



เอกสารอ้างอิง

1. มั่นสิน คัตตุลเวศม์, " การออกแบบชั้นขบวนการของระบบกำจัดน้ำเสียที่อาศัยหลักชีววิทยา," เล่มที่ 3 การออกแบบ, ภาควิชาวิศวกรรมสุขาภิบาล คณะวิศวกรรมศาสตร์ จุฬาลงกรณ์มหาวิทยาลัย, 2523.
2. มั่นสิน คัตตุลเวศม์, " การควบคุมระบบแอกทิเวตเต็ดสลัดจ์," เอกสารการสัมมนาทางวิชาการเรื่อง การควบคุมดูแลระบบขจัดน้ำเสียด้วยวิธีชีววิทยา, กรมโรงงานอุตสาหกรรม, กระทรวงอุตสาหกรรม, 28 กรกฎาคม 2526.
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ศูนย์วิทยทรัพยากร  
จุฬาลงกรณ์มหาวิทยาลัย





ศูนย์วิจัยทรัพยากร  
จุฬาลงกรณ์มหาวิทยาลัย

ตารางที่ 1 แสดงข้อมูลที่ไต่จากการทดลองครั้งที่ 1

RUN NO. : 1  
TYPE : RAW WASTEWATER

DATE	pH	TCOD	TKN	TPO <sub>4</sub>	FLOW
01/05/27	7.0	565.8	23.8	-	30
02/05/27	7.2	631.6	-	-	30
03/05/27	7.2	618.4	-	-	30
05/05/27	-	482.5	-	-	30
06/05/27	-	529.2	24.8	-	30
07/05/27	7.6	505.8	-	-	30
08/05/27	7.5	530.0	-	-	30
09/05/27	7.8	537.0	-	-	30
10/05/27	7.4	575.9	-	-	30
11/05/27	7.4	530.0	-	-	30
12/05/27	7.3	461.5	23.3	300	30
13/05/27	7.3	500.0	-	-	30
14/05/27	7.4	492.3	-	-	30
15/05/27	7.4	515.4	-	-	30
16/05/27	7.4	477.0	-	-	30
17/05/27	7.5	500.0	22.8	-	30
18/05/27	7.3	531.3	-	-	30
19/05/27	7.4	515.4	-	-	30
20/05/27	7.3	492.3	-	-	30
21/05/27	7.6	445.3	23.8	-	30
22/05/27	7.6	531.3	-	-	30
23/05/27	7.4	510.0	-	-	30
26/05/27	7.2	480.5	-	-	30
27/05/27	7.6	492.2	-	-	30
28/05/27	7.4	526.3	-	-	30
29/05/27	7.4	459.8	25.4	-	30
30/05/27	7.5	488.9	-	-	30
01/06/27	7.4	473.7	-	-	30
03/06/27	7.6	488.7	24.8	-	30
04/06/27	7.8	512.8	23.3	-	30
08/06/27	7.4	461.5	-	-	30
11/06/27	7.5	498.2	25.4	368	30
12/06/27	7.5	534.8	25.4	300	30
13/06/27	7.4	527.5	22.8	300	30
14/06/27	7.5	498.1	23.8	-	30
15/06/27	7.5	494.3	-	-	30
16/06/27	7.7	513.4	-	-	30
18/06/27	7.6	498.1	-	-	30
19/06/27	7.3	513.4	23.3	-	30
20/06/27	7.4	559.7	22.8	-	30
21/06/27	7.5	500.0	-	-	30
22/06/27	7.4	511.2	-	-	30
25/06/27	7.4	511.2	23.2	-	30
26/06/27	7.5	500.0	25.4	-	30
27/06/27	7.6	556.0	21.8	-	30
28/06/27	7.4	567.2	22.8	-	30
29/06/27	7.4	500.0	25.4	-	30
เฉลี่ย	7.4	513.7	24.0	317	30



ตารางที่ 1 ( ต่อ )

RUN NO. : 1  
TYPE : AERATION TANK

DATE	TEMP	DO	pH	ORP	SS	V <sub>30</sub>	SVI	HRT	SRT
01/05/27	29	5.8	7.4	+ 60	2520	840	333	8	20
02/05/27	29	5.8	7.4	+130	2530	300	119	8	20
03/05/27	29	6.0	7.4	+180	2510	690	275	8	20
05/05/27	29	6.1	7.6	+100	2170	500	230	8	20
06/05/27	29	5.5	7.6	+ 70	2150	700	326	8	20
07/05/27	28	5.5	7.7	+ 30	2020	620	307	8	20
08/05/27	29	5.6	7.7	+140	1830	500	273	8	20
09/05/27	27	6.0	7.8	+180	1830	500	273	8	20
10/05/27	27	5.8	7.6	+100	1910	550	288	8	20
11/05/27	29	5.7	7.6	+100	2100	650	310	8	20
12/05/27	27	5.8	7.5	+110	2210	800	362	8	20
13/05/27	28	5.6	7.6	+200	1850	820	443	8	20
14/05/27	28	6.0	7.8	+140	1670	800	479	8	20
15/05/27	28	6.0	8.1	+220	1540	790	513	8	20
16/05/27	28	6.0	7.8	+160	1880	800	426	8	20
17/05/27	29	6.1	7.8	+200	1680	800	476	8	20
18/05/27	28	6.2	7.8	+200	1520	800	526	8	20
19/05/27	29	6.0	7.6	+200	1530	850	556	8	20
20/05/27	28	6.0	7.6	+110	1280	810	633	8	20
21/05/27	30	6.0	7.7	+200	1240	900	726	8	20
22/05/27	27	6.2	7.9	+100	2160	910	421	8	20
23/05/27	28	6.4	7.6	+160	1760	910	517	8	20
26/05/27	29	6.3	7.6	+180	1670	980	587	8	20
27/05/27	30	6.2	7.5	+150	1810	980	541	8	20
28/05/27	28	6.1	7.6	+190	1980	980	495	8	20
29/05/27	29	6.0	7.8	+150	1380	980	710	8	20
30/05/27	27	6.3	7.7	+220	1310	960	733	8	20
01/06/27	28	6.0	7.5	+210	1130	960	850	8	20
03/06/27	29	6.2	8.0	+180	1280	920	719	8	20
04/06/27	29	6.4	7.8	+160	1510	900	596	8	20
08/06/27	28	6.5	7.8	+160	1200	900	750	8	20
11/06/27	28	6.0	7.9	+160	1000	300	300	8	20
12/06/27	28	8.0	7.9	+180	830	180	217	8	20
13/06/27	29	8.2	7.9	+160	830	180	217	8	20
14/06/27	29	7.0	7.8	+160	1550	140	90	8	20
15/06/27	28	7.2	7.9	+140	1490	180	120	8	20
16/06/27	29	7.8	7.9	+140	1290	120	93	8	20
18/06/27	29	7.2	7.9	+110	1210	140	116	8	20
19/06/27	29	7.0	7.7	+140	1290	220	171	8	20
20/06/27	28	7.2	7.9	+110	1110	615	554	8	20
21/06/27	29	7.5	7.6	+110	1240	800	645	8	20
22/06/27	29	6.8	7.7	+120	1250	790	632	8	20
25/06/27	28	7.2	7.6	+130	980	900	918	8	20
26/06/27	27	7.2	7.6	+140	830	920	1108	8	20
27/06/27	26	7.1	7.4	+190	880	920	1045	8	20
28/06/27	26	7.0	7.7	+160	870	920	1057	8	20
29/06/27	27	7.0	7.7	+120	980	920	939	8	20
เฉลี่ย	28	6.4	7.6	+147	1560	695	490	8	20



