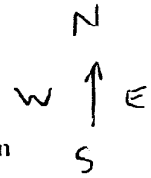
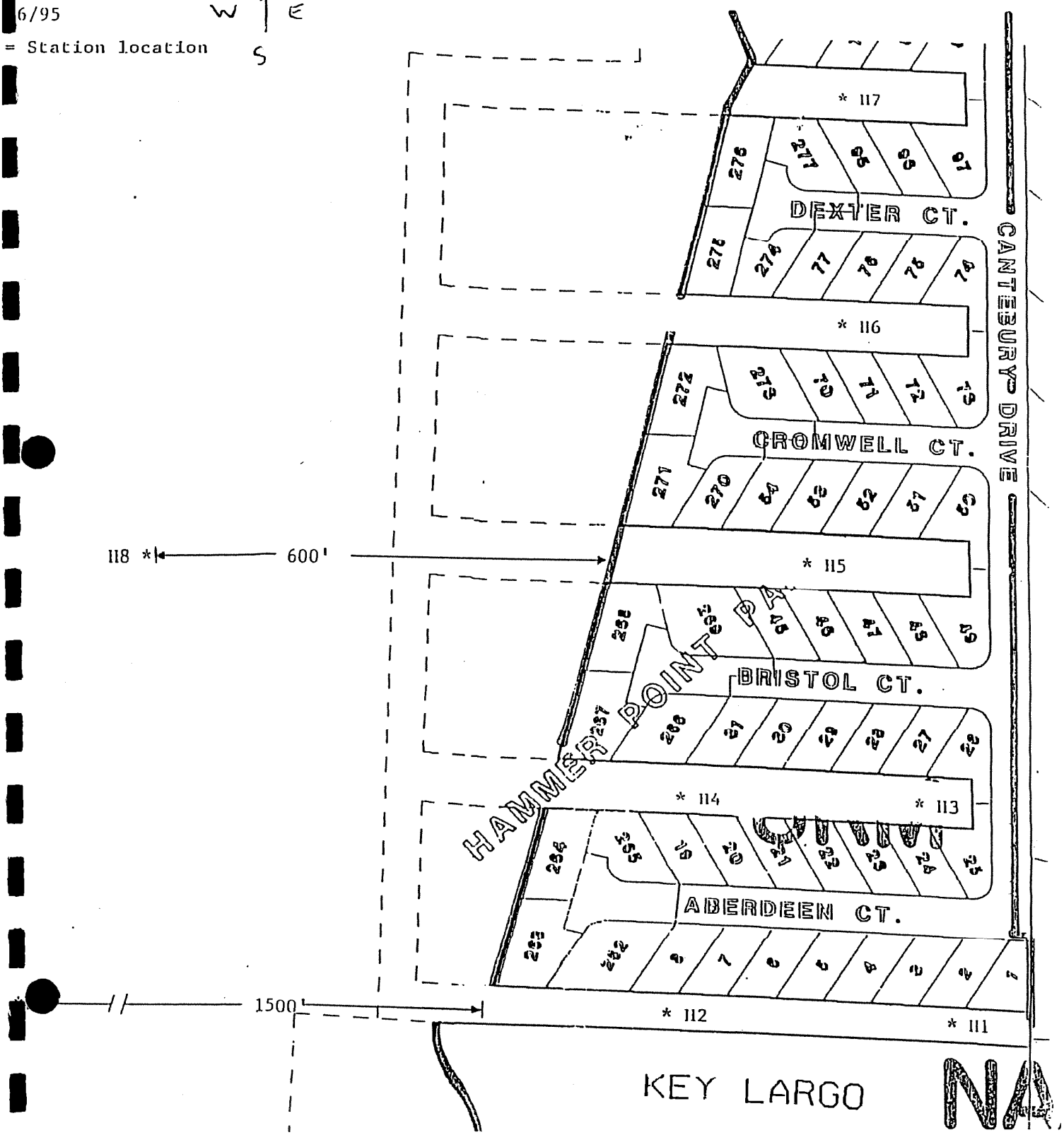
mmer Point
6/95
= Station location

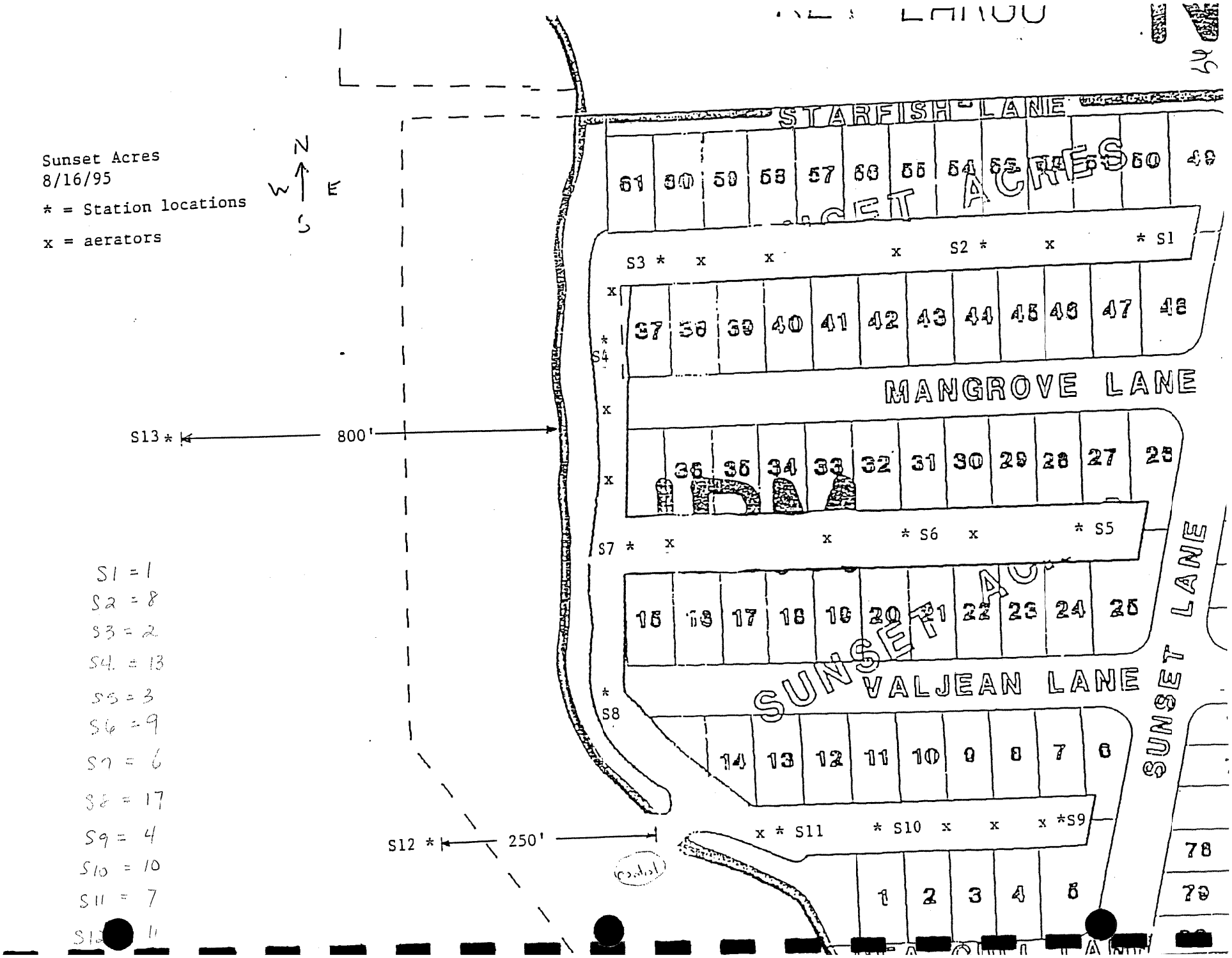




Sunset Acres
8/16/95

* = Station locations

x = aerators



S1 = 1
S2 = 8
S3 = 2
S4 = 13
S5 = 3
S6 = 9
S7 = 6
S8 = 17
S9 = 4
S10 = 10
S11 = 7
S12 = 11

Water Quality Monitoring Plan - Sunset Acres - Tavernier - Fl.

DATE: 4-Aug-98

STATION	S1	S2	S3	S4	S5	S13	H3	H5	H6	H7	H8
						BAY 800'	(H3)	(H5)	(H6)		BAY 600'
DEPTH	7	7	7	7	7	7	6	6	6	6	6
Time of Day	11:45	12:05	12:20	12:35	12:50	1316	1410	1428	1445	1505	1340
Test Depth	1	1	1	1	1	1	1	1	1	1	1
Water Temp (C)	31	31.5	31.5	31.5	31.5	31.5	31.6	31.5	31.5	31.5	31.5
DO mg/l	2.3	3.2	2.1	2.7	3.3	5.3	3.2	4.2	4.2	4	5.9
pH											
Turbid (NTU)											
Salinity %	39	39	39	39	39	39	39	39	39	39	39
Test Depth	3	3	3	3	3	3	3	3	3	6	6
Water Temp	31.5	31.5	31.5	31	31.5	31	31.5	31.5	31.5	31.5	31
DO mg/l	2.4	3.3	2.3	2.7	3.3	5.1	3.2	4.2	4.2	4.1	5.9
pH											
Turbid (NTU)											
Salinity %	39	39	39	39	39	39	39	39	39	39	39
Test Depth	6	6	6	6	6	6	5	4	4	4	4
Water Temp	31.5	31.5	31.5	31.5	31.5	31	31.5	31.5	31.5	31.5	31
DO mg/l	2.6	3.8	2.4	3	4.2	5.9	2.8	4.2	4	4.2	5.9
pH											
Turbid (NTU)											
Salinity %	39	39	39	39	39	39	39	39	39	39	39
.											
.											
OBSEVATIONS:		AIR TEMP	31 C.	WATER CLARITY:					R. Ruiz		
.		CLOUD COVER:20%							E. Sorondo		
.		WIND: 8-10		WEATHER: CLEAR/FAIR							
.											

Water Quality Monitoring Plan - Sunset Acres - Tavernier - Fl.

