

Table C-1. Bacteria Die-off results for samples collected from Buffalo Bayou at Piney Point Rd. and held in laboratory under five different conditions to simulate environmental conditions.

Date	Description	Initial Results	Flask 1	Flask 2	Flask 3	Flask 4	Flask 5
October 4, 2004	Initial Sample	6200	N/A	N/A	N/A	N/A	N/A
	Day 2	N/A	3900	7000	3700	3000	4400
	Day 3	N/A	3800	1200	640	260	1500
	Day 4	N/A	2300	530	120	63	480
January 10, 2005	Initial Sample	210	N/A	N/A	N/A	N/A	N/A
	Day 2	N/A	140	20	52	92	140
	Day 3	N/A	140	41	100	10	20
	Day 4	N/A	74	<10	<10	<10	41
March 14, 2005	Initial Sample	500	N/A	N/A	N/A	N/A	N/A
	Day 2	N/A	420	410	10	20	250
	Day 3	N/A	340	180	10	110	300
	Day 4	N/A	450	200	<10	200	220
April 18, 2005	Initial Sample	610	N/A	N/A	N/A	N/A	N/A
	Day 2	N/A	510	330	100	180	220
	Day 3	N/A	570	130	30	20	150
	Day 4	N/A	510	160	20	10	230
May 9, 2005	Initial Sample	15000	N/A	N/A	N/A	N/A	N/A
	Day 2	N/A	24000	5900	1400	2000	5900
	Day 3	N/A	9600	2700	410	280	2200
	Day 4	N/A	13000	2800	140	98	2600

Flask 1 - Sealed container, refrigerated, settled, reshaken for pipetting & testing

Flask 2 - Darkened fume hood @ room temperature, settled, reshaken for pipetting & testing

Flask 3 - Darkened fume hood @ room temperature, settled, NOT shaken or stirred before pipetting & testing

Flask 4 - Darkened fume hood @ room temperature, slowly stirred continuously, pipetted & tested

Flask 5 - Darkened fume hood @ room temperature, vigorously agitated/stirred continuously, pipetted & tested

Table C-2. Bacteria Die-off results for samples collected from Buffalo Bayou at Voss Rd. and held in laboratory under five different conditions to simulate environmental conditions.

Date	Description	Initial results	Flask 1	Flask 2	Flask 3	Flask 4	Flask 5
October 4, 2004	Initial Sample	27,000	N/A	N/A	N/A	N/A	N/A
	Day 2	N/A	18,000	12,000	1,900	610	7,800
	Day 3	N/A	24,000	5,000	590	600	4,600
	Day 4	N/A	18,000	1,800	320	97	1,800
January 10, 2005	Initial Sample	570	N/A	N/A	N/A	N/A	N/A
	Day 2	N/A	460	240	280	340	460
	Day 3	N/A	470	97	55	110	65
	Day 4	N/A	350	70	10	31	52
March 14, 2005	Initial Sample	400	N/A	N/A	N/A	N/A	N/A
	Day 2	N/A	410	240	100	52	260
	Day 3	N/A	610	120	82	10	230
	Day 4	N/A	630	140	60	270	110
April 18, 2005	Initial Sample	860	N/A	N/A	N/A	N/A	N/A
	Day 2	N/A	1100	600	570	460	910
	Day 3	N/A	1000	540	120	150	630
	Day 4	N/A	880	240	20	66	330
May 9, 2005	Initial Sample	15,000	N/A	N/A	N/A	N/A	N/A
	Day 2	N/A	16,000	4,600	5,200	2,400	6,200
	Day 3	N/A	10,000	3,100	730	440	5,600
	Day 4	N/A	9,300	4,900	120	120	3,700

Flask 1 - Sealed container, refrigerated, settled, reshaken for pipetting & testing

Flask 2 - Darkened fume hood @ room temperature, settled, reshaken for pipetting & testing

Flask 3 - Darkened fume hood @ room temperature, settled, NOT shaken or stirred before pipetting & testing

Flask 4 - Darkened fume hood @ room temperature, slowly stirred continuously, pipetted & tested

Flask 5 - Darkened fume hood @ room temperature, vigorously agitated/stirred continuously, pipetted & tested

