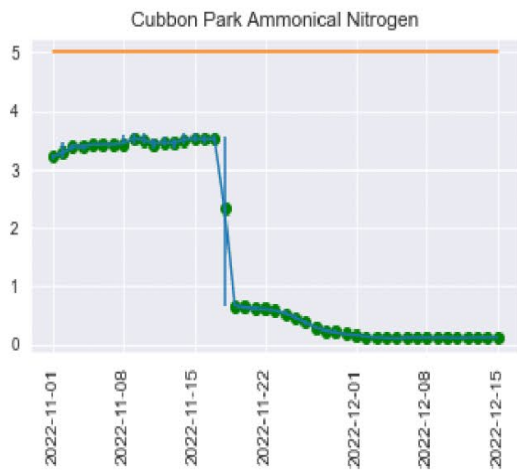


Chikkabanavara TSS



v) Cubbon Park

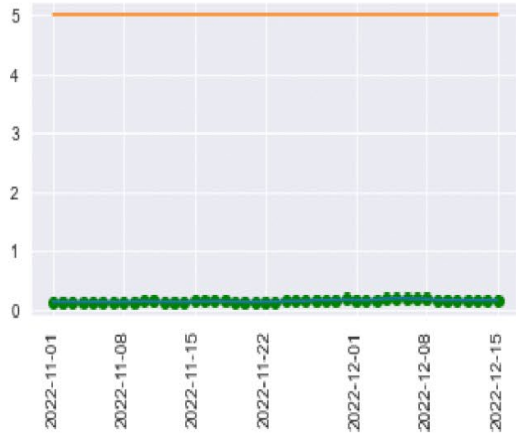
Cubbon Park						
Date	avg_COD	avg_BOD	avg_pH	avg_TSS	avg_Ammonical Nitrogen	avg_Total Nitrogen
2022-11-01 17.30	1.16	7.14	0.92	3.22		4.66
2022-11-02 17.31	1.17	7.16	0.92	3.29		4.67
2022-11-03 17.31	1.17	7.11	0.92	3.40		4.67
2022-11-04 17.31	1.17	7.10	0.92	3.39		4.67
2022-11-05 17.31	1.17	7.07	0.92	3.42		4.67
2022-11-06 17.31	1.17	7.07	0.92	3.42		4.67
2022-11-07 17.31	1.17	7.07	0.92	3.42		4.67
2022-11-08 17.31	1.17	7.07	0.92	3.44		4.67
2022-11-09 17.31	1.17	7.09	0.92	3.53		4.67
2022-11-10 17.31	1.17	7.07	0.92	3.50		4.67
2022-11-11 17.31	1.16	7.10	0.92	3.44		4.66
2022-11-12 17.30	1.16	7.11	0.92	3.45		4.66
2022-11-13 17.31	1.17	7.10	0.92	3.45		4.67
2022-11-14 17.31	1.17	7.11	0.92	3.51		4.67
2022-11-15 17.31	1.17	7.11	0.92	3.53		4.67
2022-11-16 17.31	1.17	7.09	0.92	3.51		4.67
2022-11-17 17.31	1.17	7.08	0.92	3.51		4.67
2022-11-18 17.31	1.17	7.07	0.92	2.33		4.67
2022-11-19 17.30	1.17	7.07	0.91	0.66		4.67
2022-11-20 17.31	1.17	7.11	0.92	0.63		4.67
2022-11-21 17.31	1.17	7.10	0.92	0.61		4.67
2022-11-22 17.31	1.18	7.12	0.92	0.60		4.68
2022-11-23 17.32	1.18	7.11	0.92	0.58		4.68
2022-11-24 17.32	1.18	7.10	0.92	0.53		4.68
2022-11-25 17.32	1.18	7.10	0.92	0.46		4.68
2022-11-26 17.31	1.18	7.12	0.92	0.37		4.68
2022-11-27 17.31	1.18	7.17	0.92	0.29		4.68
2022-11-28 17.32	1.18	7.13	0.92	0.23		4.68
2022-11-29 17.32	1.18	7.09	0.92	0.21		4.68
2022-11-30 17.32	1.18	7.06	0.92	0.18		4.68
2022-12-01 17.32	1.18	7.03	0.92	0.16		4.68
2022-12-02 17.31	1.17	7.06	0.92	0.14		4.67
2022-12-03 17.31	1.17	7.05	0.92	0.12		4.67
2022-12-04 17.31	1.17	7.09	0.92	0.11		4.67
2022-12-05 17.31	1.17	7.06	0.92	0.11		4.67
2022-12-06 17.31	1.17	7.02	0.92	0.12		4.67
2022-12-07 17.31	1.17	7.01	0.92	0.12		4.67
2022-12-08 17.31	1.18	6.99	0.92	0.12		4.68
2022-12-09 17.31	1.18	6.97	0.92	0.12		4.68
2022-12-10 17.32	1.18	7.00	0.92	0.12		4.68
2022-12-11 17.32	1.18	7.02	0.92	0.11		4.68
2022-12-12 17.31	1.18	7.03	0.92	0.12		4.68
2022-12-13 17.31	1.17	7.06	0.92	0.12		4.67
2022-12-14 17.31	1.17	7.04	0.92	0.12		4.67
2022-12-15 17.31	1.17	7.05	0.92	0.12		4.67



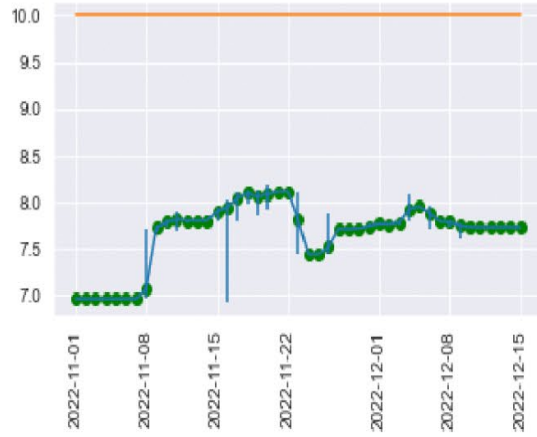
vi) Doddabele 20

Doddabele 20						
Date	avg_COD	avg_BOD	avg_pH	avg_TSS	avg_Ammonical Nitrogen	avg_Total Nitrogen
2022-11-01	37.50	6.96	7.11	5.13	0.14	2.50
2022-11-02	37.50	6.96	7.11	5.13	0.14	2.50
2022-11-03	37.50	6.96	7.11	5.13	0.14	2.50
2022-11-04	37.50	6.96	7.11	5.13	0.14	2.50
2022-11-05	37.50	6.96	7.11	5.13	0.14	2.50
2022-11-06	37.50	6.96	7.11	5.13	0.14	2.50
2022-11-07	37.50	6.96	7.11	5.13	0.14	2.50
2022-11-08	37.56	7.07	7.14	5.09	0.14	2.59
2022-11-09	37.94	7.73	7.30	4.89	0.14	3.02
2022-11-10	38.01	7.78	7.37	4.98	0.15	2.92
2022-11-11	38.11	7.81	7.31	5.13	0.14	2.90
2022-11-12	37.95	7.80	7.45	4.88	0.14	2.90
2022-11-13	37.93	7.80	7.45	4.86	0.14	2.90
2022-11-14	37.93	7.80	7.45	4.86	0.14	2.90
2022-11-15	38.20	7.90	7.27	5.17	0.15	2.63
2022-11-16	38.54	7.94	7.23	6.28	0.15	2.60
2022-11-17	38.49	8.04	7.23	5.84	0.15	2.57
2022-11-18	38.93	8.09	7.32	6.92	0.15	2.60
2022-11-19	39.14	8.06	7.29	7.63	0.14	2.61
2022-11-20	39.53	8.08	7.30	9.25	0.14	2.67
2022-11-21	39.45	8.11	7.31	8.82	0.14	2.70
2022-11-22	39.45	8.11	7.31	8.82	0.14	2.70
2022-11-23	38.95	7.81	7.36	7.50	0.14	2.66
2022-11-24	38.30	7.44	7.43	5.82	0.15	2.60
2022-11-25	38.30	7.44	7.43	5.82	0.15	2.60
2022-11-26	38.53	7.51	7.40	6.34	0.15	2.57
2022-11-27	38.86	7.71	7.27	6.87	0.17	2.50
2022-11-28	38.86	7.71	7.27	6.87	0.17	2.50
2022-11-29	38.88	7.72	7.25	6.85	0.17	2.47
2022-11-30	38.90	7.74	7.21	6.74	0.18	2.41
2022-12-01	38.80	7.77	7.31	6.52	0.17	2.47
2022-12-02	38.78	7.76	7.24	6.37	0.17	2.50
2022-12-03	38.95	7.78	7.22	6.71	0.18	2.36
2022-12-04	40.31	7.92	7.27	10.17	0.19	2.23
2022-12-05	40.73	7.95	7.31	11.30	0.20	2.20
2022-12-06	40.56	7.88	7.28	10.96	0.20	2.22
2022-12-07	40.47	7.79	7.20	10.88	0.19	2.30
2022-12-08	40.10	7.78	7.18	9.82	0.19	2.33
2022-12-09	40.04	7.75	7.25	9.78	0.17	2.40
2022-12-10	40.24	7.73	7.29	10.41	0.17	2.40
2022-12-11	40.24	7.73	7.29	10.41	0.17	2.40
2022-12-12	40.24	7.73	7.29	10.41	0.17	2.40
2022-12-13	40.24	7.73	7.29	10.41	0.17	2.40
2022-12-14	40.24	7.73	7.29	10.41	0.17	2.40
2022-12-15	40.24	7.73	7.29	10.41	0.17	2.40

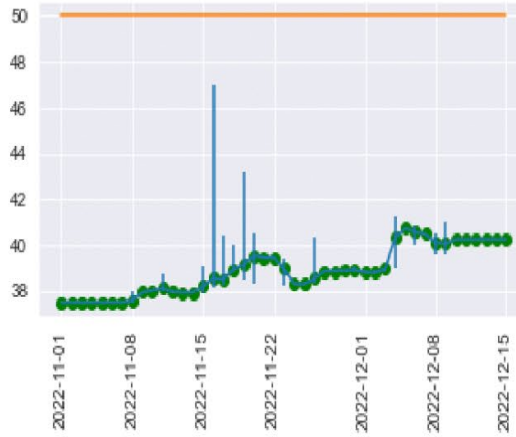
Doddabele 20 Ammonical Nitrogen



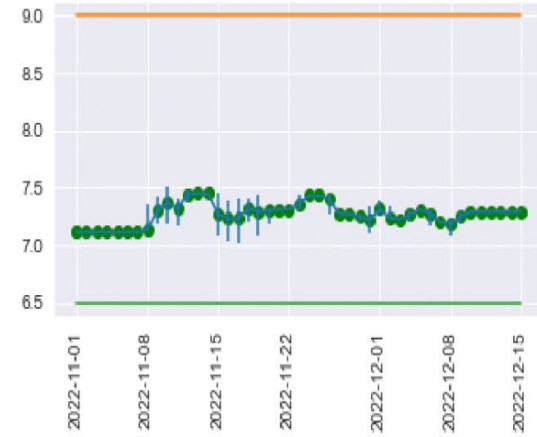
Doddabele 20 BOD



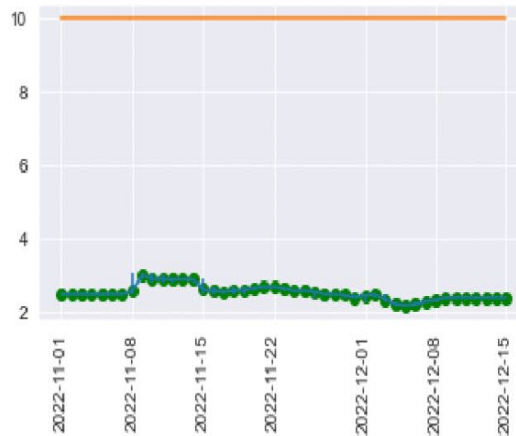
Doddabele 20 COD



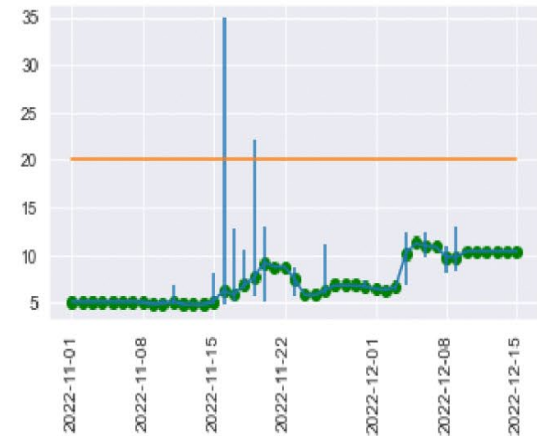
Doddabele 20 pH



Doddabele 20 Total Nitrogen



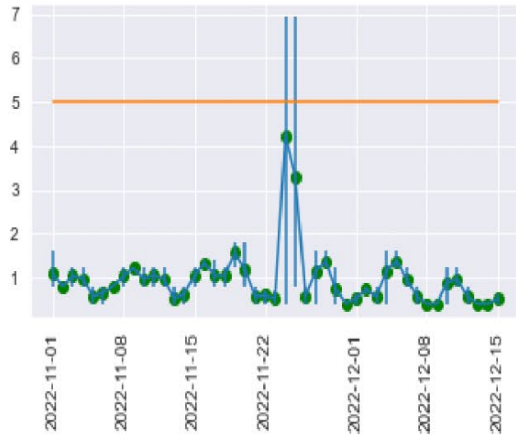
Doddabele 20 TSS



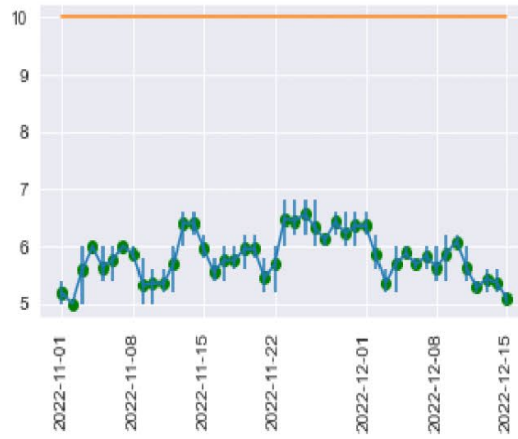
vii) Doddabele 40

Doddabele 40						
Date	avg_COD	avg_BOD	avg_pH	avg_TSS	avg_Ammonical Nitrogen	avg_Total Nitrogen
2022-11-01	29.08	5.18	7.23	4.64	1.09	6.15
2022-11-02	32.00	5.00	7.24	5.00	0.80	5.98
2022-11-03	34.38	5.59	7.17	5.59	1.04	6.43
2022-11-04	33.62	6.00	7.10	4.81	0.96	6.24
2022-11-05	27.25	5.64	7.21	4.59	0.56	6.01
2022-11-06	21.55	5.77	7.21	4.39	0.65	5.53
2022-11-07	20.00	6.00	7.16	4.00	0.80	5.19
2022-11-08	22.40	5.88	7.14	4.00	1.04	5.72
2022-11-09	28.81	5.32	7.22	4.60	1.20	6.16
2022-11-10	34.38	5.36	7.30	4.40	0.96	6.34
2022-11-11	31.08	5.35	7.23	4.61	1.05	6.16
2022-11-12	30.40	5.68	7.27	5.60	0.96	5.92
2022-11-13	26.69	6.40	7.27	5.34	0.53	5.55
2022-11-14	26.04	6.40	7.22	5.51	0.60	5.67
2022-11-15	25.65	5.97	7.23	4.83	1.03	6.39
2022-11-16	31.21	5.56	7.33	5.20	1.32	6.88
2022-11-17	31.25	5.76	7.35	4.81	1.04	6.77
2022-11-18	25.57	5.76	7.43	4.61	1.04	6.47
2022-11-19	28.75	5.96	7.37	5.59	1.56	6.56
2022-11-20	34.46	5.95	7.34	5.39	1.19	6.29
2022-11-21	33.62	5.44	7.33	4.41	0.56	6.02
2022-11-22	36.86	5.69	7.24	4.61	0.58	6.95
2022-11-23	30.39	6.48	7.26	3.80	0.52	6.61
2022-11-24	26.35	6.45	7.39	4.17	4.23	6.53
2022-11-25	32.75	6.56	7.41	4.41	3.29	6.50
2022-11-26	28.96	6.33	7.27	5.17	0.57	6.04
2022-11-27	31.38	6.12	7.27	5.39	1.14	6.56
2022-11-28	33.68	6.43	7.27	5.58	1.37	6.77
2022-11-29	27.25	6.24	7.30	5.41	0.73	6.27
2022-11-30	21.60	6.36	7.25	5.60	0.40	5.97
2022-12-01	27.21	6.36	7.29	4.80	0.52	6.02
2022-12-02	29.65	5.85	7.34	4.00	0.72	5.99
2022-12-03	25.65	5.37	7.26	4.59	0.57	5.97
2022-12-04	28.92	5.69	7.26	5.61	1.14	6.50
2022-12-05	29.68	5.88	7.24	4.84	1.37	6.54
2022-12-06	32.71	5.68	7.33	4.00	0.96	6.68
2022-12-07	33.58	5.84	7.21	4.60	0.56	6.41
2022-12-08	27.11	5.63	7.17	3.78	0.40	5.87
2022-12-09	21.68	5.86	7.28	3.58	0.40	5.43
2022-12-10	24.78	6.08	7.35	5.19	0.88	5.54
2022-12-11	25.58	5.64	7.32	4.79	0.96	5.98
2022-12-12	21.67	5.28	7.28	4.58	0.57	5.83
2022-12-13	22.36	5.44	7.18	5.59	0.40	5.27
2022-12-14	24.00	5.36	7.18	4.79	0.40	5.42
2022-12-15	28.78	5.08	7.19	4.60	0.52	5.85

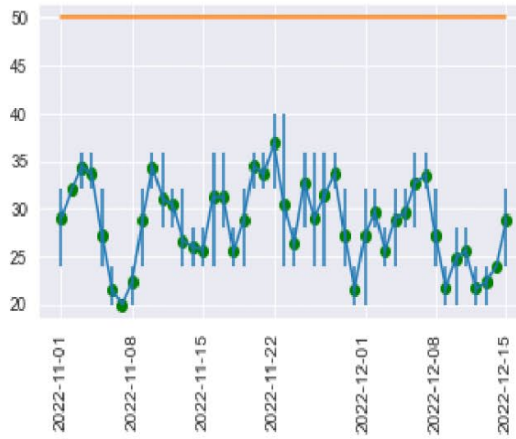
Doddabele 40 Ammonical Nitrogen



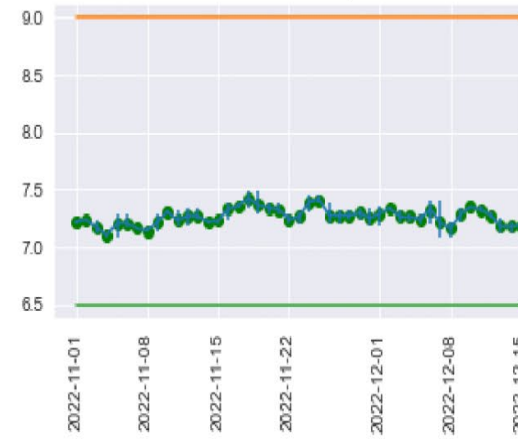
Doddabele 40 BOD



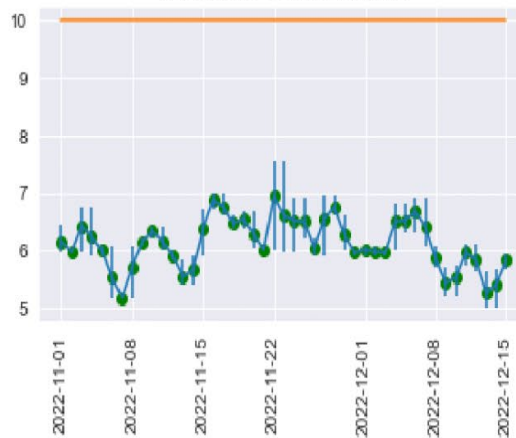
Doddabele 40 COD



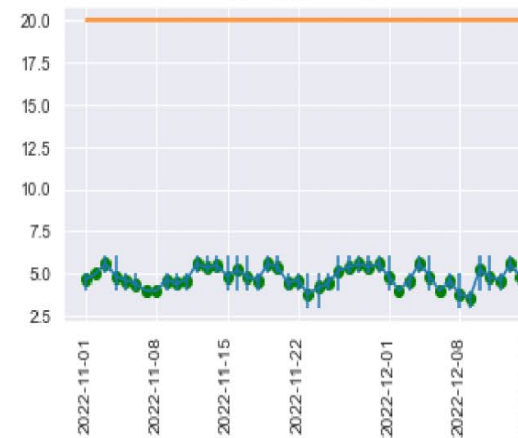
Doddabele 40 pH



Doddabele 40 Total Nitrogen

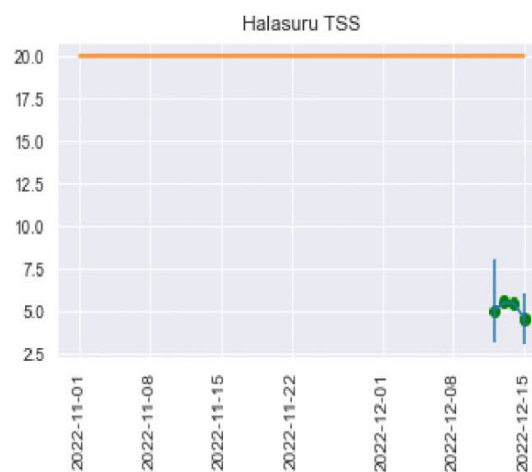
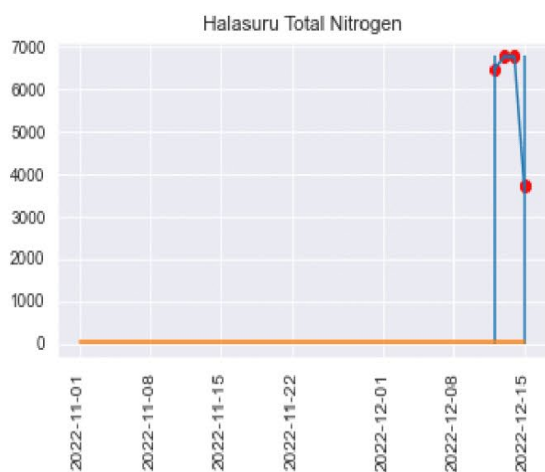
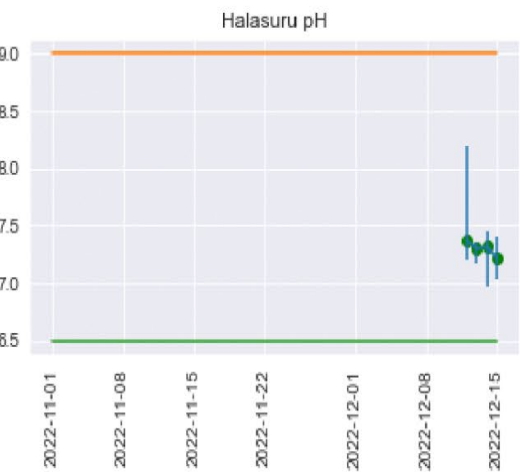
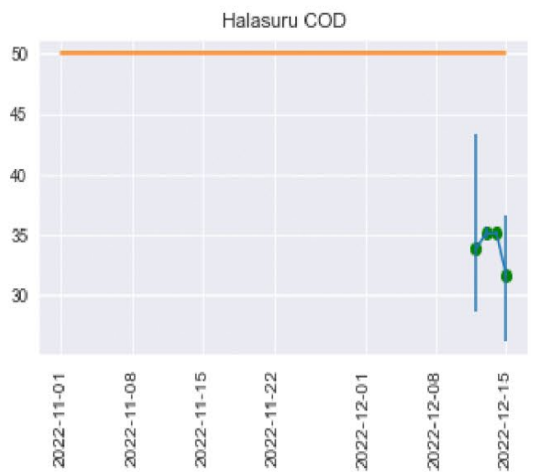
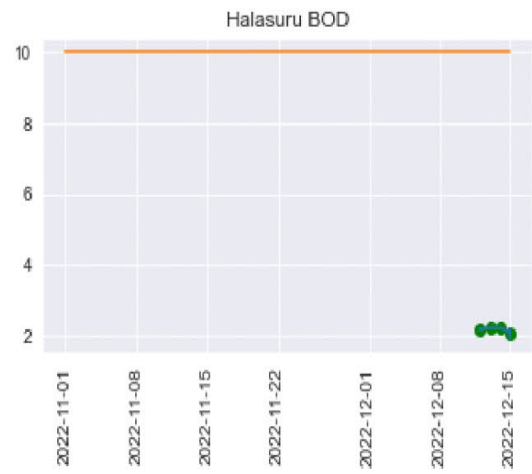
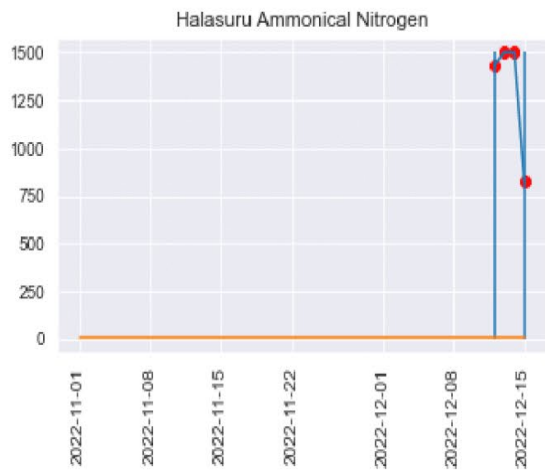


