Week	Comp Sample Start Date	Flow (gpm)			Flow (gpm/SF)			Alkalinity (as HCO_3) Concentration (mg/L)				Percent Removal			
		BIOSTYR	BIOFOR C	BIOFOR N	BIOSTYR	BIOFOR C	BIOFOR N	13-Inf	13-BSEff	13-BFCEff	13-BFNEff	BIOSTYR	Biofor C	Biofor N	2-Stage
1	23-Feb-04		6.55	6.91		2.08	3.91	224		180	96.2		19.6%	46.6%	57.1%
1	24-Feb-04		8.65	8.19		2.75	4.63	244		200	117		18.0%	41.5%	52.0%
1	25-Feb-04		8.14	7.90		2.59	4.47	264		209	111		20.8%	46.9%	58.0%
1	27-Feb-04		8.65	8.28		2.75	4.68	243		230	190		5.3%	17.4%	21.8%
1	28-Feb-04		8.77	7.70		2.79	4.36	246		241	182		2.0%	24.5%	26.0%
1	29-Feb-04		9.00	7.00		2.86	3.96	249		240	175		3.6%	27.1%	29.7%
2	1-Mar-04		8.24	7.17		2.62	4.06	256		248	163		3.1%	34.3%	36.3%
2	2-Mar-04		8.70	7.57		2.77	4.28	250		245	165		2.0%	32.7%	34.0%
2	3-Mar-04		8.72	7.81		2.78	4.42	253		250	140		1.2%	44.0%	44.7%
2	4-Mar-04		8.86	8.42		2.82	4.76	261		254	135		2.7%	46.9%	48.3%
2	5-Mar-04		8.96	8.13		2.85	4.60	266		265	138		0.4%	47.9%	48.1%
2	6-Mar-04		8.99	8.06		2.86	4.56	262		260	137		0.8%	47.3%	47.7%
2	7-Mar-04		8.79	7.86		2.80	4.45	263		262	125		0.4%	52.3%	52.5%
3	8-Mar-04		7.78	8.06		2.48	4.56	262		258	136		1.5%	47.3%	48.1%
3	9-Mar-04		8.23	7.30		2.62	4.13	260		262	139		-0.8%	46.9%	46.5%
3	10-Mar-04		7.91	7.11		2.52	4.02	263		269	145		-2.3%	46.1%	44.9%
3	11-Mar-04		8.18	6.99		2.60	3.96	258		261	140		-1.2%	46.4%	45.7%
3	12-Mar-04		7.85	7.86		2.50	4.45	263		251	228		4.6%	9.2%	13.3%
3	13-Mar-04		8.24	6.35		2.62	3.59	249		254	265		-2.0%	-4.3%	-6.4%
3	14-Mar-04		8.20	6.66		2.61	3.77	248		245	247		1.2%	-0.8%	0.4%
4	15-Mar-04		8.26	3.46		2.63	1.96	261		256	263		1.9%	-2.7%	-0.8%
4	16-Mar-04		2.05	7.61		0.65	4.31	256		251	127		2.0%	49.4%	50.4%
4	17-Mar-04		8.05	7.17		2.56	4.06	252		246	109		2.4%	55.7%	56.7%
4	18-Mar-04		7.94	7.50		2.53	4.24	269		258	103		4.1%	60.1%	61.7%
4	19-Mar-04		7.86	4.93		2.50	2.79	262		254	88.6		3.1%	65.1%	66.2%
4	20-Mar-04		7.86	5.45		2.50	3.09	256		249	87.1		2.7%	65.0%	66.0%
4	21-Mar-04		8.13	4.77		2.59	2.70	251		256	78.7		-2.0%	69.3%	68.6%
5	22-Mar-04	7.05	8.04	4.72	1.91	2.56	2.67	260	253	255	81.6	2.7%	1.9%	68.0%	68.6%
5	23-Mar-04	9.00	8.00	6.61	2.43	2.54	3.74	260	256	257	163	1.5%	1.2%	36.6%	37.3%
5	24-Mar-04	8.97	8.37	6.80	2.42	2.66	3.85	258	255	258	101	1.2%	0.0%	60.9%	60.9%
5	25-Mar-04	9.00	7.84	6.80	2.43	2.50	3.85	250	239	247	96.8	4.4%	1.2%	60.8%	61.3%
5	26-Mar-04	9.07	7.47	7.09	2.45	2.38	4.01	257	252	254	82.6	1.9%	1.2%	67.5%	67.9%
5	27-Mar-04	9.00	7.27	7.08	2.43	2.31	4.00	261	251	253	71.3	3.8%	3.1%	71.8%	72.7%
5	28-Mar-04	9.00	8.08	6.97	2.43	2.57	3.94	259	245	249	67	5.4%	3.9%	73.1%	74.1%
6	29-Mar-04	9.00	8.07	6.18	2.43	2.57	3.50	267	257	244	155	3.7%	8.6%	36.5%	41.9%
6	30-Mar-04	9.90	7.91	6.51	2.68	2.52	3.68	264	255	261	82.4	3.4%	1.1%	68.4%	68.8%
6	31-Mar-04	8.50	7.51	6.03	2.30	2.39	3.41	251	248	248	58.9	1.2%	1.2%	76.3%	76.5%
6	1-Apr-04	8.20	7.37	6.49	2.22	2.35	3.67	254	238	250	58.4	6.3%	1.6%	76.6%	77.0%
6	2-Apr-04	9.40	7.39	6.52	2.54	2.35	3.69		243	251	67			73.3%	
6	3-Apr-04	9.00	7.87	6.88	2.43	2.51	3.89	255	245	257	73.1	3.9%	-0.8%	71.6%	71.3%
6	4-Apr-04	8.23	6.60	5.63	2.22	2.10	3.19	263	250	258	80	4.9%	1.9%	69.0%	69.6%
7	5-Apr-04	5.63	6.08	5.91	1.52	1.94	3.34	270	249	263	74.3	7.8%	2.6%	71.7%	72.5%
7	6-Apr-04	5.87	6.61	5.35	1.59	2.11	3.03	267	248	258	71.8	7.1%	3.4%	72.2%	73.1%
7	7-Apr-04	6.63	6.31	5.17	1.79	2.01	2.93	264	244	259	68.8	7.6%	1.9%	73.4%	73.9%
7	8-Apr-04	7.37	5.95	5.99	1.99	1.90	3.39	265	247	255	63.2	6.8%	3.8%	75.2%	76.2%
7	9-Apr-04	7.33	6.34	6.21	1.98	2.02	3.51	260	248	256	64.4	4.6%	1.5%	74.8%	75.2%
7	10-Apr-04	7.52	6.35	5.86	2.03	2.02	3.31	260	242	252	65.6	6.9%	3.1%	74.0%	74.8%
7	11-Apr-04	7.52	6.52	5.48	2.03	2.07	3.10	263	243	252	68.6	7.6%	4.2%	72.8%	73.9%
8	12-Apr-04	7.60	6.00	5.63	2.05	1.91	3.19	271	259	266	115	4.4%	1.8%	56.8%	57.6%
8	13-Apr-04	7.43	5.87	5.70	2.01	1.87	3.23	261	257	292	90.5	1.5%	-11.9%	69.0%	65.3%
8	14-Apr-04	7.50	6.23	5.26	2.03	1.98	2.98	262	253	266	223	3.4%	-1.5%	16.2%	14.9%
8	15-Apr-04	4.67	6.29	5.56	1.26	2.00	3.15	262	243	254		7.3%	3.1%		
8	16-Apr-04	7.57	6.19	5.62	2.05	1.97	3.18	259	248	259		4.2%	0.0%		
8	17-Apr-04	7.50	6.29	5.43	2.03	2.00	3.07	248	241	243		2.8%	2.0%		
8	18-Apr-04	7.54	6.23	5.44	2.04	1.98	3.08	247	239	250	256	3.2%	-1.2%	-2.4%	-3.6%
9	19-Apr-04	7.66	6.30	5.64	2.07	2.01	3.19	236	130	238	112	44.9%	-0.8%	52.9%	52.5%
9	20-Apr-04	7.53	6.24	5.68	2.04	1.99	3.21	250	243	243	82.7	2.8%	2.8%	66.0%	66.9%
9	21-Apr-04	7.50	6.16	5.52	2.03	1.96	3.12	258	248	257	84.7	3.9%	0.4%	67.0%	67.2%
9	22-Apr-04	7.57	6.25	5.10	2.05	1.99	2.89	266	257	260	68.8	3.4%	2.3%	73.5%	74.1%
9	23-Apr-04	7.45	5.99	5.63	2.01	1.91	3.19	259	245	253		5.4%	2.3%		
9	24-Apr-04	7.50	6.25	5.68	2.03	1.99	3.22	253	242	251	92.6	4.3%	0.8%	63.1%	63.4%
9	25-Apr-04	7.47	6.69	4.98	2.02	2.13	2.82	251	231	251	201	8.0%	0.0%	19.9%	19.9%
10	26-Apr-04	7.50	5.27	5.12	2.03	1.68	2.90	256	235	244	124	8.2%	4.7%	49.2%	51.6%
10	27-Apr-04	7.40	6.39	5.70	2.00	2.03	3.22	283	240	252	58.1	15.2%	11.0%	76.9%	79.5%
10	28-Apr-04	7.57	6.43	5.52	2.05	2.05	3.13	268	255	253	58.7	4.9%	5.6%	76.8%	78.1%
10	29-Apr-04	7.50	6.24	6.24	2.03	1.99	3.53	273	254	260	56.3	7.0%	4.8%	78.3%	79.4%
10	30-Apr-04	7.37	6.22	5.44	1.99	1.98	3.08	271	250	257	59.2	7.7%	5.2%	77.0%	78.2%
10	1-May-04	7.50	6.15	5.13	2.03	1.96	2.90	265	249	260	73.1	6.0%	1.9%	71.9%	72.4%
10	2-May-04	7.30	6.45	4.51	1.97	2.05	2.55	259	251	258	77.7	3.1%	0.4%	69.9%	70.0%
11	3-May-04	7.53	4.38	5.28	2.04	1.39	2.99	263	255	248	70.3	3.0%	5.7%	71.7%	73.3%
11	4-May-04	5.00	4.97	5.55	1.35	1.58	3.14	262	252	254	63.7	3.8%	3.1%	74.9%	75.7%
11	5-May-04	7.50	6.30	5.52	2.03	2.01	3.12	263	250	257	67.7	4.9%	2.3%	73.7%	74.3%
11	6-May-04	4.93	6.34	5.69	1.33	2.02	3.22	257	244	254	68.7	5.1%	1.2%	73.0%	73.3%
11	7-May-04	7.53	6.28	5.37	2.04	2.00	3.04	257	237	261	72.6	7.8%	-1.6%	72.2%	71.8%
11	8-May-04	7.50	5.11	4.79	2.03	1.63	2.71	250	241	241	62.5	3.6%	3.6%	74.1%	75.0%
11	9-May-04	7.41	6.19	5.44	2.00	1.97	3.08	250	245	249	65.3	2.0%	0.4%	73.8%	73.9%
12	10-May-04	7.00	6.22	5.30	1.89	1.98	3.00	252	249	260	75.9	1.2%	-3.2%	70.8%	69.9%
12	11-May-04	7.13	5.98	5.14	1.93	1.90	2.91	251	246	251	70.1	2.0%	0.0%	72.1%	72.1%
12	12-May-04	7.53	4.66	5.59	2.04	1.48	3.16	257	247	236	60.2	3.9%	8.2%	74.5%	76.6%
12	13-May-04	7.43	5.21	5.78	2.01	1.66	3.27	255	231	257	76.9	9.4%	-0.8%	70.1%	69.8%
12	14-May-04	7.49	6.30	5.73	2.03	2.00	3.24	254	234	259	94.2	7.9%	-2.0%	63.6%	62.9%
12	15-May-04	7.43	6.15	5.54	2.01	1.96	3.14	247	230	251	75	6.9%	-1.6%	70.1%	69.6%
12	16-May-04	7.50	6.80	2.53	2.03	2.16	1.43	250	229	262		8.4%	-4.8%		
13	17-May-04	7.07	6.08	0.84	1.91	1.93	0.47	246	217	245		11.8%	0.4%		
13	18-May-04	6.00	6.01	3.12	1.62	1.91	1.76	250	217	258		13.2%	-3.2%		
13	19-May-04	7.50	6.25	1.70	2.03	1.99	0.96	248	220	262		11.3%	-5.6%		
13	20-May-04	7.47	6.12	1.85	2.02	1.95	1.04	248	218	259		12.1%	-4.4%		
13	21-May-04	7.47	5.60	1.37	2.02	1.78	0.78	260	221	271		15.0%	-4.2%		
13	22-May-04	7.55	6.69	1.52	2.04	2.13	0.86	251		267			-6.4%		
13	23-May-04	7.50	6.36	0.60	2.03	2.02	0.34	245	221	265		9.8%	-8.2%		
14	24-May-04	7.55	6.56	1.43	2.04	2.09	0.81	254	227	267		10.6%	-5.1%		
14	25-May-04	7.50	3.71	1.69	2.03	1.18	0.95	271	243	284		10.3%	-4.8%		
14	26-May-04	7.53	6.15	3.22	2.04	1.96	1.82	274	243	289		11.3%	-5.5%		
14	27-May-04	5.97	6.25	1.66	1.61	1.99	0.94	267	239	285		10.5%	-6.7%		
14	28-May-04	7.47	6.10	1.95	2.02	1.94	1.10	262	236	281		9.9%	-7.3%		
Week 1 & 2 Average			8.54	7.77		2.72	4.40	252.4		237.2	144.2		6.2%	39.2%	42.8%
Week 1 & 2 Min			6.55	6.91		2.08	3.91	224.0		180.0	96.2		0.4%	17.4%	21.8%
Week 1 & 2Max			9.00	8.42		2.86	4.76	266.0		265.0	190.0		20.8%	52.3%	58.0%
Week 3 & 4 Average			7.61	6.51		2.42	3.69	257.9		255.0	154.0		1.1%	39.5%	40.1%
Week 3 & 4 Min			2.05	3.46		0.65	1.96	248.0		245.0	78.7		-2.3%	-4.3%	-6.4%
Week 3 & 4 Max			8.26	8.06		2.63	4.56	269.0		269.0	265.0		4.6%	69.3%	68.6%
Week 5 & 6 Average		8.81	7.70	6.45	2.38	2.45	3.65	258.4	249.1	253.0	88.4	3.4%	2.0%	65.0%	65.2%
Week 5 & 6 Min		7.05	6.60	4.72	1.91	2.10	2.67	250.0	238.0	244.0	58.4	1.2%	-0.8%	36.5%	37.3%
Week 5 & 6 Max		9.90	8.37	7.09	2.68	2.66	4.01	267.0	257.0	261.0	163.0	6.3%	8.6%	76.6%	77.0%
Week 7-14 Average		7.18	6.06	4.61	1.94	1.93	2.61	258.4	239.3	258.1	87.4	7.5%	0.1%	65.7%	66.1%
Week 7- 14 Min		4.67	3.71	0.60	1.26	1.18	0.34	236.0	130.0	236.0	56.3	1.2%	-11.9%	-2.4%	-3.6%
Week 7-14 Max		7.66	6.80	6.24	2.07	2.16	3.53	283.0	259.0	292.0	256.0	44.9%	11.0%	78.3%	79.5%

1.5 = BIOFOR N Column Diameter, ft
2 = BIOFOR C Column Diameter, ft
12.1 = BIOFOR C & N Media Depth, ft

2.17 = BIOSTYR Column Diameter, ft
11.48 = BIOSTYR Media Depth, ft

	Grab Sample	TBOD (mg/L)			SBOD (mg/L)			COD (mg/L)			SETS (mL/L)			TS (mg/L)			TVS (mg/L)			TSS (mg/L)			VSS (mg/L)			BW Volume (gallons)			TSS Gen (lb/d)			CBOD Rem (lb/d)				TSS:CBOD Rem			
Week	Date	BIOSTYR	BIOFOR C	BIOFOR N	BIOSTYR	BIOFOR C	BIOFOR N	BIOSTYR	BIOFOR C	BIOFOR N	BIOSTYR	BIOFOR C	BIOFOR N	BIOSTYR	BIOFOR C	BIOFOR N	BIOSTYR	BIOFOR C	BIOFOR N	BIOSTYR	BIOFOR C	BIOFOR N	BIOSTYR	BIOFOR C	BIOFOR N	BIOSTYR	BIOFOR C	BIOFOR N	BIOSTYR	BIOFOR C	BIOFOR N	BIOSTYR	BIOFOR C	BIOFOR N	Total	BIOSTYR	BIOFOR C	BIOFOR N	Total
1	23-Feb-04								727	497		21	16		1970	1810		598	442		650	594		457	332								6.09	0.20	6.29				
1	25-Feb-04		447	64.6		10	10		1280	171		56	1		2770	1480		1060	217		1130	162		833	79								5.69	0.15	5.84				
1	27-Feb-04		192	146		10	7.45		387	218		10	6		1420	1650		286	396		307	280		249	179								7.56	1.23	8.79				
1	29-Feb-04		370	104		38.9	7.5		1200	180		42	3		2450	1400		973	233		154	131		130	101								8.42	1.28	9.70				
2	2-Mar-04		100	262		33.4	15.4		773	284		27	8		2600	1570		1120	306		462	287		371	190								5.70	0.75	6.45				
2	4-Mar-04		276	223		26.0	12.8		996	238		38	7		2900	1540		1290	294		983	291		746	203								7.41	0.39	7.80				
2	6-Mar-04		520	212		24.4	30.8		1150	181		47	3.2		2560	1590		950	299		1040	139		794	95.2								7.86	-0.33	7.53				
3	8-Mar-04		369	263		23.6	37.4		898	308		29	11		2560	1630		957	322		725	282		554	195								7.99	-0.22	7.78				
3	10-Mar-04		42.85	281		23.8	37.6		1260	390		48	15		2540	1920		1190	484		1460	406		1110	276								7.34	-0.35	6.99				
3	12-Mar-04		541			33.1			1190			33			2940			1270			1020			783									7.85	0.34	8.19				
3	14-Mar-04		42.85	168		25.6	41.6		707	103		23	ND		2320	1520		816	285		768	50.9		580	35.1								8.27	0.27	8.54				
4	16-Mar-04		200	205		39			1560			64			2850			1180			1330			1030									1.60	-0.08	1.52				
4	18-Mar-04		396	97.5		8.24	18.1		793	306		32	12		2240	1770		687	448		675	257		557	187								7.89	0.24	8.14				
4	20-Mar-04		154	152		19.5	8		1410	154		72	3		3300	1910		1470	549		1510	106		1170	78.7								7.91	0.41	8.31				
5	22-Mar-04	209	138	199	10	17.6	13.3	716	1020	240	33	7	42	2260	2640	1970	748	1060	600	673	1010	217	522	778	163							5.63	7.24	0.52	7.75				
5	24-Mar-04	429	594	194	17	12.9	34.7	808	951	204	36	4.5	40	2340	2450	1820	782	869	494	673	786	180	508	582	122							6.05	5.66	0.57	6.23				
5	26-Mar-04	81.3	430	117	15.6	11.8	11.8	734	969	147	24	1.5	37	2380	2520	1850	978	944	591	900	840	125	694	660	101							7.06	5.91	0.47	6.37				
5	28-Mar-04	248	378	185	20.2	9.5	3	731	679	213	27	4.5	30	1910	2440	1820	602	848	517	514	787	182	416	588	136							7.40	6.79	0.55	7.34				
6	30-Mar-04	486	426	471	19.8	12.7	21.9	1010	761	236	42	6.5	34	2190	2200	1600	847	746	387	922	209	848	756	155	643							7.33	5.89	0.19	6.08				
6	1-Apr-04	261	427	178	10.2	9.15	3	711	793	213	28	8	35	2080	2260	1800	658	735	483	814	796	228	625	596	165	971	721	501	6.6	4.8	1.0	7.49	6.64	0.57	7.22	0.88	0.72	1.66	0.80
6	3-Apr-04	761	612	188	38.7	25.1	7.44	674	869	198	84	7	46	2700	2370	1800	1140	847	482	1400	902	162	1150	724	128	1253	689	439	14.6	5.2	0.6	9.18	7.94	0.59	8.52	1.59	0.65	1.01	0.68
7	5-Apr-04	302	429	182	20	15.3	3	740	1190	218	26	60	6	1960	2450	1670	588	900	472	599	1030	194	461	789	148	1261	674	478	6.3	5.8	0.8	5.61	6.02	0.39	6.41	1.12	0.96	1.98	1.02
7	7-Apr-04							573	997	198	16	42	6	1940	2410	1770	496	823	433	435	852	151	338	638	121	932	683	470	3.4	4.9	0.6								
7	9-Apr-04	549	460	121	31.1	13.9	7.34	1300	883	150	17	31	0.8	2560		1710	1070		433	1180	928	99	948	594	74.4	909	705	439	8.9	5.5	0.4	6.81	6.02	0.59	6.61	1.31	0.91	0.61	0.88
7	11-Apr-04	218	439	91	16	13.1	3	496	755	134	18	29	1	1840	2100	1600	501	670	379	404	668	95.6	330	552	73.6	956	799	501	3.2	4.5	0.4	7.11	6.12	0.40	6.52	0.45	0.73	1.00	0.74
8	13-Apr-04	184	357	124	14.8	11.1	31.4	560	664	170	22	4.5	2.5	1800	2100	1700	492	574	360	761	693	561	594	553	440	1253	697	454	8.0	4.0	2.1	4.90	0.00			1.63			
8	15-Apr-04	515	124		28.3	8.2		1280	302		80	4.5		2470	1810		1030	452		1100	197		863	160		963	697	469	8.8	1.1		4.78	6.28		6.28	1.85	0.18		0.18
8	17-Apr-04							755	553		31.5	28.5		2010	2080		598	578		488	432		396	338		924	689	469	3.8	2.5									
9	19-Apr-04	513	429		17.1	18.9		1210	1060		64	46		2220	2280		839	809		863	842		687	640		901	689	467	6.5	4.8		6.28	5.70	0.13	5.83	1.03	0.85		0.83
9	21-Apr-04	147	60	108	26.9	9.9	15.7	868	842	110	33	34	ND	2100	2340	1530	704	796	277	605	680	50.1	484	520	36.7	916	705	470	4.6	4.0	0.2	6.95	6.02	0.42	6.44	0.67	0.66	0.47	0.65
9	23-Apr-04	677	307	43	42.3	11.6	7.11	1420	734	77	82	33	0.1	2510	2130	1520	1050	623	276	1140	556	29.8	936	452	24.1	909	752	470	8.6	3.5	0.1	6.96	5.69		5.69	1.24	0.61		0.63
9	25-Apr-04	448	379	94.3	33.4	14.4	7.2	964	896	144	28	43	4	2070	2200	1540	721	742	318	732	738	102	593	585	81.8	924	721	439	5.6	4.4	0.4	6.68	5.97	0.53	6.50	0.85	0.74	0.71	0.74
10	27-Apr-04	434	127	148	27.3	8.4	6.39	1120	666	252	34	26	8	2130	2030	1670	802	614	465	871	538	196	676	403	146	1277	721	470	9.3	3.2	0.8	8.96	8.97	0.03	8.99	1.04	0.36	29.45	0.45
10	29-Apr-04	491	330	94.3	23.2	21.6	3	577	589	103	41	31	0.8	2360	2150	1670	972	704	440	907	609	68.8	728	469	57.4	893	705	470	6.8	3.6	0.3	6.97	6.83	-0.02	6.81	0.97	0.52	-11.24	0.57
10	1-May-04	535	299	322	14.3	13.1	10.5	578	440	754	44	18.5	48	2480	2100	2280	870	546	765	901	356	717	725	283	583	893	710	556	6.7	2.1	3.3	7.35	6.63	0.15	6.78	0.91	0.32	21.77	0.80
11	3-May-04	721	476	209	39	17.1	9.49	1720	845	247	90	40	7	2720	2190	1780	1230	748	495	1400	724	195	1110	554	158	994	710	479	11.6	4.3	0.8	7.70	4.91		4.91	1.51	0.87		1.03
11	5-May-04	583	424	89	35.3	16.3	3	1190	775	103	40	33	1	2630	2540	1900	954	820	444	934	680	241	761	516	193	752	752	446	5.9	4.3	0.9	6.74	5.89	0.27	6.16	0.87	0.72	3.27	0.84
11	7-May-04	133	407	86		10.6	3		806	117		36	1		2530	1860		811	417		646	68.3		505	53.5	979	752	470		4.1	0.3	6.61	5.90	0.36	6.26		0.69	0.75	0.69
11	9-May-04	323	469	112	20.5	9.74	3	829	678	124	20	39	2	638	3940	1760	413	692	434	583	622	419	489	491	312	1285	540	830	6.3	2.8	2.9	6.04	5.15	0.21	5.36	1.04	0.54	13.52	1.06
12	11-May-04	604	367	85.7	40.1	11.9	3	1430	871	91	60	41	ND	2580	2530	1730	1020	833	369	1080	715	41	897	553	31	1292	744	446	11.6	4.4	0.2	6.55	5.65	0.42	6.07	1.78	0.79	0.36	0.76
12	13-May-04	428	286	85.7	26.4	9.11	3	958	520	87	31	24	0.4	2390	2400	1850	845	760	446	696	468	43	572	383	33.7	924	721	462	5.4	2.8	0.2	6.79	4.75	0.67	5.41	0.79	0.59	0.25	0.55
12	15-May-04	306	672	235	29.2	24.1	11.90	686	859		21	42	11.5	2260	2550	2240	704	896	755	463	700	272	392	566	207	924	689	470	3.6	4.0	1.1	7.51	6.36	0.35	6.71	0.48	0.63	3.08	0.76
13	17-May-04	386	620		31.3	20.9		957	1020		24	67		2310	1820		787	753		700	824		564	633		877	721	313	5.1	5.0		8.02	6.80			0.64	0.73		
13	19-May-04	272	395		22.6	22.1		896	1330		30	100		2580	2580		852	930		687	989		556	783		1097	752	423	6.3	6.2		7.24	5.39			0.87	1.15		
13	21-May-04	345	364		29.1	26.9		1010	970		18	44		2290	2440		711	757		659	797		519	608		1128	752	423	6.2	5.0		8.58	5.94			0.72	0.84		
13	23-May-04	418	364		35.3	22.5		1340	993		23	100		2370	2500		799	860		693	767		572	619		1159	658	423	6.7	4.2		7.48	6.18			0.90	0.68		
14	25-May-04	423	426		28.9			1080			40			2460			880			834			675			1590	708	423	11.1			6.61	2.84			1.67	0.00		
14	27-May-04	334	191		37.3	18.4		1210	1320		22	70		1990	2170		446	564		142	273		116	214		1175	705	423	1.4	1.6		7.19	6.94			0.19	0.23		
Week 1 & 2 Average			317	169		24	14		930	253		34	6		2381	1577		897	312		675	269		511	168								6.96	0.52	7.48				
Week 1 & 2 Min			100	65		10	7		387	171		10	1		1420	1400		286	217		154	131		130	79								5.69	-0.33	5.84				
Week 1 & 2Max			520	262		39	31		1280	497		56	16		2900	1810		1290	442		1130	594		833	332								8.42	1.28	9.70				
Week 3 & 4 Average			249	194		25	29		1117	252		43	10		2679	1750		1081	418		1070	220		826	154								6.98	0.09	7.07				
Week 3 & 4 Min			43	98		8	8		707	103		23	3		2240	1520		687	285		675	51		554	35								1.60	-0.35	1.52				
Week 3 & 4 Max			541	281		39	42		1560	390		72	15		3300	1920		1470	549		1510	406		1170	276								8.27	0.41	8.54				
Week 5 & 6 Average		347	429	219	19	14	14	769	863	207	39	6	38	2228	2411	1809	793	864	508	770	761	277	608	583	208	1162	705	470	9.2	5.0	0.8	7.16	6.58	0.49	7.07	1.24	0.69	1.34	0.74
Week 5 & 6 Min		81	138	117	10	9	3	674	679	147	24	2	30	1910	2200	1600	588	735	387	435	209	125	338	155	101	971	689	439	6.3	4.8	0.6	5.63	5.66	0.19	6.08	0.88	0.65	1.01	0.68
Week 5 & 6 Max		761	612	471	39	25	35	1010	1020	240	84	8	46	2700	2640	1970	1140	1060	600	1400	1010	848	1150	778	643	1261	721	501	14.6	5.2	1.0	9.18	7.94	0.59	8.52	1.59	0.72	1.66	0.80
Week 7 & 8 Average		354	362	130	22	12	11	815	763	174	30	29	3	2083	2158	1690	682	684	415	710	686	220	561	518	171	990	706	469	6.5	4.0	0.9	5.84	4.89	0.46	6.46	1.27	0.69	1.20	0.71
Week 7 & 8 Min		184	124	91	15	8	3	496	302	134	16	5	1	1800	1810	1600	492	452	360	404	197	96	330	160	74	909	674	439	3.2	1.1	0.4	4.78	0.00	0.39	6.28	0.45	0.18	0.61	0.18
Week 7 & 8 Max		549	460	182	31	15	31	1300	1190	218	80	60	6	2560	2450	1770	1070	900	472	1180	1030	561	948	789	440	1253	799	501	8.9	5.8	2.1	7.11	6.28	0.59	6.61	1.85	0.96	1.98	1.02
Week 7-14 Average		412	368	131	28	15	8	990	829	181	37	41	6	2218	2335	1766	784	730	443	764	666	197	615	515	154	1040	709	469	6.6	3.9	0.9	6.90	5.72	0.33	6.32	1.02	0.64	4.71	0.73
Week 7- 14 Min		133	60	43	14	8	3	496	302	77	16	5	0	638	1810	1520	413	452	276	142	197	30	116	160	24	752	540	313	1.4	1.1	0.1	4.78	0.00	-0.02	4.91	0.19	0.00	-11.24	0.18
Week 7-14 Max		721	672	322	42	27	31	1720	1330	754	90	100	48	2720	3940	2280	1230	930	765	1400	1030	717	1110	789	583	1590	799	830	11.6	6.2	3.3	8.96	8.97	0.67	8.99	1.85	1.15	29.45	1.06