Table 3 Bacteria and Rate Data from Buffalo Bayou at Piney Point

Time	Flow at Piney Pt (cfs)	EC (MPN/dL)					Dieoff Rate (1/day)				
		Flask 1	Flask 2	Flask 3	Flask 4	Flask 5	Flask 1	Flask 2	Flask 3	Flask 4	Flask 5
		Cooled	Room Temperature				Cooled	Room Temperature			
		Shaken	Shaken	No Stir	Slow Stir	Fast Stir	Shaken	Shaken	No Stir	Slow Stir	Fast Stir
10/04/04 10:10	175	6,200	6,200	6,200	6,200	6,200	-	-	-	-	-
10/05/04 10:10	297	3,900	7,000	3,700	3,000	4,400	0.46	-0.12	0.52	0.73	0.34
10/06/04 10:10	275	3,800	1,200	640	260	1,500	0.24	0.82	1.14	1.59	0.71
10/07/04 10:10	698	2,300	530	120	63	480	0.33	0.82	1.31	1.53	0.85
01/10/05 10:00	117	210	210	210	210	210	-	-	-	-	-
01/11/05 10:00	113	140	20	52	92	140	0.41	2.35	1.40	0.83	0.41
01/12/05 10:00	108	140	41	100	10	20	0.20	0.82	0.37	1.52	1.18
01/13/05 10:00	929	74	5	5	5	41	0.35	1.25	1.25	1.25	0.54
03/14/05 10:02	180	500	500	500	500	500	-	-	-	-	-
03/15/05 10:02	152	420	410	10	20	250	0.17	0.20	3.91	3.22	0.69
03/16/05 10:02	201	340	180	10	110	300	0.19	0.51	1.96	0.76	0.26
03/17/05 10:02	227	450	200	5	200	220	0.04	0.31	1.54	0.31	0.27
04/18/05 10:02	97	610	610	610	610	610	-	-	-	-	-
04/19/05 10:02	94	510	330	100	180	220	0.18	0.61	1.81	1.22	1.02
04/20/05 10:02	93	570	130	30	20	150	0.03	0.77	1.51	1.71	0.70
04/21/05 10:02	91	510	160	20	10	230	0.06	0.45	1.14	1.37	0.33
05/09/05 10:04	1,240	15,000	15,000	15,000	15,000	15,000	-	-	-	-	-
05/10/05 10:04	1,520	24,000	5,900	1,400	2,000	5,900	-0.47	0.93	2.37	2.01	0.93
05/11/05 10:04	1,910	9,600	2,700	410	280	2,200	0.22	0.86	1.80	1.99	0.96
05/12/05 10:04	1,880	13,000	2,800	140	98	2,600	0.05	0.56	1.56	1.68	0.58
Average rate of 5 replicates						Day 0-1	0.15	0.80	2.00	1.60	0.68
						Day 0-2	0.18	0.76	1.35	1.51	0.76
						Day 0-3	0.16	0.68	1.36	1.23	0.52

Table 2 Bacteria and Rate Data from Buffalo Bayou at Voss

Time	Flow at Piney Pt (cfs)	EC (MPN/dL)					Dieoff Rate (1/day)				
		Flask 1	Flask 2	Flask 3	Flask 4	Flask 5	Flask 1	Flask 2	Flask 3	Flask 4	Flask 5
		Cooled	Room Temperature				Cooled	Room Temperature			
		Shaken	Shaken	No Stir	Slow Stir	Fast Stir	Shaken	Shaken	No Stir	Slow Stir	Fast Stir
10/04/04 10:10	175	27,000	27,000	27,000	27,000	27,000	-	-	-	-	-
10/05/04 10:10	297	18,000	12,000	1,900	610	7,800	0.41	0.81	2.65	3.79	1.24
10/06/04 10:10	275	24,000	5,000	590	600	4,600	0.06	0.84	1.91	1.90	0.88
10/07/04 10:10	698	18,000	1,800	320	97	1,800	0.14	0.90	1.48	1.88	0.90
01/10/05 10:00	117	570	570	570	570	570	-	-	-	-	-
01/11/05 10:00	113	460	240	280	340	460	0.21	0.86	0.71	0.52	0.21
01/12/05 10:00	108	470	97	55	110	65	0.10	0.89	1.17	0.82	1.09
01/13/05 10:00	929	350	70	10	31	52	0.16	0.70	1.35	0.97	0.80
03/14/05 10:02	180	400	400	400	400	400	-	-	-	-	-
03/15/05 10:02	152	410	240	100	52	260	-0.02	0.51	1.39	2.04	0.43
03/16/05 10:02	201	610	120	82	10	230	-0.21	0.60	0.79	1.84	0.28
03/17/05 10:02	227	630	140	60	270	110	-0.15	0.35	0.63	0.13	0.43
04/18/05 10:02	97	860	860	860	860	860	-	-	-	-	-
04/19/05 10:02	94	1100	600	570	460	910	-0.25	0.36	0.41	0.63	-0.06
04/20/05 10:02	93	1000	540	120	150	630	-0.08	0.23	0.98	0.87	0.16
04/21/05 10:02	91	880	240	20	66	330	-0.01	0.43	1.25	0.86	0.32
05/09/05 10:04	1,240	15,000	15,000	15,000	15,000	15,000	-	-	-	-	-
05/10/05 10:04	1,520	16,000	4,600	5,200	2,400	6,200	-0.06	1.18	1.06	1.83	0.88
05/11/05 10:04	1,910	10,000	3,100	730	440	5,600	0.20	0.79	1.51	1.76	0.49
05/12/05 10:04	1,880	9,300	4,900	120	120	3,700	0.16	0.37	1.61	1.61	0.47
Average rates of 5 replicates						Day 0-1	0.06	0.75	1.24	1.76	0.54
						Day 0-2	0.01	0.67	1.27	1.44	0.58
						Day 0-3	0.06	0.55	1.26	1.09	0.58

Table 4 Bayou TSS and Bacteria Following Rain Events

Date	Piney Point			Voss	
	Flow (cfs)	EC (MPN/dL)	TSS (mg/L)	EC (MPN/dL)	TSS (mg/L)
05/09/05	1,240	15,000	458	15,000	252
05/10/05	1,520	11,000	167	11,000	192
05/11/05	1,910	1,500	69	2,000	111
05/12/05	1,880	560	47	400	60