

Table 1: Site and Spray Event Description								
Experiment Dates:	Spray Dates:	Spray Type:	Sites Involved:	Coordinates of Sites Involved:	Spray Sites:	Animals Involved:	Chemistry Performed:	DO Evaluated:
7/20 - 7/26	7/20	L	Johns Neck	40 43.25 N; 73 8.69 W	JN & TP	Fish	None	No
			Timber Point	40 43.25 N; 73 8.50 W				No
			Old Fort Pond	40 53.07 N; 72 26.50 W				No
			Havens Point	40 44.92 N; 72 52.07 W				No
8/2 - 8/7	8/3	L	Timber Point	40 43.25 N; 73 8.50 W	JN & TP	Fish & Shrimp	water samples at 1,	Yes
			Johns Neck	40 43.25 N; 73 8.69 W			2, 24, 48 & 96 h post-	Yes
			Havens Point	40 44.92 N; 72 52.07 W			spray; sed. Samples at	Yes
			Flax Pond	40 57.822 N; 73 8.58 W			1 & 4 days post-spray	Yes
8/9 - 8/14	8/10	L	Timber Point	40 43.25 N; 73 8.50 W	JN & TP	Fish & Shrimp	water samples at pre-	only 8/9-8/12
			Johns Neck	40 43.25 N; 73 8.69 W			spray & 30min., 1d & 4d	only 8/9-8/13
			Havens Point	40 44.92 N; 72 52.07 W			post-spray; sed. Samples	only 8/9-8/14
			Flax Pond	40 57.822 N; 73 8.58 W			at 1 & 4d post-spray	Yes
8/17 - 8/22	8/18	A (L on 8/17)	Johns Neck	40 43.25 N; 73 8.69 W	JN	Fish & Shrimp	water & sed samples same	Yes
			Havens Point	40 44.92 N; 72 52.07 W			as on 8/3.	Yes
8/25 - 8/29	8/25	A	Johns Neck	40 43.25 N; 73 8.69 W	JN	Fish & Shrimp	water & sed samples at pre &	Yes
			Havens Point	40 44.92 N; 72 52.07 W			post 30min. & 1d & 4d post	Yes
8/31 - 9/5	9/1	L	Johns Neck	40 43.25 N; 73 8.69 W	TP	Fish & Shrimp	water & sed samples as on	Yes
			Timber Point	40 43.25 N; 73 8.50 W			8/25	Yes
			Havens Point	40 44.92 N; 72 52.07 W				Yes

Table 2: Shrimp Static Exposure Experiments Concurrent with Spray Events

	Start Date:	Site:	Mean % Survival: (after 96 hours)	Std. Dev.:	
	8/3/2004	Flax Pond	100.0	0.0	
		Timber Point	100.0	0.0	
		Johns Neck	83.3	40.8	
	8/10/2004	Flax Pond	100.0	0.0	
		Timber Point	100.0	0.0	
		Johns Neck	100.0	0.0	
	8/18/2004	Johns Neck	100.0	0.0	
		Havens Point	100.0	0.0	
	8/25/2004	Johns Neck	100.0	0.0	
		Havens Point	100.0	0.0	
	9/1/2004	Timber Point	83.3	40.8	
		Havens Point	66.7	51.6	

Table 3: Fish Growth						
Date:	Site:	Total Growth: (cm)	Total Growth (mm)	Growth Rate (mm/day)	Average Growth Rate (mm/day)	Standard Deviation:
20-Jul	Havens	0.140	1.400	0.280	0.280	0.000
		0.140	1.400	0.280		
	Johns	0.228	2.280	0.456	0.048	0.577
		-0.180	-1.800	-0.360		
	Timber	0.270	2.700	0.540	0.550	0.014
		0.280	2.800	0.560		
Old Fort Pond	0.120	1.200	0.240	0.440	0.283	
	0.320	3.200	0.640			
3-Aug	Timber	0.075	0.750	0.150	0.139	0.019
		0.075	0.750	0.150		
		0.058	0.583	0.117		
	Johns	0.120	1.200	0.240	0.240	n/a
	Havens	0.080	0.800	0.160	0.150	0.026
		0.060	0.602	0.120		
		0.085	0.850	0.170		
	Flax	0.075	0.750	0.150	0.197	0.090
		0.150	1.500	0.300		
		0.070	0.700	0.140		
	9-Aug	Timber	0.050	0.500	0.100	0.067
0.055			0.550	0.110		
-0.005			-0.050	-0.010		
Johns		0.003	0.033	0.007	0.051	0.039
		0.038	0.383	0.077		
		0.035	0.350	0.070		
Havens		0.053	0.525	0.105	0.072	0.046
		0.020	0.200	0.040		
Flax		0.025	0.250	0.050	0.027	0.068
		-0.025	-0.250	-0.050		
		0.040	0.400	0.080		

Table 3 cont'd:

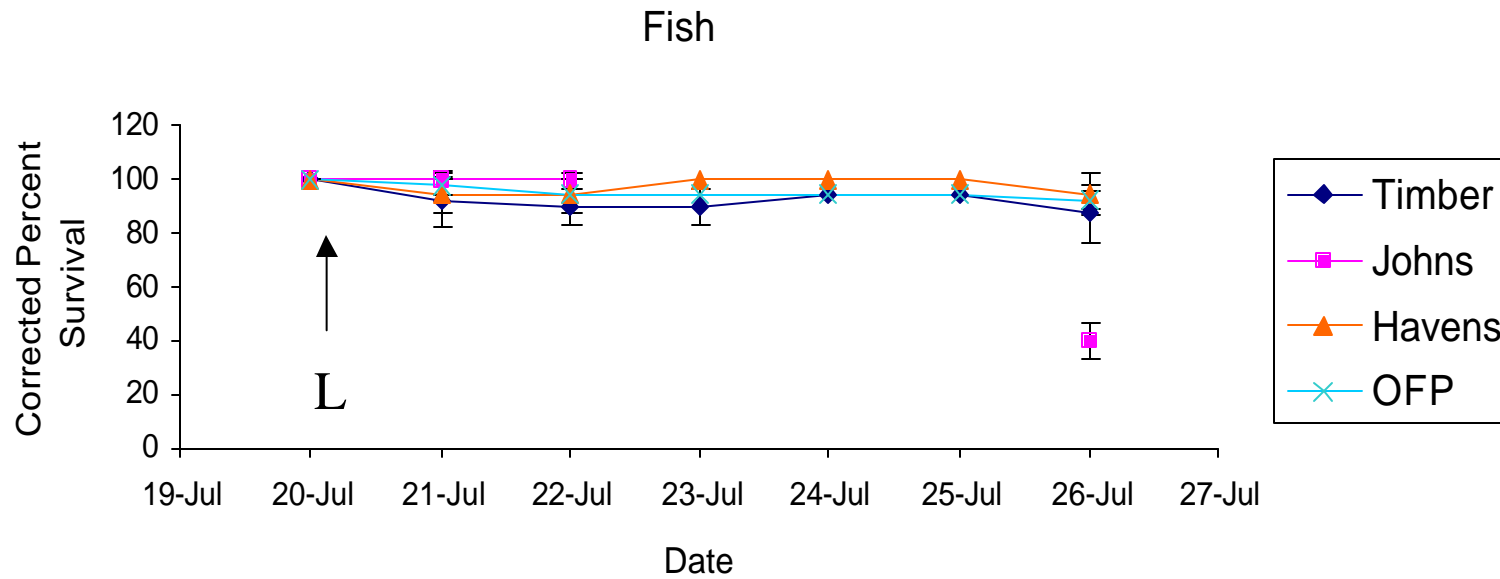
18-Aug	Johns	0.085	0.850	0.170	0.120	0.071
		0.035	0.350	0.070		
	Havens	0.115	1.150	0.230	0.165	0.092
		0.050	0.500	0.100		
25-Aug	Johns--normal				0.160	n/a
	normal					
	normal	0.080	0.800	0.160		
	channel	0.135	1.350	0.270	0.225	0.064
	channel	0.090	0.900	0.180		
	surface ditch	0.050	0.500	0.100	0.145	0.064
	surface ditch	0.095	0.950	0.190		
	Havens--normal	0.058	0.583	0.117	0.044	0.064
	normal	0.010	0.100	0.020		
	normal	-0.003	-0.025	-0.005		
	surface	0.077	0.775	0.155	0.144	0.015
	surface	0.067	0.667	0.133		
1-Sep	Havens				0.221	n/a
		0.051	0.510	0.102		
	Timber	0.025	0.250	0.050	0.078	0.040
		0.030	0.300	0.060		
		0.062	0.620	0.124		
	Johns--normal				0.471	n/a
	normal					
	normal	0.109	1.088	0.218		
	channel	0.150	1.500	0.300	0.258	0.040
	channel	0.110	1.100	0.220		
	channel	0.127	1.268	0.254		
(Note: n/a was inserted where there was too few data to perform the functions)						

Table 4: Shrimp Prey Capture				
Date:	Site ID:	Number of Shrimp Tested:	Avg. eaten after 60 min.:	Std. Dev.:
8/3/04 Larvicide	Flax	7	9.14	7.01
	Havens	7	10.29	5.44
	Johns Neck	5	18.60	1.67
	Timber	2	9.00	9.90
	Flax static (#1)	5	8.40	5.98
	J.N. static (#1)	5	10.00	4.64
	T.P. static (#1)	5	8.60	2.19
8/9/04 Larvicide	Flax	10	12.10	4.72
	Havens	10	12.90	5.07
	J.N. static (#1)	6	12.50	6.69
	Timber	10	10.20	5.03
8/18/04 Adulticide	Havens	10	11.80	4.85
	J.N. static (#1)	5	10.20	3.27
	H.P. static (#1)	5	9.40	4.72
8/25/04 Adulticide	Havens	6	12.67	2.73
	H.P. static #1	5	11.00	1.22
	J.N. channel	14	11.00	3.26
	J.N. static #1	5	9.00	1.41
9/1/04 Larvicide	Havens	9	12.78	2.95
	Johns Neck	10	5.80	3.55
	Timber	11	9.82	4.60



Figure 1: Field Sites

Figure 2: Corrected Fish Survival for 7/20/04



NOTE: no shrimp were put in for this spray experiment

Figure 3: Corrected Fish and Shrimp Survival for 8/3/04

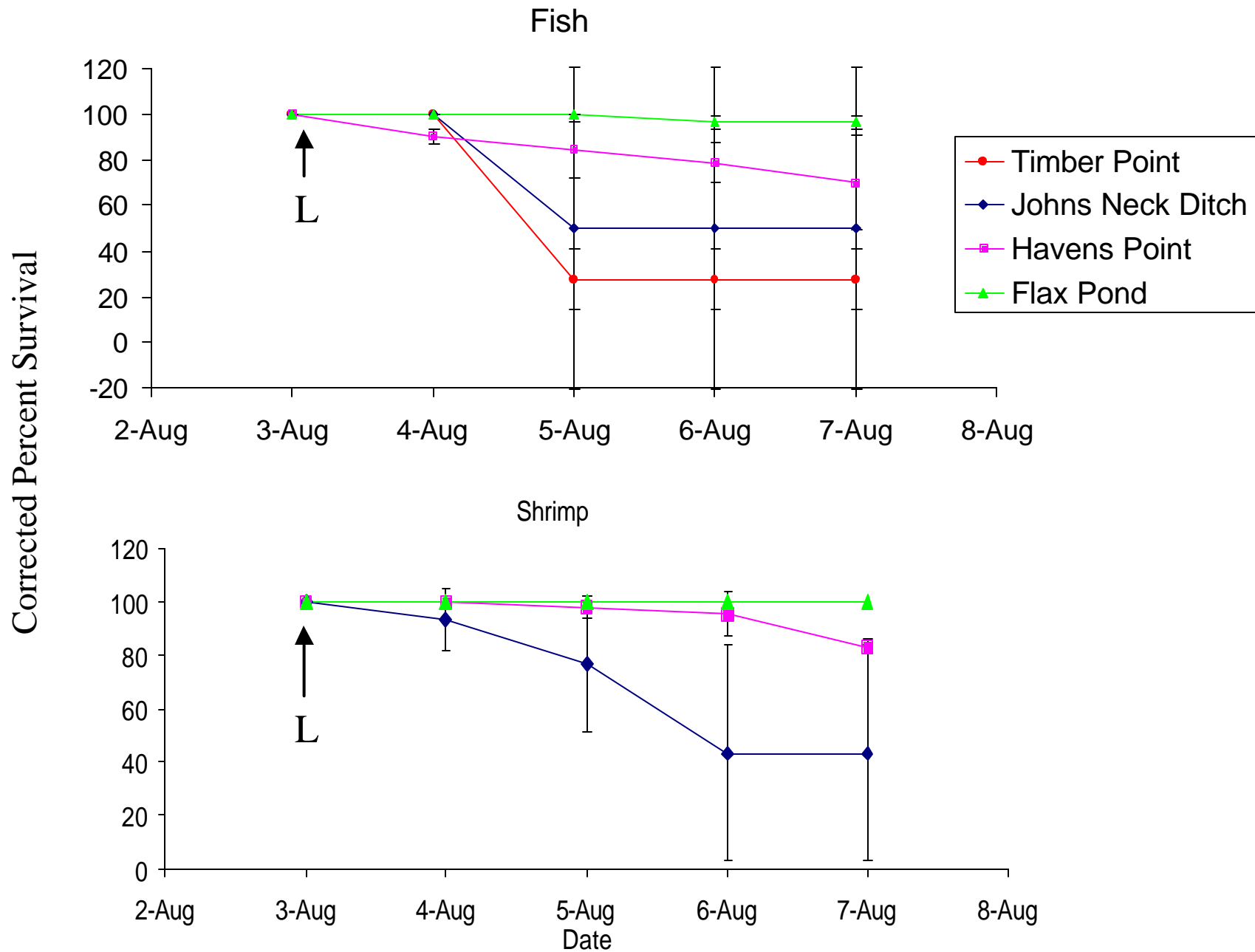


Figure 4: Corrected Fish and Shrimp Survival for 8/10/04

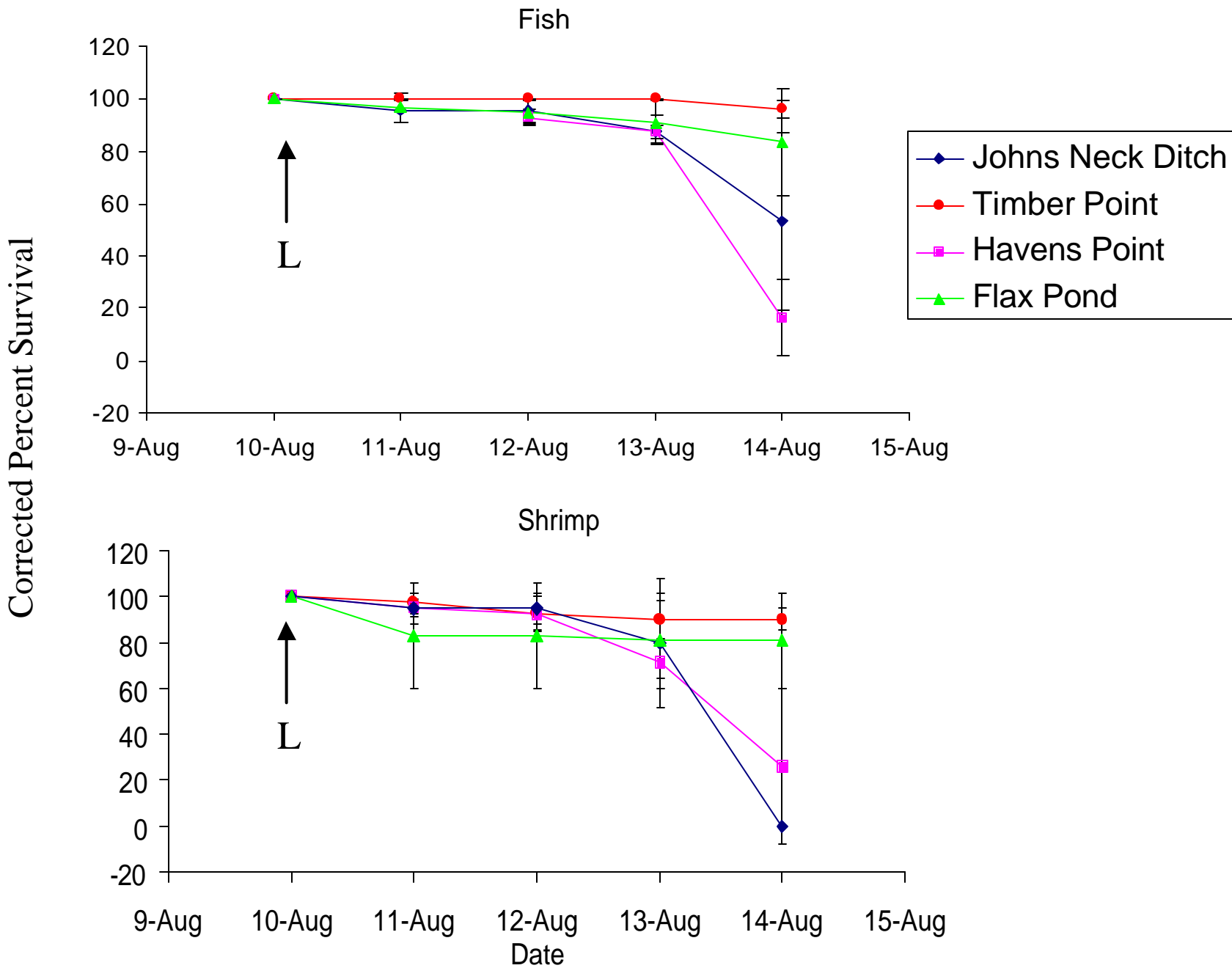


Figure 5: Corrected Fish and Shrimp Survival for 8/18/04

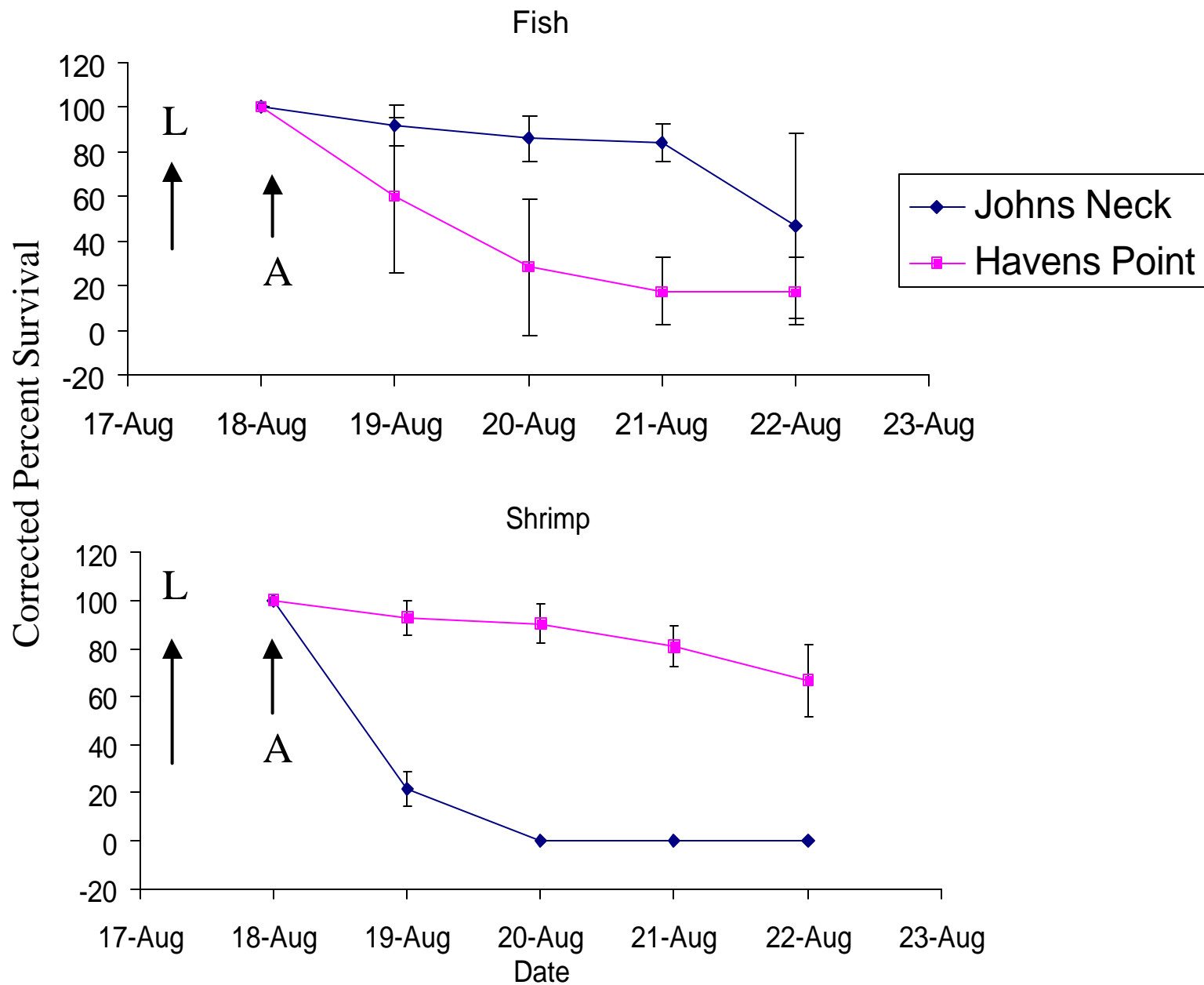
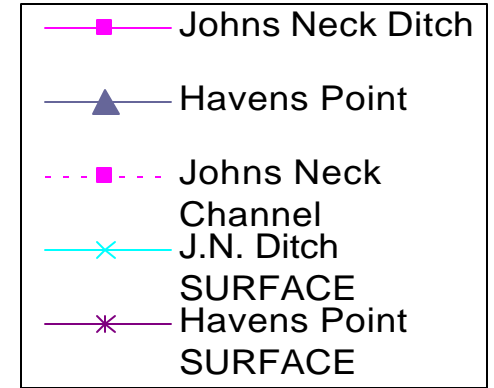
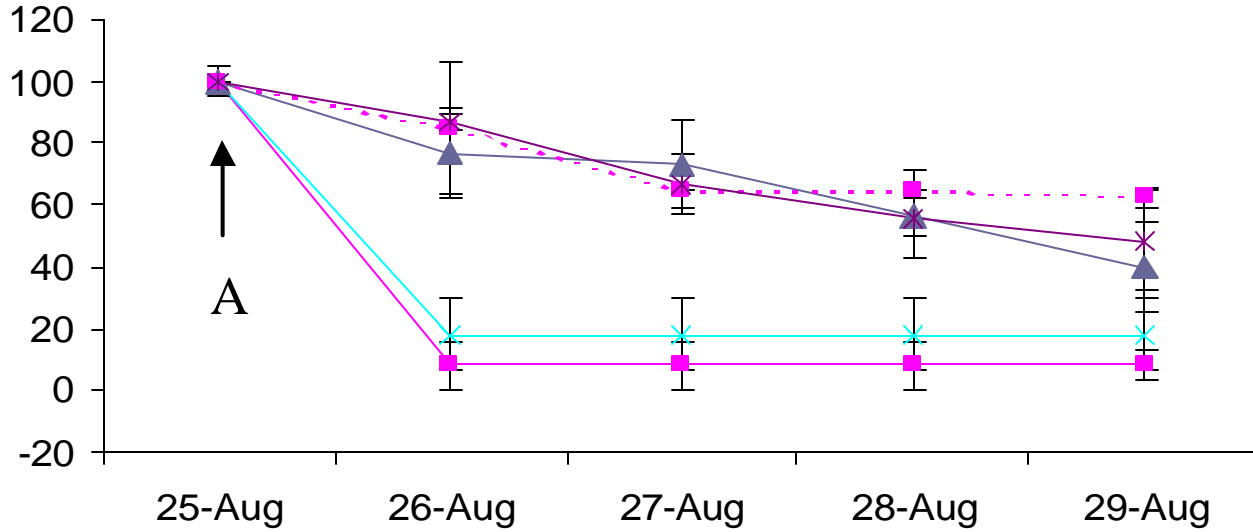
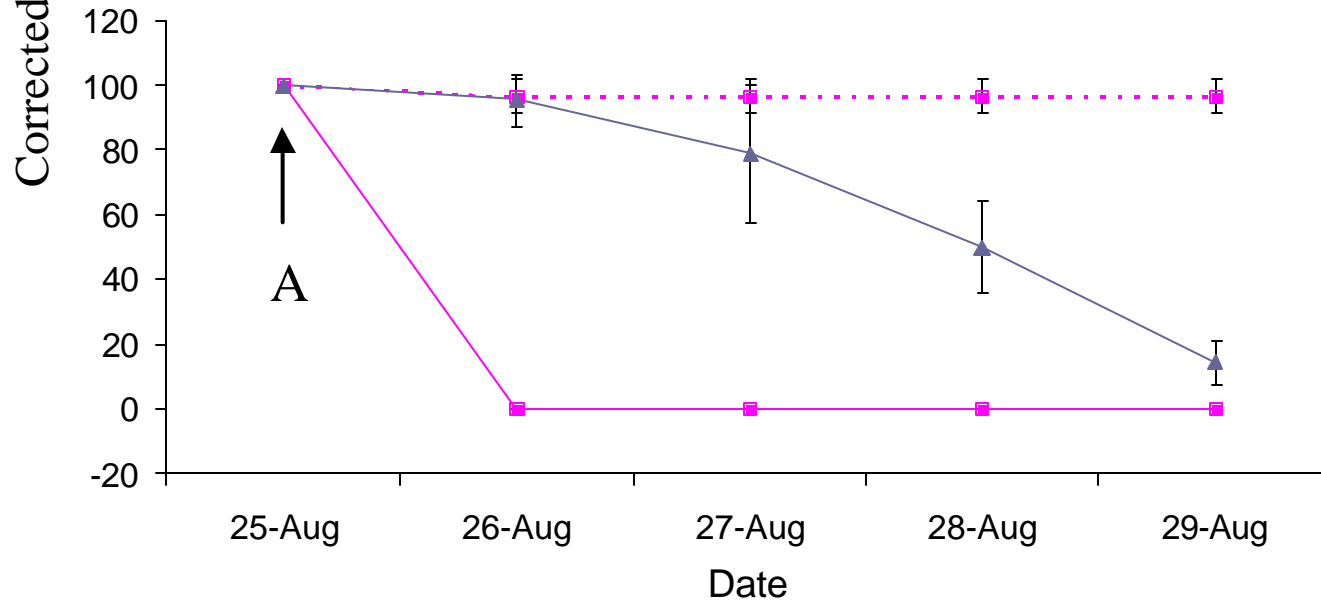


