

Table K.1. Cd column profile DO concentration.
day 267

port	DO (mg/L)
1	16.4
2	8.6
3	7.2
4	5.6
5	4.6
6	3.8

Table K.2. Cd column OUR data.

Cd Conc (ppm)	OUR	OUR/OU R ₀ (%)
0	-0.0113	0
5	-0.0098	13.2743
10	-0.0092	18.5841
25	-0.0073	35.3982

Table K.2a. Cd column DO and normalized DO for OUR experiments.

Time (min)	Control DO	Normalized Control DO	5 ppm DO	5 ppm Normalized DO	Time (min)	10ppm DO	10 ppm Normalized DO	25 ppm DO	25 ppm Normalized DO	Time (min)	Control DO	Normalized Control DO	50 ppm DO	50 ppm Normalized DO
0	7.797	1	7.936	1	0	5.836		6.147			7.627		8.111	
0.101	7.779	0.9977	7.93	0.9992	0.101	5.839		6.15		0	7.652		8.111	
0.2	7.777	0.9974	7.92	0.998	0.2	5.831		6.153		0.1	7.679		8.11	
0.301	7.791	0.9992	7.91	0.9967	0.3	5.834		6.157		0.2	7.682	1	8.11	
0.401	7.762	0.9955	7.9	0.9955	0.401	6.534		6.155		0.3	7.681	0.99987	8.1	
0.501	7.748	0.9937	7.888	0.994	0.501	6.877		6.153		0.401	7.642	0.99479	8.045	
0.601	7.758	0.995	7.881	0.9931	0.601	7.358		6.15		0.501	7.65	0.99583	7.98	
0.701	7.748	0.9937	7.863	0.9908	0.701	7.498		6.14		0.601	7.63	0.99323	7.865	
0.802	7.74	0.9927	7.853	0.9895	0.801	7.583		6.135		0.701	7.635	0.99388	7.888	
0.902	7.738	0.9924	7.844	0.9884	0.902	7.62		6.135		0.801	7.645	0.99518	7.893	
1.002	7.735	0.992	7.836	0.9874	1.002	7.63		6.921		0.902	7.622	0.99219	7.92	
1.102	7.733	0.9918	7.827	0.9863	1.102	7.642		7.582		1.002	7.588	0.98776	7.917	
1.202	7.711	0.989	7.814	0.9846	1.202	7.644		7.79		1.101	7.601	0.98946	7.888	
1.303	7.713	0.9892	7.802	0.9831	1.302	7.649		7.794		1.202	7.574	0.98594	7.87	
1.403	7.684	0.9855	7.787	0.9812	1.403	7.65	1	7.88		1.302	7.571	0.98555	7.907	1
1.502	7.687	0.9859	7.782	0.9806	1.502	7.644	0.99922	7.907		1.403	7.542	0.98178	7.903	0.9995
1.603	7.686	0.9858	7.773	0.9795	1.603	7.633	0.99778	7.939		1.502	7.539	0.98139	7.887	0.9975
1.703	7.677	0.9846	7.761	0.9779	1.703	7.645	0.99935	7.952		1.602	7.518	0.97865	7.858	0.9938
1.803	7.659	0.9823	7.753	0.9769	1.803	7.642	0.99895	7.936		1.703	7.522	0.97917	7.868	0.9951
1.903	7.652	0.9814	7.741	0.9754	1.903	7.625	0.99673	7.932		1.803	7.507	0.97722	7.854	0.9933
2.003	7.649	0.981	7.729	0.9739	2.003	7.627	0.99699	7.946		1.903	7.498	0.97605	7.861	0.9942
2.104	7.65	0.9811	7.721	0.9729	2.104	7.615	0.99542	7.927		2.003	7.493	0.9754	7.844	0.992
2.204	7.622	0.9776	7.709	0.9714	2.204	7.608	0.99451	7.949	1	2.103	7.485	0.97436	7.832	0.9905
2.303	7.615	0.9767	7.697	0.9699	2.304	7.606	0.99425	7.936	0.9984	2.204	7.471	0.97253	7.839	0.9914
2.404	7.608	0.9758	7.69	0.969	2.404	7.596	0.99294	7.92	0.9964	2.303	7.474	0.97292	7.814	0.9882
2.504	7.598	0.9745	7.677	0.9674	2.504	7.588	0.9919	7.903	0.9942	2.404	7.461	0.97123	7.821	0.9891
2.605	7.589	0.9733	7.67	0.9665	2.605	7.586	0.99163	7.903	0.9942	2.504	7.436	0.96798	7.81	0.9877

Table K.2a. Cd column DO and normalized DO for OUR experiments.

Time (min)	Control DO	Normalized Control	5 ppm DO	5 ppm Normalized	Time (min)	10ppm DO	10 ppm Cd Normalized	25 ppm DO	25 ppm Cd Normalized	Time (min)	Control DO	Normalized Control	50 ppm DO	50 ppm Normalized
2.704	7.567	0.9705	7.657	0.9648	2.704	7.571	0.98967	7.914	0.9956	2.605	7.436	0.96798	7.77	0.9827
2.805	7.571	0.971	7.647	0.9636	2.805	7.571	0.98967	7.878	0.9911	2.704	7.42	0.96589	7.763	0.9818
2.905	7.549	0.9682	7.636	0.9622	2.905	7.566	0.98902	7.881	0.9914	2.804	7.409	0.96446	7.763	0.9818
3.004	7.552	0.9686	7.626	0.9609	3.004	7.569	0.98941	7.849	0.9874	2.905	7.403	0.96368	7.731	0.9777
3.105	7.53	0.9658	7.618	0.9599	3.105	7.554	0.98745	7.841	0.9864	3.004	7.378	0.96043	7.751	0.9803
3.205	7.515	0.9638	7.604	0.9582	3.205	7.545	0.98627	7.827	0.9847	3.105	7.385	0.96134	7.743	0.9793
3.306	7.512	0.9634	7.594	0.9569	3.306	7.539	0.98549	7.838	0.986	3.205	7.354	0.9573	7.723	0.9767
3.405	7.513	0.9636	7.586	0.9559	3.405	7.544	0.98614	7.846	0.987	3.305	7.334	0.9547	7.701	0.9739
3.505	7.498	0.9617	7.576	0.9546	3.505	7.52	0.98301	7.824	0.9843	3.405	7.329	0.95405	7.711	0.9752
3.606	7.485	0.96	7.569	0.9538	3.606	7.52	0.98301	7.814	0.983	3.505	7.321	0.95301	7.699	0.9737
3.706	7.491	0.9608	7.555	0.952	3.706	7.517	0.98261	7.799	0.9811	3.606	7.304	0.95079	7.701	0.9739
3.806	7.466	0.9575	7.547	0.951	3.806	7.517	0.98261	7.812	0.9828	3.706	7.285	0.94832	7.675	0.9707
3.906	7.461	0.9569	7.537	0.9497	3.906	7.503	0.98078	7.794	0.9805	3.806	7.278	0.94741	7.665	0.9694
4.006	7.451	0.9556	7.523	0.948	4.006	7.485	0.97843	7.77	0.9775	3.906	7.27	0.94637	7.658	0.9685
4.107	7.441	0.9543	7.515	0.947	4.107	7.485	0.97843	7.758	0.976	4.006	7.251	0.94389	7.648	0.9672
4.207	7.442	0.9545	7.506	0.9458	4.207	7.466	0.97595	7.755	0.9756	4.107	7.24	0.94246	7.633	0.9653
4.307	7.415	0.951	7.494	0.9443	4.306	7.468	0.97621	7.751	0.9751	4.207	7.26	0.94507	7.619	0.9636
4.407	7.417	0.9513	7.486	0.9433	4.407	7.468	0.97621	7.756	0.9757	4.307	7.229	0.94103	7.613	0.9628
4.507	7.417	0.9513	7.476	0.942	4.507	7.456	0.97464	7.753	0.9753	4.407	7.223	0.94025	7.581	0.9588
4.607	7.388	0.9475	7.464	0.9405	4.607	7.464	0.97569	7.755	0.9756	4.507	7.191	0.93608	7.591	0.96
4.707	7.39	0.9478	7.457	0.9396	4.707	7.441	0.97268	7.721	0.9713	4.607	7.187	0.93556	7.596	0.9607
4.808	7.38	0.9465	7.447	0.9384	4.807	7.429	0.97111	7.69	0.9674	4.707	7.163	0.93244	7.582	0.9589
4.908	7.37	0.9452	7.437	0.9371	4.908	7.424	0.97046	7.702	0.9689	4.808	7.148	0.93049	7.564	0.9566
5.008	7.365	0.9446	7.427	0.9359	5.008	7.419	0.9698	7.718	0.9709	4.908	7.13	0.92814	7.554	0.9554
5.108	7.354	0.9432	7.415	0.9343	5.108	7.41	0.96863	7.694	0.9679	5.008	7.121	0.92697	7.513	0.9502
5.208	7.346	0.9422	7.408	0.9335	5.208	7.405	0.96797	7.699	0.9685	5.108	7.133	0.92853	7.527	0.9519
5.309	7.348	0.9424	7.398	0.9322	5.308	7.405	0.96797	7.685	0.9668	5.208	7.104	0.92476	7.538	0.9533
5.408	7.332	0.9404	7.388	0.9309	5.408	7.397	0.96693	7.685	0.9668	5.309	7.103	0.92463	7.521	0.9512
5.508	7.322	0.9391	7.379	0.9298	5.508	7.385	0.96536	7.682	0.9664	5.408	7.072	0.92059	7.503	0.9489
5.609	7.316	0.9383	7.369	0.9286	5.609	7.393	0.96641	7.66	0.9636	5.508	7.067	0.91994	7.496	0.948
5.709	7.311	0.9377	7.363	0.9278	5.709	7.371	0.96353	7.648	0.9621	5.609	7.047	0.91734	7.489	0.9471

Table K.2a. Cd column DO and normalized DO for OUR experiments.

Time (min)	Control DO	Normalized Control	5 ppm DO	5 ppm Normalized	Time (min)	10ppm DO	10 ppm Cd Normalized	25 ppm DO	25 ppm Cd Normalized	Time (min)	Control DO	Normalized Control	50 ppm DO	50 ppm Normalized
5.808	7.287	0.9346	7.351	0.9263	5.808	7.37	0.9634	7.663	0.964	5.809	7.054	0.91825	7.464	0.944
5.909	7.282	0.9339	7.342	0.9252	5.909	7.353	0.96118	7.657	0.9633	6.009	7.023	0.91422	7.467	0.9444
6.009	7.272	0.9327	7.332	0.9239	6.009	7.346	0.96026	7.648	0.9621	6.11	7.02	0.91382	7.459	0.9433
6.11	7.26	0.9311	7.32	0.9224	6.11	7.338	0.95922	7.623	0.959	6.209	7.021	0.91395	7.422	0.9387
6.209	7.263	0.9315	7.314	0.9216	6.209	7.336	0.95895	7.608	0.9571	6.31	6.992	0.91018	7.381	0.9335
6.309	7.245	0.9292	7.302	0.9201	6.309	7.324	0.95739	7.606	0.9568	6.41	6.994	0.91044	7.418	0.9382
6.41	7.234	0.9278	7.293	0.919	6.41	7.329	0.95804	7.594	0.9553	6.51	6.968	0.90706	7.423	0.9388
6.51	7.214	0.9252	7.286	0.9181	6.51	7.319	0.95673	7.587	0.9545	6.61	6.943	0.9038	7.388	0.9344
6.61	7.206	0.9242	7.276	0.9168	6.61	7.304	0.95477	7.574	0.9528	6.71	6.948	0.90445	7.371	0.9322
6.71	7.207	0.9243	7.266	0.9156	6.71	7.3	0.95425	7.591	0.955	6.81	6.933	0.9025	7.386	0.9341
6.81	7.197	0.923	7.258	0.9146	6.81	7.28	0.95163	7.586	0.9543	6.911	6.933	0.9025	7.383	0.9337
6.911	7.179	0.9207	7.246	0.9131	6.911	7.282	0.9519	7.555	0.9504	7.01	6.906	0.89898	7.341	0.9284
7.01	7.175	0.9202	7.236	0.9118	7.01	7.282	0.9519	7.555	0.9504	7.111	6.897	0.89781	7.325	0.9264
7.11	7.175	0.9202	7.229	0.9109	7.111	7.262	0.94928	7.532	0.9475	7.211	6.894	0.89742	7.339	0.9282
7.211	7.16	0.9183	7.222	0.91	7.211	7.253	0.9481	7.543	0.9489	7.311	6.882	0.89586	7.33	0.927
7.311	7.148	0.9168	7.212	0.9088	7.311	7.248	0.94745	7.537	0.9482	7.411	6.877	0.89521	7.317	0.9254
7.411	7.136	0.9152	7.199	0.9071	7.411	7.243	0.9468	7.527	0.9469	7.511	6.843	0.89078	7.314	0.925
7.511	7.13	0.9145	7.194	0.9065	7.511	7.238	0.94614	7.508	0.9445	7.612	6.831	0.88922	7.322	0.926
7.611	7.108	0.9116	7.183	0.9051	7.612	7.238	0.94614	7.471	0.9399	7.712	6.835	0.88974	7.308	0.9242
7.712	7.118	0.9129	7.175	0.9041	7.712	7.221	0.94392	7.476	0.9405	7.811	6.808	0.88623	7.292	0.9222
7.811	7.091	0.9095	7.166	0.903	7.811	7.214	0.94301	7.476	0.9405	7.912	6.821	0.88792	7.276	0.9202
7.912	7.087	0.9089	7.155	0.9016	7.912	7.209	0.94235	7.467	0.9394	8.012	6.791	0.88401	7.281	0.9208
8.012	7.081	0.9082	7.15	0.901	8.012	7.197	0.94078	7.479	0.9409	8.113	6.76	0.87998	7.275	0.9201
8.112	7.072	0.907	7.139	0.8996	8.113	7.185	0.93922	7.467	0.9394	8.212	6.762	0.88024	7.246	0.9164
8.212	7.069	0.9066	7.128	0.8982	8.212	7.182	0.93882	7.452	0.9375	8.312	6.764	0.8805	7.226	0.9139
8.312	7.055	0.9048	7.121	0.8973	8.312	7.169	0.93712	7.462	0.9387	8.413	6.755	0.87933	7.229	0.9143
8.413	7.047	0.9038	7.111	0.896	8.413	7.162	0.93621	7.457	0.9381	8.513	6.745	0.87803	7.219	0.913
8.513	7.04	0.9029	7.104	0.8952	8.513	7.157	0.93556	7.447	0.9368	8.613	6.717	0.87438	7.2	0.9106
8.612	7.015	0.8997	7.094	0.8939	8.613	7.152	0.9349	7.442	0.9362	8.713	6.71	0.87347	7.192	0.9096
8.713	7.001	0.8979	7.082	0.8924	8.714	7.138	0.93307	7.395	0.9303	8.613	6.691	0.871	7.185	0.9087

Table K.2a. Cd column DO and normalized DO for OUR experiments.