1.5 = BIOFOR N Column Diameter, ft
2 = BIOFOR C Column Diameter, ft
12.1 = BIOFOR C & N Media Depth, ft

Value reported as less than (<); value shown equal to half the detection level (ex. <7 is reported as 3.5)

Reported value was indicated as "greater than" the value shown.

Week	Grab Sample Date	Sample Type	BIOFOR C					BIOFOR N					BIOSTYR				
			TBOD (mg/l)	TSS (mg/l)	VSS (mg/l)	TS (% WT)	VS (%WT)	TBOD (mg/l)	TSS (mg/l)	VSS (mg/l)	TS (% WT)	VS (%WT)	TBOD (mg/l)	TSS (mg/l)	VSS (mg/l)	TS (% WT)	VS (%WT)
4	18-Mar-04	Supernatant	154	216	172			97.5	122	98.4							
		Solids				1.53	75.6				0.89	57.1					
4	20-Mar-04	Supernatant	155	247	195			86.4	89.7	65.4							
		Solids				1.82	69										
5	24-Mar-04	Supernatant	118	165	124			127	101	68.9			87.3	143	114		
		Solids				0.59	71.7				0.13	ND				0.51	63.6
5	26-Mar-04	Supernatant	144	224	186			86.7	108	80.2			90.8	159	129		
		Solids				1.5	68.3				ND	ND				1.25	76.9
6	1-Apr-04	Supernatant	109	186	143			85.2	89.8	68.4			49.8	106	86.4		
		Solids				2.14	76.7				1.44	72.7				2.34	75
6	3-Apr-04	Supernatant	177	233	185			83.5	59.8	49			80.8	119	97.6		
		Solids				2.22	72				1.41	75				2.28	74
7	9-Apr-04	Supernatant	181	199	166			87.8	99	65.8			99.5	182	148		
		Solids				1.29	69.4				ND	ND				2.1	73
7	11-Apr-04	Supernatant	164	192	157			84.6	81.6	63			103	171	143		
		Solids				1.56	73.8				ND	ND				1.14	71.4
8	17-Apr-04	Supernatant		181	162									151	125		
		Solids				1.16	66.7									1.48	75
9	21-Apr-04	Supernatant	147	217	173			80.8	37.3	30			158	208	169		
		Solids				1.8	73.8				ND	ND				1.89	80
9	23-Apr-04	Supernatant	124	223	180			40.8	33.6	26.4			185	227	189		
		Solids				0.4	54.1				0.16	25				1.17	72.4
10	27-Apr-04	Supernatant		234	177			65.1	69.2	54			111	161	133		
		Solids				1.43	71.9				2.24	57.1				2.57	75.4
10	29-Apr-04	Supernatant	111	195	160			58.6	57	48.8			112	174	150		
		Solids				1.65	71.1				1.16	66.7				2.76	74.6
11	5-May-04	Supernatant	143	60	46.2			54.1	65.8	51.6			133	181	155		
		Solids				1.62	80									2.57	78.6
11	7-May-04	Supernatant	145	197	168			52.3	58.2	45.8							
		Solids				0.82	65.9				0.24	50					
12	13-May-04	Supernatant	122	161	133			39.6	38.1	29.3			140	179	151		
		Solids				1.43	75				ND	ND				2.71	76.2
12	15-May-04	Supernatant	205	185	158			70.8	67.8	54			91.2	137	120		
		Solids				1.46	70				1.59	75				2.64	76.7
13	17-May-04	Supernatant	185	182	148								123	204	177		
		Solids				0.97	72.1									2.61	78.6
14	23-May-04	Supernatant	189	308	257								109	132	114		
		Solids				0.59	69									2.47	76.9
14	27-May-04	Supernatant											120	29.9	26.3		
		Solids														2.55	73.2
		Week 4 Average	155	232	184	1.68	72	92	106	82	0.89	57					
		Week 4 Min	154	216	172	1.53	69	86	90	65	0.89	57					
		Week 4 Max	155	247	195	1.82	76	98	122	98	0.89	57					
		Week 5& 6 Average	137	202	160	1.61	72	96	90	67	0.99	74	77.2	132	107	1.60	72
		Week 5&6 Min	109	165	124	0.59	68	84	60	49	0.13	73	49.8	106	86	0.51	64
		Week 5&6 Max	177	233	186	2.22	77	127	108	80	1.44	75	90.8	159	129	2.34	77
		Week 7& 8 Average	158	203	163	1.79	72	86	88	65	1.43	74	84.8	147	121	1.99	75
		Week 7&8 Min	109	186	143	1.29	68	84	60	49	1.41	73	49.8	106	86	1.25	73
		Week 7&8 Max	181	233	185	2.22	77	88	108	80	1.44	75	103.0	182	148	2.34	77
		Week 7-14 Average	156	195	160	1.24	70	63	61	47	1.08	55	124	176	148	2.18	76
		Week 7- 14 Min	111	60	46	0.40	54	40	34	26	0.16	25	91	132	114	1.14	71
		Week 7-14 Max	205	308	257	1.80	80	88	99	66	2.24	75	185	227	189	2.76	80

WEEK 1

13Inf		Portable Meter Readings			
Date	Time	Temperature (oC)	DO (mg/L)	pH	Turbidity (NTU)
2/23/2004	7:00	20.0	0.15	6.89	34.0
	14:00	22.2	1.40	7.06	18.6
2/24/2004	7:00	21.0	0.07	6.87	29.1
	14:15	22.5	0.10	7.06	40.0
	22:30	20.2	0.30	6.95	41.1
2/25/2004	6:40	21.1	0.07	6.9	43.6
	11:20	21.2	0.10	6.88	39.2
	23:30	20.3	0.20	6.97	42.3
2/26/2004	7:30	20.8	0.10	6.98	47.8
	13:16	23.5	0.10	7.02	34.7
	23:30	20.2	0.30	6.97	41.3
2/27/2004	6:55	21.0	0.09	6.97	38.3
	12:20	21.3	0.08	7.13	17.8
	23:30	19.9	0.11	6.98	41.3
2/28/2004	7:00	22.7	0.30	6.97	41.4
	14:00	21.4	0.60	7.13	45.5
2/29/2004	7:15	22.2	0.15	6.94	41.5
	14:11	22.4	0.13	7.04	35.4
	22:30	18.5	0.10	6.9	49.9
	23:00	20.7	0.40	6.9	49.8
Min		18.5	0.1	6.9	17.8
Max		23.5	1.4	7.1	49.9
Avg		21.2	0.2	7.0	38.9

WEEK 2

13Inf		Portable Meter Readings			
Date	Time	Temperature (oC)	DO (mg/L)	pH	Turbidity (NTU)
3/1/2004	6:30	21.0	0.08	6.92	37.9
	12:56	25.0	0.10	7.18	24.8
	23:00	25.0	0.30	7.00	53.1
3/2/2004	6:45	21.3	0.06	6.94	36.9
	11:32	21.4	0.10	7.02	27.5
	22:00	20.4	0.20	7.04	40.4
3/3/2004	6:50	21.3	0.06	6.99	45.2
	13:12	23.6	0.20	7.02	46.6
	22:30	20.5	0.13	6.99	47.0
3/4/2004	6:45	21.6	0.06	7.00	51.7
	13:12	22.7	0.10	7.27	32.9
	23:00	21.5	0.11	6.96	48.5
3/5/2004	6:55	21.5	0.10	7.10	49.5
	13:06	22.9	0.10	7.07	54.1
	23:00	21.6	0.11	7.02	50.8
3/6/2004	7:45	21.5	0.20	6.89	40.9
	13:00	23.1	0.08	6.87	34.5
	22:00	21.9	0.10	6.84	47.2
3/7/2004	7:40	21.5	0.26	6.83	53.3
	22:30	21.6	0.15	6.86	51.1
Min		20.4	0.1	6.8	24.8
Max		25.0	0.3	7.3	54.1
Avg		22.0	0.1	7.0	43.7

WEEK 3

13Inf		Portable Meter Readings			
Date	Time	Temperature (oC)	DO (mg/L)	pH	Turbidity (NTU)
3/8/2004	6:45	22.4	0.08	6.85	67.6
	12:46	24.5	0.60	6.83	37.8
	21:30	22.5	0.17	6.98	48.5
3/9/2004	6:35	22.6	0.05	6.99	55.8
	13:24	23.9	0.20	7.17	35.6
	23:00	22.0	0.20	6.82	62.7
3/10/2004	6:55	22.7	0.04	6.90	61.9
	13:15	22.7	0.70	7.02	48.7
	22:00	22.5	0.16	6.90	43.3
3/11/2004	6:45	22.6	0.06	6.89	48.2
	13:52	22.3	0.10	7.01	33.6
	22:00	22.3	0.12	6.92	46.3
3/12/2004	7:00	22.5	0.07	6.92	71.7
	11:45	22.0	0.20	7.02	22.9
	22:00	22.3	0.12	7.02	46.7
3/13/2004	7:30	21.8	0.27	6.77	31.4
	14:30	21.5	0.21	6.89	46.5
	23:00	22.1	0.20	6.79	58.0
3/14/2004	6:55	22.0	0.28	6.87	43.6
	13:10	22.6	0.23	6.83	16.8
	22:00	22.0	0.40	6.88	46.3
Min		21.5	0.0	6.8	16.8
Max		24.5	0.7	7.2	71.7
Avg		22.5	0.2	6.9	46.4

WEEK 4

13Inf		Portable Meter Readings			
Date	Time	Temperature (oC)	DO (mg/L)	pH	Turbidity (NTU)
3/15/2004	6:45	22.2	0.12	6.87	47.9
	12:56	22.8	0.20	6.97	39.3
	23:30	22.3	0.20	6.88	5.3
3/16/2004	6:55	22.5	0.08	6.91	46.6
	12:54	22.6	0.10	6.94	41.0
	23:59	22.0	0.20	6.80	52.1
3/1172004	6:45	22.7	0.07	6.85	55.0
	12:58	21.8	0.20	6.94	42.9
	22:00	22.5	0.09	6.90	47.9
3/18/2004	6:55	22.9	0.06	6.85	50.7
	13:00	21.9	0.10	6.85	45.1
	22:00	22.4	0.12	6.83	51.1
3/19/2004	6:45	22.6	0.08	6.86	57.5
	13:00		0.10	6.87	41.1
	22:00	21.5	0.12	6.89	54.8
3/20/2004	7:30	21.7	0.40	6.94	42.3
	13:00	23.0	0.21	6.86	49.0
	23:00	25.0	0.10	6.80	4.9
3/21/2004	7:15	22.6	0.18	6.75	38.9
	9:30	22.7	0.19	6.51	40.6
	23:00		0.10	6.79	53.5
Min		21.5	0.1	6.5	4.9
Max		25.0	0.4	7.0	57.5
Avg		22.5	0.1	6.9	43.2

WEEK 5

13Inf		Portable Meter Readings			
Date	Time	Temperature (oC)	DO (mg/L)	pH	Turbidity (NTU)
3/22/2004	6:45	23.1	0.05	6.82	63.7
	13:03		1.20	6.98	40.3
	23:00		0.30	6.90	46.4
3/23/2004	6:55	23.1	0.03	6.89	43.6
	12:58		0.10	6.85	38.6
3/24/2004	6:55	23.3	0.05	6.88	50.8
	12:47		0.09	6.96	37.4
	0:00	22.5	0.12	6.83	39.8
3/25/2004	6:50	23.0	0.09	6.86	54.5
	13:00	23.6	0.06	6.93	44.5
	23:00	22.7	0.10	6.85	44.2
3/26/2004	6:50	23.2	0.04	6.88	46.7
	12:50	25.0	0.10	6.83	31.8
	22:00	23.1	0.09	6.93	43.4
3/27/2003	7:35	23.1	0.19	6.67	35.4
	9:50	25.4	0.18	6.81	31.3
	14:15	24.0	0.19	6.90	46.3
	23:00	23.0	0.10	6.92	54.7
3/28/2004	7:30	23.3	0.20	6.79	32.1
	13:10	24.7	0.26	6.94	36.8
Min		22.5	0.0	6.7	31.3
Max		25.4	1.2	7.1	75.2
Avg		23.5	0.2	6.9	44.6

WEEK 6

13Inf		Portable Meter Readings			
Date	Time	Temperature (oC)	DO (mg/L)	pH	Turbidity (NTU)
3/29/2004	6:30	25.0	0.09	6.79	51.0
	12:45	25.1	0.10	6.84	45.7
	1:00	22.7	0.20	6.93	60.0
3/30/2004	6:48	23.0	0.11	7.18	40.4
	12:45	23.3	0.20	7.04	39.8
	23:30	23.0	0.10	6.55	51.6
	0:20	22.6	0.10	6.94	68.3
3/31/2004	7:00	23.4	0.17	6.58	37.2
	23:30	23.3	0.17	6.57	49.9
4/1/2004	6:50	23.6	0.06	6.94	39.9
	13:00	23.9	0.50	7.32	49.0
	22:00	23.3	0.06	7.12	59.8
4/2/2004	6:50	23.2	0.04	7.08	53.1
	13:00	23.7	0.10	7.17	37.2
4/3/2004	7:00	22.5	0.05	7.00	43.6
	14:00	23.9	0.34	7.05	42.8
	22:00	23.2	0.08	7.04	57.0
4/4/2004	8:00	21.8	0.14	6.97	46.8
	10:45	22.8	0.20	7.03	40.1
	15:00	23.0	0.20	7.11	48.5
	23:00	23.9	0.10	7.14	75.2
Min		21.8	0.0	6.6	37.2
Max		25.1	0.5	7.3	75.2
Avg		23.3	0.1	7.0	49.4

WEEK 7

13Inf		Portable Meter Readings			
Date	Time	Temperature (oC)	DO (mg/L)	pH	Turbidity (NTU)
4/5/2004	6:35	23.7	0.05	7.07	
	12:55	23.4	0.20	7.09	47.7
	22:30	22.8	0.10	7.28	63.0
4/6/2004	6:45	23.6	0.05	7.06	73.1
	13:10	24.6	0.10	6.93	36.3
	22:30	23.1	0.10	7.18	62.8
4/7/2004	6:50	23.9	0.04	7.05	70.8
	12:35	24.3	0.07	7.13	39.8
	22:00	23.6	0.06	7.15	54.0
4/8/2004	6:45	23.6	0.06	7.04	72.0
	12:45	24.1	0.10	7.09	41.9
	22:00	22.9	0.13	6.72	53.4
4/9/2004	6:50	23.9	0.04	7.05	56.8
	13:25	25.0	0.06	7.01	38.4
	22:00	23.7	0.06	7.18	59.3
4/10/2004	7:15	23.8	0.14	6.92	42.0
	15:40	24.1	0.50	7.05	44.5
	23:30	21.3	0.20	7.00	55.8
4/11/2004	7:30	23.6	0.13	6.96	46.6
	13:32	24.8	0.12	7.10	40.1
	23:00	21.7	0.10	6.87	48.6
Min		21.3	0.0	6.7	36.3
Max		25.0	0.5	7.3	73.1
Avg		23.6	0.1	7.0	52.3

WEEK 8

13Inf		Portable Meter Readings			
Date	Time	Temperature (oC)	DO (mg/L)	pH	Turbidity (NTU)
4/12/2004	7:00	24.0	0.11	6.89	50.5
	13:00	25.4	0.10	6.88	42.7
	23:30	19.6	0.30	6.00	44.9
4/13/2004	6:45	22.7	0.70	7.09	61.6
	13:00	25.1	0.10	7.00	53.5
	23:30	21.7	0.30	6.90	57.0
4/14/2004	7:15	23.9	0.08	7.18	64.5
	12:40	25.5	0.06	7.02	52.3
	22:00	23.3	0.12	7.02	57.5
4/15/2004		24.0	0.03	6.93	80.9
	13:00	25.4	0.20	6.92	50.7
	22:30	23.7	0.18	7.21	77.8
4/16/2004	6:50	23.6	0.06	6.88	75.3
	13:00	24.5	0.10	6.96	66.5
	22:00	23.7	0.09	6.91	52.3
4/17/2004	7:30	24.3	0.09	6.95	50.1
	13:00	22.6	0.21	6.99	45.3
	23:50	22.5	0.20	6.94	101.0
4/18/2004	7:05	20.5	0.10	6.98	87.5
	12:35	23.8	0.08	6.86	93.1
Min		19.6	0.0	6.0	42.7
Max		25.5	0.7	7.2	101.0
Avg		23.5	0.2	6.9	63.3

WEEK 2

		ument Readings-BIOSTYR					
Date	Time	Process air flow (csfm)	Influent flow (gpm)	Effluent DO (mg/L)	Effluent pH	Inlet pressure (psi)	Headloss (iwc)
3/6/2004	7:45	3	6	4.8	7.2	215.9	16.9
	13:00	3	6	5.3	7.2	215.8	16.8

