

## DATA MENTAH

Inlet					
	11/06/2024	12/06/2024	13/06/2024	14/06/2024	15/06/2024
<b>cod</b>	1	2	3	4	5
U1	2527	1802	1998	1813	1857
U2	2593	1823	1948	1785	1823
U3	2722	1974	1983	1772	1792
mean	2614,00	1866,33	1976,33	1790,00	1824,00
sd	99,18	93,83	25,66	20,95	32,51

Inlet					
	11/06/2024	12/06/2024	13/06/2024	14/06/2024	15/06/2024
<b>Amonia</b>	1	2	3	4	5
U1	1452	1272,5	1108	1032	923
U2	1340	1110	1273,5	1155	1012
U3	1389	1225	1242,5	1153	1085
mean	1393,67	1202,50	1208,00	1113,33	1006,67
sd	56,15	83,55	87,98	70,44	81,13

Outlet (Kaldne)					
	11/06/2024	12/06/2024	13/06/2024	14/06/2024	15/06/2024
<b>cod</b>	1	2	3	4	5
U1	1124	1032	882	765	662
U2	1131	1165	851	731	744
U3	1306	1040	833	807,5	748
mean	1187,00	1079,00	855,33	767,83	718,00
sd	103,12	74,59	24,79	38,33	48,54

Outlet (Kaldne)					
	11/06/2024	12/06/2024	13/06/2024	14/06/2024	15/06/2024
<b>Amonia</b>	1	2	3	4	5
U1	1123	1021	943	755	637,5
U2	1247	1014	985	717,5	642
U3	1161	1105	991	765	664,5
mean	1177,00	1046,67	973,00	745,83	648,00
sd	63,53	50,64	26,15	25,04	14,47

Outlet (Biogro)					
	11/06/2024	12/06/2024	13/06/2024	14/06/2024	15/06/2024
<b>cod</b>	1	2	3	4	5
U1	1194	776	670	612	537,5
U2	1012	783	627	582	545
U3	1169	754	672	648	555
mean	1125,00	771,00	656,33	614,00	545,83
sd	98,66	15,13	25,42	33,05	8,78

	Outlet (Biogro)				
	11/06/2024	12/06/2024	13/06/2024	14/06/2024	15/06/2024
<b>Amonia</b>	1	2	3	4	5
U1	1130	957	740	552	527,5
U2	1172	975	739	632	505
U3	1023	903	717,5	674	515
mean	1108,33	945,00	732,17	619,33	515,83
sd	76,83	37,47	12,71	61,98	11,27

16/06/2024	17/06/2024	18/06/2024	19/06/2024	20/06/2024
6	7	8	9	10
1774	1592	1645	1398	1282
1679	1578	1582	1337	1251
1571	1521	1523	1310	1223
1674,67	1563,67	1583,33	1348,33	1252,00
101,57	37,61	61,01	45,08	29,51

16/06/2024	17/06/2024	18/06/2024	19/06/2024	20/06/2024
6	7	8	9	10
985	942,5	935	943,5	912
934	963	941	979	935
982	987	957	832	924
967,00	964,17	944,33	918,17	923,67
28,62	22,27	11,37	76,70	11,50

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16/06/2024	17/06/2024	18/06/2024	19/06/2024	20/06/2024
6	7	8	9	10
597	556	483	321	241
572	523	401	376	296
634	517	459	341	278
601,00	532,00	447,67	346,00	271,67
31,19	21,00	42,16	27,84	28,04

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16/06/2024	17/06/2024	18/06/2024	19/06/2024	20/06/2024
6	7	8	9	10
576	579	401	304	223
592,5	560	434	262	202
575	575	472	235	223
581,17	571,33	435,67	267,00	216,00
9,83	10,02	35,53	34,77	12,12