Figure 6: Corrected Fish and Shrimp Survival for 8/25/04

Fish

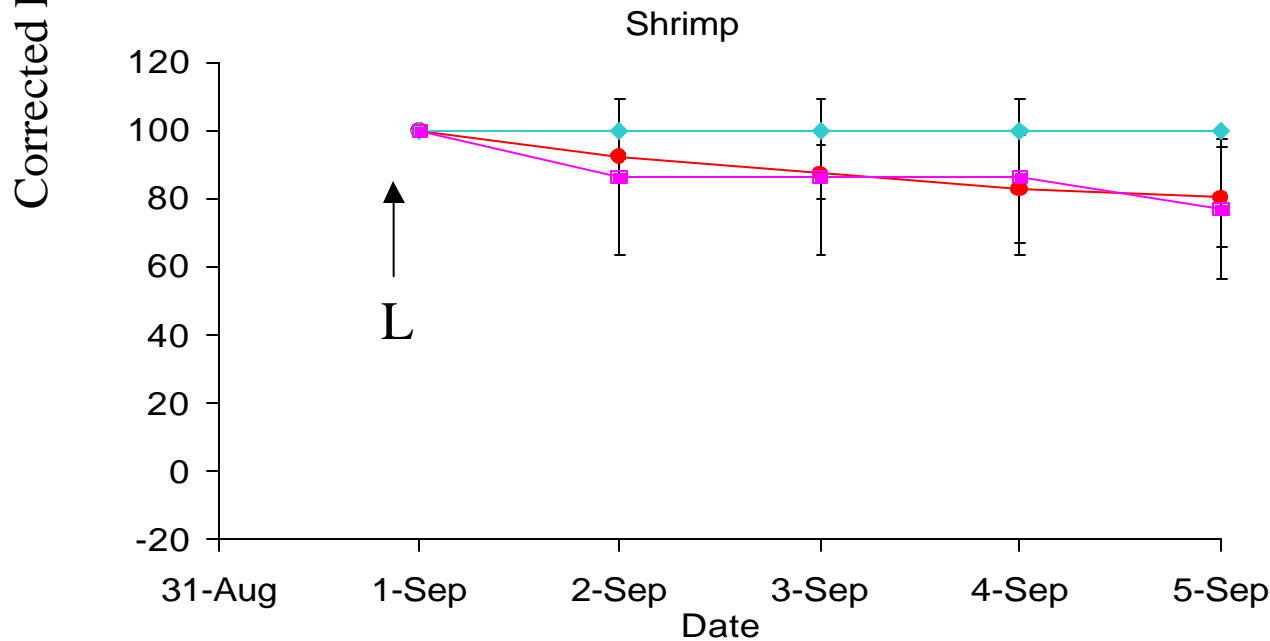
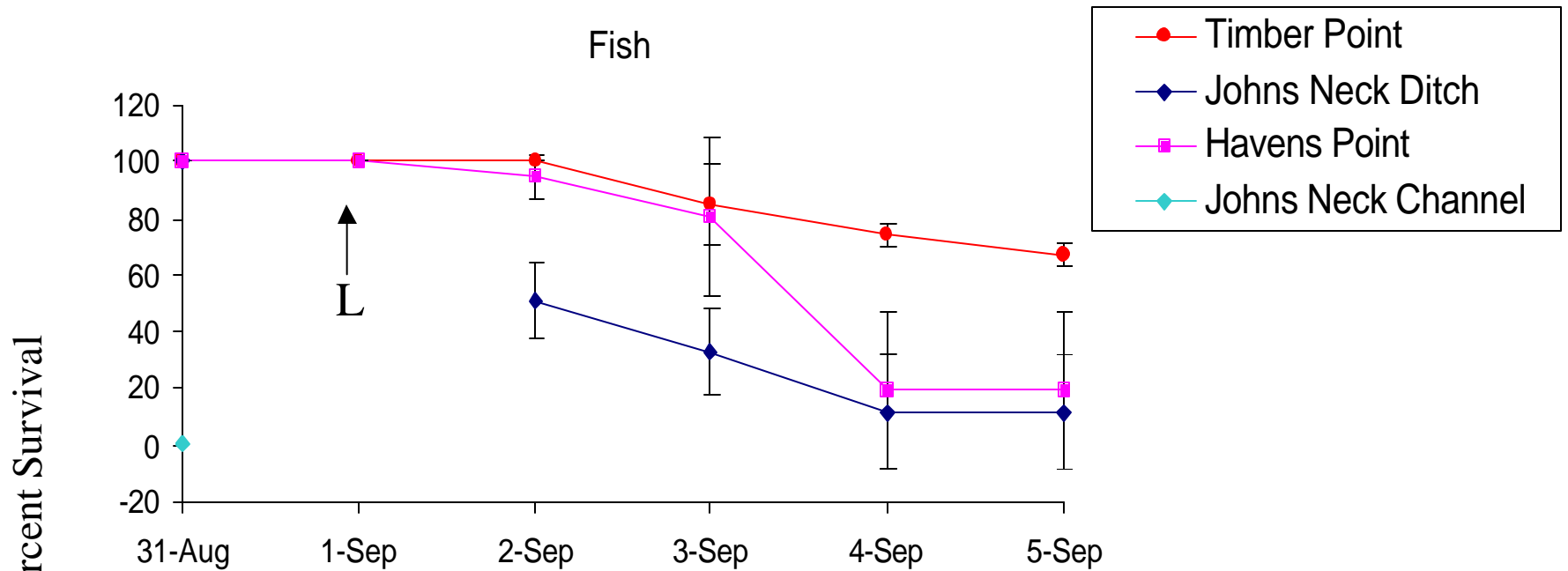


Shrimp



Note: cages were placed at the site the morning of the spray and therefore the corrected and uncorrected graphs are the same.

Figure 7: Corrected Fish and Shrimp Survival for 9/1/04



Note: No fish data for John's Neck on 9/1 so the data is normalized to 8/31.

Note also that only Timberpoint was larvicided.

Figure 8:

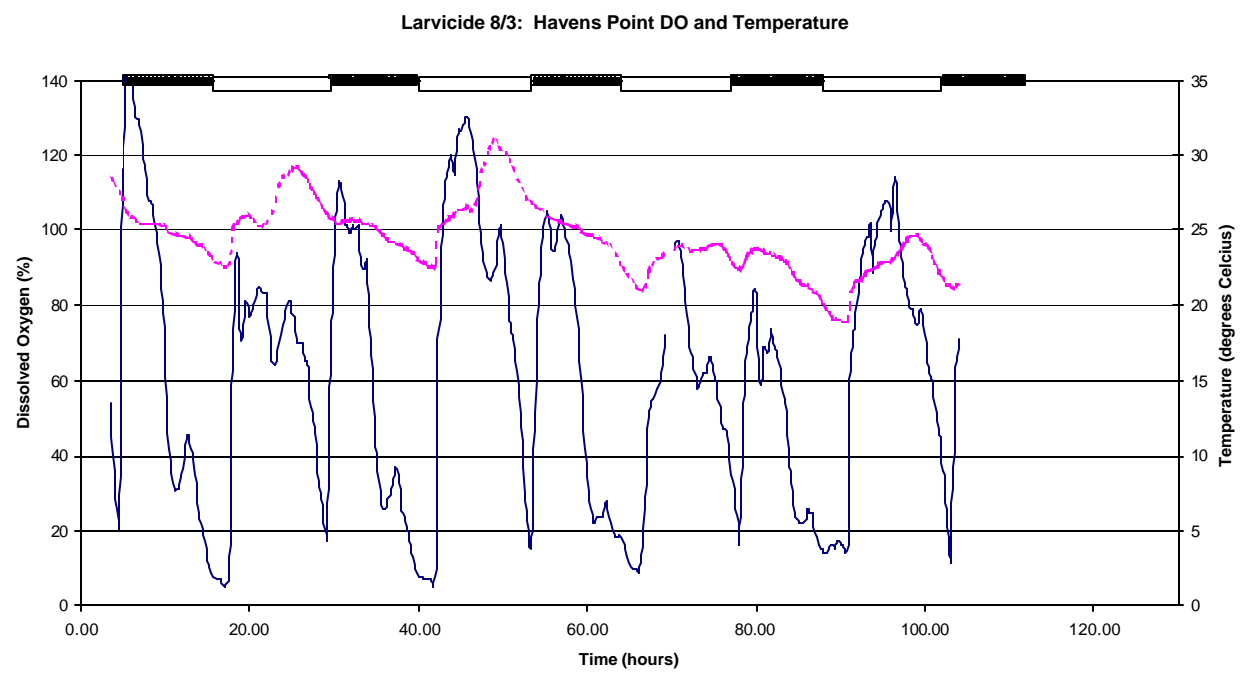
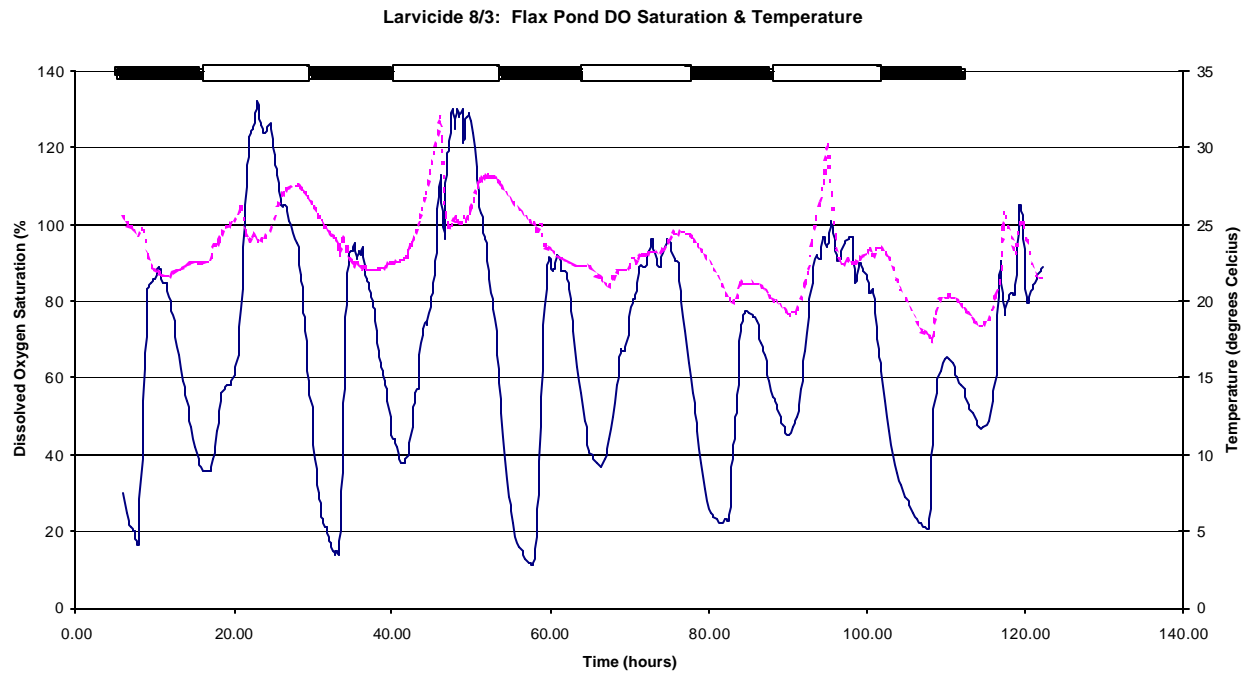
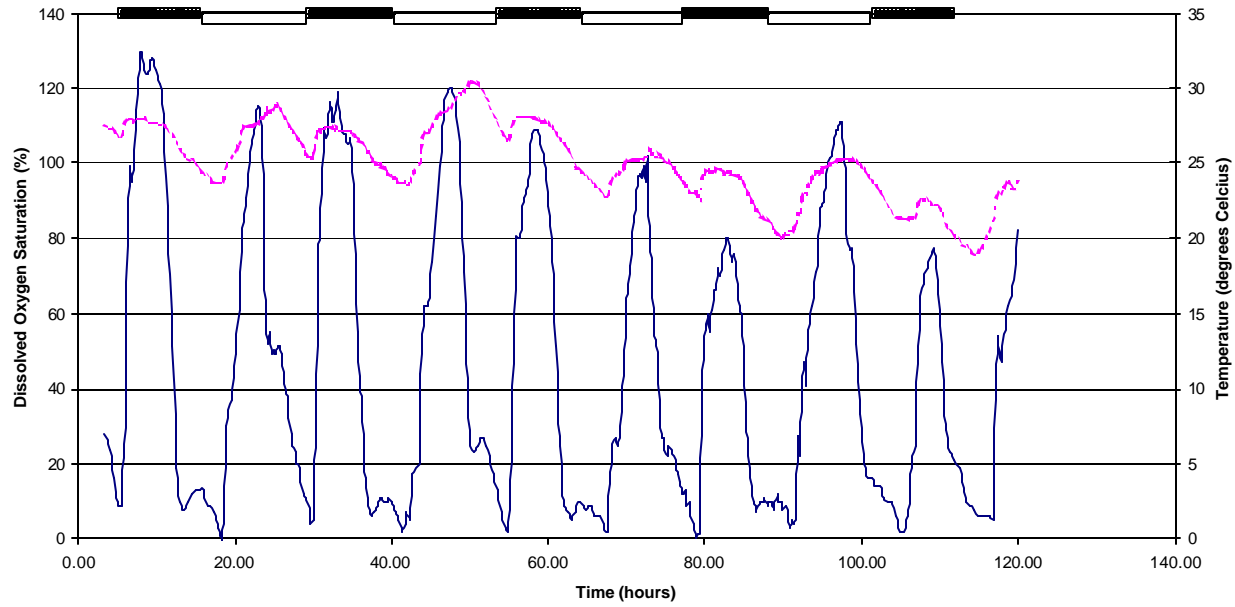


Figure 8 cont'd:

Larvicide 8/3: Johns Neck DO and Temperature



Larvicide 8/3: Timber Point DO and Temperature

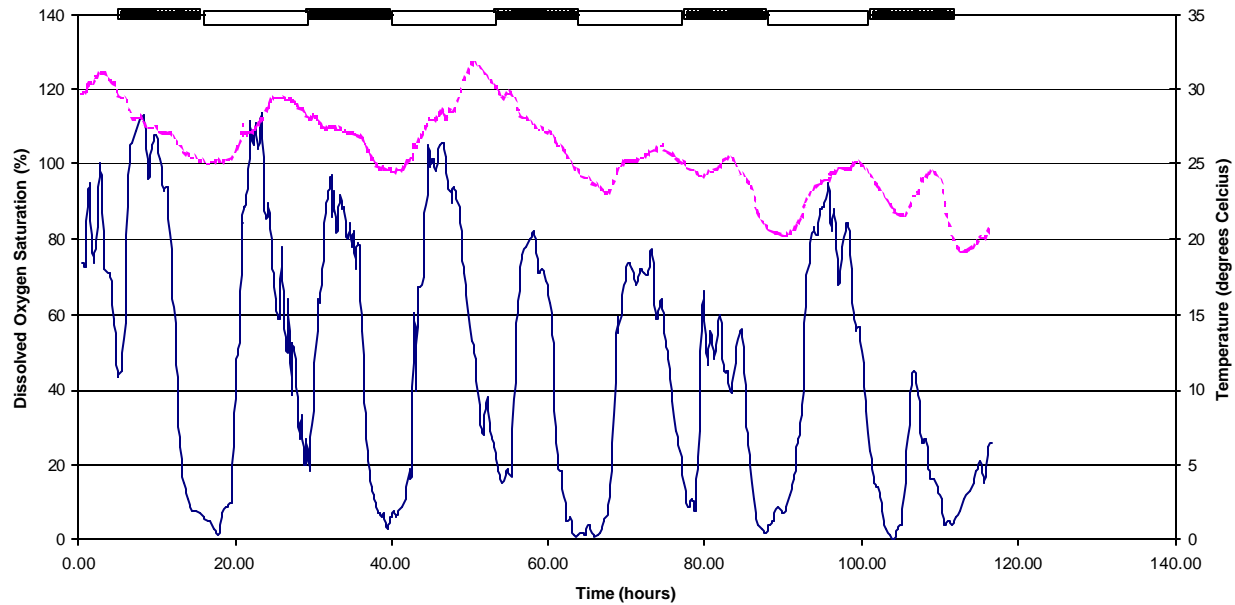


Figure 9:

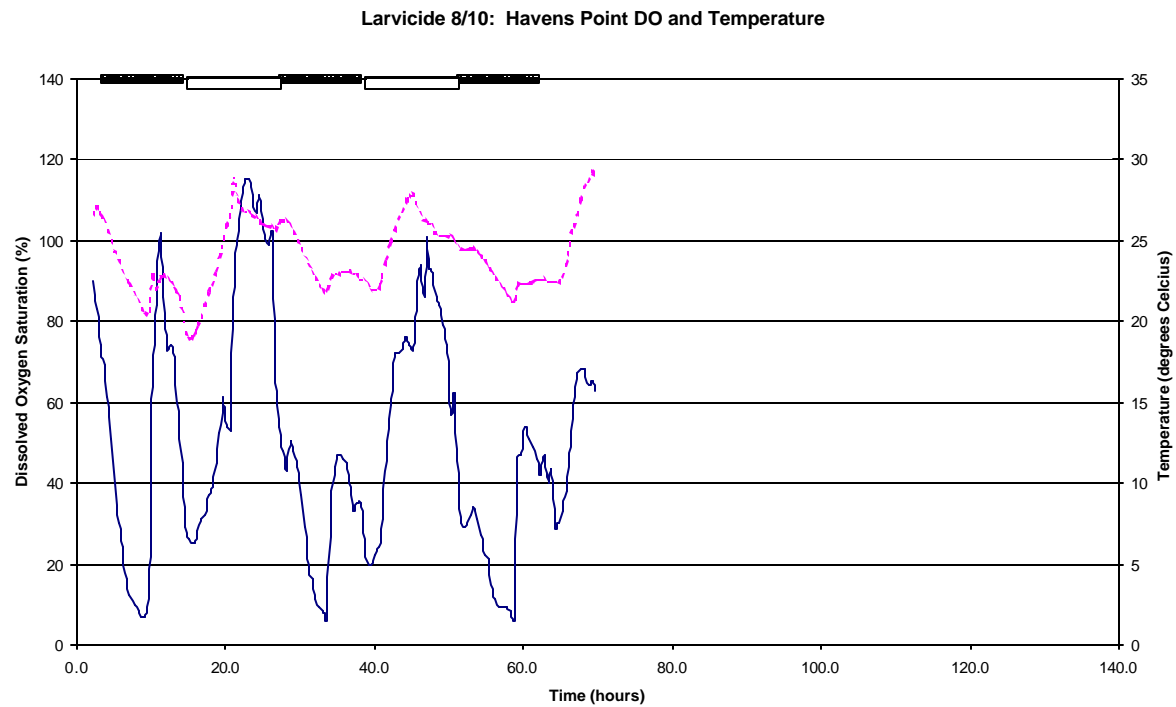
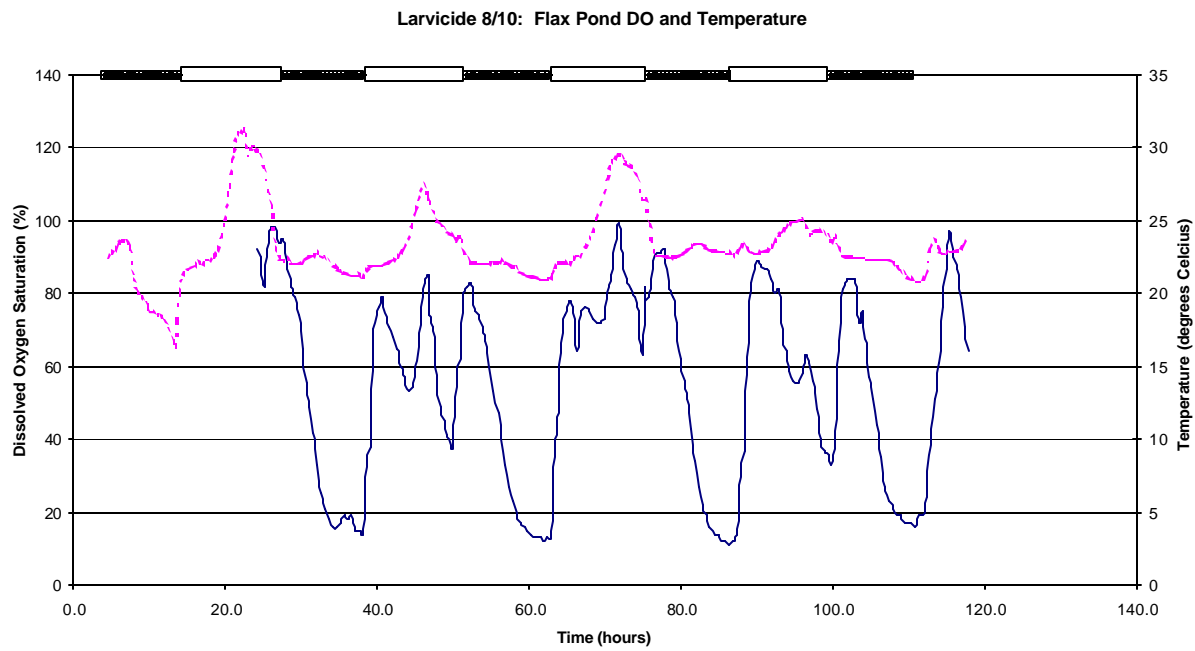
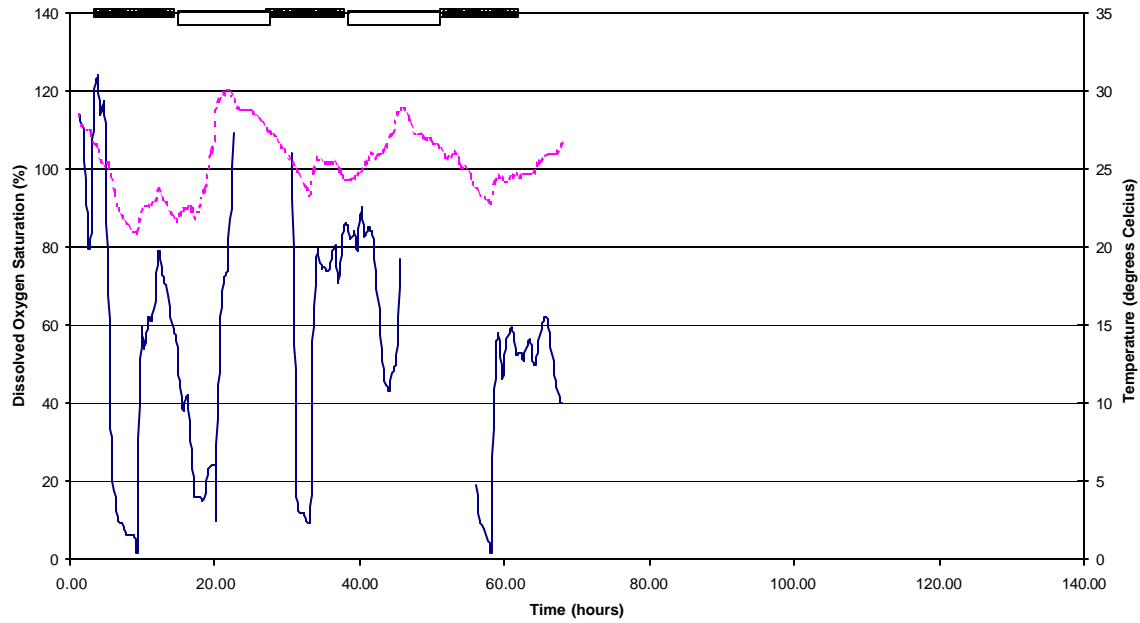


Figure 9 cont'd:

Larvicide 8/10: Johns Neck Ditch DO and Temperature



Larvicide 8/10: Timber Point DO and Temperature

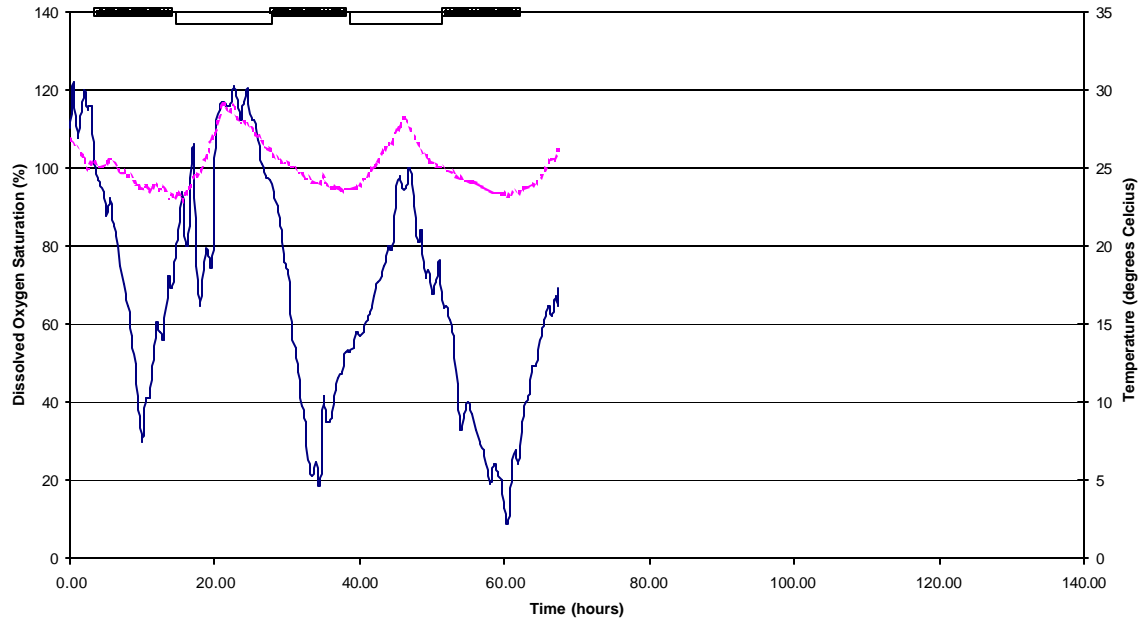
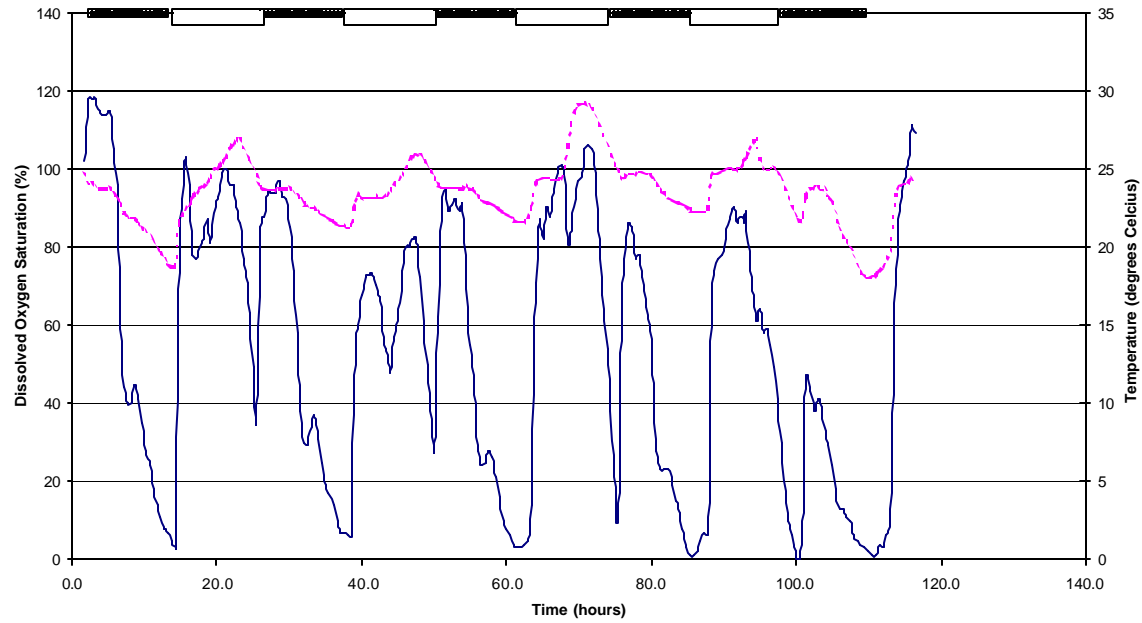


Figure 10:

Adulticide 8/18: Havens Point DO and Temperature



Adulticide 8/18: Johns Neck Ditch DO and Temperature

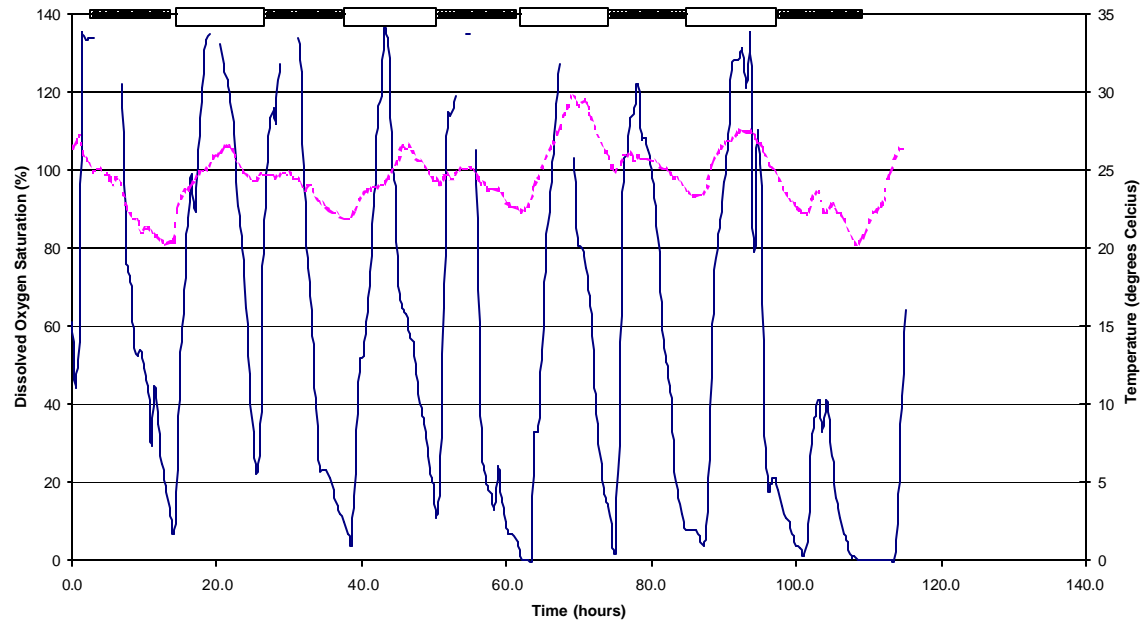
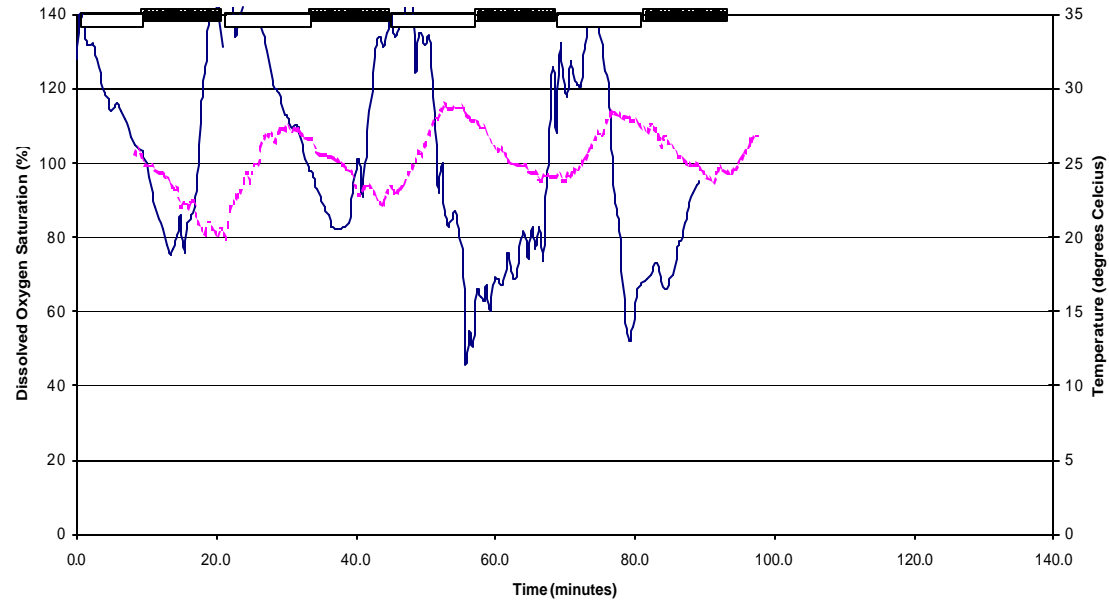


Figure 11:

Adulticide 8/25: Johns Neck Channel DO and Temperature



Adulticide 8/25: Johns Neck Ditch DO and Temperature

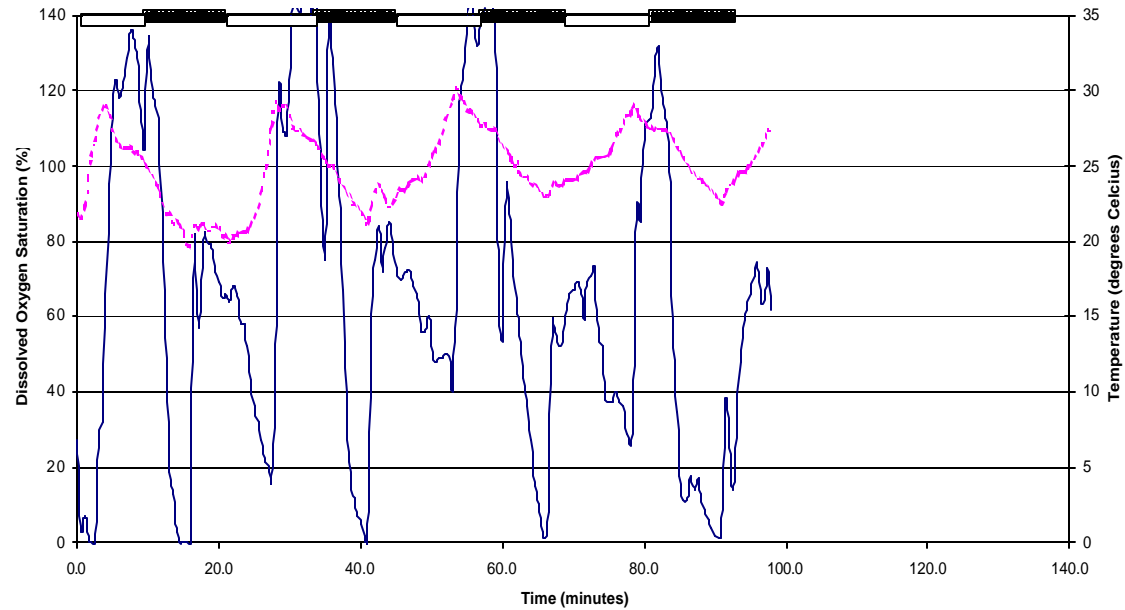


Figure 11 cont'd

Adulticide 8/25: Havens Point DO and Temperature

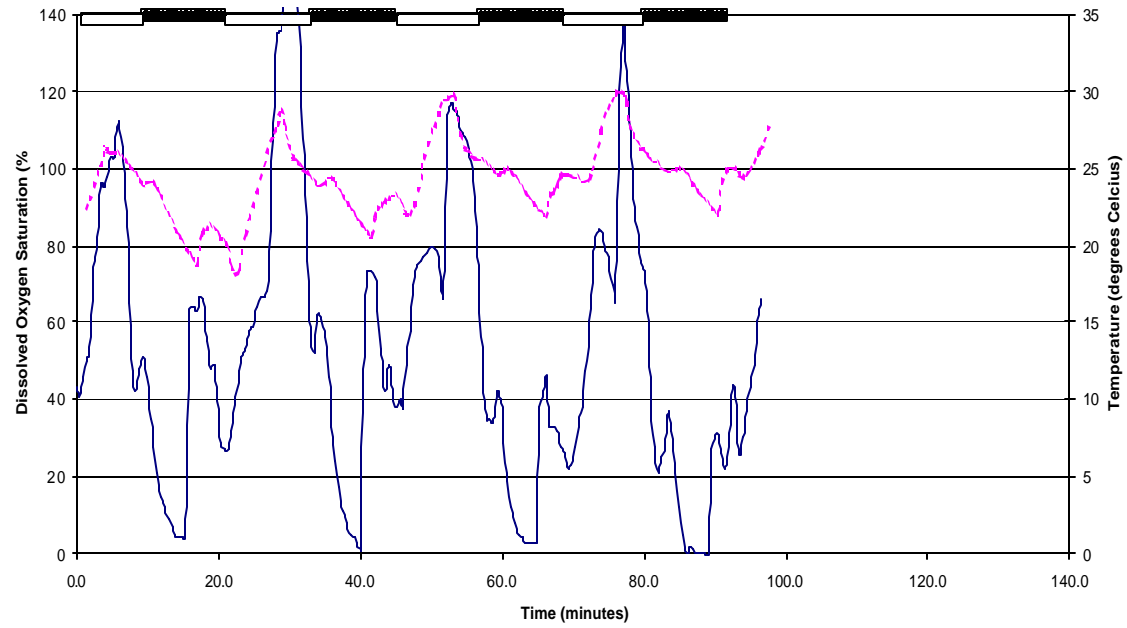
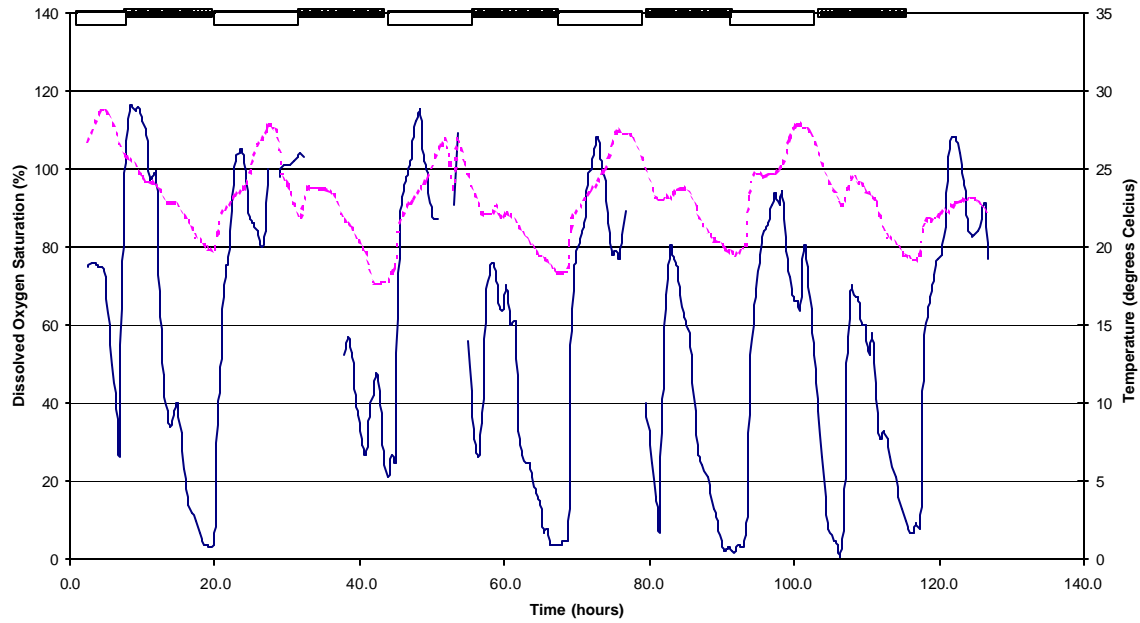


Figure 12:

Larvicide 9/1: Havens Point DO and Temperature



Larvicide 9/1: Johns Neck Channel DO and Temperature

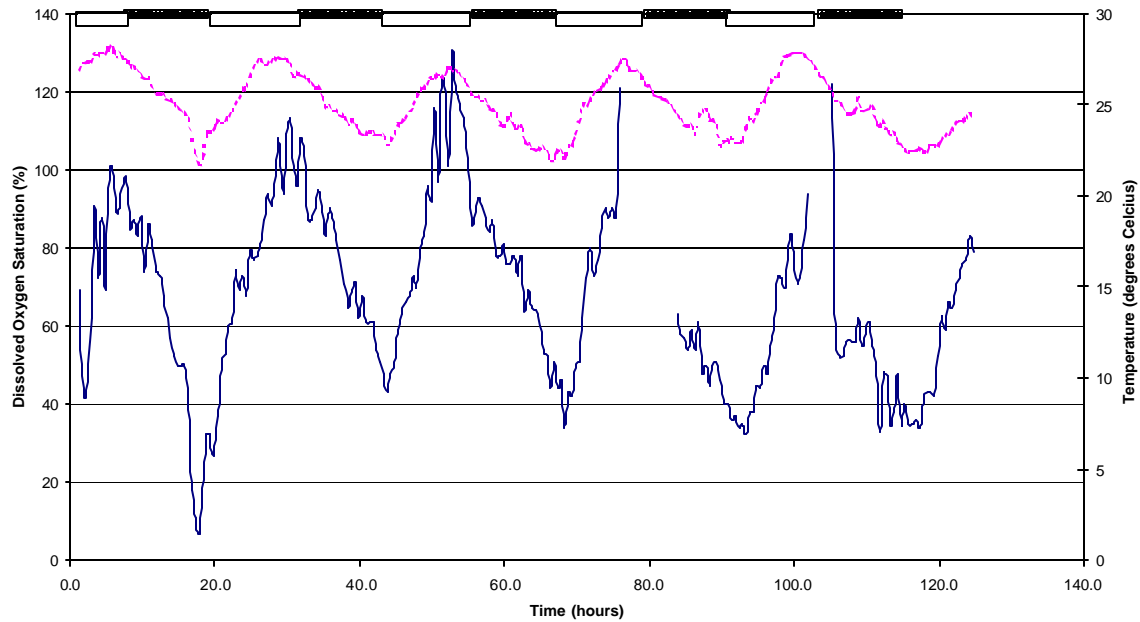
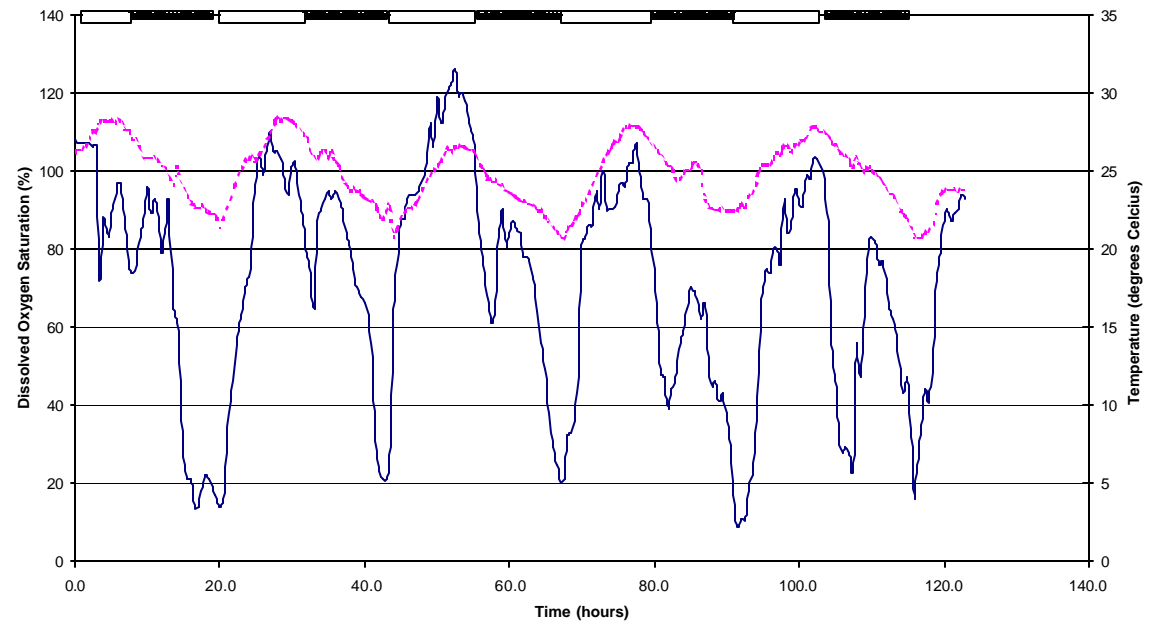
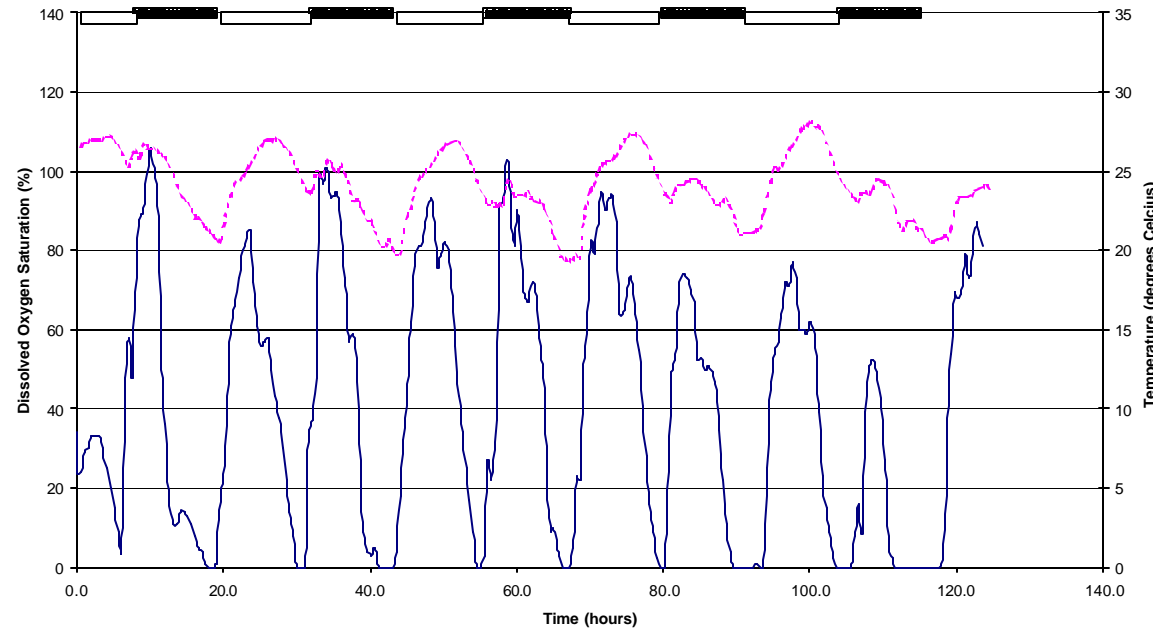


Figure 12 cont'd:

Larvicide 9/1: Timber Point DO and Temperature

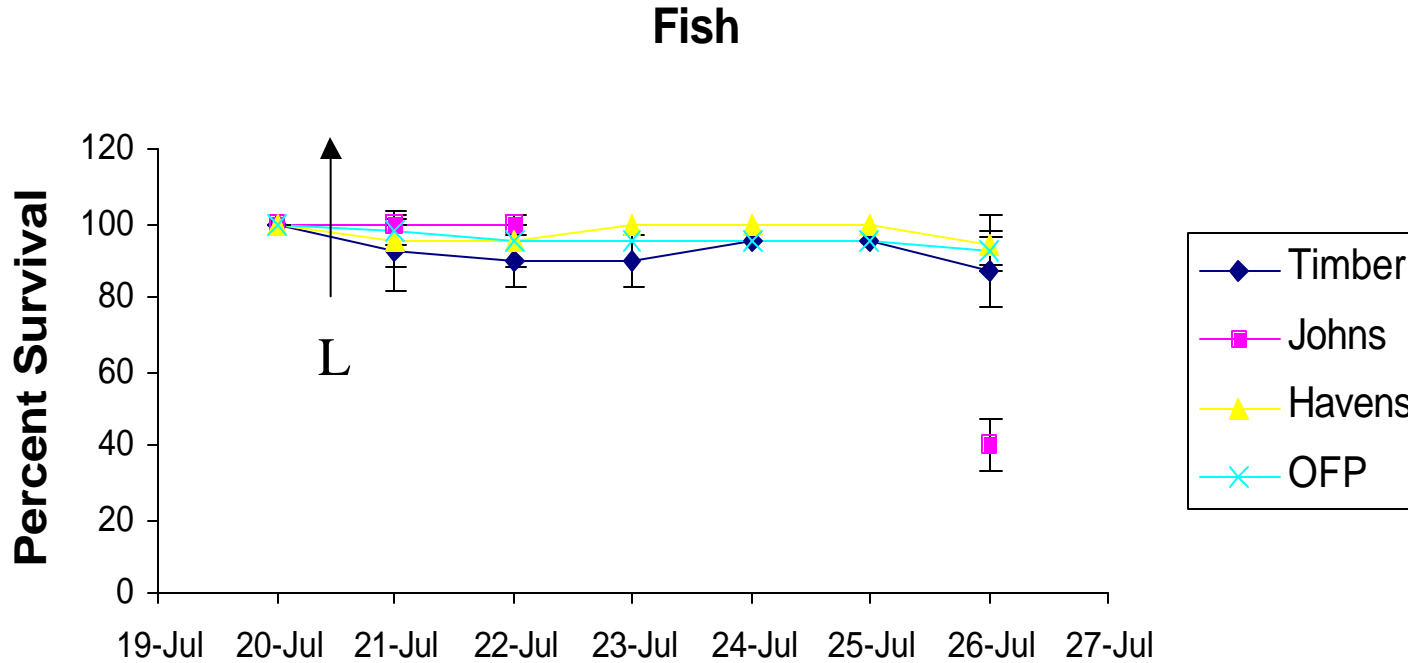


Larvicide 9/1: Johns Neck Ditch DO and Temperature



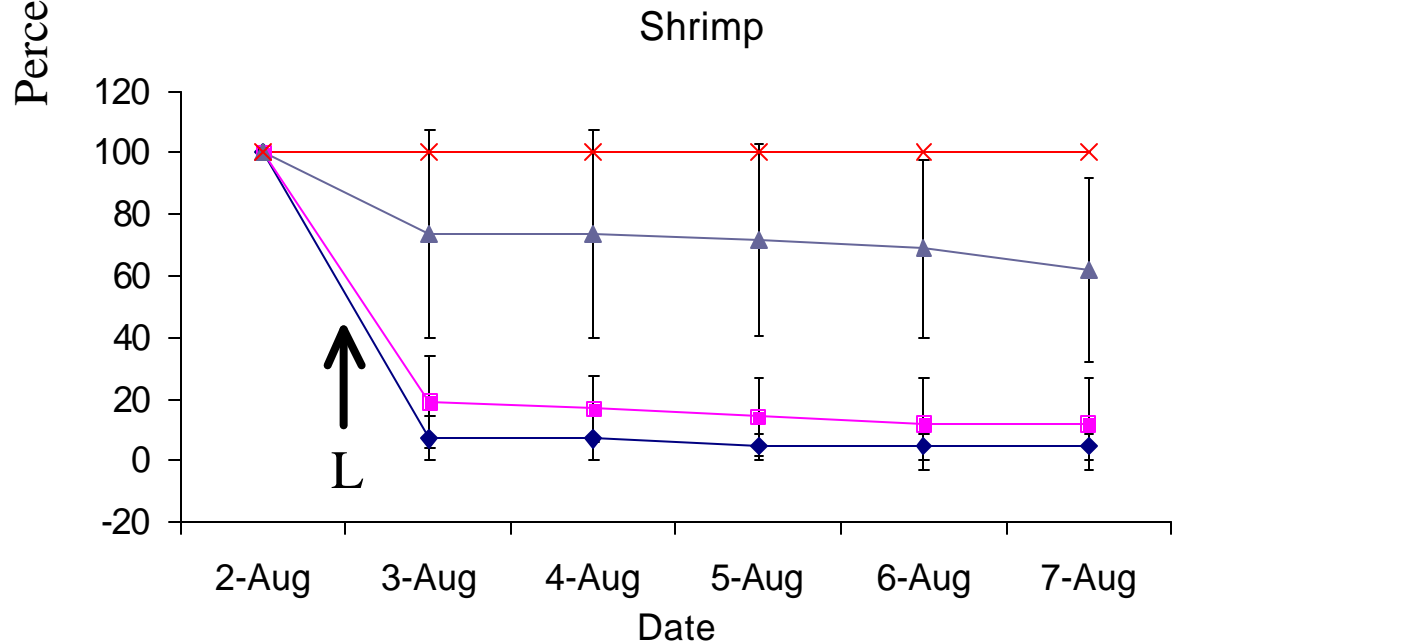
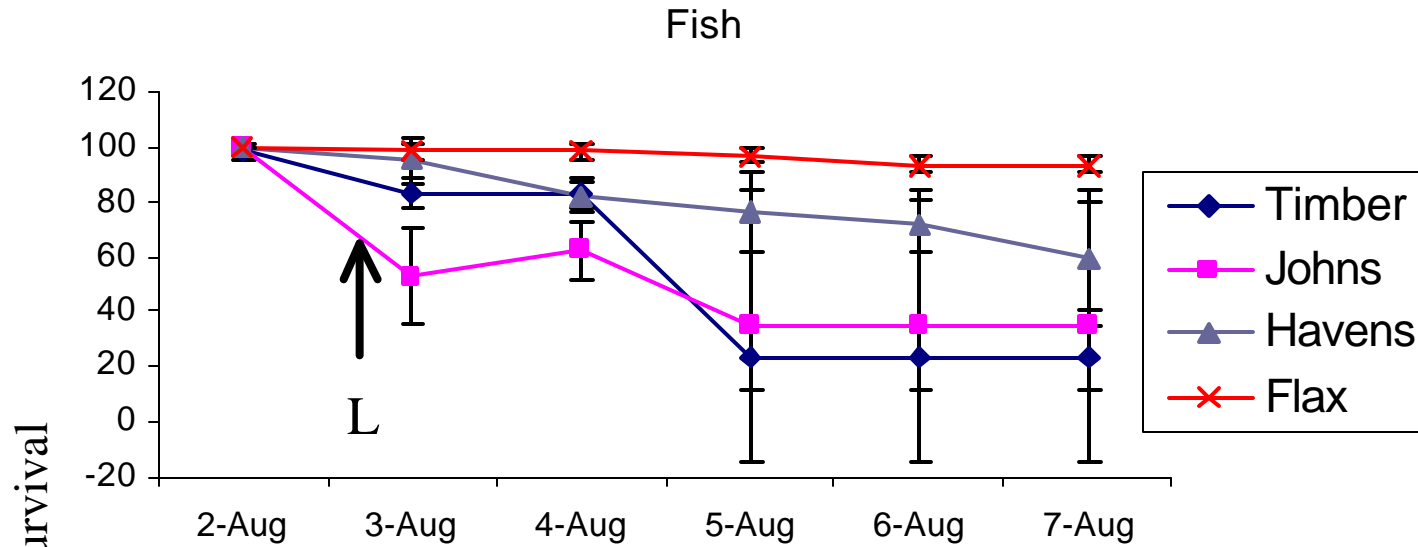
Appendix A: Details of Trial Experiments			
Dates of Evaluation:	Sites Evaluated:	Species Type:	Survival:
6/29 - 7/2	West Gilgo Beach	fish & shrimp	all poor
	Gilgo State Park	fish & shrimp	F: poor; S: good
	West Captree	shrimp	good
	Johns Neck	fish & shrimp	all good
	Havens Point	fish & shrimp	all good
7/2 - 7/6	West Captree	fish	poor
	West Gilgo Beach	fish	poor
	Gilgo State Park	fish	poor
7/9 - 7/12	Beaverdam Creek	shrimp	mixed
	Pepperidge Hall	shrimp	good
	Timber Point	shrimp	poor
	Fireplace Neck	fish & shrimp	poor
	Johns Neck	fish	good
	Havens Point	fish	good
7/15 - 7/19	Beaverdam Creek	shrimp	poor
	Pepperidge Hall	fish & shrimp	F: good; S: mixed
	Fireplace Neck	fish & shrimp	all poor
	Johns Neck	fish & shrimp	F: good; S: good
	Havens Point	fish & shrimp	F: mixed; S: good
7/20 - 7/26	Johns Neck	fish	poor
	Timber Point	fish	good
	Old Fort Pond	fish	good
	Havens Point	fish	good
7/22 - 7/26	Tanners Neck	shrimp	poor
	Speonk	shrimp	poor
7/26 - 7/30	Old Fort Pond	shrimp	good
	Shinnecock Bay (2 sites)	fish & shrimp	all poor
	Flax Pond	fish & shrimp	all good

Appendix B: Unadjusted Fish Survival for 7/20/04

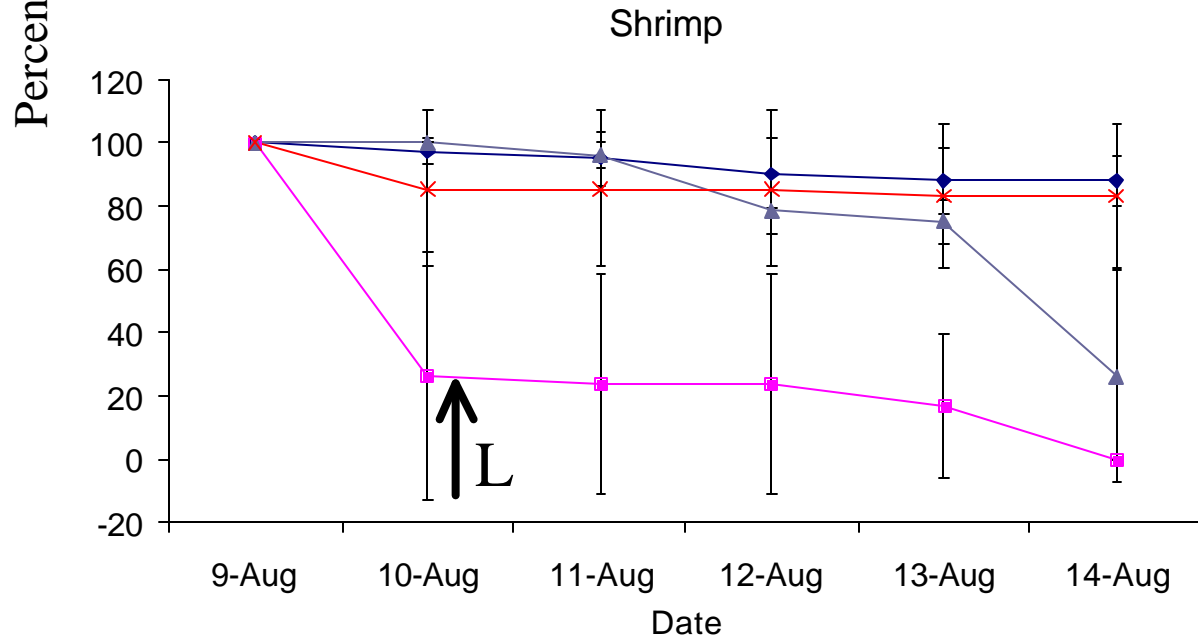
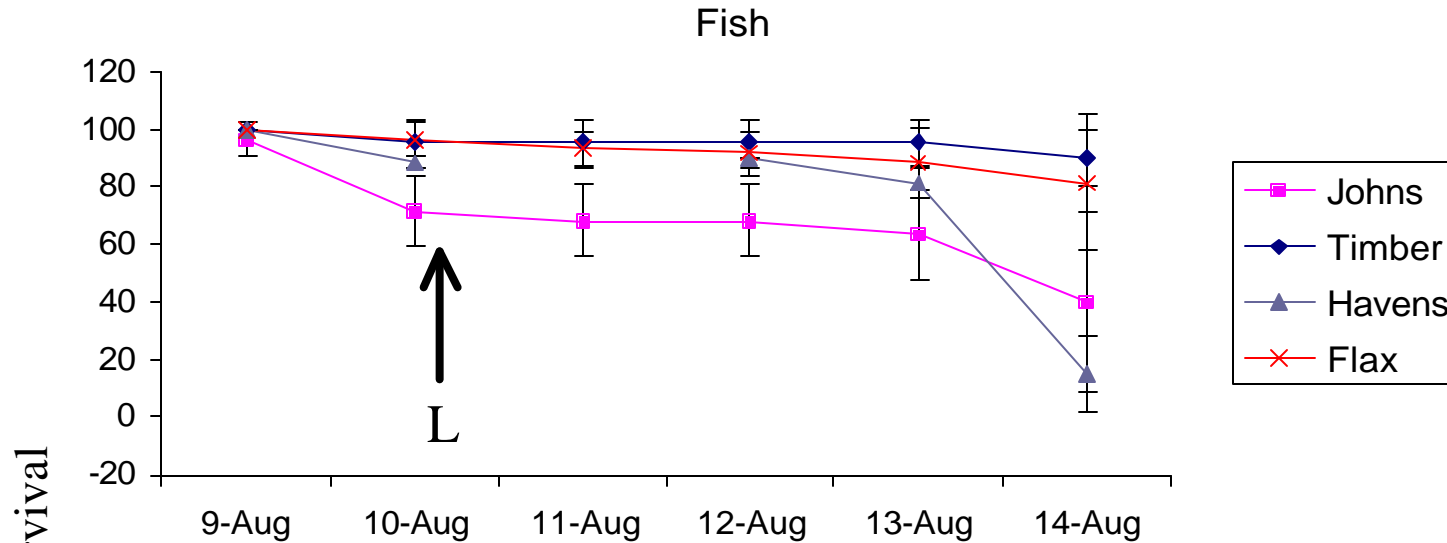


Note: no shrimp were placed during this spray event

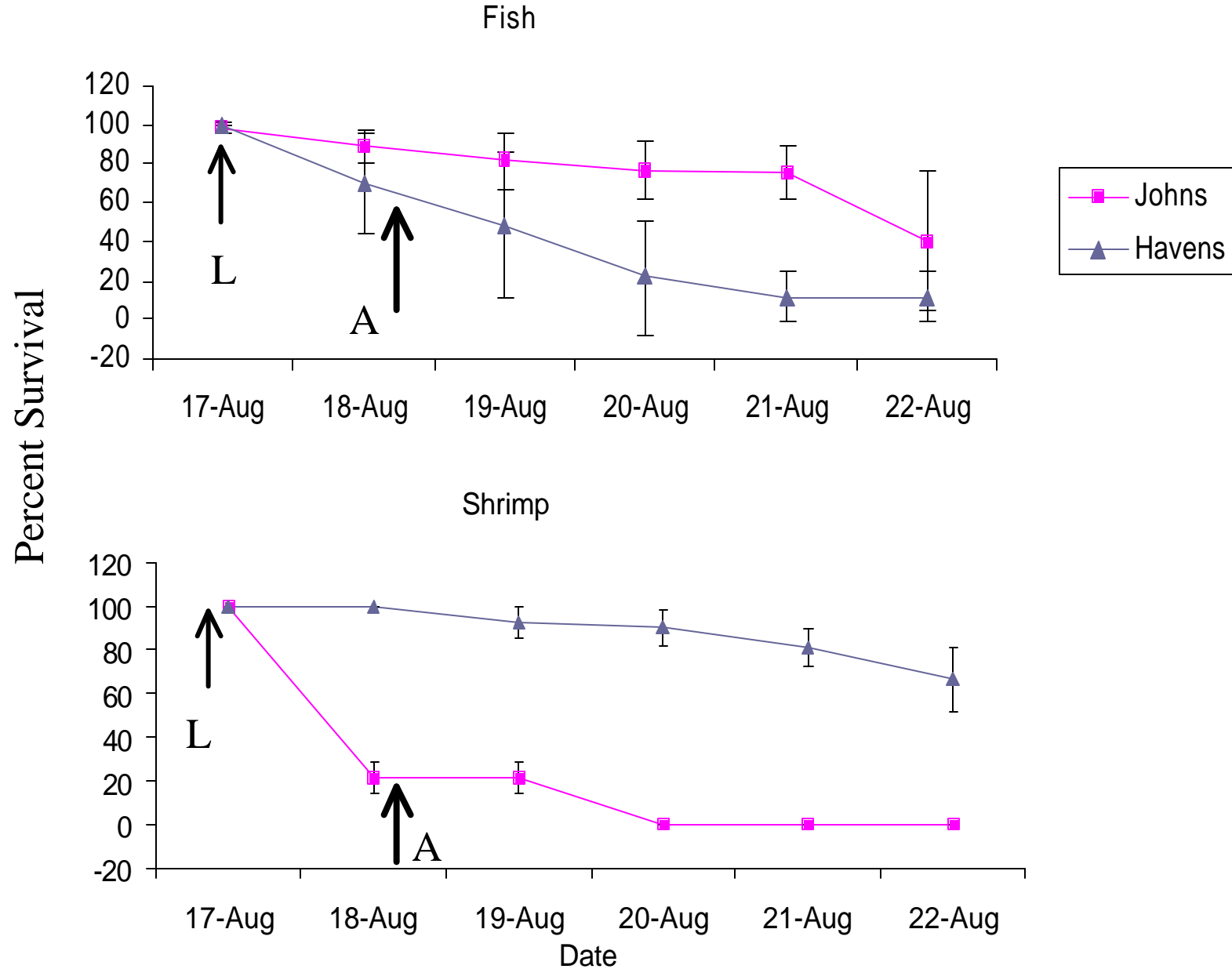
Appendix C: Unadjusted Fish and Shrimp Survival for 8/3/04



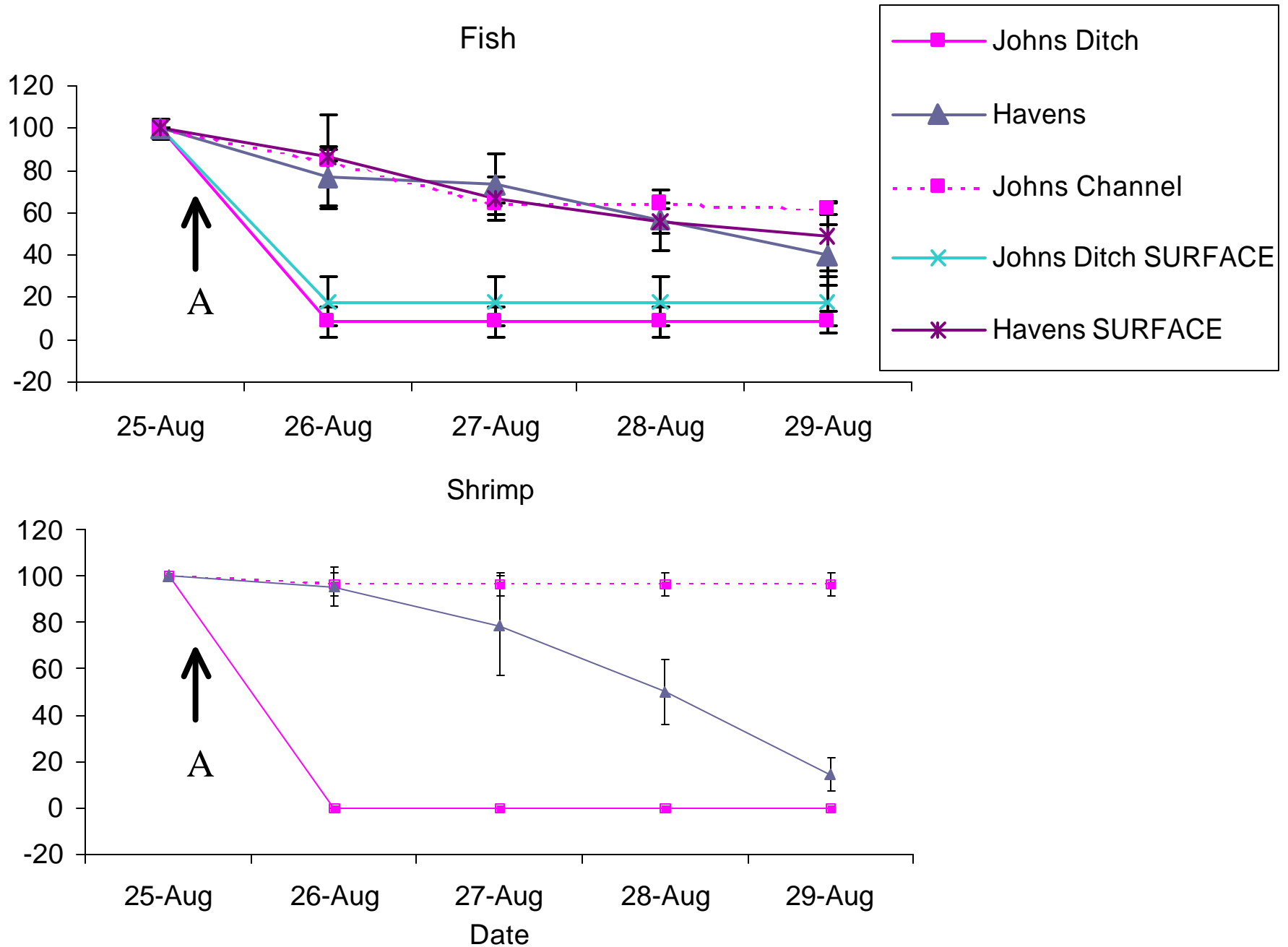
Appendix D: Unadjusted Fish and Shrimp Survival for 8/10/04



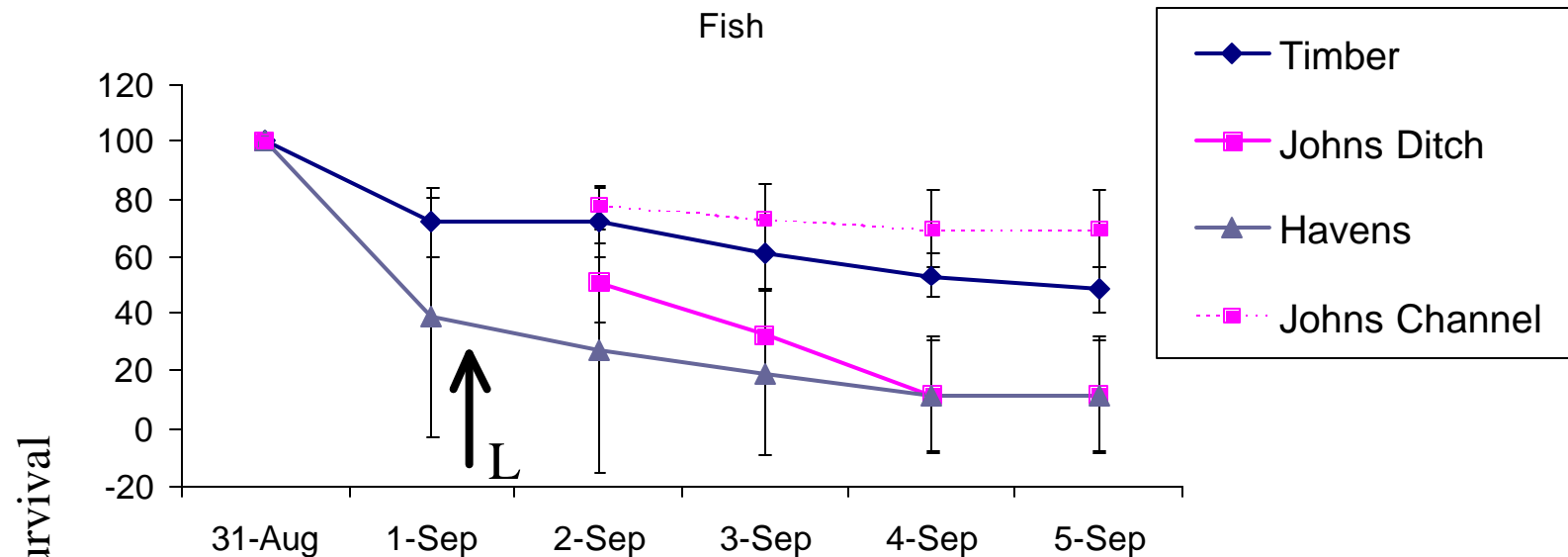
Appendix E: Unadjusted Fish and Shrimp Survival for 8/18/04



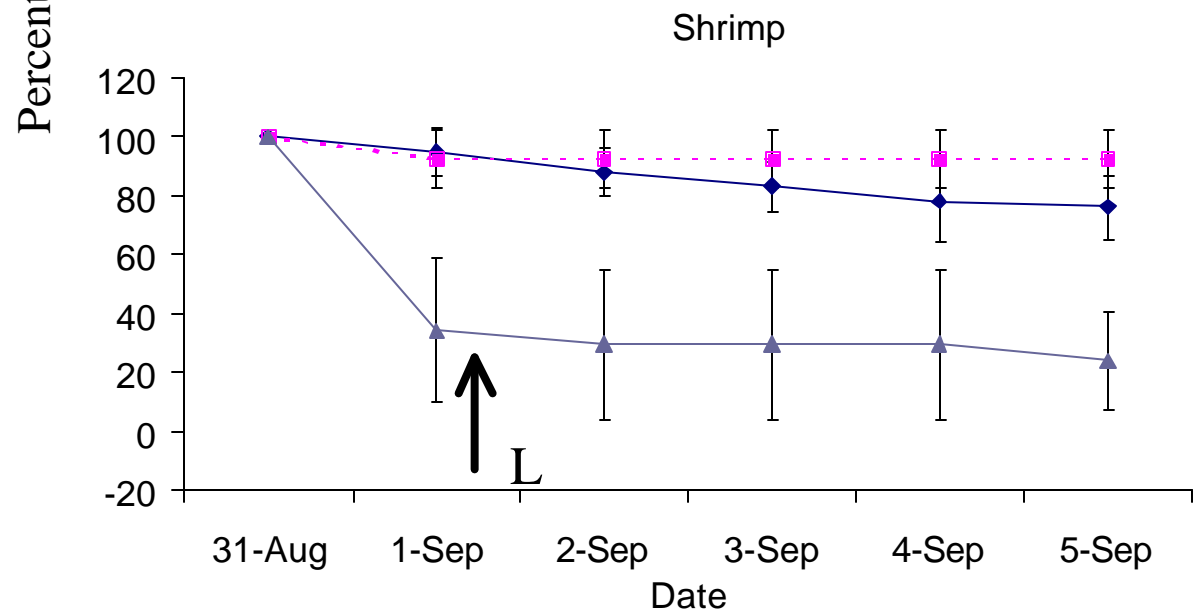
Appendix F: Unadjusted Fish and Shrimp Survival for 8/25/04



Appendix G: Unadjusted Fish and Shrimp Survival for 9/1/04



NOTE: Larvicided ONLY
Timber Point—no other sites!



Appendix H: Fish Survival Data						
<u>7/20/04:</u>						
OLD FORT POND				TIMBER		
	Cage 1	Cage 2			Cage 1	Cage 2
	Alive	Alive			Alive	Alive
20-Jul	20	20		20-Jul	20	20
21-Jul	19	20		21-Jul	20	17
22-Jul	19			22-Jul	19	17
23-Jul	19			23-Jul	19	17
24-Jul	19			24-Jul	19	
25-Jul	19			25-Jul	19	
26-Jul	19	18		26-Jul	19	16
HAVENS				JOHNS		
	Cage 1	Cage 2			Cage 1	Cage 2
	Alive	Alive			Alive	Alive
20-Jul	20	20		20-Jul	20	20
21-Jul	18	20		21-Jul	20	20
22-Jul	18	20		22-Jul	20	20
23-Jul		20		23-Jul		
24-Jul		20		24-Jul		
25-Jul		20		25-Jul		
26-Jul	16	20		26-Jul	7	9

Appendix H cont.									
8/3/04:									
FLAX POND					TIMBER				
	Cage 1	Cage 2	Cage 3			Cage 1	Cage 2	Cage 3	
	Alive	Alive	Alive			Alive	Alive	Alive	
2-Aug	21	19	22		2-Aug	20	20	19	
3-Aug	20	19	22		3-Aug	16	18	16	
4-Aug	20	19	22		4-Aug	16	18	16	
5-Aug	20	19	21		5-Aug	2	6	6	
6-Aug	19	18	21		6-Aug	2	6	6	
7-Aug	19	18	21		7-Aug	2	6	6	
HAVENS					JOHNS				
	Cage 1	Cage 2	Cage 3			Cage 1	Cage 2	Cage 3	
	Alive	Alive	Alive			Alive	Alive	Alive	
2-Aug	19	20	21		2-Aug	20	20	20	
3-Aug	19	17	20		3-Aug	7	14	11	
4-Aug	16	15	17		4-Aug	0	14	11	
5-Aug	16	12	17		5-Aug	0	14	0	
6-Aug	15	12	15		6-Aug	0	14	0	
7-Aug	15	8	12		7-Aug	0	14	0	

Appendix H cont.								
<u>8/9/04:</u>								
FLAX POND					TIMBER			
	Cage 1	Cage 2	Cage 3			Cage 1	Cage 2	Cage 3
	Alive	Alive	Alive			Alive	Alive	Alive
9-Aug	20	20	20		9-Aug	20	20	20
10-Aug	20	20	18		10-Aug	17	20	20
11-Aug	20	18	18		11-Aug	17	20	20
12-Aug	20	18	17		12-Aug	17	20	20
13-Aug	20	18	15		13-Aug	17	20	20
14-Aug	20	18	11		14-Aug	16	20	18
HAVENS					JOHNS			
	Cage 1	Cage 2	Cage 3			Cage 1	Cage 2	Cage 3
	Alive	Alive	Alive			Alive	Alive	Alive
9-Aug	23	21	25		9-Aug	20	18	20
10-Aug	20	19			10-Aug	14	12	17
11-Aug					11-Aug	14	11	16
12-Aug	18	18	18		12-Aug	14	11	16
13-Aug	17	17	15		13-Aug	12	10	16
14-Aug	4	0	5		14-Aug	3	6	15

Appendix H cont.									
8/18/04:									
HAVENS				JOHNS					
	Cage 1	Cage 2	Cage 3			Cage 1	Cage 2	Cage 3	
	Alive	Alive	Alive			Alive	Alive	Alive	
17-Aug	20	20	20			17-Aug	20	19	20
18-Aug	8	18	16			18-Aug	16	18	19
19-Aug	2	17	10			19-Aug	13	18	18
20-Aug	2	11	0			20-Aug	12	16	18
21-Aug	2	5	0			21-Aug	12	16	17
22-Aug	2	5	0			22-Aug	10	14	0
8/25/04:									
HAVENS									
	Cage 1	Cage 2	Cage 3	Cage 4*	Cage 5*				
	Alive	Alive	Alive	Alive	Alive				
25-Aug	20	21	19	20	27				
26-Aug	15	17	14	17	24				
27-Aug	15	16	13	12	20				
28-Aug	11	10	13	12	14				
29-Aug	7	9	8	12	10				
JOHNS									
	Cage 1	Cage 2	Cage 3	Cage 4+	Cage 5+	Cage 6*	Cage 7*		
	Alive	Alive	Alive	Alive	Alive	Alive	Alive		
25-Aug	20	19	20	20	20	20	19		
26-Aug	0	0	5	14	20	2	5		
27-Aug	0	0	5	13	13	2	5		
28-Aug	0	0	5	13	13	2	5		
29-Aug	0	0	5	12	13	2	5		
(* denotes that these cages were held at the surface rather than at normal depth.)									
(+ denotes that these cages were placed in the channel rather than in the ditch at John's Neck.)									