Doddabele 40 TSS



viii) Halasuru

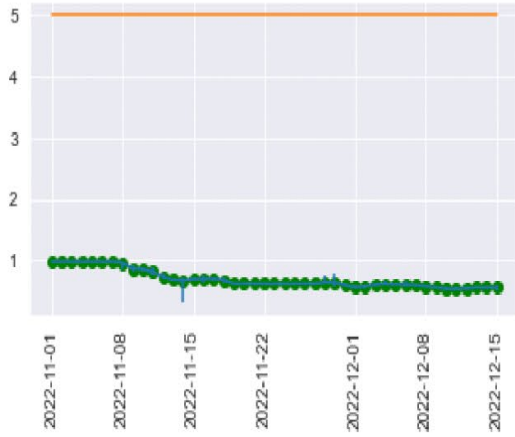
Halasuru						
Date	avg_COD	avg_BOD	avg_pH	avg_TSS	avg_Ammonical Nitrogen	avg_Total Nitrogen
2022-11-01	nan	nan	nan	nan	nan	nan
2022-11-02	nan	nan	nan	nan	nan	nan
2022-11-03	nan	nan	nan	nan	nan	nan
2022-11-04	nan	nan	nan	nan	nan	nan
2022-11-05	nan	nan	nan	nan	nan	nan
2022-11-06	nan	nan	nan	nan	nan	nan
2022-11-07	nan	nan	nan	nan	nan	nan
2022-11-08	nan	nan	nan	nan	nan	nan
2022-11-09	nan	nan	nan	nan	nan	nan
2022-11-10	nan	nan	nan	nan	nan	nan
2022-11-11	nan	nan	nan	nan	nan	nan
2022-11-12	nan	nan	nan	nan	nan	nan
2022-11-13	nan	nan	nan	nan	nan	nan
2022-11-14	nan	nan	nan	nan	nan	nan
2022-11-15	nan	nan	nan	nan	nan	nan
2022-11-16	nan	nan	nan	nan	nan	nan
2022-11-17	nan	nan	nan	nan	nan	nan
2022-11-18	nan	nan	nan	nan	nan	nan
2022-11-19	nan	nan	nan	nan	nan	nan
2022-11-20	nan	nan	nan	nan	nan	nan
2022-11-21	nan	nan	nan	nan	nan	nan
2022-11-22	nan	nan	nan	nan	nan	nan
2022-11-23	nan	nan	nan	nan	nan	nan
2022-11-24	nan	nan	nan	nan	nan	nan
2022-11-25	nan	nan	nan	nan	nan	nan
2022-11-26	nan	nan	nan	nan	nan	nan
2022-11-27	nan	nan	nan	nan	nan	nan
2022-11-28	nan	nan	nan	nan	nan	nan
2022-11-29	nan	nan	nan	nan	nan	nan
2022-11-30	nan	nan	nan	nan	nan	nan
2022-12-01	nan	nan	nan	nan	nan	nan
2022-12-02	nan	nan	nan	nan	nan	nan
2022-12-03	nan	nan	nan	nan	nan	nan
2022-12-04	nan	nan	nan	nan	nan	nan
2022-12-05	nan	nan	nan	nan	nan	nan
2022-12-06	nan	nan	nan	nan	nan	nan
2022-12-07	nan	nan	nan	nan	nan	nan
2022-12-08	nan	nan	nan	nan	nan	nan
2022-12-09	nan	nan	nan	nan	nan	nan
2022-12-10	nan	nan	nan	nan	nan	nan
2022-12-11	nan	nan	nan	nan	nan	nan
2022-12-12	33.87	2.17	7.37	5.02	1433.33	6450.00
2022-12-13	35.15	2.20	7.30	5.51	1500.00	6750.00
2022-12-14	35.15	2.20	7.32	5.43	1500.00	6750.00
2022-12-15	31.70	2.06	7.22	4.58	823.17	3704.25



ix) Horamavu Agara

Horamavu Agara						
Date	avg_COD	avg_BOD	avg_pH	avg_TSS	avg_Ammonical Nitrogen	avg_Total Nitrogen
2022-11-01	28.21	5.90	7.23	10.69	0.98	2.20
2022-11-02	28.21	5.90	7.23	10.69	0.98	2.20
2022-11-03	28.21	5.90	7.23	10.69	0.98	2.20
2022-11-04	28.21	5.90	7.23	10.69	0.98	2.20
2022-11-05	28.21	5.90	7.23	10.69	0.98	2.20
2022-11-06	28.21	5.90	7.23	10.69	0.98	2.20
2022-11-07	28.21	5.90	7.23	10.69	0.98	2.20
2022-11-08	28.59	5.93	7.25	12.32	0.96	2.46
2022-11-09	30.69	6.41	7.35	20.70	0.87	4.06
2022-11-10	30.55	6.66	7.31	18.73	0.86	4.24
2022-11-11	30.86	6.75	7.32	20.78	0.82	4.38
2022-11-12	31.42	6.41	7.33	26.02	0.73	5.05
2022-11-13	31.89	6.20	7.29	30.72	0.68	5.38
2022-11-14	32.00	6.34	7.30	30.77	0.67	5.04
2022-11-15	29.73	5.95	7.32	33.41	0.70	6.53
2022-11-16	9.90	1.91	7.33	36.02	0.70	6.92
2022-11-17	0.00	0.00	7.33	35.84	0.71	8.33
2022-11-18	0.00	0.00	7.23	40.97	0.68	8.05
2022-11-19	0.00	0.00	7.15	45.57	0.62	7.40
2022-11-20	0.00	0.00	7.15	45.57	0.62	7.40
2022-11-21	0.00	0.00	7.15	45.57	0.62	7.40
2022-11-22	0.00	0.00	7.15	45.57	0.62	7.40
2022-11-23	0.00	0.00	7.15	45.57	0.62	7.40
2022-11-24	0.00	0.00	7.15	45.57	0.62	7.40
2022-11-25	0.00	0.00	7.15	45.57	0.62	7.40
2022-11-26	0.00	0.00	7.15	45.57	0.62	7.40
2022-11-27	0.00	0.00	7.15	45.57	0.62	7.40
2022-11-28	11.51	2.71	7.25	31.81	0.64	6.24
2022-11-29	28.48	6.91	7.40	9.53	0.64	4.86
2022-11-30	28.63	6.91	7.48	10.04	0.60	4.28
2022-12-01	28.51	6.84	7.34	9.36	0.56	3.95
2022-12-02	28.43	6.79	7.37	8.96	0.58	3.53
2022-12-03	28.71	6.83	7.48	10.68	0.61	3.22
2022-12-04	28.89	6.83	7.47	12.09	0.62	3.04
2022-12-05	28.93	6.85	7.45	12.69	0.61	3.02
2022-12-06	28.96	6.89	7.41	12.87	0.60	2.97
2022-12-07	29.03	6.89	7.38	13.20	0.60	2.99
2022-12-08	29.11	6.67	7.36	13.29	0.58	2.98
2022-12-09	29.45	6.64	7.39	13.60	0.56	3.07
2022-12-10	30.68	7.10	7.40	18.92	0.54	3.21
2022-12-11	24.24	5.30	7.34	27.98	0.53	2.66
2022-12-12	31.86	7.60	7.30	24.05	0.55	2.15
2022-12-13	23.79	5.16	7.29	27.49	0.56	1.99
2022-12-14	0.00	0.00	7.31	36.71	0.56	1.81
2022-12-15	0.00	0.00	7.26	41.53	0.56	2.03

Horamavu Agara Ammonical Nitrogen



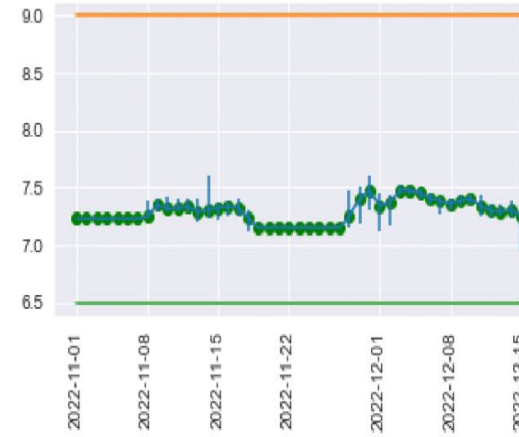
Horamavu Agara BOD



Horamavu Agara COD



Horamavu Agara pH



Horamavu Agara Total Nitrogen

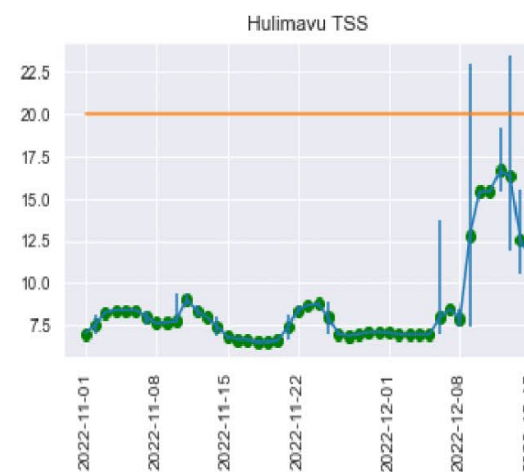
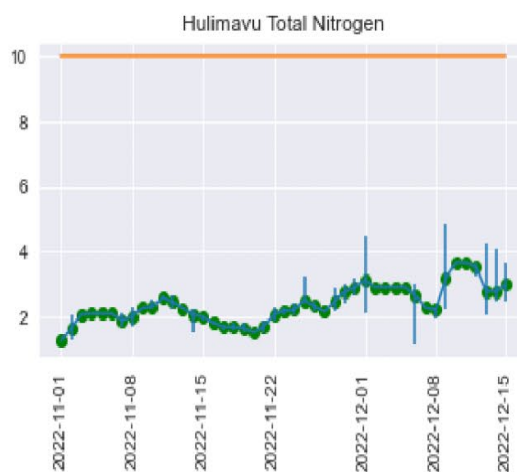
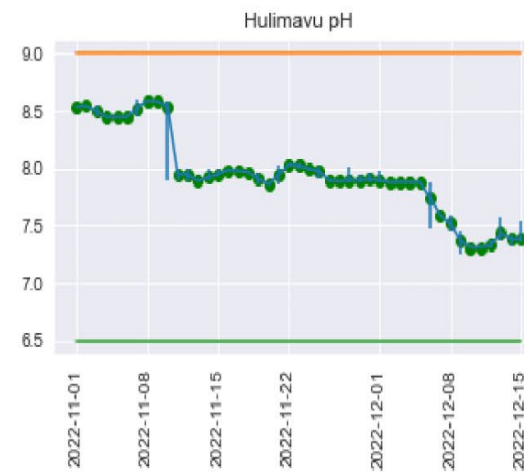
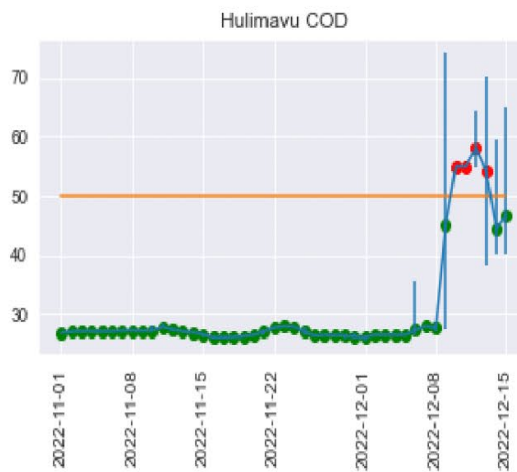
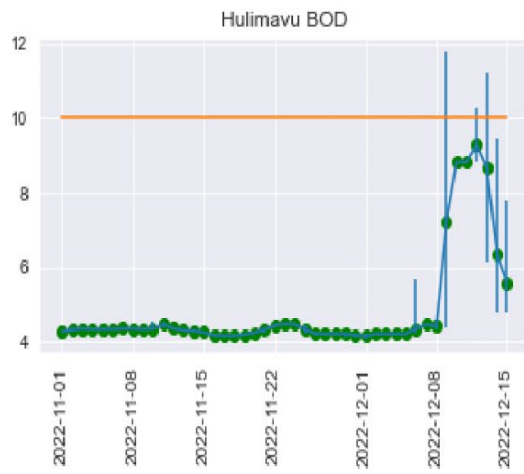
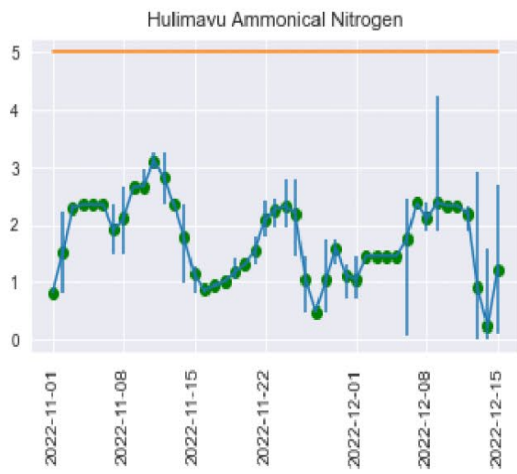


Horamavu Agara TSS



x) Hulimavu

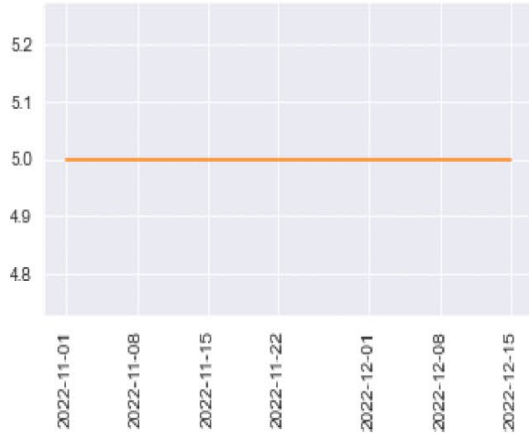
Hulimavu						
Date	avg_COD	avg_BOD	avg_pH	avg_TSS	avg_Ammonical Nitrogen	avg_Total Nitrogen
2022-11-01	27.00	4.28	8.54	7.02	0.82	1.28
2022-11-02	27.15	4.33	8.54	7.56	1.51	1.67
2022-11-03	27.25	4.36	8.49	8.26	2.29	2.08
2022-11-04	27.22	4.34	8.45	8.39	2.35	2.10
2022-11-05	27.22	4.34	8.45	8.39	2.35	2.10
2022-11-06	27.22	4.34	8.45	8.39	2.35	2.10
2022-11-07	27.33	4.36	8.52	7.96	1.90	1.89
2022-11-08	27.36	4.36	8.59	7.62	2.11	2.01
2022-11-09	27.29	4.34	8.58	7.67	2.65	2.28
2022-11-10	27.34	4.36	8.54	7.77	2.67	2.29
2022-11-11	28.00	4.47	7.95	9.04	3.11	2.58
2022-11-12	27.49	4.36	7.94	8.37	2.83	2.45
2022-11-13	27.20	4.31	7.89	7.95	2.36	2.26
2022-11-14	27.02	4.30	7.92	7.46	1.77	2.07
2022-11-15	26.70	4.26	7.95	6.80	1.13	1.99
2022-11-16	26.20	4.18	7.99	6.67	0.86	1.82
2022-11-17	26.17	4.17	7.98	6.65	0.94	1.69
2022-11-18	26.23	4.17	7.97	6.50	1.01	1.68
2022-11-19	26.37	4.20	7.91	6.51	1.17	1.66
2022-11-20	26.60	4.25	7.86	6.60	1.31	1.52
2022-11-21	27.16	4.33	7.95	7.38	1.56	1.70
2022-11-22	27.84	4.44	8.03	8.39	2.09	2.07
2022-11-23	28.07	4.48	8.02	8.70	2.27	2.19
2022-11-24	28.01	4.47	8.00	8.75	2.32	2.21
2022-11-25	27.20	4.34	7.97	7.97	2.20	2.50
2022-11-26	26.44	4.23	7.89	7.00	1.05	2.33
2022-11-27	26.56	4.22	7.89	6.87	0.49	2.17
2022-11-28	26.55	4.22	7.90	6.95	1.04	2.47
2022-11-29	26.48	4.22	7.90	7.08	1.59	2.77
2022-11-30	26.30	4.19	7.91	7.10	1.12	2.89
2022-12-01	26.17	4.16	7.89	7.03	1.05	3.13
2022-12-02	26.59	4.22	7.88	6.94	1.46	2.91
2022-12-03	26.59	4.22	7.88	6.94	1.46	2.91
2022-12-04	26.59	4.22	7.88	6.94	1.46	2.91
2022-12-05	26.59	4.22	7.88	6.94	1.46	2.91
2022-12-06	27.43	4.36	7.74	7.93	1.76	2.65
2022-12-07	28.11	4.47	7.59	8.44	2.37	2.28
2022-12-08	27.79	4.43	7.52	7.91	2.11	2.22
2022-12-09	45.17	7.21	7.37	12.83	2.39	3.17
2022-12-10	55.04	8.81	7.31	15.44	2.34	3.67
2022-12-11	55.04	8.81	7.31	15.44	2.34	3.67
2022-12-12	58.00	9.27	7.33	16.65	2.19	3.53
2022-12-13	54.26	8.66	7.44	16.30	0.91	2.79
2022-12-14	44.49	6.37	7.38	12.52	0.24	2.78
2022-12-15	46.77	5.60	7.38	11.46	1.22	3.01



xi) Jakkur

Jakkur						
Date	avg_COD	avg_BOD	avg_pH	avg_TSS	avg_Ammonical Nitrogen	avg_Total Nitrogen
2022-11-01	287.63	44.82	8.97	0.90	nan	nan
2022-11-02	289.84	40.42	8.97	0.91	nan	nan
2022-11-03	287.92	39.58	8.97	0.90	nan	nan
2022-11-04	282.13	42.33	8.97	0.90	nan	nan
2022-11-05	277.03	45.16	8.97	0.90	nan	nan
2022-11-06	281.74	47.43	8.97	0.90	nan	nan
2022-11-07	282.61	48.94	8.97	0.90	nan	nan
2022-11-08	285.23	48.71	8.97	0.90	nan	nan
2022-11-09	283.80	49.12	8.97	0.90	nan	nan
2022-11-10	284.98	48.40	8.97	0.90	nan	nan
2022-11-11	288.10	46.66	8.97	0.90	nan	nan
2022-11-12	291.35	45.21	8.97	0.91	nan	nan
2022-11-13	287.36	46.90	8.97	0.91	nan	nan
2022-11-14	285.52	47.54	8.97	0.90	nan	nan
2022-11-15	288.75	45.15	8.97	0.90	nan	nan
2022-11-16	275.97	42.09	8.96	0.90	nan	nan
2022-11-17	254.12	37.08	8.97	0.90	nan	nan
2022-11-18	259.79	37.75	8.97	0.91	nan	nan
2022-11-19	262.90	37.98	8.97	0.91	nan	nan
2022-11-20	266.92	38.10	8.97	0.91	nan	nan
2022-11-21	271.74	38.20	8.97	0.91	nan	nan
2022-11-22	272.03	38.27	8.97	0.90	nan	nan
2022-11-23	270.88	38.34	8.97	0.90	nan	nan
2022-11-24	269.64	38.29	8.97	0.90	nan	nan
2022-11-25	269.64	38.23	8.97	0.90	nan	nan
2022-11-26	269.63	37.76	8.97	0.90	nan	nan
2022-11-27	269.68	37.82	8.96	0.90	nan	nan
2022-11-28	269.28	37.72	8.96	0.90	nan	nan
2022-11-29	269.93	37.77	8.96	0.90	nan	nan
2022-11-30	273.10	37.83	8.97	0.91	nan	nan
2022-12-01	276.18	37.90	8.97	0.90	nan	nan
2022-12-02	277.48	38.03	8.97	0.91	nan	nan
2022-12-03	276.54	37.92	8.97	0.90	nan	nan
2022-12-04	276.45	37.78	8.97	0.90	nan	nan
2022-12-05	276.48	37.78	8.97	0.90	nan	nan
2022-12-06	276.48	37.78	8.97	0.90	nan	nan
2022-12-07	276.48	37.78	8.97	0.90	nan	nan
2022-12-08	276.48	37.78	8.97	0.90	nan	nan
2022-12-09	276.48	37.78	8.97	0.90	nan	nan
2022-12-10	276.48	37.78	8.97	0.90	nan	nan
2022-12-11	276.48	37.78	8.97	0.90	nan	nan
2022-12-12	276.48	37.78	8.97	0.90	nan	nan
2022-12-13	276.48	37.78	8.97	0.90	nan	nan
2022-12-14	276.48	37.78	8.97	0.90	nan	nan
2022-12-15	276.48	37.78	8.97	0.90	nan	nan