DATE: Aug 30/98

STATION	S1	S2	S3	S4	S5	S13	H3	H5	H6	H7	H8
						800' Bay					600' Bay
DEPTH	7	7	7	7	7	6	6	5	5	5	5
Time of Day	1140	1155	1210	1225	1240	1255	1445	1425	1405	1345	1325
Test depth	1	1	1	1	1	1	1	1	1	1	1
Water Temp (C)	31	31.5	31.5	31.5	31.5	31	31.5	31.5	31.5	31.5	31.5
DO mg/l	3.6	4	3.6	3.2	3.7	5.2	4.2	2.5	3.8	3.9	5.4
pH	7	7	7	7	7	7	7	7	7	7	7
Turbid (NTU)											
Salinity % (ppt)	36.3	36.3	36.3	36.3	36.3	36.3	36.3	36.3	36.3	36.3	36.3
Test depth	3	3	3	3	3	3			3	3	3
Water Temp	31.5	31.5	31.5	31.5	31.5	31.5			31.5	31.5	31.5
DO mg/l	3.9	3.8	4	3.7	4.2	5.4	nr	nr	3.8	3.9	5.5
pH	7	7	7	7	7	7	nr	nr	7	7	7
Turbid (NTU)											
Salinity %	36.3	36.3	36.3	36.3	36.3	36.3			36.3	36.3	36.3
Test Depth	6	6	6	6	6	6	5	4	4	4	4
Water Temp	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5
DO mg/l	4.4	4.8	4.3	4	4.5	5.6	3.7	2.4	4	4.2	5.5
pH	7	7	7	7	7	7	7	7	7	7	7
Turbid (NTU)											
Salinity %	36.3	36.3	36.3	36.3	36.3	36.3	36.3	36.3	36.3	36.3	36.3

OBSERVATIONS:

AIR TEMP : 29.0 C.
CLOUD COVER: 40%
WIND: 10 to 15 mph

WATER C : CLEAR
WEATHER: FAIR
H5 BOTTOM COLOR: BROWN

R. Ruiz
E. Sorondo

Water Quality Monitoring Plan - Sunset Acres - Tavernier - Fl.

DATE: OCT 5/98

STATION	S1	S2	S3	S4	S5	S13	H8	H7	H6	H5	H3	NOTE
DEPTH	7'	7'	7'	7'	7'	7'	6'	7'	7'	7	7	
Time Sampled	9:00	9:20	9:30	9:45	9:55	10:10	10:25	10:40	11:10	11:30	11:50	
@ 1 ft. Surf.												
WATER Temp	31	31	31	31	31	30.5	30	30.5	30.5	31	31	
DO mg/l	3.6	3.7	3.6	3.3	3.5	3.2	2.2	2.4	3.1	3.2	3.4	
pH	7.6	7.5	7.5	7.4	7.3	7.5	7.6	7.3	7.3	7.5	7.2	
Turbidity (NTU)	4.35	3.47	0.95	1.84	4.71	0.96	0.52	1.05	0.75	1.01	0.53	
Salinity gm/l	32.5	33	32.5	32.5	33	33.7	33	33	32.5	32.5	32.5	
@ 3 ft. Surf.												
[illegible]	31	31	31	31	31	30.5	30	30.5	30.5	31	31	
DO mg/l	3.2	3.2	3.4	3.4	3.4	2.8	1.5	2.2	2.4	2.6	2.8	
pH	7.4	7.4	7.6	7.5	7.2	7.3	7.5	7.6	7.7	7.5	7.6	
[illegible]	1.31	0.79	0.75	0.83	1.04	0.99	0.41	0.6	0.55	0.56	0.51	
Salinity gm/l	32.5	32.5	33	33	32.5	29.5	30	32.5	32.5	33	32.5	
@ 6 ft. Surf.												
[illegible]	31	31	31	31	30.5	30.5	30	30.5	30.5	31	31	
DO mg/l	3.2	3.2	3.3	3.6	3.5	2.7	1.5	2.2	2.2	3	3.3	
pH	7.4	7.3	7.4	7.2	7.3	7.4	7.3	7.5	7.4	7.1	7.7	
[illegible]	1.24	0.75	0.53	1.6	0.89	1.18	0.73	0.75	1.2	0.53	1.09	
Salinity gm/l	32.5	32.5	33	32.5	33	33	32.5	32.5	32.6	33	33	

Air Temp	WIND	CLOUD	WATER	TIDE	WEATHER	SAMPLED	TESTED		SAMPLER
28 C.	SE 2-5	5%	CLEAR	OUT	FAIR	10/5/98	10/7/98		E. Sorondo
									R.Ruiz

Water Quality Monitoring Plan - Sunset Acres - Tavernier - Fl.

DATE: NOV. 1, 1998

STATION	S1	S2	S3	S4	S5	S13	H8	H7	H6	H5	H3	NOTE
[illegible]	7'	7'	7'	7'	7'	6	6'	7'	7'	6	7	
Time Sampled	8:30	9:45	10:15	11:15	11:45	12:15	12:35	13:45	13:35	13:15	12:55	
@ 1 ft. Surf.												
[illegible]	28	26.5	27	27.5	27.5	25	25	26.5	26.5	26.5	26.5	sampled x3
DO mg/l	2.4	3.5	3.5	3.4	6.4	5.2	5.8	4	2.6	4.5	2.8	DO < 3.0
pH	7.5	7.5	7.6	7.6	7.6	7.6	7.7	7.7	7.7	7.7	7.7	
[illegible]	1.44	0.89	1.3	0.82	0.78	1.1	1.25	0.68	2.93	1.89	2.15	
Salinity mg/l	31.5	31.5	32	33.1	33.8	33.1	33.1	31.8	31.8	31.8	31.5	
@ 3 ft. Surf.												
[illegible]	28	27	27	27.5	27.5	25	25	26.5	25.5	26	26	sampled x3
DO mg/l	2.5	2.8	2.8	3.2	6.3	5.8	5.8	3.4	2.5	3	2.5	DO < 3.0
pH	7.5	7.6	7.6	7.6	7.6	7.5	7.8	7.7	7.7	7.7	7.7	
[illegible]	1.1	0.63	0.65	0.44	0.56	1	0.89	1.12	2.68	2.37	1.83	
Salinity mg/l	31.5	32	32	33.1	33.8	33.1	32	31.5	32	32	32	
@ 6 ft. Surf.												
[illegible]	28	28	28	28.5	28	25	25	26.5	25.5	25.5	25	sampled 3x
DO mg/l	2.5	2.7	2.5	2.3	2.5	5.9	6.4	3.8	3.5	3.7	3.7	DO < 3.0
pH	7.5	7.5	7.5	7.6	7.5	7.8	7.7	7.7	7.7	7.7	7.8	
[illegible]	1.57	0.89	0.65	1.77	0.78	0.69	2.73	0.94	1.98	2.31	3.52	
Salinity mg/l	31.5	31.5	32	33.1	32	33.1	31.8	31.8	31.8	31.5	31.5	

Air Temp	WIND	CLOUD	WATER	TIDE	WEATHER	SKY	SAMPLED	TESTED	SAMPLER
27C	ESE5	0%	CLEAR	IN	FAIR	CLEAR	10/31/98	11/1/98	E.Sorondo

Tech. Note: YSI meter calibrated, new membrane. H3, H5, H6, multiple floating material from bottom seen on surface.

60

Water Quality Monitoring Plan - Sunset Acres - Tavernier - Fl.

DATE: DEC 5/98

STATION	S1	S2	S3	S4	S5	S13	H8	H7	H6	H5	H3	NOTE
	5-Dec	5-Dec	5-Dec	5-Dec	5-Dec	6-Dec	6-Dec	6-Dec	6-Dec	6-Dec	6-Dec	
	6'	6'	6'	6'	6'	5'	5'	6'	6'	5'	6'	
Time Sampled	9:30	10:00	10:45	11:15	11:50	7:55	8:30	11:15	10:55	10:40	10:15	
@ 1 ft. Surf.												
[redacted]	26.5	25.5	25	25.5	25.5	23.5	24	24	24.5	24	24	
DO mg/l	4	5	4.6	4.5	5.2	5.1	5.4	4.9	4.5	4.5	4.5	
pH	7.7	7.8	7.8	7.8	7.7	7.8	7.9	7.9	7.9	7.9	7.9	
[redacted]	7.68	3.05	2.2	1.84	3.16	1.29	1.39	1.95	2.73	1.79	1.53	
Salinity mg/l	28.5	28.5	28.5	28.5	27.9	28	28	28.5	28.5	29.8	28.5	
@ 3 ft. Surf.												
[redacted]	26.5	25	25	25	25.5	23.5	24	24.5	24.5	24.5	24	
DO mg/l	4.4	4.5	3.8	4.5	4.6	4.2	5.5	4.5	4.5	3.4	4.4	
pH	7.7	7.8	7.8	7.8	7.8	7.8	7.9	7.9	7.9	7.8	7.8	
[redacted]	4	2.96	2.45	2.26	2.06	1.99	1.37	1.16	3.84	1.99	1.25	
Salinity mg/l	28.5	28	28.5	28.5	27.9	28.5	27.2	28.5	28.5	28.5	28	
1 ft Fr. Bottom												
[redacted]	26.5	26	26	26.5	27	24	24	25	24.5	26	25	
DO mg/l	3.4	3.7	1.5	2	2.8	3.8	4.2	4	3	2.9	4.4	
pH	7.6	7.7	7.8	7.5	7.6	7.9	7.9	7.9	7.9	7.8	7.8	
[redacted]	2.32	3.05	2.96	3.42	2.81	1.96	2.13	2.17	3.25	2.22	1.64	
Salinity mg/l	28.5	29.1	29	29.8	29.1	28.5	27.2	28.5	28.5	31.1	28.5	

Air Temp	WIND	CLOUD	WATER	TIDE	WEATHER	SKY	SAMPLED	TESTED	SAMPLER
29	E12-15	20%	CLEAR	OUT	FAIR	SUNNY	125,6	125,6	E.Sorondo

Tech. Note: YSI 57 calibrated, Salinity 28.5%, Air Temp 29C., pH Meter calibrated

Water Quality Monitoring Plan - Sunset Acres - Tavernier - Fl.