ตารางที่ 1 ( ต่อ )

RUN NO. : 1  
TYPE : AERATION TANK ( CONTINUE )

DATE	FCOD	TKN	NH <sub>3</sub>	ORGN	NO <sub>3</sub>	NO <sub>2</sub>	TN	TPO <sub>4</sub>	ALK
01/05/27	65.8	9.24	0.00	9.24	1.40	0.38	11.02		-
02/05/27	65.8	3.94	2.54	1.40	2.05	0.38	6.37		-
03/05/27	65.8	2.52	0.00	2.52	1.50	0.38	4.40		-
05/05/27	15.6	1.54	0.00	1.54	1.50	0.38	3.42		-
06/05/27	15.6	5.60	0.00	5.60	0.00	2.25	7.85		-
07/05/27	15.6	1.68	0.00	1.68	0.00	2.25	3.93		-
08/05/27	36.3	1.96	0.00	1.96	0.00	2.25	4.21		-
09/05/27	46.7	1.96	0.00	1.96	0.00	2.25	4.21		-
10/05/27	7.8	0.56	0.00	0.56	0.00	2.25	2.81		-
11/05/27	30.7	3.08	0.00	3.08	0.00	2.25	5.33		-
12/05/27	30.7	3.08	0.00	3.08	0.00	2.25	5.33		-
13/05/27	7.7	2.24	0.00	2.24	0.00	2.25	4.49		-
14/05/27	15.4	2.24	0.00	2.24	0.00	2.25	4.49		-
15/05/27	15.4	2.80	0.00	2.80	0.00	0.38	3.18		185
16/05/27	11.5	-	-	-	0.00	2.25	-		-
17/05/27	20.8	2.24	0.00	2.24	0.00	2.25	4.49		-
18/05/27	27.4	3.08	0.00	3.08	0.00	0.38	3.46		-
19/05/27	23.4	0.56	0.00	0.56	3.67	2.25	6.48		-
20/05/27	23.4	3.08	0.00	3.08	3.67	2.25	9.00		-
21/05/27	23.4	0.56	0.00	0.56	3.67	2.25	6.48		-
22/05/27	27.4	1.96	0.00	1.96	3.53	0.38	5.87		-
23/05/27	20.8	1.96	0.00	1.96	3.67	2.25	7.88		-
26/05/27	19.5	-	-	-	3.53	0.00	-		-
27/05/27	27.4	-	-	-	3.67	2.25	-		-
28/05/27	22.6	-	-	-	3.67	0.13	-		-
29/05/27	11.3	2.52	0.00	2.52	3.50	0.38	6.40		-
30/05/27	18.9	2.80	0.28	2.52	9.90	0.00	12.70		-
01/06/27	18.9	3.36	0.84	2.52	11.40	0.02	14.78		-
03/06/27	18.9	2.52	0.84	1.68	3.50	0.38	6.40		-
04/06/27	25.6	3.08	0.56	2.52	3.67	2.25	9.00		-
08/06/27	14.7	-	-	-	-	-	-		-
11/06/27	14.7	1.40	0.00	1.40	3.53	0.22	5.15		-
12/06/27	7.3	2.60	0.00	2.60	3.67	0.12	6.39		-
13/06/27	7.3	1.30	1.30	0.00	4.60	0.12	6.02		186
14/06/27	26.8	1.30	0.65	0.65	-	-	-		195
15/06/27	23.0	1.95	0.65	1.30	6.40	0.12	8.47		-
16/06/27	26.8	3.91	0.00	3.91	6.20	0.16	10.27		-
18/06/27	15.3	0.65	0.00	0.65	4.60	0.12	5.37		-
19/06/27	23.0	1.95	0.00	1.95	4.00	0.12	5.37		-
20/06/27	11.2	3.25	0.00	3.25	4.20	0.80	8.25		-
21/06/27	15.0	3.08	0.00	3.08	3.67	2.25	9.00		-
22/06/27	15.0	1.95	0.00	1.95	6.60	1.32	9.87		-
25/06/27	15.0	1.95	0.00	1.95	5.10	0.60	7.65		-
26/06/27	7.5	1.95	0.00	1.95	2.80	2.08	6.83		-
27/06/27	7.5	1.30	0.00	1.30	7.60	0.06	8.96		-
28/06/27	15.0	1.63	0.00	1.63	2.10	0.96	4.69		-
29/06/27	15.0	1.30	0.00	1.30	6.10	0.16	7.56		-
เฉลี่ย	22.1	2.40	0.18	2.24	3.10	1.14	6.70		189



ตารางที่ 1 ( ต่อ )