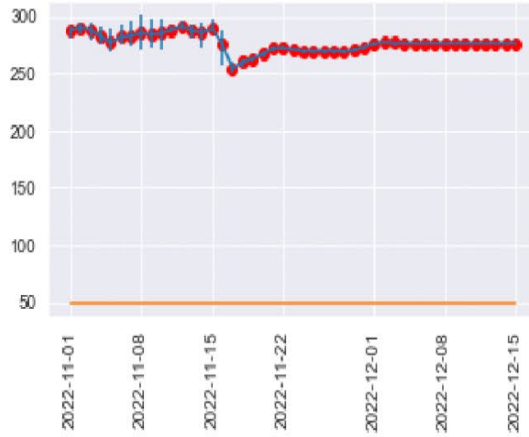
Jakkur Ammonical Nitrogen



Jakkur BOD



Jakkur COD



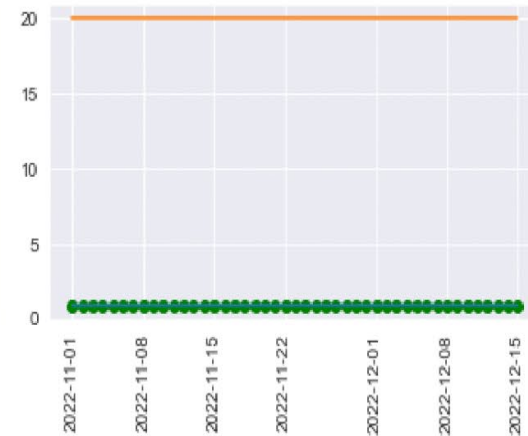
Jakkur pH



Jakkur Total Nitrogen



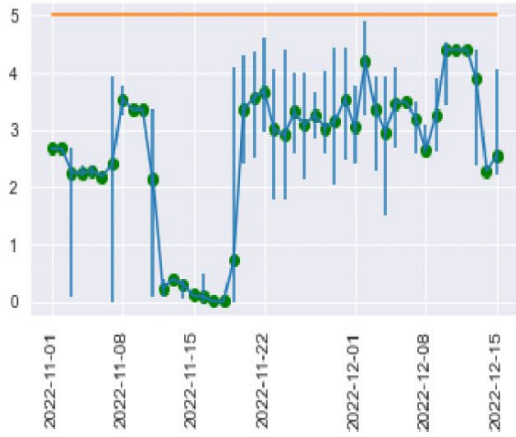
Jakkur TSS



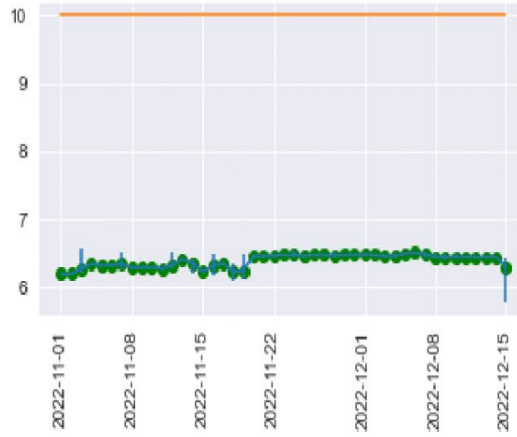
xii) K.R.Puram

K.R.Puram						
Date	avg_COD	avg_BOD	avg_pH	avg_TSS	avg_Ammonical Nitrogen	avg_Total Nitrogen
2022-11-01	40.00	6.19	7.58	6.69	2.67	3.73
2022-11-02	40.00	6.19	7.58	6.69	2.67	3.73
2022-11-03	40.65	6.27	7.71	6.68	2.26	2.81
2022-11-04	41.32	6.34	7.60	6.75	2.24	2.35
2022-11-05	41.17	6.31	7.58	6.74	2.29	2.37
2022-11-06	41.18	6.31	7.59	6.73	2.19	2.23
2022-11-07	41.22	6.33	7.61	6.69	2.40	2.31
2022-11-08	40.84	6.28	7.41	6.71	3.54	3.76
2022-11-09	40.92	6.28	7.32	6.71	3.36	3.65
2022-11-10	40.92	6.28	7.32	6.71	3.36	3.65
2022-11-11	40.78	6.27	7.45	6.70	2.14	2.88
2022-11-12	41.00	6.31	8.01	6.55	0.24	0.56
2022-11-13	41.65	6.41	8.58	6.30	0.39	-1.03
2022-11-14	41.24	6.35	8.31	6.42	0.30	-0.25
2022-11-15	40.26	6.22	7.67	6.68	0.11	1.55
2022-11-16	40.84	6.30	7.90	6.56	0.10	0.44
2022-11-17	41.03	6.34	8.01	6.42	0.01	-0.47
2022-11-18	40.33	6.22	7.62	6.36	0.01	-0.78
2022-11-19	40.51	6.23	7.32	6.49	0.74	0.44
2022-11-20	41.97	6.45	6.39	6.82	3.36	4.14
2022-11-21	42.02	6.45	6.29	6.83	3.57	4.35
2022-11-22	42.09	6.46	6.90	6.83	3.68	4.32
2022-11-23	42.14	6.47	6.86	6.83	3.01	3.80
2022-11-24	42.17	6.47	7.19	6.69	2.91	3.67
2022-11-25	42.09	6.46	6.72	6.76	3.31	3.99
2022-11-26	42.13	6.47	7.47	6.83	3.09	3.87
2022-11-27	42.13	6.47	8.31	6.83	3.27	3.92
2022-11-28	42.00	6.46	8.36	6.83	3.04	3.78
2022-11-29	42.15	6.47	8.37	6.83	3.16	3.77
2022-11-30	42.08	6.47	8.33	6.83	3.54	4.16
2022-12-01	42.11	6.47	8.33	6.83	3.05	3.75
2022-12-02	42.08	6.47	8.28	6.83	4.20	4.57
2022-12-03	41.99	6.45	8.29	6.83	3.38	4.07
2022-12-04	41.98	6.46	8.29	6.83	2.96	3.81
2022-12-05	39.67	6.49	8.29	6.74	3.48	3.96
2022-12-06	34.77	6.50	8.30	6.72	3.50	3.85
2022-12-07	40.67	6.48	8.31	6.76	3.20	2.57
2022-12-08	41.87	6.44	8.56	6.84	2.66	3.46
2022-12-09	41.86	6.43	9.66	6.82	3.27	4.07
2022-12-10	41.91	6.44	9.67	6.82	4.41	4.89
2022-12-11	41.96	6.44	9.68	6.81	4.41	4.90
2022-12-12	41.96	6.44	9.68	6.81	4.41	4.90
2022-12-13	41.95	6.44	9.72	6.82	3.88	4.52
2022-12-14	41.95	6.44	9.79	6.82	2.29	3.38
2022-12-15	41.03	6.29	9.80	6.82	2.56	3.58

K.R.Puram Ammonical Nitrogen



K.R.Puram BOD



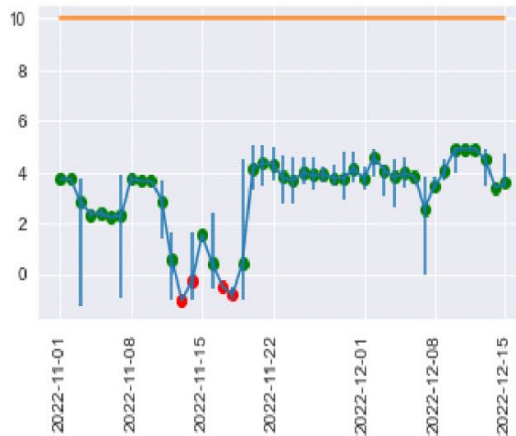
K.R.Puram COD



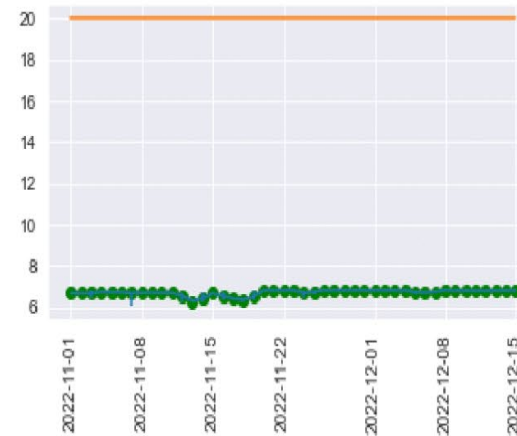
K.R.Puram pH



K.R.Puram Total Nitrogen



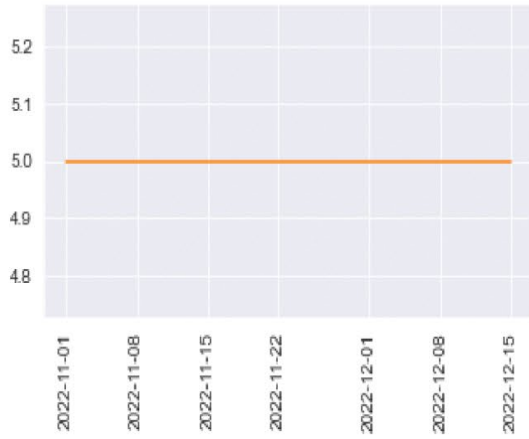
K.R.Puram TSS



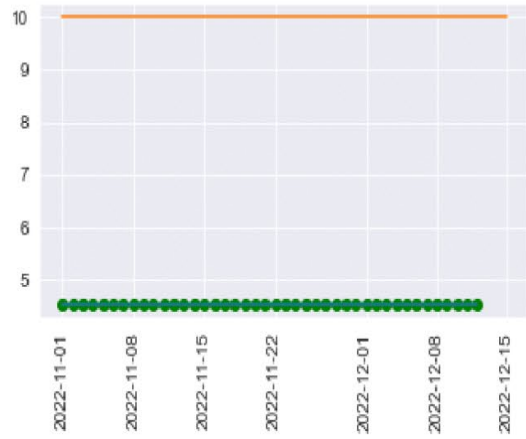
xiii) K&C Valley 30

K&C Valley 30						
Date	avg_COD	avg_BOD	avg_pH	avg_TSS	avg_Ammonical Nitrogen	avg_Total Nitrogen
2022-11-01	25.05	4.53	7.75	4.11	nan	nan
2022-11-02	25.05	4.53	7.75	4.11	nan	nan
2022-11-03	25.05	4.53	7.75	4.11	nan	nan
2022-11-04	25.05	4.53	7.75	4.11	nan	nan
2022-11-05	25.05	4.53	7.75	4.11	nan	nan
2022-11-06	25.05	4.53	7.75	4.11	nan	nan
2022-11-07	25.05	4.53	7.75	4.11	nan	nan
2022-11-08	25.05	4.53	7.75	4.11	nan	nan
2022-11-09	25.05	4.53	7.75	4.11	nan	nan
2022-11-10	25.05	4.53	7.75	4.11	nan	nan
2022-11-11	25.05	4.53	7.75	4.11	nan	nan
2022-11-12	25.05	4.53	7.75	4.11	nan	nan
2022-11-13	25.05	4.53	7.75	4.11	nan	nan
2022-11-14	25.05	4.53	7.75	4.11	nan	nan
2022-11-15	25.05	4.53	7.75	4.11	nan	nan
2022-11-16	25.05	4.53	7.75	4.11	nan	nan
2022-11-17	25.05	4.53	7.75	4.11	nan	nan
2022-11-18	25.05	4.53	7.75	4.11	nan	nan
2022-11-19	25.05	4.53	7.75	4.11	nan	nan
2022-11-20	25.05	4.53	7.75	4.11	nan	nan
2022-11-21	25.05	4.53	7.75	4.11	nan	nan
2022-11-22	25.05	4.53	7.75	4.11	nan	nan
2022-11-23	25.05	4.53	7.75	4.11	nan	nan
2022-11-24	25.05	4.53	7.75	4.11	nan	nan
2022-11-25	25.05	4.53	7.75	4.11	nan	nan
2022-11-26	25.05	4.53	7.75	4.11	nan	nan
2022-11-27	25.05	4.53	7.75	4.11	nan	nan
2022-11-28	25.05	4.53	7.75	4.11	nan	nan
2022-11-29	25.05	4.53	7.75	4.11	nan	nan
2022-11-30	25.05	4.53	7.75	4.11	nan	nan
2022-12-01	25.05	4.53	7.75	4.11	nan	nan
2022-12-02	25.05	4.53	7.75	4.11	nan	nan
2022-12-03	25.05	4.53	7.75	4.11	nan	nan
2022-12-04	25.05	4.53	7.75	4.11	nan	nan
2022-12-05	25.05	4.53	7.75	4.11	nan	nan
2022-12-06	25.05	4.53	7.75	4.11	nan	nan
2022-12-07	25.05	4.53	7.75	4.11	nan	nan
2022-12-08	25.05	4.53	7.75	4.11	nan	nan
2022-12-09	25.05	4.53	7.75	4.11	nan	nan
2022-12-10	25.05	4.53	7.75	4.11	nan	nan
2022-12-11	25.05	4.53	7.75	4.11	nan	nan
2022-12-12	25.05	4.53	7.75	4.11	nan	nan
2022-12-13	nan	nan	nan	nan	nan	nan
2022-12-14	nan	nan	nan	nan	nan	nan
2022-12-15	nan	nan	nan	nan	nan	nan

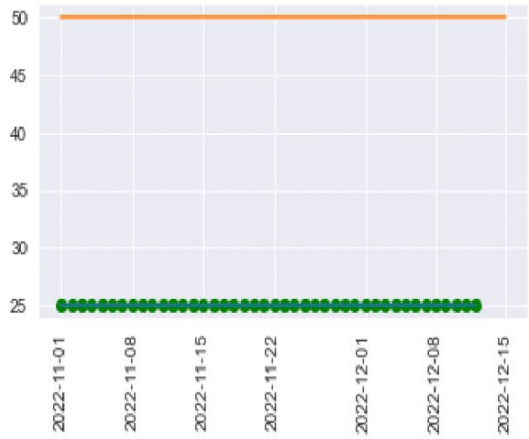
K&C Valley 30 Ammonical Nitrogen



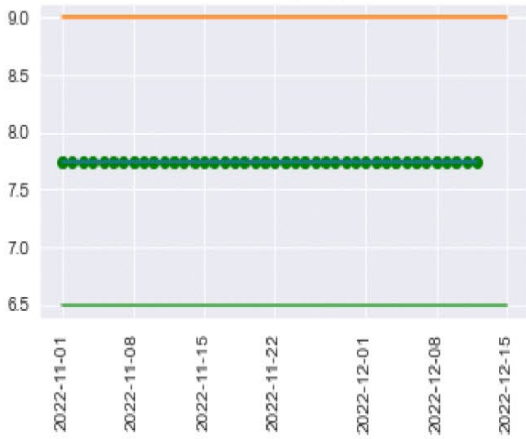
K&C Valley 30 BOD



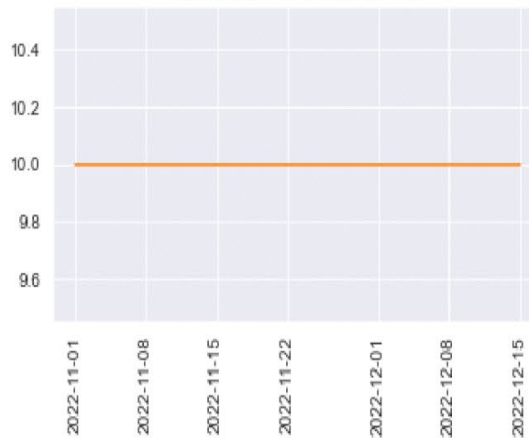
K&C Valley 30 COD



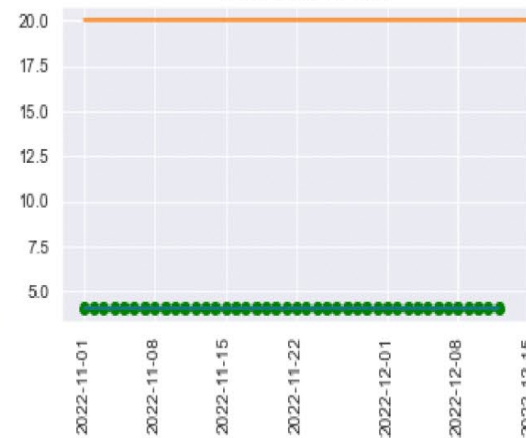
K&C Valley 30 pH



K&C Valley 30 Total Nitrogen



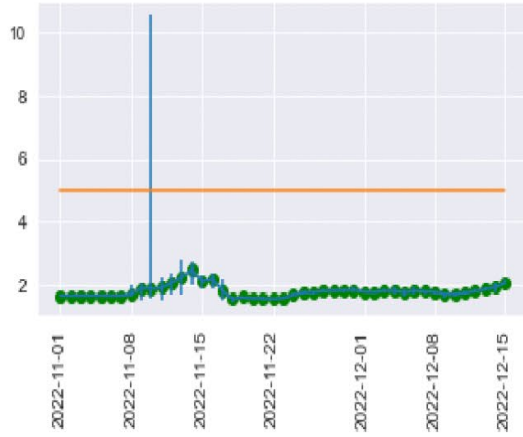
K&C Valley 30 TSS



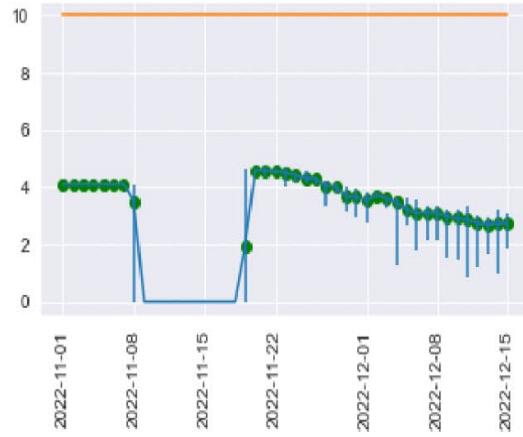
xiv) K&C Valley 60

K&C Valley 60						
Date	avg_COD	avg_BOD	avg_pH	avg_TSS	avg_Ammonical Nitrogen	avg_Total Nitrogen
2022-11-01	23.38	4.11	7.30	11.13	1.66	4.10
2022-11-02	23.38	4.11	7.30	11.13	1.66	4.10
2022-11-03	23.38	4.11	7.30	11.13	1.66	4.10
2022-11-04	23.38	4.11	7.30	11.13	1.66	4.10
2022-11-05	23.38	4.11	7.30	11.13	1.66	4.10
2022-11-06	23.38	4.11	7.30	11.13	1.66	4.10
2022-11-07	23.38	4.11	7.30	11.13	1.66	4.10
2022-11-08	26.51	3.50	7.30	11.86	1.70	4.14
2022-11-09	47.59	0.00	7.27	17.70	1.90	4.46
2022-11-10	47.18	0.00	7.33	16.77	1.88	4.62
2022-11-11	46.13	0.00	7.32	15.80	1.91	4.58
2022-11-12	47.47	0.00	7.28	16.85	2.06	4.44
2022-11-13	50.19	0.00	7.23	17.53	2.26	4.27
2022-11-14	49.78	0.00	7.25	17.35	2.46	4.18
2022-11-15	49.58	0.00	7.36	17.34	2.12	4.64
2022-11-16	50.21	0.00	7.35	17.61	2.18	4.47
2022-11-17	50.47	0.00	7.41	17.71	1.83	4.70
2022-11-18	50.85	0.00	7.47	17.93	1.55	4.79
2022-11-19	38.31	1.96	7.49	13.12	1.60	4.57
2022-11-20	21.71	4.60	7.49	6.98	1.58	4.35
2022-11-21	21.74	4.57	7.48	7.02	1.57	4.38
2022-11-22	21.52	4.55	7.59	6.91	1.55	4.38
2022-11-23	21.81	4.50	7.61	7.07	1.58	4.37
2022-11-24	22.18	4.41	7.59	7.27	1.68	4.31
2022-11-25	22.22	4.32	7.55	7.26	1.75	4.26
2022-11-26	21.77	4.28	7.55	7.00	1.76	4.22
2022-11-27	24.33	4.06	7.51	8.39	1.80	4.19
2022-11-28	22.79	4.03	7.45	7.56	1.81	4.14
2022-11-29	27.55	3.67	7.47	10.16	1.82	4.12
2022-11-30	27.06	3.66	7.49	9.92	1.84	4.11
2022-12-01	27.61	3.54	7.49	10.18	1.78	4.16
2022-12-02	23.13	3.71	7.47	7.68	1.77	4.20
2022-12-03	23.64	3.62	7.44	7.97	1.81	4.13
2022-12-04	25.41	3.46	7.41	8.95	1.81	4.06
2022-12-05	27.48	3.22	7.40	10.12	1.75	4.02
2022-12-06	27.96	3.09	7.39	10.23	1.81	3.97
2022-12-07	25.42	3.11	7.40	8.77	1.79	4.01
2022-12-08	25.09	3.09	7.41	8.56	1.77	4.07
2022-12-09	25.36	2.97	7.41	8.67	1.71	4.15
2022-12-10	25.97	2.91	7.42	8.95	1.70	4.19
2022-12-11	25.86	2.86	7.43	8.66	1.74	4.14
2022-12-12	25.13	2.74	7.41	8.31	1.80	4.10
2022-12-13	24.74	2.70	7.41	8.01	1.85	4.10
2022-12-14	25.00	2.73	7.34	8.07	1.93	4.12
2022-12-15	25.38	2.74	7.40	8.20	2.06	4.07