DATE: Jan 9/99

STATION	S1	S2	S3	S4	S5	S13	H8	H7	H6	H5	H3	NOTE
	9-Jan	9-Jan	9-Jan	9-Jan	9-Jan	9-Jan	9-Jan	9-Jan	9-Jan	9-Jan	9-Jan	
[illegible]	6'	6'	6'	6'	6'	5'	5'	6'	6'	5'	6'	
Time Sampled	9:50	10:20	11:45	14:20	10:50	12:15	12:35	14:00	13:40	13:15	12:55	
@ 1 ft. Surf.												
[illegible]	22	21	23	22.5	19	19	19	20	20	20	19.5	
DO mg/l	4.5	5.5	4.3	3.9	7.5	7.9	8	7.8	7.9	7.5	6.5	
pH	7.6	7.8	7.7	7.7	7.9	8	8	8	8	7.9	7.9	
[illegible]	3.22	6.98	1.43	2.26	3.53	6.68	6.54	3.65	4.54	4.53	7.29	
Salinity mg/l	28.5	28.5	30.5	32.4	30.5	29.8	28.5	28.5	28.5	29.8	28.5	
Sp.Gr	1.022	1.022	1.0225	1.024	1.0225	1.022	1.021	1.021	1.021	1.022	1.021	
@ 3 ft. Surf.												
[illegible]	22	21	22.8	22	19	18	18.5	18	19.5	19	19	
DO mg/l	3.5	4.5	3.5	3.3	6.9	8.4	7.6	6.8	7.4	8	7	
pH	7.7	7.7	7.6	7.6	7.8	8.68	8	7.9	7.9	7.9	7.9	
[illegible]	2.59	3.6	1.22	2.01	4.32	2.98	5.39	3.59	5.32	4.69	5.22	
Salinity mg/l	28.5	28.5	32.4	31.1	28.5	29.8	28.5	29.8	29.8	32.4	29.8	
Sp.Gr	1.022	1.022	1.024	1.023	1.021	1.022	1.021	1.022	1.022	1.024	1.022	
1 ft Fr. Bottom												
[illegible]	22	21.5	22.8	22	20	18	18	18	19	19	19	
DO mg/l	3	3.6	3.5	3.2	3.2	8.6	7.4	8	6.6	8	6.5	
pH	7.7	7.7	7.6	7.6	7.8	7.9	8	8	8	8	7.9	
[illegible]	2.96	3.38	1.59	2.4	2.81	7.29	6.35	5.27	4.88	9.36	6.73	
Salinity mg/l	28.5	30.5	32.4	28.8	28.5	28.5	28.5	29.8	29.8	32.4	31.1	
Sp.Gr	1.022	1.0225	1.024	1.022	1.021	1.021	1.021	1.022	1.022	1.024	1.023	
	AIR TEMP	WIND	CLOUD	WATER	TIDE	WEATHER	SKY	SAMPLED	TESTED	SAMPLER		
	27	SS-8	10%	CLEAR	OUT	FAIR	SUNNY	1/9/99	1/9/99	E.S.		
Tech. Note:	YSI-57 Calibrated & new membrane, pH meter calibrated. Air Temp 27 C @ 8:45								Salinity 30.5			

Spec Grav

Water Quality Monitoring Plan - Sunset Acres - Tavernier - Fl.

DATE: Feb 6/99

STATION	S1	S2	S3	S4	S5	S13	H8	H7	H6	H5	H3	NOTE
	6-Feb	6-Feb	6-Feb	6-Feb	6-Feb	6-Feb	6-Feb	6-Feb	6-Feb	6-Feb	6-Feb	
[illegible]	6'	6'	6'	6'	6'	5'	5'	6'	6'	5'	6'	
Time Sampled	10:40	11:15	12:30	12:45	11:50	13:05	13:35	14:45	14:30	14:05	13:50	
@ 1 ft. Surf.												
[illegible]	25	24.5	25	25	24.5	24	24	24	25	25	24.5	
DO mg/l	4.4	5.5	4.8	4.5	5.6	6.5	6.8	5.6	6.2	5.8	5.8	
pH	8	8	8.1	8	8.1	8.1	8.1	8	8.1	8	8.1	
[illegible]	4.87	3.83	2.36	1.59	a.08	1.86	1.88	1.43	2.63	2.7	2.28	
Salinity mg/l	25.9	29.8	28.5	28.5	29.8	33.7	31.1	29.8	29.8	32.4	29.8	
Sp.Gr	1.019	1.022	1.021	1.021	1.022	1.025	1.023	1.022	1.022	1.024	1.022	
@ 3 ft. Surf.												
[illegible]	25	24.5	25	25	24.5	24	24	24	24.8	25	24.5	
DO mg/l	4.1	5	4.5	4.4	5.5	6.5	6.8	5.4	6	5.8	5.4	
pH	8	8.1	8	8	8.1	8	8.1	8	7.9	8	8	
[illegible]	5.2	5.42	0.9	3.9	0.79	3.41	1.45	1.51	1.54	2.21	3.4	
Salinity mg/l	32.4	29.8	29.8	28.5	29.8	32.4	31.1	29.8	32.4	31.1	29.8	
Sp.Gr	1.024	1.022	1.022	1.021	1.022	1.024	1.023	1.022	1.024	1.023	1.022	
1 ft Fr. Bottom												
[illegible]	24.5	24.5	25	24.5	24.5	24	24	24	24.8	25	24.5	
DO mg/l	3.9	5.1	5.2	4.3	6	6.3	6.6	4.6	6.2	6	5.8	
pH	8	8.1	8	8	8.1	8.1	8.1	8	8	8	8.1	
[illegible]	5.36	6.03	1.99	1.88	1.22	2.87	0.98	1.34	2.9	3	2.32	
Salinity mg/l	29.8	29.8	29.8	28.5	29.8	32.4	29.8	29.8	29.8	32.4	29.8	
Sp.Gr	1.022	1.022	1.022	1.021	1.022	1.024	1.022	1.022	1.022	1.024	1.022	
	Air Temp	WIND	CLOUD	WATER	TIDE	WEATHER	SKY	SAMPLED	TESTED	SAMPLER		
	27	E10-15	10%	CLEAR	OUT	FAIR	SUNNY	2/6/99	2/6/99	ES/FP		
Tech. Note:	YSI-57 Calibrated & new membrane, pH meter calibrated. Air Temp						27C @10:45		Salinity 29.8 for Cal.			

Water Quality Monitoring Plan - Sunset Acres - Tavernier - Fl.

DATE: Mar 11/99

STATION	S1	S2	S3	S4	S5	S13	H8	H7	H6	H5	H3	NOTE
	11-Mar	11-Mar	11-Mar	11-Mar	11-Mar	11-Mar	11-Mar	11-Mar	11-Mar	11-Mar	11-Mar	
[redacted]	6'	6'	6'	6'	6'	5'	5'	6'	6'	5'	6'	
Time Sampled	10:20	10:45	11:10	11:35	11:50	12:50	13:10	14:40	14:20	13:55	13:35	
@ 1 ft. Surf.												
[redacted]	22	22	21.5	22	22.5	22.5	21	23	21.5	21.5	21.5	
DO mg/l	4.6	6	4.4	5.6	5.8	6.3	6	5.8	6.2	5.9	6.2	
pH	7.5	7.5	7.6	7.6	7.5	7.8	7.8	7.8	7.8	7.9	7.8	
[redacted]	0.9	1.73	3.09	2.18	0.79	1.86	1.16	3.69	2.63	1.9	2.92	
Salinity mg/l	29.8	28.5	28.5	28.5	29.8	29.8	29.8	28.5	28.5	29.8	28.5	
Sp.Gr	1.022	1.021	1.021	1.021	1.022	1.022	1.022	1.021	1.021	1.023	1.021	
@ 3 ft. Surf.												
[redacted]	21.5	21	21.5	22	21.5	21.5	21.5	22	21.5	21	21.5	
DO mg/l	4.4	5	4.4	5	4.5	5.8	6.2	5.4	6.4	6.4	6.4	
pH	7.5	7.5	7.6	7.6	7.5	7.8	7.8	7.8	7.8	7.7	7.8	
[redacted]	0.54	0.32	2.5	2.52	0.55	2.29	1.74	2.79	4.73	2.57	1.39	
Salinity mg/l	29.8	31.1	28.5	28.5	31.1	29.8	29.8	29.8	28.5	29.8	28.5	
Sp.Gr	1.022	1.023	1.021	1.021	1.023	1.022	1.022	1.022	1.021	1.023	1.021	
1 ft Fr. Bottom												
[redacted]	21.5	21.5	22	21.5	21	21.5	21.5	22	21.5	21	21	
DO mg/l	4.5	5.1	5.5	5.6	4	5.8	6.3	5.4	6.2	7	6.8	
pH	7.5	8.1	7.6	7.6	7.4	7.8	7.8	7.8	7.8	7.8	7.8	
[redacted]	1.1	6.03	2.88	1.6	0.56	1.88	1.35	2.86	4.35	2.92	1.99	
Salinity mg/l	29.8	29.8	29.8	28.5	31.1	31.1	29.8	28.5	29.8	32.4	28.5	
Sp.Gr	1.022	1.022	1.022	1.021	1.023	1.023	1.022	1.021	1.022	1.024	1.022	
	Air Temp	Wind	CLOUD	WATER	TIDE	WEATHER	SKY	SAMPLED	TESTED	SAMPLER		
	24.5	ENE10	5%	CLEAR	IN	FAIR	SUNNY	3/11/99	3/11/99	ES/LB		

Tech. Note: YSI-57 Calibrated & new membrane, pH meter calibrated. Air Temp 22.5C @9:00 Salinity 29.8 for Cal.

Water Quality Monitoring Plan - Sunset Acres - Tavernier - Fl.

DATE: Apr. 6,1999

STATION	S1	S2	S3	S4	S5	S13	H8	H7	H6	H5	H3	NOTE
	6-Apr	6-Apr	6-Apr	6-Apr	6-Apr	6-Apr	6-Apr	6-Apr	6-Apr	6-Apr	6-Apr	
	5'	5'	5'	5'	5'	4'	4'	5'	5'	5'	5'	
Time Sampled	10:20	11:05	11:20	11:35	11:50	12:10	12:30	13:40	13:25	13:05	12:45	
@ 1 ft. Surf.												
[redacted]	27	27	27	27	27	26	26.5	27	27	27	27	
DO mg/l	3.5	3	3	3.4	3.4	4.5*	4.5	4.0*	3.8	4	3.5	* Erratic
pH	7.6	7.6	7.6	7.6	7.5	7.8	7.8	8	7.4	7.8	7.8	
[redacted]	4.9	3.34	2.55	1.34	1.99	3.13	3.06	1.83	2.9	3.27	2.41	
Salinity mg/l	32.4	32.4	32.4	32.4	32.4	32.4	32.4	33.7	33.7	33.7	33.7	
Sp.Gr	1.024	1.024	1.024	1.024	1.024	1.024	1.024	1.025	1.025	1.025	1.025	
@ 3 ft. Surf.							**					**No reading
[redacted]	26.5	27	27	26.5	26.5	26	26.5	27	27	27	27	taken at
DO mg/l	4.2	3.4	2.8	3	3.4	4.4*	4.5	4.3*	3.8	4.2	4.1	mid depth
pH	7.6	7.7	7.6	7.6	7.6	7.8	7.8	7.8	7.8	7.7	7.7	"Low Tide"
[redacted]	2.41	4.37	2.55	2.88	1.01	2.79	1.96	1.58	2.04	3.08	2.6	
Salinity mg/l	32.4	32.4	32.4	32.4	32.4	32.4	33.7	33.7	33.7	33.7	33.7	
Sp.Gr	1.024	1.024	1.024	1.024	1.024	1.024	1.025	1.025	1.025	1.025	1.025	
1 ft Fr. Bottom							**					
[redacted]	26.5	26.5	26.5	26.5	26	26	26.5	27	27	27	26.5	
DO mg/l	4	3.2	3.7	4	3.2	4.0*	4.5	4.0*	4	4.2	3.7	
pH	7.7	7.6	7.6	7.6	7.6	7.8	7.8	7.8	7.8	7.8	7.8	
[redacted]	1.99	2.96	3.28	2.48	0.5	1.59	1.96	1.94	2.87	2.93	2.92	
Salinity mg/l	31.1	31.1	32.4	33.7	32.4	32.4	33.7	33.7	32.4	33.7	33.7	
Sp.Gr	1.023	1.023	1.024	1.025	1.024	1.024	1.025	1.025	1.024	1.025	1.025	
	Air Temp	WIND	CLOUD	WATER	TIDE	WEATHER	SKY	SAMPLED	TESTED	SAMPLER		
	30	S8-10	5%	CLEAR	OUT	FAIR	SUNNY	4/6/99	4/6/99	ES/LS		
Tech. Note:	YSI-57 Calibrated & new membrane, pH meter calibrated. Air Temp 25 C								Salinity Cal 31.1 @ 10AM			8.24 Comp.