Time (min)	Control DO	Normalized Control DO	5 ppm DO	5 ppm Normalized DO	Time (min)	10ppm DO	10 ppm Normalized DO	25 ppm DO	25 ppm Normalized DO	Time (min)	Control DO	Normalized Control DO	50 ppm DO	50 ppm Normalized DO
8.813	6.992	0.8968	7.077	0.8918	8.814	7.141	0.93346	7.396	0.9304	8.713	6.674	0.86878	7.161	0.9057
8.913	6.97	0.8939	7.067	0.8905	8.913	7.133	0.93242	7.401	0.9311	8.814	6.671	0.86839	7.17	0.9068
9.013	6.973	0.8943	7.06	0.8896	9.014	7.126	0.9315	7.374	0.9277	8.913	6.661	0.86709	7.165	0.9062
9.114	6.94	0.8901	7.05	0.8884	9.114	7.116	0.9302	7.368	0.9269	9.013	6.644	0.86488	7.148	0.904
9.214	6.936	0.8896	7.041	0.8872	9.215	7.108	0.92915	7.363	0.9263	9.114	6.629	0.86293	7.128	0.9015
9.314	6.923	0.8879	7.035	0.8865	9.314	7.108	0.92915	7.371	0.9273	9.214	6.615	0.8611	7.124	0.901
9.414	6.921	0.8876	7.023	0.885	9.414	7.082	0.92575	7.369	0.927	9.314	6.607	0.86006	7.117	0.9001
9.514	6.923	0.8879	7.013	0.8837	9.515	7.064	0.9234	7.342	0.9236	9.414	6.59	0.85785	7.117	0.9001
9.614	6.914	0.8868	7.008	0.8831	9.615	7.077	0.9251	7.327	0.9218	9.514	6.578	0.85629	7.111	0.8993
9.715	6.892	0.8839	6.998	0.8818	9.715	7.074	0.92471	7.312	0.9199	9.615	6.586	0.85733	7.097	0.8976
9.814	6.899	0.8848	6.993	0.8812	9.815	7.062	0.92314	7.31	0.9196	9.715	6.568	0.85499	7.082	0.8957
9.915	6.894	0.8842	6.983	0.8799	9.916	7.054	0.92209	7.31	0.9196	9.814	6.544	0.85186	7.095	0.8973
10.015	6.899	0.8848	6.978	0.8793	10.016	7.054	0.92209	7.302	0.9186	9.915	6.536	0.85082	7.094	0.8972
10.115	6.884	0.8829	6.971	0.8784	10.116	7.038	0.92	7.3	0.9184	10.015	6.522	0.849	7.053	0.892
10.215	6.865	0.8805	6.961	0.8771	10.216	7.037	0.91987	7.307	0.9192	10.116	6.509	0.84731	7.043	0.8907
10.315	6.865	0.8805	6.954	0.8763	10.316	7.027	0.91856	7.275	0.9152	10.215	6.512	0.8477	7.048	0.8914
10.416	6.85	0.8785	6.946	0.8753	10.417	7.016	0.91712	7.278	0.9156	10.316	6.487	0.84444	7.04	0.8904
10.516	6.845	0.8779	6.936	0.874	10.517	7.01	0.91634	7.278	0.9156	10.416	6.468	0.84197	7.009	0.8864
10.615	6.85	0.8785	6.931	0.8734	10.616	7.001	0.91516	7.263	0.9137	10.516	6.446	0.8391	7.009	0.8864
10.716	6.837	0.8769	6.922	0.8722	10.717	7.006	0.91582	7.239	0.9107	10.616	6.419	0.83559	7.002	0.8855
10.816	6.82	0.8747	6.914	0.8712	10.817	6.995	0.91438	7.246	0.9116	10.716	6.429	0.83689	6.997	0.8849
10.917	6.806	0.8729	6.905	0.8701	10.917	6.979	0.91229	7.243	0.9112	10.817	6.431	0.83715	6.988	0.8838
11.016	6.811	0.8735	6.899	0.8693	11.017	6.977	0.91203	7.253	0.9124	10.917	6.406	0.8339	6.978	0.8825
11.116	6.794	0.8714	6.894	0.8687	11.117	6.985	0.91307	7.243	0.9112	11.016	6.385	0.83116	6.985	0.8834
11.217	6.789	0.8707	6.882	0.8672	11.218	6.968	0.91085	7.248	0.9118	11.117	6.375	0.82986	6.975	0.8821
11.316	6.767	0.8679	6.873	0.8661	11.318	6.957	0.90941	7.244	0.9113	11.217	6.355	0.82726	6.968	0.8812
11.417	6.767	0.8679	6.867	0.8653	11.417	6.958	0.90954	7.207	0.9067	11.316	6.355	0.82726	6.938	0.8775
11.517	6.766	0.8678	6.855	0.8638	11.518	6.946	0.90797	7.221	0.9084	11.417	6.346	0.82609	6.929	0.8763
11.617	6.742	0.8647	6.85	0.8632	11.618	6.933	0.90627	7.199	0.9056	11.517	6.329	0.82387	6.922	0.8754
11.717	6.738	0.8642	6.843	0.8623	11.719	6.93	0.90588	7.222	0.9085	11.618	6.307	0.82101	6.919	0.875
11.817	6.732	0.8634	6.831	0.8608	11.818	6.921	0.90471	7.199	0.9056	11.717	6.304	0.82062	6.911	0.874
11.918	6.722	0.8621	6.823	0.8598	11.918	6.911	0.9034	7.188	0.9043	11.817	6.274	0.81671	6.895	0.872

Table K.2a. Cd column DO and normalized DO for OUR experiments.

Time (min)	Control DO	Normalized Control DO	5 ppm DO	5 ppm Normalized DO	Time (min)	10ppm DO	10 ppm Normalized DO	25 ppm DO	25 ppm Normalized DO	Time (min)	Control DO	Normalized Control DO	50 ppm DO	50 ppm Normalized DO
12.018	6.711	0.8607	6.806	0.8576	12.019	6.902	0.90222	7.185	0.9039	11.918	6.264	0.81541	6.909	0.8738
12.118	6.689	0.8579	6.801	0.857	12.118	6.901	0.90209	7.177	0.9029	12.018	6.245	0.81294	6.882	0.8704
12.218	6.693	0.8584	6.802	0.8571	12.219	6.897	0.90157	7.172	0.9023	12.118	6.24	0.81229	6.875	0.8695
12.318	6.681	0.8569	6.791	0.8557	12.319	6.877	0.89895	7.15	0.8995	12.218	6.233	0.81138	6.883	0.8705
12.419	6.673	0.8558	6.785	0.855	12.419	6.862	0.89699	7.131	0.8971	12.318	6.223	0.81008	6.855	0.867
12.519	6.664	0.8547	6.777	0.854	12.519	6.853	0.89582	7.139	0.8981	12.419	6.211	0.80851	6.833	0.8642
12.618	6.659	0.854	6.77	0.8531	12.619	6.845	0.89477	7.131	0.8971	12.519	6.198	0.80682	6.843	0.8654
12.719	6.647	0.8525	6.762	0.8521	12.72	6.828	0.89255	7.141	0.8984	12.618	6.187	0.80539	6.818	0.8623
12.819	6.642	0.8519	6.755	0.8512	12.82	6.845	0.89477	7.121	0.8958	12.719	6.171	0.80331	6.826	0.8633
12.92	6.637	0.8512	6.748	0.8503	12.92	6.838	0.89386	7.099	0.8931	12.819	6.159	0.80174	6.814	0.8618
13.019	6.63	0.8503	6.74	0.8493	13.02	6.83	0.89281	7.136	0.8977	12.92	6.138	0.79901	6.799	0.8599
13.119	6.617	0.8487	6.733	0.8484	13.12	6.825	0.89216	7.124	0.8962	13.019	6.122	0.79693	6.799	0.8599
13.22	6.602	0.8467	6.725	0.8474	13.221	6.804	0.88941	7.102	0.8934	13.12	6.106	0.79485	6.799	0.8599
13.319	6.598	0.8462	6.716	0.8463	13.321	6.804	0.88941	7.101	0.8933	13.22	6.093	0.79315	6.774	0.8567
13.42	6.6	0.8465	6.709	0.8454	13.42	6.788	0.88732	7.101	0.8933	13.319	6.094	0.79328	6.779	0.8573
13.52	6.566	0.8421	6.698	0.844	13.521	6.794	0.8881	7.077	0.8903	13.42	6.083	0.79185	6.779	0.8573
13.62	6.581	0.844	6.694	0.8435	13.621	6.762	0.88392	7.063	0.8885	13.52	6.064	0.78938	6.757	0.8546
13.72	6.564	0.8419	6.687	0.8426	13.72	6.779	0.88614	7.067	0.889	13.62	6.051	0.78769	6.748	0.8534
13.82	6.551	0.8402	6.677	0.8414	13.821	6.762	0.88392	7.063	0.8885	13.72	6.039	0.78612	6.731	0.8513
13.921	6.547	0.8397	6.671	0.8406	13.921	6.755	0.88301	7.052	0.8872	13.82	6.015	0.783	6.736	0.8519
14.021	6.527	0.8371	6.664	0.8397	14.022	6.749	0.88222	7.057	0.8878	13.921	6.013	0.78274	6.723	0.8503
14.12	6.512	0.8352	6.655	0.8386	14.122	6.742	0.88131	7.035	0.885	14.021	5.988	0.77948	6.696	0.8468
14.221	6.51	0.8349	6.649	0.8378	14.221	6.733	0.88013	7.021	0.8833	14.122	5.969	0.77701	6.718	0.8496
14.321	6.522	0.8365	6.64	0.8367	14.322	6.733	0.88013	7.023	0.8835	14.221	5.964	0.77636	6.703	0.8477
14.422	6.51	0.8349	6.635	0.8361	14.422	6.718	0.87817	7.019	0.883	14.321	5.932	0.77219	6.711	0.8487
14.521	6.495	0.833	6.627	0.8351	14.522	6.717	0.87804	7.019	0.883	14.422	5.937	0.77285	6.681	0.8449
14.621	6.482	0.8313	6.618	0.8339	14.622	6.705	0.87647	7.019	0.883	14.521	5.929	0.7718	6.682	0.8451
14.722	6.478	0.8308	6.611	0.833	14.722	6.706	0.8766	7.011	0.882	14.622	5.922	0.77089	6.686	0.8456
14.822	6.458	0.8283	6.603	0.832	14.823	6.689	0.87438	7.014	0.8824	14.722	5.905	0.76868	6.652	0.8413
14.922	6.456	0.828	6.596	0.8311	14.922	6.686	0.87399	7.011	0.882	14.822	5.892	0.76699	6.657	0.8419
15.022	6.444	0.8265	6.589	0.8303	15.022	6.684	0.87373	7.004	0.8811	14.922	5.865	0.76347	6.618	0.837
15.122	6.426	0.8242	6.579	0.829	15.123	6.668	0.87163	6.987	0.879	15.022	5.863	0.76321	6.62	0.8372

Table K.2a. Cd column DO and normalized DO for OUR experiments.