K&C Valley 60 Ammonical Nitrogen



K&C Valley 60 BOD



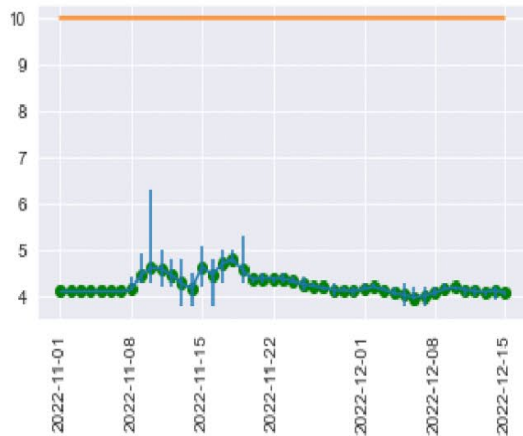
K&C Valley 60 COD



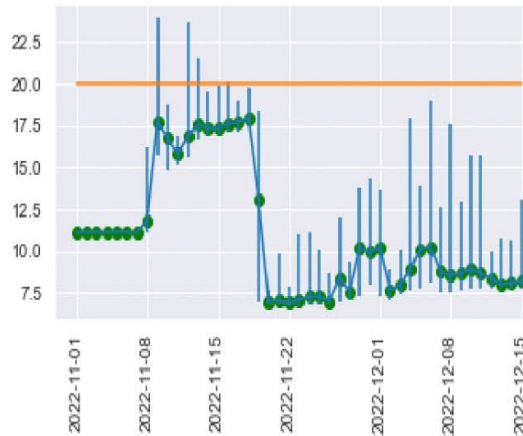
K&C Valley 60 pH



K&C Valley 60 Total Nitrogen



K&C Valley 60 TSS



xv) Kadabeesanahalli

Kadabeesanahalli						
Date	avg_COD	avg_BOD	avg_pH	avg_TSS	avg_Ammonical Nitrogen	avg_Total Nitrogen
2022-11-01	55.94	9.50	8.07	17.38	0.85	4.25
2022-11-02	55.94	9.50	8.07	17.38	0.85	4.25
2022-11-03	55.94	9.50	8.07	17.38	0.85	4.25
2022-11-04	55.94	9.50	8.07	17.38	0.85	4.25
2022-11-05	55.94	9.50	8.07	17.38	0.85	4.25
2022-11-06	55.94	9.50	8.07	17.38	0.85	4.25
2022-11-07	55.94	9.50	8.07	17.38	0.85	4.25
2022-11-08	57.77	9.57	8.06	18.27	0.81	4.03
2022-11-09	65.50	10.03	7.67	22.10	0.47	2.33
2022-11-10	86.12	8.98	7.78	35.58	0.46	2.32
2022-11-11	87.71	8.59	7.87	39.53	0.48	2.40
2022-11-12	80.28	9.07	7.48	32.60	0.39	1.96
2022-11-13	48.16	9.30	7.33	15.67	1.73	8.65
2022-11-14	46.08	9.65	7.35	13.40	0.56	1.24
2022-11-15	45.14	10.10	7.47	11.23	0.13	0.65
2022-11-16	45.18	10.15	7.40	11.20	0.23	1.14
2022-11-17	45.36	10.19	7.41	11.22	0.28	1.39
2022-11-18	45.52	10.22	7.51	11.25	0.32	1.62
2022-11-19	46.80	10.19	7.71	12.10	0.34	1.69
2022-11-20	45.88	10.23	7.89	11.35	0.36	1.78
2022-11-21	53.85	10.57	7.67	15.95	0.54	2.02
2022-11-22	45.00	10.41	7.96	10.71	0.31	1.56
2022-11-23	61.65	10.79	8.03	18.75	0.32	1.61
2022-11-24	51.86	10.69	8.06	13.64	0.32	1.62
2022-11-25	49.21	10.66	8.09	12.33	0.33	1.65
2022-11-26	49.51	10.67	8.10	12.44	0.34	1.72
2022-11-27	49.98	10.72	8.11	12.57	0.35	1.77
2022-11-28	49.36	10.76	8.11	11.99	0.36	1.81
2022-11-29	50.43	10.84	8.12	12.23	0.37	1.84
2022-11-30	51.55	10.90	8.13	12.75	0.37	1.84
2022-12-01	53.79	10.95	8.16	13.87	0.37	1.83
2022-12-02	53.15	10.86	8.15	13.51	0.37	1.86
2022-12-03	54.43	10.70	8.15	13.86	0.38	1.90
2022-12-04	56.03	10.61	8.13	14.60	0.41	2.03
2022-12-05	56.35	10.79	8.11	14.68	0.43	2.15
2022-12-06	57.17	10.89	8.11	14.86	0.43	2.16
2022-12-07	55.90	10.80	8.14	14.47	0.41	2.07
2022-12-08	55.49	10.78	8.16	14.48	0.41	2.06
2022-12-09	54.98	10.80	8.16	14.19	0.41	2.05
2022-12-10	54.98	10.80	8.16	14.19	0.41	2.05
2022-12-11	54.98	10.80	8.16	14.19	0.41	2.05
2022-12-12	54.98	10.80	8.16	14.19	0.41	2.05
2022-12-13	54.98	10.80	8.16	14.19	0.41	2.05
2022-12-14	46.65	10.20	8.09	11.56	0.59	2.90
2022-12-15	40.05	9.71	8.08	9.51	0.80	3.90

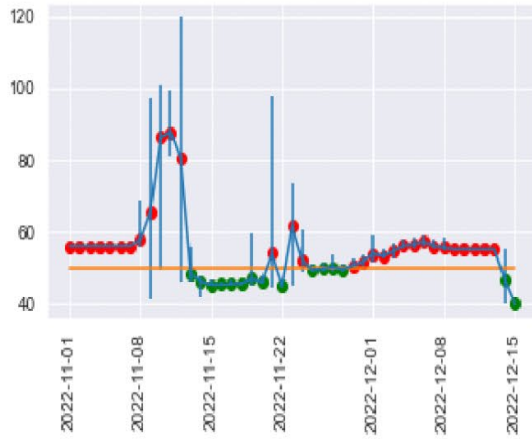
Kadabeesanahalli Ammonical Nitrogen



Kadabeesanahalli BOD



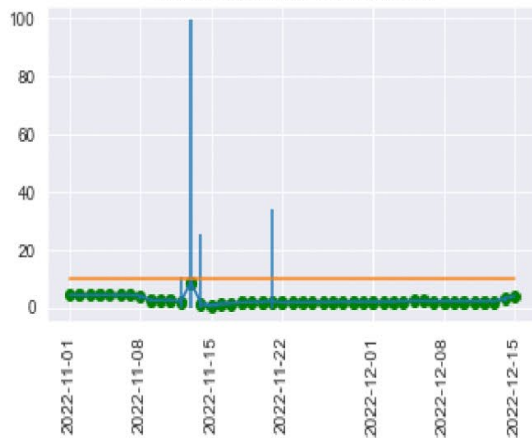
Kadabeesanahalli COD



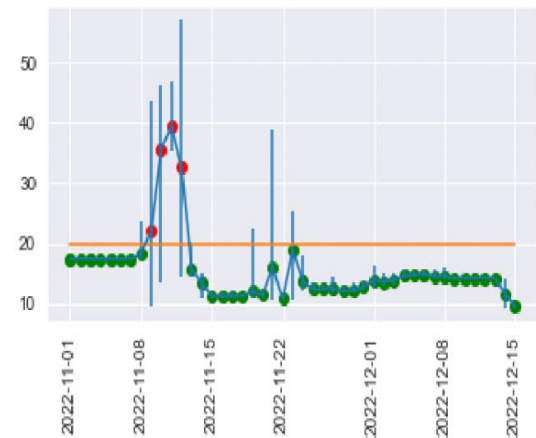
Kadabeesanahalli pH



Kadabeesanahalli Total Nitrogen

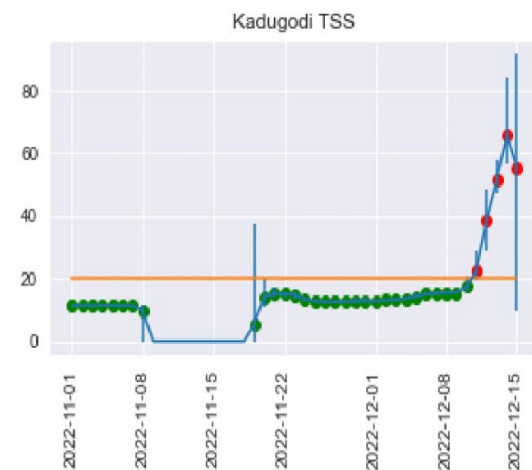
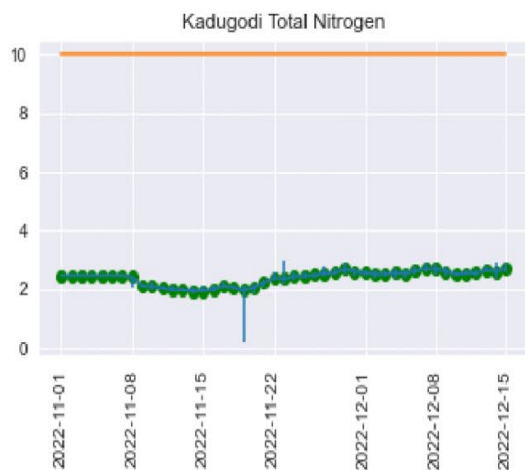
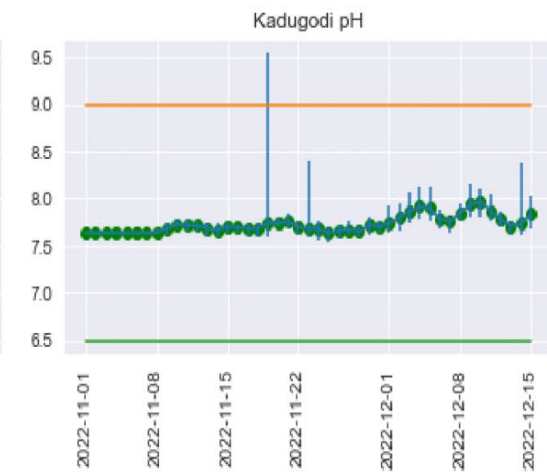
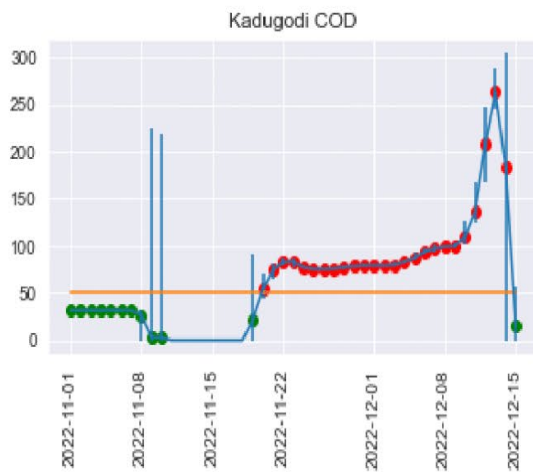
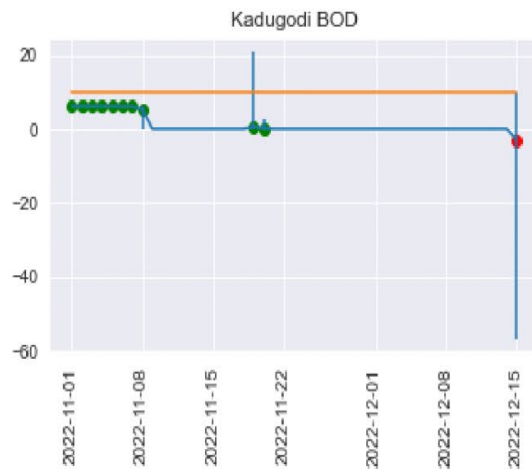
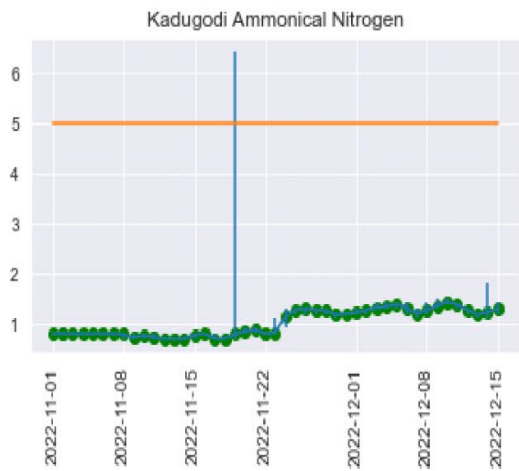


Kadabeesanahalli TSS



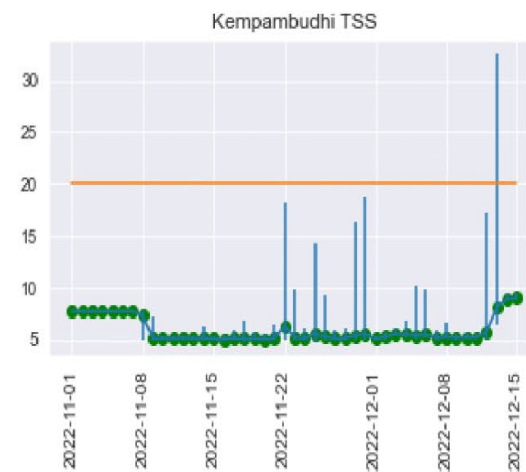
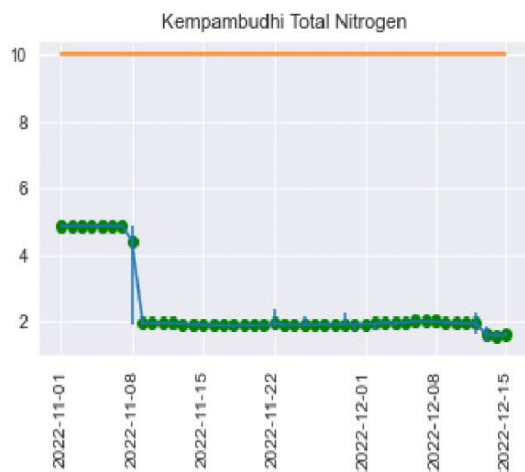
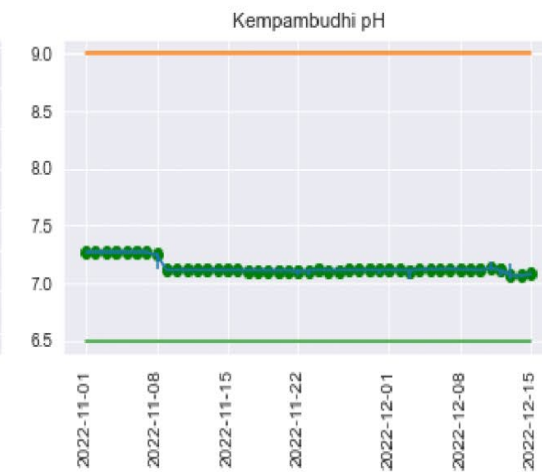
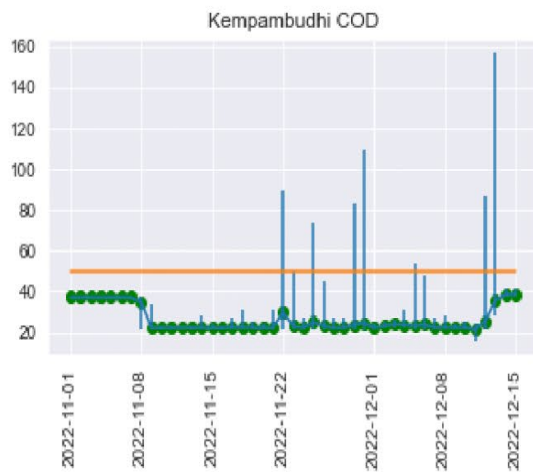
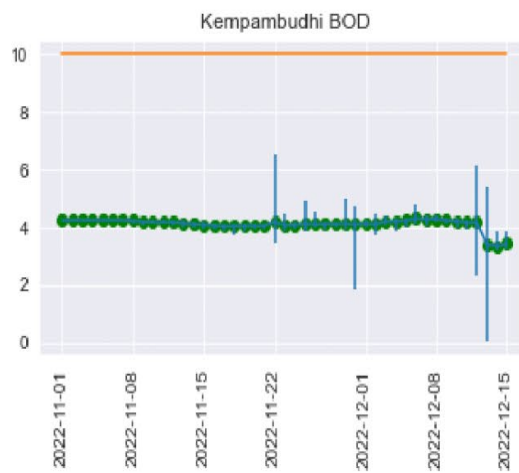
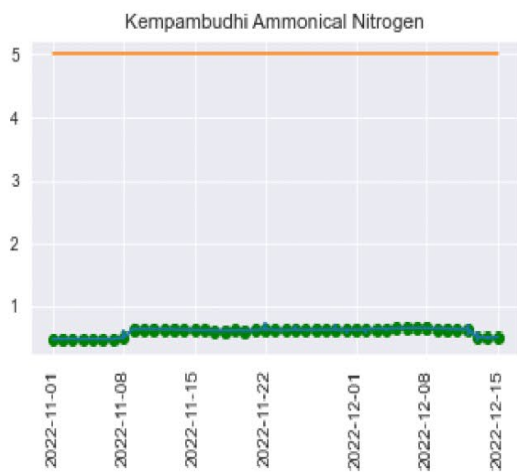
xvi) Kadugodi

Kadugodi						
Date	avg_COD	avg_BOD	avg_pH	avg_TSS	avg_Ammonical Nitrogen	avg_Total Nitrogen
2022-11-01	31.61	6.11	7.64	11.38	0.80	2.46
2022-11-02	31.61	6.11	7.64	11.38	0.80	2.46
2022-11-03	31.61	6.11	7.64	11.38	0.80	2.46
2022-11-04	31.61	6.11	7.64	11.38	0.80	2.46
2022-11-05	31.61	6.11	7.64	11.38	0.80	2.46
2022-11-06	31.61	6.11	7.64	11.38	0.80	2.46
2022-11-07	31.61	6.11	7.64	11.38	0.80	2.46
2022-11-08	26.89	5.20	7.64	9.68	0.79	2.41
2022-11-09	3.13	0.00	7.68	0.00	0.72	2.08
2022-11-10	3.04	0.00	7.73	0.00	0.77	2.07
2022-11-11	0.00	0.00	7.72	0.00	0.73	2.01
2022-11-12	0.00	0.00	7.72	0.00	0.70	1.97
2022-11-13	0.00	0.00	7.69	0.00	0.70	1.95
2022-11-14	0.00	0.00	7.67	0.00	0.70	1.93
2022-11-15	0.00	0.00	7.70	0.00	0.77	1.93
2022-11-16	0.00	0.00	7.70	0.00	0.80	1.98
2022-11-17	0.00	0.00	7.69	0.00	0.71	2.08
2022-11-18	0.00	0.00	7.68	0.00	0.70	2.04
2022-11-19	21.40	0.56	7.74	5.43	0.79	1.94
2022-11-20	53.87	0.11	7.74	14.07	0.83	2.03
2022-11-21	74.25	0.00	7.75	15.05	0.88	2.21
2022-11-22	82.75	0.00	7.70	14.95	0.80	2.37
2022-11-23	83.79	0.00	7.69	14.78	0.82	2.34
2022-11-24	77.29	0.00	7.68	13.47	1.13	2.43
2022-11-25	75.48	0.00	7.64	12.80	1.28	2.44
2022-11-26	75.34	0.00	7.67	12.59	1.29	2.46
2022-11-27	75.70	0.00	7.67	12.57	1.28	2.52
2022-11-28	77.41	0.00	7.65	12.66	1.26	2.54
2022-11-29	78.39	0.00	7.72	12.69	1.18	2.67
2022-11-30	79.24	0.00	7.70	12.80	1.20	2.58
2022-12-01	79.26	0.00	7.74	12.85	1.22	2.55
2022-12-02	79.17	0.00	7.80	13.04	1.27	2.50
2022-12-03	79.80	0.00	7.87	13.21	1.31	2.50
2022-12-04	83.23	0.00	7.92	13.62	1.34	2.54
2022-12-05	87.48	0.00	7.90	14.21	1.38	2.52
2022-12-06	94.14	0.00	7.78	14.95	1.30	2.61
2022-12-07	96.84	0.00	7.76	15.23	1.20	2.68
2022-12-08	99.33	0.00	7.85	15.45	1.26	2.67
2022-12-09	99.53	0.00	7.94	15.40	1.36	2.59
2022-12-10	109.98	0.00	7.97	17.34	1.42	2.51
2022-12-11	136.95	0.00	7.88	22.47	1.38	2.52
2022-12-12	208.04	0.00	7.78	38.72	1.27	2.54
2022-12-13	263.65	0.00	7.71	51.48	1.19	2.64
2022-12-14	183.24	0.00	7.74	65.90	1.23	2.58
2022-12-15	16.59	-3.13	7.84	55.28	1.30	2.69



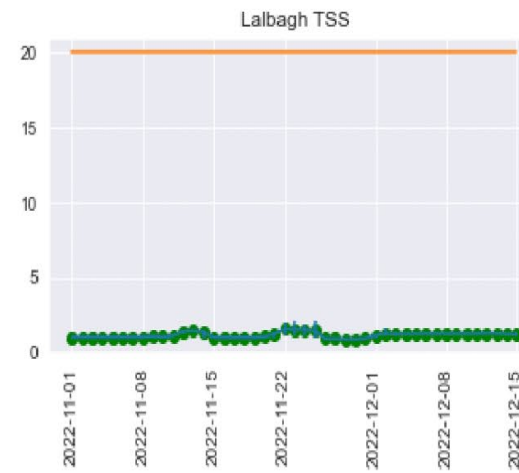
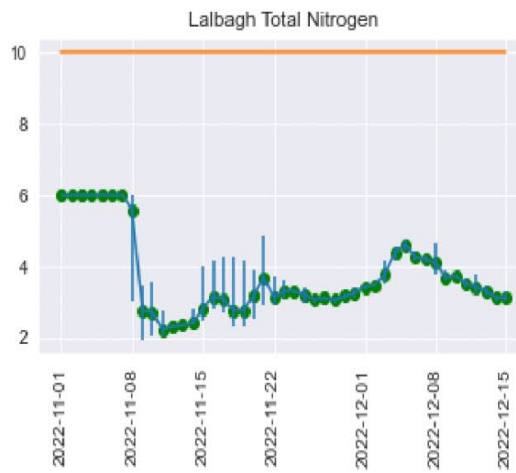
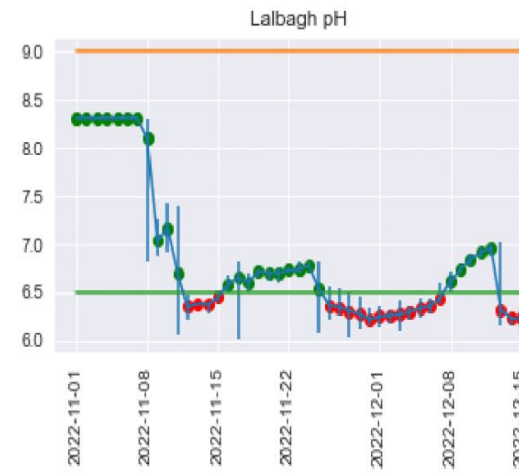
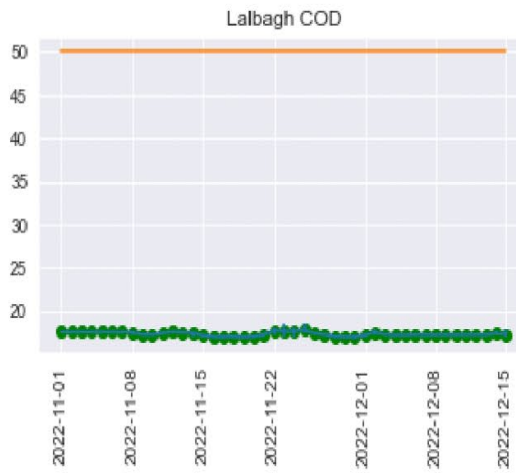
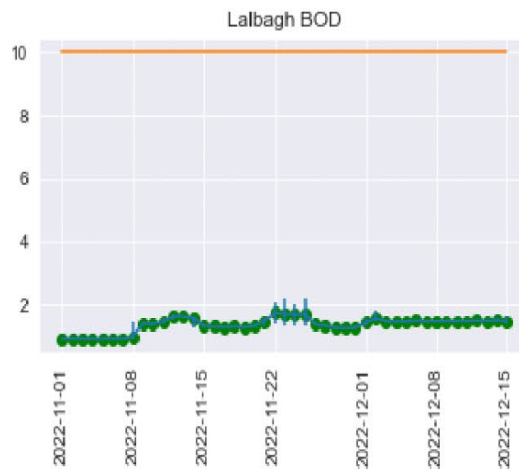
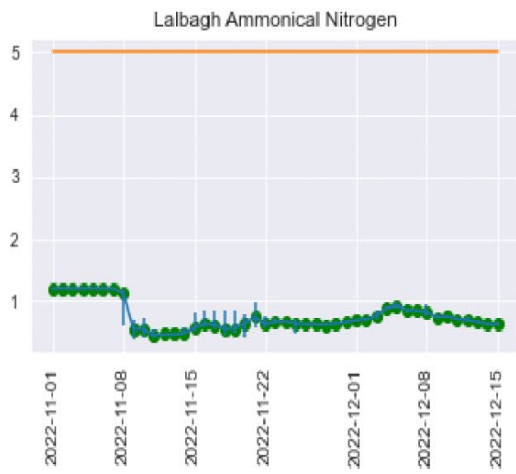
xvii) Kempambudhi