WEEK 5

		Instrument Readings-BIOSTYR						Portable Meter Readings-13BSEff			
Date	Time	Process air flow (csfm)	Influent flow (gpm)	Effluent DO (mg/L)	Effluent pH	Inlet pressure (psi)	Headloss (iwc)	Temperature (oC)	DO (mg/L)	pH	Turbidity (NTU)
3/22/2004	6:50	4.0	5.0	6.0	6.9	255.5	56.4	22.5	5.4	6.9	12.1
	13:03	4.0	9.1	5.9	7.0	219.2	20.1		5.6	7	157.0
	23:00										
3/23/2004	6:45	4.0	9.0	4.8	7.0	229.4	30.3	21.7	5.0	6.96	26.6
	13:20	4.0	9.0	6.0	7.0	215.9	17.3		6.4	7.07	42.7
3/24/2004	6:45	3.0	9.0	5.0	6.9	243.3	43.9	22.7	5.8	6.89	9.5
	12:47	3.0	8.9	4.9	7.0	218.2	18.9		5.4	6.93	94.6
	0:00	3.0	9.0	4.6	6.8	248.0	50.0	22.1	5.0	6.92	9.7
3/25/2004	6:45	3.0	9.0	4.4	6.8	280.5	82.0	22.2	5.5	6.88	10.1
	13:03	4.0	9.0	5.1	7.0	214.1	13.0	23.6	6.5	7.01	141.0
	23:00	4.0	9.0	5.7	6.8	239.0	39.9	21.6	6.5	6.99	5.5
3/26/2004	6:45	4.0	9.0	5.6	6.8	267.0	68.0	22.2	6.4	6.95	5.4
	12:50	4.0	9.3	5.8	7.0	224.3	25.5	25.0	6.8	6.97	10.4
	22:00	4.1	8.9	5.9	6.9	248.0	50.0	22.5	6.5	7.00	6.4
3/27/2003	7:22	4.0	9.0					21.9	6.3	7.07	6.2
	10:05	4.0	9.0	5.9	6.9	221.2	22.4	24.9	6.2	7.03	30.0
	14:00	4.0	9.0	5.9	7.0			23.7	6.2	7.50	6.1
	23:00										
3/28/2004	7:50	4.0	9.0	5.5	6.8	278.4	79.4	22.8	6.2		5.6
	13:10	4.0	9.0	5.4	6.9	227.9	28.6	25.1	6.3	7.04	7.5
Min		3.0	5.0	4.4	6.8	214.1	13.0	21.6	5.0	6.9	5.4
Max		4.1	9.3	6.0	7.0	280.5	82.0	25.1	6.8	7.5	157.0
Avg		3.8	8.8	5.4	6.9	239.4	40.4	23.0	6.0	7.0	32.6

WEEK 6

		Instrument Readings-BIOSTYR						Portable Meter Readings-13BSEff			
Date	Time	Process air flow (csfm)	Influent flow (gpm)	Effluent DO (mg/L)	Effluent pH	Inlet pressure (psi)	Headloss (iwc)	Temperature (oC)	DO (mg/L)	pH	Turbidity (NTU)
3/29/2004	6:40	4.0	9.0	4.4	6.8	278.2	79.7	25.0	6.7	6.8	6.94
	12:45	4.0	9.0	5.9	6.9	220.9	21.8	25.9	6.0	6.88	28.2
3/30/2004	6:48	4.1	9.0	6.0	6.9	274.0	74.6	22.9	6.0	7.05	6.80
	12:45	4.0	10.8	6.2	6.9	231.8	33.1	23.7	6.2	7.16	8.70
3/31/2004	7:00	4.0	9.0	5.7	6.8	236.8	37.4	22.7	5.8	6.68	14.9
	23:30	4.0	8.0	6.3	7.0	223.5	24.7	22.1	7.4	6.62	17.7
4/1/2004	6:55	4.0	8.0	6.4	6.9	255.4	56.4	22.6	7.0	7.22	6.91
	13:00							23.8	5.5	7.35	10.7
	22:00	4.0	8.4	6.2	7.0	217.4	18.6	21.8	6.9	7.12	14.3
4/2/2004	6:45	4.0	8.0	6.2	6.9	250.0	50.7	21.5	7.1	7.24	7.5
	13:00	4.0	10.8	5.8	7.0	218.7	18.9	24.3	6.3	7.34	13.3
4/3/2004	7:15	4.0	9.0	5.3	6.9	222.4	24.5	22.5	4.1	6.93	42.7
	14:10	4.0	9.0	5.2	7.0	213.8	14.8	24.3	6.1	7.22	16.9
	22:00	4.0	9.0	6.0	6.9	241.4	42.5	21.9	6.8	7.23	5.9
4/4/2004	8:10	4.1	8.9	4.9	6.8	283.2	84.1	22.5	6.7	7.19	7.9
	10:50	2.0	7.9	4.0	6.9	214.5	15.4	22.4	6.2	7.27	36.0
	15:00	4.0	9.0	5.0	6.8	255.8	56.2	22.1	7.2	7.21	4.1
	23:00	4.0	7.1	3.3	6.8	236.5	37.9	22.6	6.0	7.16	6.2
Min		2.0	7.1	3.3	6.8	213.8	14.8	21.5	4.1	6.6	4.1
Max		4.1	10.8	6.4	7.0	283.2	84.1	25.9	7.4	7.4	42.7
Avg		3.9	8.8	5.5	6.9	239.7	40.7	23.0	6.3	7.1	14.2

WEEK 7

		Instrument Readings-BIOSTYR						Portable Meter Readings-13BSEff			
Date	Time	Process air flow (csfm)	Influent flow (gpm)	Effluent DO (mg/L)	Effluent pH	Inlet pressure (psi)	Headloss (iwc)	Temperature (oC)	DO (mg/L)	pH	Turbidity (NTU)
4/5/2004	6:50	2.0	7.0	3.0	6.7	258.0	59.4	22.6	5.6	7.1	9.6
	12:55	2.0	7.0	3.1	6.7	217.0	18.1	23.9	5.3	7.14	27.6
	22:30		2.9	5.5	7.0	208.5	8.2	21.2	7.3	7.33	9.1
4/6/2004	6:40	3.0	2.9	5.8	6.9	211.1	11.5	21.3	7.1	7.34	13.1
	13:10	3.0	7.7	4.8	6.9	214.5	14.7	24.2	6.1	6.87	14.7
	22:30		7.0	5.0	6.9	226.9	26.4	21.8	6.7	7.19	9.4
4/7/2004	6:40	3.0	6.5	5.0	6.8	249.0	49.0	22.7	6.3	7.15	6.2
	12:55	1.0	6.2	1.9	6.7	221.5	21.4	23.4	3.5	7.17	7.6
	22:00	3.0	7.2	4.3	6.3	220.1	20.2	22.8	5.6	7.22	7.3
4/8/2004	6:40	3.0	7.1	4.7	6.2	240.0	40.0	22.8	6.0	7.12	4.8
	12:45	3.0	7.5	4.9	6.8	218.5	18.4	23.7	5.8	7.21	22.7
	22:00	5.0	7.5	6.3	7.0	231.8	24.4	22.4	7.1	6.91	10.7
4/9/2004	6:45	5.0	7.4	6.2	6.9	267.0	60.0	23.1	6.8	6.16	5.3
	13:25	5.0	7.0	6.0	7.0	215.8	11.7	24.5	6.7	7.33	8.8
	23:00	1.7	7.6	5.0	6.7	232.1	25.1	22.5	4.5	7.02	10.0
4/10/2004	7:30	1.8	7.7	5.0	6.7	263.4	56.8	22.9	4.4	6.94	54.6
	16:35	1.3	7.5	4.2				24.0	4.4	7.27	5.1
	23:30	3.2	7.4	6.4	6.7	239.3	32.1	21.2	4.4	7.00	6.4
4/11/2004	7:35	3.2	7.5	6.5	6.7	276.3	69.3	22.8	6.5	7.20	4.5
	13:30	3.2	7.6	6.3	6.8	226.1	18.5	24.3	6.2	7.28	5.0
	23:00	7.5		6.2	6.7	251.7	3.2	23.3	5.5	6.90	6.7
Min		1.0	2.9	1.9	6.2	208.5	3.2	21.2	3.5	6.2	4.5
Max		7.5	7.7	6.5	7.0	276.3	69.3	24.5	7.3	7.3	54.6
Avg		3.2	6.8	5.1	6.8	234.4	29.4	22.9	5.8	7.1	11.9

WEEK 8

		Instrument Readings-BIOSTYR						Portable Meter Readings-13BSEff			
Date	Time	Process air flow (csfm)	Influent flow (gpm)	Effluent DO (mg/L)	Effluent pH	Inlet pressure (psi)	Headloss (iwc)	Temperature (oC)	DO (mg/L)	pH	Turbidity (NTU)
4/12/2004	7:00	3.2	7.6	6.0	6.7	292.5	86.6	21.0	6.3	7.0	5.5
	13:00	3.2	7.6	5.9	6.8	227.7	20.2	25.0	6.4	7	9.7
	23:30	3.2	7.6	6.2	6.9	252.4	44.6	21.5	7.3	6.90	6.7
4/13/2004	6:40	3.2	7.5	6.0	6.8	300.0	93.5	22.3	6.5	7.05	5.7
	13:00	3.2	7.4	5.9	6.8	223.3	16.0	24.1	6.4	7.11	13.5
	23:30	1.7	7.4	4.0	6.7	249.0	42.3	20.4	5.0	6.70	7.3
4/14/2004	7:10	1.9	7.5	4.0	6.6	283.0	75.8	23.0	5.1	7.10	5.5
	12:40	2.0	7.5	4.0	6.8	219.7	12.5	25.2	5.2	7.04	9.6
	22:00	2.1	7.5	4.0	6.7	238.6	31.3	22.0	5.6	7.00	5.9
4/15/2004		2.2	7.4	4.0	6.7	271.0	64.0	22.5	5.6	6.95	4.6
	13:00	4.8	7.4	5.0	6.9	214.8	7.3	25.3	6.6	7.22	12.0
	22:30	4.8	7.5	5.0	6.8	234.8	6.8	22.3	7.5	7.22	6.9
4/16/2004	6:45	5.0	7.5	4.8	6.8	270.0	61.5	22.9	6.6	7.13	4.9
	13:00	1.5	7.6	1.2	6.7	223.2	15.0	24.5	3.9	6.95	12.0
	22:15	1.5	7.6	0.2	6.7	248.5	40.7	22.1	3.3	6.93	13.8
4/17/2004	7:30	1.5	7.5	0.2	6.8	222.6	14.9	22.1	3.0	7.08	46.3
	13:00	1.5	7.5	0.5	6.7	222.3	15.4	20.7	4.2	7.01	13.3
	23:50	1.5	7.5	0.3	6.7	241.6	35.0	20.3	4.2	6.87	11.2
4/18/2004	7:16	1.5	7.5	0.1	6.7	268.7	61.3	22.1	3.3	6.94	13.9
	12:40	1.5	7.6	0.1	6.8	225.4	18.3	24.0	3.1	6.94	11.1
Min		1.5	7.4	0.1	6.6	214.8	6.8	20.3	3.0	6.7	4.6
Max		5.0	7.6	6.2	6.9	300.0	93.5	25.3	7.5	7.2	46.3
Avg		2.6	7.5	3.4	6.8	246.5	38.2	22.7	5.2	7.0	11.0

WEEK 1

		Instrument Readings-BIOFOR C			Portable Meter Readings-13BFCEff			
Date	Time	Process air flow (csfm)	Influent flow (gpm)	Column pressure (psi)	Temperature (oC)	DO (mg/L)	pH	Turbidity (NTU)
2/23/2004	6:40	5.45	3.00	9.6	17.9	7.3	7.38	13.00
	14:20	6.06	7.97	8.0	21.1	7.5	7.41	24.40
	20:30	6.35	8.68	10.0	18.9	6.3	6.89	9.63
2/24/2004	7:00	5.94	8.50	10.8	20.4	8.5	7.35	7.96
	14:16	6.01	8.67	8.0	22.2	8.1	6.84	5.71
	22:30	6.23	8.78	10.0	19.9	6.8	7.43	7.04
2/25/2004	6:45	5.84	8.90	11.3	19.8	8.8	7.44	6.27
	11:31	5.66	8.75	11.0	20.8	8.3	7.44	5.99
	23:30	5.45	6.77	9.0	19.5	9.0	7.44	9.02
2/26/2004	7:15	5.70	9.00	9.7	18.3	9.0	7.53	7.68
	13:17	6.00	8.61	9.0	22.7	7.3	7.18	14.00
	23:30	6.00	9.03	10.0	19.5	8.2	7.06	4.44
2/27/2004	6:50	6.00	8.77	10.9	20.0	8.0	7.04	2.76
	12:20	6.00	8.40	11.0	21.1	7.0	7.14	2.29
	22:30	8.00	8.79	10.0	19.7	8.1	7.15	14.00
2/28/2004	7:00	7.00	8.80	10.0	22.2	8.0	7.21	7.48
	14:00	7.00	8.73	7.5	22.0	4.8	7.12	13.40
2/29/2004	7:15	6.00	9.23	11.0	21.1	7.0	7.11	14.20
	15:00	6.00	9.25	8.0	22.5	7.5	7.16	15.40
	22:30	6.00	8.69	8.0	18.1	7.7	7.10	15.40
	23:00	6.00	8.81	10.0	20.6	7.1	7.00	13.90
Min		5.5	3.0	7.5	17.9	4.8	6.8	2.3
Max		8.0	9.3	11.3	22.7	9.0	7.5	24.4
Avg		6.1	8.4	9.7	20.4	7.6	7.2	10.2

WEEK 2

		Instrument Readings-BIOFOR C			Portable Meter Readings-13BFCEff			
Date	Time	Process air flow (csfm)	Influent flow (gpm)	Column pressure (psi)	Temperature (oC)	DO (mg/L)	pH	Turbidity (NTU)
3/1/2004	6:30	3.50	7.72	11.2	19.9	6.6	6.98	9.28
	12:56	3.00	8.47	11.0	25.0	6.6	7.15	8.93
	23:00	10.00	8.52	8.0	25.0	4.3	7.00	11.30
3/2/2004	6:45	3.00	8.80	11.1	20.0	4.4	6.88	11.80
	11:32	3.00	8.59	11.0	21.5	6.4	7.14	6.85
	22:00	3.00	8.70	8.0	20.9	5.9	7.04	12.90
3/3/2004	6:40	3.00	8.70	11.5	20.0	4.3	6.90	10.90
	13:13	3.00	8.73	10.5	23.8	6.0	7.01	8.45
	22:30	2.08	8.73	10.0	20.6	6.2	7.06	12.30
3/4/2004	6:35	2.13	8.80	11.1	21.2	6.0	7.01	10.30
	13:13	2.18	8.84	10.5	22.3	5.5	7.08	7.08
	23:00	2.10	8.94	10.0	21.1	5.9	6.99	11.30
3/5/2004	6:50	2.11	8.80	11.4	21.1	6.4	7.13	5.09
	13:08	2.18	8.90	11.0	23.1	5.5	6.98	5.87
	23:00	2.15	9.18	10.5	21.4	5.7	6.96	11.30
3/6/2004	8:00	2.20	9.35	11.5	21.5	5.4	6.89	7.70
	13:15	2.08	8.80	11.0	22.7	5.9	6.88	11.10
	22:00	2.11	8.83	10.0	21.5	5.7	6.90	13.90
3/7/2004	7:40	2.15	8.76	11.5	21.3	5.2	6.24	9.89
	22:30	2.14	8.81	10.0	21.4	5.7	6.45	10.20
Min		2.1	7.7	8.0	19.9	4.3	6.2	5.1
Max		10.0	9.4	11.5	25.0	6.6	7.2	13.9
Avg		2.9	8.7	10.5	21.8	5.7	6.9	9.8

8.79

WEEK 3

		Instrument Readings-BIOFOR C			Portable Meter Readings-13BFCEff			
Date	Time	Process air flow (csfm)	Influent flow (gpm)	Column pressure (psi)	Temperature (oC)	DO (mg/L)	pH	Turbidity (NTU)
3/8/2004	6:45	2.00	8.00	9.1	22.6	5.2	6.91	9.97
	12:46	2.09	7.61	7.5	24.8	4.8	7.03	17.50
	21:30	2.09	7.74	9.5	22.7	5.5	6.96	11.40
3/9/2004	6:35	2.03	8.00	9.8	22.4	4.4	6.95	24.30
	13:24	2.12	8.93	8.5	24.0	5.2	7.16	9.86
	23:00	2.09	7.77	10.0	21.6	5.5	6.96	11.20
3/10/2004	6:55	2.07	8.03	10.8	22.1	5.3	6.91	8.49
	13:15	2.10	8.01	10.5	22.4	5.4	7.02	11.20
	22:00	2.09	7.69	10.0	22.3	5.2	7.00	9.80
3/11/2004	6:45	2.09	8.15	10.7	22.5	5.0	6.91	8.10
	13:50	2.08	8.49	10.5	22.5	5.3	6.94	7.44
	22:00	2.07	7.90	9.5	22.0	5.5	6.91	6.81
3/12/2004	6:50	2.07	7.80	10.8	22.3	5.0	6.80	6.94
	11:45	2.05	8.05	11.0	21.8	5.4	7.03	6.10
	22:00	2.06	7.71	9.5	22.0	5.7	7.10	8.31
3/13/2004	7:45	2.07	8.03	10.0	22.3	5.0	6.97	7.32
	14:30	2.16	8.35	10.0	21.3	5.2	6.95	6.70
	23:00	2.09	8.33	10.0	21.9	5.5	6.81	12.10
3/14/2004	6:59	2.05	7.68	10.0	21.7	5.3	6.96	6.88
	12:57	2.03	8.97	10.5	22.7	5.9	6.92	7.67
	22:00	2.07	7.95	10.0	21.6	5.9	6.89	8.07
Min		2.0	7.6	7.5	21.3	4.4	6.8	6.1
Max		2.2	9.0	11.0	24.8	5.9	7.2	24.3
Avg		2.1	8.1	9.9	22.4	5.3	7.0	9.8

8.46

WEEK 4

		Instrument Readings-BIOFOR C			Portable Meter Readings-13BFCEff			
Date	Time	Process air flow (csfm)	Influent flow (gpm)	Column pressure (psi)	Temperature (oC)	DO (mg/L)	pH	Turbidity (NTU)
3/15/2004	6:45	2:38	8.46	10.00	22.3	5.1	6.9	6.90
	12:58	2.08	8.10	8.5	22.9	5.7	6.97	40.00
	23:30	2.06	8.22	10.0	21.9	5.7	6.96	7.21
3/16/2004	6:50	2.07	8.10	10.2	22.2	5.0	7.00	14.60
	12:49	2.05	8.12	10.0	22.2	5.4	7.04	8.81
	23:59	2.04	7.91	10.0	21.4	7.6	6.80	8.00
3/1172004	6:35	2.06	8.30	10.3	22.2	5.6	6.86	4.71
	13:00	2.02	7.95	10.0	21.6	5.8	7.01	4.95
	22:00	2.04	7.91	10.0	22.1	5.8	7.03	5.35
3/18/2004	6:45	2.05	7.97	10.8	22.2	5.7	6.90	5.07
	13:04	2.05	7.98	11.0	21.8	5.1	6.98	5.79
	22:00	1.69	7.88	10.0	21.9	5.5	6.91	5.41
3/19/2004	6:40	1.87	8.00	10.6	22.2	5.4	6.87	5.52
	13:05	1.85	7.64	11.0		4.9	6.98	4.82
	22:00	1.87	7.93	10.0	21.0	5.7	6.63	9.43
3/20/2004	7:45	1.88	7.81	10.0	22.0	5.0	7.08	4.44
	13:00	1.83	7.78	10.0	22.9	5.0	7.04	6.68
	23:00	1.80	8.00	5.0	25.0	5.7	6.80	7.80
3/21/2004	7:25	1.85	8.13	10.5	22.2	5.1	6.93	11.10
	9:30	1.84	7.69	10.0	22.1	5.0	7.02	30.50
	23:00	1.80	8.57	5.0		5.2	6.86	9.15
Min		1.7	7.6	5.0	21.0	4.9	6.6	4.4
Max		2.1	8.6	11.0	25.0	7.6	7.1	40.0
Avg		1.9	8.0	9.7	22.2	5.5	6.9	9.8

system may have been backwashing. BW timer was affected when system went down. Anil reprogrammed the backwash timing on Sunday.

WEEK 5

		Instrument Readings-BIOFOR C			Portable Meter Readings-13BFCEff			
Date	Time	Process air flow (csfm)	Influent flow (gpm)	Column pressure (psi)	Temperature (oC)	DO (mg/L)	pH	Turbidity (NTU)
3/22/2004	6:35	1.84	7.17	10.5	22.3	5.3	6.8	6.89
	13:17	1.80	8.46	8.5		5.7	7.02	8.70
	23:00	1.80	8.50	10.0		5.0	6.80	7.30
3/23/2004	6:35	1.80	7.13	10.0	22.2	4.6	6.95	15.20
	13:04	1.78	8.86	10.0		4.2	6.90	31.20
3/24/2004	6:45	1.80	8.50	10.3	22.6	5.3	6.89	6.78
	12:45	1.82	8.73	9.5		5.1	7.01	19.80
	0:00	1.78	7.88	10.0	22.1	5.2	7.0	6.68
3/25/2004	6:45	1.80	7.35	10.5	22.4	4.9	6.9	6.78
	13:05	1.87	7.42	10.0	23.7	5.7	7.00	7.83
	23:00	1.75	8.75	10.0	21.5	5.5	7.03	5.09
3/26/2004	6:40	1.76	7.50	10.8	22.3	5.5	6.96	5.55
	12:50	1.82	7.61	11.0	25.0	5.9	7.01	4.82
	22:00	1.81	7.31	10.0	22.7	5.6	7.04	6.12
3/27/2004	7:35	1.84	6.83	10.5	21.9	5.5	6.67	4.18
	9:52	1.80	7.19	10.5	23.9	5.2	6.97	3.43
	14:15	1.82	8.50	7.5	23.0	7.7	6.46	2.68
	23:00	1.81	6.55	10.0	22.4	5.0	6.79	2.58
3/28/2004	7:40	1.87	8.65	11.0	22.9	5.2	6.92	4.36
	13:00	1.82	7.51	10.0	25.4	5.3	7.10	7.02
Min		1.8	6.6	7.5	21.5	4.2	6.5	2.6
Max		1.9	8.9	11.0	25.4	7.7	7.1	31.2
Avg		1.8	7.8	10.0	22.9	5.4	6.9	8.1

WEEK 6

		Instrument Readings-BIOFOR C			Portable Meter Readings-13BFCEff			
Date	Time	Process air flow (csfm)	Influent flow (gpm)	Column pressure (psi)	Temperature (oC)	DO (mg/L)	pH	Turbidity (NTU)
3/29/2004	6:35	1.75	8.30	10.0	23.3	6.4	7.5	4.60
	12:45	1.85	7.36	10.0	25.6	5.0	6.95	4.70
	1:00	1.78	8.54	10.0	20.8	5.7	7	4.36
3/30/2004	6:38	1.80	7.38	11.5	21.6	6.7	6.86	6.70
	12:50	1.81	7.81	12.0	24.1	4.8	7.18	4.80
	23:30	1.80	7.86	10.0	22.1	5.9	6.63	6.40
	0:20	1.80	8.57	10.0	21.9	5.6	7.03	5.59
3/31/2004	7:35	1.78	7.46	11.0	22.8	5.3	6.79	11.00
	23:00	1.77	7.56	9.5	22.4	5.0	6.35	8.43
4/1/2004	6:45	1.77	7.60	10.4	22.7	5.5	7.05	5.68
	13:00	1.77	7.20	10.0	23.8	5.3	7.2	9.24
	22:00	1.74	7.31	10.0	22.2	5.2	7.2	9.43
4/2/2004	6:40	1.74	7.52	10.9	22.3	4.8	7.00	6.34
	13:00	1.82	7.26	10.0	24.3	4.8	7.35	7.68
4/3/2004	8:00	1.73	7.54	10.5	23.7	4.0	7.07	5.69
	14:20	1.77	7.51	10.0	24.4	4.7	6.91	6.65
	22:00	1.68	8.57	10.0	22.2	4.9	7.16	7.63
4/4/2004	8:15	1.73	7.41	10.0	22.2	3.9	7.15	7.02
	10:55	1.69	6.18	10.0	21.7	8.6	7.20	30.70
	15:00	1.70	6.52	10.0	22.2	4.3	6.95	6.64
	23:00	1.56	6.29	10.0	22.3	4.6	7.13	6.40
Min		1.6	6.2	9.5	20.8	3.9	6.4	4.4
Max		1.9	8.6	12.0	25.6	8.6	7.5	30.7
Avg		1.8	7.5	10.3	22.8	5.3	7.0	7.9