RUN NO. : 1  
TYPE : ANOXIC TANK

DATE	TEMP	DO	pH	ORP	SS	V <sub>30</sub>	SVI	HRT	SRT
01/05/27	29	0.5	7.5	+ 80	3670	880	240	24	20
02/05/27	29	0.5	7.1	+160	3880	660	170	24	20
03/05/27	29	0.5	7.0	+200	3340	820	246	24	20
05/05/27	29	0.5	7.4	+130	3420	700	205	24	20
06/05/27	29	0.5	7.5	+100	3090	700	227	24	20
07/05/27	28	0.5	7.5	+ 70	2590	640	247	24	20
08/05/27	29	0.5	7.6	+150	2590	600	232	24	20
09/05/27	27	0.5	7.7	+190	2580	580	225	24	20
10/05/27	27	0.5	7.5	+180	2330	600	258	24	20
11/05/27	29	0.5	7.5	+170	2380	650	273	24	20
12/05/27	27	0.5	7.5	+170	2470	700	283	24	20
13/05/27	28	0.5	7.4	+220	2390	780	326	24	20
14/05/27	28	0.5	7.4	+150	2340	780	333	24	20
15/05/27	28	0.5	7.5	+190	2150	860	400	24	20
16/05/27	28	0.5	7.5	+160	2480	860	347	24	20
17/05/27	29	0.5	7.5	+160	2230	880	395	24	20
18/05/27	28	0.5	7.5	+170	2030	920	453	24	20
19/05/27	29	0.5	7.5	+170	1860	910	489	24	20
20/05/27	28	0.5	7.4	+120	1350	920	682	24	20
21/05/27	30	0.5	7.4	+170	1420	930	655	24	20
22/05/27	27	0.5	7.5	+110	2000	930	465	24	20
23/05/27	28	0.5	7.6	+160	1880	930	495	24	20
26/05/27	29	0.5	7.3	+200	1940	990	510	24	20
27/05/27	30	0.5	7.5	+120	2370	980	414	24	20
28/05/27	28	0.5	7.3	+140	2340	980	418	24	20
29/05/27	29	0.5	7.6	+180	2130	990	465	24	20
30/05/27	27	0.5	7.5	+250	1690	980	580	24	20
01/06/27	28	0.5	7.9	+180	1380	980	710	24	20
03/06/27	29	0.5	7.9	+160	1270	940	740	24	20
04/06/27	29	0.5	7.5	+200	1710	860	503	24	20
08/06/27	28	0.5	7.6	+180	1880	870	463	24	20
11/06/27	28	0.5	7.5	+200	980	180	184	24	20
12/06/27	28	0.5	7.4	+160	960	180	188	24	20
13/06/27	29	0.5	7.5	+180	830	160	193	24	20
14/06/27	29	0.5	7.5	+180	1640	160	98	24	20
15/06/27	28	0.5	7.5	+190	1550	160	103	24	20
16/06/27	29	0.5	7.4	+150	1390	140	101	24	20
18/06/27	29	0.5	7.4	+120	1200	220	183	24	20
19/06/27	29	0.5	7.2	+130	1040	630	605	24	20
20/06/27	28	0.5	7.5	+140	1210	840	694	24	20
21/06/27	29	0.5	7.6	+140	1320	840	636	24	20
22/06/27	29	0.5	7.5	+140	1630	820	503	24	20
25/06/27	28	0.5	7.4	+100	1100	910	827	24	20
26/06/27	27	0.5	7.3	+ 60	740	940	1270	24	20
27/06/27	26	0.5	7.2	+160	890	940	1056	24	20
28/06/27	26	0.5	7.5	+140	960	940	979	24	20
29/06/27	27	0.5	7.4	+160	1010	940	930	24	20
เฉลี่ย	28	0.5	7.3	+156	1907	740	447	24	20



ตารางที่ 1 ( ต่อ )

RUN NO. : 1

TYPE : ANOXIC TANK ( CONTINUE )

DATE	FCOD	TKN	NH <sub>3</sub>	ORGN	NO <sub>3</sub>	NO <sub>2</sub>	TN	ALK
01/05/27	65.8	4.76	2.52	2.24	2.50	6.00	13.26	-
02/05/27	26.3	3.64	3.08	0.56	2.50	6.25	12.39	-
03/05/27	59.2	8.12	3.64	4.48	3.00	6.00	17.12	-
05/05/27	15.6	3.64	1.96	1.68	2.50	6.25	12.49	-
06/05/27	15.6	3.64	1.96	1.68	2.50	6.25	12.49	-
07/05/27	15.6	3.50	1.12	2.38	0.62	6.00	10.12	-
08/05/27	36.3	1.68	0.56	1.12	0.12	6.00	7.80	-
09/05/27	46.7	1.68	0.56	1.12	0.00	6.00	7.68	-
10/05/27	23.4	1.40	0.56	0.84	0.00	6.25	7.65	-
11/05/27	30.7	3.08	1.12	1.96	0.00	6.25	9.33	-
12/05/27	30.7	3.08	1.12	1.96	0.12	6.00	9.20	-
13/05/27	15.4	2.80	0.00	2.80	0.46	6.65	9.91	-
14/05/27	7.7	3.08	0.56	2.52	0.90	6.25	10.23	-
15/05/27	7.7	3.08	0.00	3.08	0.62	6.00	9.70	176
16/05/27	7.7	3.08	0.54	2.54	0.61	6.00	9.69	-
17/05/27	15.6	2.80	0.00	2.80	0.90	6.25	9.95	-
18/05/27	15.6	3.92	0.56	3.36	0.71	6.25	10.88	-
19/05/27	15.6	1.42	0.56	0.84	1.64	6.65	9.71	-
20/05/27	15.6	3.08	1.12	1.96	1.64	6.65	11.36	-
21/05/27	15.6	1.40	0.56	0.84	1.64	6.65	9.69	-
22/05/27	17.6	1.68	0.56	1.12	1.96	6.25	9.89	-
23/05/27	20.8	1.68	0.56	1.12	1.64	6.65	9.97	-
26/05/27	23.4	-	-	-	2.76	5.75	-	-
27/05/27	27.4	-	-	-	2.36	6.65	-	-
28/05/27	18.9	-	-	-	1.64	6.75	-	-
29/05/27	7.5	3.08	1.12	1.96	1.96	6.25	11.29	-
30/05/27	20.7	4.20	1.68	2.52	7.40	6.00	17.60	-
01/06/27	13.1	3.64	1.12	2.52	9.70	5.50	18.60	-
03/06/27	22.6	3.08	1.12	1.96	1.96	6.25	11.29	-
04/06/27	22.0	3.36	1.12	2.24	2.36	6.65	12.37	-
08/06/27	25.6	-	-	-	-	-	-	-
11/06/27	7.3	1.40	0.00	1.40	2.76	0.56	4.72	-
12/06/27	36.6	2.30	0.00	2.30	1.64	0.16	4.10	-
13/06/27	29.3	0.96	0.00	0.96	6.40	0.28	7.64	-
14/06/27	15.3	2.12	0.96	1.16	-	-	-	176
15/06/27	3.8	1.95	0.65	1.30	9.00	0.16	11.11	216
16/06/27	3.8	5.86	0.00	5.86	10.30	0.24	16.40	-
18/06/27	3.8	0.00	0.00	0.00	6.40	0.28	6.68	-
19/06/27	30.7	2.12	0.00	2.12	4.70	0.56	7.38	-
20/06/27	3.7	3.25	0.00	3.25	3.90	1.56	8.71	-
21/06/27	15.0	3.36	0.00	3.36	2.36	6.65	12.37	-
22/06/27	15.0	0.65	0.00	0.65	4.85	1.60	7.10	-
25/06/27	15.0	2.12	0.00	2.12	4.25	1.76	8.13	-
26/06/27	3.7	1.63	0.00	1.63	2.20	1.68	5.51	-
27/06/27	3.7	0.33	0.00	0.33	7.50	0.44	8.27	-
28/06/27	22.4	2.28	0.00	2.28	2.15	1.40	5.83	-
29/06/27	22.4	1.63	0.00	1.63	6.60	0.16	8.36	-
เฉลี่ย	19.9	2.69	0.72	2.00	3.00	4.60	10.10	189



ตารางที่ 1 ( ต่อ )

RUN NO. : 1  
 TYPE : EFFLUENT : ( \*\* ไม่สามารถทำการวัดผลได้เนื่องจากน้ำทิ้งมีลักษณะใสมาก