Appendix H cont.								
9/1/04:								
HAVENS				TIMBER				
	Cage 1	Cage 2	Cage 3		Cage 1	Cage 2	Cage 3	
	Alive	Alive	Alive		Alive	Alive	Alive	
31-Aug	18	21	20		31-Aug	21	22	21
1-Sep	1	18	5		1-Sep	18	14	14
2-Sep	1	16	0		2-Sep	18	14	14
3-Sep	1	11	0		3-Sep	15	14	10
4-Sep	0	7	0		4-Sep	13	11	10
5-Sep	0	7	0		5-Sep	12	9	10
JOHNS								
	Cage 1	Cage 2	Cage 3	Cage 4+	Cage 5+	Cage 6+		
	Alive	Alive	Alive	Alive	Alive	Alive		
31-Aug	20	21	20	20	19	20		
1-Sep								
2-Sep	7	12	12	15	14	17		
3-Sep	4	6	10	12	14	17		
4-Sep	0	0	7	12	12	17		
5-Sep	0	0	7	12	12	17		

(+ denotes that these cages were placed in the channel rather than in the ditch at John's Neck.)

Appendix I: Shrimp Survival

(Note: All average survival and average deviations of survival uses post-spray survival data as 100%).

8/3/04

TIMBER POINT

	Day:	cage 1	cage 2	cage 3	AVG sur:	Avg DEV:
		Alive	Alive	Alive		
2-Aug		14	14	14		
3-Aug	1	2	1	0	100	0
4-Aug	2	2	1	0	100	0
5-Aug	3	1	1	0	75	35.35534
6-Aug	4	1	1	0	75	35.35534
7-Aug	5	1	1	0	75	35.35534

HAVENS POINT

	Day:	cage 1	cage 2	cage 3	AVG sur:	Avg DEV:
		Alive	Alive	Alive		
2-Aug		14	14	14		
3-Aug	1	14	5	12	100	0
4-Aug	2	14	5	12	100	0
5-Aug	3	13	5	12	97.61905	4.12393
6-Aug	4	12	5	12	95.2381	8.247861
7-Aug	5	12	4	10	83.01587	2.87034

JOHNS NECK

	Day:	cage 1	cage 2	cage 3	AVG sur:	Avg DEV:
		Alive	Alive	Alive		
2-Aug		14	14	14		
3-Aug	1	5	2	1	100	0
4-Aug	2	4	2	1	93.33333	11.54701
5-Aug	3	4	1	1	76.66667	25.16611
6-Aug	4	4	1	0	43.33333	40.41452
7-Aug	5	4	1	0	43.33333	40.41452

FLAX POND

	Day:	cage 1	cage 2	cage 3	AVG sur:	Avg DEV:
		Alive	Alive	Alive		
2-Aug		14	14	14		
3-Aug	1	14	14	14	100	0
4-Aug	2	14	14	14	100	0
5-Aug	3	14	14	14	100	0
6-Aug	4	14	14	14	100	0
7-Aug	5	14	14	14	100	0

Appendix I cont.													
8/9/04:													
TIMBERPOINT							HAVEN'S POINT						
		cage 1	cage 2	cage 3	AVG sur:	Avg DEV:			cage 1	cage 2	cage 3	AVG sur:	Avg DEV:
	Day	Alive	Alive	Alive				Day	Alive	Alive	Alive		
9-Aug		14	14	14			9-Aug		14	14	14	100	0
10-Aug	1	14	13	14	100	0	10-Aug	1	14	14	14	95.2381	4.12393
11-Aug	2	14	12	14	97.4359	4.441156	11-Aug	2	13	13	14	92.85714	7.142857
12-Aug	3	14	11	13	92.49084	7.698846	12-Aug	3	12	13	14	71.42857	7.142857
13-Aug	4	14	11	12	90.10989	8.582692	13-Aug	4	11	9	10	26.19048	33.75583
14-Aug	5	13	11	13	90.10989	4.758381	14-Aug	5	9	0	2		
JOHN'S NECK							FLAX POND						
		cage 1	cage 2	cage 3	AVG sur:	Avg DEV:			cage 1	cage 2	cage 3	AVG sur:	Avg DEV:
	Day	Alive	Alive	Alive				Day	Alive	Alive	Alive		
9-Aug		14	14	14			9-Aug		14	14	13	100	0
10-Aug	1	10	1	0	100	0	10-Aug	1	8	14	13	83.33333	22.96107
11-Aug	2	9	1		95	7.071068	11-Aug	2	8	14	13	83.33333	22.96107
12-Aug	3	9	1		95	7.071068	12-Aug	3	8	14	13	80.95238	20.61965
13-Aug	4	6	1		80	28.28427	13-Aug	4	8	13	13	80.95238	20.61965
14-Aug	5	0	0		0	0	14-Aug	5	8	13	13		

Appendix I cont.													
8/18/04:													
JOHNS NECK							HAVENS POINT						
	Day	cage 1 Alive	cage 2 Alive	cage 3 Alive	AVG sur:	Avg DEV:		Day	cage 1 Alive	cage 2 Alive	cage 3 Alive	AVG sur:	Avg DEV:
17-Aug							17-Aug						
18-Aug	1	3	2	4	100	0	18-Aug	1	14	14	14	100	0
19-Aug	2	3	2	4	21.42857	7.142857	19-Aug	2	12	14	13	92.85714	7.142857
20-Aug	3	0	0	0	0	0	20-Aug	3	12	14	12	90.47619	8.247861
21-Aug	4	0	0	0	0	0	21-Aug	4	12	12	10	80.95238	8.247861
22-Aug	5	0	0	0	0	0	22-Aug	5	11	7	10	66.66667	14.86904
8/25/04:													
JOHNS NECK							HAVENS POINT						
	Day	cage 1 Alive	cage 2 Alive	cage 3 Alive	AVG sur:	Avg DEV:		Day	cage 1 Alive	cage 2 Alive	cage 3 Alive	AVG sur:	Avg DEV:
25-Aug		14	14	14			25-Aug		14	14	14		
26-Aug	1	0	0	0	n/a	n/a	26-Aug	1	14	12	14	100	0
27-Aug	2	0	0	0	n/a	n/a	27-Aug	2	14	11	8	82.93651	22.72324
28-Aug	3	0	0	0	n/a	n/a	28-Aug	3	7	9	5	53.57143	19.88487
29-Aug	4	0	0	0	n/a	n/a	29-Aug	4	2	1	3	14.68254	6.556632
JOHNS NECK CHANNEL													
	Day	cage 1 Alive	cage 2 Alive		AVG sur:	Avg DEV:							
25-Aug		14	14										
26-Aug	1	13	14		100	0							
27-Aug	2	13	14		100	0							
28-Aug	3	13	14		100	0							
29-Aug	4	13	14		100	0							

Appendix I cont.													
9/1/04:													
TIMBER POINT							HAVENS POINT						
		cage 1	cage 2	cage 3	AVG sur:	Avg DEV:			cage 1	cage 2	cage 3	AVG sur:	Avg DEV:
	Day	Alive	Alive	Alive				Day	Alive	Alive	Alive		
31-Aug		14	14	14			31-Aug		14	14	14		
1-Sep	1	12	14	14	100	0	1-Sep	1	5	7	1	100	0
2-Sep	2	11	13	13	92.46032	0.687322	2-Sep	2	3	7	1	86.66667	23.09401
3-Sep	3	11	13	11	87.69841	7.926581	3-Sep	3	3	7	1	86.66667	23.09401
4-Sep	4	11	13	9	82.93651	16.16303	4-Sep	4	3	7	1	86.66667	23.09401
5-Sep	5	11	12	9	80.55556	14.40099	5-Sep	5	3	5	1	77.14286	20.60315
JOHNS NECK CHANNEL													
		cage 1	cage 2		AVG sur:	Avg DEV:							
	Day	Alive	Alive										
31-Aug		14	14										
1-Sep	1	14	12		100	0							
2-Sep	2	14	12		100	0							
3-Sep	3	14	12		100	0							
4-Sep	4	14	12		100	0							
5-Sep	5	14	12		100	0							

Appendix J: Fish Survival ANOVA Statistics 96 hrs				
Spray Date:	Significant Differences:	p-values:	lower/higher	test type:
7/20/2004	Spray vs. Not sprayed sites	0.0299	sprayed lower	two-way nested ANOVA
	JN vs. TP	0.0184	JN lower	two-way nested ANOVA
	JN vs. Old Fort Pond	< 0.05	JN lower	one way ANOVA with all sites
	JN vs. HP	< 0.05	JN lower	one way ANOVA with all sites
8/3/2004	Spray vs. Non spray	0.059	sprayed lower trend	two-way nested ANOVA
8/10/2004	Spray vs. no spray	0.0931	...	two-way nested ANOVA
	FP vs. HP	0.0053	HP lower	two-way nested ANOVA
	JN vs. TP	0.0527	JN lower trend	two-way nested ANOVA
	HP vs. TP	< 0.05	HP lower	one way ANOVA with all sites
8/18/2004	none	n/a	n/a	one way ANOVA
8/25/2004	JNc vs. JNd	< 0.05	JNd lower	one way ANOVA with all sites
	JNd vs. HP	< 0.05	JNd lower	one way ANOVA with all sites
9/1/2004	TP vs. HP	< 0.05	HP lower	one way ANOVA with all sites
	TP vs. JNd	< 0.05	JNd lower	one way ANOVA with all sites

Appendix K: Shrimp Survival ANOVA Statistics 96 hrs				
Spray Date:	Statistics Runs	p-values:	lower/higher	Test type:
8/3/2004	FP, HP & JN together	0.0356	...	one way ANOVA
	JN vs. FP	< 0.05	JN lower	means comparison
8/10/2004	spray vs. no spray	0.0501	spray lower	two-way nested ANOVA
	FP vs. HP	0.0009	HP lower	two-way nested ANOVA
	JN vs. TP	0.0003	JN lower	two-way nested ANOVA
	TP vs. HP	< 0.05	HP lower	one way ANOVA with all sites
	FP vs. JN	< 0.05	JN lower	one way ANOVA with all sites
8/18/2004	JN vs. HP	0.0005	JN lower	one way ANOVA
8/25/2004	JNd, JNc and HP together	< 0.0001	...	one way ANOVA
	JNc vs. HP	< 0.05	HP lower	one way ANOVA
	JNd vs. HP	< 0.05	JNd lower	one way ANOVA
9/1/2004	TP, HP and JNc together	none...	n/a	one way ANOVA with all sites

Appendix L: Raw DO Data for 8/3/04 Larvicide

			Flax Pond		Johns Neck		Havens Point		Timber Point	
			8/2/04-8/7/04		8/2/04-8/7/04		8/2/04-8/7/04		8/2/04-8/7/04	
				(deg C)		(deg C)		(deg C)		(deg C)
Date:	Time:	Total hours:	DO (%):	Temp:	DO (%):	Temp:	DO (%):	Temp:	DO (%):	Temp:
8/2/04	14:30	0.00								
8/2/04	15:00	0.50							74	29.7
8/2/04	15:30	1.00							73	29.7
8/2/04	16:00	1.50							95	30.4
8/2/04	16:30	2.00							74	30.4
8/2/04	17:00	2.50							83	30.9
8/2/04	17:30	3.00							100	31.1
8/2/04	18:00	3.50			28	27.6	54	28.5	72	31
8/2/04	18:30	4.00			24	27.3	36	28.1	71	30.5
8/2/04	19:00	4.50			16	27.2	22	27.5	59	30.3
8/2/04	19:30	5.00			10	26.8	116	27.2	44	29.7
8/2/04	20:00	5.50			9	26.7	149	26.1	45	29.5
8/2/04	20:30	6.00	30	25.5	34	27.7	137	25.9	58	29.5
8/2/04	21:00	6.50	25	25.1	99	27.9	130	25.6	104	28.6
8/2/04	21:30	7.00	21	24.8	95	27.8	129	25.5	106	28
8/2/04	22:00	7.50	20	24.5	114	27.9	116	25.5	109	28.1
8/2/04	22:30	8.00	17	24.3	129	27.9	108	25.5	112	28.1
8/2/04	23:00	8.50	54	24.6	125	27.9	107	25.5	113	27.6
8/2/04	23:30	9.00	83	22.9	124	27.7	99	25.4	96	27.4
8/2/04	0:00	9.50	85	22.3	128	27.7	87	25.3	105	27.4
8/2/04	0:30	10.00	86	22.1	125	27.7	61	25.2	108	27.4
8/2/04	1:00	10.50	89	21.9	121	27.6	42	24.9	101	27.2
8/3/04	1:30	11.00	85	21.7	113	27.6	31	24.8	93	27.1
8/3/04	2:00	11.50	85	21.7	89	27.2	31	24.6	94	27.1
8/3/04	2:30	12.00	80	21.7	51	26.8	34	24.6	67	26.8

Appendix L cont., page 2:

8/3/04	3:00	12.50	75	21.8	19	26.4	45	24.5	49	26.5
8/3/04	3:30	13.00	66	22	10	25.9	42	24.4	25	26.1
8/3/04	4:00	13.50	59	22.2	8	25.5	35	24.1	15	25.8
8/3/04	4:30	14.00	54	22.3	10	25.3	25	24	11	25.6
8/3/04	5:00	14.50	47	22.5	12	25.1	19	23.8	8	25.5
8/3/04	5:30	15.00	42	22.6	13	24.9	12	23.5	8	25.5
8/3/04	6:00	15.50	39	22.5	13	24.6	9	23.2	7	25.2
8/3/04	6:30	16.00	36	22.5	13	24.3	7	22.9	6	25.2
8/3/04	7:00	16.50	36	22.6	9	24.2	7	22.7	5	25
8/3/04	7:30	17.00	36	22.7	9	23.9	5	22.6	5	25.1
8/3/04	8:00	17.50	39	23.7	7	23.7	8	22.7	3	25.1
8/3/04	8:30	18.00	46	23.7	3	23.7	69	25.3	1	25.2
8/3/04	9:00	18.50	56	24.4	0	23.8	94	25.4	7	25.1
8/3/04	9:30	19.00	58	24.8	30	24.8	71	25.8	9	25.3
8/3/04	10:00	19.50	58	25	37	25.4	81	26	10	25.4
8/3/04	10:30	20.00	61	25.2	49	25.7	77	25.9	41	25.8
8/3/04	11:00	20.50	66	25.7	61	26.2	80	25.6	55	26.3
8/3/04	11:30	21.00	83	26.1	81	27.3	85	25.3	84	27.7
8/3/04	12:00	21.50	105	24.4	91	27.4	83	25.3	90	27
8/3/04	12:30	22.00	123	23.9	103	27.5	83	25.5	111	27.2
8/3/04	13:00	22.50	125	24.3	109	27.5	65	26.1	105	27.3
8/3/04	13:30	23.00	132	23.9	115	27.7	64	27	104	27.6
8/3/04	14:00	23.50	126	24	110	28	70	27.9	113	28
8/3/04	14:30	24.00	124	24.2	59	28.2	75	28.5	86	28.5
8/3/04	15:00	24.50	126	24.6	55	28.4	81	28.8	85	29.2
8/3/04	15:30	25.00	118	25.3	50	28.6	80	29	70	29.5
8/3/04	16:00	25.50	113	26.2	51	28.9	77	29.1	59	29.5
8/3/04	16:30	26.00	105	26.8	49	28.4	70	29	78	29.5
8/3/04	17:00	26.50	105	27.2	40	27.9	70	28.7	52	29.3
8/3/04	17:30	27.00	101	27.4	32	27.5	65	28.3	64	29.3
8/3/04	18:00								52	29.2
8/3/04	18:30	28.00	95	27.5	20	26.7	37	27	45	28.9
8/3/04	19:00	28.50	87	27.3	15	26.4	27	26.5	33	28.7

Appendix L cont., page 3:

8/3/04	19:30	29.00	74	27	11	25.8	18	26.1	20	28.4
8/3/04	20:00	29.50	59	26.6	7	25.4	70	25.8	18	28.1
8/3/04	20:30	30.00	46	26.2	5	25.5	100	25.6	37	28.2
8/3/04	21:00	30.50	34	25.7	63	27	113	25.4	56	28
8/3/04	21:30	31.00	25	25.3	82	27.1	109	25.6	63	27.7
8/3/04	22:00	31.50	21	24.9	109	27.3	101	25.6	79	27.4
8/3/04	22:30	32.00	18	24.5	109	27.4	101	25.7	92	27.5
8/3/04	23:00	32.50	15	24.2	111	27.3	100	25.6	86	27.5
8/3/04	23:30	33.00	15	23.9	114	27.3	96	25.6	82	27.3
8/4/04	0:00	33.50	23	23	112	27.2	90	25.5	92	27.3
8/4/04	0:30	34.00	67	24.2	108	27.2	80	25.4	89	27.2
8/4/04	1:00	34.50	91	22.8	105	27.2	63	25.3	80	27.1
8/4/04	1:30	35.00	93	22.4	103	26.9	39	25	78	27.1
8/4/04	2:00	35.50	91	22.4	71	26.7	28	24.7	72	27
8/4/04	2:30	36.00	92	22.2	41	26.5	26	24.4	71	26.8
8/4/04	3:00	36.50	88	22.2	25	26.2	29	24.3	43	26.4
8/4/04	3:30	37.00	85	22.1	11	25.8	36	24.2	24	25.9
8/4/04	4:00	37.50	80	22.1	6	25.3	35	24.1	14	25.4
8/4/04	4:30	38.00	72	22.1	8	25	26	23.9	10	25
8/4/04	5:00	38.50	64	22.2	11	24.9	21	23.8	7	24.8
8/4/04	5:30	39.00	59	22.2	10	24.7	15	23.6	7	24.8
8/4/04	6:00	39.50	54	22.4	10	24.4	11	23.3	3	24.6
8/4/04	6:30	40.00	45	22.5	10	24.1	8	23	6	24.5
8/4/04	7:00	40.50	42	22.6	7	24	7	22.8	6	24.5
8/4/04	7:30	41.00	38	22.6	5	23.7	7	22.6	7	24.6
8/4/04	8:00	41.50	38	22.7	2	23.7	7	22.6	9	24.7
8/4/04	8:30	42.00	40	23	7	23.6	12	22.8	13	25.1
8/4/04	9:00	42.50	47	23.7	6	23.8	79	25.3	16	25.4
8/4/04	9:30								60	26.3
8/4/04	10:00	43.50	66	25.4	21	25	117	25.7	67	26.5
8/4/04	10:30	44.00	73	26.5	62	27	118	26	70	27
8/4/04	11:00	44.50	74	27.6	62	27	115	26.1	94	27.6
8/4/04	11:30	45.00	81	28.9	74	27.4	126	26.3	99	27.9

Appendix L cont., page 4:

8/4/04	12:00	45.50	87	30.1	86	27.9	128	26.4	101	27.9
8/4/04	12:30	46.00	113	32.1	99	28.3	130	26.6	103	28.2
8/4/04	13:00	46.50	96	27.3	113	28.4	126	26.3	106	28.6
8/4/04	13:30	47.00	117	25.1	119	28.5	102	28	102	28
8/4/04	14:00	47.50	127	24.9	120	28.7	92	29.3	93	28.5
8/4/04	14:30	48.00	125	25.5	117	29.2	87	30.4	94	28.5
8/4/04	15:00	48.50	128	25.1	106	29.7	88	30.9	86	29.8
8/4/04	15:30	49.00	121	25.5	71	29.8	91	30.9	71	30.6
8/4/04	16:00	49.50	128	25.4	40	30.2	101	30.4	61	31.1
8/4/04	16:30	50.00	127	26.1	27	30.3	89	30.1	53	31.7
8/4/04	17:00	50.50	120	27	23	30.4	77	29.7	48	31.7
8/4/04	17:30	51.00	109	27.7	25	30.2	71	29.1	36	31.4
8/4/04	18:00	51.50	100	28	27	29.8	59	28.3	28	31.1
8/4/04	18:30	52.00	94	28.2	25	29.3	44	27.8	38	30.7
8/4/04	19:00						30	27.2	29	30.5
8/4/04	19:30	52.87	78	28.1	17	28.2	16	26.8	25	30.2
8/4/04	20:00	53.37	66	27.8	13	27.7	51	26.6	18	29.8
8/4/04	20:30	53.87	51	27.4	7	27.1	83	26.5	15	29.4
8/4/04	21:00	54.37	39	27	3	26.7	98	26.3	19	29.7
8/4/04	21:30	54.87	29	26.7	2	26.6	105	26	17	29.6
8/4/04	22:00	55.37	22	26.3	35	27.6	95	25.8	45	29.4
8/4/04	22:30	55.87	16	26	80	28.1	95	25.7	68	28.4
8/4/04	23:00	56.37	15	25.7	80	28.1	104	25.6	76	28.1
8/4/04	23:30	56.87	13	25.4	91	28.1	100	25.5	78	28
8/4/04	0:00	57.37	12	25.2	94	28.1	96	25.4	80	27.8
8/5/04	0:30	57.87	11	25	108	28.1	87	25.2	82	27.5
8/5/04	1:00	58.37	23	24.6	109	27.9	77	25.2	71	27.3
8/5/04	1:30	58.87	55	25	105	27.8	61	25	72	27.3
8/5/04	2:00	59.37	79	23.7	101	27.8	42	24.8	69	27.2
8/5/04	2:30	59.87	91	23.4	89	27.6	28	24.7	63	27.1
8/5/04	3:00	60.37	88	23.2	76	27.4	22	24.5	50	26.9
8/5/04	3:30	60.87	92	22.9	51	27	24	24.5	20	26.2
8/5/04	4:00	61.37	88	22.8	25	26.6	24	24.3	18	26.2

Appendix L cont., page 5:

8/5/04	4:30	61.87	88	22.7	9	26.3	28	24.1	5	25.5
8/5/04	5:00	62.37	83	22.6	7	25.9	22	23.9	6	25
8/5/04	5:30	62.87	72	22.4	5	25.5	18	23.4	1	24.7
8/5/04	6:00	63.37	63	22.3	7	24.9	19	22.8	1	24.5
8/5/04	6:30	63.87	56	22.3	10	24.6	17	22.4	2	24.3
8/5/04	7:00	64.37	49	22.3	9	24.3	13	22	1	24.1
8/5/04	7:30	64.87	41	22.3	8	24	10	21.6	4	24
8/5/04	8:00	65.37	40	22	9	23.8	10	21.3	1	23.8
8/5/04	8:30	65.87	38	21.7	6	23.5	9	21	1	23.6
8/5/04	9:00	66.37	37	21.4	6	23.2	26	21.2	2	23.4
8/5/04	9:30	66.87	39	21.1	4	22.9	52	22.3	5	23.1
8/5/04	10:00	67.37	44	21	2	22.7	55	22.7	7	23.2
8/5/04	10:30	67.87	50	21.5	22	23.8	58	23.1		
8/5/04	11:00	68.37	58	21.8	27	24.2	62	23.2	59	24.6
8/5/04	11:30	68.87	67	22.1	25	24.3	72	23.5	55	24.6
8/5/04	12:00	69.37	67	22	38	24.5			60	24.9
8/5/04	12:30	69.87	71	22.1	62	25.1	95	23.8	70	25.2
8/5/04	13:00	70.37	80	22.8	73	25.1	97	23.9	74	25.2
8/5/04	13:30	70.87	81	22.5	84	25.2	93	23.9	72	25.2
8/5/04	14:00	71.37	89	22.9	95	25.2			68	25.2
8/5/04	14:30	71.87	89	23	96	25.3	69	23.6	72	25.4
8/5/04	15:00	72.37	93	23.2	95	25.4	66	23.6	71	25.5
8/5/04	15:30	72.87	96	23.2	81	25.9	61	23.7	71	25.7
8/5/04	16:00	73.37	91	23.2	56	25.7	59	23.7	77	25.8
8/5/04	16:30	73.87	89	23.1	48	25.6	62	23.8	59	26
8/5/04	17:00	74.37	94	23.4	27	25.4	66	23.9	64	26.2
8/5/04	17:30	75.12	95	24	22	25	61	24.1	55	26
8/5/04	18:00	75.62	91	24.4	23	24.9	54	24.1	48	25.8
8/5/04	18:30	76.12	90	24.4	20	24.6	47	23.8	37	25.6
8/5/04	19:00	76.62	80	24.5	17	24.2	43	23.4	29	25.4
8/5/04	19:30	77.12	72	24.4	12	23.8	35	22.8	24	25.2
8/5/04	20:00	77.62	64	24.3	9	23.5	26	22.5	15	25
8/5/04	20:30	78.12	56	24	6	23	17	22.4	9	24.8

Appendix L cont., page 6:

8/5/04	21:00	78.62	46	23.6	3	23	60	22.8	11	24.6
8/5/04	21:30	79.12	38	23.3	1	22.8	71	23.4	8	24.5
8/5/04	22:00	79.62	31	22.8	42	24.1	79	23.7	29	24.2
8/5/04	22:30	80.12	25	22.5	56	24.5	76	23.8	66	24.2
8/5/04	23:00	80.62	24	22	55	24.4	59	23.7	47	24.4
8/5/04	23:30	81.12	23	21.6	65	24.5	69	23.5	56	24.5
8/6/04	0:00	81.62	22	21.1	72	24.6	73	23.4	48	24.6
8/6/04	0:30	82.12	23	20.5	74	24.5	69	23.3	60	24.9
8/6/04	1:00	82.62	23	20.1	80	24.4	66	23.2	45	25.2
8/6/04	1:30	83.12	41	19.9	78	24.4	59	23.1	45	25.4
8/6/04	2:00	83.62	53	20.2	76	24.2	52	22.8	39	25.5
8/6/04	2:30	84.12	74	21.2	66	24.1	36	22.4	47	25
8/6/04	3:00	84.62	77	21.2	59	23.9	25	21.9	55	24.4
8/6/04	3:30	85.12	77	21.2	33	23.3	22	21.6	56	24.3
8/6/04	4:00	85.62	76	21.1	19	22.8	22	21.4	32	23.9
8/6/04	4:30	86.12	75	21.1	10	22.3	26	21.3	20	23.5
8/6/04	5:00	86.62	69	21	7	21.8	25	21	11	22.7
8/6/04	5:30	87.12	66	20.7	10	21.5	18	20.8	4	21.6
8/6/04	6:00	87.62	59	20.3	11	21.3	15	20.4	3	21.2
8/6/04	6:30	88.12	55	20	10	21.1	14	20	2	20.8
8/6/04	7:00	88.62	53	19.9	8	20.7	15	19.5	4	20.6
8/6/04	7:30	89.12	50	19.7	12	20.2	16	19.1	5	20.5
8/6/04	8:00	89.62	47	19.5	10	20	17	19	9	20.4
8/6/04	8:30	90.12	45	19.2	9	20.3	16	18.9	7	20.3
8/6/04	9:00	90.62	47	19.3	6	20.2	14	18.9	9	20.3
8/6/04	9:30	91.12	50	19.4	5	20.5	54	20	12	20.4
8/6/04	10:00	91.62	57	20.1	7	21	74	21.4	16	20.6
8/6/04	10:30	92.12	67	21.2	22	21.7	83	21.6	27	21
8/6/04	11:00	92.62	76	22.1	47	23	94	21.8	33	21.5
8/6/04	11:30	93.12	85	23.8	56	23.5	98	22.2	65	22.5
8/6/04	12:00	93.62	92	25.3	62	24	102	22.4	74	22.9
8/6/04	12:30	94.12	91	26.5	71	24.4	97	22.5	83	23.3
8/6/04	13:00	94.62	97	27.7	86	24.3	103	22.7	81	23.5

Appendix L cont., page 7:

8/6/04	13:30	95.12	94	30.2	90	24.7	108	22.9	88	23.7
8/6/04	14:00	95.62	101	27	99	24.8	108	22.9	89	23.9
8/6/04	14:30	96.12	91	23.4	102	25	100	23	82	24.4
8/6/04	15:00	96.62	91	22.6	108	25.1	111	23.3	88	24.4
8/6/04	15:30	97.12	95	22.4	111	25.2	96	23.7	68	24.8
8/6/04	16:00	97.62	96	22.7	97	25.3	86	24.1	78	24.8
8/6/04	16:30	98.12	97	22.5	77	25.2	81	24.5	84	24.7
8/6/04	17:00	98.62	85	22.5	77	25.2	79	24.6	72	24.8
8/6/04	17:30	99.12	90	22.7	52	25	75	24.6	56	25.1
8/6/04	18:00	99.62	88	22.9	33	24.8	79	24.3	57	25.1
8/6/04	18:30	100.12	86	23.1	20	24.6	70	24	47	24.8
8/6/04	19:00	100.35	82	23.3			61	23.6	34	24.5
8/6/04	19:30	100.85	83	22.9	16	24.2	60	23.3	24	24.2
8/6/04	20:00	101.35	70	23.5	16	23.8	51	22.6	15	23.8
8/6/04	20:30	101.85	62	23.4	14	23.5	44	22	14	23.4
8/6/04	21:00	102.35	54	23.2	14	23.1	31	21.5	8	22.9
8/6/04	21:30	102.85	46	22.8	11	22.7	18	21.3	3	22.6
8/6/04	22:00	103.35	40	22.2	10	22.2	34	21.1	1	22.3
8/6/04	22:30	103.85	35	21.4	10	21.7	66	21.4	0	22
8/6/04	23:00	104.35	32	20.8	6	21.5			3	21.7
8/6/04	23:30	104.85	29	20.2	2	21.4			4	21.6
8/6/04	0:00	105.35	27	19.6	2	21.3			15	21.6
8/7/04	0:30	105.85	25	19.1	6	21.3			39	22.2
8/7/04	1:00	106.35	23	18.6	20	21.4			45	22.9
8/7/04	1:30	106.85	22	18.2	25	21.4			40	23
8/7/04	2:00	107.35	21	17.9	59	22.5			26	23.9
8/7/04	2:30	107.85	21	17.7	68	22.6			27	24.1
8/7/04	3:00	108.35	45	17.4	72	22.6			17	24.4
8/7/04	3:30	108.85	56	19.3	75	22.3			16	24.5
8/7/04	4:00	109.35	62	20.1	77	22.2			14	24.2
8/7/04	4:30	109.85	65	20.2	65	22.1			11	23.9
8/7/04	5:00	110.35	65	20.3	47	21.6			4	22.5
8/7/04	5:30	110.85	64	20.2	29	20.9			5	21

Appendix M: Raw DO Data for 8/9/04 Larvicide											
			Flax Pond		Johns Neck		Havens Point		Timber Point		
			8/9/04-8/14/04		8/9/04-8/14/04		8/9/04-8/14/04		8/9/04-8/14/04		
				(deg C)		(deg C)		(deg C)		(deg C)	
Date:	Time:	Total hours:	DO (%):	Temp:	DO (%):	Temp:	DO (%):	Temp:	DO (%):	Temp:	
8/9/04	16:00	0.00							110	26.8	
8/9/04	16:30	0.50							122	26.5	
8/9/04	17:00	1.00							108	26.4	
8/9/04	17:30	1.50			114	28.5			112	25.9	
8/9/04	18:00	2.00			110	27.6			120	25.6	
8/9/04	18:30	2.50			93	27.5	90	26.6	115	24.9	
8/9/04	19:00	3.00			80	27.4	83	27	116	25.2	
8/9/04	19:30	3.50			113	26.6	74	26.6	101	25.3	
8/9/04	20:00	4.00			124	26.4	69	26.3	97	25.1	
8/9/04	20:30	4.50		22.5	114	25.5	61	25.6	94	25.1	
8/9/04	21:00	5.00		22.7	117	25.2	51	25	88	25.2	
8/9/04	21:30	5.50		22.9	74	25.4	40	24.3	92	25.5	
8/9/04	22:00	6.00		23.3	27	24.4	30	23.7	85	25.2	
8/9/04	22:30	6.50		23.6	16	23.5	24	23.1	80	24.9	
8/9/04	23:00	7.00		23.6	10	22.4	16	22.6	75	24.6	
8/9/04	23:30	7.50		23.2	9	21.9	12	22.2	70	24.7	
8/10/04	0:00	8.00		21	7	21.5	10	21.7	65	24.5	
8/10/04	0:30	8.50		20	6	21.2	8	21.3	57	24.5	
8/10/04	1:00	9.00		19.7	6	21	7	20.8	50	24.1	
8/10/04	1:30	9.50		19.4	2	21	7	20.4	39	23.9	
8/10/04	2:00	10.00		18.7	59	22.2	14	20.6	30	23.6	
8/10/04	2:30	10.50		18.7	54	22.6	69	22.9	41	23.8	
8/10/04	3:00	11.00		18.5	62	22.6	84	22	41	23.5	
8/10/04	3:30	11.50		18.4	61	22.7	102	22.6	48	23.8	

Appendix M cont., page 2:

8/10/04	4:00	12.00		18.1	66	22.9	86	22.8	60	23.9
8/10/04	4:30	12.50		17.6	79	23.6	73	22.6	58	23.6
8/10/04	5:00	13.00		16.9	73	23.1	74	22.3	56	23.8
8/10/04	5:30	13.50		16.4	70	22.8	71	22	72	23
8/10/04	6:00	14.00		20	65	22.3	56	21.7	69	23.2
8/10/04	6:30	14.50		21.3	59	22	45	20.7	78	23.1
8/10/04	7:00	15.00		21.6	57	21.7	29	19.3	83	23.3
8/10/04	7:30	15.50		21.7	44	22.1	26	18.9	94	22.9
8/10/04	8:00	16.00		21.9	38	22.3	25	19.1	80	23.4
8/10/04	8:30	16.50		22.1	42	22.5	28	19.7	85	23.6
8/10/04	9:00	17.00		22	32	22.6	31	20.2		
8/10/04	9:30	17.50		22.2	16	21.8	32	20.9	106	24.4
8/10/04	10:00	18.00		22.2	16	22.5	37	21.8	75	24.5
8/10/04	10:30	18.50		22.4	15	23.4	39	22.2	65	24.7
8/10/04	11:00	19.00		22.9	17	23.8	45	23.1	79	25.5
8/10/04	11:30	19.50		23.8	23	25	52	23.9	78	26
8/10/04	12:00	20.00		25	24	26.2	60	25	75	26.9
8/10/04	12:30	20.50		27.3	24	27	54	25.9	108	27.2
8/10/04	13:00	21.00		29.7	11	28.7	53	26.4	115	28.2
8/10/04	13:30	21.50		30.9	52	29.4	92	28.8	117	29.1
8/10/04	14:00	22.00		31	72	29.8	100	27.5	116	28.7
8/10/04	14:30	22.50		31.3	74	30.1	110	26.9	116	28.6
8/10/04	15:00	23.00		29.4	92	29.8	115	26.7	121	29
8/10/04	15:30	23.50		30.1	109	29.4	115	26.7	119	28.2
8/10/04	16:00	24.00		29.8		28.9	111	26.6	112	27.9
8/10/04	16:30	24.12	92	29.8		28.8	107	26.4	117	27.9
8/10/04	17:00	24.62	90	29.5		28.8	111	26.2	120	27.7
8/10/04	17:30	25.12	82	28.6		28.7	103	26	112	27.6
8/10/04	18:00	25.62	95	27		28.6	99	25.9	112	27.2
8/10/04	18:30	26.12	98	26		28.3	102	25.8	107	27
8/10/04	19:00	26.62	98	23.1		28.1	67	25.7	101	26.7
8/10/04	19:30	27.12	94	22.5		27.9	54	26.1	98	26.3
8/10/04	20:00	27.62	95	22.2		27.6	48	26.2	97	26.1

Appendix M cont., page 3:

8/10/04	20:30	28.12	87	22.3		27.3	43	26.2	94	25.7
8/10/04	21:00	28.62	82	22		27.1	50	26	90	25.6
8/10/04	21:30	29.12	79	22		26.8	48	25.5	86	25.4
8/10/04	22:00	29.62	74	22		26.4	44	25	76	25.3
8/10/04	22:30	30.12	65	22.1		26.1	37	24.5	74	25.2
8/10/04	23:00	30.62	55	22.3		25.7	29	23.9	59	25
8/10/04	23:30	31.12	49	22.5	104	25.3	19	23.5	54	24.9
8/10/04	0:00	31.62	42	22.6	16	24.9	16	23	48	24.7
8/11/04	0:30	32.12	33	22.7	12	24.6	11	22.6	39	24.6
8/11/04	1:00	32.62	25	22.6	12	24	9	22.2	35	24.3
8/11/04	1:30	33.12	21	22.4	10	23.7	8	21.8	23	24.3
8/11/04	2:00	33.62	18	22.2	9	23.4	6	21.8	21	24.1
8/11/04	2:30	34.12	16	21.9	65	24.9	38	22.7	25	24
8/11/04	3:00	34.62	16	21.7	79	25.6	44	22.9	19	24
8/11/04	3:30	35.12	17	21.5	75	25.5	47	22.9	41	24.5
8/11/04	4:00	35.62	19	21.4	75	25.4	46	23	35	23.9
8/11/04	4:30	36.12	18	21.3	74	25.4	45	23	36	23.7
8/11/04	5:00	36.62	19	21.2	77	25.4	41	23	43	23.8
8/11/04	5:30	37.12	15	21.2	80	25.4	33	22.9	46	23.7
8/11/04	6:00	37.62	15	21.2	71	25.1	35	22.8	48	23.5
8/11/04	6:30	38.12	14	21.1	83	24.5	35	22.6	53	23.6
8/11/04	7:00	38.62	34	21.6	86	24.3	25	22.5	53	23.6
8/11/04	7:30	39.12	38	21.8	82	24.3	20	22.3	54	23.6
8/11/04	8:00	39.62	70	21.9	84	24.4	20	21.9	58	23.7
8/11/04	8:30	40.12	76	21.9	79	24.6	22	21.9	57	23.9
8/11/04	9:00	40.62	79	21.9	90	24.8	24	22	58	24.3
8/11/04	9:30	41.12	73	22	83	25.2	31	22.7	61	24.4
8/11/04	10:00	41.62	71	22.1	85	25.5	47	23.8	63	24.8
8/11/04	10:30	42.12	68	22.2	84	25.9	59	24.9	67	25
8/11/04	11:00	42.62	65	22.4	74	25.7	72	25.6	71	25.4
8/11/04	11:30	43.12	60	22.7	64	26	72	26.3	72	25.8
8/11/04	12:00	43.62	57	23.1	51	26	73	26.7	75	26.1
8/11/04	12:30	44.12	53	23.7	45	26.4	76	27.3	80	26.5

Appendix M cont., page 4:

8/11/04	13:00	44.62	54	24.5	43	27	74	27.6	79	26.5
8/11/04	13:30	45.12	58	25.7	49	27.3	73	27.8	91	27.3
8/11/04	14:00	45.62	73	27	50	28.4	84	27.2	98	27.5
8/11/04	14:30	46.12	83	27.4	77	28.8	94	26.7	95	28.2
8/11/04	15:00	46.83	74	26.3		28.8	86	26.3	95	28
8/11/04	15:30	47.33	71	25.6		28.5	101	26.1	100	27.5
8/11/04	16:00	47.83	56	25		27.8	92	25.9	90	26.9
8/11/04	16:30	48.33	49	24.7		27.3	86	25.4	81	26.5
8/11/04	17:00	48.83	45	24.4		27.3	84	25.3	84	26
8/11/04	17:30	49.33	41	24.2		27.1	79	25.3	72	25.8
8/11/04	18:00	49.83	38	24		26.9	74	25.3	74	25.5
8/11/04	18:30	50.33	56	23.6		26.9	57	25.2	68	25.3
8/11/04	19:00	50.83	63	23.8		26.6	62	25	71	25.2
8/11/04	19:30	51.33	80	22.8		26.5	40	24.6	76	25
8/11/04	20:00	51.83	82	22.3		26.2	30	24.5	64	25
8/11/04	20:30	52.33	83	22.1		25.9	29	24.4	65	24.8
8/11/04	21:00	52.83	75	22.1		25.7	32	24.5	61	24.8
8/11/04	21:30	53.33	74	22		25.8	34	24.5	57	24.7
8/11/04	22:00	53.83	71	22		26	31	24.3	45	24.5
8/11/04	22:30	54.33	67	22		25.7	27	23.9	33	24.3
8/11/04	23:00	54.83	60	22		25.1	22	23.7	37	24.2
8/11/04	23:30	55.33	53	22.1		25.1	21	23.3	40	24.2
8/12/04	0:00	55.83	47	22.1		24.8	13	23	37	24.1
8/12/04	0:30	56.33	40	22.2		24.1	11	22.6	33	24
8/12/04	1:00	56.83	33	22.1	19	23.6	9	22.2	30	23.9
8/12/04	1:30	57.33	27	22	10	23.3	9	21.9	28	23.8
8/12/04	2:00	57.83	23	21.8	8	23.1	9	21.6	24	23.6
8/12/04	2:30	58.33	20	21.7	5	22.9	8	21.4	19	23.5
8/12/04	3:00	58.83	17	21.5	2	22.8	6	21.2	24	23.4
8/12/04	3:30	59.33	16	21.3	51	24.2	46	22.1	22	23.4
8/12/04	4:00	59.83	15	21.2	58	24.5	47	22.3	20	23.3
8/12/04	4:30	60.33	14	21.1	46	24.3	54	22.3	13	23.3
8/12/04	5:00	60.83	13	21.1	55	24.2	51	22.3	9	23.2

Appendix M cont., page 5:

8/12/04	5:30	61.33	13	21	58	24.4	49	22.4	21	23.3
8/12/04	6:00	61.83	12	21	59	24.5	46	22.5	28	23.5
8/12/04	6:30	62.33	13	21	52	24.6	42	22.6	24	23.4
8/12/04	7:00	62.83	13	21	53	24.5	47	22.6	35	23.6
8/12/04	7:30	63.33	38	21.7	51	24.6	40	22.4	40	23.7
8/12/04	8:00	63.83	49	22.1	55	24.6	43	22.4	42	23.8
8/12/04	8:30	64.33	71	22.1	56	24.7	29	22.4	49	23.9
8/12/04	9:00	64.83	74	22.1	50	24.8	30	22.4	49	24
8/12/04	9:30	65.33	78	22	53	25.2	33	22.7	58	24.4
8/12/04	10:00	65.83	76	22.2	59	25.5	38	23.5	61	24.8
8/12/04	10:30	66.33	64	22.6	62	25.8	46	24.7	65	25.3
8/12/04	11:00	66.83	75	22.6	58	25.9	59	25.8	62	25.5
8/12/04	11:30	67.33	76	23.1	51	25.9	67	26.6	67	25.6
8/12/04	12:00	67.83	75	23.7	44	26	68	27.5	69	26.1
8/12/04	12:30	68.33	73	24.2	40	26.6	68	28.2		
8/12/04	13:00	68.83	72	25.1	38	26.9	64	28.7		
8/12/04	13:30	69.33	72	26	36	27.9	65	29.1		
8/12/04	14:00	69.83	73	26.9	39	28.5	63	29.2		
8/12/04	14:30	70.33	80	27.8	45	29.6	59	29.8		
8/12/04	15:00	70.83	85	29	67	29.7	66	29.5		
8/12/04	15:30	71.33	93	29.2			76	28.9		
8/12/04	16:00	71.83	99	29.5			89	28.5		
8/12/04	16:30	72.33	90	29.3						
8/12/04	17:00	72.83	84	28.8						
8/12/04	17:30	73.33	81	28.7						
8/12/04	18:00	73.83	79	28.2						
8/12/04	18:30	74.33	75	27.8						
8/12/04	19:00	74.83	63	26.4						
8/12/04	19:30	75.33	81	26.5						
8/12/04	20:00	75.85	79	24.7						
8/12/04	20:30	76.35	89	22.9						
8/12/04	21:00	76.85	91	22.6						
8/12/04	21:30	77.35	91	22.6						

Appendix M cont., page 6:

8/12/04	22:00	77.85	92	22.6					
8/12/04	22:30	78.35	81	22.4					
8/12/04	23:00	78.85	79	22.5					
8/12/04	23:30	79.35	72	22.5					
8/13/04	0:00	79.85	62	22.6					
8/13/04	0:30	80.35	56	22.7					
8/13/04	1:00	80.85	51	22.9					
8/13/04	1:30	81.35	43	23.1					
8/13/04	2:00	81.85	34	23.3					
8/13/04	2:30	82.35	27	23.4					
8/13/04	3:00	82.85	22	23.3					
8/13/04	3:30	83.35	19	23.2					
8/13/04	4:00	83.85	16	23					
8/13/04	4:30	84.35	14	22.9					
8/13/04	5:00	84.85	14	22.8					
8/13/04	5:30	85.35	12	22.8					
8/13/04	6:00	85.85	12	22.7					
8/13/04	6:30	86.35	11	22.7					
8/13/04	7:00	86.85	12	22.6					
8/13/04	7:30	87.35	14	22.7					
8/13/04	8:00	87.85	31	23.1					
8/13/04	8:30	88.35	37	23.3					
8/13/04	9:00	88.85	70	22.9					
8/13/04	9:30	89.35	83	22.8					
8/13/04	10:00	89.85	89	22.7					
8/13/04	10:30	90.35	88	22.8					
8/13/04	11:00	90.85	87	22.8					
8/13/04	11:30	91.35	87	22.9					
8/13/04	12:00	91.85	84	23.1					
8/13/04	12:30	92.35	80	23.5					
8/13/04	13:00	92.85	81	23.9					
8/13/04	13:30	93.35	69	24.2					
8/13/04	14:00	93.85	64	24.5					

Appendix M cont., page 7:

8/13/04	14:30	94.35	59	24.7					
8/13/04	15:00	94.85	56	24.9					
8/13/04	15:30	95.35	55	24.9					
8/13/04	16:00	95.85	58	25					
8/13/04	16:30	96.35	63	24.6					
8/13/04	17:00	96.85	61	24.1					
8/13/04	17:30	97.35	56	24.2					
8/13/04	18:00	97.85	48	24.3					
8/13/04	18:30	98.35	40	24.3					
8/13/04	19:00	98.85	37	24.1					
8/13/04	19:30	99.35	36	23.9					
8/13/04	20:00	99.85	33	23.5					
8/13/04	20:30	100.35	40	23.8					
8/13/04	21:00	100.85	67	23.1					
8/13/04	21:30	101.35	81	22.6					
8/13/04	22:00	101.85	84	22.5					
8/13/04	22:30	102.35	84	22.5					
8/13/04	23:00	102.85	84	22.4					
8/13/04	23:30	103.35	72	22.4					
8/14/04	0:00	103.85	75	22.4					
8/14/04	0:30	104.35	65	22.3					
8/14/04	1:00	104.85	57	22.3					
8/14/04	1:30	105.35	51	22.3					
8/14/04	2:00	105.85	44	22.3					
8/14/04	2:30	106.35	35	22.3					
8/14/04	3:00	106.85	27	22.3					
8/14/04	3:30	107.35	23	22.2					
8/14/04	4:00	107.85	21	22					
8/14/04	4:30	108.35	19	21.8					
8/14/04	5:00	108.85	19	21.5					
8/14/04	5:30	109.35	17	21.4					
8/14/04	6:00	109.85	17	21.1					
8/14/04	6:30	110.35	17	21					

Appendix N: Raw DO Data for 8/18/04 Adulticide						
			Havens Point		Johns Neck Ditch	
			8/17/04-8/22/04		8/17/04-8/22/04	
				(deg C)		(deg C)
Date:	Time:	Total hours:	DO (%):	Temp:	DO (%):	Temp:
8/17/04	17:00	0.00			61	26.3
8/17/04	17:30	0.22			44	26.6
8/17/04	18:00	0.72			56	27.2
8/17/04	18:30	1.22			135	26
8/17/04	19:00	1.72	102	24.7	133	25.7
8/17/04	19:30	2.22	118	24	134	25.4
8/17/04	20:00	2.72	118	24	134	24.9
8/17/04	20:30	3.22	118	23.9		25
8/17/04	21:00	3.72	115	23.7		25
8/17/04	21:30	4.22	114	23.7		24.7
8/17/04	22:00	4.72	114	23.7		24.6
8/17/04	22:30	5.22	115	23.7		24
8/17/04	23:00	5.72	105	23.5		24.4
8/17/04	23:30	6.22	96	23.1		24.3
8/18/04	0:00	6.72	62	22.7	122	23.5
8/18/04	0:30	7.22	44	22.2	76	22.6
8/18/04	1:00	7.72	40	21.9	73	22.2
8/18/04	1:30	8.22	40	21.8	58	21.8
8/18/04	2:00	8.72	45	21.8	52	21.8
8/18/04	2:30	9.22	41	21.5	54	21
8/18/04	3:00	9.72	35	21.1	49	21.2
8/18/04	3:30	10.22	28	21	45	21.2
8/18/04	4:00	10.72	24	20.6	29	21
8/18/04	4:30	11.22	18	20.3	45	20.8
8/18/04	5:00	11.72	14	19.9	35	20.5

Appendix N cont., page 2:

8/18/04	5:30	12.22	11	19.6	25	20.4
8/18/04	6:00	12.72	8	19.2	19	20.2
8/18/04	6:30	13.22	7	18.9	12	20.4
8/18/04	7:00	13.72	5	18.7	7	20.4
8/18/04	7:30	14.22	3	18.7	23	22.6
8/18/04	8:00	14.72	64	21.5	51	23.1
8/18/04	8:30	15.22	92	22	67	23.6
8/18/04	9:00	15.72	103	22.4	88	23.7
8/18/04	9:30	16.22	96	22.6	99	24.1
8/18/04	10:00	16.72	78	23.2	89	24.4
8/18/04	10:30	17.22	77	23.5	105	24.8
8/18/04	11:00	17.72	80	23.7	121	24.9
8/18/04	11:30	18.22	82	23.9	133	25
8/18/04	12:00	18.72	87	24.1	135	25.2
8/18/04	12:30	19.22	81	24.5		25.7
8/18/04	13:00	19.72	91	24.9		25.9
8/18/04	13:30	20.22	93	25.1	132	26.1
8/18/04	14:00	20.72	99	25.4	127	26.4
8/18/04	14:30	21.22	100	25.7	123	26.5
8/18/04	15:00	21.72	96	26.2	115	26.3
8/18/04	15:30	22.22	96	26.5	103	25.6
8/18/04	16:00	22.72	90	26.8	91	25.2
8/18/04	16:30	23.22	86	26.8	80	24.9
8/18/04	17:00	23.72	77	26.3	65	24.6
8/18/04	17:30	24.22	71	25.8	48	24.5
8/18/04	18:00	24.57	63	25.5	33	24.3
8/18/04	18:30	25.07	49	25.1	22	24.3
8/18/04	19:00	25.57	36	24.6	30	24.8
8/18/04	19:30	26.07	85	23.8	84	24.7
8/18/04	20:00	26.57	88	23.7	102	24.7
8/18/04	20:30	27.07	94	23.6	113	24.7
8/18/04	21:00	27.57	94	23.6	116	24.5
8/18/04	21:30	28.07	94	23.6	112	24.5