WEEK 7

		Instrument Readings-BIOFOR C			Portable Meter Readings-13BFCEff			
Date	Time	Process air flow (csfm)	Influent flow (gpm)	Column pressure (psi)	Temperature (oC)	DO (mg/L)	pH	Turbidity (NTU)
4/5/2004	6:45	1.57	6.25	10.5	22.9	4.5	7.1	6.58
	13:00	1.59	6.17	10.5	24.0	4.4	7.28	5.34
	22:30	1.57	5.82	10.0	20.3	8.6	6.96	6.09
4/6/2004	6:55	1.56	6.61	10.5	22.7	3.9	7.06	5.91
	13:10	1.61	6.68	10.5	23.8	6.0	6.90	4.66
	22:30	1.57	6.55	10.0	21.1	4.5	7.18	5.69
4/7/2004	6:35	1.57	6.20	10.4	22.7	3.6	7.05	4.92
	12:57	1.58	6.21	11.0	24.0	5.3	7.14	4.62
	22:00	1.56	6.53	4.0	23.4	5.1	7.04	10.40
4/8/2004	6:35	1.54	6.04	10.3	23.5	5.1	7.07	6.29
	12:50	1.48	6.25	10.0	23.9	5.3	7.1	9.23
	22:00	1.99	5.57	8.0	22.6	5.0	6.6	6.88
4/9/2004	6:40	1.44	6.45	10.6	23.0	4.8	7.00	6.31
	13:25	1.47	6.17	10.5	24.6	5.0	6.97	5.43
	23:00	1.45	6.41	10.0	22.4	5.3	7.18	8.31
4/10/2004	7:30	1.43	6.45	10.5	23.2	4.8	7.02	5.63
	16:30	1.42	6.29	8.0	24.3	3.8	7.22	7.40
	23:30	1.40	6.30	4.1	21.0	5.4	7.00	7.40
4/11/2004	7:40	1.43	6.63	10.5	22.7	4.6	7.13	5.98
	13:15	1.45	6.45	10.0	24.4	4.9	7.19	7.46
	23:00	1.42	6.47	10.0	22.3	6.5	6.98	8.61
Min		1.4	5.6	4.0	20.3	3.6	6.6	4.6
Max		2.0	6.7	11.0	24.6	8.6	7.3	10.4
Avg		1.5	6.3	9.5	23.0	5.1	7.1	6.6

WEEK 8

		Instrument Readings-BIOFOR C			Portable Meter Readings-13BFCEff			
Date	Time	Process air flow (csfm)	Influent flow (gpm)	Column pressure (psi)	Temperature (oC)	DO (mg/L)	pH	Turbidity (NTU)
4/12/2004	7:00	1.98	5.46	8.0	21.1	4.0	6.9	5.52
	13:00	1.48	6.25	10.5	25.1	4.9	6.88	6.80
	23:30	1.40	6.30	4.2	21.8	6.0	7	6.51
4/13/2004	6:40	1.44	6.20	10.5	22.6	4.9	6.98	7.13
	13:00	2.31	6.31	10.0	24.1	4.3	7.04	7.64
	23:30	1.90	5.10	9.0	21.0	2.9	6.90	49.40
4/14/2004	7:05	1.30	6.10	8.1	22.6	3.0	7.30	81.60
	12:40	1.41	6.26	8.0	24.8	3.1	7.15	44.90
	22:00	1.66	6.33	9.0	23.2	7.7	7.03	15.70
4/15/2004		1.65	6.30	9.6	22.5	5.8	7.01	7.60
	13:00	1.40	6.30	9.5	24.9	5.2	7.0	5.84
	22:30	1.42	6.27	10.0	22.5	5.9	7.1	6.20
4/16/2004	6:40	1.41	6.25	10.4	22.9	5.3	6.94	4.81
	13:00	1.43	6.07	10.5	24.4	4.2	7.01	3.97
	22:00	1.37	6.24	9.0	21.0	6.0	7.01	5.12
4/17/2004	7:45	1.38	6.35	10.0	22.9	5.2	7.06	3.59
	13:00	1.35	6.31	11.0	20.5	5.8	6.99	4.81
	23:50	1.38	6.22	10.0	21.0	6.8	7.12	3.02
4/18/2004	7:20	1.41	6.22	10.0	21.9	5.8	7.14	3.29
	12:50	1.42	6.24	10.0	23.8	4.9	7.06	4.11
Min		1.3	5.1	4.2	20.5	2.9	6.9	3.0
Max		2.3	6.4	11.0	25.1	7.7	7.3	81.6
Avg		1.5	6.2	9.4	22.7	5.1	7.0	13.9

WEEK 1

		Instrument Readings-BIOFOR N			Portable Meter Readings-13BFNEff			
Date	Time	Process air flow (csfm)	Influent flow (gpm)	Column pressure (psi)	Temperature (oC)	DO (mg/L)	pH	Turbidity (NTU)
2/23/2004	6:40	3.63	5.80	8.9	17.5	8.7-9.0	7.13	11.90
	14:40	3.51	6.94	7.1	21.3	6.0	7.23	9.95
	20:30	3.93	7.99	9.0	18.5	6.4	6.90	8.75
2/24/2004	7:00	3.93	7.70	9.2	19.2	6.8	7.22	10.10
	14:17	3.13	8.51	7.3	22.5	6.4	7.25	12.90
	22:30	3.76	8.36	9.0	19.5	7.7	7.29	10.10
2/25/2004	6:50	3.75	7.85	9.4	18.4	6.8	7.15	7.35
	11:26	3.32	8.42	8.5	20.8	7.0	7.16	19.00
	23:30	3.71	7.42	8.5	19.1	6.6	7.29	6.81
2/26/2004	7:00	4.20	6.68	8.4	16.0	6.9	7.39	4.15
	13:20	4.00	8.92	7.0	22.0	6.0	6.90	3.55
	23:30	4.00	7.47	9.0	19.5	7.1	6.67	3.27
2/27/2004	6:50	4.00	7.94	8.4	19.0	7.2	6.62	3.46
	12:20	4.00	8.70	7.5	21.0	4.4	7.05	2.70
	22:30	4.00	8.19	8.5	19.0	5.2	6.88	4.19
2/28/2004	7:00	3.00	8.10	8.0	22.2	5.3	6.83	3.82
	14:00	4.00	7.30	7.0	21.7	5.1	6.73	4.45
2/29/2004	7:20	4.00	7.01	9.0	21.1	5.5	6.21	4.88
	14:45	4.00	6.25	6.5	22.5	5.7	6.61	5.58
	22:30	4.00	7.74	9.0	17.8	6.2	6.70	4.50
	23:00	4.00	7.31	8.0	20.6	5.5	6.60	3.70
Min		3.0	5.8	6.5	16.0	4.4	6.2	2.7
Max		4.2	8.9	9.4	22.5	7.7	7.4	19.0
Avg		3.8	7.6	8.2	20.0	6.2	6.9	6.9

WEEK 2

		Instrument Readings-BIOFOR N			Portable Meter Readings-13BFNEff			
Date	Time	Process air flow (csfm)	Influent flow (gpm)	Column pressure (psi)	Temperature (oC)	DO (mg/L)	pH	Turbidity (NTU)
3/1/2004	6:30	2.80	7.05	8.8	19.4	6.7	6.68	4.00
	12:56	4.50	7.16	7.5	25.0	6.3	6.72	4.54
	23:00	9.00	7.31	9.0	25.0	7.0	6.50	4.14
3/2/2004	6:45	>4	7.38	9.0	19.0	5.7	6.62	3.52
	11:32	4.00	8.42	8.0	20.9	4.7	6.70	7.41
	22:00	3.00	6.90	9.0	20.2	6.5	6.88	8.63
3/3/2004	6:45	3.00	7.00	9.2	19.0	6.9	6.74	5.19
	13:15	4.25	7.95	7.5	23.2	6.0	6.69	5.63
	22:30	2.40	8.47	9.0	19.8	6.6	6.87	9.15
3/4/2004	6:30	2.43	8.30	8.8	20.0	6.4	6.76	5.69
	13:14	2.46	8.56	7.5	22.0	6.9	6.89	9.75
	23:00	2.54	8.39	9.0	20.6	7.3	6.55	7.28
3/5/2004	6:50	2.56	7.80	9.1	20.4	8.0	7.01	7.51
	13:10	2.45	8.13	7.5	22.9	6.8	6.69	4.50
	23:00	2.54	8.45	9.5	21.1	7.3	6.60	6.62
3/6/2004	8:15	2.54	8.15	9.0	21.2	6.4	6.58	4.54
	13:15	2.55	8.20	9.0	22.4	5.7	6.60	8.60
	22:00	2.42	7.84	9.5	21.2	6.0	6.73	8.77
3/7/2004	7:46	2.42	7.86	9.0	21.1	6.0	6.61	5.77
	22:30	2.40	7.85	9.0	21.2	6.1	6.64	6.71
Min		2.4	6.9	7.5	19.0	4.7	6.5	3.5
Max		9.0	8.6	9.5	25.0	8.0	7.0	9.8
Avg		3.2	7.9	8.7	21.3	6.5	6.7	6.4

WEEK 3

		Instrument Readings-BIOFOR N			Portable Meter Readings-13BFNEff			
Date	Time	Process air flow (csfm)	Influent flow (gpm)	Column pressure (psi)	Temperature (oC)	DO (mg/L)	pH	Turbidity (NTU)
3/8/2004	6:40	2.51	7.51	8.8	22.4	6.0	6.50	4.32
	12:49	2.46	9.23	6.5	24.8	5.9	6.62	15.10
	21:30	2.62	7.44	8.5	22.8	6.4	6.69	8.52
3/9/2004	6:40	2.51	6.95	8.8	22.0	6.3	6.59	6.59
	13:25	2.41	7.58	7.0	23.9	5.7	6.81	8.90
	23:00	2.61	7.36	9.0	20.9	5.8	6.73	5.52
3/10/2004	6:45	2.65	7.00	9.2	21.6	7.4	6.65	6.14
	13:15	2.55	7.06	8.5	22.5	6.5	6.70	10.10
	22:00	2.57	7.27	9.0	21.8	7.4	6.70	6.17
3/11/2004	6:50	2.55	6.78	9.0	22.2	6.8	6.66	5.18
	13:51	2.51	6.69	9.0	22.3	6.1	6.62	4.73
	22:00	2.54	7.50	9.0	21.2	6.8	6.88	5.33
3/12/2004	6:55	0.00	7.90	9.2	21.8	6.2	6.76	3.60
	11:45	0.00						
	22:00	0.03	7.81	8.0	21.2	3.9	7.09	5.72
3/13/2004	7:45	0.00	7.60	8.0	22.0	3.9	6.91	6.62
	14:30	0.02	5.29	9.5	21.3	3.3	6.92	8.94
	23:00	0.00	6.16	9.0	21.5	4.0	6.97	12.60
3/14/2004	7:01	0.02	5.44	9.5	21.2	3.5	6.98	7.38
	12:57	0.00	7.43	8.0	22.3	4.0	6.97	3.83
	22:00	0.00	7.10	9.0	21.1	3.9	6.95	5.61
Min		0.0	5.3	6.5	20.9	3.3	6.5	3.6
Max		2.7	9.2	9.5	24.8	7.4	7.1	15.1
Avg		1.5	7.2	8.6	22.0	5.5	6.8	7.0

WEEK 4

		Instrument Readings-BIOFOR N			Portable Meter Readings-13BFNEff			
Date	Time	Process air flow (csfm)	Influent flow (gpm)	Column pressure (psi)	Temperature (oC)	DO (mg/L)	pH	Turbidity (NTU)
3/15/2004	6:45	0.08	0.00	7.5				
	12:58	unit not in operation						
	23:30	0.00	6.92	10.0	21.3	4.7	6.23	7.56
3/16/2004	6:45	0.00	8.00	9.7	21.2	5.6	7.09	9.00
	12:53	2.54	7.33	8.6	21.9	6.5	6.90	10.80
	23:59	2.50	7.50	9.0	20.7	7.2	6.90	6.90
3/1172004	6:40	2.53	7.30	9.2	21.4	6.4	6.58	4.66
	13:03	2.49	7.42	9.0	21.4	7.1	6.83	4.10
	22:00	2.52	6.79	9.0	21.7	7.4	6.93	3.65
3/18/2004	6:50	2.52	6.80	9.2	21.9	6.9	6.45	3.54
	13:07	2.51	8.32	8.5	21.9	5.8	6.69	7.30
	22:00	2.52	7.37	9.0	21.5	5.7	6.71	3.53
3/19/2004	6:40	2.51	7.20	8.9	21.7	5.9	6.37	3.32
	13:08	2.47	7.58	8.5		5.8	6.58	3.77
	23:00	2.47	0.00	7.0				
3/20/2004	7:30	2.50	0.00	6.0	20.4	6.1	6.77	6.02
	13:00	2.49	8.86	8.0	22.4	5.4	6.66	6.00
	23:00	2.50	7.50	8.0		6.2	6.40	4.40
3/21/2004	7:20	2.49	7.15	9.0	21.5	5.8	6.29	2.92
	9:35	2.48	7.15	7.0	20.9	6.4	6.65	3.89
	23:00	2.46	0.00	7.0		5.4	6.58	3.77
Min		0.0	0.0	6.0	20.4	4.7	6.2	2.9
Max		2.5	8.9	10.0	22.4	7.4	7.1	10.8
Avg		2.1	6.0	8.4	21.5	6.1	6.6	5.3

WEEK 5

		Instrument Readings-BIOFOR N			Portable Meter Readings-13BFNEff			
Date	Time	Process air flow (csfm)	Influent flow (gpm)	Column pressure (psi)	Temperature (oC)	DO (mg/L)	pH	Turbidity (NTU)
3/22/2004	6:40	2.47	0.00	7.00				
	13:21	2.48	7.25	8.0		5.7	6.5	5.82
	23:00	2.50	6.90	8.4		5.6	6.50	3.90
3/23/2004	6:40	2.46	6.55	8.7	21.4	7.0	6.36	3.23
	13:08	2.49	6.67	8.5		6.2	6.41	5.32
3/24/2004	6:45	2.50	6.53	8.9	21.8	7.3	6.91	2.67
	12:45	2.47	7.30	8.0		6.2	6.78	5.04
	0:00	2.49	6.56	8.5	21.5	5.6	6.52	3.32
3/25/2004	6:35	2.47	6.40	9.0	22.0	7.1	6.36	2.79
	13:10	2.46	6.83	8.0	23.9	6.1	6.41	3.55
	23:00	2.45	7.17	8.5	20.7		6.75	4.11
3/26/2004	6:35	2.47	7.50	9.0	21.9	6.0	6.41	2.99
	12:50	2.39	7.01	8.5	25.0	6.0	6.50	4.16
	22:00	2.48	6.76	9.0	22.7	6.0	6.53	3.90
3/27/2004	7:30	2.41	7.11	8.5	20.9	6.4	6.33	3.07
	9:55	2.45	7.10	8.5	23.4	5.0	6.41	2.57
	14:20	2.80	7.00	6.0	24.4	4.7	6.92	10.20
	23:00	2.48	7.09	8.0	22.1	5.6	6.97	8.51
3/28/2004	7:45	2.45	6.75	8.5	22.4	6.6	6.28	1.99
	13:15	2.34	7.19	7.0	25.3	4.5	6.39	4.57
Min		2.3	0.0	6.0	20.7	4.5	6.3	2.0
Max		2.8	7.5	9.0	25.3	7.3	7.0	10.2
Avg		2.5	6.6	8.2	22.6	6.0	6.5	4.3

WEEK 6

		Instrument Readings-BIOFOR N			Portable Meter Readings-13BFNEff			
Date	Time	Process air flow (csfm)	Influent flow (gpm)	Column pressure (psi)	Temperature (oC)	DO (mg/L)	pH	Turbidity (NTU)
3/29/2004	6:45	2.34	5.90	8.00	25.0	5.8	6.8	1.95
	12:45	2.28	6.12	7.0	25.6	5.8	6.47	2.46
	1:00	2.48	6.53	8.0	20.7	7.8	6.70	2.71
3/30/2004	6:38	2.51	6.28	8.5	22.5	5.1	7.05	1.84
	12:50	2.50	7.15	8.0	24.0	5.7	6.79	4.56
	23:30	2.54	6.07	8.0	21.5	6.8	5.76	2.46
	0:20	2.49	6.52	8.0	21.4	7.9	6.80	2.32
3/31/2004	8:00	2.49	6.02	8.5	22.4	6.2	6.38	2.11
	23:00	2.52	6.03	8.0	21.4	6.8	6.09	2.83
4/1/2004	6:40	2.52	6.13	8.8	22.1	7.0	6.54	2.10
	13:00	2.51	7.01	8.0	23.9	6.0	6.61	7.01
	22:00	2.51	6.34	9.0	21.5	6.0	7.15	3.68
4/2/2004	6:35	2.54	6.25	8.5	20.9	6.8	6.63	3.09
	13:00	2.56	6.79	8.0	24.0	6.4	6.72	2.49
4/3/2004	8:15	2.52	7.05	8.5	23.3	5.6	6.70	3.03
	14:30	2.53	6.78	8.0	24.3	5.2	6.74	6.41
	22:00	2.55	6.81	8.5	21.7	5.7	6.64	3.59
4/4/2004	8:20	2.53	5.41	8.5	22.9	6.3	6.78	2.26
	11:00	2.54	5.93	8.5	23.2	6.3	6.80	2.94
	15:00	2.55	5.51	8.0	21.6	6.9	7.04	2.71
	23:00	2.22	5.68	8.0	21.6	6.0	6.67	2.41
Min		2.2	5.4	7.0	20.7	5.1	5.8	1.8
Max		2.6	7.2	9.0	25.6	7.9	7.2	7.0
Avg		2.5	6.3	8.2	22.6	6.3	6.7	3.1

WEEK 7

		Instrument Readings-BIOFOR N			Portable Meter Readings-13BFNEff			
Date	Time	Process air flow (csfm)	Influent flow (gpm)	Column pressure (psi)	Temperature (oC)	DO (mg/L)	pH	Turbidity (NTU)
4/5/2004	6:40	2.21	5.66	9.00	22.4	5.9	6.6	2.40
	13:00	2.17	6.31	8.0	24.2	6.0	6.95	6.71
	22:30	2.20	5.75	8.0	21.4	5.4	6.73	2.79
4/6/2004	6:50	2.21	5.42	8.3	22.5	6.5	6.60	3.07
	13:10	2.17	5.62	8.0	23.7	3.9	6.54	3.47
	22:30	2.19	5.02	8.0	21.8	6.4	6.83	2.35
4/7/2004	6:30	2.22	4.90	8.7	22.5	6.2	6.54	2.66
	12:57	2.16	4.80	8.0	23.7	6.8	6.96	5.95
	22:00	2.14	5.81	8.0	22.5	6.4	6.61	3.35
4/8/2004	6:30	2.13	5.80	8.1	21.7	6.8	6.58	2.35
	12:50	1.99	5.79	8.0	23.3	6.9	6.85	2.61
	22:00	1.45	6.39	9.0	22.8	6.9	6.34	2.12
4/9/2004	6:35	1.98	5.70	8.2	22.5	6.9	6.45	1.98
	13:25	1.89	6.56	7.5	24.2	6.2	6.54	5.46
	23:00	1.99	6.37	7.5	22.3	6.6	6.43	2.83
4/10/2004	7:40	1.97	6.38	8.0	22.7	6.4	6.80	2.86
	16:00	1.96	5.59	7.0	24.0	4.2	6.80	1.82
	23:30	2.00	5.60	7.5	18.7	7.4	6.40	1.70
4/11/2004	7:45	1.97	5.50	6.0	22.5	7.4	6.71	2.09
	13:25	1.87	5.46	7.0	24.1	6.2	7.32	7.36
	23:00	1.88	5.49	8.0	20.7	7.0	6.84	5.40
Min		1.5	4.8	6.0	18.7	3.9	6.3	1.7
Max		2.2	6.6	9.0	24.2	7.4	7.3	7.4
Avg		2.0	5.7	7.9	22.6	6.3	6.7	3.4

WEEK 8

		Instrument Readings-BIOFOR N			Portable Meter Readings-13BFNEff			
Date	Time	Process air flow (csfm)	Influent flow (gpm)	Column pressure (psi)	Temperature (oC)	DO (mg/L)	pH	Turbidity (NTU)
4/12/2004	7:00	1.44	6.23	10.50	22.0	5.4	6.9	5.79
	13:00	1.91	5.46	7.0	24.8	6.6	6.51	2.00
	23:30	2.00	5.20	9.0	21.8	7.6	7.00	2.42
4/13/2004	6:40	2.00	5.15	8.1	21.3	6.8	7.19	1.98
	13:00	1.93	5.76	7.5	23.5	6.1	6.68	6.02
	23:30	1.00	6.20	3.0	21.2	6.8	6.80	5.70
4/14/2004	7:00	1.98	5.21	8.4	22.2	6.5	6.67	6.47
	12:40	1.99	5.57	8.5	24.3	6.5	6.65	6.62
	22:30	0.00	5.01	7.5	22.2	3.6	7.05	47.90
4/15/2004		0.00	5.10	8.0	21.3	3.8	7.10	40.30
	13:00	0.00	5.92	7.5	24.9	2.9	7.04	14.40
	22:30	0.00	5.67	7.5	21.4	3.3	6.77	8.43
4/16/2004	6:35	0.00	5.70	7.6	21.7	3.1	7.00	7.25
	13:00	0.00	5.81	7.5	23.7	3.3	7.07	5.34
	22:30	0.00	5.36	7.5	20.9	4.3	7.11	3.75
4/17/2004	8:00	0.00	5.40	8.00	21.9	3.5	7.1	2.80
	13:00	0.00	5.50	8.0	20.1	3.7	7.07	5.40
	23:50	0.00	5.40	7.5	19.6	4.9	7.18	3.81
4/18/2004	7:25	0.00	5.41	8.00	20.9	3.8	7.1	2.79
	13:00	0.00	5.47	8.0	23.0	3.8	6.93	3.36
Min		0.0	5.0	3.0	19.6	2.9	6.5	2.0
Max		2.0	6.2	10.5	24.9	7.6	7.2	47.9
Avg		0.7	5.5	7.7	22.1	4.8	6.9	9.1

WEEK 9

13Inf		Portable Meter Readings				
Date	Time	Temperature (oC)	DO (mg/L)	pH	Turbidity (NTU)	UVT (%)
4/19/2004	6:45	23.3	0.06	6.85	60.4	
	13:00	25.5	0.10	6.90	55.6	
	23:45	22.5	0.10	6.90	63.1	
4/20/2004	6:45	23.8	0.04	6.86	60.6	
	12:45	26.0	0.05	7.01	101.0	
	23:45	23.0	0.50	6.89	55.7	
4/21/2004	6:40	24.0	0.07	6.91	55.0	
	13:00	25.6	0.30	6.94	98.9	
	22:30	23.0	0.21	7.00	55.6	
4/22/2004	6:45	23.4	0.09	6.91	66.4	
	13:00	26.0	0.07	7.07	147.0	
	22:00	23.8	0.12	6.82	131.0	
4/23/2004	6:50	23.5	0.06	6.87	80.1	
	13:00	26.0	0.10	7.07	130.0	
	23:30	23.9	0.05	6.73	59.9	
4/24/2004	8:20	23.9	0.14	6.91	94.5	16
	10:00	25.5	0.15	6.87	68.6	12
4/25/2004	1:30	23.2	0.10	6.84	123.0	
	8:00	24.2	0.09	6.94	77.0	16
	14:00	25.9	0.05	7.07	58.6	19
4/26/2004	0:30	22.9	0.10	6.86	161.0	
Min		22.5	0.0	6.7	55.0	12
Max		26.0	0.5	7.1	161.0	19
Avg		24.2	0.1	6.9	85.9	16