Kempambudhi						
Date	avg_COD	avg_BOD	avg_pH	avg_TSS	avg_Ammonical Nitrogen	avg_Total Nitrogen
2022-11-01	37.17	4.25	7.27	7.70	0.48	4.85
2022-11-02	37.17	4.25	7.27	7.70	0.48	4.85
2022-11-03	37.17	4.25	7.27	7.70	0.48	4.85
2022-11-04	37.17	4.25	7.27	7.70	0.48	4.85
2022-11-05	37.17	4.25	7.27	7.70	0.48	4.85
2022-11-06	37.17	4.25	7.27	7.70	0.48	4.85
2022-11-07	37.17	4.25	7.27	7.70	0.48	4.85
2022-11-08	34.88	4.24	7.25	7.30	0.50	4.42
2022-11-09	22.13	4.19	7.11	5.07	0.63	1.95
2022-11-10	22.38	4.18	7.11	5.14	0.63	1.95
2022-11-11	22.30	4.18	7.11	5.11	0.63	1.95
2022-11-12	22.44	4.18	7.11	5.14	0.63	1.94
2022-11-13	22.33	4.14	7.11	5.11	0.62	1.92
2022-11-14	22.37	4.10	7.11	5.10	0.62	1.91
2022-11-15	22.26	4.09	7.11	5.05	0.61	1.90
2022-11-16	22.15	4.06	7.11	5.01	0.61	1.89
2022-11-17	22.72	4.03	7.11	5.12	0.61	1.87
2022-11-18	22.57	4.04	7.11	5.08	0.61	1.88
2022-11-19	22.38	4.05	7.11	5.07	0.61	1.88
2022-11-20	22.23	4.05	7.11	5.04	0.61	1.88
2022-11-21	22.34	4.05	7.11	5.05	0.61	1.88
2022-11-22	29.61	4.20	7.10	6.34	0.63	1.94
2022-11-23	23.18	4.07	7.11	5.22	0.61	1.90
2022-11-24	22.31	4.08	7.11	5.05	0.61	1.90
2022-11-25	25.12	4.11	7.11	5.53	0.62	1.91
2022-11-26	23.34	4.10	7.11	5.25	0.61	1.90
2022-11-27	22.25	4.12	7.11	5.07	0.62	1.92
2022-11-28	22.35	4.11	7.11	5.10	0.62	1.91
2022-11-29	23.82	4.12	7.11	5.36	0.62	1.91
2022-11-30	24.77	4.09	7.11	5.50	0.62	1.91
2022-12-01	22.38	4.13	7.11	5.06	0.62	1.91
2022-12-02	23.32	4.10	7.11	5.25	0.62	1.93
2022-12-03	24.04	4.20	7.11	5.50	0.63	1.97
2022-12-04	23.83	4.21	7.11	5.51	0.63	1.96
2022-12-05	23.33	4.24	7.12	5.33	0.64	1.98
2022-12-06	23.89	4.30	7.12	5.43	0.64	2.00
2022-12-07	22.35	4.29	7.12	5.15	0.64	1.99
2022-12-08	22.56	4.29	7.12	5.22	0.64	1.99
2022-12-09	22.44	4.24	7.11	5.18	0.64	1.98
2022-12-10	22.50	4.21	7.11	5.18	0.63	1.96
2022-12-11	21.39	4.17	7.13	5.17	0.63	1.94
2022-12-12	25.69	4.16	7.11	5.76	0.63	1.94
2022-12-13	35.76	3.40	7.07	8.08	0.51	1.59
2022-12-14	38.52	3.35	7.07	8.94	0.50	1.55
2022-12-15	38.60	3.43	7.08	8.98	0.51	1.58



xviii) Lalbagh

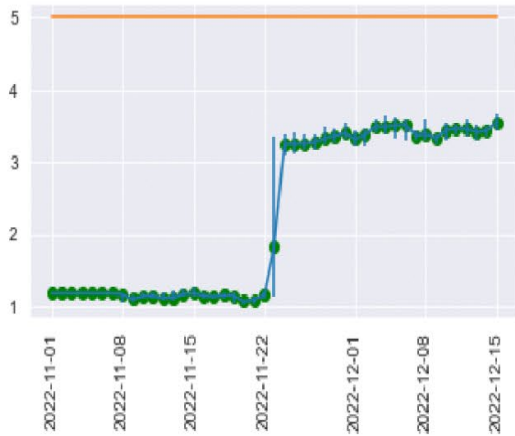
Lalbagh						
Date	avg_COD	avg_BOD	avg_pH	avg_TSS	avg_Ammonical Nitrogen	avg_Total Nitrogen
2022-11-01	17.60	0.93	8.31	1.02	1.20	6.00
2022-11-02	17.60	0.93	8.31	1.02	1.20	6.00
2022-11-03	17.60	0.93	8.31	1.02	1.20	6.00
2022-11-04	17.60	0.93	8.31	1.02	1.20	6.00
2022-11-05	17.60	0.93	8.31	1.02	1.20	6.00
2022-11-06	17.60	0.93	8.31	1.02	1.20	6.00
2022-11-07	17.60	0.93	8.31	1.02	1.20	6.00
2022-11-08	17.55	1.00	8.10	1.03	1.12	5.59
2022-11-09	17.32	1.41	7.03	1.07	0.55	2.74
2022-11-10	17.31	1.39	7.16	1.04	0.54	2.71
2022-11-11	17.45	1.46	6.70	1.11	0.44	2.21
2022-11-12	17.63	1.64	6.35	1.39	0.46	2.31
2022-11-13	17.57	1.64	6.38	1.44	0.46	2.35
2022-11-14	17.49	1.57	6.37	1.34	0.47	2.42
2022-11-15	17.20	1.35	6.45	1.01	0.56	2.83
2022-11-16	17.08	1.31	6.58	1.00	0.63	3.15
2022-11-17	17.03	1.29	6.65	0.99	0.61	3.09
2022-11-18	17.09	1.32	6.60	1.00	0.55	2.76
2022-11-19	17.03	1.29	6.72	1.00	0.55	2.76
2022-11-20	17.08	1.33	6.70	1.03	0.64	3.18
2022-11-21	17.31	1.48	6.70	1.22	0.74	3.69
2022-11-22	17.77	1.75	6.73	1.56	0.62	3.11
2022-11-23	17.71	1.72	6.73	1.52	0.66	3.30
2022-11-24	17.69	1.69	6.78	1.50	0.66	3.30
2022-11-25	17.85	1.71	6.53	1.43	0.64	3.19
2022-11-26	17.43	1.38	6.36	0.93	0.62	3.08
2022-11-27	17.32	1.34	6.34	0.92	0.62	3.10
2022-11-28	17.10	1.27	6.30	0.90	0.61	3.05
2022-11-29	17.05	1.26	6.27	0.90	0.63	3.15
2022-11-30	17.04	1.28	6.22	0.93	0.65	3.26
2022-12-01	17.26	1.44	6.25	1.13	0.68	3.42
2022-12-02	17.56	1.58	6.26	1.23	0.70	3.48
2022-12-03	17.32	1.48	6.27	1.20	0.76	3.80
2022-12-04	17.26	1.47	6.29	1.22	0.88	4.40
2022-12-05	17.27	1.47	6.33	1.22	0.92	4.61
2022-12-06	17.31	1.50	6.35	1.25	0.85	4.27
2022-12-07	17.29	1.48	6.44	1.23	0.84	4.19
2022-12-08	17.28	1.48	6.61	1.23	0.82	4.09
2022-12-09	17.29	1.48	6.74	1.24	0.73	3.68
2022-12-10	17.28	1.48	6.84	1.24	0.75	3.74
2022-12-11	17.29	1.48	6.91	1.24	0.70	3.52
2022-12-12	17.30	1.50	6.96	1.26	0.68	3.42
2022-12-13	17.29	1.49	6.32	1.25	0.66	3.30
2022-12-14	17.44	1.51	6.23	1.21	0.62	3.11
2022-12-15	17.35	1.46	6.22	1.17	0.62	3.12



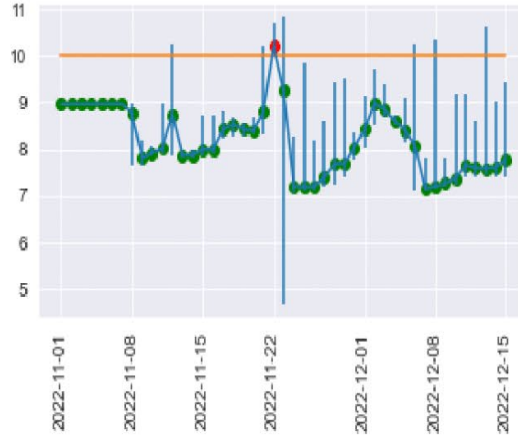
xix) Mailasandra Ph-I

Mailasandra Ph-I						
Date	avg_COD	avg_BOD	avg_pH	avg_TSS	avg_Ammonical Nitrogen	avg_Total Nitrogen
2022-11-01	39.96	8.97	7.90	6.06	1.18	2.26
2022-11-02	39.96	8.97	7.90	6.06	1.18	2.26
2022-11-03	39.96	8.97	7.90	6.06	1.18	2.26
2022-11-04	39.96	8.97	7.90	6.06	1.18	2.26
2022-11-05	39.96	8.97	7.90	6.06	1.18	2.26
2022-11-06	39.96	8.97	7.90	6.06	1.18	2.26
2022-11-07	39.96	8.97	7.90	6.06	1.18	2.26
2022-11-08	40.38	8.78	7.83	7.00	1.17	2.12
2022-11-09	43.53	7.82	7.43	12.29	1.10	1.16
2022-11-10	44.18	7.91	7.42	12.13	1.14	1.44
2022-11-11	44.77	8.02	7.41	11.93	1.14	1.14
2022-11-12	47.30	8.75	7.41	12.10	1.12	1.18
2022-11-13	44.03	7.87	7.41	11.88	1.12	0.94
2022-11-14	44.08	7.88	7.40	11.79	1.17	0.97
2022-11-15	44.51	7.99	7.40	11.71	1.18	0.93
2022-11-16	44.57	7.99	7.42	11.63	1.15	1.00
2022-11-17	46.15	8.43	7.42	11.30	1.13	1.09
2022-11-18	46.43	8.53	7.42	11.04	1.15	1.21
2022-11-19	46.16	8.43	7.42	11.12	1.15	1.21
2022-11-20	46.05	8.39	7.44	11.24	1.07	1.17
2022-11-21	47.37	8.81	7.44	10.56	1.10	1.21
2022-11-22	52.49	10.22	7.40	8.77	1.15	1.19
2022-11-23	49.30	9.27	7.42	10.41	1.83	2.53
2022-11-24	41.44	7.20	7.51	14.70	3.25	5.03
2022-11-25	41.26	7.19	7.50	14.63	3.25	4.79
2022-11-26	41.22	7.19	7.47	14.63	3.26	4.48
2022-11-27	42.08	7.39	7.45	14.57	3.27	4.36
2022-11-28	43.24	7.68	7.42	14.49	3.33	3.87
2022-11-29	43.13	7.69	7.41	14.27	3.36	3.53
2022-11-30	44.32	8.04	7.41	14.20	3.40	2.72
2022-12-01	45.71	8.42	7.40	14.45	3.32	1.92
2022-12-02	47.90	8.99	7.41	15.19	3.37	1.80
2022-12-03	47.74	8.85	7.40	14.78	3.49	1.50
2022-12-04	46.50	8.61	7.40	14.75	3.48	1.16
2022-12-05	45.44	8.42	7.40	14.83	3.51	1.62
2022-12-06	44.26	8.08	7.40	14.79	3.51	3.50
2022-12-07	41.06	7.14	7.42	14.65	3.37	5.07
2022-12-08	41.35	7.20	7.40	14.58	3.39	4.83
2022-12-09	41.60	7.26	7.40	14.54	3.33	3.78
2022-12-10	42.22	7.38	7.41	14.37	3.44	4.48
2022-12-11	43.63	7.66	7.40	14.15	3.46	3.69
2022-12-12	43.22	7.60	7.37	14.20	3.46	3.34
2022-12-13	42.99	7.58	7.34	14.26	3.41	2.28
2022-12-14	43.03	7.61	7.34	14.34	3.43	2.37
2022-12-15	43.74	7.79	7.34	14.32	3.55	1.50

Mailasandra Ph-I Ammonical Nitrogen



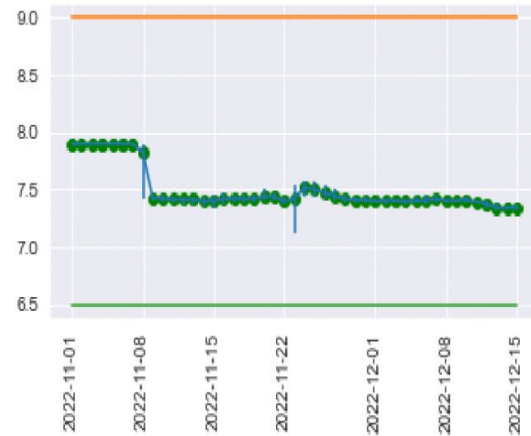
Mailasandra Ph-I BOD



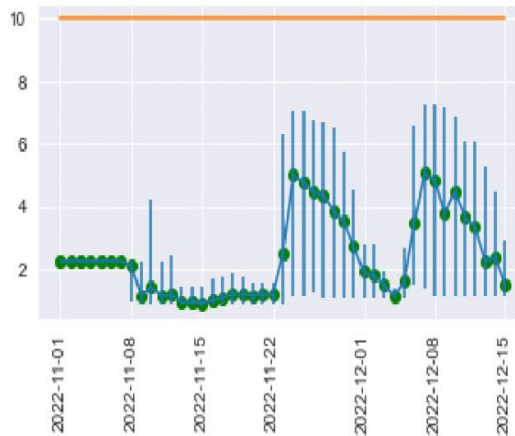
Mailasandra Ph-I COD



Mailasandra Ph-I pH



Mailasandra Ph-I Total Nitrogen

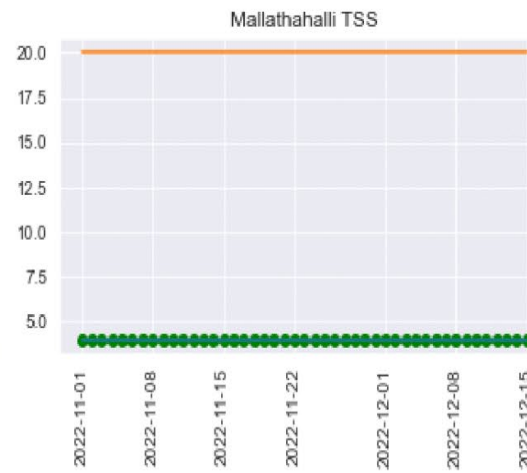
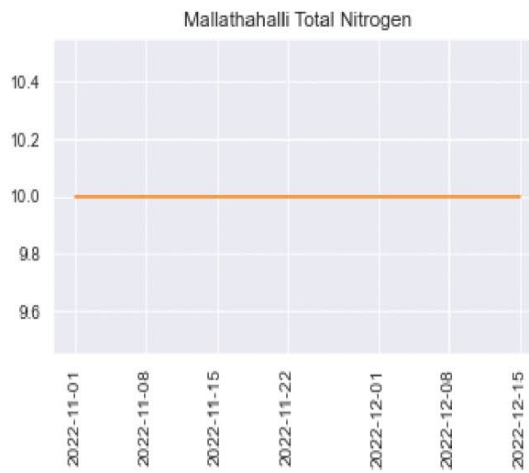
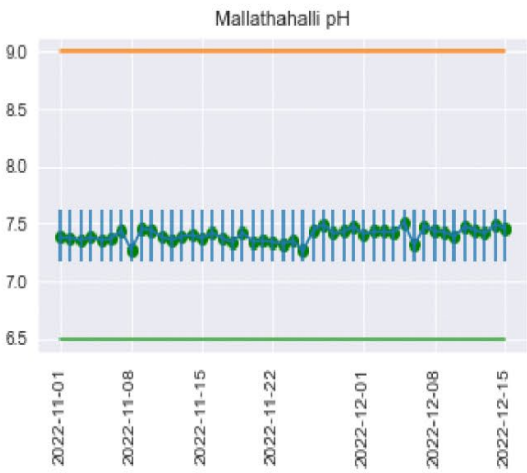
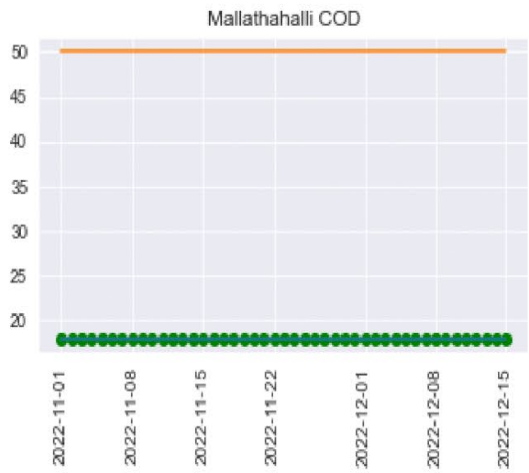
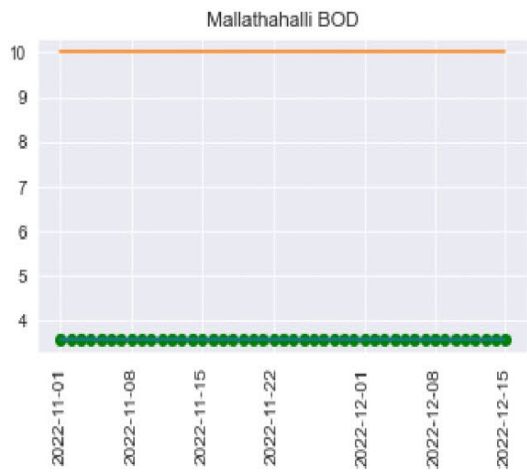
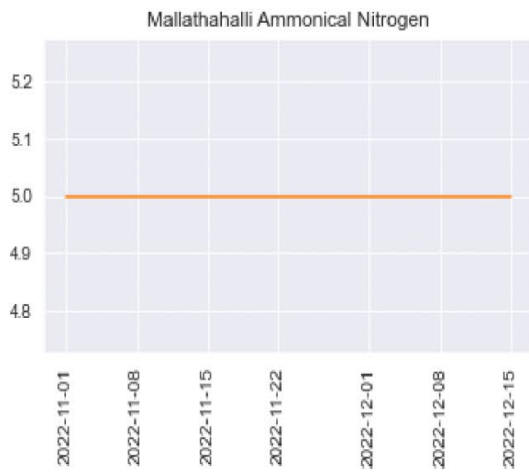