Time (min)	Control DO	Normalized Control DO	5 ppm DO	5 ppm Normalized DO	Time (min)	10ppm DO	10 ppm Normalized DO	25 ppm DO	25 ppm Normalized DO	Time (min)	Control DO	Normalized Control DO	50 ppm DO	50 ppm Normalized DO
15.223	6.434	0.8252	6.572	0.8281	15.223	6.662	0.87085	6.985	0.8787	15.123	5.843	0.76061	6.628	0.8382
15.323	6.427	0.8243	6.564	0.8271	15.323	6.666	0.87137	6.976	0.8776	15.223	5.836	0.7597	6.615	0.8366
15.423	6.412	0.8224	6.557	0.8262	15.423	6.652	0.86954	6.978	0.8778	15.323	5.829	0.75879	6.591	0.8336
15.523	6.402	0.8211	6.552	0.8256	15.523	6.635	0.86732	6.973	0.8772	15.423	5.799	0.75488	6.591	0.8336
15.623	6.395	0.8202	6.544	0.8246	15.624	6.635	0.86732	6.949	0.8742	15.523	5.79	0.75371	6.591	0.8336
15.723	6.382	0.8185	6.537	0.8237	15.723	6.627	0.86627	6.961	0.8757	15.623	5.795	0.75436	6.584	0.8327
15.823	6.387	0.8192	6.529	0.8227	15.824	6.618	0.8651	6.96	0.8756	15.723	5.787	0.75332	6.569	0.8308
15.924	6.382	0.8185	6.52	0.8216	15.924	6.617	0.86497	6.961	0.8757	15.823	5.768	0.75085	6.579	0.832
16.024	6.37	0.817	6.513	0.8207	16.024	6.613	0.86444	6.954	0.8748	15.924	5.748	0.74824	6.572	0.8312
16.124	6.363	0.8161	6.503	0.8194	16.124	6.607	0.86366	6.922	0.8708	16.024	5.741	0.74733	6.535	0.8265
16.224	6.362	0.816	6.498	0.8188	16.224	6.598	0.86248	6.939	0.8729	16.124	5.728	0.74564	6.539	0.827
16.324	6.343	0.8135	6.493	0.8182	16.325	6.588	0.86118	6.909	0.8692	16.224	5.702	0.74225	6.515	0.824
16.425	6.336	0.8126	6.483	0.8169	16.425	6.593	0.86183	6.912	0.8695	16.324	5.696	0.74147	6.501	0.8222
16.524	6.326	0.8113	6.478	0.8163	16.524	6.583	0.86052	6.909	0.8692	16.425	5.687	0.7403	6.498	0.8218
16.624	6.335	0.8125	6.468	0.815	16.625	6.576	0.85961	6.899	0.8679	16.524	5.663	0.73718	6.486	0.8203
16.725	6.307	0.8089	6.461	0.8141	16.725	6.564	0.85804	6.878	0.8653	16.625	5.662	0.73705	6.496	0.8216
16.825	6.301	0.8081	6.454	0.8133	16.825	6.554	0.85673	6.872	0.8645	16.725	5.64	0.73418	6.498	0.8218
16.925	6.294	0.8072	6.447	0.8124	16.925	6.547	0.85582	6.88	0.8655	16.825	5.625	0.73223	6.464	0.8175
17.025	6.284	0.806	6.441	0.8116	17.025	6.547	0.85582	6.868	0.864	16.925	5.613	0.73067	6.486	0.8203
17.125	6.272	0.8044	6.434	0.8107	17.126	6.534	0.85412	6.873	0.8646	17.025	5.599	0.72885	6.471	0.8184
17.226	6.277	0.8051	6.425	0.8096	17.226	6.527	0.8532	6.86	0.863	17.126	5.587	0.72728	6.476	0.819
17.325	6.252	0.8018	6.419	0.8088	17.325	6.514	0.8515	6.865	0.8636	17.226	5.572	0.72533	6.436	0.814
17.426	6.235	0.7997	6.41	0.8077	17.426	6.519	0.85216	6.863	0.8634	17.325	5.557	0.72338	6.429	0.8131
17.526	6.23	0.799	6.403	0.8068	17.526	6.509	0.85085	6.853	0.8621	17.426	5.542	0.72143	6.425	0.8126
17.626	6.24	0.8003	6.397	0.8061	17.627	6.505	0.85033	6.846	0.8612	17.526	5.543	0.72156	6.42	0.8119
17.726	6.216	0.7972	6.39	0.8052	17.726	6.495	0.84902	6.812	0.857	17.626	5.523	0.71895	6.434	0.8137
17.826	6.213	0.7968	6.381	0.8041	17.826	6.49	0.84837	6.816	0.8575	17.726	5.506	0.71674	6.427	0.8128
17.927	6.194	0.7944	6.373	0.803	17.927	6.482	0.84732	6.821	0.8581	17.826	5.493	0.71505	6.392	0.8084
18.027	6.198	0.7949	6.368	0.8024	18.027	6.48	0.84706	6.806	0.8562	17.927	5.476	0.71284	6.373	0.806
18.126	6.199	0.795	6.358	0.8012	18.126	6.465	0.8451	6.826	0.8587	18.027	5.466	0.71153	6.373	0.806
18.227	6.184	0.7931	6.349	0.8	18.227	6.455	0.84379	6.802	0.8557	18.127	5.449	0.70932	6.376	0.8064
18.327	6.171	0.7915	6.344	0.7994	18.327	6.444	0.84235	6.801	0.8556	18.227	5.444	0.70867	6.361	0.8045

Table K.2a. Cd column DO and normalized DO for OUR experiments.

Time (min)	Control DO	Normalized Control	5 ppm DO	5 ppm Normalized	Time (min)	10ppm DO	10 ppm Cd Normalized	25 ppm DO	25 ppm Cd Normalized	Time (min)	Control DO	Normalized Control	50 ppm DO	50 ppm Normalized
18.427	6.167	0.7909	6.338	0.7986	18.427	6.446	0.84261	6.823	0.8583	18.327	5.432	0.70711	6.353	0.8035
18.527	6.16	0.79	6.327	0.7973	18.527	6.443	0.84222	6.814	0.8572	18.427	5.408	0.70398	6.349	0.803
18.627	6.154	0.7893	6.324	0.7969	18.628	6.431	0.84065	6.801	0.8556	18.527	5.396	0.70242	6.348	0.8028
18.728	6.137	0.7871	6.312	0.7954	18.728	6.424	0.83974	6.799	0.8553	18.628	5.379	0.70021	6.344	0.8023
18.828	6.137	0.7871	6.3	0.7939	18.828	6.426	0.84	6.777	0.8526	18.728	5.369	0.69891	6.336	0.8013
18.928	6.125	0.7856	6.3	0.7939	18.928	6.385	0.83464	6.765	0.8511	18.828	5.361	0.69787	6.327	0.8002
19.028	6.122	0.7852	6.294	0.7931	19.028	6.324	0.82667	6.772	0.8519	18.928	5.336	0.69461	6.327	0.8002
19.128	6.113	0.784	6.288	0.7923	19.128	6.279	0.82078	6.755	0.8498	19.028	5.315	0.69188	6.305	0.7974
19.229	6.111	0.7838	6.278	0.7911	19.229	6.252	0.81725	6.763	0.8508	19.129	5.31	0.69123	6.302	0.797
19.328	6.103	0.7827	6.268	0.7898	19.328	6.34	0.82876	6.774	0.8522	19.229	5.292	0.68888	6.297	0.7964
19.429	6.091	0.7812	6.261	0.7889	19.429	6.446	0.84261	6.767	0.8513	19.328	5.285	0.68797	6.278	0.794
19.529	6.091	0.7812	6.258	0.7886	19.529	6.46	0.84444	6.752	0.8494	19.429	5.268	0.68576	6.278	0.794
19.629	6.083	0.7802	6.25	0.7876	19.629	6.455	0.84379	6.731	0.8468	19.529	5.256	0.6842	6.258	0.7915
19.729	6.066	0.778	6.239	0.7862	19.729	6.422	0.83948	6.708	0.8439	19.629	5.244	0.68263	6.26	0.7917
19.829	6.051	0.7761	6.236	0.7858	19.829	6.414	0.83843	6.698	0.8426	19.729	5.219	0.67938	6.272	0.7932
19.93	6.057	0.7768	6.229	0.7849	19.93	6.414	0.83843	6.698	0.8426	19.829	5.212	0.67847	6.226	0.7874
20.029	6.034	0.7739	6.223	0.7841	20.029	6.395	0.83595	6.709	0.844	19.93	5.199	0.67678	6.224	0.7872
20.129	6.035	0.774	6.217	0.7834	20.129	6.384	0.83451	6.718	0.8451	20.029	5.178	0.67404	6.219	0.7865
20.23	6.03	0.7734	6.209	0.7824	20.23	6.372	0.83294	6.716	0.8449	20.13	5.168	0.67274	6.217	0.7863
20.33	6.01	0.7708	6.199	0.7811	20.33	6.172	0.8068	6.694	0.8421	20.23	5.153	0.67079	6.214	0.7859
20.431	6.003	0.7699	6.192	0.7802	20.431	6.12	0.8	6.692	0.8419	20.33	5.134	0.66832	6.223	0.787
20.53	5.993	0.7686	6.185	0.7794	20.53	6.086	0.79556	6.682	0.8406	20.431	5.121	0.66662	6.196	0.7836
20.63	5.993	0.7686	6.177	0.7784	20.63	6.088	0.79582	6.687	0.8412	20.53	5.121	0.66662	6.187	0.7825
20.731	5.991	0.7684	6.167	0.7771	20.731	6.073	0.79386	6.671	0.8392	20.631	5.116	0.66597	6.18	0.7816
20.83	5.964	0.7649	6.162	0.7765	20.83	6.086	0.79556	6.667	0.8387	20.731	5.095	0.66324	6.184	0.7821
20.931	5.969	0.7656	6.152	0.7752	20.93	6.147	0.80353	6.65	0.8366	20.83	5.074	0.66051	6.143	0.7769
21.031	5.946	0.7626	6.148	0.7747	21.031	6.184	0.80837	6.647	0.8362	20.931	5.062	0.65894	6.141	0.7767
21.131	5.946	0.7626	6.147	0.7746	21.131	6.191	0.80928	6.627	0.8337	21.031	5.05	0.65738	6.13	0.7753
21.232	5.937	0.7614	6.133	0.7728	21.232	6.187	0.80876	6.64	0.8353	21.132	5.036	0.65556	6.116	0.7735
21.331	5.922	0.7595	6.125	0.7718	21.331	6.169	0.80641	6.632	0.8343	21.232	5.013	0.65256	6.133	0.7756
21.432	5.919	0.7591	6.123	0.7715	21.431	6.225	0.81373	6.621	0.8329	21.331	5.008	0.65191	6.125	0.7746
21.532	5.914	0.7585	6.113	0.7703	21.532	6.204	0.81098	6.618	0.8326	21.432	4.996	0.65035	6.106	0.7722

Table K.2a. Cd column DO and normalized DO for OUR experiments.

Time (min)	Control DO	Normalized Control DO	5 ppm DO	5 ppm Normalized DO	Time (min)	10ppm DO	10 ppm Normalized DO	25 ppm DO	25 ppm Normalized DO	Time (min)	Control DO	Normalized Control DO	50 ppm DO	50 ppm Normalized DO
21.632	5.919	0.7591	6.108	0.7697	21.632	6.189	0.80902	6.616	0.8323	21.532	4.977	0.64788	6.099	0.7713
21.732	5.9	0.7567	6.096	0.7681	21.732	6.172	0.8068	6.598	0.83	21.632	4.962	0.64593	6.077	0.7686
21.832	5.892	0.7557	6.094	0.7679	21.832	6.165	0.80588	6.566	0.826	21.732	4.943	0.64345	6.077	0.7686
21.933	5.876	0.7536	6.087	0.767	21.932	6.154	0.80444	6.591	0.8292	21.832	4.932	0.64202	6.091	0.7703
22.032	5.878	0.7539	6.079	0.766	22.032	6.159	0.8051	6.584	0.8283	21.933	4.915	0.63981	6.079	0.7688
22.132	5.86	0.7516	6.067	0.7645	22.132	6.142	0.80288	6.586	0.8285	22.032	4.913	0.63955	6.059	0.7663
22.233	5.854	0.7508	6.057	0.7632	22.233	6.149	0.80379	6.579	0.8277	22.133	4.898	0.63759	6.059	0.7663
22.333	5.844	0.7495	6.054	0.7629	22.333	6.13	0.80131	6.564	0.8258	22.233	4.888	0.63629	6.076	0.7684
22.434	5.838	0.7487	6.052	0.7626	22.433	6.125	0.80065	6.55	0.824	22.333	4.871	0.63408	6.065	0.767
22.533	5.836	0.7485	6.045	0.7617	22.533	6.115	0.79935	6.537	0.8224	22.434	4.879	0.63512	6.033	0.763
22.633	5.826	0.7472	6.037	0.7607	22.633	6.118	0.79974	6.54	0.8227	22.533	4.859	0.63252	6.021	0.7615
22.734	5.817	0.7461	6.016	0.7581	22.733	6.111	0.79882	6.539	0.8226	22.634	4.832	0.629	6.023	0.7617
22.833	5.809	0.745	6.02	0.7586	22.833	6.111	0.79882	6.525	0.8209	22.734	4.828	0.62848	6.015	0.7607
22.934	5.805	0.7445	6.013	0.7577	22.933	6.096	0.79686	6.523	0.8206	22.833	4.805	0.62549	6.016	0.7608
23.034	5.804	0.7444	6.006	0.7568	23.034	6.088	0.79582	6.501	0.8178	22.934	4.788	0.62328	6.01	0.7601
23.134	5.787	0.7422	5.999	0.7559	23.134	6.101	0.79752	6.52	0.8202	23.034	4.771	0.62106	5.998	0.7586
23.235	5.78	0.7413	5.983	0.7539	23.233	6.079	0.79464	6.539	0.8226	23.135	4.746	0.61781	5.979	0.7562
23.334	5.77	0.74	5.983	0.7539	23.334	6.074	0.79399	6.52	0.8202	23.235	4.735	0.61638	5.952	0.7528
23.434	5.763	0.7391	5.977	0.7532	23.434	6.064	0.79268	6.498	0.8175	23.334	4.72	0.61442	5.939	0.7511
23.535	5.758	0.7385	5.974	0.7528	23.534	6.059	0.79203	6.496	0.8172	23.435	4.708	0.61286	5.947	0.7521
23.635	5.733	0.7353	5.967	0.7519	23.635	6.061	0.79229	6.5	0.8177	23.535	4.698	0.61156	5.942	0.7515
23.735	5.724	0.7341	5.952	0.75	23.734	6.056	0.79163	6.493	0.8168	23.635	4.686	0.61	5.95	0.7525
23.835	5.723	0.734	5.95	0.7497	23.835	6.056	0.79163	6.481	0.8153	23.735	4.664	0.60713	5.927	0.7496
23.935	5.706	0.7318	5.949	0.7496	23.935	6.039	0.78941	6.476	0.8147	23.835	4.661	0.60674	5.928	0.7497
24.035	5.704	0.7316	5.94	0.7485	24.035	6.027	0.78784	6.474	0.8144	23.936	4.639	0.60388	5.91	0.7474
24.135	5.692	0.73	5.927	0.7468	24.135	6.022	0.78719	6.478	0.8149	24.035	4.627	0.60232	5.918	0.7485
24.236	5.684	0.729	5.922	0.7462	24.235	6.012	0.78588	6.452	0.8117	24.136	4.595	0.59815	5.905	0.7468
24.336	5.685	0.7291	5.912	0.745	24.336	6.013	0.78601	6.458	0.8124	24.236	4.588	0.59724	5.906	0.7469
24.435	5.663	0.7263	5.91	0.7447	24.435	6.013	0.78601	6.452	0.8117	24.336	4.575	0.59555	5.895	0.7455
24.536	5.653	0.725	5.901	0.7436	24.535	6.008	0.78536	6.466	0.8134	24.437	4.56	0.5936	5.886	0.7444
24.636	5.643	0.7237	5.891	0.7423	24.636	5.99	0.78301	6.449	0.8113	24.536	4.553	0.59268	5.866	0.7419
24.737	5.643	0.7237	5.888	0.7419	24.736	5.988	0.78275	6.439	0.81	24.637	4.531	0.58982	5.871	0.7425