DATE	SS	TCOD	FLOW
01/05/27	**	21.9	30
02/05/27	**	43.9	30
03/05/27	**	43.9	30
05/05/27	**	20.8	30
06/05/27	**	24.7	30
07/05/27	**	5.2	30
08/05/27	**	36.3	30
09/05/27	**	36.3	30
10/05/27	**	5.2	30
11/05/27	**	25.6	30
12/05/27	**	25.6	30
13/05/27	**	19.2	30
14/05/27	**	23.1	30
15/05/27	**	15.4	30
16/05/27	**	7.7	30
17/05/27	**	7.8	30
18/05/27	**	7.8	30
19/05/27	**	15.6	30
20/05/27	**	15.6	30
21/05/27	**	23.4	30
22/05/27	**	27.4	30
23/05/27	**	27.4	30
26/05/27	**	27.4	30
27/05/27	**	27.4	30
28/05/27	**	34.1	30
29/05/27	**	15.1	30
30/05/27	**	17.0	30
01/06/27	**	22.6	30
03/06/27	**	15.1	30
04/06/27	**	14.7	30
08/06/27	**	14.7	30
11/06/27	**	18.3	30
12/06/27	**	14.7	30
13/06/27	**	11.0	30
14/06/27	**	23.0	30
15/06/27	**	15.3	30
16/06/27	**	15.3	30
18/06/27	**	15.3	30
19/06/27	**	15.3	30
20/06/27	**	11.5	30
21/06/27	**	11.2	30
22/06/27	**	3.7	30
25/06/27	**	3.7	30
26/06/27	**	3.7	30
27/06/27	**	7.5	30
28/06/27	**	11.2	30
29/06/27	**	20.5	30
เฉลี่ย	**	18.5	30

ตารางที่ 2 แสดงข้อมูลที่ไต่จากการทดลองครั้งที่ 2

RUN NO. : 2  
TYPE : RAW WASTEWATER

DATE	pH	TCOD	TKN	TPO <sub>4</sub>	FLOW
03/07/27	7.4	511.2	49.8	-	30
05/07/27	7.5	510.7	50.8	-	30
07/07/27	7.3	524.6	48.3	-	30
09/07/27	7.5	524.2	49.0	405	30
11/07/27	7.5	513.4	47.9	-	30
13/07/27	7.4	512.0	47.2	-	30
16/07/27	7.6	513.4	47.2	-	30
18/07/27	7.5	557.8	50.8	-	30
20/07/27	7.8	512.0	49.0	-	30
22/07/27	7.3	511.2	50.1	-	30
25/07/27	7.8	512.0	47.9	400	30
26/07/27	7.8	508.0	47.2	-	30
28/07/27	7.6	524.6	48.3	-	30
30/07/27	7.8	508.0	49.8	-	30
02/08/27	7.7	524.6	50.1	-	30
06/08/27	7.5	524.2	50.1	-	30
07/08/27	7.5	510.7	50.8	-	30
08/08/27	7.6	524.2	49.0	416	30
09/08/27	7.6	524.6	48.3	-	30
10/08/27	7.4	557.8	47.6	-	30
13/08/27	7.6	540.2	48.3	-	30
14/08/27	7.5	547.8	50.1	-	30
15/08/27	7.6	525.0	48.3	-	30
16/08/27	7.6	540.2	49.0	-	30
17/08/27	7.6	525.0	48.3	-	30
21/08/27	7.5	522.5	51.8	-	30
22/08/27	7.5	513.4	51.8	-	30
23/08/27	7.5	563.0	50.1	-	30
24/08/27	7.8	518.6	50.1	-	30
25/08/27	7.6	525.0	51.8	408	30
เฉลี่ย	7.6	524.3	49.3	407.3	30



ตารางที่ 2 ( ต่อ )

RUN NO. : 2  
TYPE : AERATION TANK

DATE	TEMP	DO	pH	ORP	SS	V <sub>30</sub>	SVI	HRT	SRT
03/07/27	28	6.7	7.5	+130	1110	980	883	8	20
05/07/27	28	6.8	7.6	+140	1240	980	790	8	20
07/07/27	28	-	7.6	+150	1380	980	710	8	20
09/07/27	26	6.8	7.6	+120	1480	980	662	8	20
11/07/27	27	6.0	7.5	+ 70	1420	980	690	8	20
13/07/27	27	-	7.5	+110	1590	980	6.16	8	20
16/07/27	27	6.7	7.6	+120	1420	980	690	8	20
18/07/27	27	-	7.6	+120	1490	980	658	8	20
20/07/27	29	6.2	7.6	+220	1450	980	675	8	20
22/07/27	29	6.6	7.8	+220	1460	980	671	8	20
25/07/27	29	-	7.6	+120	1320	990	750	8	20
26/07/27	28	6.5	7.4	+180	1330	980	737	8	20
28/07/27	28	-	7.5	+110	1210	980	810	8	20
30/07/27	28	6.4	7.3	+ 70	1250	990	792	8	20
02/08/27	28	6.4	7.6	+140	1760	800	455	8	20
06/08/27	28	6.3	7.5	+120	1800	870	494	8	20
07/08/27	27	6.5	7.4	+110	1740	890	512	8	20
08/08/27	26	6.6	7.6	+180	1570	920	586	8	20
09/08/27	28	6.7	7.6	+130	1480	940	635	8	20
10/08/27	27	6.8	7.6	+140	1680	940	560	8	20
13/08/27	27	7.0	7.7	+120	2060	1000	485	8	20
14/08/27	27	6.5	7.6	+120	1900	1000	526	8	20
15/08/27	28	6.9	7.4	+140	1960	1000	510	8	20
16/08/27	28	6.7	7.5	+100	2190	1000	457	8	20
17/08/27	28	6.8	7.4	+140	2100	1000	476	8	20
21/08/27	28	6.8	7.2	+ 90	1710	1000	585	8	20
22/08/27	27	6.2	7.4	+110	1970	1000	508	8	20
23/08/27	28	6.2	7.4	+110	3160	1000	316	8	20
24/08/27	28	6.3	7.4	+100	2810	1000	356	8	20
25/08/27	28	6.4	7.4	+110	1520	1000	658	8	20
เฉลี่ย	27	6.6	7.5	+128	1685	970	608.4	8	20

ตารางที่ 2 ( ต่อ )

RUN NO. : 2  
TYPE : AERATION TANK ( CONTINUE )