Water Quality Monitoring Plan - Sunset Acres - Tavernier - Fl.									DATE:	May-99	1999	
STATION	S1	S2	S3	S4	S5	S13	H8	H7	H6	H5	H3	NOTE
	11-May	11-May	11-May	11-May	11-May	11-May	11-May	11-May	11-May	11-May	11-May	
[redacted]	6'	6'	6'	6'	6'	5'	5'	6'	6'	6'	6'	
Time Sampled	7:40	8:25	8:45	9:05	9:25	9:40	9:55	11:30	11:05	10:40	10:15	
@ 1 ft. Surf.												
[redacted]	28.5	28	28.5	28.5	28	28	28	29	29	28.5	28.5	
DO mg/l	4.1	4.3	3.9	4.2	4	4.8	5.2	4.8	4.5	4	4.5	
pH	7.7	7.7	7.7	7.7	7.7	7.8	7.8	7.9	7.9	7.8	7.7	
[redacted]	3.32	2.04	1.07	5.78	3.75	5.4	4.19	3.42	2.99	0.79	1.78	
Salinity mg/l	35	35	35	35	35	36	36.3	36	35	35	35	
Sp.Gr	1.026	1.026	1.026	1.026	1.026	1.0265	1.027	1.0265	1.026	1.026	1.026	
@ 3 ft. Surf.							**					**No reading
[redacted]	28.5	28	28.5	28.5	28	28	28	29	29	28.5	28.5	taken at
DO mg/l	3.9	4.5	4.1	4.4	4	4.8	4.4	5.1	4.8	4.5	4.5	mid depth
pH	7.7	7.7	7.8	7.7	7.8	7.8	7.8	7.9	7.9	7.8	7.8	
[redacted]	2.25	1.68	0.99	3.42	2.5	1.97	1.34	2.22	2.44	1.48	1.61	
Salinity mg/l	35	35	35	36.3	35	36	36.3	36	36	35	35	
Sp.Gr	1.026	1.026	1.026	1.027	1.026	1.0265	1.027	1.0265	1.0265	1.026	1.026	
1 ft Fr. Bottom							**					
[redacted]	28.5	28.5	29	29	28.5	28	28	28.5	29	29	28.5	
DO mg/l	3.9	4.5	4	4.4	4.3	4.7	4.4	5.1	4.4	4	4	
pH	7.7	7.8	7.8	7.7	7.8	7.9	7.8	7.9	7.9	7.8	7.8	
[redacted]	2.7	1.03	1.59	3.73	4.54	2.19	1.34	1.86	2.77	1.91	2.65	
Salinity mg/l	35	35	35	35	35	36	36.3	36	35	35	35	
Sp.Gr	1.026	1.026	1.026	1.026	1.026	1.0265	1.027	1.0265	1.026	1.026	1.026	
	Air Temp	WIND	CLOUD	WATER	TIDE	WEATHER	SKY	SAMPLED	TESTED	SAMPLER		
	24	S5	5%	CLEAR	IN-OUT	FAIR	SUNNY	5/11/99	5/11/99	ES		
Tech. Note:	YSI-57 Calibrated & new membrane, pH meter calibrated. Air Temp						23C		Salinity cal @35.9		,7:30 AM	8.56 Comp

Water Quality Monitoring Plan - Sunset Acres - Tavernier - Fl.

DATE: Jun 5 1999

STATION	S1	S2	S3	S4	S5	S13	H8	H7	H6	H5	H3	NOTE
	5-Jun	5-Jun	5-Jun	5-Jun	5-Jun	5-Jun	5-Jun	5-Jun	5-Jun	5-Jun	5-Jun	
[redacted]	5.5	5.5	5.5	5.5	5.5	4.5	4	5.5	5.5	5.5	5.5	
Time Sampled	8:00	9:25	9:45	10:10	10:30	11:00	11:20	11:45	12:05	12:30	12:55	
@ 1 ft. Surf.												
[redacted]	28	29	29	28.5	29	27.5	27.5	28	28	28	28	
DO mg/l	3.8	4.2	4.2	3	3.8	4.9	4.8	4	3.8	4.2	4	
pH	7.8	7.8	7.8	7.8	7.8	7.8	7.7	7.9	7.8	7.8	7.8	
[redacted]	1.77	1.78	1.88	1.56	2.07	2.51	3.07	1.03	1.47	2.05	1.26	
Salinity mg/l	36.3	36.3	35.5	35.5	36.3	36.3	36.3	36.3	36.3	36.3	36.3	
Sp.Gr	1.027	1.027	1.0265	1.0265	1.027	1.0275	1.027	1.027	1.027	1.027	1.027	
@ 3 ft. Surf.							**					**No reading
[redacted]	28.5	28.5	29	28	28.5	27.5	27.5	28.5	28	28	28	taken at
DO mg/l	4	4	3.8	3.2	4	4.7	4.3	3.8	3.8	4	3.8	mid depth
pH	7.7	7.8	7.7	7.8	7.8	7.9	8	7.9	7.8	7.8	7.8	
[redacted]	1.3	2.58	1.44	3.38	1.7	2.59	1.83	0.83	1.43	1.81	1.06	
Salinity mg/l	36.3	36.3	35.5	35.5	37	36.3	36.3	35.5	35.5	35.5	36.3	
Sp.Gr	1.027	1.027	1.0265	1.0265	1.0275	1.027	1.027	1.0265	1.0265	1.026	1.027	
1 ft Fr. Bottom												
[redacted]	28.5	28.5	28.5	28	28	27.5	27.5	28.5	28	28	28.5	
DO mg/l	4	3.9	4	3.5	4	4.8	4.8	3.8	3.8	3.8	3.6	
pH	7.8	7.8	7.7	7.7	7.7	7.9	8	7.9	7.8	7.8	7.8	
[redacted]	1.93	1.9	1.63	0.56	1.02	3.25	1.83	1.9	0.96	1.78	2.35	
Salinity mg/l	36.3	36.3	35.5	35.5	37	36.3	36.3	35.5	36.3	36.3	36.3	
Sp.Gr	1.027	1.027	1.0265	1.0265	1.0275	1.027	1.027	1.0265	1.027	1.027	1.027	
	Air Temp	WIND	CLOUD	WATER	TIDE	WEATHER	SKY	SAMPLED	TESTED	SAMPLER		
	27	ENE5-6	10%	CLEAR	OUT	FAIR	SUNNY	6/5/99	6/5/99	ES		
Tech. Note:	YSI-57 Calibrated & new membrane, pH meter calibrated. Air Temp 27C								Salinity Cal @36.		7:50 AM	

Water Quality Monitoring Plan - Sunset Acres - Tavernier - Fl.

DATE: Jul-99

STATION	S1	S2	S3	S4	S5	S13	H8	H7	H6	H5	H3	NOTE
	16-Jul	16-Jul	16-Jul	16-Jul	16-Jul	16-Jul	16-Jul	16-Jul	16-Jul	16-Jul	16-Jul	
[redacted]	5.5	5.5	5.5	5.5	5.5	4.5	4	5.5	5.5	5.5	5.5	
Time Sampled	9:00	9:30	10:20	10:40	10:55	11:15	11:40	13:10	12:55	12:35	12:05	
@ 1 ft. Surf.												
[redacted]	31.1	30.7	31.1	31.1	31	31.5	31.3	31.3	31.3	31.3	31.3	
DO mg/l	3.44	3.55	3.44	2.97	3.86	5.3	4.74	6.04	4.51	4.06	4.74	
pH	8.2	8.2	8.3	8.2	8.3	83	8.4	8.5	8.4	8.3	8.4	
[redacted]	3.23	2.13	4.74	2.84	1.74	1.53	1.48	2.94	2.26	1.82	1.48	
Salinity mg/l	36.9	36.8	37.2	37.1	37	37.5	37.3	37.5	37.3	37.2	37.3	
Conductivity (mS)	62.3	61.9	63.2	62.7	62.5	63.7	63.2	63.4	63.2	63	63.2	
@ 3 ft. Surf.												
[redacted]	31.1	30.9	31.4	31	31	31.5	31.3	31.2	31.3	31.2	31.3	
DO mg/l	3.33	3.44	3.4	2.98	3.96	5.33	4.75	5.48	4.37	4.53	4.75	
pH	8.2	8.2	8.3	8.3	8.3	8.3	8.4	8.5	8.4	8.3	8.4	
[redacted]	4.45	2.31	3.27	2.19	1.72	1.86	2.82	1.76	1.74	3.45	2.82	
Salinity mg/l	36.9	36.9	37.2	37.2	37.1	37.4	37.3	37.4	37.3	37.2	37.3	
Conductivity (mS)	62.4	62.2	63.1	62.7	62.5	63.7	63.2	63.2	63.2	63	63.2	
1 ft Fr. Bottom												
[redacted]	31.1	31	31.3	30.9	31	31.5	31.3	31.2	31.2	31.2	31.3	
DO mg/l	3.29	3.23	3.34	3.02	4.02	5.24	4.86	6.07	4.35	4.53	4.86	
pH	8.2	8.2	8.3	8.3	83	8.3	8.4	8.5	8.4	8.3	8.4	
[redacted]	3.2	2.57	2.9	2.16	2.57	2.06	1.41	1.7	2.97	3.45	1.41	
Salinity mg/l	36.9	37	37.2	37.1	37.2	37.4	37.4	37.4	37.3	37.2	37.4	
Conductivity (mS)	62.4	62.4	63.1	62.5	62.6	63.7	63.3	63.2	63.2	63	63.3	
	Air Temp	WIND	CLOUD	WATER	TIDE	WEATHER	SKY	SAMPLED	TESTED	SAMPLER		
	28.9	E10-15	50%	FAIR	OUT	STORMY	PCLOUDY	7/16/99	7/16/99	ES		

Tech. Note: New YSI-85 calibrated, Temp: 28.9, pH meter calibrated, 8:30AM

Water Quality Monitoring Plan - Sunset Acres - Tavernier - Fl.