Mailasandra Ph-I TSS



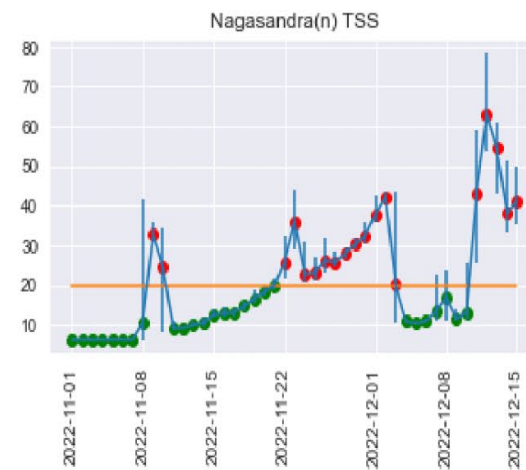
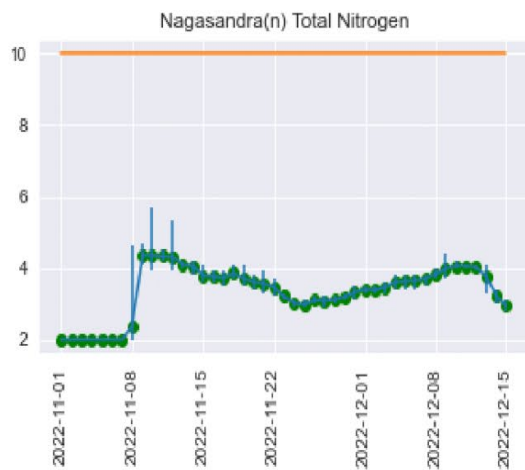
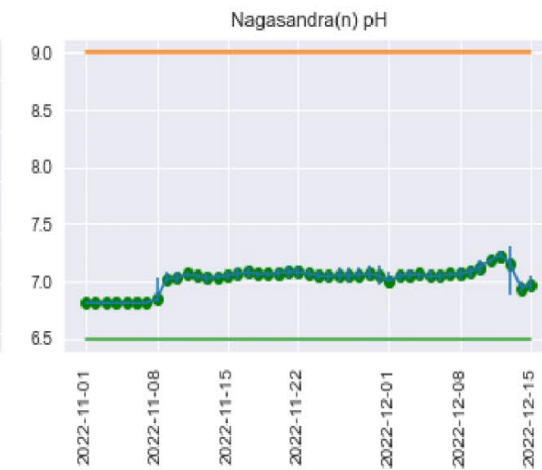
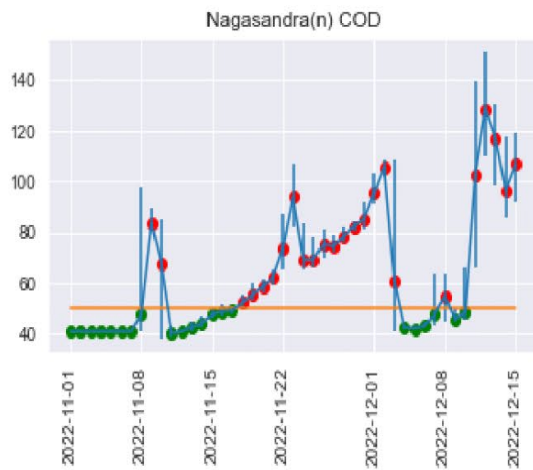
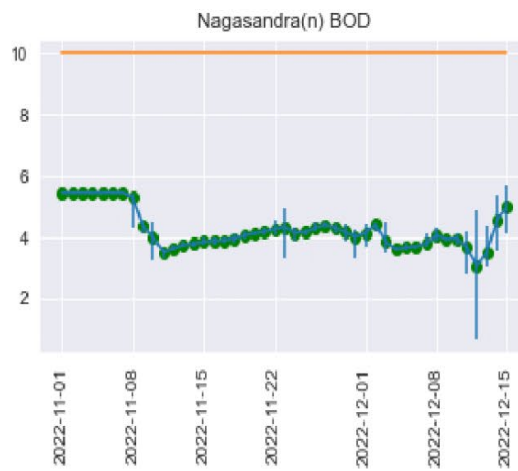
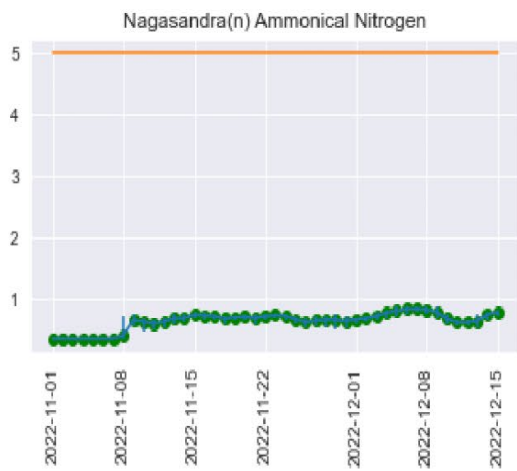
xx) Mallathahalli

Mallathahalli						
Date	avg_COD	avg_BOD	avg_pH	avg_TSS	avg_Ammonical Nitrogen	avg_Total Nitrogen
2022-11-01	18.00	3.60	7.38	4.00	nan	nan
2022-11-02	18.00	3.60	7.37	4.00	nan	nan
2022-11-03	18.00	3.60	7.36	4.00	nan	nan
2022-11-04	18.00	3.60	7.38	4.00	nan	nan
2022-11-05	18.00	3.60	7.36	4.00	nan	nan
2022-11-06	18.00	3.60	7.37	4.00	nan	nan
2022-11-07	18.00	3.60	7.44	4.00	nan	nan
2022-11-08	18.00	3.60	7.27	4.00	nan	nan
2022-11-09	18.00	3.60	7.46	4.00	nan	nan
2022-11-10	18.00	3.60	7.44	4.00	nan	nan
2022-11-11	18.00	3.60	7.38	4.00	nan	nan
2022-11-12	18.00	3.60	7.36	4.00	nan	nan
2022-11-13	18.00	3.60	7.39	4.00	nan	nan
2022-11-14	18.00	3.60	7.40	4.00	nan	nan
2022-11-15	18.00	3.60	7.37	4.00	nan	nan
2022-11-16	18.00	3.60	7.42	4.00	nan	nan
2022-11-17	18.00	3.60	7.38	4.00	nan	nan
2022-11-18	18.00	3.60	7.34	4.00	nan	nan
2022-11-19	18.00	3.60	7.42	4.00	nan	nan
2022-11-20	18.00	3.60	7.34	4.00	nan	nan
2022-11-21	18.00	3.60	7.35	4.00	nan	nan
2022-11-22	18.00	3.60	7.34	4.00	nan	nan
2022-11-23	18.00	3.60	7.33	4.00	nan	nan
2022-11-24	18.00	3.60	7.35	4.00	nan	nan
2022-11-25	18.00	3.60	7.27	4.00	nan	nan
2022-11-26	18.00	3.60	7.44	4.00	nan	nan
2022-11-27	18.00	3.60	7.49	4.00	nan	nan
2022-11-28	18.00	3.60	7.42	4.00	nan	nan
2022-11-29	18.00	3.60	7.43	4.00	nan	nan
2022-11-30	18.00	3.60	7.47	4.00	nan	nan
2022-12-01	18.00	3.60	7.41	4.00	nan	nan
2022-12-02	18.00	3.60	7.43	4.00	nan	nan
2022-12-03	18.00	3.60	7.43	4.00	nan	nan
2022-12-04	18.00	3.60	7.43	4.00	nan	nan
2022-12-05	18.00	3.60	7.51	4.00	nan	nan
2022-12-06	18.00	3.60	7.31	4.00	nan	nan
2022-12-07	18.00	3.60	7.48	4.00	nan	nan
2022-12-08	18.00	3.60	7.44	4.00	nan	nan
2022-12-09	18.00	3.60	7.43	4.00	nan	nan
2022-12-10	18.00	3.60	7.39	4.00	nan	nan
2022-12-11	18.00	3.60	7.48	4.00	nan	nan
2022-12-12	18.00	3.60	7.44	4.00	nan	nan
2022-12-13	18.00	3.60	7.42	4.00	nan	nan
2022-12-14	18.00	3.60	7.49	4.00	nan	nan
2022-12-15	18.00	3.60	7.46	4.00	nan	nan



xxi) Nagasandra(n)

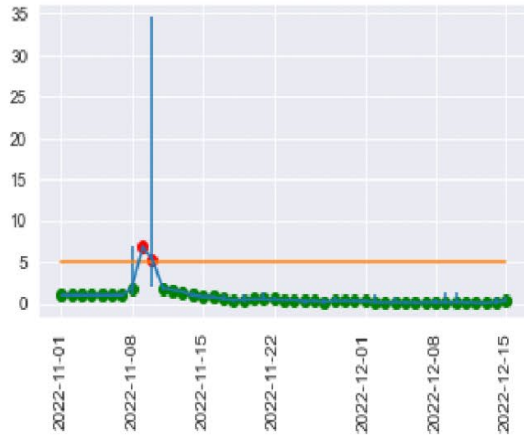
Nagasandra(n)						
Date	avg_COD	avg_BOD	avg_pH	avg_TSS	avg_Ammonical Nitrogen	avg_Total Nitrogen
2022-11-01	40.86	5.45	6.81	6.35	0.37	2.00
2022-11-02	40.86	5.45	6.81	6.35	0.37	2.00
2022-11-03	40.86	5.45	6.81	6.35	0.37	2.00
2022-11-04	40.86	5.45	6.81	6.35	0.37	2.00
2022-11-05	40.86	5.45	6.81	6.35	0.37	2.00
2022-11-06	40.86	5.45	6.81	6.35	0.37	2.00
2022-11-07	40.86	5.45	6.81	6.35	0.37	2.00
2022-11-08	47.78	5.30	6.84	10.70	0.42	2.35
2022-11-09	83.46	4.34	7.02	32.71	0.67	4.37
2022-11-10	67.34	4.00	7.03	24.50	0.64	4.35
2022-11-11	40.23	3.50	7.06	9.10	0.62	4.33
2022-11-12	40.86	3.61	7.05	9.22	0.64	4.31
2022-11-13	42.63	3.74	7.03	9.93	0.70	4.09
2022-11-14	44.04	3.77	7.04	10.59	0.70	4.05
2022-11-15	47.64	3.85	7.05	12.52	0.76	3.79
2022-11-16	48.74	3.87	7.07	12.82	0.74	3.77
2022-11-17	49.29	3.89	7.08	13.06	0.73	3.72
2022-11-18	52.25	3.94	7.07	14.75	0.69	3.85
2022-11-19	55.41	4.05	7.06	16.50	0.71	3.71
2022-11-20	58.46	4.11	7.07	18.23	0.72	3.60
2022-11-21	62.13	4.17	7.08	19.86	0.70	3.56
2022-11-22	73.93	4.25	7.08	25.82	0.73	3.45
2022-11-23	94.18	4.32	7.07	36.00	0.75	3.21
2022-11-24	69.16	4.14	7.05	22.80	0.74	3.02
2022-11-25	69.26	4.15	7.05	23.07	0.68	2.97
2022-11-26	75.34	4.29	7.06	26.29	0.63	3.10
2022-11-27	74.50	4.38	7.05	25.72	0.66	3.09
2022-11-28	78.36	4.30	7.06	27.98	0.68	3.11
2022-11-29	82.27	4.16	7.07	30.31	0.67	3.18
2022-11-30	85.31	4.00	7.05	32.53	0.65	3.32
2022-12-01	95.34	4.14	7.01	37.83	0.68	3.39
2022-12-02	105.65	4.41	7.05	42.21	0.69	3.37
2022-12-03	60.90	3.84	7.06	20.03	0.73	3.46
2022-12-04	42.49	3.60	7.06	10.82	0.79	3.60
2022-12-05	42.06	3.64	7.04	10.40	0.82	3.63
2022-12-06	42.98	3.69	7.05	10.87	0.85	3.65
2022-12-07	47.86	3.78	7.06	13.54	0.85	3.70
2022-12-08	54.82	4.05	7.07	16.76	0.84	3.84
2022-12-09	45.68	3.93	7.09	11.47	0.80	3.97
2022-12-10	48.41	3.95	7.12	13.14	0.69	4.05
2022-12-11	102.69	3.68	7.19	42.97	0.63	4.05
2022-12-12	128.35	3.07	7.23	63.04	0.63	4.01
2022-12-13	117.11	3.49	7.15	54.53	0.65	3.78
2022-12-14	96.48	4.56	6.94	38.14	0.76	3.21
2022-12-15	106.77	4.99	6.97	41.11	0.80	2.93



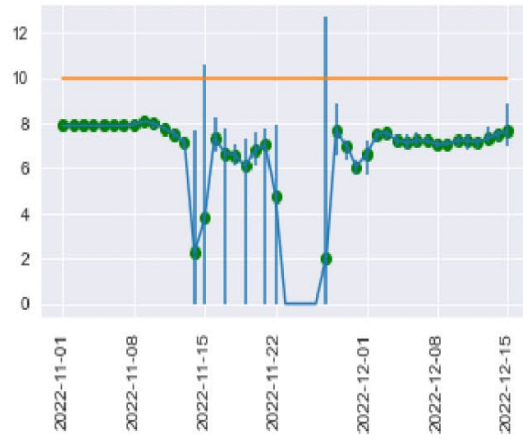
xxii) Nagasandra(o)

Nagasandra(o)						
Date	avg_COD	avg_BOD	avg_pH	avg_TSS	avg_Ammonical Nitrogen	avg_Total Nitrogen
2022-11-01	49.51	7.87	6.93	10.95	1.02	1.53
2022-11-02	49.51	7.87	6.93	10.95	1.02	1.53
2022-11-03	49.51	7.87	6.93	10.95	1.02	1.53
2022-11-04	49.51	7.87	6.93	10.95	1.02	1.53
2022-11-05	49.51	7.87	6.93	10.95	1.02	1.53
2022-11-06	49.51	7.87	6.93	10.95	1.02	1.53
2022-11-07	49.51	7.87	6.93	10.95	1.02	1.53
2022-11-08	50.25	7.90	6.94	14.42	1.89	2.83
2022-11-09	54.45	8.07	6.98	34.20	6.85	10.27
2022-11-10	52.36	7.97	7.05	25.02	5.39	8.09
2022-11-11	48.68	7.74	7.19	9.03	1.87	2.80
2022-11-12	49.93	7.51	7.15	14.83	1.63	2.44
2022-11-13	53.28	7.15	7.04	29.20	1.38	2.07
2022-11-14	19.73	2.31	7.00	26.97	1.00	1.49
2022-11-15	30.27	3.78	6.97	27.69	0.85	1.27
2022-11-16	53.85	7.31	7.00	33.32	0.82	1.23
2022-11-17	51.33	6.67	7.18	33.98	0.60	0.90
2022-11-18	56.54	6.58	7.23	44.99	0.49	0.74
2022-11-19	53.14	6.08	7.23	44.51	0.50	0.75
2022-11-20	55.33	6.79	7.23	40.72	0.55	0.83
2022-11-21	52.59	7.04	7.13	33.27	0.57	0.85
2022-11-22	35.75	4.75	7.05	33.42	0.51	0.76
2022-11-23	0.00	0.00	7.03	10.04	0.49	0.73
2022-11-24	0.00	0.00	6.96	0.00	0.47	0.71
2022-11-25	0.00	0.00	6.94	0.00	0.35	0.53
2022-11-26	0.00	0.00	6.87	0.00	0.36	0.54
2022-11-27	14.30	2.00	6.92	28.51	0.24	0.36
2022-11-28	54.73	7.68	6.80	35.98	0.38	0.57
2022-11-29	53.67	7.00	6.73	30.92	0.34	0.51
2022-11-30	58.07	6.07	6.55	51.14	0.35	0.52
2022-12-01	55.71	6.59	6.59	40.68	0.34	0.50
2022-12-02	50.69	7.45	6.98	18.14	0.20	0.31
2022-12-03	48.99	7.57	7.28	10.33	0.15	0.23
2022-12-04	51.27	7.23	7.31	19.89	0.18	0.27
2022-12-05	53.93	7.11	7.28	31.18	0.16	0.25
2022-12-06	51.80	7.23	7.36	24.40	0.13	0.19
2022-12-07	51.17	7.22	7.37	20.87	0.16	0.25
2022-12-08	51.79	7.04	7.31	24.44	0.17	0.25
2022-12-09	51.64	7.07	7.23	23.87	0.18	0.26
2022-12-10	51.40	7.23	7.18	22.58	0.19	0.28
2022-12-11	51.55	7.23	6.98	23.04	0.18	0.26
2022-12-12	51.08	7.17	7.00	21.47	0.12	0.18
2022-12-13	50.63	7.33	7.10	18.60	0.10	0.15
2022-12-14	50.08	7.50	6.74	15.40	0.21	0.31
2022-12-15	54.33	7.62	6.91	31.77	0.42	0.63

Nagasandra(o) Ammonical Nitrogen



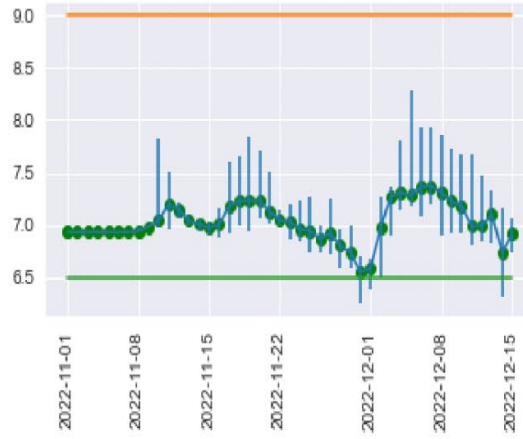
Nagasandra(o) BOD



Nagasandra(o) COD



Nagasandra(o) pH



Nagasandra(o) Total Nitrogen

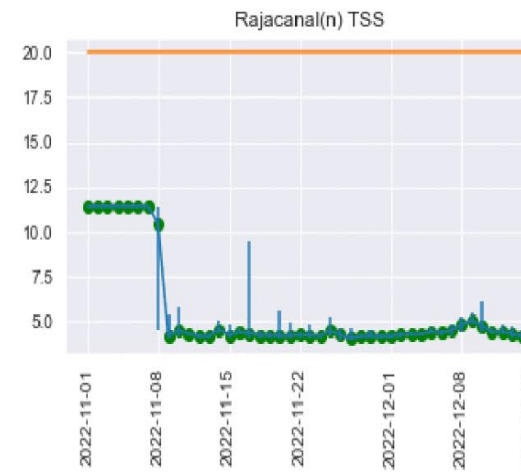
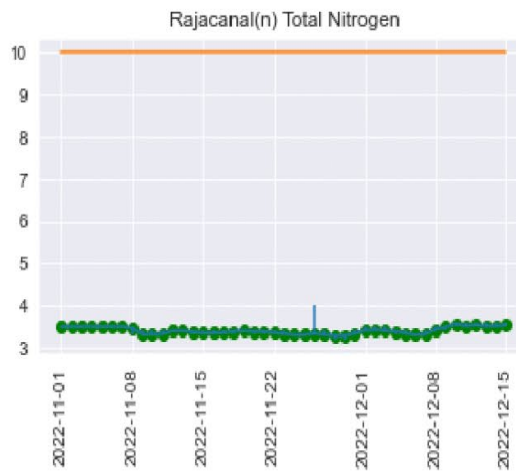
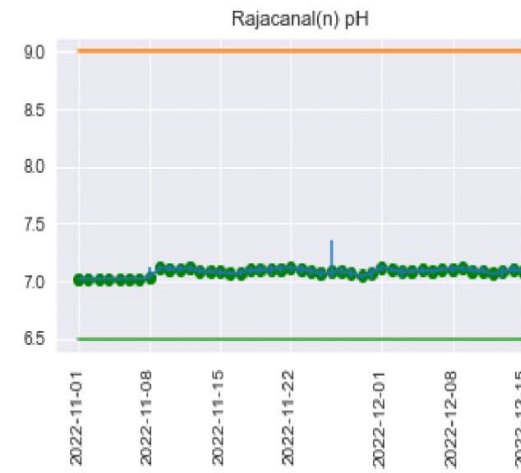
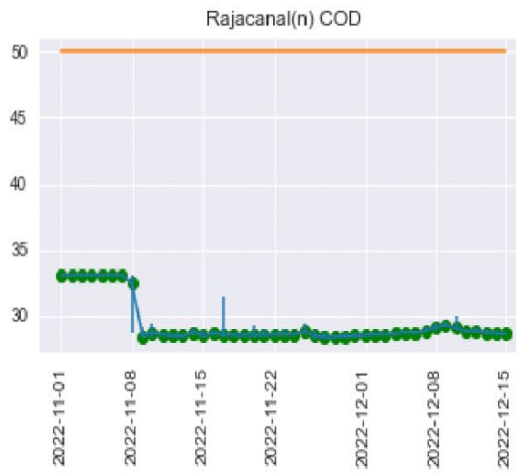
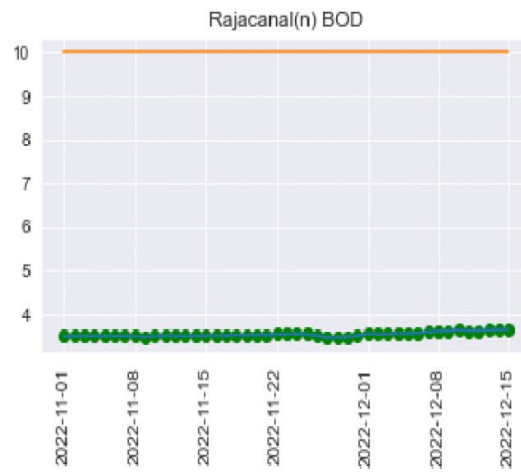
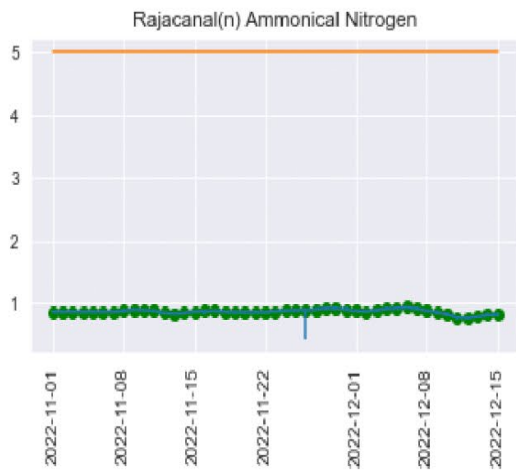


Nagasandra(o) TSS



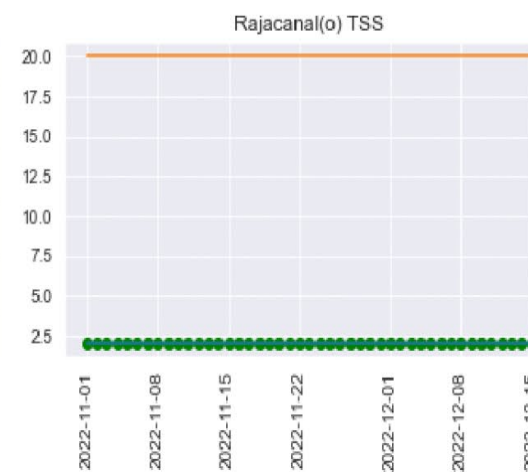
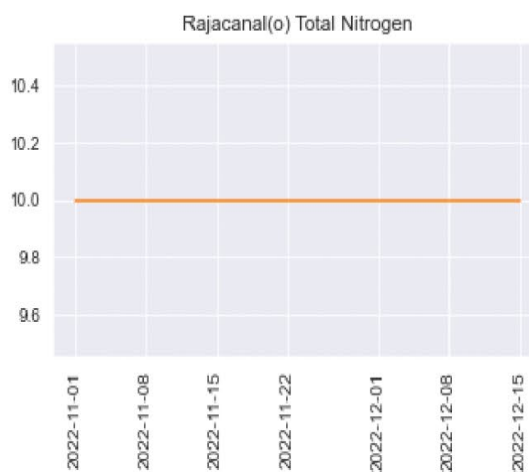
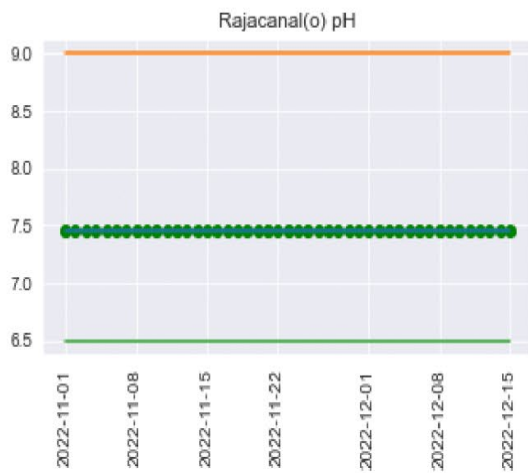
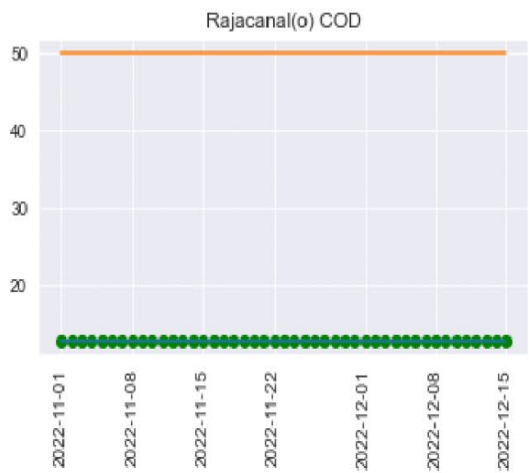
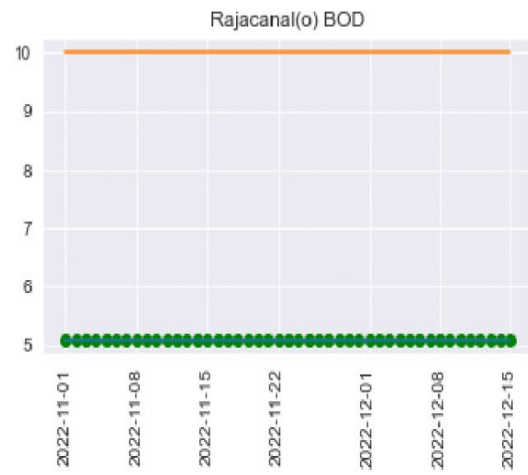
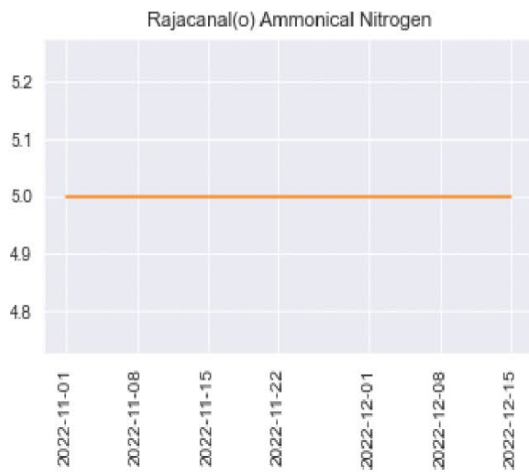
xxiii) Rajacanal(n)