Table K.2a. Cd column DO and normalized DO for OUR experiments.

Time (min)	Control DO	Normalized Control DO	5 ppm DO	5 ppm Normalized DO	Time (min)	10ppm DO	10 ppm Normalized DO	25 ppm DO	25 ppm Normalized DO	Time (min)	Control DO	Normalized Control DO	50 ppm DO	50 ppm Normalized DO
24.837	5.643	0.7237	5.876	0.7404	24.837	5.985	0.78235	6.449	0.8113	24.837	4.517	0.588	5.849	0.7397
24.936	5.631	0.7222	5.873	0.74	24.936	5.974	0.78092	6.436	0.8097	24.837	4.509	0.58696	5.841	0.7387
25.037	5.619	0.7207	5.868	0.7394	25.036	5.959	0.77895	6.422	0.8079	24.937	4.484	0.5837	5.814	0.7353
25.137	5.603	0.7186	5.863	0.7388	25.137	5.958	0.77882	6.415	0.807	25.037	4.472	0.58214	5.8	0.7335
25.237	5.608	0.7193	5.851	0.7373	25.236	5.958	0.77882	6.395	0.8045	25.138	4.462	0.58084	5.82	0.7361
25.337	5.589	0.7168	5.846	0.7366	25.337	5.792	0.75712	6.395	0.8045	25.237	4.451	0.57941	5.822	0.7363
25.437	5.579	0.7155	5.841	0.736	25.437	5.778	0.75529	6.381	0.8027	25.338	4.438	0.57771	5.798	0.7333
25.538	5.582	0.7159	5.834	0.7351	25.537	5.838	0.76314	6.375	0.802	25.438	4.421	0.5755	5.8	0.7335
25.638	5.56	0.7131	5.825	0.734	25.638	5.777	0.75516	6.385	0.8032	25.538	4.404	0.57329	5.786	0.7318
25.738	5.564	0.7136	5.812	0.7324	25.737	5.778	0.75529	6.373	0.8017	25.638	4.384	0.57068	5.792	0.7325
25.838	5.552	0.7121	5.808	0.7319	25.837	5.773	0.75464	6.376	0.8021	25.738	4.379	0.57003	5.79	0.7323
25.938	5.543	0.7109	5.803	0.7312	25.938	5.758	0.75268	6.354	0.7993	25.839	4.357	0.56717	5.776	0.7305
26.038	5.528	0.709	5.803	0.7312	26.038	5.76	0.75294	6.346	0.7983	25.939	4.34	0.56496	5.771	0.7299
26.138	5.51	0.7067	5.792	0.7298	26.138	5.76	0.75294	6.348	0.7986	26.038	4.331	0.56379	5.758	0.7282
26.239	5.508	0.7064	5.786	0.7291	26.238	5.687	0.7434	6.329	0.7962	26.139	4.325	0.563	5.741	0.7261
26.339	5.494	0.7046	5.778	0.7281	26.339	5.697	0.74471	6.329	0.7962	26.239	4.308	0.56079	5.714	0.7227
26.438	5.501	0.7055	5.764	0.7263	26.438	5.689	0.74366	6.322	0.7953	26.34	4.288	0.55819	5.722	0.7237
26.539	5.496	0.7049	5.764	0.7263	26.538	5.694	0.74431	6.324	0.7956	26.439	4.269	0.55571	5.739	0.7258
26.639	5.493	0.7045	5.756	0.7253	26.639	5.69	0.74379	6.326	0.7958	26.539	4.262	0.5548	5.71	0.7221
26.74	5.474	0.7021	5.749	0.7244	26.739	5.685	0.74314	6.299	0.7924	26.64	4.244	0.55246	5.693	0.72
26.839	5.462	0.7005	5.744	0.7238	26.838	5.677	0.74209	6.292	0.7915	26.74	4.225	0.54999	5.692	0.7199
26.939	5.452	0.6992	5.732	0.7223	26.939	5.68	0.74248	6.294	0.7918	26.84	4.222	0.5496	5.693	0.72
27.04	5.445	0.6983	5.729	0.7219	27.039	5.677	0.74209	6.302	0.7928	26.94	4.215	0.54869	5.678	0.7181
27.14	5.434	0.6969	5.717	0.7204	27.14	5.67	0.74118	6.299	0.7924	27.04	4.201	0.54686	5.675	0.7177
27.24	5.435	0.6971	5.707	0.7191	27.24	5.69	0.74379	6.295	0.7919	27.141	4.184	0.54465	5.67	0.7171
27.34	5.44	0.6977	5.702	0.7185	27.339	5.685	0.74314	6.278	0.7898	27.24	4.178	0.54387	5.682	0.7186
27.44	5.427	0.696	5.697	0.7179	27.44	5.687	0.7434	6.273	0.7892	27.34	4.157	0.54114	5.656	0.7153
27.541	5.417	0.6948	5.688	0.7167	27.54	5.69	0.74379	6.275	0.7894	27.441	4.137	0.53853	5.636	0.7128
27.64	5.413	0.6942	5.682	0.716	27.64	5.696	0.74458	6.258	0.7873	27.541	4.122	0.53658	5.648	0.7143
27.741	5.39	0.6913	5.626	0.7089	27.74	5.682	0.74275	6.248	0.786	27.641	4.113	0.53541	5.628	0.7118
27.841	5.379	0.6899	5.587	0.704	27.84	5.677	0.74209	6.236	0.7845	27.741	4.091	0.53254	5.619	0.7106
27.941	5.363	0.6878	5.535	0.6975	27.941	5.655	0.73922	6.255	0.7869	27.841	4.08	0.53111	5.622	0.711

Table K.2a. Cd column DO and normalized DO for OUR experiments.

Time (min)	Control DO	Normalized Control DO	5 ppm DO	5 ppm Normalized DO	Time (min)	10ppm DO	10 ppm Normalized DO	25 ppm DO	25 ppm Normalized DO	Time (min)	Control DO	Normalized Control DO	50 ppm DO	50 ppm Normalized DO
28.041	5.363	0.6878	5.558	0.7004	28.041	5.672	0.74144	6.248	0.786	27.942	4.056	0.52799	5.606	0.709
28.141	5.357	0.6871	5.511	0.6944	28.141	5.662	0.74013	6.234	0.7842	28.041	4.056	0.52799	5.592	0.7072
28.241	5.346	0.6856	5.486	0.6913	28.241	5.643	0.73765	6.229	0.7836	28.142	4.032	0.52486	5.592	0.7072
28.342	5.352	0.6864	5.513	0.6947	28.341	5.635	0.7366	6.226	0.7832	28.242	4.014	0.52252	5.584	0.7062
28.441	5.327	0.6832	5.482	0.6908	28.441	5.625	0.73529	6.228	0.7835	28.343	4.012	0.52226	5.575	0.7051
28.542	5.317	0.6819	5.435	0.6849	28.541	5.614	0.73386	6.219	0.7824	28.442	3.993	0.51979	5.575	0.7051
28.642	5.302	0.68	5.479	0.6904	28.642	5.618	0.73438	6.206	0.7807	28.542	3.982	0.51835	5.579	0.7056
28.743	5.307	0.6806	5.452	0.687	28.742	5.628	0.73569	6.212	0.7815	28.643	3.963	0.51588	5.55	0.7019
28.842	5.297	0.6794	5.426	0.6837	28.841	5.616	0.73412	6.204	0.7805	28.743	3.951	0.51432	5.531	0.6995
28.942	5.295	0.6791	5.418	0.6827	28.942	5.608	0.73307	6.202	0.7802	28.843	3.933	0.51198	5.548	0.7017
29.043	5.278	0.6769	5.398	0.6802	29.042	5.603	0.73242	6.202	0.7802	28.943	3.922	0.51054	5.528	0.6991
29.143	5.27	0.6759	5.425	0.6836	29.142	5.625	0.73529	6.19	0.7787	29.043	3.912	0.50924	5.511	0.697
29.242	5.266	0.6754	5.393	0.6796	29.242	5.614	0.73386	6.172	0.7764	29.143	3.894	0.5069	5.497	0.6952
29.343	5.249	0.6732	5.418	0.6827	29.342	5.579	0.72928	6.177	0.7771	29.243	3.877	0.50469	5.514	0.6974
29.443	5.231	0.6709	5.413	0.6821	29.443	5.592	0.73098	6.168	0.7759	29.343	3.865	0.50312	5.499	0.6955
29.544	5.243	0.6724	5.415	0.6823	29.543	5.591	0.73085	6.168	0.7759	29.444	3.838	0.49961	5.501	0.6957
29.643	5.221	0.6696	5.398	0.6802	29.643	5.567	0.72771	6.165	0.7756	29.544	3.836	0.49935	5.492	0.6946
29.743	5.219	0.6694	5.416	0.6825	29.743	5.559	0.72667	6.16	0.7749	29.644	3.823	0.49766	5.482	0.6933
29.844	5.207	0.6678	5.396	0.6799	29.843	5.554	0.72601	6.15	0.7737	29.744	3.811	0.49609	5.46	0.6905
29.944	5.195	0.6663	5.408	0.6815	29.944	5.542	0.72444	6.131	0.7713	29.845	3.787	0.49297	5.452	0.6895
30.044	5.194	0.6662	5.35	0.6741	30.043	5.562	0.72706	6.145	0.7731	29.944	3.769	0.49063	5.477	0.6927
30.144	5.187	0.6653	5.364	0.6759	30.144	5.542	0.72444	6.131	0.7713	30.044	3.755	0.4888	5.457	0.6901
30.244	5.17	0.6631	5.332	0.6719	30.244	5.543	0.72458	6.116	0.7694	30.145	3.747	0.48776	5.413	0.6846
30.344	5.168	0.6628	5.335	0.6723	30.344	5.542	0.72444	6.13	0.7712	30.245	3.723	0.48464	5.425	0.6861
30.444	5.158	0.6615	5.366	0.6762	30.444	5.527	0.72248	6.123	0.7703	30.346	3.708	0.48269	5.431	0.6869
30.544	5.151	0.6606	5.35	0.6741	30.544	5.515	0.72092	6.104	0.7679	30.445	3.709	0.48282	5.421	0.6856
30.645	5.133	0.6583	5.34	0.6729	30.645	5.51	0.72026	6.101	0.7675	30.545	3.674	0.47826	5.404	0.6834
30.745	5.114	0.6559	5.317	0.67	30.745	5.505	0.71961	6.092	0.7664	30.646	3.669	0.47761	5.415	0.6848
30.845	5.116	0.6561	5.313	0.6695	30.844	5.496	0.71843	6.103	0.7678	30.746	3.662	0.4767	5.396	0.6824
30.945	5.109	0.6553	5.286	0.6661	30.945	5.489	0.71752	6.091	0.7663	30.846	3.645	0.47449	5.394	0.6822
31.046	5.101	0.6542	5.3	0.6678	31.045	5.488	0.71739	6.079	0.7648	30.946	3.627	0.47214	5.388	0.6814
31.146	5.092	0.6531	5.269	0.6639	31.146	5.484	0.71686	6.06	0.7624	31.046	3.61	0.46993	5.379	0.6803

Table K.2a. Cd column DO and normalized DO for OUR experiments.