DATE: Aug 18/99

STATION	S1	S2	S3	S4	S5	S13	H8	H7	H6	H5	H3	NOTE
	18-Aug	18-Aug	18-Aug	18-Aug	18-Aug	18-Aug	18-Aug	18-Aug	18-Aug	18-Aug	18-Aug	
[redacted]	6	6	6	6	6	5	4	6	6	6	6	
Time Sampled	10:20	13:05	13:25	13:40	14:00	17:00	17:40	18:45	18:30	18:10	17:55	
@ 1 ft. Surf.												
[redacted]	31	31.2	31.4	31.2	31.2	30.1	30.1	30.3	30.5	30.5	30.3	
[redacted] mg/l	2	2.46	2.19	2.09	2.6	4.5	4.79	5.27	4.85	4.41	4.96	
[redacted]	7.6	7.6	7.6	7.5	7.6	7.7	7.9	7.9	7.9	7.7	7.8	
[redacted]	5.53	2.68	2.73	2.18	2.34	1.39	0.89	1.94	2.79	1.34	0.78	
Salinity mg/l	37.6	37.7	37.8	37.5	37.7	37.9	37.7	37.3	37	37	37.1	
Conductivity (mS)	63.7	63.7	64.1	63.4	63.8	62.7	62.5	62.1	61.7	61.8	61.8	
@ 3 ft. Surf.												
[redacted]	31	31.3	31.3	31.2	31.2	30.1	30.2	30.4	30.5	30.5	30.4	
[redacted] mg/l	2.52	2.65	1.88	1.92	2.54	4.52	5.13	5.13	4.43	3.75	3.95	
[redacted]	7.6	7.6	7.6	7.5	7.6	7.7	7.8	7.9	7.8	7.7	7.7	
[redacted]	4.51	2.53	2.9	2.78	2.6	1.72	2.29	3.02	1.81	1.18	3.63	
Salinity mg/l	37.9	37.5	38.1	38	37.9	37.9	37.8	37.6	37.4	37.8	37.6	
Conductivity (mS)	63.7	63.4	64.4	64.2	63.9	62.7	62.6	62.7	62.5	63	62.6	
1 ft Fr. Bottom												
[redacted]	31.1	30.7	31.1	31.1	30.8	30.2	30.2	30.4	30.5	30.4	30.4	
[redacted] mg/l	3.29	3.81	2.78	2.42	4.3	4.51	5.18	5.01	3.41	2.88	2.44	
[redacted]	8.2	7.7	7.6	7.7	7.7	7.7	7.8	7.8	7.8	7.7	7.6	
[redacted]	3.2	2.12	3.12	3.28	4.52	2.24	4.22	1.6	3.03	4.17	2.56	
Salinity mg/l	36.9	38.1	38.2	38.2	38.3	37.8	37.8	37.6	37.9	38.2	38.2	
Conductivity (mS)	62.4	63.8	64.3	64.3	64.1	62.8	62.6	62.7	63.3	63.5	63.6	
	Air Temp	WIND	CLOUD	WATER	TIDE	WEATHER	DRY	SAMPLED	TESTED	SAMPLER		
	32.2	E5	85%	FAIR	IN-OUT	STORMY	RAIN	8/18/99	8/18/99	ES/LS		

Tech. Note: YSI-85 meter calibrated & new membrane, Air Temp. 32.2C., pH & Turbidity meters calibrated, 9:00 AM

Field Data Sheet
Sunset Acres Case Study
Tavernier, Florida
LAW Project Number 40700-1-2681

Date: 3 / 19 / 02 Start Time: 1325

Sampling Team (print name, then sign): End Time:

Tides for Today	
Height	Time
High	noon
Low	

Tide during sampling: outgoing

Beaufort Scale (circle one number):		Seastate (circle one):	
Beaufort #	Wind Description	Seastate	Wave Height (m)
0	Calm	Flat	0
1	Light air	Ripples	0.1 – 0.2
2	Light Breeze	Small wavelets	0.3 – 0.5
3	Gentle Breeze	~~Large wavelets~~	0.6 – 1.0
4	Moderate Breeze	Whitecaps	1.5
5	Fresh breeze	Moderate waves	2

Wind Direction **from** (use N, NE, NNE, etc.): East

Rainfall Last 24 Hours (mm): ϕ

Bulk Water Sample:

Debris in Sample? (circle one): YES NO

Comments:

Current Direction (use N, NE, NNE, etc.):

Current Strength (circle one):

SLACK (no current) MODERATE (obvious)

SLIGHT (perceptible) STRONG (you wouldn't want to swim against it)

Station	Depth (ft) m	Time	Salinity (ppt) PS	Temperature (°C)	DO (mg/L)	Turbidity NTU	Remarks:
1a	1.6	1330	9.9	28.0	4.4	230	secchi disk = 0.5m
b			9.9	27.4	4.9	268	
c			9.6	27.2	4.4	626	
2a	1.7	1350	9.1	27.6	5.5	67	secchi disk = 1.7m (bottom)
b			9.4	27.4	5.8	68	
c			9.3	27.9	7.6	110	
3a	1.6	1400	8.7	28.0	4.7	62	secchi disk = 1.4 m
b			9.2	27.8	5.7	81	
c			9.1	27.6	4.8	110	
4a	1.3	1410	9.7	27.9	4.8	37	secchi disk = 1.3m (bottom)
b			9.9	27.9	5.2	51	
c			9.9	26.5	1.5	65	
5a	0.9	1430	9.4	28.4	7.5	15	secchi disk - not done can easily see bottom
			9.8	28.4	8.5	20	
			9.9	28.5	7.9	27	

Comments: a = surface
b = mid-depth
c = bottom (held ~ 0.2 m from bottom)

Field Data Sheet
Sunset Acres Case Study
Tavernier, Florida
LAW Project Number 40700-1-2681

Date: 3/19/02 Start Time: 10:05

End Time: 11:35

Sampling Team (print name, then sign):

PL Gertenbach
W.C. Leonard
R.A. Bastida

Tides for Today	
Height	Time
High	12 noon
Low	

Tide during sampling: incoming

Beaufort Scale (circle one number):		Seastate (circle one):	
Beaufort #	Wind Description	Seastate	Wave Height (m)
0	Calm	Flat	0
1	Light air	Ripples	0.1 – 0.2
2	Light Breeze	Small wavelets	0.3 – 0.5
3	Gentle Breeze	Large wavelets	0.6 – 1.0
4	Moderate Breeze	Whitecaps	1.5
5	Fresh breeze	Moderate waves	2

Wind Direction **from** (use N, NE, NNE, etc.): East

Rainfall Last 24 Hours (mm): Ø

Bulk Water Sample:

Debris in Sample? (circle one): YES NO

Comments:

Current Direction (use N, NE, NNE, etc.): ~~X~~

Current Strength (circle one):

SLACK (no current) MODERATE (obvious)

SLIGHT (perceptible) STRONG (you wouldn't want to swim against it)

Station	Depth ~~(ft)~~ (meters)	Time	Salinity (ppt)	Temperature (°C)	DO (mg/L)	Turbidity NTU	Remarks:
1a	1.4	10:05	10.9	26.9	4.0	270	no debris,
1b			10.1	26.7	4.5	230	secchi disk = 0.5 m
1c			10.1	26.7	0.6	580	
2a	1.4	10:40	9.5	27.1	4.3	55	secchi disk = 1.4 m (bottom)
2b			9.8	27.0	5.4	52	
2c			9.9	27.0	5.7	52	
3a	1.3	1055	9.7	27.5	3.5	67	secchi disk = 1.2 m
3b			9.7	27.3	4.2	84	
3c			9.7	27.4	4.1	95	
4a	1.4	1110	9.3	27.3	4.4	31.5	secchi disk = 1.4 m (bottom)
4b			9.6	27.3	4.5	55	
4c			9.5	27.0	1.6	56	
5a	1.2	1125	8.5	26.7	5.0	8.7	secchi disk = 1.2 m (bottom)
5b			8.5	26.0	6.7	15	
5c			8.9	26.6	6.3	15	
5a					6.0		took ~~surface~~ pg 2nd time
5c				26.2	8.1		

Comments:

a = surface
b = mid-depth
c = bottom (held ~ 0.2 m from bottom)

Field Data Sheet
Sunset Acres Case Study
Tavernier, Florida
LAW Project Number 40700-1-2681

9 / 03 / 02 (vel)

Start Time: 9:47

Sampling Team (print name, then sign): Wendy Leonard, Ricardo Bastida

End Time: Wendy Leonard

Tides for Today	
Height	Time
High	8:30 AM
Low	

Tide during sampling: Coming off high tide

Beaufort Scale (circle one number):		Seastate (circle one):	
Beaufort #	Wind Description	Seastate	Wave Height (m)
0	Calm	Flat	0
1	Light air	Ripples	0.1 – 0.2
2	Light Breeze	Small wavelets	0.3 – 0.5
3	Gentle Breeze	Large wavelets	0.6 – 1.0
4	Moderate Breeze	Whitecaps	1.5
5	Fresh breeze	Moderate waves	2

Wind Direction from (use N, NE, NNE, etc.): SE 5-10

Rainfall Last 24 Hours (mm): Minimal

Bulk Water Sample:

Debris in Sample? (circle one): YES NO

Comments:

Current Direction (use N, NE, NNE, etc.): NONE

Current Strength (circle one):

SLACK (no current) MODERATE (obvious)

SLIGHT (perceptible) STRONG (you wouldn't want to swim against it)

Station	Depth (ft)	Time	Salinity (ppt)	Temperature (°C)	DO (mg/L)	Turbidity NTU	Remarks:
1	A	9:48	48.2 MS	30.8	3.53	4.24	Secchi depth
	B	~~9:54~~			~~1.8~~		~~depth~~ = 1.2 m
							depth = 2.0 m
	B	9:54	50.0	31.6	1.8	12.2	1 Meter
							Ooze/Algae small 75
	C	9:58	50.2	31.6	0.34	40.0	mats (2-20 cm ϕ) 1.8 Meters
							floating on surface
2	A	10:39	56.6	32.5	4.46	7.36	Secchi 1.5 m
							Depth = 2.0 m
	B	10:41	56.5	31.6	1.96	6.06	1M
	C	10:43	53.8	31.6	2.25	24.0	
3	A	10:55	56.1	32.1	3.90	5.60	Secchi 1.8 m
							Depth = 2.0 m
	B	10:58	55.6	31.3	2.15	6.9	
	C	11:01	50.2	31.2	3.04	25.0	
4	A	11:11	49.4	32.0	3.16	5.6	Secchi 1.65
							Depth 1.65
	B	11:13	50.2	31.5	4.00	2.5	
	C	11:14	50.2	31.2	4.95	4.0	

Comments:

Field Data Sheet
Sunset Acres Case Study
Tavernier, Florida
LAW Project Number 40700-1-2681

9 / 3 / 02

Start Time: _____

Sampling Team (print name, then sign):

End Time: _____

Tides for Today	
Height	Time
High	
Low	

Tide during sampling:

Beaufort Scale (circle one number):		Seastate (circle one):	
Beaufort #	Wind Description	Seastate	Wave Height (m)
0	Calm	Flat	0
1	Light air	Ripples	0.1 – 0.2
2	Light Breeze	Small wavelets	0.3 – 0.5
3	Gentle Breeze	Large wavelets	0.6 – 1.0
4	Moderate Breeze	Whitecaps	1.5
5	Fresh breeze	Moderate waves	2

Wind Direction **from** (use N, NE, NNE, etc.)