DATE	FCOD	TKN	NH <sub>3</sub>	ORGN	NO <sub>3</sub>	NO <sub>2</sub>	TN	TPO <sub>4</sub>	ALK
03/07/27	45.0	2.00	2.00	0.00	-	-	-	-	-
05/07/27	45.0	-	-	-	-	-	-	-	-
07/07/27	54.0	-	-	-	-	-	-	-	-
09/07/27	54.0	0.88	0.63	0.25	15.0	7.40	23.28	-	-
11/07/27	45.0	0.98	0.65	0.33	10.0	8.40	19.40	-	-
13/07/27	22.8	0.00	0.00	0.00	10.0	1.35	11.35	-	-
16/07/27	22.8	0.98	0.65	0.33	10.0	1.00	11.98	-	-
18/07/27	65.8	0.98	0.33	0.65	0.0	0.00	0.98	-	-
20/07/27	0.0	0.00	0.00	0.00	0.0	0.00	0.00	-	-
22/07/27	0.0	0.98	0.33	0.65	0.0	0.00	0.98	-	-
25/07/27	0.0	0.00	0.00	0.00	-	-	-	-	-
26/07/27	0.0	0.00	0.00	0.00	15.0	0.00	15.00	-	-
28/07/27	0.0	0.98	0.00	0.98	10.0	1.35	12.33	-	-
30/07/27	0.0	-	-	-	-	-	-	-	-
02/08/27	0.0	-	-	-	-	-	-	-	-
06/08/27	3.4	0.70	0.00	0.70	12.8	0.00	13.50	-	-
07/08/27	3.4	1.58	1.58	0.00	13.6	0.15	15.33	-	-
08/08/27	3.4	0.00	0.00	0.00	12.8	0.00	12.80	-	-
09/08/27	3.3	0.70	0.00	0.70	10.0	0.00	10.70	-	-
10/08/27	6.6	1.40	0.00	1.40	10.0	0.00	11.40	-	-
13/08/27	2.3	1.40	0.00	1.40	12.8	0.85	15.05	-	-
14/08/27	15.2	0.00	0.00	0.00	13.6	0.48	14.08	-	-
15/08/27	11.4	0.70	0.00	0.70	10.0	0.08	10.78	-	-
16/08/27	0.0	0.00	0.00	0.00	7.6	0.08	7.68	-	-
17/08/27	0.0	0.00	0.00	0.00	6.0	0.48	6.48	-	-
21/08/27	22.4	0.70	0.00	0.70	20.0	0.00	20.70	-	-
22/08/27	18.6	1.05	0.00	1.05	20.0	1.20	22.25	-	-
23/08/27	11.1	1.40	0.00	1.40	10.0	0.00	11.40	-	-
24/08/27	11.1	1.40	0.00	1.40	18.0	0.30	19.70	-	-
25/08/27	22.4	0.70	0.00	0.70	10.0	0.00	10.70	-	-
เฉลี่ย	16.3	0.75	0.24	0.51	9.9	0.96	12.40	-	-



ตารางที่ 2 ( ต่อ )

RUN NO. : 2  
TYPE : ANOXIC TANK

DATE	TEMP	DO	pH	ORP	SS	V <sub>30</sub>	SVI	HRT	SRT
03/07/27	28	0.5	7.4	+140	1210	980	809	24	20
05/07/27	28	0.5	7.4	+120	1350	980	726	24	20
07/07/27	28	-	7.5	+140	1490	980	658	24	20
09/07/27	26	0.5	7.6	+110	1520	980	645	24	20
11/07/27	27	0.5	7.3	+ 50	1410	980	695	24	20
13/07/27	28	-	7.2	+ 80	1640	980	597	24	20
16/07/27	27	0.5	7.4	+110	1320	980	742	24	20
18/07/27	27	-	7.5	+120	1350	980	726	24	20
20/07/27	29	0.5	7.3	+200	1230	990	805	24	20
22/07/27	29	0.5	7.4	+200	1320	990	750	24	20
25/07/27	29	-	7.3	+200	1430	990	692	24	20
26/07/27	28	0.5	7.2	+160	1230	980	796	24	20
28/07/27	28	-	7.4	+100	1180	980	831	24	20
30/07/27	28	0.5	8.0	+ 50	1130	990	876	24	20
02/08/27	28	0.5	7.3	+120	1530	780	641	24	20
06/08/27	28	0.5	7.4	+130	1750	900	514	24	20
07/08/27	27	0.5	7.0	+140	1830	930	508	24	20
08/08/27	26	0.5	7.3	+200	2750	960	349	24	20
09/08/27	28	0.5	7.3	+160	1800	940	522	24	20
10/08/27	27	0.5	7.3	+160	1810	940	519	24	20
13/08/27	27	0.5	7.4	+140	2140	1000	467	24	20
14/08/27	27	0.5	7.3	+140	1910	1000	524	24	20
15/08/27	28	0.5	7.3	+120	1890	1000	529	24	20
16/08/27	28	0.5	7.1	+130	1670	1000	599	24	20
17/08/27	28	0.5	7.2	+120	1990	1000	503	24	20
21/08/27	28	0.5	7.1	+100	2150	1000	465	24	20
22/08/27	27	0.5	7.2	+120	2430	1000	412	24	20
23/08/27	28	0.5	7.2	+100	3110	1000	322	24	20
24/08/27	28	0.5	7.2	+110	2500	1000	400	24	20
25/08/27	28	0.5	7.2	+100	2100	1000	476	24	20
เฉลี่ย	27.7	0.5	7.3	+129	1739	973.6	603	24	20

ตารางที่ 2 ( ต่อ )

RUN NO. : 2  
 TYPE : ANOXIC TANK ( CONTINUE )

DATE	FCOD	TKN	NH <sub>3</sub>	ORGN	NO <sub>3</sub>	NO <sub>2</sub>	TN	ALK
03/07/27	45.0	1.80	0.80	1.00	-	-	-	-
05/07/27	54.0	-	-	-	-	-	-	-
07/07/27	45.0	-	-	-	-	-	-	-
09/07/27	65.0	0.98	0.65	0.33	10.0	8.40	19.38	-
11/07/27	54.0	0.98	0.33	0.65	10.0	8.40	19.38	-
13/07/27	22.8	0.00	0.00	0.00	5.2	1.35	6.55	-
16/07/27	61.9	0.98	0.65	0.33	10.0	1.35	12.33	-
18/07/27	65.8	0.82	0.65	0.17	0.0	0.00	0.82	134
20/07/27	0.0	0.00	0.00	0.00	0.0	0.00	0.00	-
22/07/27	0.0	0.98	0.33	0.65	0.0	0.00	0.98	-
25/07/27	0.0	1.80	0.80	1.00	-	-	-	-
26/07/27	0.0	0.98	0.65	0.33	10.0	0.00	0.98	-
28/07/27	0.0	0.82	0.00	0.82	10.0	0.00	10.82	-
30/07/27	0.0	-	-	-	-	-	-	-
02/08/27	0.0	-	-	-	-	-	-	-
06/08/27	0.0	0.82	0.00	0.82	10.0	0.00	10.82	-
07/08/27	0.0	3.85	0.00	3.85	8.0	0.30	12.15	-
08/08/27	0.0	0.00	0.00	0.00	5.2	0.15	5.35	137
09/08/27	0.0	0.35	0.35	0.00	5.2	0.20	5.75	-
10/08/27	0.0	1.40	0.00	1.40	7.6	0.10	9.10	-
13/08/27	7.6	1.40	0.00	1.40	8.0	0.55	9.95	-
14/08/27	19.0	0.00	0.00	0.00	5.2	1.35	6.55	137
15/08/27	19.0	0.70	0.00	0.70	5.2	0.63	6.53	-
16/08/27	0.0	0.00	0.00	0.00	10.0	0.55	10.55	-
17/08/27	0.0	0.00	0.00	0.00	8.0	0.55	8.55	-
21/08/27	22.4	0.70	0.00	0.70	15.0	0.80	16.50	-
22/08/27	7.4	1.05	0.00	1.05	15.0	1.25	17.30	-
23/08/27	18.5	1.40	0.00	1.40	5.0	1.25	7.65	-
24/08/27	14.8	1.40	0.00	1.40	15.0	1.50	17.90	-
25/08/27	11.1	0.70	0.00	0.70	7.6	0.55	8.85	-
เฉลี่ย	17.8	0.92	0.20	0.72	7.7	1.22	9.36	136



