

## Lampiran 4. Data *Running* Reaktor

### 1.1 Data Kadar COD *Running* Reaktor

Senin, 16 Juli 2018	Data		Absorbansi		X	Kadar COD	RPD (%)	% Removal
	Influen	Sampel 1	0,097	A	627,3	902	9	
	Sampel 2	0,114	A	550,0				
Sponge 1	Sampel 1	0,078	A	713,6	1043	5	-16	
	Sampel 2	0,090	A	659,1				
Sponge 2	Sampel 1	0,152	A	377,3	573	2	37	
	Sampel 2	0,149	A	390,9				

Selasa, 17 Juli 2018	Data		Absorbansi		X	Kadar COD	RPD (%)	% Removal
	Influen	Sampel 1	0,067	A	763,6	1118	5	
	Sampel 2	0,079	A	709,1				
Sponge 1	Sampel 1	0,109	A	572,7	889	7	21	
	Sampel 2	0,096	A	631,8				
Sponge 2	Sampel 1	0,093	A	645,5	973	1	13	
	Sampel 2	0,091	A	654,5				

Rabu, 18 Juli 2018	Data		Absorbansi		X	Kadar COD	RPD (%)	% Removal
	Influen	Sampel 1	0,062	A	786,4	1173	1	
	Sampel 2	0,065	A	772,7				
Sponge 1	Sampel 1	0,091	A	654,5	989	1	16	
	Sampel 2	0,088	A	668,2				
Sponge 2	Sampel 1	0,123	A	509,1	777	4	34	
	Sampel 2	0,117	A	536,4				

Kamis, 19 Juli 2018	Data		Absorbansi		X	Kadar COD	RPD (%)	% Removal
	Influen	Sampel 1	0,085	A	681,8	1000	5	
	Sampel 2	0,095	A	636,4				
Sponge 1	Sampel 1	0,123	A	509,1	770	2	23	
	Sampel 2	0,120	A	522,7				
Sponge 2	Sampel 1	0,114	A	550,0	830	1	17	
	Sampel 2	0,112	A	559,1				

	Data		Absorbansi		X	Kadar COD	RPD (%)	% Removal
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Jumat, 20 Juli 2018	Influen	Sampel 1	0,102	A	604,5	898	2	
		Sampel 2	0,106	A	586,4			
	Sponge 1	Sampel 1	0,104	A	595,5	859	8	4
		Sampel 2	0,119	A	527,3			
	Sponge 2	Sampel 1	0,115	A	545,5	811	2	10
		Sampel 2	0,118	A	531,8			

Sabtu, 21 Juli 2018	Data		Absorbansi		X	Kadar COD	RPD (%)	% Removal
	Influen	Sampel 1	0,037	A	900,0	1345	1	
	Sampel 2	0,039	A	890,9				
Sponge 1	Sampel 1	0,053	A	827,3	1234	1	8	
	Sampel 2	0,056	A	813,6				
Sponge 2	Sampel 1	0,045	A	863,6	1270	4	6	
	Sampel 2	0,056	A	813,6				

Senin, 23 Juli 2018	Data		Absorbansi		X	Kadar COD	RPD (%)	% Removal
	Influen	Sampel 1	0,051	A	836,4	1241	2	
	Sampel 2	0,057	A	809,1				
Sponge 1	Sampel 1	0,061	A	790,9	1168	3	6	
	Sampel 2	0,069	A	754,5				
Sponge 2	Sampel 1	0,084	A	686,4	980	10	21	
	Sampel 2	0,106	A	586,4				

Selasa, 24 Juli 2018	Data		Absorbansi		X	Kadar COD	RPD (%)	% Removal
	Influen	Sampel 1	0,096	A	631,8	950	0	
	Sampel 2	0,095	A	636,4				
Sponge 1	Sampel 1	0,116	A	540,9	800	3	16	
	Sampel 2	0,121	A	518,2				
Sponge 2	Sampel 1	0,119	A	527,3	784	2	17	
	Sampel 2	0,122	A	513,6				