Time (min)	Control DO	Normalized Control	5 ppm DO	5 ppm Normalized	Time (min)	10ppm DO	10 ppm Cd Normalized	25 ppm DO	25 ppm Cd Normalized	Time (min)	Control DO	Normalized Control	50 ppm DO	50 ppm Normalized
31.245	5.072	0.6505	5.281	0.6654	31.245	5.454	0.71294	6.089	0.766	31.146	3.6	0.46863	5.367	0.6788
31.346	5.067	0.6499	5.288	0.6663	31.345	5.466	0.71451	6.065	0.763	31.246	3.581	0.46615	5.359	0.6778
31.446	5.058	0.6487	5.276	0.6648	31.446	5.494	0.71817	6.06	0.7624	31.347	3.567	0.46433	5.339	0.6752
31.546	5.053	0.6481	5.257	0.6624	31.546	5.413	0.70758	6.057	0.762	31.447	3.557	0.46303	5.328	0.6738
31.646	5.048	0.6474	5.232	0.6593	31.645	5.408	0.70693	6.052	0.7614	31.546	3.542	0.46108	5.303	0.6707
31.746	5.041	0.6465	5.24	0.6603	31.746	5.407	0.7068	6.05	0.7611	31.647	3.527	0.45913	5.32	0.6728
31.847	5.019	0.6437	5.234	0.6595	31.846	5.396	0.70536	6.033	0.759	31.747	3.507	0.45652	5.32	0.6728
31.947	5.021	0.644	5.249	0.6614	31.947	5.385	0.70392	6.03	0.7586	31.848	3.488	0.45405	5.317	0.6724
32.046	5.003	0.6417	5.24	0.6603	32.046	5.378	0.70301	6.023	0.7577	31.948	3.476	0.45249	5.286	0.6685
32.147	4.996	0.6408	5.222	0.658	32.147	5.371	0.70209	6.021	0.7575	32.047	3.464	0.45092	5.293	0.6694
32.247	4.997	0.6409	5.225	0.6584	32.247	5.359	0.70052	6.02	0.7573	32.148	3.444	0.44832	5.286	0.6685
32.347	4.982	0.639	5.219	0.6576	32.347	5.356	0.70013	6.018	0.7571	32.248	3.431	0.44663	5.286	0.6685
32.447	4.969	0.6373	5.215	0.6571	32.447	5.351	0.69948	6.01	0.7561	32.348	3.417	0.44481	5.251	0.6641
32.547	4.97	0.6374	5.178	0.6525	32.547	5.354	0.69987	6.01	0.7561	32.448	3.405	0.44324	5.256	0.6647
32.648	4.962	0.6364	5.197	0.6549	32.648	5.342	0.6983	5.989	0.7534	32.549	3.387	0.4409	5.24	0.6627
32.748	4.959	0.636	5.19	0.654	32.748	5.341	0.69817	5.989	0.7534	32.649	3.363	0.43778	5.246	0.6635
32.848	4.95	0.6349	5.195	0.6546	32.847	5.334	0.69725	5.998	0.7546	32.749	3.356	0.43687	5.249	0.6638
32.948	4.937	0.6332	5.169	0.6513	32.948	5.327	0.69634	5.979	0.7522	32.849	3.339	0.43465	5.247	0.6636
33.048	4.93	0.6323	5.153	0.6493	33.048	5.32	0.69542	5.972	0.7513	32.949	3.319	0.43205	5.232	0.6617
33.148	4.921	0.6311	5.154	0.6494	33.148	5.314	0.69464	5.984	0.7528	33.05	3.304	0.4301	5.207	0.6585
33.248	4.906	0.6292	5.144	0.6482	33.248	5.31	0.69412	5.942	0.7475	33.15	3.29	0.42827	5.208	0.6587
33.349	4.904	0.629	5.124	0.6457	33.348	5.3	0.69281	5.95	0.7485	33.249	3.287	0.42788	5.212	0.6592
33.449	4.891	0.6273	5.141	0.6478	33.449	5.3	0.69281	5.937	0.7469	33.35	3.258	0.42411	5.205	0.6583
33.549	4.889	0.627	5.115	0.6445	33.549	5.292	0.69176	5.939	0.7471	33.45	3.253	0.42346	5.183	0.6555
33.649	4.881	0.626	5.126	0.6459	33.649	5.285	0.69085	5.93	0.746	33.55	3.238	0.4215	5.173	0.6542
33.749	4.867	0.6242	5.114	0.6444	33.749	5.281	0.69033	5.927	0.7456	33.65	3.211	0.41799	5.146	0.6508
33.85	4.866	0.6241	5.088	0.6411	33.849	5.266	0.68837	5.928	0.7458	33.75	3.204	0.41708	5.154	0.6518
33.95	4.864	0.6238	5.105	0.6433	33.95	5.258	0.68732	5.912	0.7437	33.851	3.18	0.41395	5.156	0.6521
34.049	4.861	0.6234	5.098	0.6424	34.049	5.259	0.68745	5.896	0.7417	33.951	3.162	0.41161	5.134	0.6493
34.15	4.84	0.6208	5.097	0.6423	34.15	5.251	0.68641	5.912	0.7437	34.051	3.153	0.41044	5.129	0.6487
34.25	4.833	0.6199	5.073	0.6392	34.25	5.248	0.68601	5.901	0.7424	34.151	3.135	0.4081	5.146	0.6508
34.35	4.818	0.6179	5	0.63	34.349	5.244	0.68549	5.903	0.7426	34.251	3.123	0.40653	5.117	0.6471

Table K.2a. Cd column DO and normalized DO for OUR experiments.

Time (min)	Control DO	Normalized Control DO	5 ppm Normalized DO	5 ppm Normalized d	Time (min)	10ppm DO	10 ppm Cd Normalized DO	10 ppm Normalized DO	25 ppm Cd DO	25 ppm Normalized d	Time (min)	Control DO	Normalized Control DO	50 ppm DO	50 ppm Normalized d
34.45	4.812	0.6172	5.049	0.6362	34.45	5.236	0.68444	5.885	0.7403	34.351	3.108	0.40458	5.102	0.6453	
34.55	4.803	0.616	5.043	0.6355	34.55	5.231	0.68379	5.888	0.7407	34.451	3.092	0.4025	5.115	0.6469	
34.651	4.786	0.6138	5.044	0.6356	34.651	5.222	0.68261	5.886	0.7405	34.552	3.077	0.40055	5.11	0.6463	
34.75	4.773	0.6122	5.039	0.635	34.75	5.222	0.68261	5.868	0.7382	34.652	3.059	0.3982	5.093	0.6441	
34.851	4.756	0.61	5.039	0.635	34.85	5.214	0.68157	5.859	0.7371	34.751	3.047	0.39664	5.082	0.6427	
34.951	4.759	0.6104	5.043	0.6355	34.951	5.207	0.68065	5.859	0.7371	34.852	3.035	0.39508	5.063	0.6403	
35.051	4.747	0.6088	5.019	0.6324	35.051	5.204	0.68026	5.869	0.7383	34.952	3.016	0.39261	5.077	0.6421	
35.152	4.732	0.6069	4.997	0.6297	35.152	5.192	0.67869	5.835	0.7341	35.053	3.005	0.39117	5.061	0.6401	
35.251	4.725	0.606	4.984	0.628	35.251	5.187	0.67804	5.857	0.7368	35.152	2.988	0.38896	5.053	0.6391	
35.352	4.717	0.605	4.967	0.6259	35.351	5.185	0.67778	5.849	0.7358	35.253	2.978	0.38766	5.06	0.6399	
35.452	4.707	0.6037	4.958	0.6247	35.452	5.187	0.67804	5.839	0.7346	35.353	2.966	0.3861	5.031	0.6363	
35.552	4.68	0.6002	4.957	0.6246	35.551	5.18	0.67712	5.825	0.7328	35.453	2.947	0.38362	5.019	0.6348	
35.652	4.683	0.6006	4.968	0.626	35.652	5.155	0.67386	5.805	0.7303	35.553	2.934	0.38193	5.041	0.6375	
35.752	4.676	0.5997	4.962	0.6253	35.752	5.114	0.6685	5.819	0.732	35.653	2.915	0.37946	5.009	0.6335	
35.853	4.678	0.6	4.951	0.6239	35.852	5.021	0.65634	5.812	0.7312	35.754	2.903	0.3779	5.002	0.6326	
35.952	4.661	0.5978	4.921	0.6201	35.952	5.031	0.65765	5.793	0.7288	35.854	2.885	0.37555	5.024	0.6354	
36.052	4.648	0.5961	4.928	0.621	36.052	5.087	0.66497	5.792	0.7286	35.953	2.868	0.37334	5.016	0.6344	
36.153	4.637	0.5947	4.926	0.6207	36.153	5.104	0.66719	5.795	0.729	36.054	2.859	0.37217	4.997	0.632	
36.253	4.631	0.5939	4.923	0.6203	36.253	5.099	0.66654	5.798	0.7294	36.154	2.839	0.36957	4.978	0.6296	
36.353	4.624	0.593	4.892	0.6164	36.353	5.097	0.66627	5.802	0.7299	36.255	2.822	0.36735	4.957	0.6269	
36.453	4.615	0.5919	4.884	0.6154	36.453	5.092	0.66562	5.783	0.7275	36.354	2.808	0.36553	4.953	0.6264	
36.554	4.6	0.59	4.924	0.6205	36.553	5.085	0.66471	5.77	0.7259	36.454	2.788	0.36293	4.967	0.6282	
36.654	4.6	0.59	4.887	0.6158	36.654	5.082	0.66431	5.776	0.7266	36.555	2.776	0.36136	4.957	0.6269	
36.754	4.58	0.5874	4.845	0.6105	36.754	5.07	0.66275	5.77	0.7259	36.655	2.758	0.35902	4.936	0.6243	
36.854	4.563	0.5852	4.899	0.6173	36.854	5.067	0.66235	5.758	0.7244	36.755	2.744	0.3572	4.936	0.6243	
36.954	4.561	0.585	4.884	0.6154	36.954	5.063	0.66183	5.746	0.7229	36.855	2.731	0.35551	4.926	0.623	
37.055	4.556	0.5843	4.884	0.6154	37.054	5.06	0.66144	5.761	0.7247	36.955	2.719	0.35394	4.923	0.6226	
37.154	4.548	0.5833	4.886	0.6157	37.154	5.046	0.65961	5.753	0.7237	37.056	2.69	0.35017	4.914	0.6215	
37.254	4.541	0.5824	4.842	0.6101	37.254	5.041	0.65895	5.739	0.722	37.155	2.685	0.34952	4.911	0.6211	
37.355	4.534	0.5815	4.831	0.6087	37.354	5.031	0.65765	5.737	0.7217	37.256	2.668	0.34731	4.911	0.6211	
37.455	4.519	0.5796	4.82	0.6074	37.455	5.038	0.65856	5.722	0.7198	37.356	2.656	0.34574	4.896	0.6192	
37.555	4.512	0.5787	4.835	0.6092	37.555	5.025	0.65686	5.71	0.7183	37.457	2.641	0.34379	4.897	0.6193	

Table K.2a. Cd column DO and normalized DO for OUR experiments.