ตารางที่ 2 ( ต่อ )

RUN NO. : 2  
TYPE : EFFLUENT

DATE	SS	TCOD	FLOW
03/07/27	10	45.0	30
05/07/27	..	65.0	30
07/07/27	..	54.0	30
09/07/27	..	45.0	30
11/07/27	..	22.8	30
13/07/27	..	22.8	30
16/07/27	..	54.0	30
18/07/27	..	54.0	30
20/07/27	..	0.0	30
22/07/27	..	0.0	30
25/07/27	..	0.0	30
26/07/27	..	0.0	30
28/07/27	..	0.0	30
30/07/27	10	0.0	30
02/08/27	..	0.0	30
06/08/27	..	0.0	30
07/08/27	..	1.7	30
08/08/27	..	3.4	30
09/08/27	..	0.0	30
10/08/27	..	3.3	30
13/08/27	..	7.6	30
14/08/27	..	15.2	30
15/08/27	..	15.2	30
16/08/27	..	0.0	30
17/08/27	..	0.0	30
21/08/27	10	18.7	30
22/08/27	..	7.4	30
23/08/27	..	18.5	30
24/08/27	..	11.1	30
25/08/27	..	0.0	30
เฉลี่ย		15.5	30

หมายเหตุ \*\* ไม่สามารถทำการวัดผลได้ เนื่องจากน้ำทิ้งมีลักษณะใสมาก

ตารางที่ 3 แสดงข้อมูลที่ไต่จากการทดลองครั้งที่ 3

RUN NO. : 3  
TYPE : RAW WASTEWATER

DATE	pH	TCOD	TKN	TPO <sub>4</sub>	FLOW
10/09/27	7.5	464.4	93.80	-	30
11/09/27	7.5	674.1	91.00	-	30
12/09/27	7.6	501.8	91.00	-	30
13/09/27	7.6	511.0	90.30	-	30
17/09/27	7.6	549.0	97.65	-	30
18/09/27	7.5	521.7	90.30	-	30
19/09/27	7.5	466.4	86.45	-	30
20/09/27	7.8	521.7	91.00	-	30
21/09/27	7.6	549.0	97.30	-	30
24/09/27	7.5	500.0	97.65	298.0	30
25/09/27	7.3	500.0	88.20	-	30
26/09/27	7.5	519.4	97.30	-	30
27/09/27	7.5	525.7	97.65	-	30
08/10/27	7.5	500.0	97.65	-	30
09/10/27	7.6	513.2	92.75	-	30
10/10/27	7.5	513.2	98.70	-	30
11/10/27	7.6	509.4	98.70	-	30
12/10/27	7.4	500.0	103.25	-	30
15/10/27	7.7	468.3	92.75	-	30
16/10/27	7.6	468.3	103.95	-	30
17/10/27	7.6	509.4	92.75	-	30
18/10/27	7.6	525.7	97.65	-	30
19/10/27	7.7	500.0	103.95	316.0	30
22/10/27	7.8	507.7	103.25	-	30
23/10/27	7.9	496.2	97.65	-	30
24/10/27	7.7	488.6	89.95	-	30
25/10/27	7.8	500.0	97.65	-	30
26/10/27	7.7	517.0	92.75	-	30
29/10/27	7.6	547.0	106.75	-	30
30/10/27	7.6	512.8	103.25	-	30
31/10/27	7.7	547.0	97.65	-	30
01/11/27	7.8	527.6	107.45	-	30
05/11/27	7.7	521.6	99.05	300.0	30
06/11/27	7.6	529.4	103.60	-	30
07/11/27	7.7	509.8	101.85	-	30
08/11/27	8.1	505.9	100.00	-	30
เฉลี่ย	7.6	514.5	97.02	305.0	30



## ตารางที่ 3 ( ต่อ )

RUN NO. : 3  
 TYPE : AERATION TANK

DATE	TEMP	DO	pH	ORP	SS	V <sub>30</sub>	SVI	HRT	SRT
10/09/27	27	6.0	8.5	+130	980	1000	1021	8	20
11/09/27	27	6.0	8.5	+150	1270	1000	787	8	20
12/09/27	27	6.0	8.1	+110	1200	1000	833	8	20
13/09/27	27	6.0	7.8	+130	1260	980	778	8	20
17/09/27	28	6.0	7.9	+100	1370	980	715	8	20
18/09/27	28	6.0	7.4	+ 80	1450	890	613	8	20
19/09/27	28	6.0	7.6	+ 90	1750	850	486	8	20
20/09/27	28	6.0	7.9	+130	1850	850	460	8	20
21/09/27	29	6.2	8.1	+100	1750	850	486	8	20
24/09/27	27	6.2	7.6	+100	1290	880	682	8	20
25/09/27	27	6.2	7.4	+100	2010	880	438	8	20
26/09/27	28	6.0	7.6	+110	2700	900	333	8	20
27/09/27	28	6.0	7.6	+100	2860	900	315	8	20
08/10/27	27	6.3	7.3	+120	2000	1000	500	8	20
09/10/27	28	6.1	7.5	+ 90	2010	1000	498	8	20
10/10/27	28	6.2	7.8	+ 60	2540	1000	394	8	20
11/10/27	27	6.3	7.4	+120	2660	1000	376	8	20
12/10/27	28	6.0	7.5	+110	2450	1000	408	8	20
15/10/27	27	5.9	7.4	+140	1890	890	471	8	20
16/10/27	28	5.5	7.4	+120	1770	900	508	8	20
17/10/27	28	5.8	7.4	+100	1960	900	459	8	20
18/10/27	29	5.1	7.5	+110	2110	880	417	8	20
19/10/27	28	6.0	7.5	+110	2550	890	349	8	20
22/10/27	28	5.8	7.7	+120	3800	890	234	8	20
23/10/27	28	5.9	7.7	+130	2700	990	367	8	20
24/10/27	28	6.0	7.6	+130	2680	980	366	8	20
25/10/27	28	6.0	7.6	+110	2810	980	349	8	20
26/10/27	29	6.1	7.5	+120	2940	990	337	8	20
29/10/27	28	6.3	7.5	+120	4520	1000	221	8	20
30/10/27	28	6.4	7.5	+120	3860	1000	259	8	20
31/10/27	28	6.3	7.6	+120	3440	1000	291	8	20
01/11/27	28	6.5	7.5	+120	3450	1000	290	8	20
05/11/27	28	6.1	7.1	+240	3280	1000	305	8	20
06/11/27	28	6.2	7.2	+240	3140	1000	318	8	20
07/11/27	28	6.0	7.4	+150	2960	1000	338	8	20
08/11/27	28	6.0	7.3	+160	3100	1000	323	8	20
เฉลี่ย	28	6.0	7.6	+122	2399	951	454	8	20