WEEK 9

		Instrument Readings-BIOSTYR						Portable Meter Readings-13BSEff				
Date	Time	Process air flow (csfm)	Influent flow (gpm)	Effluent DO (mg/L)	Effluent pH	Inlet pressure (psi)	Headloss (iwc)	Temperature (oC)	DO (mg/L)	pH	Turbidity (NTU)	UVT (%)
4/19/2004	6:40	1.5	7.6		6.7	284.0	76.0	21.9	2.6	6.8	13.7	
	13:00	1.5	7.9		6.2	222.1	14.8	24.5	3.5	6.83	11.3	
	23:45	1.0	7.5	1.9	6.2	236.5	29.1	22.2	2.3	6.84	20.6	
4/20/2004	6:45	1.0	7.6	0.1	6.2	257.0	49.7	22.6	2.1	6.77	23.7	
	12:45	0.9	7.5	0.4	6.3	223.6	16.0	25.0	2.2	6.86	18.0	
	23:45	1.0	7.5		6.3	246.8	39.0	22.1	2.6	6.87	23.4	
4/21/2004	6:40	1.0	7.5		6.2	266.0	58.6	23.2	2.0	6.83	29.0	
	13:00	2.0	7.4	0.8	6.3	224.1	16.8	25.4	4.2	6.91	15.1	
	22:30	2.0	7.6	2.3	6.2	248.1	40.1	22.3	5.1	6.98	11.5	
4/22/2004	6:40	2.0	7.5	2.0	6.2	282.0	75.0	22.9	4.5	6.89	9.2	
	13:00	2.0	7.6	1.4	6.3	227.7	20.9	25.4	4.0	6.95	14.2	
	22:00	7.5	7.6	2.6	6.2	256.0	48.3	23.0	4.4	6.98	13.3	
4/23/2004	6:45	2.0	7.5	2.8	6.1	300.0	93.0	22.5	4.7	6.86	8.1	
	13:00	1.5	7.2	0.8	6.3	223.1	15.7	25.4	3.6	6.91	11.8	
	23:30	1.5	7.6	1.0	6.2	253.0	45.9	22.7	3.7	6.93	9.9	
4/24/2004	8:23	1.5	7.5	0.6	6.2	290.7	84.2	23.9	3.5	6.87	8.2	
	10:00	1.4	7.6	0.9	6.7	219.6	12.0	24.2	3.6	6.93	28.4	39
4/25/2004	1:30	1.5	7.5	0.1	6.7	268.0	61.3	22.4	3.8	6.94	12.0	
	8:00	1.5	7.5	0.1	6.7	298.5	91.3	23.6	3.3	6.93	10.7	52
	14:00	2.0	7.5	0.1	6.8	233.2	25.9	25.1	4.7	7.02	8.7	58
4/26/2004	0:30	1.5	7.4	1.2	6.7	266.5	60.7	22.8	5.2	6.95	8.9	
Min		0.9	7.2	0.1	6.1	219.6	12.0	21.9	2.0	6.8	8.1	39
Max		7.5	7.9	2.8	6.8	300.0	93.0	25.4	5.2	7.0	29.0	58
Avg		1.8	7.5	1.1	6.4	253.6	46.4	23.5	3.6	6.9	14.7	50

WEEK 9

		Instrument Readings-BIOFOR C			Portable Meter Readings-13BFCEff				
Date	Time	Process air flow (csfm)	Influent flow (gpm)	Column pressure (psi)	Temperature (oC)	DO (mg/L)	pH	Turbidity (NTU)	UVT (%)
4/19/2004	6:35	1.40	6.27	10.4	22.1	4.6	6.9	5.23	
	13:00	1.44	6.23	10.5	24.3	5.3	6.89	4.28	
	23:45	1.39	6.40	10.0	21.1	5.5	7.1	5.86	
4/20/2004	6:30	1.40	6.30	10.3	22.8	4.5	6.90	5.30	
	12:45	1.41	6.14	10.0	24.9	4.6	6.94	6.15	
	23:45	1.38	6.29	9.5	21.7	5.5	7.07	5.52	
4/21/2004	6:40	1.38	6.24	10.0	23.1	4.7	6.95	7.00	
	13:00	1.44	5.98	9.5	25.4	4.2	6.89	7.70	
	22:30	1.40	6.26	9.2	22.3	5.5	7.05	7.41	
4/22/2004	6:35	1.36	6.20	10.1	23.0	4.8	6.95	6.14	
	13:00	1.43	6.32	10.0	25.3	3.5	6.9	6.75	
	22:00	1.40	6.22	9.0	22.8	4.9	7.1	7.62	
4/23/2004	6:40	1.34	5.50	10.3	22.4	4.8	6.90	4.60	
	13:00	1.51	6.15	9.5	25.3	5.0	6.90	5.67	
	23:30	1.44	6.33	9.0	22.7	4.5	7.16	7.73	
4/24/2004	8:27	1.48	6.24	10.0	24.0	3.5	7.13	6.92	53
	10:06	1.45	6.27	10.0	24.4	3.5	7.08	8.49	48
4/25/2004	1:30	1.47	6.24	10.0	20.6	5.2	7.08	11.40	
	8:15	1.49	6.25	10.0	23.8	3.4	7.05	15.10	63
	14:00	1.44	6.23	9.0	24.7	4.3	7.02	15.40	45
4/26/2004	0:30	1.52	7.59	10.0	22.8	4.4	7.04	7.81	
Min		1.3	5.5	9.0	20.6	3.4	6.9	4.3	45
Max		1.5	7.6	10.5	25.4	5.5	7.2	15.4	63
Avg		1.4	6.3	9.8	23.3	4.6	7.0	7.5	52

WEEK 9

		Instrument Readings-BIOFOR N			Portable Meter Readings-13BFNEff				
Date	Time	Process air flow (csfm)	Influent flow (gpm)	Column pressure (psi)	Temperature (oC)	DO (mg/L)	pH	Turbidity (NTU)	UVT (%)
4/19/2004	6:30	0.0	5.20	7.9	20.0	3.6	7.0	4.79	
	13:00	0.0	6.05	7.5	23.7	3.8	6.94	4.69	
	23:45	2.22	5.67	8.5	20.9	6.7	6.45	5.10	
4/20/2004	6:35	2.17	5.64	8.6	21.7	6.4	6.39	5.26	
	12:45	2.14	5.80	8.5	24.3	5.3	6.37	3.14	
	23:45	2.97	5.59	8.0	21.8	6.0	6.57	4.00	
4/21/2004	6:35	3.62	5.50	8.2	22.1	5.0	6.30	2.39	
	13:00	3.54	5.76	7.5	24.6	6.4	6.42	5.46	
	22:30	3.66	5.30	8.0	22.5	6.7	6.09	3.57	
4/22/2004	6:30	3.60	5.10	8.3	22.0	6.7	6.30	2.27	
	13:00	3.17	5.46	8.0	24.6	5.7	6.45	3.05	
	22:00	3.60	4.74	8.0	22.7	6.1	6.29	3.20	
4/23/2004	6:35		4.60	9.4	21.3	6.2	6.30	1.90	
	13:00	3.16	6.36	8.0	25.0	4.9	6.36	3.13	
	23:30	3.22	5.94	8.0	22.5	5.1	6.56	3.68	
4/24/2004	8:30		6.28	7.5	23.6	4.5	6.4	2.27	62
	10:10		6.14	7.5	24.3	4.5	6.43	2.28	59
4/25/2004	1:30	2.38	4.63	8.0	21.0	5.6	6.41	2.35	
	8:15	2.78	4.51	8.0	23.2	4.0	6.5	2.30	51
	14:00	2.54	5.30	7.5	24.7	3.9	7.10	2.99	64
4/26/2004	0:30	2.65	5.14	8.0	22.5	4.8	6.99	6.41	
Min		0.0	4.5	7.5	20.0	3.6	6.1	1.9	51
Max		3.7	6.4	9.4	25.0	6.7	7.1	6.4	64
Avg		2.6	5.5	8.0	22.8	5.3	6.5	3.5	59

WEEK 9

BIOSTYR		Instrument Readings										
Date	Time	Process air flow (scfm)	Backwash air flow (scfm)	Backwash flow (gpm)	Effluent DO(mg/L)	Effluent pH	Inlet pressure (psi)	Headloss (iwc) Before BW	Headloss (iwc) After BW	Backwash tank level (in)	Time till next BW (min)	Max time between BW (min)
4/19/2004	9:00	3.00	3.0	89.90	0.00	6.70	194.1-203.5	88.5	8.6	28.75	1421	1440
4/21/2004	9:00	3.00	3.0	90.60	0.00	6.30	202.7	65.2	1	29.25	1422	1440
4/23/2004	9:00	2.00	2.0	89.50	2.70	6.30	112.4	24	4.5	29	1425	1440
4/25/2004	9:00	3.00	3.0	90.00	0.10	6.80	121.6	0		29.5	1440	1440
			2.8	90.0								

WEEK 9

BIOFOR -C		Instrument Readings								
Date	Time	Process air flow (scfm)	Backwash air flow (scfm)	Backwash flow (gpm)	Backwash tank level (in)	Inlet pressure (psi)	Headloss (iwc) Before BW	Headloss (iwc) After BW	Time till next BW (min)	Max time between BW (min)
4/19/2004	13:30	1.43	16.0	25.71	22.00	11	85	24	1372	1372
4/21/2004	13:30	1.37	16.0	25.62	22.50	10 --7	83	31	1372	1372
4/23/2004	13:30	1.52	16.0	25.56	24.00	7	80	24	1372	1372
4/25/2004	14:00	1.43	16.0	26.00	23.00	9	63	35	1372	1372

25.72

WEEK 9

BIOFOR -N		Instrument Readings								
Date	Time	Process air flow (scfm)	Backwash air flow (scfm)	Backwash flow (gpm)	Backwash tank level (in)	Inlet pressure (psi)	Headloss (iwc) Before BW	Headloss (iwc) After BW	Time till next BW (min)	Max time between BW (min)
4/19/2004	10:00		9.0	15.07		11	16.75		2812	2812
4/21/2004	10:00	4.15	9.0	15.50	15	8.5--7	38	32.5	2812	2812
4/23/2004	10:00	3.08	9.0	15.87	15	8	40	28	2812	2812
4/25/2004	10:55	2.58	9.0	15.00	14	8	40	34	2812	2812

15.36

		Imhoff Cone Testing											
Week	Date	Biostyr				Biofor C				Biofor N			
		Time	Minutes	Volume (mL)	SVI	Time	Minutes	Volume (mL)	SVI	Time	Minutes	Volume (mL)	SVI
1	2/27/2004					14:15	15	13	41	11:40	15	2.7	19
							30	12.5			30	5.3	
2	3/2/2004					13:00	15	23	52	11:00	15	5	26
							30	24			30	7.5	
3	3/10/2004					14:30	15	45	27	10:55	15	15	38
							30	40			30	15.5	
3	3/14/2004					15:00			23	11:50			8
							30	18			30	0.4	
4	3/18/2004					14:22	15	37	41	11:20	15	12.5	54
							30	28			30	14	
4	3/20/2004					14:00	15		33	11:30	15	0.5	14
							30	50			30	1.5	
5	3/24/2004	12:20	15	50	56	14:25	15	35	37	11:10	15	1.5	19
			30	38			30	29			30	3.5	
5	3/26/2004	9:25	15	42	33	14:15	15	35	36	10:50	15	0.1	8
			30	30			30	30			30	1	
5	3/28/2004	9:30	15	28	47	14:45	15	25	34	11:45	15	2	14
			30	24			30	27			30	2.5	
6	4/1/2004	9:30	15	29	26	14:35	15	29	30	11:25	15	6.5	33
			30	21			30	24			30	7.5	
6	4/3/2004	10:00	15	100	57	13:30	15	35	33	13:00	15	7.5	37
			30	80			30	30			30	6	
7	4/9/2004	9:25	15	48	30	14:20	15	29	27	10:55	15	0.1	
			30	35			30	25			30	0.4	
8	4/17/2004	10:53	15	34	51	13:55	15	20	42		15		
			30	25			30	18			30		
9	4/21/2004	9:30	15	25	33	14:25	15	28	35	11:00	15	0	
			30	20			30	24			30	<0.1	
9	4/23/2004	9:25	15	40		14:15	15	18		10:55	15	0.2	
			30	35			30	15			30	0.2	
			15				15				15		
			30				30				30		

WEEK 6

BIOSTYR		Instrument Readings										
Date	Time	Process air flow (scfm)	Backwash air flow (scfm)	Backwash flow (gpm)	Effluent DO(mg/L)	Effluent pH	Inlet pressure (psi)	Headloss (iwc) Before BW	Headloss (iwc) After BW	Backwash tank level (in)	Time till next BW (min)	Max time between BW (min)
3/30/2004	9:00		4.0	92.30	5.40	7.00	199.4 117.4	84.7	20.3		1440	1440
4/1/2004	9:00		4.0	90.30	3.30	7.10	196.4 117.8	60	12	31	1440	1440
4/3/2004	8:30		4.0	88.00	5.20	7.00	205	222.4	211.8	40	1440	1440

WEEK 7

BIOSTYR		Instrument Readings										
Date	Time	Process air flow (scfm)	Backwash air flow (scfm)	Backwash flow (gpm)	Effluent DO(mg/L)	Effluent pH	Inlet pressure (psi)	Headloss (iwc) Before BW	Headloss (iwc) After BW	Backwash tank level (in)	Time till next BW (min)	Max time between BW (min)
4/5/2004	9:00	3.00	3.0	91.80	2.70	6.80	203.2	16.6	9.9	40.25	1440	1440
4/7/2004	9:00	3.00	3.0	91.80	3.50	6.80	118.9	34.7	13.1	29.75	1440	1440
4/9/2004	9:00		3.2	90.20	5.30	6.90	107.4	67.7	0	29	1440	1440
4/11/2004	9:00	0.00	3.0	96.10	3.80	6.80	118.3		0	30.5	1436	1440

WEEK 8

BIOSTYR		Instrument Readings										
Date	Time	Process air flow (scfm)	Backwash air flow (scfm)	Backwash flow (gpm)	Effluent DO(mg/L)	Effluent pH	Inlet pressure (psi)	Headloss (iwc) Before BW	Headloss (iwc) After BW	Backwash tank level (in)	Time till next BW (min)	Max time between BW (min)
4/13/2004	9:00		3.0	85.60	4.90	6.90	195.8-202.8	19.7	10.3	40	1440	1440
4/15/2004	9:00	3.20	3.2	95.30	3.30	6.70	198	76		30.75	1418	1440
4/17/2004	9:00	0.00	3.0	85.00	0.10	6.80	122	0		29.5	1436	1440

WEEK 1

BIOFOR -C		Instrument Readings								
Date	Time	Process air flow (scfm)	Backwash air flow (scfm)	Backwash flow (gpm)	Inlet pressure (psi)		Headloss (iwc)		Time till next BW (min)	Max time between BW (min)
					Before BW	After BW	Before BW	After BW		
2/27/2004	14:30	6.0	16.0	26	11	9	84	37		1370
2/29/2004	13:24	6.0	16.0	25.75	9				1	1370
3/2/2004	12:00	6.0	16.0	26	11		90	36.5		1440

WEEK 2

BIOFOR -C		Instrument Readings							
Date	Time	Process air flow (scfm)	Backwash air flow (scfm)	Backwash flow (gpm)	Inlet pressure (psi)	Headloss (iwc)		Time till next BW (min)	Max time between BW (min)
						Before BW	After BW		
3/4/2004	13:30	2.12	16.0	25.72	12	93	35.5	1370	1370
3/6/2004	13:21	2.08	16.0	25.79	11	100	36	2780	2810

WEEK 3

BIOFOR -C		Instrument Readings							
Date	Time	Process air flow (scfm)	Backwash air flow (scfm)	Backwash flow (gpm)	Inlet pressure (psi)	Headloss (iwc)		Time till next BW (min)	Max time between BW (min)
						Before BW	After BW		
3/8/2004	13:21	2.03	16.0	26.44	8.5	45	31	1370	1370
3/10/2004	13:25	2.10	16.0	25.80	10.5	85	34	1370	1370
3/12/2004	13:30	2.07	16.0	25.36	11	94	27	1370	
3/14/2004	13:30	2.02	15.0	26.04	10	64.5	48	1370	1370

WEEK 4

BIOFOR -C		Instrument Readings							
Date	Time	Process air flow (scfm)	Backwash air flow (scfm)	Backwash flow (gpm)	Inlet pressure (psi)	Headloss (iwc)		Time till next BW (min)	Max time between BW (min)
						Before BW	After BW		
3/16/2004	13:30	2.04	16.0	37.72	6.5 10	62	26	1370	1370
3/18/2004	13:30	2.02	15.0	25.48	12.5	90	36.5	1370	1370
3/20/2004	13:30	1.80	16.8	25.10	11.5	73.5	28	1370	1370

WEEK 5

BIOFOR -C		Instrument Readings							
Date	Time	Process air flow (scfm)	Backwash air flow (scfm)	Backwash flow (gpm)	Inlet pressure (psi)	Headloss (iwc)		Time till next BW (min)	Max time between BW (min)
						Before BW	After BW		
3/22/2004	13:15	1.82	16.0	26.49	10	71	35	1370	1370
3/24/2004	13:30	1.73	15.0	25.30	9.5 8	60	32	1370	1370
3/26/2004	13:30	1.79	16.0	25.48	11 8		27	1370	1370
3/28/2004	13:30	1.84	16.0	25.23	8		24.87	1370	1370

WEEK 6

BIOFOR -C		Instrument Readings								
Date	Time	Process air flow (scfm)	Backwash air flow (scfm)	Backwash flow (gpm)	Backwash tank level (in)	Inlet pressure (psi)	Headloss (iwc) Before BW	Headloss (iwc) After BW	Time till next BW (min)	Max time between BW (min)
3/30/2004	13:30	1.76	16.0	25.88	spill	12	spill	36	1370	1370
4/1/2004	13:30	1.73	16.0	26.26	23	10	78.5	35	1370	1370
4/3/2004	13:00	1.80	16.0	26.00	22		80	40.5	1370	1370

WEEK 7

BIOFOR -C		Instrument Readings								
Date	Time	Process air flow (scfm)	Backwash air flow (scfm)	Backwash flow (gpm)	Backwash tank level (in)	Inlet pressure (psi)	Headloss (iwc) Before BW	Headloss (iwc) After BW	Time till next BW (min)	Max time between BW (min)
4/5/2004	13:30	1.56	16.0	25.50	21.50	10.5	>90	24	1310	1370
4/7/2004	13:30	1.53	16.0	25.88	21.8	12	57	26	1370	1370
4/9/2004	13:30	1.49	16.0	25.45	22.5	10.5 7.5	>90	23	1370	1370
4/11/2004	13:30	1.41	16.0	26.00	25.50	11	85	24.5	1370	1370

WEEK 8

BIOFOR -C		Instrument Readings								
Date	Time	Process air flow (scfm)	Backwash air flow (scfm)	Backwash flow (gpm)	Backwash tank level (in)	Inlet pressure (psi)	Headloss (iwc) Before BW	Headloss (iwc) After BW	Time till next BW (min)	Max time between BW (min)
4/13/2004	13:30	2.07	16.0	25.34	22.25	10.5	80	13	1372	1372
4/15/2004	13:30	1.42	16.0	25.83	22.25	11	54.5	43	1372	1372
4/17/2004	13:30	1.43	16.0	23.05	22.00	7	73.5	24.5	1370	1370

WEEK 1

BIOFOR -N		Instrument Readings								
Date	Time	Process air flow (scfm)	Backwash air flow (scfm)	Backwash flow (gpm)	Inlet pressure (psi)		Headloss (iwc)		till next BW	Max time between BW (min)
					Before BW	After BW	Before BW	After BW		
2/27/2004	11:15	4.0	9.0	15	8.5	8	30	16	X	2810
2/29/2004	9:45	3.5	9.0	14.9	9	7	37	29.75	7	2810
3/2/2004	10:00	4.0	9.0	15.88	9		40	37		2810

WEEK 2

BIOFOR -N		Instrument Readings							
Date	Time	Process air flow (scfm)	Backwash air flow (scfm)	Backwash flow (gpm)	Inlet pressure (psi)	Headloss (iwc)		till next BW	Max time between BW (min)
						Before BW	After BW		
3/4/2004	10:00	2.40	9.0	15.21	9	53	47	2810	2810
3/6/2004	10:30	2.54	8.4	12.97	9	52	48	2780	2810

WEEK 3

BIOFOR -N		Instrument Readings							
Date	Time	Process air flow (scfm)	Backwash air flow (scfm)	Backwash flow (gpm)	Inlet pressure (psi)	Headloss (iwc)		till next BW	Max time between BW (min)
						Before BW	After BW		
3/8/2004	10:02	2.44	9.0	15.4	6.5	62	51	2810	2810
3/10/2004	9:55	2.51	9.0	15.31	9	59	51	2800	2810
3/14/2004	11:00	0.00	9.0	15.17	10.5		41.5	2780	2810

WEEK 4

BIOFOR -N		Instrument Readings							
Date	Time	Process air flow (scfm)	Backwash air flow (scfm)	Backwash flow (gpm)	Inlet pressure (psi)	Headloss (iwc)		till next BW	Max time between BW (min)
						Before BW	After BW		
3/18/2004	10:00	2.51	9.0	16.67	9.5	56.25	44	2780	2780
3/20/2004	10:45	2.48	9.0	16.80	8	51.5	41	2812	2812

WEEK 5

BIOFOR -N		Instrument Readings							
Date	Time	Process air flow (scfm)	Backwash air flow (scfm)	Backwash flow (gpm)	Inlet pressure (psi)	Headloss (iwc)		till next BW	Max time between BW (min)
						Before BW	After BW		
3/22/2004	10:00	2.52	9.0	15.36	9	45	37	2812	2812
3/24/2004	10:00	2.51	9.0	15.35	9 8	51	40		2812
3/26/2004	10:00	2.45	9.0	14.58	9 8.5	50	43	2812	2812
3/28/2004	10:30	2.50	9.0	15.00		49.5	37.5	2812	2812

WEEK 6

BIOFOR -N		Instrument Readings								
Date	Time	Process air flow (scfm)	Backwash air flow (scfm)	Backwash flow (gpm)	Backwash tank level (in)	Inlet pressure (psi)	Headloss (iwc)		Time till next BW (min)	Max time between BW (min)
							Before BW	After BW		
3/30/2004	10:00	2.53	9.0	15.23	spill	9	spill	39	2812	2812
4/1/2004	10:18	2.55	10.0	15.66	16	10	52	30.5	2812	2812
4/3/2004	10:00	2.50	9.0	15.00	14	9	50	38.5	2840	2840

WEEK 7

BIOFOR -N		Instrument Readings								
Date	Time	Process air flow (scfm)	Backwash air flow (scfm)	Backwash flow (gpm)	Backwash tank level (in)	Inlet pressure (psi)	Headloss (iwc) Before BW	Headloss (iwc) After BW	Time till next BW (min)	Max time between BW (min)
4/5/2004	10:00	2.11	9.0	14.27	15.25	8.5 10	47	28	2752	2812
4/7/2004	10:00	2.14	9.0	14.96	15	10	38.75	31	2752	2812
4/9/2004	10:00	1.93	9.0	14.85	14	8 7.5	30	26	2812	2812
4/11/2004	10:00	1.91	9.0	14.66	16	4.5		20.12	2812	2812

WEEK 8

BIOFOR -N		Instrument Readings								
Date	Time	Process air flow (scfm)	Backwash air flow (scfm)	Backwash flow (gpm)	Backwash tank level (in)	Inlet pressure (psi)	Headloss (iwc) Before BW	Headloss (iwc) After BW	Time till next BW (min)	Max time between BW (min)
4/13/2004	10:00	1.94	9.0	14.91	14.5	10	28.5		2812	2812
4/5/1904	10:00	0.00	9.0	15.02	NA	11	25	13.75	2812	2812