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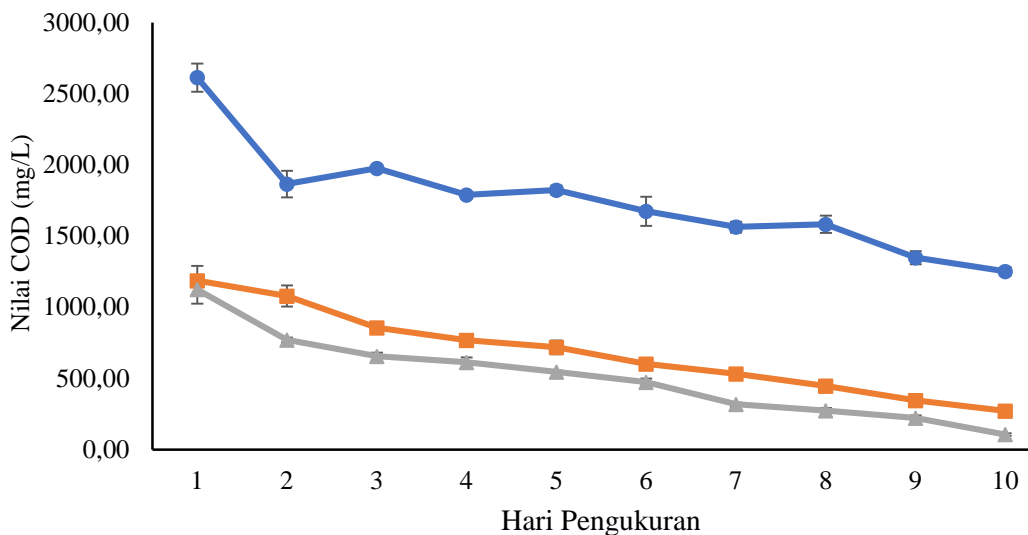
16/06/2024	17/06/2024	18/06/2024	19/06/2024	20/06/2024
6	7	8	9	10
493	306	253	241	106
484	313	283	203	116
446	333	285	222	98
474,33	317,33	273,67	222,00	106,67
24,95	14,01	17,93	19,00	9,02

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16/06/2024	17/06/2024	18/06/2024	19/06/2024	20/06/2024
6	7	8	9	10
476	368	307,5	166	102
455	391	297	184	104
492,5	458	262	150	134
474,50	405,67	288,83	166,67	113,33
18,79	46,76	23,82	17,01	17,93

Tanggal	Hari	Nilai rata-rata Nilai COD (mg/L)		
		inlet	Outlet (Kaldness)	Outlet (Biogrow)
11/06/2024	1	2614,00	1187,00	1125,00
12/06/2024	2	1866,33	1079,00	771,00
13/06/2024	3	1976,33	855,33	656,33
14/06/2024	4	1790,00	767,83	614,00
15/06/2024	5	1824,00	718,00	545,83
16/06/2024	6	1674,67	601,00	474,33
17/06/2024	7	1563,67	532,00	317,33
18/06/2024	8	1583,33	447,67	273,67
19/06/2024	9	1348,33	346,00	222,00
20/06/2024	10	1252,00	271,67	106,67
Rata-rata		1749,27	680,55	510,62
Standar Deviasi		379,45	301,21	301,80

Hari	Standar Deviasi COD (mg/L)		
	inlet	Outlet (Kaldness)	Outlet (Biogrow)
1	99,18	103,12	98,66
2	93,83	74,59	15,13
3	25,66	24,79	25,42
4	20,95	38,33	33,05
5	32,51	48,54	8,78
6	101,57	31,19	24,95
7	37,61	21,00	14,01
8	61,01	42,16	17,93
9	45,08	27,84	19,00
10	29,51	28,04	9,02
	54,69	43,96	26,59



Rata-rata

No	Media	COD Efisiensi (%)	Amonia Efisiensi (%)
1	Kaldness	62,57	39,86
2	Biogrow	72,73	52,23