Date	Rajacanal(n)					avg_Total Nitrogen
	avg_COD	avg_BOD	avg_pH	avg_TSS	avg_Ammonical Nitrogen	
2022-11-01	33.05	3.49	7.02	11.40	0.87	3.50
2022-11-02	33.05	3.49	7.02	11.40	0.87	3.50
2022-11-03	33.05	3.49	7.02	11.40	0.87	3.50
2022-11-04	33.05	3.49	7.02	11.40	0.87	3.50
2022-11-05	33.05	3.49	7.02	11.40	0.87	3.50
2022-11-06	33.05	3.49	7.02	11.40	0.87	3.50
2022-11-07	33.05	3.49	7.02	11.40	0.87	3.50
2022-11-08	32.39	3.49	7.03	10.37	0.88	3.47
2022-11-09	28.38	3.47	7.11	4.13	0.90	3.31
2022-11-10	28.62	3.49	7.10	4.44	0.89	3.32
2022-11-11	28.51	3.50	7.10	4.25	0.88	3.33
2022-11-12	28.44	3.50	7.11	4.14	0.85	3.40
2022-11-13	28.42	3.49	7.09	4.13	0.84	3.40
2022-11-14	28.67	3.49	7.08	4.51	0.85	3.37
2022-11-15	28.47	3.50	7.08	4.18	0.87	3.35
2022-11-16	28.58	3.50	7.07	4.34	0.87	3.34
2022-11-17	28.54	3.50	7.07	4.30	0.88	3.36
2022-11-18	28.49	3.51	7.09	4.19	0.87	3.39
2022-11-19	28.49	3.51	7.09	4.18	0.86	3.40
2022-11-20	28.48	3.52	7.10	4.15	0.86	3.38
2022-11-21	28.49	3.52	7.11	4.15	0.86	3.38
2022-11-22	28.54	3.53	7.11	4.20	0.86	3.35
2022-11-23	28.53	3.53	7.10	4.18	0.87	3.33
2022-11-24	28.53	3.54	7.09	4.16	0.89	3.30
2022-11-25	28.70	3.53	7.07	4.42	0.89	3.30
2022-11-26	28.48	3.50	7.08	4.20	0.90	3.34
2022-11-27	28.28	3.46	7.09	4.01	0.90	3.30
2022-11-28	28.36	3.46	7.07	4.13	0.93	3.29
2022-11-29	28.39	3.47	7.05	4.14	0.92	3.28
2022-11-30	28.41	3.49	7.07	4.11	0.90	3.34
2022-12-01	28.50	3.54	7.12	4.13	0.88	3.41
2022-12-02	28.54	3.53	7.10	4.22	0.87	3.42
2022-12-03	28.55	3.53	7.08	4.23	0.89	3.40
2022-12-04	28.56	3.55	7.08	4.21	0.91	3.39
2022-12-05	28.69	3.55	7.09	4.40	0.92	3.34
2022-12-06	28.65	3.56	7.08	4.31	0.94	3.30
2022-12-07	28.79	3.58	7.11	4.44	0.92	3.32
2022-12-08	29.05	3.59	7.10	4.77	0.88	3.43
2022-12-09	29.24	3.61	7.11	5.03	0.86	3.49
2022-12-10	29.01	3.62	7.09	4.70	0.83	3.57
2022-12-11	28.75	3.61	7.09	4.35	0.78	3.52
2022-12-12	28.75	3.61	7.06	4.35	0.77	3.54
2022-12-13	28.68	3.62	7.08	4.26	0.79	3.51
2022-12-14	28.57	3.63	7.10	4.10	0.82	3.52
2022-12-15	28.59	3.64	7.09	4.10	0.82	3.54



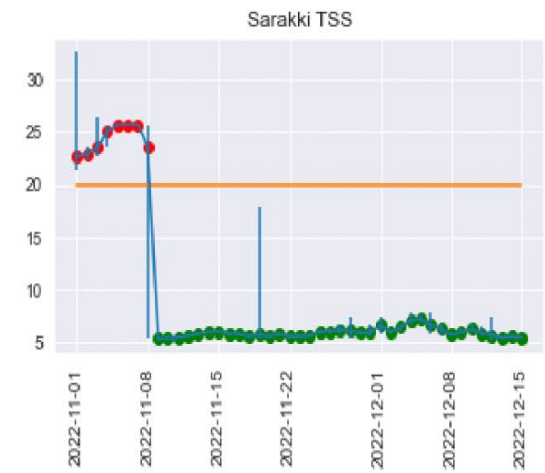
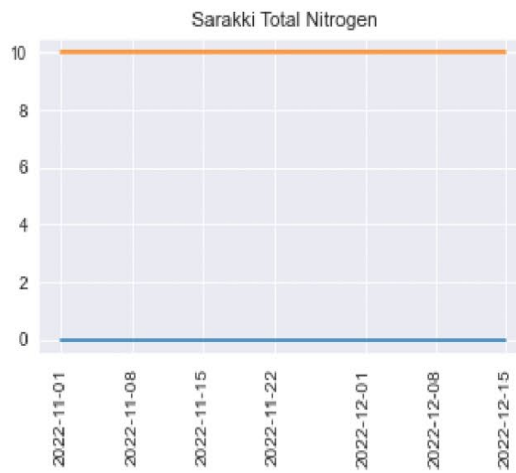
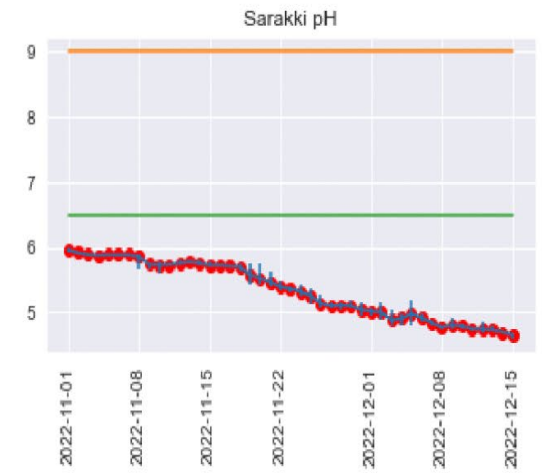
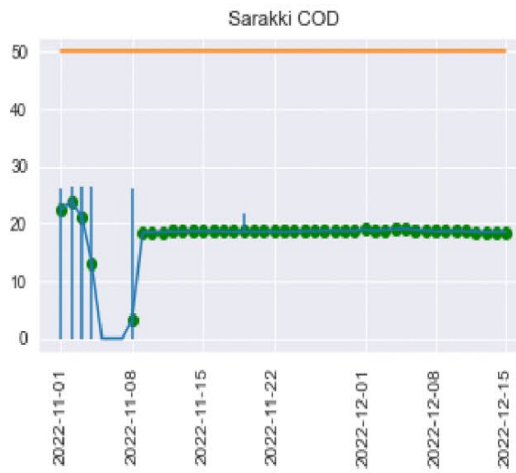
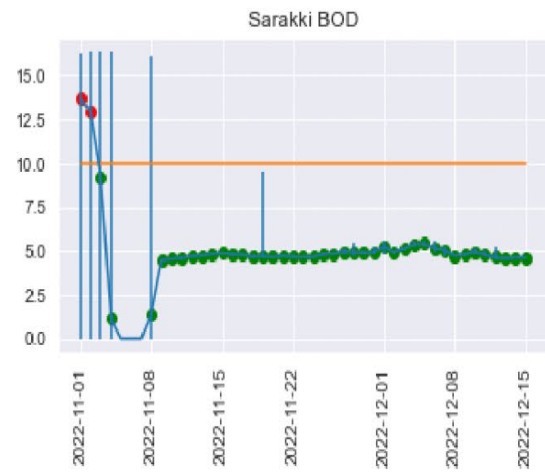
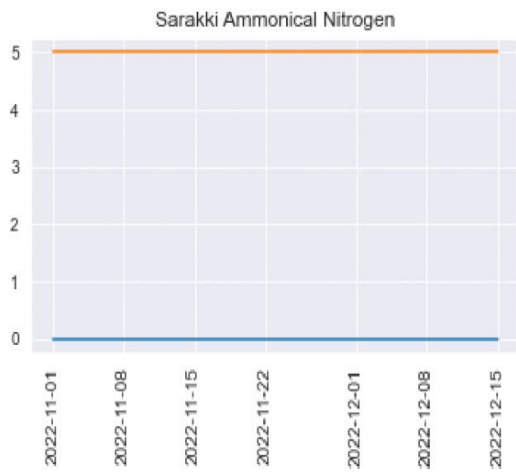
xxiv) Rajacanal(o)

Rajacanal(o)						
Date	avg_COD	avg_BOD	avg_pH	avg_TSS	avg_Ammonical Nitrogen	avg_Total Nitrogen
2022-11-01	12.84	5.10	7.46	2.05	nan	nan
2022-11-02	12.84	5.10	7.46	2.05	nan	nan
2022-11-03	12.84	5.10	7.46	2.05	nan	nan
2022-11-04	12.84	5.10	7.46	2.05	nan	nan
2022-11-05	12.84	5.10	7.46	2.05	nan	nan
2022-11-06	12.84	5.10	7.46	2.05	nan	nan
2022-11-07	12.84	5.10	7.46	2.05	nan	nan
2022-11-08	12.84	5.10	7.46	2.05	nan	nan
2022-11-09	12.84	5.10	7.46	2.05	nan	nan
2022-11-10	12.84	5.10	7.46	2.05	nan	nan
2022-11-11	12.84	5.10	7.46	2.05	nan	nan
2022-11-12	12.84	5.10	7.46	2.05	nan	nan
2022-11-13	12.84	5.10	7.46	2.05	nan	nan
2022-11-14	12.84	5.10	7.46	2.05	nan	nan
2022-11-15	12.84	5.10	7.46	2.05	nan	nan
2022-11-16	12.84	5.10	7.46	2.05	nan	nan
2022-11-17	12.84	5.10	7.46	2.05	nan	nan
2022-11-18	12.84	5.10	7.46	2.05	nan	nan
2022-11-19	12.84	5.10	7.46	2.05	nan	nan
2022-11-20	12.84	5.10	7.46	2.05	nan	nan
2022-11-21	12.84	5.10	7.46	2.05	nan	nan
2022-11-22	12.84	5.10	7.46	2.05	nan	nan
2022-11-23	12.84	5.10	7.46	2.05	nan	nan
2022-11-24	12.84	5.10	7.46	2.05	nan	nan
2022-11-25	12.84	5.10	7.46	2.05	nan	nan
2022-11-26	12.84	5.10	7.46	2.05	nan	nan
2022-11-27	12.84	5.10	7.46	2.05	nan	nan
2022-11-28	12.84	5.10	7.46	2.05	nan	nan
2022-11-29	12.84	5.10	7.46	2.05	nan	nan
2022-11-30	12.84	5.10	7.46	2.05	nan	nan
2022-12-01	12.84	5.10	7.46	2.05	nan	nan
2022-12-02	12.84	5.10	7.46	2.05	nan	nan
2022-12-03	12.84	5.10	7.46	2.05	nan	nan
2022-12-04	12.84	5.10	7.46	2.05	nan	nan
2022-12-05	12.84	5.10	7.46	2.05	nan	nan
2022-12-06	12.84	5.10	7.46	2.05	nan	nan
2022-12-07	12.84	5.10	7.46	2.05	nan	nan
2022-12-08	12.84	5.10	7.46	2.05	nan	nan
2022-12-09	12.84	5.10	7.46	2.05	nan	nan
2022-12-10	12.84	5.10	7.46	2.05	nan	nan
2022-12-11	12.84	5.10	7.46	2.05	nan	nan
2022-12-12	12.84	5.10	7.46	2.05	nan	nan
2022-12-13	12.84	5.10	7.46	2.05	nan	nan
2022-12-14	12.84	5.10	7.46	2.05	nan	nan
2022-12-15	12.84	5.10	7.46	2.05	nan	nan



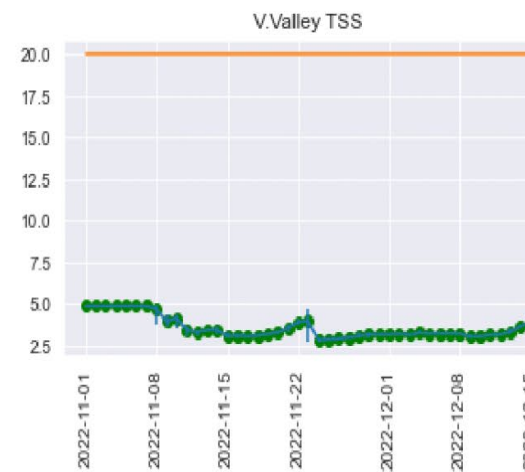
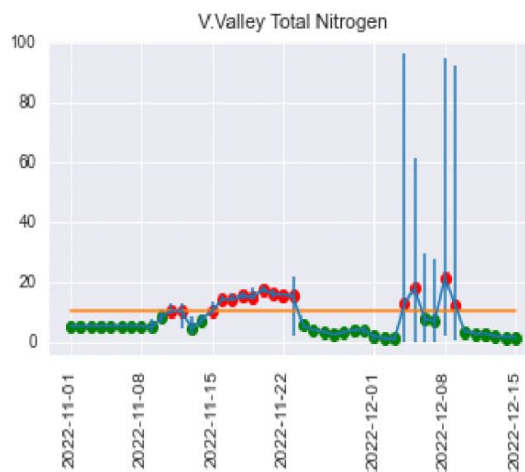
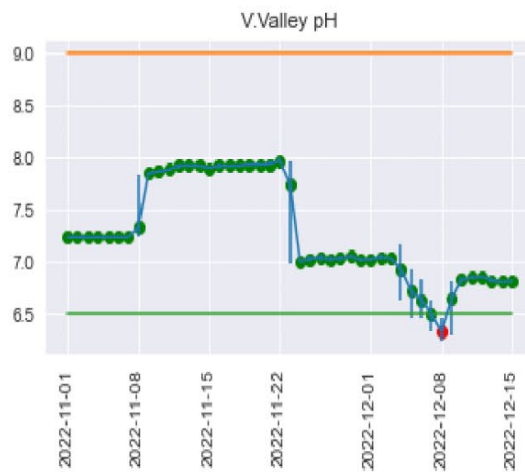
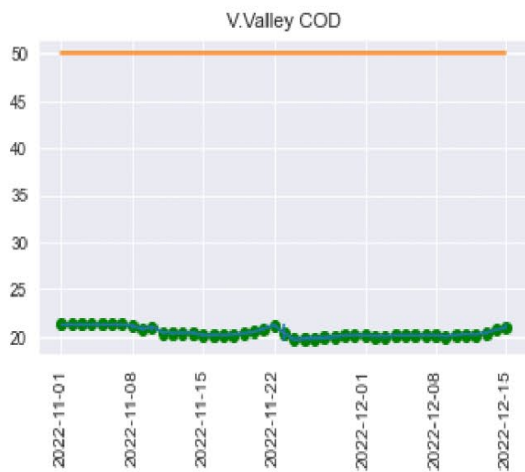
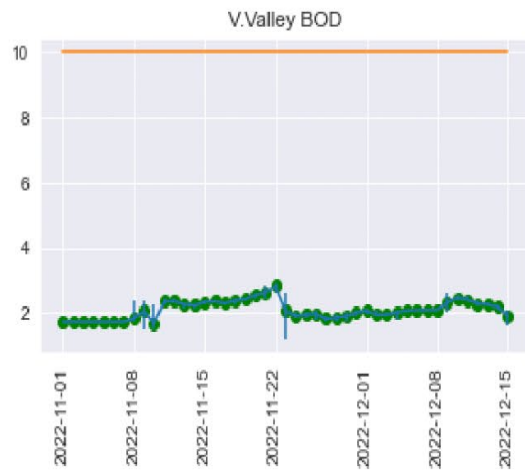
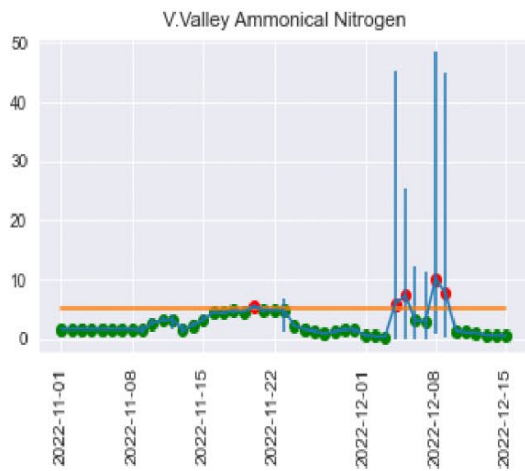
xxv) Sarakki

Sarakki						
Date	avg_COD	avg_BOD	avg_pH	avg_TSS	avg_Ammonical Nitrogen	avg_Total Nitrogen
2022-11-01	22.59	13.71	5.96	22.70	0.00	0.00
2022-11-02	23.94	12.92	5.92	22.85	0.00	0.00
2022-11-03	21.26	9.24	5.90	23.58	0.00	0.00
2022-11-04	12.95	1.13	5.88	24.98	0.00	0.00
2022-11-05	0.00	0.00	5.89	25.70	0.00	0.00
2022-11-06	0.00	0.00	5.89	25.70	0.00	0.00
2022-11-07	0.00	0.00	5.89	25.70	0.00	0.00
2022-11-08	3.24	1.40	5.86	23.51	0.00	0.00
2022-11-09	18.49	4.48	5.74	5.38	0.00	0.00
2022-11-10	18.53	4.53	5.73	5.43	0.00	0.00
2022-11-11	18.58	4.61	5.74	5.52	0.00	0.00
2022-11-12	18.63	4.69	5.76	5.67	0.00	0.00
2022-11-13	18.66	4.74	5.78	5.84	0.00	0.00
2022-11-14	18.72	4.83	5.76	6.03	0.00	0.00
2022-11-15	18.75	4.87	5.73	6.05	0.00	0.00
2022-11-16	18.70	4.80	5.73	5.89	0.00	0.00
2022-11-17	18.70	4.79	5.71	5.84	0.00	0.00
2022-11-18	18.62	4.67	5.71	5.64	0.00	0.00
2022-11-19	18.63	4.69	5.58	5.76	0.00	0.00
2022-11-20	18.60	4.65	5.53	5.61	0.00	0.00
2022-11-21	18.65	4.72	5.47	5.81	0.00	0.00
2022-11-22	18.60	4.65	5.39	5.59	0.00	0.00
2022-11-23	18.60	4.65	5.36	5.61	0.00	0.00
2022-11-24	18.61	4.66	5.32	5.67	0.00	0.00
2022-11-25	18.71	4.82	5.26	6.05	0.00	0.00
2022-11-26	18.72	4.84	5.15	6.09	0.00	0.00
2022-11-27	18.79	4.95	5.10	6.22	0.00	0.00
2022-11-28	18.77	4.91	5.11	6.13	0.00	0.00
2022-11-29	18.75	4.87	5.10	5.92	0.00	0.00
2022-11-30	18.77	4.91	5.05	5.94	0.00	0.00
2022-12-01	19.00	5.25	5.02	6.68	0.00	0.00
2022-12-02	18.79	4.94	5.01	6.01	0.00	0.00
2022-12-03	18.92	5.14	4.89	6.48	0.00	0.00
2022-12-04	19.06	5.37	4.92	7.14	0.00	0.00
2022-12-05	19.08	5.41	4.99	7.31	0.00	0.00
2022-12-06	18.93	5.17	4.93	6.68	0.00	0.00
2022-12-07	18.84	5.03	4.85	6.32	0.00	0.00
2022-12-08	18.66	4.73	4.78	5.75	0.00	0.00
2022-12-09	18.70	4.80	4.81	5.97	0.00	0.00
2022-12-10	18.79	4.94	4.79	6.29	0.00	0.00
2022-12-11	18.67	4.77	4.76	5.89	0.00	0.00
2022-12-12	18.59	4.65	4.75	5.72	0.00	0.00
2022-12-13	18.53	4.55	4.74	5.50	0.00	0.00
2022-12-14	18.58	4.62	4.70	5.57	0.00	0.00
2022-12-15	18.59	4.63	4.66	5.54	0.00	0.00