Time (min)	Control DO	Normalized Control DO	5 ppm DO	5 ppm Normalized DO	Time (min)	10ppm DO	10 ppm Normalized DO	25 ppm DO	25 ppm Normalized DO	Time (min)	Control DO	Normalized Control DO	50 ppm DO	50 ppm Normalized DO
37.655	4.502	0.5774	4.83	0.6086	37.655	5.021	0.65634	5.71	0.7183	37.655	2.619	0.34093	4.875	0.6165
37.755	4.5	0.5771	4.809	0.606	37.755	5.014	0.65542	5.7	0.7171	37.656	2.609	0.33963	4.852	0.6136
37.856	4.494	0.5764	4.84	0.6099	37.855	5.013	0.65529	5.685	0.7152	37.757	2.59	0.33715	4.847	0.613
37.955	4.487	0.5755	4.828	0.6084	37.956	5.004	0.65412	5.697	0.7167	37.856	2.575	0.3352	4.843	0.6125
38.056	4.47	0.5733	4.808	0.6058	38.055	5.004	0.65412	5.692	0.7161	37.957	2.558	0.33299	4.843	0.6125
38.156	4.467	0.5729	4.818	0.6071	38.156	4.992	0.65255	5.685	0.7152	38.057	2.54	0.33064	4.83	0.6109
38.256	4.455	0.5714	4.83	0.6086	38.256	4.987	0.6519	5.682	0.7148	38.157	2.526	0.32882	4.833	0.6112
38.356	4.445	0.5701	4.794	0.6041	38.355	4.984	0.6515	5.682	0.7148	38.257	2.511	0.32687	4.83	0.6109
38.456	4.435	0.5688	4.803	0.6052	38.456	4.975	0.65033	5.668	0.713	38.357	2.496	0.32492	4.813	0.6087
38.557	4.426	0.5677	4.764	0.6003	38.556	4.975	0.65033	5.651	0.7109	38.458	2.479	0.3227	4.818	0.6093
38.657	4.416	0.5664	4.737	0.5969	38.657	4.97	0.64967	5.665	0.7127	38.458	2.464	0.32075	4.793	0.6062
38.756	4.408	0.5653	4.766	0.6006	38.757	4.962	0.64863	5.658	0.7118	38.558	2.45	0.31893	4.803	0.6074
38.857	4.397	0.5639	4.757	0.5994	38.856	4.955	0.64771	5.644	0.71	38.658	2.435	0.31697	4.789	0.6057
38.957	4.391	0.5632	4.749	0.5984	38.957	4.95	0.64706	5.622	0.7073	38.858	2.42	0.31502	4.776	0.604
39.057	4.384	0.5623	4.74	0.5973	39.057	4.945	0.64641	5.624	0.7075	38.958	2.399	0.31229	4.769	0.6031
39.157	4.374	0.561	4.732	0.5963	39.157	4.935	0.6451	5.631	0.7084	39.058	2.386	0.3106	4.762	0.6023
39.257	4.365	0.5598	4.715	0.5941	39.257	4.93	0.64444	5.614	0.7063	39.158	2.369	0.30838	4.744	0.6
39.358	4.36	0.5592	4.715	0.5941	39.357	4.928	0.64418	5.611	0.7059	39.259	2.349	0.30578	4.74	0.5995
39.458	4.36	0.5592	4.691	0.5911	39.458	4.916	0.64261	5.614	0.7063	39.359	2.339	0.30448	4.737	0.5991
39.558	4.342	0.5569	4.695	0.5916	39.557	4.911	0.64196	5.606	0.7052	39.458	2.323	0.3024	4.727	0.5978
39.658	4.35	0.5579	4.696	0.5917	39.658	4.903	0.64092	5.602	0.7047	39.559	2.308	0.30044	4.715	0.5963
39.758	4.33	0.5553	4.701	0.5924	39.758	4.901	0.64065	5.595	0.7039	39.659	2.296	0.29888	4.695	0.5938
39.859	4.318	0.5538	4.676	0.5892	39.858	4.893	0.63961	5.602	0.7047	39.76	2.273	0.29589	4.701	0.5945
39.958	4.309	0.5526	4.666	0.588	39.958	4.891	0.63935	5.587	0.7029	39.86	2.257	0.2938	4.715	0.5963
40.059	4.301	0.5516	4.662	0.5874	40.058	4.879	0.63778	5.565	0.7001	39.959	2.244	0.29211	4.695	0.5938
40.159	4.277	0.5485	4.651	0.5861	40.159	4.874	0.63712	5.577	0.7016	40.06	2.225	0.28964	4.671	0.5907
40.259	4.284	0.5494	4.618	0.5819	40.259	4.862	0.63556	5.562	0.6997	40.16	2.213	0.28808	4.674	0.5911
40.359	4.26	0.5464	4.656	0.5867	40.358	4.862	0.63556	5.568	0.7005	40.261	2.202	0.28664	4.657	0.589
40.459	4.262	0.5466	4.612	0.5811	40.459	4.855	0.63464	5.558	0.6992	40.36	2.181	0.28391	4.657	0.589
40.56	4.242	0.5441	4.591	0.5785	40.559	4.852	0.63425	5.555	0.6988	40.46	2.163	0.28157	4.645	0.5875
40.66	4.238	0.5435	4.62	0.5822	40.66	4.844	0.6332	5.54	0.6969	40.561	2.151	0.28001	4.63	0.5856
40.76	4.217	0.5408	4.625	0.5828	40.759	4.837	0.63229	5.543	0.6973	40.66	2.132	0.27753	4.637	0.5864

Table K.2a. Cd column DO and normalized DO for OUR experiments.

Time (min)	Control DO	Normalized Control	5 ppm DO	5 ppm Normalized	Time (min)	10ppm DO	10 ppm Cd Normalized	25 ppm DO	25 ppm Cd Normalized	Time (min)	Control DO	Normalized Control	50 ppm DO	50 ppm Normalized
40.86	4.217	0.5408	4.627	0.583	40.859	4.839	0.63255	5.53	0.6957	40.761	2.117	0.27558	4.625	0.5849
40.96	4.21	0.54	4.603	0.58	40.96	4.828	0.63111	5.54	0.6969	40.861	2.102	0.27363	4.615	0.5837
41.061	4.205	0.5393	4.602	0.5799	41.06	4.815	0.62941	5.524	0.6949	40.962	2.087	0.27167	4.613	0.5834
41.16	4.186	0.5369	4.574	0.5764	41.16	4.808	0.6285	5.514	0.6937	41.062	2.07	0.26946	4.591	0.5806
41.26	4.189	0.5373	4.588	0.5781	41.26	4.801	0.62758	5.513	0.6935	41.161	2.055	0.26751	4.586	0.58
41.361	4.173	0.5352	4.585	0.5777	41.36	4.8	0.62745	5.508	0.6929	41.262	2.039	0.26543	4.585	0.5799
41.46	4.166	0.5343	4.561	0.5747	41.461	4.791	0.62627	5.509	0.693	41.362	2.024	0.26347	4.59	0.5805
41.561	4.159	0.5334	4.574	0.5764	41.56	4.791	0.62627	5.502	0.6922	41.462	2.016	0.26243	4.585	0.5799
41.661	4.156	0.533	4.585	0.5777	41.661	4.783	0.62523	5.486	0.6901	41.562	1.995	0.2597	4.559	0.5766
41.761	4.149	0.5321	4.563	0.575	41.761	4.774	0.62405	5.482	0.6896	41.662	1.979	0.25762	4.546	0.5749
41.861	4.134	0.5302	4.529	0.5707	41.861	4.771	0.62366	5.467	0.6878	41.763	1.963	0.25553	4.553	0.5758
41.961	4.129	0.5296	4.515	0.5689	41.961	4.768	0.62327	5.474	0.6886	41.862	1.948	0.25358	4.547	0.5751
42.061	4.13	0.5297	4.519	0.5694	42.061	4.754	0.62144	5.469	0.688	41.963	1.936	0.25202	4.541	0.5743
42.162	4.108	0.5269	4.534	0.5713	42.162	4.752	0.62118	5.45	0.6856	42.063	1.916	0.24941	4.529	0.5728
42.262	4.102	0.5261	4.505	0.5677	42.262	4.746	0.62039	5.453	0.686	42.163	1.899	0.2472	4.522	0.5719
42.362	4.098	0.5256	4.527	0.5704	42.361	4.742	0.61987	5.447	0.6852	42.263	1.886	0.24551	4.519	0.5715
42.462	4.081	0.5234	4.519	0.5694	42.462	4.739	0.61948	5.453	0.686	42.363	1.865	0.24278	4.509	0.5703
42.562	4.075	0.5226	4.525	0.5702	42.562	4.724	0.61752	5.433	0.6835	42.464	1.852	0.24108	4.495	0.5685
42.662	4.059	0.5206	4.5	0.567	42.662	4.722	0.61725	5.433	0.6835	42.564	1.833	0.23861	4.478	0.5663
42.762	4.054	0.5199	4.475	0.5639	42.762	4.71	0.61569	5.421	0.682	42.664	1.818	0.23666	4.483	0.567
42.863	4.041	0.5183	4.451	0.5609	42.862	4.705	0.61503	5.42	0.6818	42.764	1.806	0.2351	4.458	0.5638
42.963	4.029	0.5167	4.478	0.5643	42.963	4.702	0.61464	5.423	0.6822	42.864	1.786	0.23249	4.465	0.5647
43.062	4.024	0.5161	4.454	0.5612	43.062	4.69	0.61307	5.426	0.6826	42.965	1.772	0.23067	4.468	0.5651
43.163	4.014	0.5148	4.426	0.5577	43.162	4.692	0.61333	5.396	0.6788	43.064	1.754	0.22833	4.458	0.5638
43.263	4.009	0.5142	4.412	0.5559	43.263	4.68	0.61176	5.391	0.6782	43.165	1.735	0.22585	4.46	0.5641
43.364	3.998	0.5128	4.416	0.5565	43.363	4.676	0.61124	5.399	0.6792	43.265	1.727	0.22481	4.448	0.5625
43.464	3.985	0.5111	4.449	0.5606	43.464	4.67	0.61046	5.401	0.6795	43.365	1.705	0.22195	4.431	0.5604
43.564	3.98	0.5105	4.441	0.5596	43.563	4.654	0.60837	5.382	0.6771	43.465	1.691	0.22012	4.397	0.5561
43.664	3.965	0.5085	4.411	0.5558	43.663	4.654	0.60837	5.371	0.6757	43.565	1.678	0.21843	4.405	0.5571
43.764	3.956	0.5074	4.426	0.5577	43.764	4.648	0.60758	5.36	0.6743	43.666	1.661	0.21622	4.4	0.5565
43.864	3.941	0.5055	4.394	0.5537	43.863	4.648	0.60758	5.359	0.6742	43.766	1.642	0.21375	4.399	0.5563
43.964	3.936	0.5048	4.38	0.5519	43.964	4.631	0.60536	5.352	0.6733	43.865	1.627	0.21179	4.394	0.5557

Table K.2a. Cd column DO and normalized DO for OUR experiments.

Time (min)	Control DO	Normalized Control	5 ppm DO	5 ppm Normalized	Time (min)	10ppm DO	10 ppm Cd Normalized	25 ppm DO	25 ppm Cd Normalized	Time (min)	Control DO	Normalized Control	50 ppm DO	50 ppm Normalized
44.065	3.931	0.5042	4.426	0.5577	44.064	4.629	0.6051	5.347	0.6727	44.064	1.608	0.20932	4.389	0.5551
44.165	3.924	0.5033	4.389	0.553	44.164	4.621	0.60405	5.355	0.6737	44.066	1.6	0.20828	4.372	0.5529
44.264	3.916	0.5022	4.375	0.5513	44.264	4.619	0.60379	5.349	0.6729	44.167	1.578	0.20542	4.367	0.5523
44.365	3.909	0.5013	4.338	0.5466	44.364	4.609	0.60248	5.335	0.6712	44.266	1.559	0.20294	4.358	0.5512
44.465	3.897	0.4998	4.351	0.5483	44.465	4.599	0.60118	5.332	0.6708	44.366	1.546	0.20125	4.341	0.549
44.565	3.887	0.4985	4.353	0.5485	44.565	4.593	0.60039	5.335	0.6712	44.467	1.532	0.19943	4.333	0.548
44.666	3.872	0.4966	4.326	0.5451	44.665	4.588	0.59974	5.342	0.672	44.567	1.517	0.19747	4.334	0.5481
44.765	3.868	0.4961	4.328	0.5454	44.765	4.582	0.59895	5.311	0.6681	44.667	1.502	0.19552	4.312	0.5453
44.866	3.858	0.4948	4.323	0.5447	44.865	4.575	0.59804	5.288	0.6652	44.767	1.483	0.19305	4.314	0.5456
44.966	3.85	0.4938	4.296	0.5413	44.966	4.568	0.59712	5.279	0.6641	44.867	1.466	0.19084	4.301	0.5439
45.065	3.841	0.4926	4.329	0.5455	45.065	4.566	0.59686	5.301	0.6669	44.967	1.449	0.18862	4.299	0.5437
45.166	3.831	0.4913	4.336	0.5464	45.165	4.553	0.59516	5.288	0.6652	45.067	1.434	0.18667	4.292	0.5428
45.266	3.821	0.4901	4.316	0.5439	45.266	4.553	0.59516	5.278	0.664	45.168	1.422	0.18511	4.291	0.5427
45.367	3.816	0.4894	4.285	0.5399	45.366	4.541	0.59359	5.276	0.6637	45.268	1.417	0.18446	4.284	0.5418
45.466	3.801	0.4875	4.285	0.5399	45.466	4.531	0.59229	5.274	0.6635	45.368	1.417	0.18446	4.279	0.5412
45.566	3.804	0.4879	4.241	0.5344	45.566	4.528	0.5919	5.269	0.6629	45.468	1.39	0.18094	4.245	0.5369
45.667	3.794	0.4866	4.263	0.5372	45.666	4.516	0.59033	5.273	0.6634	45.568	1.38	0.17964	4.255	0.5381
45.767	3.784	0.4853	4.235	0.5336	45.767	4.509	0.58941	5.252	0.6607	45.669	1.362	0.1773	4.236	0.5357
45.868	3.774	0.484	4.253	0.5359	45.867	4.512	0.5898	5.244	0.6597	45.769	1.341	0.17456	4.24	0.5362
45.967	3.765	0.4829	4.282	0.5396	45.967	4.502	0.5885	5.242	0.6595	45.868	1.326	0.17261	4.211	0.5326
46.067	3.755	0.4816	4.267	0.5377	46.067	4.492	0.58719	5.234	0.6584	45.969	1.307	0.17014	4.211	0.5326
46.168	3.743	0.4801	4.241	0.5344	46.167	4.487	0.58654	5.237	0.6588	46.069	1.287	0.16753	4.213	0.5328
46.268	3.73	0.4784	4.236	0.5338	46.268	4.485	0.58627	5.229	0.6578	46.169	1.274	0.16584	4.209	0.5323
46.368	3.718	0.4769	4.182	0.527	46.367	4.479	0.58549	5.229	0.6578	46.269	1.252	0.16298	4.211	0.5326
46.468	3.708	0.4756	4.199	0.5291	46.468	4.458	0.58275	5.21	0.6554	46.37	1.24	0.16142	4.189	0.5298
46.568	3.698	0.4743	4.199	0.5291	46.568	4.463	0.5834	5.205	0.6548	46.47	1.22	0.15881	4.179	0.5285
46.668	3.689	0.4731	4.179	0.5266	46.667	4.457	0.58261	5.21	0.6554	46.569	1.198	0.15595	4.179	0.5285
46.768	3.679	0.4718	4.199	0.5291	46.768	4.453	0.58209	5.203	0.6545	46.67	1.186	0.15439	4.179	0.5285
46.869	3.669	0.4706	4.201	0.5294	46.868	4.445	0.58105	5.191	0.653	46.77	1.167	0.15191	4.171	0.5275
46.969	3.671	0.4708	4.159	0.5241	46.969	4.436	0.57987	5.186	0.6524	46.871	1.155	0.15035	4.147	0.5245
47.069	3.649	0.468	4.181	0.5268	47.069	4.426	0.57856	5.198	0.6539	46.971	1.133	0.14749	4.143	0.524
47.169	3.633	0.4659	4.162	0.5244	47.168	4.421	0.57791	5.176	0.6512	47.07	1.118	0.14554	4.147	0.5245

Table K.2a. Cd column DO and normalized DO for OUR experiments.