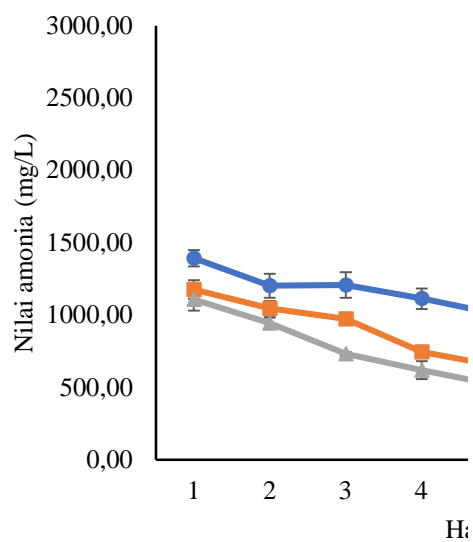
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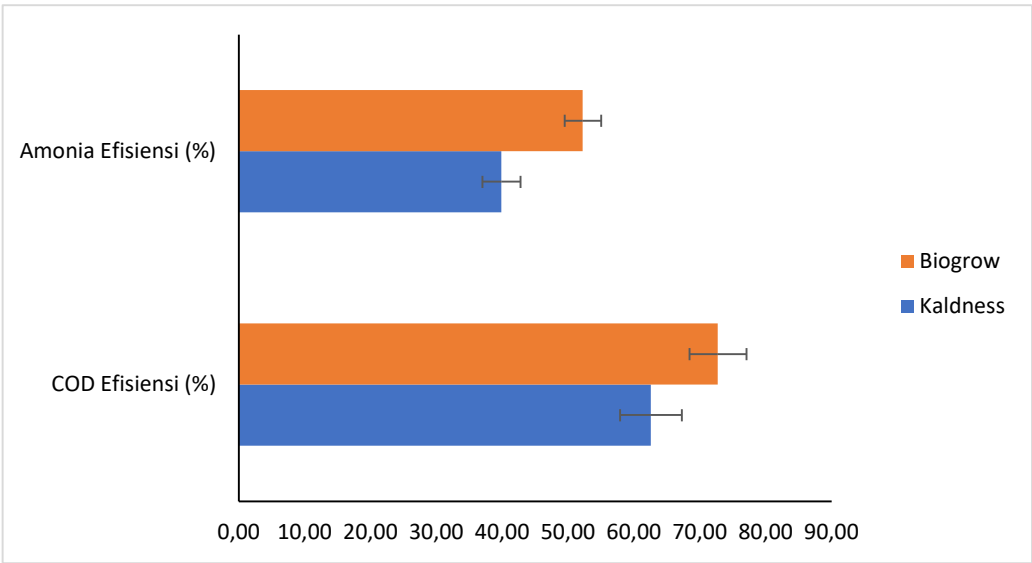
No	Media	COD Efisiensi (%)	Amonia Efisiensi (%)
1	Kaldness	4,70	2,88
2	Biogrow	4,33	2,76

(% Penurunan			Nilai rata-rata amoni
Outlet (Kaldness)	Outlet (Biogrow)	inlet	Outlet (Kaldness)
54,59	56,96	1393,67	1177,00
42,19	58,69	1202,50	1046,67
56,72	66,79	1208,00	973,00
57,10	65,70	1113,33	745,83
60,64	70,07	1006,67	648,00
64,11	71,68	967,00	581,17
65,98	79,71	964,17	571,33
71,73	82,72	944,33	435,67
74,34	83,54	918,17	267,00
78,30	91,48	923,67	216,00
62,57	72,73	1064,15	666,17
10,70	11,33	159,50	322,82

Hari	inlet
1	56,15
2	83,55
3	87,98
4	70,44
5	81,13
6	28,62
7	22,27
8	11,37
9	76,70
10	11,50
	52,97

● inlet  
 ■ Outlet (Kaldness)  
 ▲ Outlet (Biogrow)





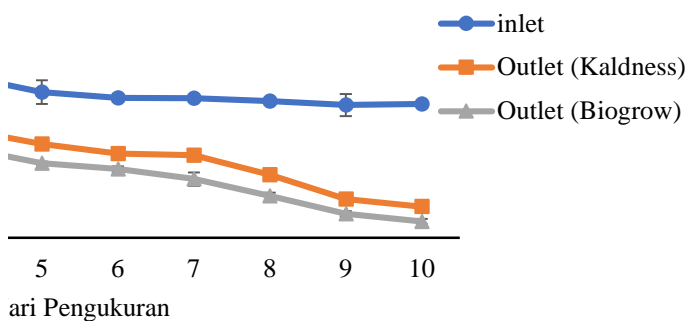
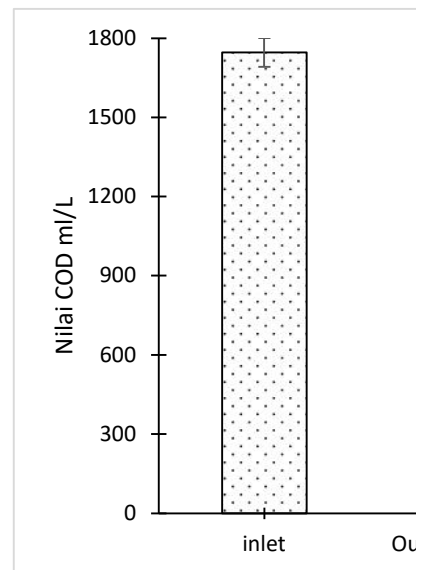
ia (mg/L)