Rainfall Last 24 Hours (mm):

Bulk Water Sample:

Debris in Sample? (circle one): YES NO

Comments: _____

Current Direction (use N, NE, NNE, etc.): _____

Current Strength (circle one):

SLACK (no current) MODERATE (obvious)

SLIGHT (perceptible) STRONG (you wouldn't want to swim against it)

Station	Depth (ft)	Time	Salinity (ppt)	Temperature (°C)	DO (mg/L)	Turbidity NTU	Remarks:
5	a surface	11:27	50.5	31.3	4.83	2.00	25.01, 223 80.30, 859 1.45 Secchi + Depth Clear, light green
	b Mid	11:30	50.5	31.3	4.82	1.6	
	C 8" off bottom		50.6	31.2	5.2	1.35	
1	A	12:03	47.8	31.6	3.55	3.03	Tide still appears very high. Secchi 1m
	B Mid		50.0	31.8	3.05	13.7	Depth = 1.8m ~~Secchi 1.9, Depth 2.0m~~ vcc
	C 8" off bottom		50.0	31.8	3.01	18.5	
							Water almost over low areas in breaker wall!

Comments: _____

Field Data Sheet
Sunset Acres Case Study
Tavernier, Florida
LAW Project Number 40700-1-2681

Date: _____ / _____ / _____ Start Time: _____

Sampling Team (print name, then sign): End Time: _____

Tides for Today	
Height	Time
High	
Low	

Tide during sampling:

Beaufort Scale (circle one number):		Seastate (circle one):	
Beaufort #	Wind Description	Seastate	Wave Height (m)
0	Calm	Flat	0
1	Light air	Ripples	0.1 – 0.2
2	Light Breeze	Small wavelets	0.3 – 0.5
3	Gentle Breeze	Large wavelets	0.6 – 1.0
4	Moderate Breeze	Whitecaps	1.5
5	Fresh breeze	Moderate waves	2

Wind Direction **from** (use N, NE, NNE, etc.)

Rainfall Last 24 Hours (mm):

Bulk Water Sample:

Debris in Sample? (circle one): YES NO

Comments: _____

Current Direction (use N, NE, NNE, etc.): _____

Current Strength (circle one):

SLACK (no current) MODERATE (obvious)

SLIGHT (perceptible) STRONG (you wouldn't want to swim against it)

Station	Depth (ft)	Time	Salinity (ppt)	Temperature (°C)	DO (mg/L)	Turbidity NTU	Remarks:
2	a Surface	12:20	49.1	32.9	2.75	5.35	Secchi 1.9M Depth 2 Meter
	b 1 Meter		49.7	32.0	~~2.9~~ 3.9	5.4	
	c	12:26	49.5	31.7	4.7	4.9	HOT!
3	A		48.8	32.7	2.97	4.35	1.25 Secchi 2.0 depth Tide still very high!
	B		49.4	31.7	3. 4.6	16.2	
	C	12:36	49.4	31.6	6.2	6.3	
4	A	12:46	48.8	32.8	3.5	6.7	1.65 Secchi, Depth
	B		49.5	32.5	5.0	2.9	
	C		49.7	32.3	5.16	1.65	

Comments: _____

Field Data Sheet
Sunset Acres Case Study
Tavernier, Florida
LAW Project Number 40700-1-2681

Date: _____ / _____ / _____ Start Time: _____

Sampling Team (print name, then sign): End Time: _____

Tides for Today	
Height	Time
High	
Low	

Tide during sampling:

Beaufort Scale (circle one number):		Seastate (circle one):	
Beaufort #	Wind Description	Seastate	Wave Height (m)
0	Calm	Flat	0
1	Light air	Ripples	0.1 – 0.2
2	Light Breeze	Small wavelets	0.3 – 0.5
3	Gentle Breeze	Large wavelets	0.6 – 1.0
4	Moderate Breeze	Whitecaps	1.5
5	Fresh breeze	Moderate waves	2

Wind Direction **from** (use N, NE, NNE, etc.)

Rainfall Last 24 Hours (mm):

Bulk Water Sample:

Debris in Sample? (circle one): YES NO

Comments: _____

Current Direction (use N, NE, NNE, etc.): _____

Current Strength (circle one):

SLACK (no current) MODERATE (obvious)

SLIGHT (perceptible) STRONG (you wouldn't want to swim against it)

Station	Depth (ft)	Time	Salinity (ppt)	Temperature (°C)	DO (mg/L)	Turbidity NTU	Remarks:
5	A	12:58	50.2	32.3	5.24	1.5	1.25 Secchi, Depth 1.25
	B		50.3	32.2	5.2	1.48	
	C		50.4	32.1	5.5	1.35	

Comments: _____

LAW

LAWGIBB Group Member

METER CALIBRATION FORM

Project Name: MONROE CTY CANALS **Date:** 9/3/02

Project Number: _____ **Phase:** _____ **Task:** _____

Dissolved Oxygen (DO) Meter

Meter ID Number: #2 **Time:** 9:25 AM / PM

Time allowed for calibration solution to reach saturation:

_____ Minutes (should be a minimum of 45 minutes)

Temperature of Calibration Solution and Table Value Used: AIR

Temperature: 29.9 °C Value 6.19 mg/L

Manufacturer: YSI **Lot:** _____

Calibrated By: RB **Expiration Date:** _____

Conductivity Meter

Meter ID Number: #1 **Time:** 9:20 AM / PM

Standard Used: (Check one):

9 76 ~~100 µmhos/cm~~ 1000 µS/cm _____ 1,000 µmhos/cm

_____ 10,000 µmhos/cm _____ 100,000 µmhos/cm

Manufacturer: YSI **Lot:** 2946

Calibrated By: RB **Expiration Date:** 12/14/02

Turbidimeter

Meter ID Number: 1 **Time:** 9:22 AM / PM

Standard	Reading
0.02 ntu	0.08 ntu
10.00 ntu	9.83 ntu
100 ntu	100.7 ntu
1000 ntu	1003 ntu

Manufacturer: DRT-15CE

Lot: 20326

Expiration Date: 10/03

Calibrated By: RB

Field Data Sheet
Sunset Acres Case Study
Tavernier, Florida
LAW Project Number 40700-1-2681

Date: 11/04/02 Start Time: 9:20 AM

Sampling Team (print name, then sign): Wendy Leonard, Rich Bastida

End Time: 10:35

Tides for Today	
Height	Time
High	
Low	

Tide during sampling:

Beaufort Scale (circle one number):		Seastate (circle one):	
Beaufort #	Wind Description	Seastate	Wave Height (m)
0	Calm	Flat	0
1	Light air	Ripples	0.1 – 0.2
2	Light Breeze	Small wavelets	0.3 – 0.5
3	Gentle Breeze	Large wavelets	0.6 – 1.0
4	Moderate Breeze	Whitecaps	1.5
5	Fresh breeze	Moderate waves	2

Wind Direction **from** (use N, NE, NNE, etc.): Bay East

Rainfall Last 24 Hours (mm): 0 mm

Bulk Water Sample:

Debris in Sample? (circle one): YES NO

Comments:

MS

Current Direction (use N, NE, NNE, etc.):

Current Strength (circle one):

SLACK (no current) MODERATE (obvious)

SLIGHT (perceptible) STRONG (you wouldn't want to swim against it)

Station	Depth (ft)	Time	Salinity (ppt)	Temperature (°C)	DO (mg/L)	Turbidity NTU	Remarks:
#1	Surface	9:20	5.4	28.6	~~28.2~~ 1.86	15	0.6 Meter Secci Depth 1.8 Total Depth
	Mid	9:25	6.0	28.3	2.2	19.5	0.9 Depth
	Bottom	9:30	6.7	28.4	2.34	140	1.5 Meters Depth Water is Milky green Not clear
#2	Surface	9:43	6.4	28.5	1.81	6.5	1.7 Meter Secci Disk 1.85 Total Depth
	Mid	9:45	6.8	28.7	1.70	8.25	0.9 Depth
	Bottom	9:50	6.9	28.3	2.00	100/30 before settling	Water is a bit clearer Less Milky
#3	Surface	9:56	5.7	28.1	3.05	4.04	1.7 Meter Secci Depth TD 1.7 Meters
	Mid	9:58	6.6	28.0	2.11	4.5	Clearer water
	Bottom	10:01	6.7	27.8	1.95	5.4	

Comments:

Field Data Sheet
Sunset Acres Case Study
Tavernier, Florida
LAW Project Number 40700-1-2681

Page 2

Date: 11/04/02 Start Time: _____

Sampling Team (print name, then sign): End Time: _____

Tides for Today	
Height	Time
High	
Low	

Tide during sampling:

Beaufort Scale (circle one number):

Beaufort #	Wind Description
0	Calm
1	Light air
2	Light Breeze
3	Gentle Breeze
4	Moderate Breeze
5	Fresh breeze

Seastate (circle one):

Seastate	Wave Height (m)
Flat	0
Ripples	0.1 – 0.2
Small wavelets	0.3 – 0.5
Large wavelets	0.6 – 1.0
Whitecaps	1.5
Moderate waves	2

Wind Direction **from** (use N, NE, NNE, etc.):

Rainfall Last 24 Hours (mm):

Bulk Water Sample:

Debris in Sample? (circle one): YES NO

Comments: _____

Current Direction (use N, NE, NNE, etc.): East 10 mph

Current Strength (circle one):

SLACK (no current) MODERATE (obvious)

SLIGHT (perceptible) STRONG (you wouldn't want to swim against it)

Station	Depth (ft)	Time	Salinity (ppt)	Temperature (°C)	DO (mg/L)	Turbidity NTU	Remarks:
4	Surface	10:07	5.9	~~[illegible]~~ 28.1	3.51	4.1	Entrance
							1.75 Secci Disk
	Mid	10:10	7.0 (7.7)	28.1	3.16 (3.9)	3.4	1.75 Total Depth
	Bottom	10:12	7.3	27.5	3.58	30	
				26.8°			Much clearer H2O
#5	Surface	10:23	7.9	~~3.64~~	3.64	1.5	Nearshore Sample
							0.75 Secci + Total Depth
							25° 01.220
							80 30.864
							Crystal Clear H2O -
	Mid	10:25	7.9	26.8°	3.72	2.2	
	Bottom	10:27	7.8	26.8	3.81	1.4	

Comments: _____

Sunset Acres Case Study
Tavernier, Florida
LAW Project Number 40700-1-2681

Date: 11 / 04 / 02 Start Time: 11:20 AM

Sampling Team (print name, then sign): Same

End Time:

Tides for Today	
Height	Time
High	
Low	

Tide during sampling:

Beaufort Scale (circle one number):		Seastate (circle one):	
Beaufort #	Wind Description	Seastate	Wave Height (m)
0	Calm	Flat	0
1	Light air	Ripples	0.1 – 0.2
(2)	Light Breeze	Small wavelets	0.3 – 0.5
3	Gentle Breeze	Large wavelets	0.6 – 1.0
4	Moderate Breeze	Whitecaps	1.5
5	Fresh breeze	Moderate waves	2

Wind Direction **from** (use N, NE, NNE, etc.)