Time (min)	Control DO	Normalized Control	5 ppm DO	5 ppm Normalized	Time (min)	10ppm DO	10ppm Cd DO	10 ppm Normalized	25 ppm DO	25 ppm Cd DO	25 ppm Normalized	Time (min)	Control DO	Normalized Control	50 ppm DO	50 ppm Normalized
47.269	3.633	0.4659	4.171	0.5256	47.269	4.416	0.57725	5.168	0.6501	47.269	4.416	47.269	1.101	0.14332	4.127	0.5219
47.37	3.625	0.4649	4.154	0.5234	47.369	4.406	0.57595	5.173	0.6508	47.369	4.406	47.369	1.083	0.14098	4.12	0.5211
47.469	3.613	0.4634	4.165	0.5248	47.468	4.399	0.57503	5.171	0.6505	47.468	4.399	47.468	1.067	0.1389	4.111	0.5199
47.569	3.603	0.4621	4.137	0.5213	47.569	4.394	0.57438	5.151	0.648	47.569	4.394	47.569	1.047	0.13629	4.103	0.5189
47.67	3.589	0.4603	4.15	0.5229	47.669	4.391	0.57399	5.153	0.6483	47.669	4.391	47.669	1.029	0.13395	4.116	0.5206
47.77	3.581	0.4593	4.14	0.5217	47.77	4.384	0.57307	5.148	0.6476	47.77	4.384	47.77	1.015	0.13213	4.079	0.5159
47.869	3.574	0.4584	4.12	0.5192	47.869	4.377	0.57216	5.137	0.6462	47.869	4.377	47.869	0.996	0.12965	4.081	0.5161
47.97	3.566	0.4574	4.101	0.5168	47.969	4.367	0.57085	5.146	0.6474	47.969	4.367	47.969	0.981	0.1277	4.088	0.517
48.07	3.557	0.4562	4.11	0.5179	48.07	4.367	0.57085	5.12	0.6441	48.07	4.367	48.07	0.968	0.12601	4.078	0.5157
48.171	3.556	0.4561	4.127	0.52	48.17	4.357	0.56954	5.107	0.6425	48.17	4.357	48.17	0.949	0.12354	4.067	0.5144
48.27	3.537	0.4536	4.086	0.5149	48.271	4.326	0.56549	5.105	0.6422	48.271	4.326	48.271	0.934	0.12158	4.059	0.5133
48.37	3.534	0.4533	4.091	0.5155	48.37	4.279	0.55935	5.105	0.6422	48.37	4.279	48.37	0.914	0.11898	4.057	0.5131
48.471	3.522	0.4517	4.067	0.5125	48.47	4.298	0.56183	5.1	0.6416	48.47	4.298	48.47	0.898	0.1169	4.039	0.5108
48.571	3.513	0.4506	4.089	0.5152	48.571	4.264	0.55739	5.098	0.6413	48.571	4.264	48.571	0.883	0.11494	4.029	0.5095
48.671	3.503	0.4493	4.084	0.5146	48.671	4.235	0.55359	5.087	0.64	48.671	4.235	48.671	0.865	0.1126	4.015	0.5078
48.771	3.49	0.4476	4.067	0.5125	48.771	4.281	0.55961	5.073	0.6382	48.771	4.281	48.771	0.851	0.11078	4.02	0.5084
48.871	3.478	0.4461	4.049	0.5102	48.871	4.107	0.53686	5.073	0.6382	48.871	4.107	48.871	0.832	0.10831	3.996	0.5054
48.972	3.483	0.4467	4.04	0.5091	48.971	4.211	0.55046	5.077	0.6387	48.971	4.211	48.971	0.814	0.10596	4.018	0.5082
49.071	3.469	0.4449	4.066	0.5123	49.071	4.203	0.54941	5.071	0.6379	49.071	4.203	49.071	0.8	0.10414	3.996	0.5054
49.172	3.458	0.4435	4.054	0.5108	49.171	4.196	0.5485	5.066	0.6373	49.171	4.196	49.171	0.78	0.10154	3.976	0.5028
49.272	3.446	0.442	4.032	0.5081	49.272	4.201	0.54915	5.06	0.6366	49.272	4.201	49.272	0.767	0.09984	3.978	0.5031
49.372	3.429	0.4398	4.034	0.5083	49.372	4.198	0.54876	5.055	0.6359	49.372	4.198	49.372	0.748	0.09737	3.963	0.5012
49.472	3.425	0.4393	4.029	0.5077	49.472	4.188	0.54745	5.056	0.6361	49.472	4.188	49.472	0.729	0.0949	3.963	0.5012
49.572	3.419	0.4385	4.001	0.5042	49.572	4.181	0.54654	5.051	0.6354	49.572	4.181	49.572	0.718	0.09347	3.958	0.5006
49.673	3.41	0.4373	3.99	0.5028	49.672	4.168	0.54484	5.024	0.632	49.672	4.168	49.672	0.697	0.09073	3.941	0.4984
49.773	3.4	0.4361	3.961	0.4991	49.773	4.164	0.54431	5.029	0.6327	49.773	4.164	49.773	0.682	0.08878	3.939	0.4982
49.873	3.39	0.4348	3.998	0.5038	49.873	4.162	0.54405	5.017	0.6311	49.873	4.162	49.873	0.667	0.08683	3.917	0.4954
49.973	3.383	0.4339	3.961	0.4991	49.972	4.154	0.54301	5.012	0.6305	49.972	4.154	49.972	0.65	0.08461	3.893	0.4923
50.073	3.376	0.433	3.974	0.5008	50.073	4.159	0.54366	5.007	0.6299	50.073	4.159	50.073	0.636	0.08279	3.897	0.4929
50.174	3.353	0.43	3.949	0.4976	50.173	4.149	0.54235	4.999	0.6289	50.173	4.149	50.173	0.614	0.07993	3.912	0.4948
50.273	3.356	0.4304	3.924	0.4945	50.273	4.135	0.54052	5.006	0.6298	50.273	4.135	50.273	0.598	0.07784	3.887	0.4916
50.373	3.339	0.4282	3.954	0.4982	50.373	4.134	0.54039	4.994	0.6283	50.373	4.134	50.373	0.586	0.07628	3.895	0.4926

Table K.2a. Cd column DO and normalized DO for OUR experiments.

Time (min)	Control DO	Normalized Control	5 ppm DO	5 ppm Normalized
50.474	3.338	0.4281	3.941	0.4966
50.574	3.326	0.4266	3.941	0.4966
50.674	3.314	0.425	3.92	0.494
50.774	3.307	0.4241	3.937	0.4961
50.875	3.292	0.4222	3.919	0.4938
50.974	3.29	0.422	3.932	0.4955
51.074	3.278	0.4204	3.888	0.4899
51.175	3.27	0.4194	3.885	0.4895
51.275	3.26	0.4181	3.897	0.4911
51.375	3.25	0.4168	3.883	0.4893
51.475	3.241	0.4157	3.858	0.4861
51.575	3.234	0.4148	3.871	0.4878
51.676	3.221	0.4131	3.848	0.4849
51.776	3.209	0.4116	3.843	0.4842
51.875	3.206	0.4112	3.824	0.4819
51.976	3.189	0.409	3.817	0.481
52.076	3.185	0.4085	3.809	0.48
52.176	3.18	0.4078	3.821	0.4815
52.276	3.17	0.4066	3.816	0.4808
52.377	3.163	0.4057	3.826	0.4821
52.477	3.152	0.4043	3.81	0.4801
52.576	3.147	0.4036	3.8	0.4788
52.677	3.138	0.4025	3.76	0.4738
52.777	3.13	0.4014	3.777	0.4759
52.878	3.118	0.3999	3.844	0.4844
52.978	3.103	0.398	3.858	0.4861
53.077	3.092	0.3966		
53.178	3.076	0.3945		
53.278	3.065	0.3931		
53.377	3.057	0.3921		
53.478				
53.578				
53.679				
53.778				

Time (min)	10ppm DO	10 ppm Cd Normalized	25 ppm DO	25 ppm Cd Normalized
50.474	4.129	0.53974	4.98	0.6265
50.574	4.118	0.5383	5.004	0.6295
50.674	4.117	0.53817	5.004	0.6295
50.774	4.11	0.53725	4.992	0.628
50.874	4.108	0.53699	4.978	0.6262
50.975	4.09	0.53464	4.957	0.6236
51.074	4.097	0.53556	4.95	0.6227
51.174	4.088	0.53438	4.943	0.6218
51.275	4.083	0.53373	4.94	0.6215
51.375	4.073	0.53242	4.951	0.6228
51.475	4.071	0.53216	4.941	0.6216
51.575	4.061	0.53085	4.929	0.6201
51.675	4.088	0.53438	4.94	0.6215
51.776	4.127	0.53948	4.924	0.6194
51.875	4.103	0.53634	4.913	0.6181
51.976	4.09	0.53464	4.897	0.6161
52.076	4.08	0.53333	4.914	0.6182
52.176	4.069	0.5319	4.897	0.6161
52.276	4.049	0.52928	4.894	0.6157
52.376	4.054	0.52993	4.887	0.6148
52.477	4.049	0.52928	4.884	0.6144
52.577	4.044	0.52863	4.88	0.6139
52.676	4.036	0.52758	4.869	0.6125
52.777	4.031	0.52693	4.86	0.6114
52.877	4.02	0.52549	4.852	0.6104
52.978	4.015	0.52484	4.842	0.6091
53.077	4.014	0.52471	4.852	0.6104
53.177	4.007	0.52379	4.833	0.608
53.278	4	0.52288	4.818	0.6061
53.378	3.987	0.52118	4.831	0.6077
53.478	3.976	0.51974	4.821	0.6065
53.578	3.968	0.51869	4.809	0.605
53.678	3.956	0.51712	4.804	0.6044
53.778	3.965	0.5183	4.808	0.6049

Time (min)	Control DO	Normalized Control	50 ppm DO	50 ppm Normalized
50.376	0.565	0.07355	3.883	0.4911
50.476	0.55	0.0716	3.887	0.4916
50.576	0.532	0.06925	3.859	0.488
50.676	0.515	0.06704	3.853	0.4873
50.777	0.501	0.06522	3.865	0.4888
50.877	0.483	0.06287	3.851	0.487
50.977	0.469	0.06105	3.838	0.4854
51.077	0.45	0.05858	3.822	0.4834
51.177	0.434	0.0565	3.816	0.4826
51.278	0.422	0.05493	3.792	0.4796
51.377	0.401	0.0522	3.807	0.4815
51.477	0.383	0.04986	3.804	0.4811
51.578	0.369	0.04803	3.785	0.4787
51.678	0.352	0.04582	3.79	0.4793
51.778	0.341	0.04439	3.761	0.4757
51.878	0.322	0.04192	3.745	0.4736
51.978	0.303	0.03944	3.75	0.4743
52.079	0.292	0.03801	3.755	0.4749
52.178	0.271	0.03528	3.726	0.4712
52.279	0.259	0.03372	3.726	0.4712
52.379	0.239	0.03111	3.719	0.4703
52.479	0.222	0.0289	3.706	0.4687
52.579	0.21	0.02734	3.697	0.4676
52.679	0.195	0.02538	3.672	0.4644
52.78	0.182	0.02369	3.677	0.465
52.88	0.163	0.02122	3.682	0.4657
52.98	0.146	0.01901	3.668	0.4639
53.08	0.136	0.0177	3.667	0.4638
53.18	0.123	0.01601	3.647	0.4612
53.28	0.107	0.01393	3.653	0.462
53.38	0.101	0.01315	3.647	0.4612
53.481	0.095	0.01237	3.635	0.4597
53.581	0.09	0.01172	3.623	0.4582
53.681	0.085	0.01106	3.619	0.4577

Table K.2a. Cd column DO and normalized DO for OUR experiments.