Appendix N cont., page 3:

8/18/04	22:00	28.57	97	23.7	127	24.6
8/18/04	22:30	29.07	93	23.7		24.8
8/18/04	23:00	29.57	92	23.7		24.7
8/18/04	23:30	30.07	85	23.7		24.7
8/18/04	0:00	30.57	74	23.5		24.4
8/19/04	0:30	31.07	58	23.3	134	24.4
8/19/04	1:00	31.57	38	23	125	24
8/19/04	1:30	32.07	30	22.8	88	23.7
8/19/04	2:00	32.57	29	22.6	75	24
8/19/04	2:30	33.07	34	22.5	60	23.7
8/19/04	3:00	33.57	37	22.4	39	23.2
8/19/04	3:30	34.07	31	22.2	23	22.9
8/19/04	4:00	34.57	25	22.1	23	22.8
8/19/04	4:30	35.07	19	22	23	22.6
8/19/04	5:00	35.57	17	21.8	21	22.4
8/19/04	5:30	36.07	14	21.7	18	22.3
8/19/04	6:00	36.57	10	21.5	14	22.2
8/19/04	6:30	37.07	7	21.4	12	22
8/19/04	7:00	37.57	7	21.3	10	21.9
8/19/04	7:30	38.07	6	21.2	7	21.9
8/19/04	8:00	38.57	6	21.3	4	22
8/19/04	8:30	39.07	54	22.9	22	22.4
8/19/04	9:00	39.57	60	23.3	51	23.1
8/19/04	9:30	40.07	68	23.1	52	23.4
8/19/04	10:00	40.57	72	23.2	61	23.6
8/19/04	10:30	41.07	73	23.2	74	23.7
8/19/04	11:00	41.57	73	23.2	91	23.9
8/19/04	11:30	42.07	70	23.2	113	23.9
8/19/04	12:00	42.57	67	23.1	119	24
8/19/04	12:30	43.07	56	23.2	136	24.1
8/19/04	13:00	43.57	54	23.3	134	24.4
8/19/04	13:30	44.07	48	23.6	107	24.9
8/19/04	14:00	44.57	57	24	94	25.3

Appendix N cont., page 4:

8/19/04	14:30	45.07	63	24.3	70	25.6
8/19/04	15:00	45.57	74	24.6	65	26.5
8/19/04	15:30	46.07	80	25	63	26.4
8/19/04	16:00	46.57	80	25.5	58	26.5
8/19/04	16:30	47.07	82	25.8	56	26.1
8/19/04	17:00	47.57	82	25.9	48	25.7
8/19/04	17:30	48.07	72	25.8	38	25.5
8/19/04	18:00	48.53	61	25.6	35	25.2
8/19/04	18:30	49.03	50	25.2	27	24.8
8/19/04	19:00	49.53	40	24.8	19	24.3
8/19/04	19:30	50.03	28	24.4	11	24.3
8/19/04	20:00	50.53	62	24	23	24.1
8/19/04	20:30	51.03	89	23.8	65	24.5
8/19/04	21:00	51.53	95	23.8	115	24.7
8/19/04	21:30	52.03	89	23.8	114	24.4
8/19/04	22:00	52.53	91	23.8	119	24.7
8/19/04	22:30	53.03	92	23.8		25
8/19/04	23:00	53.53	89	23.7		25.1
8/19/04	23:30	54.03	91	23.7	135	25.1
8/19/04	0:00	54.53	69	23.9	135	25.1
8/20/04	0:30	55.03	55	23.7		24.9
8/20/04	1:00	55.53	44	23.5	105	24.7
8/20/04	1:30	56.03	28	23.2	40	24.1
8/20/04	2:00	56.53	24	23	23	24.1
8/20/04	2:30	57.03	25	22.9	19	23.7
8/20/04	3:00	57.53	28	22.8	17	23.8
8/20/04	3:30	58.03	26	22.7	13	23.8
8/20/04	4:00	58.53	21	22.6	24	23.7
8/20/04	4:30	59.03	16	22.4	15	23.5
8/20/04	5:00	59.53	10	22.3	10	23
8/20/04	5:30	60.03	8	22.1	7	22.8
8/20/04	6:00	60.53	6	22	7	22.6
8/20/04	6:30	61.03	4	21.8	5	22.5

Appendix N cont., page 5:

8/20/04	7:00	61.53	3	21.6	1	22.3
8/20/04	7:30	62.03	3	21.6	0	22.4
8/20/04	8:00	62.53	4	21.6	0	22.6
8/20/04	8:30	63.03	5	21.8	0	23.1
8/20/04	9:00	63.53	14	22.4	33	24.1
8/20/04	9:30	64.03	71	24.2	33	24.4
8/20/04	10:00	64.53	87	24.3	54	25.1
8/20/04	10:30	65.03	82	24.4	76	25.7
8/20/04	11:00	65.53	90	24.4	89	26.2
8/20/04	11:30	66.03	88	24.3	100	26.6
8/20/04	12:00	66.53	95	24.3	117	27.2
8/20/04	12:30	67.03	99	24.3	127	27.6
8/20/04	13:00	67.53	101	24.3		28.4
8/20/04	13:30	68.03	100	25		28.9
8/20/04	14:00	68.53	81	26.4		29.6
8/20/04	14:30	69.03	85	27.8	103	29.6
8/20/04	15:00	69.53	92	28.7	81	29.2
8/20/04	15:30	70.03	97	29.1	80	29.3
8/20/04	16:00	70.85	105	29.2	75	29.3
8/20/04	16:30	71.35	106	29	68	28.6
8/20/04	17:00	71.85	105	28.8	46	27.7
8/20/04	17:30	72.35	99	28.4	35	27.2
8/20/04	18:00	72.85	86	27.9	25	26.7
8/20/04	18:30	73.35	68	27.2	17	26.2
8/20/04	19:00	73.85	54	26.6	14	25.8
8/20/04	19:30	74.35	38	25.9	9	25.3
8/20/04	20:00	74.85	23	25.3	4	25
8/20/04	20:30	75.35	11	24.9	2	24.9
8/20/04	21:00	75.85	61	24.4	49	25.3
8/20/04	21:30	76.35	77	24.5	101	26
8/20/04	22:00	76.85	86	24.6	104	25.9
8/20/04	22:30	77.35	85	24.6	113	26
8/20/04	23:00	77.85	77	24.6	115	25.6

Appendix N cont., page 6:

8/20/04	23:30	78.35	78	24.8	122	25.8
8/21/04	0:00	78.85	72	24.8	108	25.7
8/21/04	0:30	79.35	65	24.7	108	25.7
8/21/04	1:00	79.85	60	24.6	105	25.7
8/21/04	1:30	80.35	43	24.3	98	25.6
8/21/04	2:00	80.85	28	24	91	25.5
8/21/04	2:30	81.35	23	23.6	79	25.3
8/21/04	3:00	81.85	23	23.4	59	25.1
8/21/04	3:30	82.35	23	23.2	51	25
8/21/04	4:00	82.85	19	23	45	24.8
8/21/04	4:30	83.35	15	22.9	29	24.5
8/21/04	5:00	83.85	12	22.8	18	24.4
8/21/04	5:30	84.35	8	22.7	12	24.1
8/21/04	6:00	84.85	3	22.6	8	23.7
8/21/04	6:30	85.35	1	22.4	8	23.5
8/21/04	7:00	85.85	1	22.2	8	23.3
8/21/04	7:30	86.35	2	22.2	8	23.3
8/21/04	8:00	86.85	5	22.2	6	23.4
8/21/04	8:30	87.35	7	22.3	4	23.5
8/21/04	9:00	87.85	6	22.4	6	23.8
8/21/04	9:30	88.35	65	24.6	39	25
8/21/04	10:00	88.85	74	24.6	66	25.5
8/21/04	10:30	89.35	77	24.7	80	26
8/21/04	11:00	89.85	78	24.8	87	26.3
8/21/04	11:30	90.35	82	24.9	97	26.7
8/21/04	12:00	90.85	87	25	107	26.8
8/21/04	12:30	91.35	90	24.9	127	26.9
8/21/04	13:00	91.85	86	25	128	27.1
8/21/04	13:30	92.35	88	25.1	128	27.4
8/21/04	14:00	92.85	86	25.6	131	27.5
8/21/04	14:30	93.48	78	26.2	121	27.4
8/21/04	15:00	93.98	70	26.6	134	27.4
8/21/04	15:30	94.48	61	26.9	79	27.3

Appendix N cont., page 7:

8/21/04	16:00	94.98	64	25.6	110	26.7
8/21/04	16:30	95.48	58	25	96	26.6
8/21/04	17:00	95.98	59	24.9	35	26
8/21/04	17:30	96.48	55	25	18	25.4
8/21/04	18:00	96.98	49	25	20	25.1
8/21/04	18:30	97.48	41	24.8	21	24.8
8/21/04	19:00	97.98	30	24.4	18	24.4
8/21/04	19:30	98.48	20	23.8	14	23.9
8/21/04	20:00	98.98	10	23.2	11	23.5
8/21/04	20:30	99.48	6	22.6	10	23
8/21/04	21:00	99.98	2	22.1	6	22.9
8/21/04	21:30	100.48	0	21.7	4	22.6
8/21/04	22:00	100.98	6	21.8	3	22.3
8/21/04	22:30	101.48	47	23.3	1	22.2
8/21/04	23:00	101.98	43	23.7	7	22.3
8/21/04	23:30	102.48	38	23.9	32	23.1
8/22/04	0:00	102.98	41	23.8	37	23.5
8/22/04	0:30	103.48	39	23.6	41	23.6
8/22/04	1:00	103.98	33	23.7	33	22.4
8/22/04	1:30	104.48	29	23.1	41	22.3
8/22/04	2:00	104.98	24	22.9	36	22.5
8/22/04	2:30	105.48	18	22.3	24	22.7
8/22/04	3:00	105.98	13	21.2	16	22.3
8/22/04	3:30	106.48	13	20.7	11	22.2
8/22/04	4:00	106.98	11	20.3	7	21.8
8/22/04	4:30	107.48	10	19.9	5	21.2
8/22/04	5:00	107.98	6	19.5	1	20.7
8/22/04	5:30	108.48	5	18.9	1	20.2
8/22/04	6:00	108.98	4	18.4	0	20.2
8/22/04	6:30	109.48	3	18.1	0	20.5
8/22/04	7:00	109.98	2	18	0	20.9
8/22/04	7:30	110.48	1	18.1	0	21.6
8/22/04	8:00	110.98	1	18.2	0	22.3

Appendix N cont., page 8:

8/22/04	8:30	111.48	4	18.5	0	22.4
8/22/04	9:00	111.98	3	18.8	0	22.6
8/22/04	9:30	112.48	6	19.2	0	23
8/22/04	10:00	112.98	10	19.7	0	24.4
8/22/04	10:30	113.48	47	21.8	0	24.9
8/22/04	11:00	113.98	81	23.8	0	25.7
8/22/04	11:30	114.48	91	23.9	14	26.2
8/22/04	12:00	114.98	97	24	42	26.4
8/22/04	12:30	115.48	101	24.1	64	26.3
8/22/04	13:00	115.98	111	24.3		
8/22/04	13:30	116.48	109	24.2		

Appendix O: Raw DO Data for 8/25/04 Adulticide

			Johns Neck Channel 8/25/04-8/29/04		Johns Neck Ditch 8/25/04-8/29/04		Havens Point 8/25/04-8/29/04	
Date:	Time:	Total hours:	DO (%):	(deg C) Temp:	DO (%):	(deg C) Temp:	DO (%):	(deg C) Temp:
8/25/04	10:00	0.00			27	21.8		
8/25/04	10:30	0.33			3	21.5		
8/25/04	11:00	0.83			7	22.4		
8/25/04	11:30	1.33			1	24.1	43	22.4
8/25/04	12:00	1.83			0	25.6	41	22.9
8/25/04	12:30	2.33			0	26.6	46	23.8
8/25/04	13:00	2.83			28	28.1	50	24.6
8/25/04	13:30	3.33			32	28.7	52	25.2
8/25/04	14:00	3.83			66	28.9	73	26.5
8/25/04	14:30	4.33			95	28.3	81	26.3
8/25/04	15:00	4.83			113	27.4	96	26
8/25/04	15:30	5.33			123	26.7	95	26
8/25/04	16:00	5.83			118	26.3	98	26
8/25/04	16:30	6.33			122	26.2	103	25.7
8/25/04	17:00	6.83			129	26.2	103	25.4
8/25/04	17:30	7.33			136	26.2	112	25.1
8/25/04	18:00	7.83			134	26	106	24.9
8/25/04	18:30	8.33	128	25.5	130	25.8	95	24.6
8/25/04	19:00	8.83	140	25.9	113	25.6	65	24.2
8/25/04	19:30	9.33	140	25.3	105	25.2	47	23.9
8/25/04	20:00	9.83	132	24.9	134	24.8	42	24
8/25/04	20:30	10.33	132	24.8	119	24.2	48	24.1
8/25/04	21:00	10.83	132	24.8	117	23.9	51	24.1
8/25/04	21:30	11.33	128	24.5	110	23.4	46	23.7

Appendix O cont., page 2

8/25/04	22:00	11.83	124	24.3	88	22.5	35	23.2
8/25/04	22:30	12.33	119	24.2	59	21.8	28	22.6
8/25/04	23:00	12.83	117	23.9	19	21.8	21	22
8/25/04	23:30	13.33	114	23.6	13	21.2	15	21.6
8/25/04	0:00	13.83	115	23.3	3	21.3	12	21.1
8/26/04	0:30	14.33	116	23.3	0	21	9	20.7
8/26/04	1:00	14.83	114	22	0	20.7	7	20.3
8/26/04	1:30	15.33	112	22.2	0	19.8	5	19.8
8/26/04	2:00	15.83	109	22	0	19.6	4	19.4
8/26/04	2:30	16.33	107	22.4	80	21.1	4	19
8/26/04	3:00	16.83	105	22.3	57	20.8	4	18.7
8/26/04	3:30	17.33	104	21	70	21.2	63	19.7
8/26/04	4:00	17.83	103	20.5	82	20.9	64	20.9
8/26/04	4:30	18.33	100	20.2	79	20.7	63	21.1
8/26/04	5:00	18.83	96	21	79	21	67	21.3
8/26/04	5:30	19.33	92	20.5	72	21	66	21.1
8/26/04	6:00	19.83	88	20.3	69	20.8	55	20.8
8/26/04	6:30	20.33	85	20.2	65	20.3	48	20.4
8/26/04	7:00	20.83	82	20.6	66	20.3	49	20.3
8/26/04	7:30	21.33	78	19.9	64	20	36	19.8
8/26/04	8:00	21.83	75	21.9	68	20.1	29	18.6
8/26/04	8:30	22.33	77	22.2	66	20.4	27	18.1
8/26/04	9:00	22.83	80	22.6	58	20.5	27	18.4
8/26/04	9:30	23.33	86	22.9	58	20.6	32	19.5
8/26/04	10:00	23.83	76	23.6	52	20.6	41	20.7
8/26/04	10:30	24.33	84	24.3	43	21	47	21.7
8/26/04	11:00	24.83	86	23.7	36	21.5	51	22.5
8/26/04	11:30	25.33	88	25	32	22.2	53	23.4
8/26/04	12:00	25.83	95	24.9	27	23.4	58	24.3
8/26/04	12:30	26.33	115	26.1	21	24.8	59	25.2
8/26/04	13:00	26.83	124	26.7	20	26.5	64	26
8/26/04	13:30	27.33	138	26.8	16	27.7	67	26.7
8/26/04	14:00	27.83	138	26.9	45	29.3	67	27.3

Appendix O cont., page 3

8/26/04	14:30	28.33	141	26.4	121	28.7	68	27.8
8/26/04	15:00	28.83	144	27.2	109	28.9	84	28.7
8/26/04	15:30	29.33	131	27.3	108	28.9	120	27.7
8/26/04	16:00	29.83		27.3	128	28.2	135	27.1
8/26/04	16:30	30.33	144	27.4	143	27.5	136	26.5
8/26/04	17:00	30.83	141	27.2	143	27.3	167	25.8
8/26/04	17:30	31.33	134	27.3	141	27.3	146	25.5
8/26/04	18:00	31.83	139	27.1	145	27.1	164	25.2
8/26/04	18:30	32.33	142	26.8	152	26.9	165	24.9
8/26/04	19:00	32.83		26.7	140	26.7	152	24.7
8/26/04	19:30	33.43		26.6	150	26.5	132	24.4
8/26/04	20:00	33.93	139	26.1	126	26.3	100	24.2
8/26/04	20:30	34.43	139	25.7	92	25.7	76	23.9
8/26/04	21:00	34.93	134	25.5	77	25.3	57	23.9
8/26/04	21:30	35.43	130	25.5	139	25	52	24
8/26/04	22:00	35.93	125	25.4	127	24.9	62	24.4
8/26/04	22:30	36.43	120	25.4	113	24.5	61	24.4
8/26/04	23:00	36.93	119	25.3	95	24	56	24
8/26/04	23:30	37.43	116	25.1	67	23.5	46	23.5
8/26/04	0:00	37.93	113	25	40	23.1	33	23.1
8/27/04	0:30	38.43	112	24.6	17	22.9	24	22.8
8/27/04	1:00	38.93	109	24.5	12	22.4	17	22.4
8/27/04	1:30	39.43	110	24.2	7	22.2	11	22
8/27/04	2:00	39.93	108	23.5	5	21.9	8	21.7
8/27/04	2:30	40.43	105	22.8	2	21.5	5	21.4
8/27/04	3:00	40.93	101	23.1	0	21.2	4	21.1
8/27/04	3:30	41.43	98	23.5	61	22.4	3	20.8
8/27/04	4:00	41.93	98	23.4	75	23.2	1	20.5
8/27/04	4:30	42.43	96	23	84	23.7	57	21.8
8/27/04	5:00	42.93	93	22.7	72	23.2	73	22.4
8/27/04	5:30	43.43	91	22.2	78	22.8	73	22.5
8/27/04	6:00	43.93	88	22.1	85	22.3	72	22.8
8/27/04	6:30	44.43	86	22.9	80	22.6	63	23

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8/27/04	7:00	44.93	83	23.3	73	22.9	53	23.2
8/27/04	7:30	45.43	82	22.9	70	23.4	42	23.2
8/27/04	8:00	45.93	82	23.1	71	23.3	49	22.8
8/27/04	8:30	46.43	82	23.3	72	23.5	42	22.6
8/27/04	9:00	46.93	83	23.7	72	23.9	38	22
8/27/04	9:30	47.43	84	24.1	68	24	40	22.1
8/27/04	10:00	47.93	92	24.7	66	24.1	38	22.5
8/27/04	10:30	48.43	97	25.1	56	24	49	23.5
8/27/04	11:00	48.93	101	25.6	56	24.3	58	24.3
8/27/04	11:30	49.43	91	25.5	60	25	70	25.6
8/27/04	12:00	49.93	103	26.2	52	25.5	75	26.5
8/27/04	12:30	50.43	114	26.9	48	25.9	76	27.3
8/27/04	13:00	50.93	124	27.6	49	26.5	77	27.8
8/27/04	13:30	51.43	132	28	49	27.1	78	28.4
8/27/04	14:00	51.78	134	28.1	50	28.1	80	29
8/27/04	14:30	52.28	131	28.6	48	28.9	77	29.4
8/27/04	15:00	52.78	135	28.8	41	29.3	72	29.7
8/27/04	15:30	53.28	140	28.6	66	30.1	67	29.6
8/27/04	16:00	53.78	134	28.6	117	29.6	114	28.2
8/27/04	16:30	54.28	136	28.7	124	29.2	117	27.1
8/27/04	17:00	54.78	139	28.7	139	28.7	115	26.4
8/27/04	17:30	55.28	137	28.6	151	28.5	114	26.1
8/27/04	18:00	55.78	155	28.3	139	28.3	110	25.8
8/27/04	18:30	56.28	155	27.9	132	28	108	25.6
8/27/04	19:00	56.78	125	27.8	138	27.7	105	25.5
8/27/04	19:30	57.28	135	27.7	142	27.7	100	25.5
8/27/04	20:00	57.78	135	27.4	143	27.5	85	25.3
8/27/04	20:30	58.28	132	27.4	148	27.4	73	25.1
8/27/04	21:00	58.78	134	27.1	121	27.3	51	24.8
8/27/04	21:30	59.28	122	26.5	70	26.7	35	24.6
8/27/04	22:00	59.78	105	26	54	26.3	35	24.7
8/27/04	22:30	60.28	92	25.8	95	26.1	34	24.8
8/27/04	23:00	60.78	100	25.9	89	25.7	42	25

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8/27/04	23:30	61.28	86	25.5	71	25.1	40	24.8
8/27/04	0:00	61.78	83	25.2	61	25.2	29	24.4
8/28/04	0:30	62.28	85	25	56	24.4	19	24.1
8/28/04	1:00	62.78	87	25	44	24.2	12	23.8
8/28/04	1:30	63.28	80	24.9	36	24.1	8	23.5
8/28/04	2:00	63.78	72	24.8	27	23.9	5	23.1
8/28/04	2:30	64.28	46	24.7	15	23.7	4	22.8
8/28/04	3:00	64.78	55	24.4	10	23.4	3	22.5
8/28/04	3:30	65.28	51	24.3	3	23	3	22.3
8/28/04	4:00	65.78	66	24.3	1	22.9	3	22
8/28/04	4:30	66.28	64	23.8	8	22.9	3	21.8
8/28/04	5:00	66.78	63	24.1	59	23.8	38	23.1
8/28/04	5:30	67.28	67	24.1	56	23.8	42	23.4
8/28/04	6:00	67.78	60	24	52	23.7	46	23.8
8/28/04	6:30	68.28	69	24	56	23.9	33	24.5
8/28/04	7:00	68.78	69	24	60	24	33	24.6
8/28/04	7:30	69.28	67	24.1	66	24	32	24.6
8/28/04	8:00	69.78	70	23.9	67	24	28	24.5
8/28/04	8:30	70.28	76	24.1	69	24.1	26	24.4
8/28/04	9:00	70.78	71	24	67	24.4	22	24.4
8/28/04	9:30	71.28	69	24.4	59	24.6	23	24.1
8/28/04	10:00	71.78	73	24.6	69	24.7	28	24.1
8/28/04	10:30	72.28	81	24.9	71	25	33	24.3
8/28/04	11:00	72.78	79	25.3	73	25.4	38	24.9
8/28/04	11:30	73.28	74	25.7	55	25.5	47	25.6
8/28/04	12:00	73.78	83	26.1	52	25.6	60	26.4
8/28/04	12:30	74.28	77	26.5	38	25.6	73	27.5
8/28/04	13:00	74.78	83	27	37	25.8	80	28.3
8/28/04	13:30	75.28	74	26.8	37	26.3	84	28.9
8/28/04	14:00	75.78	96	27.7	40	26.9	84	29.4
8/28/04	14:30	76.28	107	28.1	37	27.3	80	29.7
8/28/04	15:00	76.78	126	28.5	36	27.8	77	29.9
8/28/04	15:30	77.28	108	28.4	29	28.3	70	30

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8/28/04	16:00	77.78	132	28.2	26	28.5	66	29.8
8/28/04	16:30	78.28	120	28	35	29	65	29.7
8/28/04	17:00	78.78	118	28.1	90	28.7	120	27.8
8/28/04	17:30	79.28	127	27.8	85	28	139	27.1
8/28/04	18:00	79.78	124	27.8	109	27.9	128	26.6
8/28/04	18:30	80.28	121	27.8	112	27.6	115	26.3
8/28/04	19:00	80.78	121	27.4	113	27.5	92	26.1
8/28/04	19:30	81.28	132	27.3	124	27.4	85	25.9
8/28/04	20:00	81.78	139	27.1	132	27.5	76	25.5
8/28/04	20:30	82.28	139	27.6	120	27.4	73	25.4
8/28/04	21:00	82.78	139	27.4	113	27.3	65	25.3
8/28/04	21:30	83.28	137	26.9	103	27	43	25.1
8/28/04	22:00	83.78	132	26.1	55	26.6	28	24.9
8/28/04	22:30	84.28	125	26.8	35	26.2	21	24.8
8/28/04	23:00	84.78	117	26.3	18	25.8	25	24.9
8/28/04	23:30	85.28	100	26.1	11	25.4	29	24.9
8/28/04	0:00	85.78	89	25.6	11	25	37	25
8/29/04	0:30	86.28	83	25.4	18	24.6	32	24.8
8/29/04	1:00	86.78	67	25.3	14	24.4	21	24.5
8/29/04	1:30	87.28	54	25	17	24.1	12	24.2
8/29/04	2:00	87.78	52	24.9	13	24.1	5	23.9
8/29/04	2:30	88.28	56	24.8	9	23.8	0	23.6
8/29/04	3:00	88.78	64	24.9	6	23.5	2	23.2
8/29/04	3:30	89.28	67	24.7	4	23.2	1	22.9
8/29/04	4:00	89.78	68	24.3	2	22.9	0	22.7
8/29/04	4:30	90.28	69	24.1	1	22.6	0	22.4
8/29/04	5:00	90.78	70	23.9	1	22.5	0	22.2
8/29/04	5:30	91.28	72	23.8	37	23.2	0	22
8/29/04	6:00	91.78	73	24.5	27	23.8	27	24
8/29/04	6:30	92.28	68	24.7	14	23.8	30	24.7
8/29/04	7:00	92.78	66	24.5	30	24.2	31	25.1
8/29/04	7:30	93.28	67	24.3	48	24.6	26	25.1
8/29/04	8:00	93.78	70	24.2	59	24.6	22	25

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8/29/04	8:30	94.28	74	24.6	62	24.7	30	24.7
8/29/04	9:00	94.78	78	25	66	25.1	44	24.4
8/29/04	9:30	95.28	80	25.3	71	25.5	42	24.6
8/29/04	10:00	95.78	84	25.7	74	26	26	25
8/29/04	10:30	96.28	89	26	64	26.4	30	25.4
8/29/04	11:00	96.78	92	26.6	66	26.8	37	25.8
8/29/04	11:30	97.28	94	26.8	73	27.3	43	26.2
8/29/04	12:00	97.78	95	26.8	62	27.2	49	26.7