Rainfall Last 24 Hours (mm):

Bulk Water Sample:

Debris in Sample? (circle one): YES (NO)

Comments:

Current Direction (use N, NE, NNE, etc.):

Current Strength (circle one):

SLACK (no current) MODERATE (obvious)

SLIGHT (perceptible) STRONG (you wouldn't want to swim against it)

Station	Depth (ft)	Time	Salinity (ppt)	Temperature (°C)	DO (mg/L)	Turbidity NTU	Remarks:
#1	Surface	11:20	7.3	29.0	2.19	20.5	0.7 Meter Secci Depth, 1.8 M Total Depth
	Mid	11:22	7.4	28.6	2.32	24.3	
	Bottom	11:25	7.3	28.3	2.33	28.0	
#2	Surface	11:32	5.8	28.7	2.43	6.14	1.2 Meter Secci Depth 1.2 Total Depth
	Mid	11:35	7.3	28.5	2.89	8.03	
	Bottom	11:37	7.3	28.2	3.34	7.06	
#3	Surface	11:43	6.3	28.4 2.94	2.94	3.16	1.2 Meter Secci Depth 1.3 Total Depth
	Mid	11:45	7.3	28.4	2.60	13.0	
	Bottom	11:46	7.3	27.9	3.36	165	
#4	Surface	11:50	6.7	28.6	3.4	3.84	1.3 Meter Secci Disk 1.3 Total Depth
	Mid	11:51	7.1	28.2	3.25	3.8	
	Bottom	11:52	7.1	27.9	3.96	3.2	

Comments:

Field Data Sheet
Sunset Acres Case Study
Tavernier, Florida
LAW Project Number 40700-1-2681

Date: _____ / _____ / _____ Start Time: _____

Sampling Team (print name, then sign): End Time: _____

Tides for Today	
Height	Time
High	
Low	

Tide during sampling:

Beaufort Scale (circle one number):

Beaufort #	Wind Description
0	Calm
1	Light air
2	Light Breeze
3	Gentle Breeze
4	Moderate Breeze
5	Fresh breeze

Seastate (circle one):

Seastate	Wave Height (m)
Flat	0
Ripples	0.1 – 0.2
Small wavelets	0.3 – 0.5
Large wavelets	0.6 – 1.0
Whitecaps	1.5
Moderate waves	2

Wind Direction **from** (use N, NE, NNE, etc.)

Rainfall Last 24 Hours (mm):

Bulk Water Sample:

Debris in Sample? (circle one): YES (NO)

Comments: _____

Current Direction (use N, NE, NNE, etc.): _____

Current Strength (circle one):

SLACK (no current) MODERATE (obvious)

SLIGHT (perceptible) STRONG (you wouldn't want to swim against it)

Station	Depth (ft)	Time	Salinity (ppt)	Temperature (°C)	DO (mg/L)	Turbidity NTU	Remarks:
05	Surface	1200	~~5.7~~ 6.6	27.3	4.38	1.8	Nearshore location Same lat / long as AM
	Mid	1203	7.1	27.2	4.06	1.8	Meter 1.4 Secci Disk + DO for Depth
	Bottom	1206	7.1	27.2	~~4.06~~ 4.2	1.63	

Comments: _____

LAW

LAWGIBB Group Member

METER CALIBRATION FORM

Project Name: Monroe County Crools **Date:** 11/04/02

Project Number: 40700-01-2681 **Phase:** _____ **Task:** _____

Dissolved Oxygen (DO) Meter

Meter ID Number: #1 **Time:** 9:10 (AM) / PM

Time allowed for calibration solution to reach saturation: 100% saturation TO air

_____ Minutes (should be a minimum of 45 minutes)

Temperature of Calibration Solution and Table Value Used:

Temperature: 26.5 °C Value 6.4 mg/L

Manufacturer: YSI 55 **Lot:** NA

Calibrated By: Rich Bastian **Expiration Date:** NA

Conductivity Meter

Meter ID Number: #2 **Time:** 9:05 (AM) / PM

Standard Used: (Check one):

_____ 100 µmhos/cm ✓ 1,000 µmhos/cm 993 @26.4°C

✓ 10,000 µmhos/cm _____ 100,000 µmhos/cm

Manufacturer: YSI 30 **Lot:** 2946

Calibrated By: Rich Bastian **Expiration Date:** 12/14/02

Turbidimeter

Meter ID Number: ~~15CF~~ #1 **Time:** 9:00 (AM) / PM

Standard	Reading
0.02 ntu	0.04 ntu
10.00 ntu	10.1 ntu
100 ntu	99.2 ntu
1000 ntu	982 ntu

Manufacturer: Scientific Inc

Lot: 20326

Expiration Date: 10/03

Calibrated By: WCC

Field Data Sheet
Sunset Acres Case Study
Tavernier, Florida
LAW Project Number 40700-1-2681

Date: 2/17/03 Start Time: 9:00 AM

Sampling Team (print name, then sign): End Time: 1:40 PM

Wendy Leonard
Ricardo Bastida

Tides for Today	
Height	Time
High	
Low	

Tide during sampling: Low - Rising Started Very

Beaufort Scale (circle one number):		Seastate (circle one):	
Beaufort #	Wind Description	Seastate	Wave Height (m)
0	Calm	Flat ✓	0
1	Light air	Ripples	0.1 – 0.2
2	Light Breeze	Small wavelets	0.3 – 0.5
3	Gentle Breeze	Large wavelets	0.6 – 1.0
4	Moderate Breeze	Whitecaps	1.5
5	Fresh breeze	Moderate waves	2

Wind Direction **from** (use N, NE, NNE, etc.): SW 5 mph

Rainfall Last 24 Hours (mm):

Bulk Water Sample:

Debris in Sample? (circle one): YES NO

Comments:

Current Direction (use N, NE, NNE, etc.): Slack

Current Strength (circle one):

SLACK (no current) MODERATE (obvious)

SLIGHT (perceptible) STRONG (you wouldn't want to swim against it)

Station	Depth ~~(m)~~ M Total	Time	Salinity (ppt)	Temperature (°C)	DO (mg/L)	Turbidity NTU *	Remarks:
#1a	1.7	9:30	29.3	24.4	2.5	7.37	1.3 M Secchi Disk
b			29.4	24.3	2.3	9.2	
c			29.6	24.1	1.7	13.4	
#2a	1.6	9:50	29.1	24.2	2.6	5.16	1.6 M Secchi Disk
b			29.3	23.9	1.83	7.3	
c			29.5	23.8	1.6	7.15	
#3a	1.7	10:02	29.2	24.2	2.55	3.25	1.7 M Secchi Disk
b			29.6	24.2	2.4	4.27	
c			29.9	24.1	2.3	16.0	
#4a	1.0	10:14	29.1	24.3	3.37	5.55	1 M Secchi Disk
b			29.4	24.3	3.58	3.70	Tide ~~start~~ ingoing -
c			30.6	24.4	5.3	12.0	slight current
#5a	1.0	10:24	30.5	24.6	5.0	3.1	Secchi Disk 1 Meter
b			30.8	24.9	5.03	2.5	
c			31.2	25.0	5.38	3.0	

Comments: a = surface (just under)
b = Mid-depth
c = bottom (just above)
Could see culverts in break water at end of canal #1

* All turbidity readings should have a 0.3 NTU subtracted due to background readings

Field Data Sheet
Sunset Acres Case Study
Tavernier, Florida
LAW Project Number 40700-1-2681

Date: 2/17/03 Start Time: _____

Sampling Team (print name, then sign): End Time: _____

Wendy Leonard
Ricardo Bastida

Tides for Today	
Height	Time
High	
Low	

Tide during sampling: Starting to Rise

Beaufort Scale (circle one number):		Seastate (circle one):	
Beaufort #	Wind Description	Seastate	Wave Height (m)
0	Calm	Flat	0
1	Light air	Ripples	0.1 – 0.2
2	Light Breeze	Small wavelets	0.3 – 0.5
3	Gentle Breeze	Large wavelets	0.6 – 1.0
4	Moderate Breeze	Whitecaps	1.5
5	Fresh breeze	Moderate waves	2

Wind Direction **from** (use N, NE, NNE, etc.)

Rainfall Last 24 Hours (mm): Rained off & on during sampling in the PM

Bulk Water Sample:

Debris in Sample? (circle one): YES NO

Comments: _____

Current Direction (use N, NE, NNE, etc.): _____ Same as Morning

Current Strength (circle one):

SLACK (no current) MODERATE (obvious)

SLIGHT (perceptible) STRONG (you wouldn't want to swim against it)

Station	Depth (~~M~~ Total)	Time	Salinity (ppt)	Temperature (°C)	DO (mg/L)	Turbidity NTU	Remarks:
#1 a	1.7	12:00 PM	29.1	24.6	3.15	6.2	Secchi Disk 1.5 Meters
b			29.4	24.2	1.97	5.7	
c			29.6	24.2	2.70	13.0	
#2 a	1.7	12:19 PM	28.7	24.4	2.98	4.48	1.6 M Secchi Disk
b			29.2	24.3	2.43	5.4	
c			29.5	24.1	3.08	7.03	
#3 a	1.6	12:53 PM	28.8	24.4	3.18	2.58	Secchi Disk 1.5 Meters
b			29.7	24.3	3.29	3.5	
c			30.2	24.3	3.43	21.5	
#4 a	1.0	1:09	29.2	24.4	3.68	10.0	Secchi Disk 1.0 Meters
b			30.7	24.8	5.8	2.2	
c			30.9	24.8	6.0	10.0	
#5 a	0.9	1:25	30.8	24.9	5.39	6.0	Secchi Disk 0.9 Meters
b			30.7	24.7	5.54	1.9	Clear water
c			30.8	24.9	5.87	2.0	

Comments: a = just below surface
b = Mid-depth
c = just above the bottom

STATION 1
CORE 1 of 2

Subsample	Crucible Weight	Subsample wet weight in grams	Subsample Dry Weight in grams	% water in frozen core	Subsample pre-muffle dry weight in grams	Subsample muffled weight in grams	% Organic Content
1	42.1	50.44	20.9	58.6%	7.74	7.33	5.3%
2	42.56	49.79	29.15	41.5%	9.73	9.21	5.3%
3	46.07	51.47	28.71	44.2%	10.87	10.43	4.0%
4	43.6	50.02	27.23	45.6%	10.66	10.32	3.2%
5	48.06	50.02	27.38	45.3%	14.87	13.95	6.2%
6	43.57	50.67	27.77	45.2%	10.6	10.02	5.5%

CORE SAMPLE DESCRIPTION			
	MEAN	**46.7%**	**4.9%**
	Std Dev	**6.0%**	**1.1%**
	Number	**6**	**6**

METHODS - cores were obtained from the field forzen in plastic pipes. The frozen cores were sliced into sections. The sections were placed in crucibles in a drying oven set at 60 degrees Celsius for up to 48 hours or until dry weight stabilized. There was no evidence of stratification in the cores (only 22 to 27 cm in length), and the grain size was uniformly small mud-clay material with some shell fragments or rubble. Grain size was not retained by .125 mm sieve, indicating very fine mud-clays. Less than 10% of dry weight of sediment was larger grain size. Smaller samples of dried sediments were put into smaller crucibles, and placed in a muffle furnace at 555 degrees Celsius to burn all organic matter. Samples remained in muffle furnace for 3 hours, were cooled, and re-weighed to determine percent organics in the sediment. Sediment samples were discolored black, with strong methane odor, and very sticky consistency, suggesting high organic content. All samples were weighed on a top-loading analytical scale to 0.01 grams. Crucible weights have already been subtracted from sample weights.