(%) Penurunan

Outlet (Biogrow)	Outlet (Kaldness)	Outlet (Biogrow)
1108,33	15,55	20,47
945,00	12,96	21,41
732,17	19,45	39,39
619,33	33,01	44,37
515,83	35,63	48,76
474,50	39,90	50,93
405,67	40,74	57,93
288,83	53,87	69,41
166,67	70,92	81,85
113,33	76,61	87,73
536,97	39,86	52,23
322,76	21,88	22,76

Standar Deviasi Amonia (mg/L)

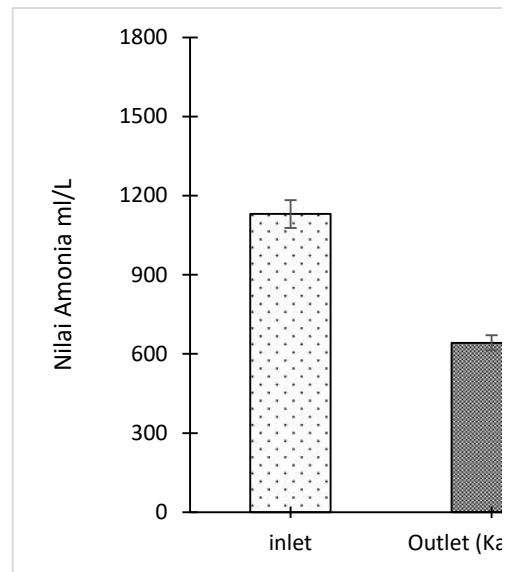
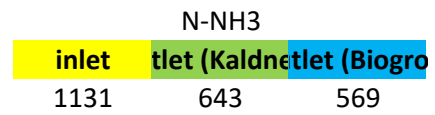
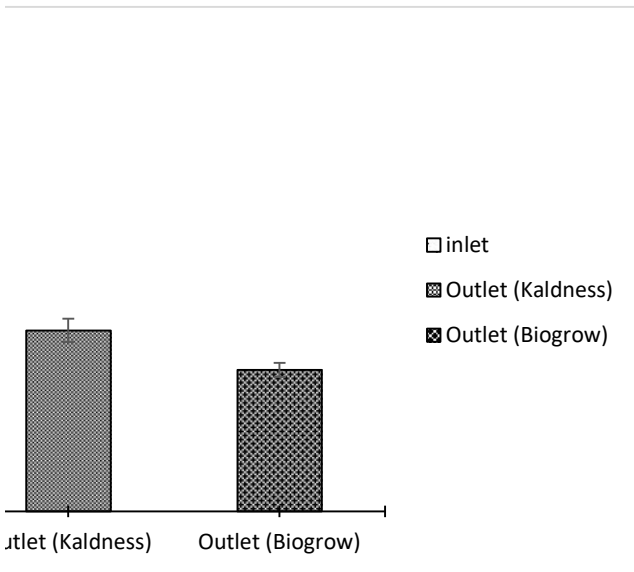
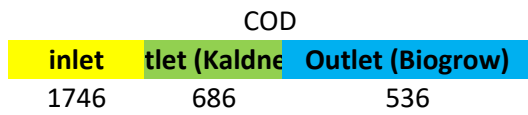
Outlet (Kaldness)	Outlet (Biogrow)
63,53	76,83
50,64	37,47
26,15	12,71
25,04	61,98
14,47	11,27
9,83	18,79
10,02	46,76
35,53	23,82
34,77	17,01
12,12	17,93
28,21	32,46





(%) Penurunan

Hari	COD		N-NH3	
	inlet (Kaldness)	Outlet (Biogrow)	Outlet (Kaldness)	Outlet (Biogrow)
1	54,59	56,96	15,55	20,47
2	42,19	58,69	12,96	21,41
3	56,72	66,79	19,45	39,39
4	57,10	65,70	33,01	44,37
5	60,64	70,07	35,63	48,76
6	64,11	71,68	39,90	50,93
7	65,98	79,71	40,74	57,93
8	71,73	82,72	53,87	69,41
9	74,34	83,54	70,92	81,85
10	78,30	91,48	76,61	87,73





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