Rabu, 25 Juli 2018	Data		Absorbansi		X	Kadar COD	RPD (%)	% Removal
	Influen	Sampel 1	0,049	A	845,5	1261	1	
	Sampel 2	0,052	A	831,8				
Sponge 1	Sampel 1	0,075	A	727,3	1105	2	12	
	Sampel 2	0,069	A	754,5				
Sponge 2	Sampel 1	0,085	A	681,8	1016	1	19	
	Sampel 2	0,088	A	668,2				

	Data		Absorbansi		X	Kadar COD	RPD (%)	% Removal
	Kamis, 26 Juli 2018	Influen	Sampel 1	0,040	A	886,4	1316	2
		Sampel 2	0,046	A	859,1			
Sponge 1		Sampel 1	0,048	A	850,0	1255	3	5
		Sampel 2	0,057	A	809,1			
Sponge 2		Sampel 1	0,065	A	772,7	1180	3	10
		Sampel 2	0,056	A	813,6			

	Data		Absorbansi		X	Kadar COD	RPD (%)	% Removal
	Jumat, 27 Juli 2018	Influen	Sampel 1	0,055	A	818,2	1198	5
		Sampel 2	0,068	A	759,1			
Sponge 1		Sampel 1	0,133	A	463,6	711	4	41
		Sampel 2	0,126	A	495,5			
Sponge 2		Sampel 1	0,093	A	645,5	993	5	17
		Sampel 2	0,082	A	695,5			

	Data		Absorbansi		X	Kadar COD	RPD (%)	% Removal
	Sabtu, 28 Juli 2018	Influen	Sampel 1	0,046	A	859,1	1305	2
		Sampel 2	0,039	A	890,9			
Sponge 1		Sampel 1	0,058	A	804,5	1202	1	8
		Sampel 2	0,060	A	795,5			
Sponge 2		Sampel 1	0,088	A	668,2	968	7	26
		Sampel 2	0,103	A	600,0			

## 1.2 Data Kadar TSS *Running Reactor*

### a) Perhitungan Kadar TSS

$$\text{mg TSS per liter} = \frac{(A-B) \times 1000}{\text{Volume contoh uji, mL}}$$

Contoh Perhitungan:

$$\text{Mg TSS per Liter} = \frac{(1092 - 1057) \times 1000}{100 \text{ mL}} = 349 \text{ mg/L}$$

### b) %Removal

$$\%Removal = \frac{Ci-Co}{Ci} \times 100$$

	Data		Awal (mg)	Akhir (mg)	TSS (mg/L)	Kadar TSS (mg/L)	RPD (%)	% Removal
	Senin, 16 Juli 2018	Influen	Sampel 1	1057	1092	349	342	4
		Sampel 2	1069	1102	334			
Sponge 1		Sampel 1	1080	1111	313	306	5	11
		Sampel 2	1064	1094	298			
Sponge 2		Sampel 1	1081	1113	321	315	4	8
		Sampel 2	1075	1106	309			

	Data		Awal (mg)	Akhir (mg)	TSS (mg/L)	Kadar TSS (mg/L)	RPD (%)	% Removal
	Selasa, 17 Juli 2018	Influen	Sampel 1	1202	1222	204	208	4
		Sampel 2	1205	1227	213			
Sponge 1		Sampel 1	1230	1247	171	174	3	17
		Sampel 2	1201	1218	176			
Sponge 2		Sampel 1	1202,9	1221	185	185	0	11
		Sampel 2	1207	1225,7	185			

	Data		Awal (mg)	Akhir (mg)	TSS (mg/L)	Kadar TSS (mg/L)	RPD (%)	% Removal
	Rabu, 18 Juli 2018	Influen	Sampel 1	1068	1088	199	204	5
		Sampel 2	1061	1082	209			
Sponge 1		Sampel 1	1072	1090	184	179	5	12
		Sampel 2	1072	1089	175			