ตารางที่ 3 ( ต่อ )

RUN NO. : 3  
TYPE : AERATION TANK ( CONTINUE )

DATE	FCOD	TKN	NH <sub>3</sub>	ORGN	NO <sub>3</sub>	NO <sub>2</sub>	TN	TPO <sub>4</sub>	ALK
10/09/27	63.7	124.30	119.00	5.25	00.0	0.0	124.30		-
11/09/27	37.5	86.10	78.40	7.70	00.0	0.0	86.10		-
12/09/27	41.2	63.70	56.70	7.00	00.0	0.1	63.80		-
13/09/27	52.2	63.70	58.10	5.60	00.0	0.3	64.00		-
17/09/27	52.2	63.40	36.75	26.65	00.0	0.3	63.70		-
18/09/27	41.2	63.40	36.75	26.56	00.0	0.1	63.50		-
19/09/27	31.6	49.00	44.45	4.55	00.0	1.2	50.20		-
20/09/27	47.4	28.70	25.90	2.80	00.0	1.8	30.50		-
21/09/27	47.4	15.05	10.50	4.55	00.0	1.6	16.65		310
24/09/27	136.7	84.00	79.45	4.55	00.0	4.8	88.80		-
25/09/27	136.7	63.00	56.70	6.30	4.0	10.5	77.50		-
26/09/27	100.8	25.20	23.80	1.40	0.0	7.5	32.70		-
27/09/27	87.0	8.05	7.70	0.35	80.0	2.0	90.05		-
08/10/27	18.9	11.55	7.00	4.55	85.0	1.0	97.55		-
09/10/27	39.7	5.60	2.45	3.15	75.0	2.0	82.60		-
10/10/27	18.9	8.75	0.70	8.05	70.0	2.0	80.75		-
11/10/27	18.9	8.75	0.40	7.35	85.0	1.0	94.75		-
12/10/27	18.9	8.75	2.45	6.30	70.0	1.0	79.75		-
15/10/27	39.7	17.15	2.10	15.05	85.0	8.0	110.15		-
16/10/27	39.7	12.25	1.05	11.20	60.0	4.0	76.25		-
17/10/27	39.7	17.15	1.05	16.10	65.0	5.0	87.15		-
18/10/27	18.9	17.85	2.10	15.75	65.0	3.0	85.85		-
19/10/27	18.9	17.15	1.05	16.10	60.0	3.0	80.15		-
22/10/27	57.7	33.25	3.50	29.75	70.0	24.0	127.25		-
23/10/27	38.2	22.05	3.50	18.55	70.0	24.0	116.05		186
24/10/27	42.0	20.65	1.75	18.90	56.0	2.0	78.65		-
25/10/27	38.2	22.05	1.75	20.30	56.0	3.0	81.05		-
26/10/27	30.2	22.05	3.50	18.55	56.0	4.0	88.05		-
29/10/27	0.0	6.30	0.35	5.95	125.0	0.1	131.35		-
30/10/27	0.0	6.30	0.70	5.60	130.0	0.1	136.40		-
31/10/27	0.0	6.30	0.35	5.95	130.0	0.1	136.40		-
01/11/27	19.7	7.00	0.00	7.00	135.0	0.1	142.10		-
05/11/27	15.7	2.80	0.00	2.80	122.0	0.1	124.81		-
06/11/27	15.7	3.50	0.70	2.80	106.0	0.0	109.50		-
07/11/27	11.7	2.45	0.00	2.45	120.0	0.0	122.45		-
08/11/27	15.7	-	-	-	100.0	0.0	-		-
เฉลี่ย	39.8	29.10	19.16	9.87	57.8	3.3	89.17		248



ตารางที่ 3 ( ต่อ )

RUN NO. : 3  
TYPE : ANOXIC TANK

DATE	TEMP	DO	pH	ORP	SS	V <sub>30</sub>	SVI	HRT	SRT
10/09/27	27	0.5	8.0	+110	1240	1000	806.0	24	20
11/09/27	27	0.5	8.2	+120	1740	1000	575.0	24	20
12/09/27	27	0.5	8.0	+150	-	1000	-	24	20
13/09/27	27	0.5	8.0	+150	1360	980	720.0	24	20
17/09/27	28	0.5	8.0	+120	1250	980	784.0	24	20
18/09/27	28	0.5	7.6	+100	1480	980	662.0	24	20
19/09/27	28	0.5	7.9	+100	1400	850	607.0	24	20
20/09/27	28	0.5	8.0	+120	1450	850	586.0	24	20
21/09/27	29	0.5	8.0	+ 80	1480	850	574.0	24	20
24/09/27	27	0.5	7.4	+ 80	1480	890	601.0	24	20
25/09/27	27	0.5	7.5	+ 70	1520	890	585.0	24	20
26/09/27	28	0.5	7.8	+ 80	2660	900	338.0	24	20
27/09/27	28	0.5	7.8	+ 80	2740	900	328.0	24	20
08/10/27	27	0.5	7.4	+100	1980	1000	505.0	24	20
09/10/27	28	0.5	7.6	+110	2100	1000	476.0	24	20
10/10/27	28	0.5	7.5	+ 90	2070	1000	483.0	24	20
11/10/27	27	0.5	7.4	+110	2170	1000	461.0	24	20
12/10/27	28	0.5	7.5	+110	2100	1000	476.0	24	20
15/10/27	27	0.5	7.3	+150	1790	890	497.0	24	20
16/10/27	28	0.5	7.4	+120	1890	880	466.0	24	20
17/10/27	28	0.5	7.5	+110	1980	900	455.0	24	20
18/10/27	29	0.5	7.4	+110	2010	890	443.0	24	20
19/10/27	28	0.5	7.6	+120	2400	900	375.0	24	20
22/10/27	28	0.5	7.9	+140	2780	900	324.0	24	20
23/10/27	28	0.5	7.9	+140	2770	980	354.0	24	20
24/10/27	28	0.5	7.6	+110	2780	980	353.0	24	20
25/10/27	28	0.5	7.7	+120	2820	980	348.0	24	20
26/10/27	29	0.5	7.6	+130	3370	990	294.0	24	20
29/10/27	28	0.5	7.7	+120	1970	1000	508.0	24	20
30/10/27	28	0.5	7.7	+110	2560	1000	391.0	24	20
31/10/27	28	0.5	7.7	+120	2150	1000	465.0	24	20
01/11/27	28	0.5	7.7	+130	2610	1000	383.0	24	20
05/11/27	28	0.5	7.0	+230	2600	1000	385.0	24	20
06/11/27	28	0.5	7.1	+230	2670	1000	375.0	24	20
07/11/27	28	0.5	7.2	+140	2650	1000	377.0	24	20
08/11/27	28	0.5	7.2	+150	2660	1000	376.0	24	20
เฉลี่ย	28	0.5	7.3	+121	2134	954	478.0	24	20