Time (min)	10ppm Cd DO	10 ppm Normalized DO	25 ppm Cd DO	25 ppm Normalized DO	50 ppm Normalized DO
53.878	3.949	0.51621	4.789	0.6025	3.614
53.979	3.939	0.5149	4.789	0.6025	3.603
54.079	3.936	0.51451	4.787	0.6022	3.594
54.179	3.924	0.51294	4.769	0.5999	3.586
54.279	3.933	0.51412	4.772	0.6003	3.572
54.379	3.911	0.51124	4.767	0.5997	3.567
54.48	3.902	0.51007	4.742	0.5966	3.569
54.579	3.904	0.51033	4.75	0.5976	3.56
54.679	3.899	0.50967	4.757	0.5984	3.548
54.78	3.88	0.50719	4.745	0.5969	3.528
54.88	3.868	0.50562	4.74	0.5963	3.513
54.98	3.87	0.50588	4.725	0.5944	3.523
55.08	3.856	0.50405	4.72	0.5938	3.503
55.18	3.855	0.50392	4.716	0.5933	3.506
55.281	3.845	0.50261	4.722	0.594	3.488
55.381	3.829	0.50052	4.716	0.5933	3.493
55.481	3.84	0.50196	4.71	0.5925	3.476
55.581	3.818	0.49908	4.706	0.592	3.469
55.681	3.816	0.49882	4.693	0.5904	3.454
55.782	3.813	0.49843	4.683	0.5891	3.455
55.881	3.806	0.49752	4.673	0.5879	3.454
55.982	3.804	0.49725	4.659	0.5861	3.439
56.082	3.794	0.49595	4.662	0.5865	3.422
56.181	3.774	0.49333	4.661	0.5864	3.417
56.282	3.777	0.49373	4.652	0.5852	3.412
56.382	3.765	0.49216	4.645	0.5844	3.412
56.483	3.758	0.49124	4.644	0.5842	3.405
56.583	3.76	0.4915	4.634	0.583	3.393
56.682	3.747	0.4898	4.635	0.5831	3.381
56.783	3.743	0.48928	4.63	0.5825	3.388
56.883	3.731	0.48771	4.613	0.5803	3.383
56.982	3.73	0.48758	4.615	0.5806	3.351
					3.366
					0.4257

Table K.2a. Cd column DO and normalized DO for OUR experiments.

Time (min)	10ppm Cd DO	10 ppm Normalized DO	25 ppm Cd DO	25 ppm Normalized DO	50 ppm Normalized DO
57.083	3.725	0.48693	4.612	0.5802	3.346
57.183	3.709	0.48484	4.605	0.5793	3.346
57.284	3.699	0.48353	4.607	0.5796	3.334
57.383	3.704	0.48418	4.595	0.5781	3.317
57.484	3.693	0.48275	4.581	0.5763	3.329
57.584	3.682	0.48131	4.578	0.5759	3.317
57.684	3.674	0.48026	4.578	0.5759	3.308
57.785	3.671	0.47987	4.559	0.5735	3.302
57.884	3.677	0.48065	4.569	0.5748	3.29
57.985	3.655	0.47778	4.556	0.5732	3.283
58.085	3.65	0.47712	4.556	0.5732	3.276
58.185	3.637	0.47542	4.551	0.5725	3.268
58.285	3.64	0.47582	4.537	0.5708	3.251
58.385	3.63	0.47451	4.537	0.5708	3.244
58.485	3.622	0.47346	4.527	0.5695	3.236
58.585	3.618	0.47294	4.517	0.5682	3.229
58.685	3.615	0.47255	4.51	0.5674	3.229
58.786	3.605	0.47124	4.495	0.5655	3.219
58.886	3.591	0.46941	4.503	0.5665	3.197
58.986	3.586	0.46876	4.495	0.5655	3.195
59.086	3.578	0.46771	4.493	0.5652	3.185
59.186	3.581	0.4681	4.49	0.5649	3.188
59.287	3.569	0.46654	4.485	0.5642	3.177
59.387	3.559	0.46523	4.473	0.5627	3.161
59.486	3.552	0.46431	4.47	0.5623	3.163
59.587	3.54	0.46275	4.461	0.5612	3.155
59.687	3.539	0.46261	4.456	0.5606	3.146
59.787	3.532	0.4617	4.448	0.5596	3.144
59.887	3.523	0.46052	4.453	0.5602	3.129
59.987	3.517	0.45974	4.429	0.5572	3.129
60.088	3.507	0.45843	4.422	0.5563	3.107
60.187	3.502	0.45778	4.422	0.5563	3.099

Table K.2a. Cd column DO and normalized DO for OUR experiments.

Time (min)	10ppm Cd DO	10 ppm Normalized	25 ppm Cd DO	25 ppm Normalized	50 ppm Normalized
60.288	3.493	0.4566	4.421	0.5562	0.3904
60.388	3.502	0.45778	4.414	0.5553	0.3891
60.488	3.488	0.45595	4.397	0.5532	0.388
60.588	3.481	0.45503	4.409	0.5547	0.388
60.688	3.464	0.45281	4.405	0.5542	0.3867
60.788	3.469	0.45346	4.395	0.5529	0.3857
60.889	3.456	0.45176	4.372	0.55	0.3845
60.988	3.456	0.45176	4.373	0.5501	0.3852
61.089	3.449	0.45085	4.368	0.5495	0.3827
61.189	3.441	0.4498	4.363	0.5489	0.3811
61.289	3.431	0.4485	4.367	0.5494	0.3804
61.389	3.432	0.44863	4.36	0.5485	0.379
61.489	3.417	0.44667	4.345	0.5466	0.3776
61.59	3.419	0.44693	4.341	0.5461	0.3774
61.69	3.407	0.44536	4.333	0.5451	0.3778
61.79	3.402	0.44471	4.338	0.5457	0.3756
61.89	3.395	0.44379	4.334	0.5452	0.3742
61.99	3.385	0.44248	4.321	0.5436	0.374
62.09	3.376	0.44131	4.311	0.5423	0.3733
62.19	3.37	0.44052	4.294	0.5402	0.3718
62.29	3.358	0.43895	4.294	0.5402	0.369
62.391	3.354	0.43843	4.287	0.5393	0.369
62.491	3.356	0.43869	4.282	0.5387	0.3684
62.59	3.339	0.43647	4.279	0.5383	0.3669
62.691	3.339	0.43647	4.28	0.5384	0.3663
62.791	3.332	0.43556	4.277	0.5381	0.3626
62.892	3.319	0.43386	4.277	0.5381	0.3628
62.991	3.319	0.43386	4.253	0.535	0.3626
63.091	3.309	0.43255	4.243	0.5338	0.3617
63.192	3.294	0.43059	4.245	0.534	0.3607
63.292	3.294	0.43059	4.235	0.5328	0.3588
63.392	3.285	0.42941	4.235	0.5328	0.3582

Table K.2a. Cd column DO and normalized DO for OUR experiments.

Time (min)	10ppm Cd DO	10 ppm Normalized DO	25 ppm Cd DO	25 ppm Normalized DO	50 ppm Normalized DO
63.492	3.285	0.42941	4.223	0.5313	2.822
63.592	3.278	0.4285	4.22	0.5309	2.815
63.693	3.267	0.42706	4.208	0.5294	2.818
63.792	3.258	0.42588	4.199	0.5282	2.805
63.893	3.246	0.42431	4.198	0.5281	2.778
63.993	3.253	0.42523	4.192	0.5274	2.791
64.093	3.238	0.42327	4.194	0.5276	2.779
64.193	3.233	0.42261	4.194	0.5276	2.768
64.293	3.221	0.42105	4.174	0.5251	2.759
64.393	3.219	0.42078	4.176	0.5253	2.754
64.494	3.207	0.41922	4.165	0.524	2.754
64.593	3.206	0.41908	4.16	0.5233	2.73
64.694	3.19	0.41699	4.155	0.5227	2.725
64.794	3.187	0.4166	4.147	0.5217	2.707
64.894	3.184	0.41621	4.133	0.5199	2.713
64.994	3.167	0.41399	4.13	0.5196	2.702
65.094	3.169	0.41425	4.128	0.5193	2.683
65.195	3.16	0.41307	4.12	0.5183	2.685
65.295	3.158	0.41281	4.111	0.5172	2.668
65.394	3.145	0.41111	4.115	0.5177	2.664
65.495	3.136	0.40993	4.106	0.5165	2.661
65.595	3.133	0.40954	4.1	0.5158	2.649
65.695	3.116	0.40732	4.094	0.515	2.632
65.795	3.116	0.40732	4.084	0.5138	2.641
65.895	3.103	0.40562	4.083	0.5136	2.627
65.996	3.104	0.40575	4.086	0.514	2.61
66.096	3.094	0.40444	4.074	0.5125	2.602
66.195	3.089	0.40379	4.072	0.5123	2.6
66.296	3.072	0.40157	4.056	0.5103	2.593
66.396	3.069	0.40118	4.047	0.5091	2.583
66.496	3.06	0.4	4.037	0.5079	2.571
66.596	3.052	0.39895	4.029	0.5069	2.566

Table K.2a. Cd column DO and normalized DO for OUR experiments.

Time (min)	10ppm Cd DO	10 ppm Normalized	25 ppm Cd DO	25 ppm Normalized	50 ppm Normalized
66.696	3.037	0.39699	4.034	0.5075	0.3238
66.797	3.04	0.39739	4.034	0.5075	0.3217
66.896	3.025	0.39542	4.013	0.5048	0.3201
66.997	3.02	0.39477	4.012	0.5047	0.3198
67.097	3.015	0.39412	4.005	0.5038	0.3197
67.197	3.008	0.3932	4.007	0.5041	0.3186
67.298	3.003	0.39255	3.995	0.5026	0.3162
67.397	2.996	0.39163	3.983	0.5011	0.3158
67.498	2.994	0.39137	3.985	0.5013	0.3154
67.598	2.978	0.38928	3.971	0.4996	0.3134
67.698	2.969	0.3881	3.973	0.4998	0.3128
67.798	2.957	0.38654	3.951	0.497	0.3121
67.898	2.952	0.38588	3.956	0.4977	0.3114
67.999	2.944	0.38484	3.954	0.4974	0.3109
68.099	2.937	0.38392	3.927	0.494	0.3083
68.198	2.932	0.38327	3.934	0.4949	0.3072
68.299	2.928	0.38275	3.939	0.4955	0.3066
68.399	2.918	0.38144	3.924	0.4936	0.3053
68.499	2.913	0.38078	3.917	0.4928	0.3047
68.599	2.9	0.37908	3.914	0.4924	0.3047
68.699	2.891	0.37791	3.91	0.4919	0.3047
68.8	2.886	0.37725	3.903	0.491	0.3047
68.899	2.885	0.37712	3.898	0.4904	0.3047
69	2.873	0.37556	3.885	0.4887	0.3047
69.1	2.876	0.37595	3.88	0.4881	0.3047
69.2	2.864	0.37438	3.878	0.4879	0.3047
69.3	2.851	0.37268	3.87	0.4869	0.3047
69.4	2.851	0.37268	3.863	0.486	0.3047
69.501	2.841	0.37137	3.851	0.4845	0.3047
69.601	2.837	0.37085	3.843	0.4835	0.3047
69.701	2.842	0.3715	3.846	0.4838	0.3047
69.801	2.825	0.36928	3.843	0.4835	0.3047

Table K.2a. Cd column DO and normalized DO for OUR experiments.

Time (min)	10ppm Cd DO	10 ppm Normalized	25 ppm Cd DO	25 ppm Normalized
69.901	2.817	0.36824	3.836	0.4826
70.002	2.817	0.36824	3.821	0.4807
70.102	2.808	0.36706	3.817	0.4802
70.201	2.805	0.36667	3.816	0.4801
70.302	2.795	0.36536	3.812	0.4796
70.402	2.783	0.36379	3.802	0.4783
70.503	2.773	0.36248	3.785	0.4762
70.602	2.765	0.36144	3.792	0.477
70.702	2.754	0.36	3.78	0.4755
70.803	2.748	0.35922	3.773	0.4747
70.902	2.743	0.35856	3.76	0.473
71.003	2.734	0.35739	3.751	0.4719
71.103	2.721	0.35569	3.758	0.4728
71.203	2.712	0.35451	3.743	0.4709
71.303	2.704	0.35346	3.728	0.469
71.403	2.695	0.35229	3.721	0.4681
71.504	2.685	0.35098	3.721	0.4681
71.604	2.68	0.35033	3.723	0.4684
71.704	2.665	0.34837	3.711	0.4669
71.804	2.666	0.3485	3.709	0.4666
71.904	2.653	0.3468	3.702	0.4657
72.005	2.65	0.34641	3.69	0.4642
72.104	2.646	0.34588	3.692	0.4645
72.204	2.628	0.34353	3.69	0.4642
72.305	2.623	0.34288	3.672	0.4619
72.405	2.617	0.34209	3.672	0.4619
72.505	2.609	0.34105	3.657	0.4601
72.605	2.624	0.34301	3.655	0.4598
72.705	2.599	0.33974	3.652	0.4594
72.806	2.594	0.33908	3.65	0.4592
72.906	2.584	0.33778	3.633	0.457
73.005	2.582	0.33752	3.628	0.4564

Table K.2a. Cd column DO and normalized DO for OUR experiments.

Time (min)	10ppm Cd DO	10 ppm Normalized DO	25 ppm Cd DO	25 ppm Normalized DO
73.106	2.568	0.33569	3.619	0.4553
73.206	2.562	0.3349	3.613	0.4545
73.306	2.553	0.33373	3.614	0.4546
73.406	2.545	0.33268	3.611	0.4543
73.506	2.533	0.33111	3.604	0.4534
73.607	2.526	0.3302	3.596	0.4524
73.706	2.519	0.32928	3.589	0.4515
73.807	2.514	0.32863	3.581	0.4505
73.907	2.501	0.32693	3.576	0.4499
74.007	2.484	0.32471	3.565	0.4485
74.107	2.482	0.32444	3.567	0.4487
	2.481	0.32431	3.55	0.4466
	2.475	0.32353	3.552	0.4468
	2.462	0.32183	3.538	0.4451
	2.455	0.32092	3.533	0.4445
	2.447	0.31987	3.532	0.4443
	2.443	0.31935	3.528	0.4438
	2.432	0.31791	3.52	0.4428