xxvi) V.Valley

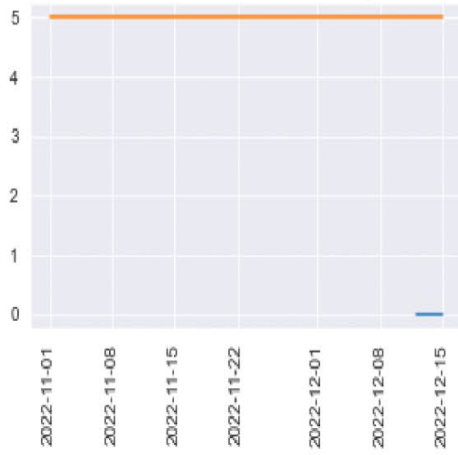
V.Valley						
Date	avg_COD	avg_BOD	avg_pH	avg_TSS	avg_Ammonical Nitrogen	avg_Total Nitrogen
2022-11-01	21.29	1.73	7.24	4.87	1.62	5.18
2022-11-02	21.29	1.73	7.24	4.87	1.62	5.18
2022-11-03	21.29	1.73	7.24	4.87	1.62	5.18
2022-11-04	21.29	1.73	7.24	4.87	1.62	5.18
2022-11-05	21.29	1.73	7.24	4.87	1.62	5.18
2022-11-06	21.29	1.73	7.24	4.87	1.62	5.18
2022-11-07	21.29	1.73	7.24	4.87	1.62	5.18
2022-11-08	21.22	1.83	7.33	4.70	1.61	5.15
2022-11-09	20.76	2.06	7.85	3.94	1.45	4.63
2022-11-10	21.06	1.68	7.87	4.16	2.57	8.24
2022-11-11	20.47	2.36	7.89	3.44	3.13	10.02
2022-11-12	20.36	2.36	7.92	3.29	3.18	10.17
2022-11-13	20.37	2.27	7.92	3.43	1.39	4.44
2022-11-14	20.40	2.23	7.92	3.44	2.24	7.17
2022-11-15	20.08	2.34	7.90	3.03	3.15	10.09
2022-11-16	20.16	2.36	7.92	3.11	4.40	14.07
2022-11-17	20.11	2.29	7.92	3.03	4.36	13.94
2022-11-18	20.21	2.38	7.92	3.09	4.75	15.20
2022-11-19	20.30	2.42	7.94	3.17	4.55	14.54
2022-11-20	20.48	2.55	7.94	3.28	5.38	17.21
2022-11-21	20.82	2.63	7.94	3.54	4.89	15.63
2022-11-22	21.27	2.84	7.97	3.90	4.85	15.51
2022-11-23	20.34	2.07	7.75	3.98	4.82	15.05
2022-11-24	19.69	1.91	7.00	2.80	2.20	5.28
2022-11-25	19.81	1.96	7.03	2.87	1.59	3.80
2022-11-26	19.85	1.98	7.05	2.90	1.32	3.17
2022-11-27	19.89	1.82	7.02	2.96	0.88	2.12
2022-11-28	19.99	1.85	7.04	3.06	1.23	2.95
2022-11-29	20.09	1.91	7.05	3.15	1.56	3.75
2022-11-30	20.11	2.01	7.02	3.15	1.53	3.68
2022-12-01	20.10	2.08	7.03	3.14	0.68	1.62
2022-12-02	20.05	1.95	7.05	3.20	0.41	0.97
2022-12-03	20.03	1.95	7.03	3.13	0.35	0.84
2022-12-04	20.11	2.02	6.93	3.25	5.82	12.41
2022-12-05	20.10	2.08	6.72	3.21	7.33	17.59
2022-12-06	20.10	2.09	6.64	3.21	3.14	7.52
2022-12-07	20.10	2.10	6.50	3.20	2.89	6.93
2022-12-08	20.10	2.10	6.34	3.20	10.05	20.84
2022-12-09	20.02	2.32	6.64	3.01	7.70	12.25
2022-12-10	20.15	2.47	6.83	3.04	1.35	3.24
2022-12-11	20.23	2.41	6.85	3.12	1.07	2.57
2022-12-12	20.21	2.29	6.86	3.15	1.02	2.44
2022-12-13	20.39	2.27	6.82	3.31	0.65	1.55
2022-12-14	20.74	2.18	6.81	3.66	0.56	1.35
2022-12-15	20.96	1.92	6.82	3.91	0.54	1.31



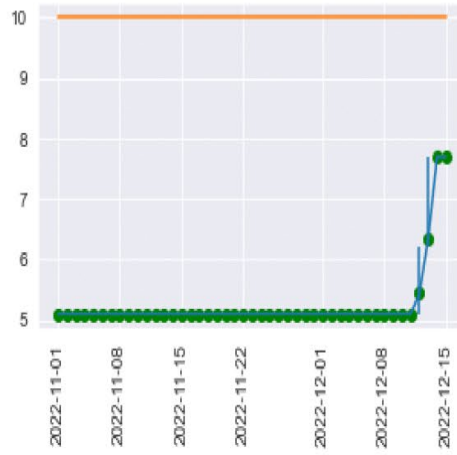
xxvii) Yelahanka TTP

Yelahanka TTP						
Date	avg_COD	avg_BOD	avg_pH	avg_TSS	avg_Ammonical Nitrogen	avg_Total Nitrogen
2022-11-01	12.84	5.10	7.22	2.05	nan	nan
2022-11-02	12.84	5.10	7.22	2.05	nan	nan
2022-11-03	12.84	5.10	7.22	2.05	nan	nan
2022-11-04	12.84	5.10	7.22	2.05	nan	nan
2022-11-05	12.84	5.10	7.22	2.05	nan	nan
2022-11-06	12.84	5.10	7.22	2.05	nan	nan
2022-11-07	12.84	5.10	7.22	2.05	nan	nan
2022-11-08	12.84	5.10	7.22	2.05	nan	nan
2022-11-09	12.84	5.10	7.22	2.05	nan	nan
2022-11-10	12.84	5.10	7.22	2.05	nan	nan
2022-11-11	12.84	5.10	7.22	2.05	nan	nan
2022-11-12	12.84	5.10	7.22	2.05	nan	nan
2022-11-13	12.84	5.10	7.22	2.05	nan	nan
2022-11-14	12.84	5.10	7.22	2.05	nan	nan
2022-11-15	12.84	5.10	7.22	2.05	nan	nan
2022-11-16	12.84	5.10	7.22	2.05	nan	nan
2022-11-17	12.84	5.10	7.22	2.05	nan	nan
2022-11-18	12.84	5.10	7.22	2.05	nan	nan
2022-11-19	12.84	5.10	7.22	2.05	nan	nan
2022-11-20	12.84	5.10	7.22	2.05	nan	nan
2022-11-21	12.84	5.10	7.22	2.05	nan	nan
2022-11-22	12.84	5.10	7.22	2.05	nan	nan
2022-11-23	12.84	5.10	7.22	2.05	nan	nan
2022-11-24	12.84	5.10	7.22	2.05	nan	nan
2022-11-25	12.84	5.10	7.22	2.05	nan	nan
2022-11-26	12.84	5.10	7.22	2.05	nan	nan
2022-11-27	12.84	5.10	7.22	2.05	nan	nan
2022-11-28	12.84	5.10	7.22	2.05	nan	nan
2022-11-29	12.84	5.10	7.22	2.05	nan	nan
2022-11-30	12.84	5.10	7.22	2.05	nan	nan
2022-12-01	12.84	5.10	7.22	2.05	nan	nan
2022-12-02	12.84	5.10	7.22	2.05	nan	nan
2022-12-03	12.84	5.10	7.22	2.05	nan	nan
2022-12-04	12.84	5.10	7.22	2.05	nan	nan
2022-12-05	12.84	5.10	7.22	2.05	nan	nan
2022-12-06	12.84	5.10	7.22	2.05	nan	nan
2022-12-07	12.84	5.10	7.22	2.05	nan	nan
2022-12-08	12.84	5.10	7.22	2.05	nan	nan
2022-12-09	12.84	5.10	7.22	2.05	nan	nan
2022-12-10	12.84	5.10	7.22	2.05	nan	nan
2022-12-11	12.84	5.10	7.22	2.05	nan	nan
2022-12-12	22.33	5.44	7.14	2.49	0.00	0.03
2022-12-13	42.89	6.36	6.95	4.43	0.00	0.03
2022-12-14	34.20	7.70	6.81	12.40	0.00	0.03
2022-12-15	34.20	7.70	6.81	12.40	0.00	0.03

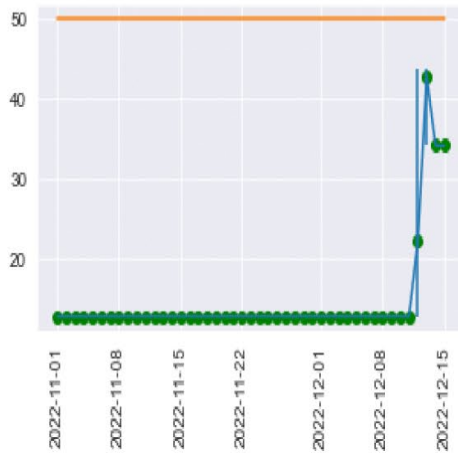
Yelahanka TTP Ammonical Nitrogen



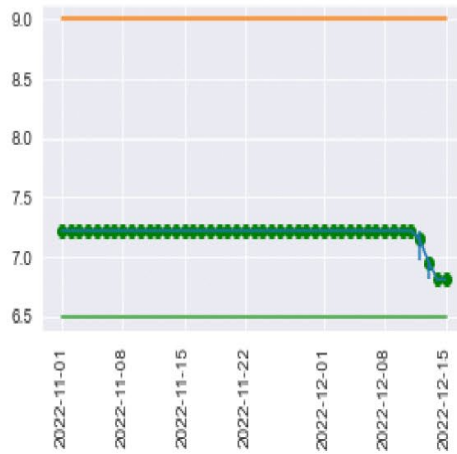
Yelahanka TTP BOD



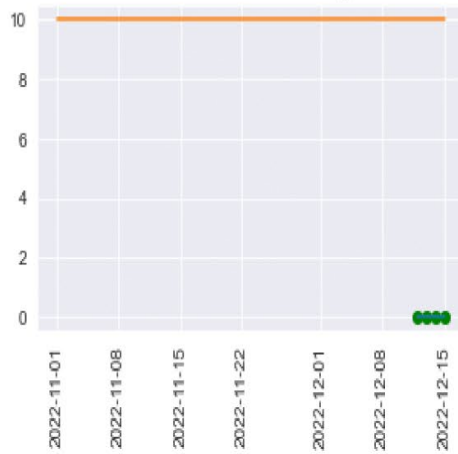
Yelahanka TTP COD



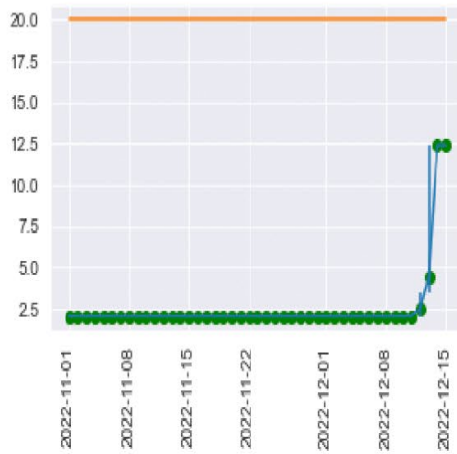
Yelahanka TTP pH



Yelahanka TTP Total Nitrogen



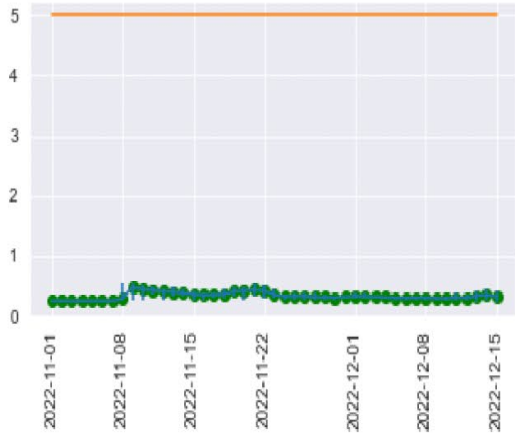
Yelahanka TTP TSS



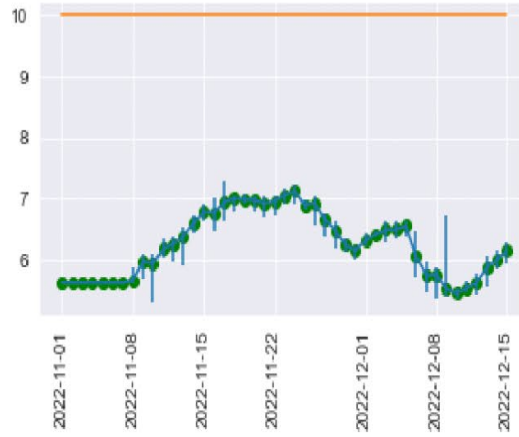
xxviii) Yelemallappa Chetti

Yelemallappa Chetti						
Date	avg_COD	avg_BOD	avg_pH	avg_TSS	avg_Ammonical Nitrogen	avg_Total Nitrogen
2022-11-01	34.04	5.62	6.94	5.83	0.24	0.90
2022-11-02	34.04	5.62	6.94	5.83	0.24	0.90
2022-11-03	34.04	5.62	6.94	5.83	0.24	0.90
2022-11-04	34.04	5.62	6.94	5.83	0.24	0.90
2022-11-05	34.04	5.62	6.94	5.83	0.24	0.90
2022-11-06	34.04	5.62	6.94	5.83	0.24	0.90
2022-11-07	34.04	5.62	6.94	5.83	0.24	0.90
2022-11-08	34.10	5.66	6.94	5.89	0.28	0.87
2022-11-09	34.78	5.97	6.86	7.59	0.47	0.64
2022-11-10	34.67	5.93	6.87	7.67	0.43	0.61
2022-11-11	34.75	6.18	6.87	6.33	0.42	0.61
2022-11-12	34.96	6.25	6.87	6.90	0.40	0.61
2022-11-13	35.26	6.38	6.83	7.64	0.39	0.60
2022-11-14	35.30	6.60	6.84	7.07	0.37	0.60
2022-11-15	35.45	6.77	6.88	7.66	0.35	0.60
2022-11-16	35.58	6.77	6.88	7.65	0.34	0.60
2022-11-17	35.59	6.93	6.90	7.01	0.34	0.60
2022-11-18	35.60	7.00	6.89	6.98	0.35	0.61
2022-11-19	35.52	6.98	6.84	6.51	0.40	0.60
2022-11-20	35.75	6.98	6.84	7.55	0.41	0.54
2022-11-21	35.87	6.92	6.82	8.05	0.43	0.51
2022-11-22	35.81	6.96	6.83	7.62	0.41	0.53
2022-11-23	35.81	7.05	6.92	7.24	0.35	0.62
2022-11-24	35.83	7.12	6.95	7.43	0.32	0.69
2022-11-25	35.62	6.89	6.91	7.26	0.32	0.70
2022-11-26	35.84	6.93	6.94	7.93	0.32	0.71
2022-11-27	35.77	6.65	6.98	8.17	0.31	0.74
2022-11-28	35.68	6.48	7.03	8.35	0.30	0.79
2022-11-29	35.24	6.24	7.04	7.69	0.30	0.80
2022-11-30	35.07	6.14	7.00	7.32	0.31	0.81
2022-12-01	35.21	6.32	6.96	6.99	0.32	0.82
2022-12-02	35.25	6.41	6.94	6.86	0.31	0.89
2022-12-03	35.45	6.49	6.97	7.41	0.31	0.89
2022-12-04	35.52	6.49	7.02	7.63	0.30	0.87
2022-12-05	35.59	6.55	7.08	8.30	0.29	0.89
2022-12-06	35.29	6.06	7.06	10.37	0.29	0.90
2022-12-07	34.96	5.74	7.10	7.87	0.29	0.89
2022-12-08	34.93	5.75	7.07	8.27	0.29	0.89
2022-12-09	34.71	5.51	7.03	7.84	0.28	0.90
2022-12-10	34.59	5.45	7.03	7.55	0.28	0.90
2022-12-11	34.53	5.52	6.91	7.68	0.30	0.85
2022-12-12	34.64	5.63	6.84	6.98	0.29	0.83
2022-12-13	34.96	5.87	6.79	7.83	0.33	0.79
2022-12-14	34.90	5.99	6.78	6.84	0.34	0.80
2022-12-15	35.22	6.14	6.84	7.78	0.31	0.81

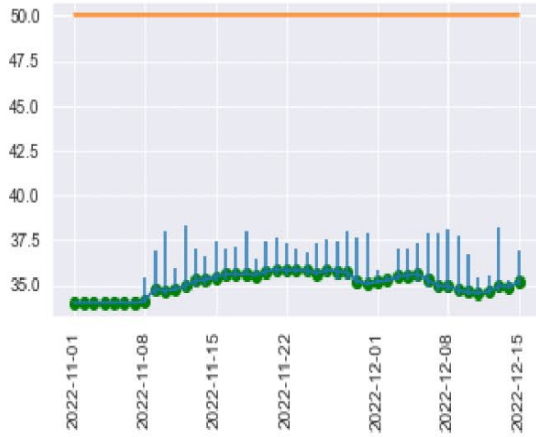
Yelemallappa Chetti Ammonical Nitrogen



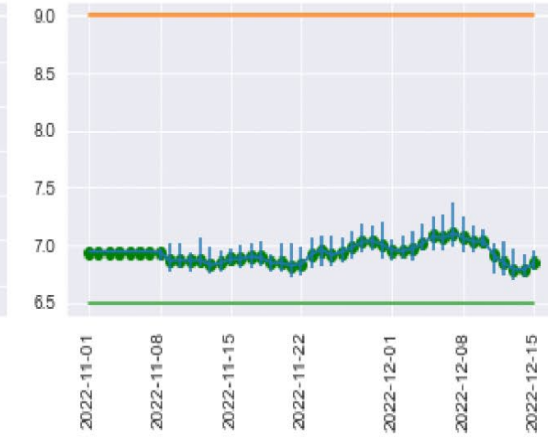
Yelemallappa Chetti BOD



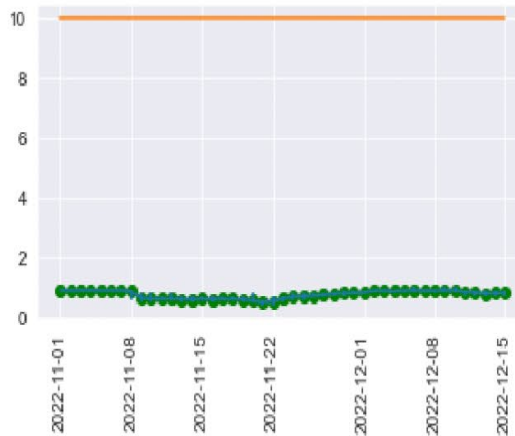
Yelemallappa Chetti COD



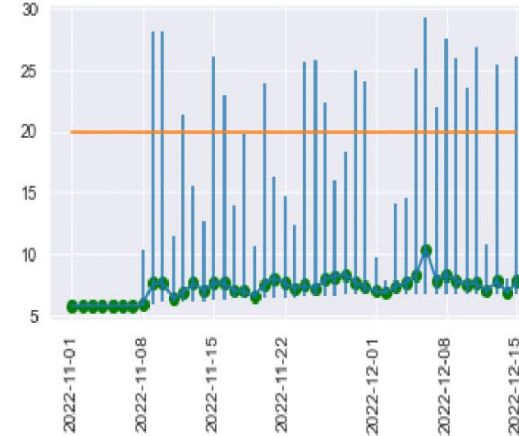
Yelemallappa Chetti pH



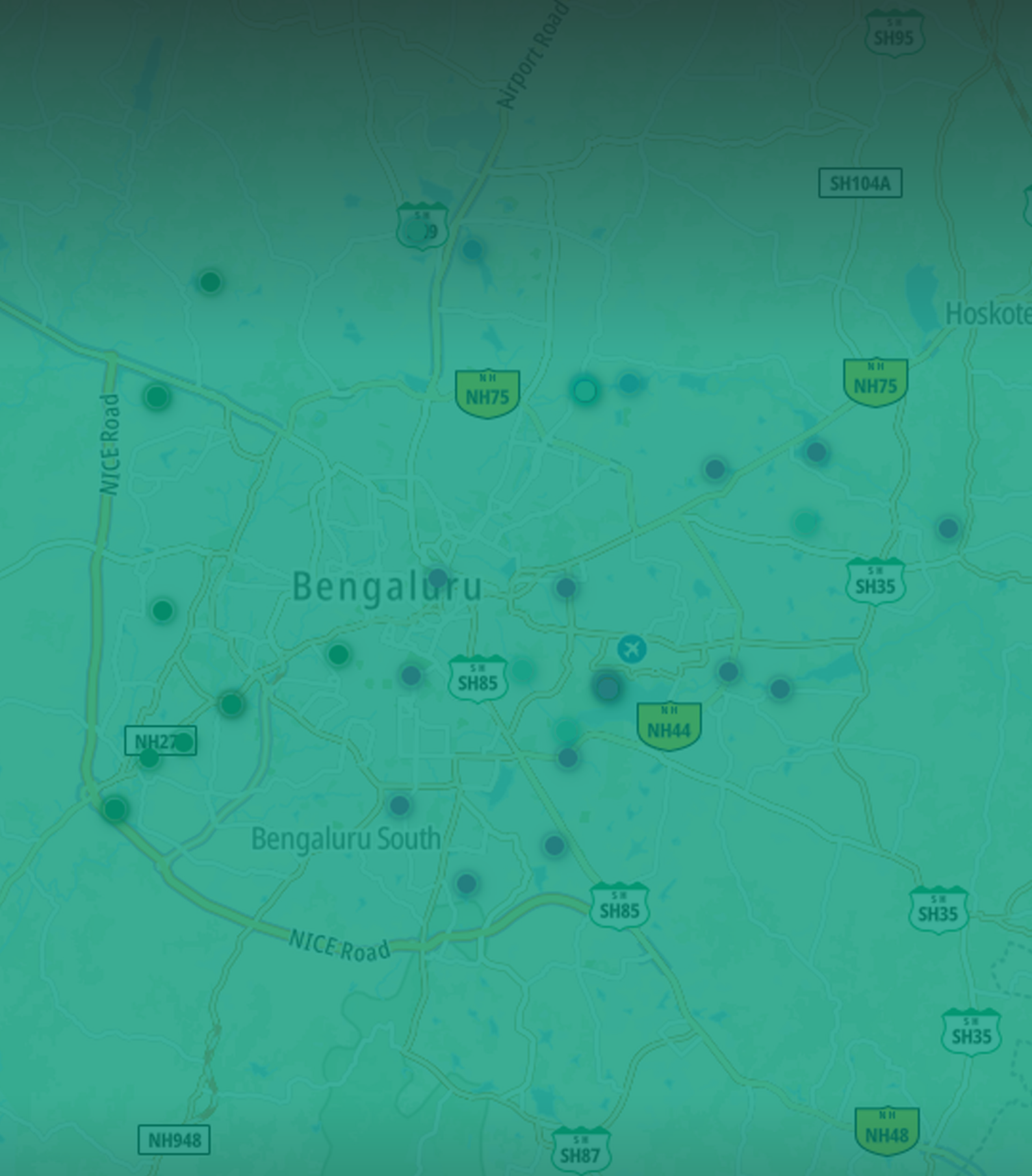
Yelemallappa Chetti Total Nitrogen



Yelemallappa Chetti TSS



- xxix) Hebbal : All parameters not configured
- xxx) K&C Valley 218 : All parameters not configured
- xxxi) Kengeri : All parameters not configured



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Bannerghatta
National Park