		Imhoff Cone Testing											
Week	Date	Biostyr				Biofor C				Biofor N			
		Time	Minutes	Volume (mL)	SVI	Time	Minutes	Volume (mL)	SVI	Time	Minutes	Volume (mL)	SVI
1	2/27/2004					14:15	15	13	41	11:40	15	2.7	19
							30	12.5			30	5.3	
2	3/2/2004					13:00	15	23	52	11:00	15	5	26
							30	24			30	7.5	
3	3/10/2004					14:30	15	45	27	10:55	15	15	38
							30	40			30	15.5	
3	3/14/2004					15:00			23	11:50			8
							30	18			30	0.4	
4	3/18/2004					14:22	15	37	41	11:20	15	12.5	54
							30	28			30	14	
4	3/20/2004					14:00	15		33	11:30	15	0.5	14
							30	50			30	1.5	
5	3/24/2004	12:20	15	50	56	14:25	15	35	37	11:10	15	1.5	19
			30	38			30	29			30	3.5	
5	3/26/2004	9:25	15	42	33	14:15	15	35	36	10:50	15	0.1	8
			30	30			30	30			30	1	
5	3/28/2004	9:30	15	28	47	14:45	15	25	34	11:45	15	2	14
			30	24			30	27			30	2.5	
6	4/1/2004	9:30	15	29	26	14:35	15	29	30	11:25	15	6.5	33
			30	21			30	24			30	7.5	
6	4/3/2004	10:00	15	100	57	13:30	15	35	33	13:00	15	7.5	37
			30	80			30	30			30	6	
7	4/9/2004	9:25	15	48		14:20	15	29		10:55	15	0.1	
			30	35			30	25			30	0.4	
8	4/17/2004	10:53	15	34		13:55	15	20			15		
			30	25			30	18			30		
			15				15				15		
			30				30				30		
			15				15				15		
			30				30				30		
			15				15				15		
			30				30				30		

WEEK 10

13Inf		Portable Meter Readings				
Date	Time	Temperature (oC)	DO (mg/L)	pH	Turbidity (NTU)	UVT (%)
4/26/2004	7:30	24.0	0.05	7.00	72.1	20
	13:00	26.4	0.10	6.93	60.4	22
	23:00	23.2	0.10	6.84	124.0	
4/27/2004	6:50	24.0	0.09	6.91	66.2	21
	13:10	25.6	0.20	7.03	65.9	18
	23:30	23.9	0.10	6.91	94.5	
4/28/2004	6:35	23.6	0.12	6.96	86.0	16
	13:00	25.5	0.10	6.97	57.8	16
	22:00	23.7	0.20	7.01	57.9	
4/29/2004	6:55	23.8	0.10	6.93	84.1	18
	13:00	26.6	0.20	6.94	56.8	14
	22:40	22.8	0.28	6.78	81.7	
4/30/2004	7:05	22.0	0.20	7.07	59.1	17
	13:00	25.9	0.40	6.98	59.7	13
	22:00	23.3	0.25	7.00	66.4	13
5/1/2004	7:10	21.1	0.37	6.91	61.8	14
	13:35	25.3	0.55	6.84	63.8	8
	23:00	22.9	0.10	6.67	63.7	13
5/2/2004	7:00	24.3	0.08	7.00	57.5	16
	14:00	25.2	0.15	6.86	68.2	
	22:00	24.4	0.30	6.70	64.5	12
Min		21.1	0.1	6.7	56.8	8
Max		26.6	0.6	7.1	124.0	22
Avg		24.2	0.2	6.9	70.1	16

WEEK 10

		Instrument Readings-BIOSTYR						Portable Meter Readings-13BSEff				
Date	Time	Process air flow (csfm)	Influent flow (gpm)	Effluent DO (mg/L)	Effluent pH	Inlet pressure (psi)	Headloss (iwc)	Temperature (^{o}C)	DO (mg/L)	pH	Turbidity (NTU)	UVT (%)
4/26/2004	7:15	2.0	7.5	1.5	6.7	300.4	92.8	22.9	4.6	6.94	7.6	56
	13:00	2.0	7.5	0.8	6.8	229.0	21.9	25.5	4.7	6.92	8.8	56
	23:00	1.5	7.5	1.0	6.7	268.0	61.3	22.4	3.8	6.94	12.0	
4/27/2004	6:45	2.0	7.5	1.0	6.8	221.0	6.8	22.8	4.1	6.98	9.9	52
	13:10	2.0	7.2	1.0	6.8	222.0	15.3	26.0	4.9	6.96	8.7	56
	23:30	1.5	7.5	0.6	6.2	290.7	84.3	23.8	3.4	6.87	8.2	
4/28/2004	6:30	2.0	7.5	0.7	6.7	273.0	65.0	22.8	4.9	6.89	7.6	53
	13:00	2.0	7.6	0.6	6.7	225.7	19.4	24.3	5.4	6.96	9.3	52
	22:00	2.0	7.6	0.5	6.8	255.0	48.7	23.4	5.3	7.05	8.7	
4/29/2004	6:50	2.0	7.5	0.3	6.7	291.0	83.0	23.1	5.1	6.90	7.4	54
	13:00	2.0	7.5	4.8	6.3	225.3	18.1	25.5	4.7	6.90	13.7	52
	23:00	2.0	7.5	4.5	6.2	263.0	55.5	23.2	4.3	6.96	9.2	
4/30/2004	7:00	2.0	7.5	4.4	6.2	296.0	89.0	22.8	4.5	7.00	8.9	54
	13:00	2.0	7.0	3.9	6.2	199.6	96.4	24.6	4.0	6.88	10.5	57
	22:00	2.0	7.6	4.5	6.8	221.8	14.3	23.1	4.6	6.95	14.3	48
5/1/2004	7:13	2.0	7.5	4.2	6.8	247.3	40.1	22.5	4.5	6.89	10.1	53
	13:40	2.0	7.5	4.1	6.8	223.1	15.6	25.3	5.5	6.90	10.1	45
	23:00	2.0	7.5	3.4	6.7	257.0	50.0	22.8	4.0	6.70	10.5	46
5/2/2004	7:15	2.0	7.3	1.9	6.7	303.5	98.0	25.3	3.3	6.97	8.2	51
	14:10	1.4	7.5	0.9	6.8	219.3	12.0	24.5	3.6	6.94	29.2	
	22:00	1.7	7.5	0.5	6.9	259.0	51.4	25.0	3.3	6.20	13.0	34
Min		1.4	7.0	0.3	6.2	199.6	6.8	22.4	3.3	6.2	7.4	34
Max		2.0	7.6	4.8	6.9	303.5	98.0	26.0	5.5	7.1	29.2	57
Avg		1.9	7.5	2.1	6.6	251.9	49.5	23.9	4.4	6.9	10.8	51

WEEK 10

		Instrument Readings-BIOFOR C			Portable Meter Readings-13BFCEff				
Date	Time	Process air flow (csfm)	Influent flow (gpm)	Column pressure (psi)	Temperature (oC)	DO (mg/L)	pH	Turbidity (NTU)	UVT (%)
4/26/2004	7:00	1.50	4.48	9.8	22.9	4.5	6.9	7.99	58
	13:00	1.47	5.08	9.0	25.5	4.2	6.98	7.53	61
	23:00	1.47	6.24	10.0	20.6	5.2	7.08	11.40	
4/27/2004	6:40	1.50	6.25	10.4	23.8	4.7	6.90	5.30	60
	13:10	1.42	6.68	10.5	26.0	5.3	6.94	3.88	59
	23:30	6.89	6.24	10.0	23.9	3.5	7.13	6.92	
4/28/2004	6:30	1.46	6.30	10.0	23.5	5.3	6.96	4.43	52
	13:00	1.45	6.69	10.0	24.6	5.5	6.98	5.15	55
	22:00	1.45	6.29	9.0	23.5	6.0	7.16	5.48	
4/29/2004	6:45	1.49	6.27	10.0	23.3	5.8	6.96	4.45	57
	13:00	1.53	6.22	10.0	25.6	5.5	6.9	5.45	54
	22:30	1.43	6.24	10.0	22.4	5.1	7.0	3.25	
4/30/2004	6:55	1.43	6.20	10.6	22.9	5.2	7.00	4.27	57
	13:00	1.42	6.20	10.5	24.8	4.6	6.91	5.24	57
	22:00	1.43	6.25	9.0	23.2	5.0	6.94	7.33	48
5/1/2004	7:17	1.44	5.96	10.0	22.8	5.4	7.03	6.02	57
	13:25	1.44	6.28	8.0	25.1	6.0	6.98	5.97	53
	23:00	1.40	6.20	3.5	23.6	5.1	6.91	10.80	48
5/2/2004	7:30	1.44	6.45	9.5	25.4	5.7	7.02	6.78	54
	14:20	1.47	6.30	10.0	24.9	3.5	7.10	8.53	
	22:00	1.40	6.20	3.1	24.8	5.7	7.00	7.82	47
Min		1.4	4.5	3.1	20.6	3.5	6.9	3.3	47
Max		6.9	6.7	10.6	26.0	6.0	7.2	11.4	61
Avg		1.7	6.1	9.2	24.0	5.1	7.0	6.4	55

WEEK 10

		Instrument Readings-BIOFOR N			Portable Meter Readings-13BFNEff				
Date	Time	Process air flow (csfm)	Influent flow (gpm)	Column pressure (psi)	Temperature (oC)	DO (mg/L)	pH	Turbidity (NTU)	UVT (%)
4/26/2004	7:00	2.6	5.20	8.1	22.7	3.8	7.0	11.20	40
	13:00	2.3	5.54	7.0	24.8	4.0	7.04	8.09	43
	23:00	2.38	4.63	8.0	21.1	5.6	6.41	2.34	
4/27/2004	6:35	2.22	5.30	9.0	22.8	6.5	6.52	2.28	65
	13:10	2.03	5.51	7.5	25.2	6.6	6.68	5.60	65
	23:30	6.32	6.28	8.0	23.6	4.5	6.38	2.27	
4/28/2004	6:40	2.10	4.80	8.3	21.6	7.4	6.63	1.76	62
	13:00	2.08	6.04	8.5	23.1	7.1	6.67	2.11	63
	22:00	2.12	5.73	8.1	22.5	7.3	6.37	2.18	
4/29/2004	6:40	2.15	5.99	8.6	21.3	7.4	6.45	2.99	63
	13:00	2.07	6.78	8.0	24.6	6.6	6.44	7.22	62
	22:30	2.19	5.94	8.5	21.8	6.5	6.36	2.10	
4/30/2004	6:50	2.14	5.98	8.8	21.6	7.3	6.56	1.85	64
	13:00	2.06	5.04	7.5	24.1	6.1	6.64	2.13	64
	22:00	2.14	5.30	8.0	22.4	7.3	6.14	2.56	61
5/1/2004	7:20	2.16	5.19	7.5	22.6	7.0	6.7	2.80	65
	13:35	2.10	5.39	6.5	25.1	7.8	6.67	5.80	60
	23:00	2.00	4.80	7.5	23.3	6.8	6.50	3.21	59
5/2/2004	7:45	2.08	4.51	7.5	25.2	6.1	6.8	2.55	62
	14:25	6.30	6.19	7.5	25.1	4.5	6.48	2.31	
	22:00	2.10	4.80	7.5	25.7	6.4	6.70	2.30	55
Min		2.0	4.5	6.5	21.1	3.8	6.1	1.8	40
Max		6.3	6.8	9.0	25.7	7.8	7.0	11.2	65
Avg		2.6	5.5	7.9	23.3	6.3	6.6	3.6	60

WEEK 10

BIOSTYR		Instrument Readings										
Date	Time	Process air flow (scfm)	Backwash air flow (scfm)	Backwash flow (gpm)	Effluent DO(mg/L)	Effluent pH	Inlet pressure (psi)	Headloss (iwc) Before BW	Headloss (iwc) After BW	Backwash tank level (in)	Time till next BW (min)	Max time between BW (min)
4/27/2004	9:00	2.00	3.0	90.40	0.60	6.70	203.5	25.3	7.6	40.75	1422	1440
4/29/2004	9:00	2.00	3.0	89.10	0.20	6.70	205.8	92.3	9.2	28.5	1421	1440
5/1/2004				82-88			126.8			28.5		

WEEK 10

BIOFOR -C		Instrument Readings								
Date	Time	Process air flow (scfm)	Backwash air flow (scfm)	Backwash flow (gpm)	Backwash tank level (in)	Inlet pressure (psi)	Headloss (iwc) Before BW	Headloss (iwc) After BW	Time till next BW (min)	Max time between BW (min)
4/27/2004	13:30	1.42	16.0	26.12	23.00	10.5	81	34.25	1372	1372
4/29/2004	13:30	1.43	16.0	25.66	22.50	10	71	38.75	1372	1372
5/1/2004	13:35	1.43	16.0	25.76			54.25		1372	1372

25.85

WEEK 10

BIOFOR -N		Instrument Readings								
Date	Time	Process air flow (scfm)	Backwash air flow (scfm)	Backwash flow (gpm)	Backwash tank level (in)	Inlet pressure (psi)	Headloss (iwc) Before BW	Headloss (iwc) After BW	Time till next BW (min)	Max time between BW (min)
4/27/2004	10:00	1.93	9.0	15.08	15	12	65	35	2812	2812
4/29/2004	10:00	2.01	9.0	15.15	15	11	46.5	36	2812	2812
5/1/2004	10:00	2.00	9.0	15.00	17.75		44.5	19.5	2812	2812

15.08

		Imhoff Cone Testing											
Week	Date	Biostyr				Biofor C				Biofor N			
		Time	Minutes	Volume (mL)	SVI	Time	Minutes	Volume (mL)	SVI	Time	Minutes	Volume (mL)	SVI
1	2/27/2004					14:15	15	13	41	11:40	15	2.7	19
							30	12.5			30	5.3	
2	3/2/2004					13:00	15	23	52	11:00	15	5	26
							30	24			30	7.5	
3	3/10/2004					14:30	15	45	27	10:55	15	15	38
							30	40			30	15.5	
3	3/14/2004					15:00			23	11:50			8
							30	18			30	0.4	
4	3/18/2004					14:22	15	37	41	11:20	15	12.5	54
							30	28			30	14	
4	3/20/2004					14:00	15		33	11:30	15	0.5	14
							30	50			30	1.5	
5	3/24/2004	12:20	15	50	56	14:25	15	35	37	11:10	15	1.5	19
			30	38			30	29			30	3.5	
5	3/26/2004	9:25	15	42	33	14:15	15	35	36	10:50	15	0.1	8
			30	30			30	30			30	1	
5	3/28/2004	9:30	15	28	47	14:45	15	25	34	11:45	15	2	14
			30	24			30	27			30	2.5	
6	4/1/2004	9:30	15	29	26	14:35	15	29	30	11:25	15	6.5	33
			30	21			30	24			30	7.5	
6	4/3/2004	10:00	15	100	57	13:30	15	35	33	13:00	15	7.5	37
			30	80			30	30			30	6	
7	4/9/2004	9:25	15	48		14:20	15	29		10:55	15	0.1	
			30	35			30	25			30	0.4	
8	4/17/2004	10:53	15	34		13:55	15	20			15		
			30	25			30	18			30		
9	4/21/2004	9:30	15	25		14:25	15	28		11:00	15	0	
			30	20			30	24			30	<0.1	
9	4/23/2004	9:25	15	40		14:15	15	18		10:55	15	0.2	
			30	35			30	15			30	0.2	
10	4/27/2004	9:25	15	32		14:25	15	25		11:00	15	4.5	
			30	25			30	22			30	3.5	
10	4/29/2004	9:30	15	32		14:15	15	27		10:55	15	1.3	
			30	25			30	22			30	2	
10	5/1/2004	9:30	15	25									
			30	19									

WEEK 11

13Inf		Portable Meter Readings				
Date	Time	Temperature (oC)	DO (mg/L)	pH	Turbidity (NTU)	UVT (%)
5/3/2004	6:50	25.0	0.05	6.77	73.5	13
	13:00	27.1	0.10	6.80	65.3	15
	22:00	23.5		6.80	72.4	12
5/4/2004	7:00	24.6	0.08	6.81	66.5	16
	13:00	26.3	0.09	6.85	62.0	21
	23:30	24.7	0.20	6.80	61.1	13
5/5/2004	6:45	24.6	0.06	6.78	72.3	13
	13:00	26.5	0.10	6.80	66.6	15
	23:00	24.5	0.10	6.87	78.1	23
5/6/2004	6:45	24.6	0.05	6.75	81.7	15
	13:00	26.6	0.10	6.89	67.1	11
	23:00	24.3	0.13	6.66	62.0	13
5/7/2004	6:55	25.2	0.06	6.86	58.6	17
	13:00	26.5	0.06	6.93	45.4	20
	22:00	25.0	0.10	6.88	52.8	21
5/8/2004	7:00	25.4	0.08	7.03	37.1	26
5/9/2004	2:00	24.2	0.10	6.69	51.0	19
	7:10	23.5	0.16	6.82	50.6	20
	13:35	26.2	0.12	6.94	30.7	18
	22:10	24.7	0.00	6.68	51.5	19
Min		23.5	0.0	6.7	30.7	11
Max		27.1	0.2	7.0	81.7	26
Avg		25.2	0.1	6.8	60.3	17

WEEK 11

		Instrument Readings-BIOSTYR						Portable Meter Readings-13BSEff				
Date	Time	Process air flow (csfm)	Influent flow (gpm)	Effluent DO (mg/L)	Effluent pH	Inlet pressure (psi)	Headloss (iwc)	Temperature (^{o}C)	DO (mg/L)	pH	Turbidity (NTU)	UVT (%)
5/3/2004	6:45	1.7	7.6	0.4	6.7	301.0	94.0	24.5	3.0	6.73	13.7	40
	13:00	1.7	7.5	0.5	6.8	242.9	35.7	27.9	3.1	6.82	15.5	40
	22:00	1.7	7.5	0.4	6.8	287.0	0.7	22.4		6.40	12.7	40
5/4/2004	6:50	3.0	0.0	0.6	6.7	210.0	0.0	23.6	3.0	6.80	12.0	41
	13:00	1.7	7.5	0.5	6.8	231.1	23.4	26.4	3.4	6.85	15.3	47
	23:30	1.7	7.5	0.3	6.7	276.6	69.3	24.2	2.8	6.50	10.3	44
5/5/2004	6:40	1.7	7.5	0.1	6.7	301.0	93.6	23.8	2.8	6.75	12.3	42
	13:00	1.7	7.5	0.1	6.9	236.9	29.7	26.6	3.4	6.81	14.2	42
	23:00	1.7	7.5	0.1	6.6	297.0	91.0	23.6	3.2	6.92	12.0	47
5/6/2004	6:45	0.0	0.0	0.0	6.6	191.0	0.0	22.7	3.5	6.70	16.5	39
	13:00	2.0	7.2	0.1	6.1	232.6	25.1	25.7	4.1	6.87	36.5	38
	23:00	2.0	7.6	0.1	6.1	284.6	78.1	23.2	4.2	6.98	15.9	45
5/7/2004	6:50	2.0	7.6	0.1	6.1	300.0	94.0	24.1	3.9	6.82	18.0	41
	13:00	2.0	7.5	0.0	6.2	231.0	23.6	23.7	2.2	6.94	34.8	38
	22:00	2.0	7.5	4.4	6.8	227.0	20.1	24.6	4.6	7.00	13.9	44
5/8/2004	7:15	2.0	7.6	4.5	6.8	266.0	58.6	24.4	4.1	7.02	8.1	53
5/9/2004	2:00	1.7	7.4	3.4		297.2	90.5	23.1	3.8	6.58	8.9	50
	7:15	1.7	7.5	3.1	6.7	252.7	45.3	24.1	3.5	6.84	9.0	47
	13:40	0.0	7.5	0.0	6.4	228.8	21.5	26.2	0.1	6.71	27.3	23
	22:10	1.7	7.2	1.2	6.3	270.5	63.5	23.4	3.5	6.65	11.7	50
Min		0.0	0.0	0.0	6.1	191.0	0.0	22.4	0.1	6.4	8.1	23
Max		3.0	7.6	4.5	6.9	301.0	94.0	27.9	4.6	7.0	36.5	53
Avg		1.7	6.7	1.0	6.6	258.2	47.9	24.4	3.3	6.8	15.9	43

WEEK 11

		Instrument Readings-BIOFOR C			Portable Meter Readings-13BFCEff				
Date	Time	Process air flow (csfm)	Influent flow (gpm)	Column pressure (psi)	Temperature (oC)	DO (mg/L)	pH	Turbidity (NTU)	UVT (%)
5/3/2004	6:40	1.39	4.40	9.2	24.6	4.3	6.9	10.50	54
	13:00	1.41	5.44	7.5	27.7	4.8	6.83	12.80	41
	22:00	1.40	3.30	3.1	23.8		7	5.80	53
5/4/2004	6:45	1.42	2.30	9.0	24.2	4.9	6.93	4.97	60
	13:00	1.40	6.27	8.5	26.4	6.5	6.87	4.79	58
	23:30	1.42	6.34	3.6	24.1	5.2	6.90	10.00	48
5/5/2004	6:35	1.45	6.40	9.8	24.2	5.1	6.90	8.96	52
	13:00	1.45	6.23	10.0	26.4	5.0	6.85	7.63	50
	23:00	1.42	6.27	10.0	23.9	5.2	6.82	5.04	54
5/6/2004	6:30	1.43	6.30	10.0	23.7	5.0	6.85	5.35	55
	13:00	1.41	6.43	7.5	25.9	5.4	7.0	9.54	48
	23:00	1.41	6.29	9.0	22.9	7.0	6.7	3.19	60
5/7/2004	6:45	1.44	6.30	9.7	24.8	4.6	6.90	9.00	45
	13:00	1.40	6.32	9.0	26.3	4.6	6.90	24.80	37
	22:00	1.44	6.22	9.0	25.0	3.3	7.00	8.08	46
5/8/2004	7:15	1.45	6.22	10.0	24.5	3.5	7.04	15.20	54
5/9/2004	2:00	1.45	4.00	9.0	23.9	5.3	6.88	7.55	60
	7:20	1.46	6.27	10.0	24.0	3.5	6.97	8.97	56
	13:25	1.50	5.98	8.5	25.9	4.2	6.92	17.10	50
	22:10	1.41	6.33	9.0	24.0	4.5	6.82	9.07	54
Min		1.4	2.3	3.1	22.9	3.3	6.7	3.2	37
Max		1.5	6.4	10.0	27.7	7.0	7.0	24.8	60
Avg		1.4	5.7	8.6	24.8	4.8	6.9	9.4	52

WEEK 11

		Instrument Readings-BIOFOR N			Portable Meter Readings-13BFNEff				
Date	Time	Process air flow (csfm)	Influent flow (gpm)	Column pressure (psi)	Temperature (oC)	DO (mg/L)	pH	Turbidity (NTU)	UVT (%)
5/3/2004	6:55	2.0	4.20	7.9	24.6	6.6	6.6	2.04	63
	13:00	2.0	5.91	6.0	28.3	5.9	6.68	11.20	57
	22:00	2.00	5.74	8.5	24.2		6.60	4.80	58
5/4/2004	6:40	2.10	6.10	8.0	23.5	6.2	6.32	3.43	62
	13:00	2.09	5.41	7.0	26.4	6.0	6.55	2.65	65
	23:30	2.14	5.14	9.0	24.4	5.9	6.60	3.00	58
5/5/2004	6:30	2.15	5.00	8.0	23.5	6.9	6.40	2.92	59
	13:00	2.09	5.83	7.0	25.8	6.4	6.62	7.37	60
	23:00	2.18	5.72	8.0	23.5	6.1	6.48	2.85	61
5/6/2004	6:30	2.17	5.70	8.2	23.0	6.4	6.30	2.03	63
	14:30	2.01	5.80	6.5	25.1	7.5	6.87	3.64	64
	23:00	2.13	5.56	8.0	23.3	5.3	7.06	6.54	50
5/7/2004	6:40	2.12	5.40	7.9	23.8	6.6	6.58	2.66	59
	13:00	2.11	5.71	7.5	26.1	6.7	6.62	6.64	56
	22:00	2.16	4.99	7.5	24.7	6.8	6.56	4.00	60
5/8/2004	7:30	2.14	4.73	8.0	23.7	5.8	6.7	2.52	63
5/9/2004	2:00	2.11	4.85	8.0	22.8	6.9	6.49	2.65	65
	7:22	2.12	4.87	8.0	23.9	6.1	6.5	3.53	62
	13:30	2.00	5.51	7.0	26.1	6.2	6.64	4.20	58
	22:10	2.10	5.93	8.0	24.3	5.9	6.37	3.46	61
Min		2.0	4.2	6.0	22.8	5.3	6.3	2.0	50
Max		2.2	6.1	9.0	28.3	7.5	7.1	11.2	65
Avg		2.1	5.4	7.7	24.6	6.3	6.6	4.1	60