Appendix P: Raw DO Data for 9/1/04 Larvicide

			Havens Point		Timber Point		Johns Neck Channel		Johns Neck Ditch	
			8/31/04-9/5/04		8/31/04-9/5/04		8/31/04-9/5/04		8/31/04-9/5/04	
			(deg C)		(deg C)		(deg C)		(deg C)	
Date:	Time:	Total hours:	DO (%):	Temp:	DO (%):	Temp:	DO (%):	Temp:	DO (%):	Temp:
8/31/04	11:30	0.00			108	26.2				
8/31/04	12:00	0.42			107	26.4			34	26.5
8/31/04	12:30	0.92			107	26.4			24	26.8
8/31/04	13:00	1.42			107	26.6	69	26.9	24	26.8
8/31/04	13:30	1.92			107	27	42	27.3	29	27
8/31/04	14:00	2.42	75	26.7	106	27.5	42	27.3	30	27
8/31/04	14:30	2.92	76	27.3	106	27.6	62	27.4	33	27
8/31/04	15:00	3.42	76	27.9	72	28.1	91	27.7	33	27
8/31/04	15:30	3.92	75	28.4	88	28.2	72	27.7	33	27.1
8/31/04	16:00	4.42	75	28.7	83	28.1	88	27.8	30	27.1
8/31/04	16:30	4.92	72	28.7	89	28.2	69	27.8	25	26.8
8/31/04	17:00	5.42	60	28.4	93	28	100	28.1	20	26.6
8/31/04	17:30	5.92	50	27.9	97	28.2	101	28.1	15	26.1
8/31/04	18:00	6.42	40	27.3	93	28	89	27.6	9	25.6
8/31/04	18:30	6.92	28	26.6	86	27.6	90	27.8	4	25.3
8/31/04	19:00	7.42	86	26	75	27.5	97	27.5	48	26
8/31/04	19:30	7.92	107	25.7	74	27	98	27.4	58	26.2
8/31/04	20:00	8.42	116	25.5	76	27	85	27.1	48	25.8
8/31/04	20:30	8.92	115	25.2	83	26.4	87	27	76	26.7
8/31/04	21:00	9.42	116	24.8	87	25.8	83	26.8	88	26.6
8/31/04	21:30	9.92	112	24.5	96	25.8	88	26.6	90	26.4
8/31/04	22:00	10.42	110	24.2	89	25.8	74	26.4	99	26.4
8/31/04	22:30	10.92	97	24.2	93	25.8	86	26.4	106	26.2
8/31/04	23:00	11.42	98	24.1	91	25.7	82	26	100	26
8/31/04	23:30	11.92	99	23.9	79	25.3	74	25.6	95	25.8

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9/1/04	0:00	12.42	65	23.6	84	25.2	73	25.6	53	25.3
9/1/04	0:30	12.92	47	23.2	92	24.7	68	25.5	36	24.8
9/1/04	1:00	13.42	38	22.8	65	24.1	62	25.3	18	24.1
9/1/04	1:30	13.92	34	22.8	62	25.2	57	25.2	11	23.5
9/1/04	2:00	14.42	38	22.8	46	24.3	52	25	11	23.2
9/1/04	2:30	14.92	40	22.7	27	23.9	50	24.9	14	22.9
9/1/04	3:00	15.42	32	22.3	21	23.4	50	24.6	14	22.6
9/1/04	3:30	15.92	23	21.9	21	23	50	24.5	13	22.2
9/1/04	4:00	16.42	14	21.7	14	22.8	41	24.2	11	22
9/1/04	4:30	16.92	12	21.2	14	22.6	18	23.1	8	21.7
9/1/04	5:00	17.42	10	20.7	18	22.7	11	22.3	5	21.4
9/1/04	5:30	17.92	7	20.4	22	22.5	7	21.7	4	21.2
9/1/04	6:00	18.42	4	20.1	21	22.3	17	22	1	20.9
9/1/04	6:30	18.92	4	20	19	22.2	32	23.4	0	20.6
9/1/04	7:00	19.42	3	19.8	17	22.1	32	23.5	0	20.5
9/1/04	7:30	19.92	4	19.8	14	21.4	27	23.6	1	21.5
9/1/04	8:00	20.42	38	20.8	15	21.8	37	24.1	18	22.7
9/1/04	8:30	20.92	53	22.1	28	22.5	50	24	22	23.4
9/1/04	9:00	21.42	74	22.4	41	23.1	53	24.1	41	24.2
9/1/04	9:30	21.92	76	22.7	51	24	60	24.4	61	24.5
9/1/04	10:00	22.42	93	23	59	24.7	61	24.7	66	24.8
9/1/04	10:30	22.92	102	23.3	63	25.1	74	25	73	25.1
9/1/04	11:00	23.42	104	23.5	70	25.6	69	25.4	80	25.4
9/1/04	11:30	23.92	105	23.6	73	25.7	73	25.7	83	25.8
9/1/04	12:00	24.42	97	24	83	25.9	68	26	85	26.3
9/1/04	12:30	24.92	87	24.7	100	25.6	79	26.5	72	26.7
9/1/04	13:00	25.42	86	25.8	104	26	77	27	61	26.9
9/1/04	13:30	25.92	84	26.5	99	26.5	78	27.4	56	27
9/1/04	14:00	26.42	80	26.9	106	27	81	27.4	57	26.9
9/1/04	14:30	26.92	84	27.3	110	27.4	87	27.2	58	27
9/1/04	15:00	27.42	100	27.8	105	27.9	94	27.2	50	26.8
9/1/04	15:30	27.92		27.6	105	28.4	91	27.4	43	26.6
9/1/04	16:00	28.42		27.5	103	28.2	95	27.5	38	26.4

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9/1/04	16:30	28.92	98	26.2	98	28.3	108	27.6	30	26.1
9/1/04	17:00	29.42	101	24.3	94	28.3	94	27.5	22	25.6
9/1/04	17:30	29.92	101	24.2	101	28.2	109	27.4	14	25.1
9/1/04	18:00	30.42	101	23.5	102	27.9	113	27.2	8	24.4
9/1/04	18:30	30.92	102	22.7	91	27.6	100	26.5	0	23.9
9/1/04	19:00	31.42	103	22.1	87	27.3	96	26.7	0	23.6
9/1/04	19:30	31.92	104	21.8	78	27.1	108	26.6	0	23.6
9/1/04	20:00	32.42	103	23	74	26.2	105	26.5	35	25
9/1/04	20:30	32.92		23.8	65	25.8	87	26.3	37	24.7
9/1/04	21:00	33.42		23.8	87	25.8	87	26.2	48	24.7
9/1/04	21:30	33.92		23.8	90	26.2	90	25.9	99	25.6
9/1/04	22:00	34.42		23.7	93	26.2	95	25.9	97	25.6
9/1/04	22:30	34.92		23.7	95	25.8	89	25.4	101	25
9/1/04	23:00	35.42		23.6	93	26.2	83	24.9	93	25
9/1/04	23:30	35.92		23.5	95	25.5	90	24.9	94	25.3
9/2/04	0:00	36.42		23.3	93	25.3	88	24.7	95	24.8
9/2/04	0:30	36.92		22.8	90	24.5	82	24.6	84	24.3
9/2/04	1:00	37.42		22.1	84	24.2	77	24.4	73	23.1
9/2/04	1:30	37.92	52	21.7	81	23.7	71	24.2	57	23.2
9/2/04	2:00	38.42	57	21.5	75	23.9	65	23.9	59	23
9/2/04	2:30	38.92	53	21.2	70	23.7	69	24.1	57	22.4
9/2/04	3:00	39.42	41	20.7	68	23.5	71	23.9	34	21.9
9/2/04	3:30	39.92	37	20.3	66	23.3	62	23.6	9	21.9
9/2/04	4:00	40.42	29	19.9	63	23.2	68	23.4	4	21.1
9/2/04	4:30	40.92	27	19.6	52	23	61	23.4	3	20.5
9/2/04	5:00	41.42	38	18.5	31	22.8	61	23.5	5	20.2
9/2/04	5:30	41.92	42	17.8	23	22.1	61	23.5	0	20.3
9/2/04	6:00	42.42	48	17.6	21	21.9	54	23.3	0	20.6
9/2/04	6:30	42.92	41	17.6	21	22.4	51	23.4	0	20
9/2/04	7:00	43.42	26	17.8	24	22.7	48	23.4	0	19.7
9/2/04	7:30	43.92	21	17.8	62	20.8	43	22.8	0	19.8
9/2/04	8:00	44.42	27	18.3	76	21.2	48	23	4	21.2
9/2/04	8:30	44.92	25	18.7	87	21.9	50	23.4	18	22.1

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9/2/04	9:00	45.42	82	21.5	88	22.3	59	23.8	32	22.6
9/2/04	9:30	45.92	93	22	93	22.6	63	24	44	23.7
9/2/04	10:00	46.42	98	22.5	94	22.6	66	24.3	62	24.4
9/2/04	10:30	46.92	101	22.8	94	22.8	68	24.6	76	24.7
9/2/04	11:00	47.42	109	23.1	95	23.1	73	25	81	25
9/2/04	11:30	47.92	112	23.5	97	23.7	70	25.4	81	25.3
9/2/04	12:00	48.42	115	23.8	102	24.3	80	25.7	87	25.7
9/2/04	12:30	48.92	102	24	112	24.7	83	25.9	93	26
9/2/04	13:00	49.42	99	24.4	106	25	96	26.1	90	26.4
9/2/04	13:30	49.92	89	25	119	25.2	92	26.4	76	26.6
9/2/04	14:00	50.42	87	25.7	112	25.6	116	26.4	79	26.7
9/2/04	14:30	50.92	87	26.2	116	26	97	26.6	82	26.8
9/2/04	15:00	51.42		26.5	121	26.4	123	26.5	80	26.9
9/2/04	15:30	51.92		26.8	122	26.2	120	26.7	72	26.8
9/2/04	16:00	52.42		26	126	26.5	101	27	56	26.4
9/2/04	16:30	52.92	91	23.6	119	26.5	130	26.8	43	26
9/2/04	17:00	53.42	109	26.9	120	26.6	120	26.8	34	25.6
9/2/04	17:30	53.92		26.3	118	26.5	117	26.6	25	25.1
9/2/04	18:00	54.42		25.4	112	26.4	113	26.4	17	24.4
9/2/04	18:30	54.92	56	24.6	109	26.3	108	26.1	9	23.8
9/2/04	19:00	55.42	43	23.9	96	25.9	86	25.6	0	23.4
9/2/04	19:30	55.92	31	23.3	84	25.4	88	25.4	0	22.9
9/2/04	20:00	56.42	26	22.7	76	25.1	93	25.4	3	23
9/2/04	20:30	56.92	35	22.1	66	24.5	91	25.2	27	22.8
9/2/04	21:00	57.42	63	22.1	61	24.3	88	25.2	22	22.9
9/2/04	21:30	57.92	73	22.1	65	24.3	84	24.9	37	22.9
9/2/04	22:00	58.42	76	22.2	85	24.2	87	24.7	91	24.3
9/2/04	22:30	58.92	72	22.6	90	24	78	24.5	92	24.3
9/2/04	23:00	59.42	64	21.9	81	23.8	78	24	103	23.4
9/2/04	23:30	59.92	64	21.9	84	23.6	81	23.8	93	23.5
9/3/04	0:00	60.42	70	22.1	87	23.5	76	24.1	81	23.5
9/3/04	0:30	60.92	60	22	85	23.3	76	24.4	90	23.5
9/3/04	1:00	61.42	61	21.7	84	23.2	78	23.8	78	23.6

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9/3/04	1:30	61.92	33	21.2	78	23	73	23.7	68	23.2
9/3/04	2:00	62.42	27	20.8	78	22.9	78	23.8	67	23.1
9/3/04	2:30	62.92	25	20.5	75	22.9	64	23	72	23
9/3/04	3:00	63.42	25	20.2	71	22.7	69	22.8	71	22.9
9/3/04	3:30	63.92	21	20	64	22.4	65	22.6	58	22.3
9/3/04	4:00	64.42	17	19.7	56	22.4	64	22.5	50	21.8
9/3/04	4:30	64.92	15	19.4	49	22	60	22.6	28	20.8
9/3/04	5:00	65.42	7	19.3	38	21.8	54	22.6	9	20.2
9/3/04	5:30	65.92	8	19	29	21.3	52	22.4	10	19.5
9/3/04	6:00	66.42	4	18.7	25	21	44	21.9	3	19.4
9/3/04	6:30	66.92	4	18.5	20	20.8	51	22	0	19.3
9/3/04	7:00	67.42	4	18.3	21	20.7	44	22.5	0	19.5
9/3/04	7:30	67.92	4	18.3	32	21.2	46	22.4	0	19.6
9/3/04	8:00	68.42	5	18.4	33	21.5	34	22.1	5	19.5
9/3/04	8:30	68.92	5	18.7	36	21.8	43	22.7	23	22
9/3/04	9:00	69.42	64	21.8	47	22.1	42	22.7	22	22.9
9/3/04	9:30	69.92	77	22.2	81	22.8	50	23.4	49	23.9
9/3/04	10:00	70.42	82	22.6	83	23	51	24	62	24.1
9/3/04	10:30	70.92	85	23	86	23.5	62	25	82	25
9/3/04	11:00	71.42	97	23.4	86	24.1	72	25	79	25.3
9/3/04	11:30	71.92	100	23.7	95	24.6	80	25.2	88	25.5
9/3/04	12:00	72.42	105	23.9	90	25.1	73	25.6	95	25.6
9/3/04	12:30	72.92	108	24.2	100	25.5	77	25.8	90	25.7
9/3/04	13:00	73.42	101	24.6	90	26	85	25.9	93	26
9/3/04	13:30	73.92	97	24.9	90	26.3	90	26.2	94	26.4
9/3/04	14:00	74.42	86	25.7	91	26.8	88	26.4	87	26.9
9/3/04	14:30	74.92	78	26.6	95	26.8	90	26.8	64	27.2
9/3/04	15:00	75.42	79	27.2	97	27.5	88	26.9	65	27.3
9/3/04	15:30	75.92	77	27.4	96	27.8	121	27.2	72	27.3
9/3/04	16:00	76.42	83	27.3	102	27.8		27.5	73	27.1
9/3/04	16:30	76.92	89	27.3	102	27.9		27.4	64	26.9
9/3/04	17:00	77.42		27.2	107	27.8		26.9	55	26.6
9/3/04	17:30	77.92		26.9	100	27.7		26.9	41	25.9

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9/3/04	18:00	78.42		26.4	93	27.4		26.8	28	25.2
9/3/04	18:30	78.92		25.7	93	27.1		26.6	16	24.7
9/3/04	19:00	79.42	40	25	85	26.7		26.2	9	24.2
9/3/04	19:30	79.92	33	24.3	75	26.5		26	2	23.6
9/3/04	20:00	80.42	25	23.7	63	26.3		25.8	0	23.3
9/3/04	20:30	80.92	16	23.1	48	25.9		25.5	0	23
9/3/04	21:00	81.42	8	23	47	25.6		25.4	16	23.7
9/3/04	21:30	81.92	48	23	39	25.3		25.3	49	24.1
9/3/04	22:00	82.42	68	23.2	44	25.2		25.1	52	24.1
9/3/04	22:30	82.92	80	23.1	46	24.4		24.9	68	24.3
9/3/04	23:00	83.42	77	23.5	57	24.5		24.6	74	24.5
9/3/04	23:30	83.92	75	23.6	59	24.8	63	24.4	73	24.5
9/4/04	0:00	84.42	68	23.7	65	25.1	58	24.1	70	24.4
9/4/04	0:30	84.92	62	23.7	70	25	57	23.9	67	24
9/4/04	1:00	85.42	59	23.5	69	25.6	54	23.8	52	23.9
9/4/04	1:30	85.92	52	23.2	67	25.3	59	23.9	53	23.6
9/4/04	2:00	86.42	38	22.7	62	25.1	54	23.4	50	23.2
9/4/04	2:30	86.92	27	21.9	66	23.1	61	24.3	51	22.9
9/4/04	3:00	87.42	24	21.4	51	22.8	48	24.6	49	22.9
9/4/04	3:30	87.92	21	21	45	22.6	50	24.7	47	23.1
9/4/04	4:00	88.42	17	20.7	46	22.5	45	24.3	35	23.2
9/4/04	4:30	88.92	13	20.5	41	22.5	50	24.1	22	22.7
9/4/04	5:00	89.42	10	20.3	43	22.6	51	23.8	11	22.2
9/4/04	5:30	89.92	5	20.2	38	22.4	46	22.8	4	21.3
9/4/04	6:00	90.42	2	19.9	33	22.4	40	23	0	21
9/4/04	6:30	90.92	3	19.7	17	22.4	40	22.9	0	21.1
9/4/04	7:00	91.42	2	19.6	9	22.5	36	23.1	0	21.1
9/4/04	7:30	91.92	2	19.5	11	22.8	37	22.9	0	21.1
9/4/04	8:00	92.42	4	19.7	11	22.6	34	22.9	0	21.3
9/4/04	8:30	92.92	3	19.9	18	23.3	35	22.9	0	21.4
9/4/04	9:00	93.42	6	20.1	22	23.5	32	23.7	1	22.4
9/4/04	9:30	93.92	41	23.4	31	24	38	24.2	0	23.4
9/4/04	10:00	94.42	60	24.6	54	25	38	24.1	0	24.3

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9/4/04	10:30	94.92	69	24.7	70	25.4	45	24.5	25	25.3
9/4/04	11:00	95.42	78	24.7	75	25.4	44	25.1	47	25.1
9/4/04	11:30	95.92	84	24.5	74	25.4	50	25.1	54	25.3
9/4/04	12:00	96.42	86	24.6	80	25.7	48	25.7	57	25.8
9/4/04	12:30	96.92	91	24.6	80	26.1	55	26.2	63	26.3
9/4/04	13:00	97.42	94	24.7	76	26	61	26.5	72	26.6
9/4/04	13:30	97.92	91	24.9	93	26.6	73	26.5	71	27
9/4/04	14:00	98.42	94	25.3	84	26.5	72	27.2	77	27.4
9/4/04	14:30	98.92	79	26	86	26.2	70	27.6	73	27.7
9/4/04	15:00	99.42	72	27	95	26.7	83	27.7	60	27.8
9/4/04	15:30	99.92	67	27.5	93	26.7	79	27.8	60	28
9/4/04	16:00	100.42	66	27.8	91	26.9	71	27.8	59	27.8
9/4/04	16:30	100.92	64	27.8	99	27.1	73	27.8	62	27.7
9/4/04	17:00	101.42	80	27.6	98	27.6	82	27.7	57	27.5
9/4/04	17:30	101.92	75	27.6	103	27.8	94	27.5	39	26.8
9/4/04	18:00	102.42	64	27.2	103	27.6		27.3	23	26.1
9/4/04	18:30	102.92	52	26.7	101	27.5		27.1	15	25.5
9/4/04	19:00	103.42	38	26	98	27.4		26.7	9	24.9
9/4/04	19:30	103.92	26	25.3	85	27.2		26.4	2	24.5
9/4/04	20:00	104.42	16	24.7	57	26.8		26.2	0	24
9/4/04	20:30	104.92	8	24.1	48	26.6		25.9	0	23.7
9/4/04	21:00	105.42	5	23.6	34	26.3	122	25.6	0	23.5
9/4/04	21:30	105.92	4	23.2	28	26	55	25.2	0	23.2
9/4/04	22:00	106.42	1	22.7	29	25.9	52	25.1	0	23.1
9/4/04	22:30	106.92	14	22.9	28	25.7	52	24.8	8	23.6
9/4/04	23:00	107.42	57	23.7	23	25.2	56	24.5	16	23.6
9/4/04	23:30	107.92	70	24.3	55	25.8	56	24.5	9	23.5
9/5/04	0:00	108.42	67	24.4	47	25.3	56	24.7	39	23.9
9/5/04	0:30	108.92	67	24.1	57	24.9	62	25.4	51	24.4
9/5/04	1:00	109.42	60	24	82	25.2	55	24.6	52	24.4
9/5/04	1:30	109.92	60	23.6	83	25	58	24.7	49	24.2
9/5/04	2:00	110.42	52	23.4	82	24.7	61	24.8	40	24.1
9/5/04	2:30	110.92	58	23.2	76	24.5	55	24.9	27	23.5

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9/5/04	3:00	111.42	41	22.9	77	24.2	49	24	6	22.5
9/5/04	3:30	111.92	31	22	72	23.9	33	23.8	2	21.6
9/5/04	4:00	112.42	33	21.2	65	23.5	48	24	0	21.3
9/5/04	4:30	112.92	31	20.7	62	23.4	47	23.6	0	21.7
9/5/04	5:00	113.42	26	20.5	58	23	35	23.3	0	21.9
9/5/04	5:30	113.92	21	20.2	49	22.5	38	23.4	0	21.8
9/5/04	6:00	114.42	16	19.9	43	22.2	48	23	0	21.3
9/5/04	6:30	114.92	13	19.6	47	21.9	35	22.8	0	21.2
9/5/04	7:00	115.42	10	19.4	34	21.4	40	22.5	0	21
9/5/04	7:30	115.92	7	19.3	16	20.8	35	22.4	0	20.6
9/5/04	8:00	116.42	7	19.2	28	20.7	35	22.5	0	20.5
9/5/04	8:30	116.92	9	19.2	34	20.7	36	22.5	0	20.6
9/5/04	9:00	117.42	8	19.4	44	21	34	22.6	0	20.7
9/5/04	9:30	117.92	50	21.3	41	21.1	41	22.4	0	20.8
9/5/04	10:00	118.42	62	21.8	52	21.5	43	22.5	0	20.7
9/5/04	10:30	118.92	67	21.7	74	22.9	43	22.8	3	21.4
9/5/04	11:00	119.42	73	21.8	79	23.4	42	22.7	35	22.3
9/5/04	11:30	119.92	77	21.9	88	23.7	52	22.7	54	23.2
9/5/04	12:00	120.42	78	22.2	90	23.8	62	23	69	23.4
9/5/04	12:30	120.92	85	22.3	87	23.8	59	23.3	68	23.4
9/5/04	13:00	121.42	103	22.2	89	23.8	66	23.4	69	23.4
9/5/04	13:30	121.92	108	22.6	90	23.7	65	23.6	79	23.5
9/5/04	14:00	122.42	108	22.8	94	23.8	69	23.9	73	23.7
9/5/04	14:30	122.92	104	22.9	93	23.7	72	24.1	79	23.9
9/5/04	15:00	123.42	97	23			76	24	87	24
9/5/04	15:30	123.92	86	23			77	24.3	84	24.1
9/5/04	16:00	124.42	83	23.1			83	24.4	81	23.8
9/5/04	16:30	124.92	83	23.1			79	24.2		
9/5/04	17:00	125.42	84	22.8						
9/5/04	17:30	125.92	87	22.6						
9/5/04	18:00	126.42	91	22.3						
9/5/04	18:30	126.92	77	22						

Appendix Q: YSI Dates & Measurements

Date:	Time:	Site:	Location:	Tide:	YSI (deg. C) Temp:	YSI (ppt) Salinity:	YSI (%) DO:	YSI (mg/L) DO:
8/2/04	15:00	Timber Point	original ditch site		30.1	29.7	94	
8/2/04	16:30	Johns Neck	upstream of cages		27.6	21.3	32	2.7
8/2/04	16:30	Johns Neck	at cages		27.6	21.9	22	1.8
8/2/04	17:45	Havens Point	in channel	very low	28.4	20.0	57	4.1
8/2/04	18:10	Havens Point	open water	low tide	27.8	26.7	155	10.5
8/2/04	20:00	Flax Pond	at cages		25.6		44	2.6
8/2/04	20:30	Flax Pond	at cages					
8/3/04	8:30	Timber Point	original ditch site	low tide	25.0	23.5	23	1.7
8/3/04	14:00	Johns Neck	at cages	high tide				
8/3/04	18:30	Flax Pond	at cages	high tide	27.6	26.6	111	7.4
8/4/04	14:00	Timber Point	lower creek		28.7	18.0	125	8.5
8/4/04	15:30	Timber Point	upper creek		30.2	21.0	119	7.8
8/4/04	15:15	Timber Point	original ditch site		30.2	20.0	80	5.3
8/4/04	16:30	Johns Neck	in ditch nearer mouth	very high	30.3	23.5	41	2.7
8/4/04	19:30	Flax Pond	at cages		27.9	27.0	89	6.0
8/6/04	14:15	Timber Point	original ditch site	high tide	24.3	22.6	138	10.1
8/6/04	15:00	Timber Point	lower creek	high tide	24.4	22.4	140	10.3
8/6/04	15:15	Timber Point	upper creek	high tide	24.4	22.7	130	9.6
8/6/04	16:00	Johns Neck	at cages		25.0	24.7	87	6.2
8/9/04	17:30	Johns Neck	at cages	medium	27.6	25.0	166	11.4
8/9/04	18:30	Havens Point	at cages		26.6	27.0	108	7.4
8/10/04	8:15	Timber Point	lower creek		23.2	23.7	96	7.2
8/10/04	10:45	Johns Neck	in ditch		23.9	21.0	17	1.3
8/10/04	16:30	Flax Pond	at cages	low tide	29.9	28.0	113	7.4
8/11/04	11:00	Timber Point	lower creek	medium	25.7	24.7	97	6.8
8/11/04	12:00	Johns Neck	in ditch		26.7	21.6	66	4.6

Appendix Q cont'd								
					YSI (deg. C)	YSI (ppt)	YSI (%)	YSI (mg/L)
Date:	Time:	Site:	Location:	Tide:	Temp:	Salinity:	DO:	DO:
8/11/04	15:00	Flax Pond	at cages	low tide	26.2	27.8	117	8.2
8/12/04	19:30	Flax Pond	at cages					
8/13/04	13:00	Flax Pond	at cages					
8/14/04		Timber Point	lower creek		24.6	23.0	113	8.4
8/14/04		Flax Pond	at cages		24.3	26.5	95	6.8
8/17/04	17:00	Johns Neck	in ditch		26.4	19.0	66	4.8
8/17/04	19:00	Havens Point	in ditch		24.6	27.0	134	9.5
8/19/04	17:45	Havens Point	in ditch		25.8	24.2	85	6.0
8/19/04	19:00	Johns Neck	in ditch		24.3	20.3	30	2.2
9/5/04	14:30	Timber Point	lower creek	high tide	23.9	25.8	98	7.4