	Sponge 2	Sampel 1	1066,7	1083	164	163	2	20
		Sampel 2	1077	1093,2	161			

B                  A

	Data		Awal (mg)	Akhir (mg)	TSS (mg/L)	Kadar TSS (mg/L)	RPD (%)	% Removal
	Kamis, 19 Juli 2018	Influen	Sampel 1	1073	1099	259	265	4
		Sampel 2	1091	1118	270			
Sponge 1		Sampel 1	1082	1103	216	222	5	16
		Sampel 2	1086	1109	228			
Sponge 2		Sampel 1	1091,2	1112,3	211	207	4	22
		Sampel 2	1090	1110	202			

	Data		Awal (mg)	Akhir (mg)	TSS (mg/L)	Kadar TSS (mg/L)	RPD (%)	% Removal
	Jumat, 20 Juli 2018	Influen	Sampel 1	1053	1079	255	257	1,6
		Sampel 2	1074	1100	259			
Sponge 1		Sampel 1	1063	1086	231	226	5	12
		Sampel 2	1076	1098	220			
Sponge 2		Sampel 1	1070,9	1092	211	210	1	18
		Sampel 2	1075	1096	208			

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	Data		Awal (mg)	Akhir (mg)	TSS (mg/L)	Kadar TSS (mg/L)	RPD (%)	% Removal
	Senin, 23 Juli 2018	Influen	Sampel 1	1096	1131	356	349	4,3
		Sampel 2	1066	1101	341			
Sponge 1		Sampel 1	1079	1107	277	274	3	22

		Sampel 2	1087	1114	270			
	Sponge 2	Sampel 1	1086,2	1115	288	284	2,8	19
		Sampel 2	1073	1100,8	280			

		B		A					
		Data		Awal (mg)	Akhir (mg)	TSS (mg/L)	Kadar TSS (mg/L)	RPD (%)	% Removal
Selasa, 24 Juli 2018	Influen	Sampel 1	1064	1085	213	218	5		
		Sampel 2	1076	1099	223				
	Sponge 1	Sampel 1	1076	1094	178	181	3	17	
		Sampel 2	1078	1096	184				
	Sponge 2	Sampel 1	1062,1	1080,1	180	176	5	19	
		Sampel 2	1069	1086	172				

		B		A					
		Data		Awal (mg)	Akhir (mg)	TSS (mg/L)	Kadar TSS (mg/L)	RPD (%)	% Removal
Rabu, 25 Juli 2018	Influen	Sampel 1	1043	1062	194	195	1		
		Sampel 2	1060	1080	195				
	Sponge 1	Sampel 1	1067	1083	154	155	1	20	
		Sampel 2	1057	1072	156				
	Sponge 2	Sampel 1	1064,7	1079,8	151	149	3	24	
		Sampel 2	1065	1080	146				

		B		A					
		Data		Awal (mg)	Akhir (mg)	TSS (mg/L)	Kadar TSS (mg/L)	RPD (%)	% Removal
Kamis, 26 Juli 2018	Influen	Sampel 1	1058	1080	217	213	4		
		Sampel 2	1063	1084	209				

	Sponge 1	Sampel 1	1070	1087	176	173	3	19
		Sampel 2	1082	1099	171			
	Sponge 2	Sampel 1	1065,4	1082	166	167	1	22
		Sampel 2	1062	1079	167			

B                  A

	Data		Awal (mg)	Akhir (mg)	TSS (mg/L)	Kadar TSS (mg/L)	RPD (%)	% Removal
	Jumat, 27 Juli 2018	Influen	Sampel 1	1248	1279	316	319	2
		Sampel 2	1259	1291	322			
Sponge 1		Sampel 1	1263,2	1288	250	255	4	20
		Sampel 2	1246	1272,4	260			
Sponge 2		Sampel 1	1253	1277	240	241	0	25
		Sampel 2	1257	1282	241			

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	Data		Awal (mg)	Akhir (mg)	TSS (mg/L)	Kadar TSS (mg/L)	RPD (%)	% Removal
	Sabtu, 28 Juli 2018	Influen	Sampel 1	1062	1081	190	192	2
		Sampel 2	1063	1082	193			
Sponge 1		Sampel 1	1073	1086	134	132	3	31
		Sampel 2	1079	1092	130			
Sponge 2		Sampel 1	1081,2	1092	109	110	2	43
		Sampel 2	1081	1092,2	111			