WEEK 11

BIOSTYR		Instrument Readings										
Date	Time	Process air flow (scfm)	Backwash air flow (scfm)	Backwash flow (gpm)	Effluent DO(mg/L)	Effluent pH	Inlet pressure (psi)	Headloss (iwc) Before BW	Headloss (iwc) After BW	Backwash tank level (in)	Time till next BW (min)	Max time between BW (min)
5/5/2004	9:00	1.70	3.0	89.20	0.20	6.70	202.1		14.8	24	1415	1440
5/9/2004	9:05	0.00	3.0	90.90	2.10	6.90	117.6	0	0	41	1440	1440

90.05

WEEK 10

BIOFOR -C		Instrument Readings								
Date	Time	Process air flow (scfm)	Backwash air flow (scfm)	Backwash flow (gpm)	Backwash tank level (in)	Inlet pressure (psi)	Headloss (iwc)		Time till next BW (min)	Max time between BW (min)
							Before BW	After BW		
5/5/2004	13:30	1.51	16.0	25.85	24.00	9	76	29.6	1370	1370
5/7/2004	13:30	1.41	16.0	25.81	24.00	9	70	24	1370	1370
5/9/2004	13:35	1.40	16.0	26.00	26.50	8	65.5		1372	1372

WEEK 10

BIOFOR -N		Instrument Readings								
Date	Time	Process air flow (scfm)	Backwash air flow (scfm)	Backwash flow (gpm)	Backwash tank level (in)	Inlet pressure (psi)	Headloss (iwc) Before BW	Headloss (iwc) After BW	Time till next BW (min)	Max time between BW (min)
5/5/2004	10:00	2.02	9.0	15.53	14.25	10	28	23	2812	2812
5/7/2004	10:00	2.13	9.0	15.10	15	8	29	23	2812	2812
5*9	10:10	2.00	9.0	15.00	17.25	7.5	33.5	25	2812	2812

		Imhoff Cone Testing											
Week	Date	Biostyr				Biofor C				Biofor N			
		Time	Minutes	Volume (mL)	SVI	Time	Minutes	Volume (mL)	SVI	Time	Minutes	Volume (mL)	SVI
1	2/27/2004					14:15	15	13	41	11:40	15	2.7	19
							30	12.5			30	5.3	
2	3/2/2004					13:00	15	23	52	11:00	15	5	26
							30	24			30	7.5	
3	3/10/2004					14:30	15	45	27	10:55	15	15	38
							30	40			30	15.5	
3	3/14/2004					15:00			23	11:50			8
							30	18			30	0.4	
4	3/18/2004					14:22	15	37	41	11:20	15	12.5	54
							30	28			30	14	
4	3/20/2004					14:00	15		33	11:30	15	0.5	14
							30	50			30	1.5	
5	3/24/2004	12:20	15	50	56	14:25	15	35	37	11:10	15	1.5	19
			30	38			30	29			30	3.5	
5	3/26/2004	9:25	15	42	33	14:15	15	35	36	10:50	15	0.1	8
			30	30			30	30			30	1	
5	3/28/2004	9:30	15	28	47	14:45	15	25	34	11:45	15	2	14
			30	24			30	27			30	2.5	
6	4/1/2004	9:30	15	29	26	14:35	15	29	30	11:25	15	6.5	33
			30	21			30	24			30	7.5	
6	4/3/2004	10:00	15	100	57	13:30	15	35	33	13:00	15	7.5	37
			30	80			30	30			30	6	
7	4/9/2004	9:25	15	48	30	14:20	15	29	27	10:55	15	0.1	4
			30	35			30	25			30	0.4	
8	4/17/2004	10:53	15	34	51	13:55	15	20	42		15		
			30	25			30	18			30		
9	4/21/2004	9:30	15	25	33	14:25	15	28	35	11:00	15	0	2
			30	20			30	24			30	<0.1	
9	4/23/2004	9:25	15	40	31	14:15	15	18	27	10:55	15	0.2	7
			30	35			30	15			30	0.2	
10	4/27/2004	9:25	15	32	29	14:25	15	25	41	11:00	15	4.5	18
			30	25			30	22			30	3.5	
10	4/29/2004	9:30	15	32	28	14:15	15	27	36	10:55	15	1.3	29
			30	25			30	22			30	2	
11	5/5/2004	9:30	15	33	29	14:15	15	31	35	11:00	15	0	0
			30	27			30	24			30	0.1	
11	5/7/2004					14:15	15	25		10:45	15	0.3	
							30	24			30	0.5	

WEEK 12

13Inf		Portable Meter Readings				
Date	Time	Temperature (oC)	DO (mg/L)	pH	Turbidity (NTU)	UVT (%)
5/10/2004	6:40	24.9	0.07	6.81	71.2	18
	13:00	25.6	0.08	6.87	41.4	19
5/11/2004	1:15	24.6	0.00	6.67	49.3	14
	7:30	24.2	0.09	6.76	61.6	16
	13:00	26.6	0.08	6.87	50.2	15
5/12/2004	1:15	24.0	0.00	6.67	53.5	13
	7:10	25.0	0.06	6.81	72.6	15
	13:00	26.6	0.10	6.97	44.6	19
	22:20	24.2	0.09	6.94	46.5	19
5/13/2004		25.3	0.06	6.80	54.0	16
	13:05	26.7	0.10	6.95	31.0	22
	22:00	25.1	0.10	6.86	37.1	17
5/14/2004	7:15	24.6	0.09	6.84	62.2	21
	13:00	26.8	0.05	6.93	33.7	18
	22:00	25.2	0.09	6.87	50.6	18
5/15/2004	7:30	25.8	0.09	6.91	43.2	18
	14:40	26.2	0.08	6.94	47.7	17
	23:00	24.4	0.20	6.74	55.2	15
5/16/2004	7:15	23.8	0.08	6.88	50.5	18
	22:30	24.1	0.20	6.86		12
Min		23.8	0.0	6.7	31.0	12
Max		26.8	0.2	7.0	72.6	22
Avg		25.2	0.1	6.8	50.3	17

WEEK 12

		Instrument Readings-BIOSTYR						Portable Meter Readings-13BSEff					
Date	Time	Process air flow (csfm)	Influent flow (gpm)	Effluent DO (mg/L)	Effluent pH	Inlet pressure (psi)	Headloss (iwc)	Temperature (^{o}C)	DO (mg/L)	pH	Turbidity (NTU)	UVT (%)	
5/10/2004	6:40	1.7	7.2	0.6	6.3	242.8	35.4	23.4	3.2	6.83	11.2	47	
	13:00	1.7	7.3	0.2	6.3	237.6	30.4	25.1	3.0	6.79	14.0	46	
5/11/2004	1:15	1.7	6.5	0.0	6.3	278.1	71.4	23.1	3.0	6.63	13.3	43	
	7:30	1.7	6.4	0.0	6.8	240.0	33.6	23.1	2.4	6.82	16.6	41	
	13:00	1.7	7.5	3.4	6.8	230.1	22.8	26.3	3.1	6.78	22.6	36	
5/12/2004	1:15	1.7	7.5	2.3	6.8	265.0	57.3	22.8	4.2	6.73	11.6	50	
	7:10	1.7	7.5	1.4	6.8	285.0	77.5	24.0	3.1	6.82	12.6	47	
	13:00	1.7	7.6	1.4	6.8	229.9	22.4	26.6	3.4	6.89	15.6	44	
	22:20	1.7	7.5	3.6	6.8	257.7	49.9	23.4	3.9	6.88	13.6	50	
5/13/2004		1.7	7.4	2.1	6.8	281.0	73.0	24.1	3.4	6.82	12.6	49	
	13:05	1.7	7.4	2.1	6.8	230.6	23.6	26.5	3.3	6.84	14.3	48	
	22:00	2.0	7.5	4.1	6.8	225.0	18.0	24.5	5.0	6.99	11.8	51	14.2
5/14/2004	7:15	1.6	7.5	3.9	6.8	254.7	47.2	23.8	4.8	6.87	5.0	57	7.9
	13:00	1.0	7.5	1.0	6.8	227.1	19.9	26.6	2.3	6.83	8.8	47	
	22:00	2.0	7.5	2.9	6.7	249.0	43.5	24.7	4.6	6.92	7.0	53	
5/15/2004	7:30	2.0	7.4	2.3	6.7	286.7	78.7	25.0	3.7	6.98	8.3	55	
	14:40	2.0	7.5	2.0	6.8	230.4	22.8	25.4	3.9	6.94	7.9	56	
	23:00	1.5	7.4	2.0	6.7	269.3	60.7	23.6	4.2	6.81	8.2	53	
5/16/2004	7:15	2.0	7.5	1.9	6.7	299.0	92.2	23.9	4.2	6.96	9.9	54	
	22:30	1.5	7.5	2.3	6.7	259.7	52.4	23.1	4.2	6.93	28.4	38	
Min		1.0	6.4	0.0	6.3	225.0	18.0	22.8	2.3	6.6	5.0	36	
Max		2.0	7.6	4.1	6.8	299.0	92.2	26.6	5.0	7.0	28.4	57	
Avg		1.7	7.4	2.0	6.7	253.9	46.6	24.5	3.6	6.9	12.7	48	

WEEK 12

		Instrument Readings-BIOFOR C			Portable Meter Readings-13BFCEff				
Date	Time	Process air flow (csfm)	Influent flow (gpm)	Column pressure (psi)	Temperature (oC)	DO (mg/L)	pH	Turbidity (NTU)	UVT (%)
5/10/2004	6:40	1.40	6.12	9.8	23.6	4.6	6.97	15.70	52
	13:00	1.43	6.25	10.0	25.4	3.6	6.86	32.20	48
5/11/2004	1:15	1.40	6.30	9.0	23.6	4.3	6.76	14.50	46
	7:30	1.44	7.20	10.0	23.4	3.2	6.92	22.50	46
	13:00	1.44	6.24	9.5	25.9	2.3	6.71	26.10	44
5/12/2004	1:15	1.40	4.51	9.0	23.5	4.6	6.84	9.19	52
	7:10	1.40	4.70	9.4	24.2	4.4	6.83	13.50	52
	13:00	1.50	5.51	8.5	26.6	3.1	6.93	21.90	49
	22:15	1.39	3.76	8.5	22.8	6.4	6.29	3.79	62
5/13/2004		1.43	3.10	9.0	23.8	5.6	6.93	4.44	60
	13:05	1.47	6.27	9.0	26.4	4.9	6.83	6.61	55
	22:00	1.42	6.26	9.0	25.0	2.0	7.0	10.10	45
5/14/2004	7:15	2.40	6.37	8.5					
	13:00	1.45	6.47	8.0	26.5	3.2	7.10	149.0	10
	22:00	2.46	6.05	9.0	24.9	5.7	6.91	11.50	45
5/15/2004	7:45	2.44	6.30	9.0	25.3	4.5	7.02	6.74	56
	14:50	1.45	6.35	9.0	25.8	5.2	7.08	7.72	55
	23:00	1.47	5.81	10.0	23.2	4.3	6.83	14.50	48
5/16/2004	7:22	1.47	6.14	9.5	24.1	3.6	7.05	13.00	53
	22:30	1.49	7.45	9.0	22.5	4.4	7.08	8.49	48
Min		1.4	3.1	8.0	22.5	2.0	6.3	3.8	10
Max		2.5	7.5	10.0	26.6	6.4	7.1	149.0	62
Avg		1.6	5.9	9.1	24.6	4.2	6.9	20.6	49

WEEK 12

		Instrument Readings-BIOFOR N			Portable Meter Readings-13BFNEff				
Date	Time	Process air flow (csfm)	Influent flow (gpm)	Column pressure (psi)	Temperature (oC)	DO (mg/L)	pH	Turbidity (NTU)	UVT (%)
5/10/2004	6:40	2.0	5.68	7.0	23.6	4.6	7.0	15.70	52
	13:00	2.1	5.43	8.0	24.2	6.6	6.53	2.51	64
5/11/2004	1:15	2.09	4.78	8.0	23.1	6.6	6.39	2.37	61
	7:30	2.10	4.60	8.0	22.3	6.6	6.57	2.67	60
	13:00	2.05	5.72	7.5	24.6	6.4	6.61	4.27	61
5/12/2004	1:15	2.10	5.11	8.0	22.8	6.9	6.25	2.41	61
	7:10	2.00	4.86	8.0	24.0	6.7	6.40	2.62	62
	13:00	2.01	5.76	7.5	25.6	6.0	6.46	2.94	61
	22:15	2.10	6.15	8.0	23.3	5.6	7.12	6.05	56
5/13/2004		0.00		6.8	22.6	5.7	6.30	2.89	64
	13:05	2.07	5.80	7.5	26.0	6.0	6.55	3.94	62
	22:00	2.11	5.75	8.0	24.5	5.8	6.33	3.76	58
5/14/2004	7:15	2.11	5.60	8.5	23.2	5.8	6.40	4.85	54
	13:00	2.08	5.86	8.0	26.1	5.4	6.52	11.70	51
	22:00	2.14	5.73	8.5	25.2	5.9	6.26	5.99	58
5/15/2004	7:45	2.14	5.72	8.5	24.6	5.3	6.9	3.45	63
	15:00	2.10	5.76	7.0	25.1	5.3	6.88	4.58	62
	23:00	2.10	5.15	8.0	22.0	6.7	6.64	2.78	59
5/16/2004	7:25	2.09	5.06	7.5	23.1	6.4	7.1	3.03	62
	22:30	2.06	0.00	7.0					
Min		0.0	0.0	6.8	22.0	4.6	6.3	2.4	51
Max		2.1	6.2	8.5	26.1	6.9	7.1	15.7	64
Avg		2.0	5.2	7.8	24.0	6.0	6.6	4.7	60

WEEK 12

BIOSTYR		Instrument Readings										
Date	Time	Process air flow (scfm)	Backwash air flow (scfm)	Backwash flow (gpm)	Effluent DO(mg/L)	Effluent pH	Inlet pressure (psi)	Headloss (iwc) Before BW	Headloss (iwc) After BW	Backwash tank level (in)	Time till next BW (min)	Max time between BW (min)
5/11/2004	9:00	1.70	3.0	91.40	0.00	7.00	202.3	40.7	13.1	41.25	1419	1440
5/13/2004	9:00		3.0	90.80	1.40	6.90	121.6	78.2	8.5	29.5	1420	1440
5/15/2004	9:00	2.00	3.0	88.90	2.10	6.70	178.8	83	6.5	29.5	1433	1440

90.37

WEEK 12

BIOFOR -C		Instrument Readings								
Date	Time	Process air flow (scfm)	Backwash air flow (scfm)	Backwash flow (gpm)	Backwash tank level (in)	Inlet pressure (psi)	Headloss (iwc) Before BW	Headloss (iwc) After BW	Time till next BW (min)	Max time between BW (min)
5/11/2004	13:30	1.56	16.0	25.74	23.75	9 7	68	31	1372	1372
5/13/2004	13:30	1.48	16.0	25.57	23.00	9 7.5	57	33	1370	1370
5/15/2004	13:30	1.45	16.0	26.50	22.00	9	66	23.5	1372	1372

25.94

WEEK 12

BIOFOR -N		Instrument Readings								
Date	Time	Process air flow (scfm)	Backwash air flow (scfm)	Backwash flow (gpm)	Backwash tank level (in)	Inlet pressure (psi)	Headloss (iwc) Before BW	Headloss (iwc) After BW	Time till next BW (min)	Max time between BW (min)
5/11/2004	10:00	1.96	9.0	15.31	14.25	8 7.5	31	27.75	2812	2812
5/13/2004	10:00	2.01	9.0	15.28	14.75	8 10.5	39.5	31	2812	2812
5/15/2004	9:55	2.03	9.0	15.00	15	10.5	49.5	23	2812	2812

		Imhoff Cone Testing											
Week	Date	Biostyr				Biofor C				Biofor N			
		Time	Minutes	Volume (mL)	SVI	Time	Minutes	Volume (mL)	SVI	Time	Minutes	Volume (mL)	SVI
1	2/27/2004					14:15	15	13	41	11:40	15	2.7	19
							30	12.5			30	5.3	
2	3/2/2004					13:00	15	23	52	11:00	15	5	26
							30	24			30	7.5	
3	3/10/2004					14:30	15	45	27	10:55	15	15	38
							30	40			30	15.5	
3	3/14/2004					15:00			23	11:50			8
							30	18			30	0.4	
4	3/18/2004					14:22	15	37	41	11:20	15	12.5	54
							30	28			30	14	
4	3/20/2004					14:00	15		33	11:30	15	0.5	14
							30	50			30	1.5	
5	3/24/2004	12:20	15	50	56	14:25	15	35	37	11:10	15	1.5	19
			30	38			30	29			30	3.5	
5	3/26/2004	9:25	15	42	33	14:15	15	35	36	10:50	15	0.1	8
			30	30			30	30			30	1	
5	3/28/2004	9:30	15	28	47	14:45	15	25	34	11:45	15	2	14
			30	24			30	27			30	2.5	
6	4/1/2004	9:30	15	29	26	14:35	15	29	30	11:25	15	6.5	33
			30	21			30	24			30	7.5	
6	4/3/2004	10:00	15	100	57	13:30	15	35	33	13:00	15	7.5	37
			30	80			30	30			30	6	
7	4/9/2004	9:25	15	48	30	14:20	15	29	27	10:55	15	0.1	4
			30	35			30	25			30	0.4	
8	4/17/2004	10:53	15	34	51	13:55	15	20	42		15		
			30	25			30	18			30		
9	4/21/2004	9:30	15	25	33	14:25	15	28	35	11:00	15	0	2
			30	20			30	24			30	<0.1	
9	4/23/2004	9:25	15	40	31	14:15	15	18	27	10:55	15	0.2	7
			30	35			30	15			30	0.2	
10	4/27/2004	9:25	15	32	29	14:25	15	25	41	11:00	15	4.5	18
			30	25			30	22			30	3.5	
10	4/29/2004	9:30	15	32	28	14:15	15	27	36	10:55	15	1.3	29
			30	25			30	22			30	2	
11	5/5/2004	9:30	15	33	29	14:15	15	31	35	11:00	15	0	0
			30	27			30	24			30	0.1	
11	5/7/2004					14:15	15	25		10:45	15	0.3	
							30	24			30	0.5	
12	5/13/2004	9:25	15	19		14:15	15	24		11:00	15	<0.1	
			30	16			30	18			30	<0.1	
12	5/15/2004	9:25	15	17		15:00	15	45		12:00	15	20	
			30	13			30	40			30	17	

WEEK 13

13Inf		Portable Meter Readings				
Date	Time	Temperature (oC)	DO (mg/L)	pH	Turbidity (NTU)	UVT (%)
5/17/2004		22.9	0.14	7.04	145.0	5
	15:15	26.4	0.60	7.05	45.9	20
5/18/2004	1:40	24.3	0.20	7.04	63.0	15
	6:55	24.9	0.43	6.90	61.8	18
	13:00	26.8	0.10			
	23:00	23.2	0.10	6.84	84.0	14
5/19/2004		25.3	0.06	7.02	67.4	16
	13:00	26.8	0.10	6.85	47.1	19
	22:00	25.6	0.09	6.90	46.6	16
5/20/2004		25.7	0.04	6.89	54.0	20
	13:00	26.9	0.05	7.09	37.2	17
	22:00	25.2	0.12	7.00	44.4	19
5/21/2004		25.7	0.07	7.02	52.3	18
	13:00	26.6	0.10	6.92	47.3	19
	22:00	25.2	0.10	6.94	42.7	18
5/22/2004	7:15	25.4	0.08	6.79	51.0	18
	9:02	25.2	0.13	6.74	47.6	19
5/23/2004	7:00	25.4	0.09	6.85	33.0	27
	14:30	25.6	0.12	6.88	39.0	25
5/24/2004	1:00	24.4	0.10	6.80		21
Min		22.9	0.0	6.7	33.0	5
Max		26.9	0.6	7.1	145.0	27
Avg		25.4	0.1	6.9	56.1	18

WEEK 13

		Instrument Readings-BIOSTYR						Portable Meter Readings-13BSEff				
Date	Time	Process air flow (csfm)	Influent flow (gpm)	Effluent DO (mg/L)	Effluent pH	Inlet pressure (psi)	Headloss (iwc)	Temperature (^{o}C)	DO (mg/L)	pH	Turbidity (NTU)	UVT (%)
5/17/2004		2.0	6.1	2.0	6.7	289.0	70.0	23.8	4.5	6.98	6.7	56
	15:15	5.0	7.6	4.0	6.8	203.2	17.7	24.6	4.0	7.07		
5/18/2004	1:40	1.5	7.5	3.4	6.8	228.9	21.3	23.9	4.5	7.01	8.0	50
	7:55					189.0						
	13:00	2.0	7.5	3.0	6.8	219.9	12.0	26.8	4.1	6.89	12.2	50
	23:00	1.5	4.5	0.1	6.7	268.1	61.3	22.4	3.8	6.94	7.1	37
5/19/2004		2.0	7.5	4.0	6.7	261.0	54.0	24.4	3.8	6.95	10.2	49
	13:00	2.0	7.5	3.9	6.8	223.1	15.7	26.6	3.9	6.84	14.0	44
	22:00	2.0	7.5	3.9	6.8	250.0	42.7	25.0	4.0	6.87	13.4	46
5/20/2004		2.0	7.5	3.2	6.7	290.0	82.0	24.8	3.7	6.80	10.1	49
	13:00	2.0	7.5	3.5	6.8	227.2	19.9	26.1	4.2	7.01	13.4	48
	22:00	7.5	7.4	2.2	6.7	266.2	58.7	24.7	4.0	6.95	7.7	49
5/21/2004		2.0	7.4	2.8	6.7	294.3	87.1	24.5	4.4	6.98		51
	13:00	2.0	7.5	2.9	6.8	229.1	21.7	26.1	4.3	7.02	10.9	48
	22:00	2.0	7.5	1.6	6.7	263.0	55.5	24.5	4.1	7.02	8.7	46
5/22/2004	7:25	2.0	7.6	2.1	6.7	229.5	21.8	24.1	3.7	6.89	36.4	41
	8:55	2.0	7.5	1.8	6.8	235.6	28.5	24.8	3.9	6.84	9.1	37
5/23/2004	7:00	2.0	7.5	1.5	6.7	290.3	82.3	24.6	3.9	6.91	9.1	59
	14:45	2.0	7.5	1.7	6.8	228.3	21.4	24.9	4.0	6.93	11.2	58
5/24/2004	1:00	2.0	7.5	4.1	6.7	259.6	51.9	23.5	4.0	6.80	6.6	50
Min		1.5	4.5	0.1	6.7	189.0	12.0	22.4	3.7	6.8	6.6	37
Max		7.5	7.6	4.1	6.8	294.3	87.1	26.8	4.5	7.1	36.4	59
Avg		2.4	7.3	2.7	6.7	247.3	43.4	24.7	4.0	6.9	11.5	48