ตารางที่ 3 ( ต่อ )

RUN NO. : 3  
TYPE : ANOXIC TANK ( CONTINUE )

DATE	FCOD	TKN	NH <sub>3</sub>	ORGN	NO <sub>3</sub>	NO <sub>2</sub>	TN	TPO <sub>4</sub>	ALK
10/09/27	59.9	149.80	147.00	2.80	0.0	0.00	149.80	-	-
11/09/27	63.7	101.50	92.40	9.10	0.0	0.00	101.50	-	-
12/09/27	59.9	70.00	70.00	0.00	0.0	0.00	70.00	-	-
13/09/27	56.0	63.40	61.60	1.60	0.0	0.00	63.40	-	-
17/09/27	56.0	50.75	36.75	14.00	0.0	0.00	50.75	-	-
18/09/27	39.5	50.75	36.75	14.00	0.0	0.00	50.75	-	-
19/09/27	39.5	50.75	36.75	14.00	0.0	0.80	51.55	-	-
20/09/27	43.5	35.70	30.80	4.90	0.0	1.50	37.20	-	-
21/09/27	47.4	-	10.50	-	0.0	2.00	-	-	315
24/09/27	136.7	84.00	79.45	4.55	0.0	2.00	84.00	-	-
25/09/27	140.6	81.20	79.45	1.75	0.0	10.80	92.00	-	-
26/09/27	108.5	28.00	26.95	1.05	0.0	4.80	32.80	-	-
27/09/27	102.8	8.05	6.30	1.75	0.0	2.00	10.05	-	-
08/10/27	18.9	8.75	4.55	4.20	80.0	4.00	92.75	-	-
09/10/27	39.7	11.55	4.55	7.00	70.0	4.00	85.55	-	-
10/10/27	18.9	5.60	2.45	3.15	65.0	7.00	77.60	-	-
11/10/27	7.5	-	6.30	-	70.0	4.00	-	-	-
12/10/27	7.5	5.60	2.45	3.15	65.0	4.00	74.60	-	-
15/10/27	39.7	17.85	8.75	9.10	85.0	15.00	117.85	-	-
16/10/27	39.7	11.55	4.55	7.00	70.0	0.50	82.05	-	-
17/10/27	18.9	5.60	3.15	2.45	65.0	7.00	77.60	-	-
18/10/27	18.9	17.85	4.55	13.30	65.0	4.00	86.85	-	-
19/10/27	39.7	11.55	4.55	7.00	70.0	1.00	82.55	-	-
22/10/27	53.9	22.05	22.05	0.00	70.0	25.00	117.05	-	-
23/10/27	19.1	22.75	12.25	10.50	70.0	25.00	117.75	-	227
24/10/27	30.5	19.60	12.25	7.35	60.0	1.00	80.60	-	-
25/10/27	18.9	11.55	4.55	7.00	60.0	2.00	73.55	-	-
26/10/27	26.4	22.75	12.25	10.50	60.0	2.00	84.75	-	-
29/10/27	0.0	3.50	3.15	0.35	130.0	0.20	133.70	-	-
30/10/27	0.0	3.50	2.45	1.05	120.0	0.30	123.80	-	-
31/10/27	0.0	3.50	2.45	1.05	120.0	0.20	123.70	-	-
01/11/27	19.7	7.00	4.55	2.45	115.0	0.30	122.30	-	-
05/11/27	15.7	2.45	0.35	2.10	120.0	0.03	122.48	-	-
06/11/27	15.7	2.45	0.00	2.45	138.0	2.90	143.35	-	-
07/11/27	11.7	2.45	0.70	1.75	100.0	0.20	102.65	-	-
08/11/27	15.7	-	-	-	98.0	0.20	-	-	-
เฉลี่ย	39.8	30.10	23.93	5.23	54.6	3.74	88.40	-	271



ตารางที่ 3 (ต่อ)

RUN NO. : 3  
TYPE : EFFLUENT

DATE	SS	TCOD	FLOW
10/09/27	100.0	116.1	30
11/09/27	140.0	232.2	30
12/09/27	80.0	93.3	30
13/09/27	32.0	93.3	30
17/09/27	140.0	57.7	30
18/09/27	100.0	41.2	30
19/09/27	21.4	47.4	30
20/09/27	10.0	39.5	30
21/09/27	10.0	43.5	30
24/09/27	52.0	140.6	30
25/09/27	45.0	140.6	30
26/09/27	30.0	139.5	30
27/09/27	13.0	110.7	30
08/10/27	..	7.5	30
09/10/27	..	18.9	30
10/10/27	..	18.9	30
11/10/27	..	0.0	30
12/10/27	..	0.0	30
15/10/27	..	47.6	30
16/10/27	..	18.9	30
17/10/27	..	7.5	30
18/10/27	..	7.5	30
19/10/27	..	7.5	30
22/10/27	20.0	96.2	30
23/10/27	10.0	53.4	30
24/10/27	10.0	72.5	30
25/10/27	10.0	38.2	30
26/10/27	10.0	45.3	30
29/10/27	..	0.0	30
30/10/27	..	0.0	30
31/10/27	..	0.0	30
01/11/27	..	106.3	30
05/11/27	..	11.8	30
06/11/27	..	11.8	30
07/11/27	..	11.7	30
08/11/27	..	11.7	30
เฉลี่ย		52.6	30

หมายเหตุ .. ไม่สามารถทำการวัดผลได้ เนื่องจากน้ำทิ้งมีลักษณะใสมาก

## ประวัติผู้เขียน

ชื่อ นางสาวทัศนีย์ แซ่เตีย  
 เกิด 20 พฤษภาคม 2501 อำเภอเมือง จังหวัดนครราชสีมา  
 การศึกษา วิศวกรรมศาสตรบัณฑิต (โยธา) มหาวิทยาลัยขอนแก่น  
 ปีการศึกษา 2523  
 ที่ทำงาน การประปาส่วนภูมิภาค หลักสี่ บางเขน กรุงเทพมหานคร  
 ที่อยู่ปัจจุบัน 17 ซอยประชาอุทิศ สามเสนใน พญาไท กทม.



ศูนย์วิทยทรัพยากร  
 จุฬาลงกรณ์มหาวิทยาลัย