WEEK 13

		Instrument Readings-BIOFOR C			Portable Meter Readings-13BFCEff				
Date	Time	Process air flow (csfm)	Influent flow (gpm)	Column pressure (psi)	Temperature (oC)	DO (mg/L)	pH	Turbidity (NTU)	UVT (%)
5/17/2004					24.3	3.2	7.03	30.50	45
	15:15	1.48	5.83	7.5	25.7	4.6	7.16	21.40	40
5/18/2004	1:40	1.50	6.32	10.0	23.5	3.8	7.07	25.50	40
	7:45	1.50	6.19	9.0	23.1	3.8	7.33	38.10	41
	13:00	1.48	5.61	8.0	26.7	3.8	6.96	15.80	41
	23:00	1.47	6.24	10.0	21.6	5.2	7.07	11.40	47
5/19/2004		1.53	4.7-6.8	9.8	24.4	3.0	6.97	32.90	41
	13:00	1.47	6.20	8.0	26.0	3.7	6.94	19.20	36
	22:00	1.56	6.30	9.0	24.7	3.2	6.96	15.90	44
5/20/2004		1.54	6.28	9.7	24.4	2.5	6.87	33.50	39
	13:00	1.46	6.12	8.0	26.1	3.4	7.07	22.00	40
	22:00	1.54	5.96	9.5	24.4	2.9	7.0	18.60	41
5/21/2004		1.50	4.53	9.0	24.3	2.5	7.09	19.20	44
	13:00	1.53	6.02	7.5	26.3	3.6	7.03	17.4	40
	22:00	1.53	6.24	9.5	24.5	2.4	7.07	22.40	37
5/22/2004	7:28	1.54	7.31	10.0	24.3	2.2	6.95	43.90	38
	9:08	1.52	6.07	10.0	25.1	2.2	6.92	47.20	36
5/23/2004	7:30	1.50	6.50	9.5	24.5	2.8	6.98	18.10	53
	14:45	1.45	6.28	8.0	24.8	2.9	7.01	17.10	54
5/24/2004	1:00	1.50	6.30	8.0	23.2	3.0	6.80	8.10	48
Min		1.5	4.5	7.5	21.6	2.2	6.8	8.1	36
Max		1.6	7.3	10.0	26.7	5.2	7.3	47.2	54
Avg		1.5	6.1	8.9	24.6	3.2	7.0	23.9	42

WEEK 13

		Instrument Readings-BIOFOR N			Portable Meter Readings-13BFNEff				
Date	Time	Process air flow (csfm)	Influent flow (gpm)	Column pressure (psi)	Temperature (oC)	DO (mg/L)	pH	Turbidity (NTU)	UVT (%)
5/17/2004			no flow						
	15:15	2.1	0.00	6.0					
5/18/2004	1:40	2.09	1.67	8.0	21.9	7.2	6.65	2.79	59
	7:40	2.00	1.60	7.0	23.6	7.5	7.10	4.60	62
	23:00	2.38	4.63	8.0	21.1	5.6	6.41	2.35	63
5/19/2004		2.12	1.30	7.7					
	13:00	2.09	2.16	6.5	23.7	6.1	7.26	5.68	60
	22:00	2.07	1.64	7.0	24.2	6.8	6.90	4.86	59
5/20/2004									
	13:00	2.09	2.21	7.0	24.3	6.8	7.25	4.34	59
	22:00	2.08	1.48	7.0	23.8	6.5	6.85	3.31	59
5/21/2004		2.08	1.20	6.3					
	13:00	2.02	1.54	7.0	24.2	7.0	7.07	6.12	59
	22:00	2.08	1.37	7.0	23.5	6.5	6.85	6.44	58
5/22/2004	7:30	2.08	1.23	7.5	22.8	7.6	7.0	3.40	54
	9:05	2.07	1.81	7.5	23.9	6.6	6.96	3.25	58
5/23/2004	7:45	2.07	0.80	7.0	22.9	6.0	6.9	3.52	68
	14:50	2.08	1.00	7.0	23.2	5.8	6.92	4.57	67
5/24/2004	1:00	2.00	0.00	8.4	21.1	7.2	7.00	2.70	67
Min		2.0	0.0	6.0	21.1	5.6	6.4	2.4	54
Max		2.4	4.6	8.4	24.3	7.6	7.3	6.4	68
Avg		2.1	1.5	7.2	23.2	6.6	6.9	4.1	61

WEEK 13

BIOSTYR		Instrument Readings										
Date	Time	Process air flow (scfm)	Backwash air flow (scfm)	Backwash flow (gpm)	Effluent DO(mg/L)	Effluent pH	Inlet pressure (psi)	Headloss (iwc) Before BW	Headloss (iwc) After BW	Backwash tank level (in)	Time till next BW (min)	Max time between BW (min)
5/17/2004	9:00		3.0	85.70	1.70	6.70	107.8			28	1423	1440
5/19/2004	9:00		3.0	103.50	2.50	6.80	199.1	63.7		35	1421	1440
5/21/2004	9:00		3.0	104.10	2.00	6.80	299.4-204.1	93.4		36	1419	1440
5/23/2004	9:00		3.0	102.00	1.50	6.70	184	0		37	1439	1440

WEEK 13

BIOFOR -C		Instrument Readings								
Date	Time	Process air flow (scfm)	Backwash air flow (scfm)	Backwash flow (gpm)	Backwash tank level (in)	Inlet pressure (psi)	Headloss (iwc) Before BW	Headloss (iwc) After BW	Time till next BW (min)	Max time between BW (min)
5/17/2004	13:30	1.42	16.0	26.54	23.00	8-7.5		28	1370	1370
5/19/2004	10:00	1.41	16.0	26.72	24.00	9	55	24	1372	1372
5/21/2004	10:00	1.45	16.0	26.32	24.00	8	>90	43.5	1372	1372
5/23/2004	10:00	1.40	16.0	26.00	21.00	10	53	20	1372	1372

WEEK 13

BIOFOR -N		Instrument Readings								
Date	Time	Process air flow (scfm)	Backwash air flow (scfm)	Backwash flow (gpm)	Backwash tank level (in)	Inlet pressure (psi)	Headloss (iwc) Before BW	Headloss (iwc) After BW	Time till next BW (min)	Max time between BW (min)
5/17/2004	11:44	2.11	9.0	15.53	10	9.5		6		
5/19/2004	13:30	2.14	9.0	15.07		9.5	7.75	6.5	2812	2812
5/21/2004	13:30	2.00	9.0	15.00		7.0	10.5	7	2812	2812
5/23/2004	14:30	2.03	9.0	15.00		9.0	11	7	2812	2812

		Imhoff Cone Testing											
Week	Date	Biostyr				Biofor C				Biofor N			
		Time	Minutes	Volume (mL)	SVI	Time	Minutes	Volume (mL)	SVI	Time	Minutes	Volume (mL)	SVI
1	2/27/2004					14:15	15	13	41	11:40	15	2.7	19
							30	12.5			30	5.3	
2	3/2/2004					13:00	15	23	52	11:00	15	5	26
							30	24			30	7.5	
3	3/10/2004					14:30	15	45	27	10:55	15	15	38
							30	40			30	15.5	
3	3/14/2004					15:00			23	11:50			8
							30	18			30	0.4	
4	3/18/2004					14:22	15	37	41	11:20	15	12.5	54
							30	28			30	14	
4	3/20/2004					14:00	15		33	11:30	15	0.5	14
							30	50			30	1.5	
5	3/24/2004	12:20	15	50	56	14:25	15	35	37	11:10	15	1.5	19
			30	38			30	29			30	3.5	
5	3/26/2004	9:25	15	42	33	14:15	15	35	36	10:50	15	0.1	8
			30	30			30	30			30	1	
5	3/28/2004	9:30	15	28	47	14:45	15	25	34	11:45	15	2	14
			30	24			30	27			30	2.5	
6	4/1/2004	9:30	15	29	26	14:35	15	29	30	11:25	15	6.5	33
			30	21			30	24			30	7.5	
6	4/3/2004	10:00	15	100	57	13:30	15	35	33	13:00	15	7.5	37
			30	80			30	30			30	6	
7	4/9/2004	9:25	15	48	30	14:20	15	29	27	10:55	15	0.1	4
			30	35			30	25			30	0.4	
8	4/17/2004	10:53	15	34	51	13:55	15	20	42		15		
			30	25			30	18			30		
9	4/21/2004	9:30	15	25	33	14:25	15	28	35	11:00	15	0	2
			30	20			30	24			30	<0.1	
9	4/23/2004	9:25	15	40	31	14:15	15	18	27	10:55	15	0.2	7
			30	35			30	15			30	0.2	
10	4/27/2004	9:25	15	32	29	14:25	15	25	41	11:00	15	4.5	18
			30	25			30	22			30	3.5	
10	4/29/2004	9:30	15	32	28	14:15	15	27	36	10:55	15	1.3	29
			30	25			30	22			30	2	
11	5/5/2004	9:30	15	33	29	14:15	15	31	35	11:00	15	0	0
			30	27			30	24			30	0.1	
11	5/7/2004					14:15	15	25		10:45	15	0.3	
							30	24			30	0.5	
12	5/13/2004	9:25	15	19		14:15	15	24		11:00	15	<0.1	
			30	16			30	18			30	<0.1	
12	5/15/2004	9:25	15	17		15:00	15	45		12:00	15	20	
			30	13			30	40			30	17	
13	5/17/2004	9:32	15	19		14:20	15	no separation		12:30	15	>0.1	
			30	16			30	49			30	>0.1	
13	5/23/2004	9:30	15	25		11:00	15	no separation					
			30	22			30	80					

WEEK 14

13Inf		Portable Meter Readings				
Date	Time	Temperature (oC)	DO (mg/L)	pH	Turbidity (NTU)	UVT (%)
5/24/2004	7:00	22.6	1.20	6.65	68.1	15
	13:00	26.3	0.10	6.97	34.1	20
5/25/2004	0:00	22.6	0.20	7.10	71.0	17
	7:00	21.4	0.50	7.02	65.4	13
	13:00	26.5	0.10	6.88	36.8	
5/26/2004	0:30	23.6	0.20	6.80	58.0	20
	6:35	25.6	0.03	6.94	62.8	14
	13:00	26.6	0.06	7.00	49.2	15
	23:00	25.2	0.80	6.95	63.2	48
5/27/2004		25.3	0.05	6.85	82.9	10
	13:00	26.6	0.10	6.75	39.5	14
	23:00	25.0	0.90	6.72	51.4	15
5/28/2004		25.5	0.04	6.83	79.7	13
	13:00	25.8	0.10	6.82	48.1	16
	23:00	25.1	0.80	6.86	63.0	13
5/29/2004	8:05	23.4	0.09	6.67	43.0	18
	13:00	25.4	0.09	6.75	63.5	19
	14:20	23.4	0.08	6.78	51.6	
	23:00	25.0	0.90	6.95	65.0	14
5/30/2004	7:00	25.8	0.06	6.91	42.8	20
	12:00	25.9	0.07	6.94	45.3	19
Min		21.4	0.03	6.7	34.1	10
Max		26.6	1.2	7.1	82.9	48
Avg		24.9	0.3	6.9	56.4	18

WEEK 14

		Instrument Readings-BIOSTYR						Portable Meter Readings-13BSEff					
Date	Time	Process air flow (csfm)	Influent flow (gpm)	Effluent DO (mg/L)	Effluent pH	Inlet pressure (psi)	Headloss (iwc)	Temperature (^{o}C)	DO (mg/L)	pH	Turbidity (NTU)	UVT (%)	
5/24/2004	7:00	2.0	7.4	3.2	6.7	297.0	90.1	20.2	4.8	7.10	8.1	52	
	13:00	2.0	7.5	2.4	6.8	229.2	21.4	25.6	3.6	6.84	13.1	44	
5/25/2004	0:00	2.0	7.5	2.4	6.8	268.0	60.0	22.9	3.7	7.00	8.4	42	
	7:00	2.0	7.4	1.8	6.8	225.9	18.9	20.3	3.4	7.06	102.0	29	
	13:00	2.0	7.2	1.4	6.9	226.0	18.6	26.2	3.4	6.95	11.8		
5/26/2004	0:30	2.0	6.9	3.9	6.8	256.0	49.0	23.6	4.2	6.90	6.6	48	
	6:35	2.0	6.8	3.6	6.8	280.0	72.0	24.5	3.9	7.00	6.8	51	
	13:00	2.0	6.9	3.2	6.9	224.1	16.7	26.3	3.5	7.08	12.7	43	
	23:00	2.0	6.7	3.1	6.8	264.0	57.8	23.6	3.9	7.05	9.2	48	
5/27/2004		2.0	6.8	2.1	6.8	297.0	90.0	24.6	3.4	6.97	10.4	50	
	13:00	2.0	7.0	3.7	6.9	229.6	22.2	25.9	3.2	6.89	12.5	44	
	23:00	2.0	7.5	3.1	6.7	294.0	87.0	24.4	3.2	6.99	10.0	50	17.6
5/28/2004		2.0	7.4	6.7	294.0	87.0							10.4
	13:00	2.0	7.5	2.9	6.9	224.8	17.2	25.3	3.5	6.96	12.7	47	
	23:00	2.0	7.5	2.4	6.8	271.0	65.0	23.8	3.5	6.96	8.1	49	
5/29/2004	8:10	2.0	7.5	2.5	6.7	291.1	83.2	24.1	3.5	6.83	16.8	49	
	13:00	2.0	7.5	2.2	6.8	225.5	18.8	25.5	2.9	6.86	9.4	46	
	14:20	2.0	7.5	2.9	6.7	248.0	43.3	24.6	4.6	6.92	7.0		
	23:00	2.0	7.5	1.7	6.7	284.0	77.0	23.7	3.8	6.88	8.5	46	
5/30/2004	7:15	2.0	7.5	1.9	6.7	296.0	88.7	24.9	2.8	6.91	9.3	56	
	12:00	2.0	7.5	1.4	6.8	208.4	12.0	25.1	2.6	6.94	6.6	58	
5/31/2004	1:25	2.0	7.5	2.0	6.7	277.6	69.8						
Min		2.0	6.7	1.4	6.7	87.0	12.0	20.2	2.6	6.8	6.6	29	
Max		2.0	7.5	6.7	294.0	297.0	90.1	26.3	4.8	7.1	102.0	58	
Avg		2.0	7.3	2.8	19.8	250.2	51.4	24.3	3.6	7.0	14.5	47	

WEEK 14

		Instrument Readings-BIOFOR C			Portable Meter Readings-13BFCEff				
Date	Time	Process air flow (csfm)	Influent flow (gpm)	Column pressure (psi)	Temperature (oC)	DO (mg/L)	pH	Turbidity (NTU)	UVT (%)
5/24/2004	7:00	1.47	5.92	10.0	19.0	3.3	7.15	46.80	40
	13:00	1.44	6.46	8.0	25.4	2.6	6.89	25.00	41
5/25/2004	0:00	1.50	6.20	8.5	21.1	3.6	7.1	8.30	38
	7:00	1.50	6.00	8.8	20.2	3.5	6.51	22.10	35
5/26/2004	0:30	1.50	4.70	9.0	23.3	1.9	6.90	59.00	33
	6:35	1.53	3.00	10.4	24.4	1.2	7.09	88.10	19
	13:00	1.42	6.22	7.5	26.5	2.7	7.14	42.70	30
	23:00	1.47	6.20	9.0	23.0	4.3	6.96	8.21	61
5/27/2004		1.52	7.95	9.8	24.5	1.8	6.96	59.50	36
	13:00	1.47	7.21	8.0	26.0	2.0	6.92	31.20	36
	23:00	1.48	6.07	9.5	23.6	5.5	6.71	3.46	60
5/28/2004		1.54	6.70	10.0	24.6	1.4	7.0	76.00	29
	13:00	1.40	6.10	8.0	25.4	2.5	6.93	24.30	37
	23:00	1.40	4.70	9.0	23.7	1.6	6.94	54.4	37
5/29/2004	8:12	1.40	3.64	9.0	24.3	1.2	6.77	62.50	37
	13:10	1.38	3.50	6.5	25.8	3.2	6.91	25.70	33
	14:25	2.46	6.04	9.0	24.8	5.8	6.92	11.80	
	23:00	1.44	4.75	9.0	23.8	1.6	6.95	54.00	37
5/30/2004	7:30	1.47	5.50	9.0	25.0	1.3	6.99	58.90	40
	12:00	1.43	7.50	7.0	25.1	1.5	6.97	56.30	42
5/31/2004	1:25	1.42	6.32	9.0					
Min		1.4	3.0	6.5	19.0	1.2	6.5	3.5	19
Max		2.5	8.0	10.4	26.5	5.8	7.2	88.1	61
Avg		1.5	5.7	8.8	24.0	2.6	6.9	40.9	38

WEEK 14

		Instrument Readings-BIOFOR N			Portable Meter Readings-13BFNEff				
Date	Time	Process air flow (csfm)	Influent flow (gpm)	Column pressure (psi)	Temperature (oC)	DO (mg/L)	pH	Turbidity (NTU)	UVT (%)
5/24/2004	7:00				20.1	6.7	7.0	3.00	65
	13:00	2.0	2.30	7.2	22.7	7.3	7.04	8.34	63
5/25/2004	0:00	2.00	1.20	8.5	20.6	7.6	7.10	8.30	56
5/26/2004	0:30	2.00	1.60	9.0	22.4	7.0	6.90	3.50	60
	6:35	2.07	1.50	7.3	21.9	7.2	7.10		
	13:00	2.01	2.12	7.2	24.4	6.5	7.16	18.90	51
	23:00	2.06	1.15	7.0	22.2	7.2	7.11	15.30	48
5/27/2004		2.00	1.27	7.3	22.0	7.0	7.15	5.26	63
	13:00	2.04	1.67	6.5					
	23:00	2.08	1.54	7.0	23.0	7.3	6.83	18.90	48
5/28/2004		2.10	1.50	7.2	22.5	6.5	7.10	5.16	63
	13:00	2.07	2.28	7.0	23.0	6.7	7.18	6.94	62
	23:00	2.06	0.69	7.0	21.7	7.3	6.95	4.39	62
5/29/2004	8:15	2.08	0.85	7.0	22.3	7.0	6.68	5.45	60
	14:25	2.13	5.71	8.4	25.0	5.9	6.25	5.97	
	23:00	2.11	0.00	7.0	21.7	7.1	7.0	4.55	60
5/30/2004	7:45	2.09	1.60	7.0	23.5	5.8	7.01	6.45	65
	12:00	2.09	2.20	7.0	23.4	5.6	7.03	6.54	64
5/31/2004	1:25	2.09	0.93	7.0					
Min		2.0	0.0	6.5	20.1	5.6	6.3	3.0	48
Max		2.1	5.7	9.0	25.0	7.6	7.2	18.9	65
Avg		2.1	1.7	7.3	22.5	6.8	7.0	7.9	59

WEEK 14

BIOSTYR		Instrument Readings										
Date	Time	Process air flow (scfm)	Backwash air flow (scfm)	Backwash flow (gpm)	Effluent DO(mg/L)	Effluent pH	Inlet pressure (psi)	Headloss (iwc) Before BW	Headloss (iwc) After BW	Backwash tank level (in)	Time till next BW (min)	Max time between BW (min)
5/25/2004	9:00	2.00	3.0	104.70	0.20	6.80	202.1	28.3	0	50.75	1418	1440
5/27/2004	9:00	2.00	3.0	104.70	1.60	6.80	202.2	92.7	0	37.5	1421	1440
5/29/2004	9:10	2.00	3.0	101.30	1.30	6.80	111.4				1429	1440

103.57

WEEK 14

BIOFOR -C		Instrument Readings								
Date	Time	Process air flow (scfm)	Backwash air flow (scfm)	Backwash flow (gpm)	Backwash tank level (in)	Inlet pressure (psi)	Headloss (iwc) Before BW	Headloss (iwc) After BW	Time till next BW (min)	Max time between BW (min)
5/25/2004	10:00	1.44	16.0	26.04		0	54	10	1372	1372
5/27/2004	10:00	1.40	16.0	25.73	22.25	9		50	1372	1372
5/29/2004	10:05	1.40	16.0	26.00			53.5	10	1372	1372

WEEK 14

BIOFOR -N		Instrument Readings								
Date	Time	Process air flow (scfm)	Backwash air flow (scfm)	Backwash flow (gpm)	Backwash tank level (in)	Inlet pressure (psi)	Headloss (iwc) Before BW	Headloss (iwc) After BW	Time till next BW (min)	Max time between BW (min)
5/25/2004	14:00	2.00	9.0	15.26		10.5			2812	2812
5/27/2004	13:30	2.15	9.0	15.22		10.5			2812	2812
5/29/2004	13:35	2.00	9.0	15.00					2812	2812

15.16

		Imhoff Cone Testing											
Week	Date	Biostyr				Biofor C				Biofor N			
		Time	Minutes	Volume (mL)	SVI	Time	Minutes	Volume (mL)	SVI	Time	Minutes	Volume (mL)	SVI
1	2/27/2004					14:15	15	13	41	11:40	15	2.7	19
							30	12.5			30	5.3	
2	3/2/2004					13:00	15	23	52	11:00	15	5	26
							30	24			30	7.5	
3	3/10/2004					14:30	15	45	27	10:55	15	15	38
							30	40			30	15.5	
3	3/14/2004					15:00			23	11:50			8
							30	18			30	0.4	
4	3/18/2004					14:22	15	37	41	11:20	15	12.5	54
							30	28			30	14	
4	3/20/2004					14:00	15		33	11:30	15	0.5	14
							30	50			30	1.5	
5	3/24/2004	12:20	15	50	56	14:25	15	35	37	11:10	15	1.5	19
			30	38			30	29			30	3.5	
5	3/26/2004	9:25	15	42	33	14:15	15	35	36	10:50	15	0.1	8
			30	30			30	30			30	1	
5	3/28/2004	9:30	15	28	47	14:45	15	25	34	11:45	15	2	14
			30	24			30	27			30	2.5	
6	4/1/2004	9:30	15	29	26	14:35	15	29	30	11:25	15	6.5	33
			30	21			30	24			30	7.5	
6	4/3/2004	10:00	15	100	57	13:30	15	35	33	13:00	15	7.5	37
			30	80			30	30			30	6	
7	4/9/2004	9:25	15	48	30	14:20	15	29	27	10:55	15	0.1	4
			30	35			30	25			30	0.4	
8	4/17/2004	10:53	15	34	51	13:55	15	20	42		15		
			30	25			30	18			30		
9	4/21/2004	9:30	15	25	33	14:25	15	28	35	11:00	15	0	2
			30	20			30	24			30	<0.1	
9	4/23/2004	9:25	15	40	31	14:15	15	18	27	10:55	15	0.2	7
			30	35			30	15			30	0.2	
10	4/27/2004	9:25	15	32	29	14:25	15	25	41	11:00	15	4.5	18
			30	25			30	22			30	3.5	
10	4/29/2004	9:30	15	32	28	14:15	15	27	36	10:55	15	1.3	29
			30	25			30	22			30	2	
11	5/5/2004	9:30	15	33	29	14:15	15	31	35	11:00	15	0	0
			30	27			30	24			30	0.1	
11	5/7/2004					14:15	15	25	37	10:45	15	0.3	7
							30	24			30	0.5	
12	5/13/2004	9:25	15	19	23	14:15	15	24	38	11:00	15	<0.1	2
			30	16			30	18			30	0.1	
12	5/15/2004	9:25	15	17	28	15:00	15	45	57	12:00	15	20	63
			30	13			30	40			30	17	
13	5/17/2004	9:32	15	19	23	14:20	15	no separation	59	12:30	15	>0.1	
			30	16			30	49			30	>0.1	
13	5/23/2004	9:30	15	25	32	11:00	15	no separation					
			30	22			30	80					
14	5/25/2004	9:33	15	28	29	11:00	15	no separation					
			30	24			30	no separation					