STATION 1
CORE 2 of 2

Subsample	Crucible Weight	Subsample wet weight in grams	Subsample Dry Weight in grams	% water in frozen core	Subsample pre-muffle dry weight in grams	Subsample muffled weight in grams	% Organic Content
1	42.14	51.3	25.71	49.9%	15.94	15.14	5.0%
2	42.59	52.43	28.35	45.9%	16.04	15.21	5.2%
3	46.08	50.76	29.53	41.8%	15.95	15.1	5.3%
4	43.62	50.18	25.84	48.5%	13.4	12.72	5.1%
5	48.11	50.42	27.69	45.1%	13.58	12.89	5.1%
6	43.64	50.04	29.15	41.7%	19.55	18.65	4.6%

CORE SAMPLE DESCRIPTION

MEAN	**45.5%**	**5.0%**
Std Dev	**3.4%**	**0.2%**
Number	**6**	**6**

STATION 2
CORE 1 of 2

Subsample	Crucible Weight	Subsample wet weight in grams	Subsample Dry Weight in grams	% water in frozen core	Subsample pre-muffle dry weight in grams	Subsample muffled weight in grams	% Organic Content
1	42.1	50.8	26.83	47.2%	13.84	13.42	3.0%
2	42.56	50.99	29.48	42.2%	13.17	12.83	2.6%
3	46.07	52.8	35.18	33.4%	14.78	14.35	2.9%
4	43.59	50.5	33.93	32.8%	15.87	15.07	5.0%
5	48.06	50.59	34.53	31.7%	14.17	13.67	3.5%
6	43.57	50.29	36.22	28.0%	10.04	9.7	3.4%

CORE SAMPLE DESCRIPTION

MEAN	**35.9%**	**3.4%**
Std Dev	**7.2%**	**0.9%**
Number	**6**	**6**

STATION 2
CORE 2 of 2

Subsample	Crucible Weight	Subsample wet weight in grams	Subsample Dry Weight in grams	% water in frozen core	Subsample pre-muffle dry weight in grams	Subsample muffled weight in grams	% Organic Content
1	42.1	50.44	28.6	43.3%	13.56	13.12	3.2%
2	42.57	50.3	31.51	37.4%	13.12	12.82	2.3%
3	46.07	52.73	31.97	39.4%	14.6	14.21	2.7%
4	43.59	50.18	32.36	35.5%	13.73	13.42	2.3%
5	48.07	52.38	36.53	30.3%	15.21	14.79	2.8%
6	43.57	52.93	37.93	28.3%	12.83	12.37	3.6%

CORE SAMPLE DESCRIPTION

MEAN	**35.7%**	**2.8%**
Std Dev	**5.6%**	**0.5%**
Number	**6**	**6**

STATION 3
CORE 1 of 2

Subsample	Crucible Weight	Subsample wet weight in grams	Subsample Dry Weight in grams	% water in frozen core	Subsample pre-muffle dry weight in grams	Subsample muffled weight in grams	% Organic Content
1	42.11	53.64	21.34	60.2%	19.23	17.44	9.3%
2	42.57	49.98	26.42	47.1%	18.65	17.81	4.5%
3	46.08	50.62	29.99	40.8%	22.58	22.39	0.8%
4	43.59	50.56	30.15	40.4%	29.12	27.69	4.9%
5	48.09	50.7	30.86	39.1%	22.47	21.53	4.2%
6	43.57	50.34	32.14	36.2%	22.55	21.8	3.3%

CORE SAMPLE DESCRIPTION

MEAN	**44.0%**	**4.5%**
Std Dev	**8.7%**	**2.8%**
Number	**6**	**6**

STATION 3
CORE 2 of 2

Subsample	Crucible Weight	Subsample wet weight in grams	Subsample Dry Weight in grams	% water in frozen core	Subsample pre-muffle dry weight in grams	Subsample muffled weight in grams	% Organic Content
1	42.1	50.46	19.49	61.4%	11.09	10.44	5.9%
2	42.56	49.07	23.84	51.4%	10.36	9.84	5.0%
3	46.07	51.99	28.75	44.7%	9.46	9.18	3.0%
4	43.59	49.9	26.45	47.0%	19.05	18.48	3.0%
5	48.07	53.03	32.35	39.0%	9.79	9.23	5.7%
6	43.57	51.87	31.98	38.3%	12.62	11.94	5.4%

CORE SAMPLE DESCRIPTION

MEAN	**47.0%**	**4.7%**
Std Dev	**8.6%**	**1.3%**
Number	**6**	**6**

STATION 4
CORE 1 of 2

Subsample	Crucible Weight	Subsample wet weight in grams	Subsample Dry Weight in grams	% water in frozen core	Subsample pre-muffle dry weight in grams	Subsample muffled weight in grams	% Organic Content
1	44.02	51.22	19.22	62.5%	8.46	7.96	5.9%
2	45.46	53.97	27.37	49.3%	15.09	14.46	4.2%
3	47.66	50.29	19.94	60.3%	13.54	12.91	4.7%
4	49.28	50.38	27.7	45.0%	10.57	10.16	3.9%
5	49.46	50.07	24.13	51.8%	13.96	13.49	3.4%
6	42.73	53.85	24.65	54.2%	11.05	10.47	5.2%

CORE SAMPLE DESCRIPTION

MEAN	**53.9%**	**4.5%**
Std Dev	**6.6%**	**0.9%**
Number	**6**	**6**

STATION4
CORE 2 of 2

Subsample	Crucible Weight	Subsample wet weight in grams	Subsample Dry Weight in grams	% water in frozen core	Subsample pre-muffle dry weight in grams	Subsample muffled weight in grams	% Organic Content
1	40.04	50.49	15.14	70.0%	4.4	4.01	8.9%
2	40.93	50.22	17.31	65.5%	5.47	5.18	5.3%
3	43.58	50.11	18.33	63.4%	9.1	8.5	6.6%
4	43.25	50.33	16.9	66.4%	5.75	5.44	5.4%
5	43.93	50.6	18.61	63.2%	5.77	5.03	12.8%
6	43.91	49.02	16.93	65.5%	6.47	5.91	8.7%

CORE SAMPLE DESCRIPTION

MEAN	**65.7%**	**7.9%**
Std Dev	**2.5%**	**2.8%**
Number	**6**	**6**

STATION 5
CORE 1 of 2

Subsample	Crucible Weight	Subsample wet weight in grams	Subsample Dry Weight in grams	% water in frozen core	Subsample pre-muffle dry weight in grams	Subsample muffled weight in grams	% Organic Content
1	42.1	51.67	23.25	55.0%	9.61	9.2	4.3%
2	42.56	50.01	22.04	55.9%	10.52	10.29	2.2%
3	46.07	50.17	28.44	43.3%	11.24	10.87	3.3%
4	43.19	50.34	28.24	43.9%	10.78	10.44	3.2%
5	48.06	50.23	26.63	47.0%	10.61	9.38	11.6%
6	43.57	34.96	18.78	46.3%	10.19	9.76	4.2%

CORE SAMPLE DESCRIPTION

MEAN	**48.6%**	**4.8%**
Std Dev	**5.5%**	**3.4%**
Number	**6**	**6**

STATION 5
CORE 2 of 2

Subsample	Crucible Weight	Subsample wet weight in grams	Subsample Dry Weight in grams	% water in frozen core	Subsample pre-muffle dry weight in grams	Subsample muffled weight in grams	% Organic Content
1	49.4	49.71	16.6	66.6%	9.14	8.57	6.2%
2	44.89	50.29	19.47	61.3%	8.25	7.74	6.2%
3	43.96	50.11	23.92	52.3%	10.03	9.44	5.9%
4	43.14	50.3	23.88	52.5%	8.57	8	6.7%
5	46.29	50.23	23.53	53.2%	9.24	8.69	6.0%
6	42.47	51.64	31.38	39.2%	10.35	9.77	5.6%

CORE SAMPLE DESCRIPTION

MEAN	**54.2%**	**6.1%**
Std Dev	**9.3%**	**0.4%**
Number	**6**	**6**

LAW

LAWGIBB Group Member

METER CALIBRATION FORM

Project Name: MONROE COUNTY CANAL **Date:** 2/17/03

Project Number: _____ **Phase:** _____ **Task:** _____

Dissolved Oxygen (DO) Meter

Meter ID Number: #1 **Time:** 9:00 **AM / PM**

Time allowed for calibration solution to reach saturation:

5 Minutes (should be a minimum of 45 minutes)

Temperature of Calibration Solution and Table Value Used:

Temperature: 23.7 °C Value 98.9 ~~mg/L~~ %

Manufacturer: YSI **Lot:** —

Calibrated By: RB **Expiration Date:** —

Conductivity Meter

Meter ID Number: #1 **Time:** 9:05 **AM / PM**

Standard Used: (Check one):

_____ 100 µmhos/cm ✓ 1,000 µmhos/cm 989 µS 24.3°

_____ 10,000 µmhos/cm _____ 100,000 µmhos/cm

Manufacturer: EAGLE **Lot:** 3267

Calibrated By: RB **Expiration Date:** 8/16/03

Turbidimeter

Meter ID Number: #1 **Time:** 9:10 **AM / PM**

Standard	Reading
0.02 ntu	0.02 ntu
10.00 ntu	9.89 ntu
100 ntu	94.6 ntu
1000 ntu	991 ntu

Manufacturer: HF Scientific

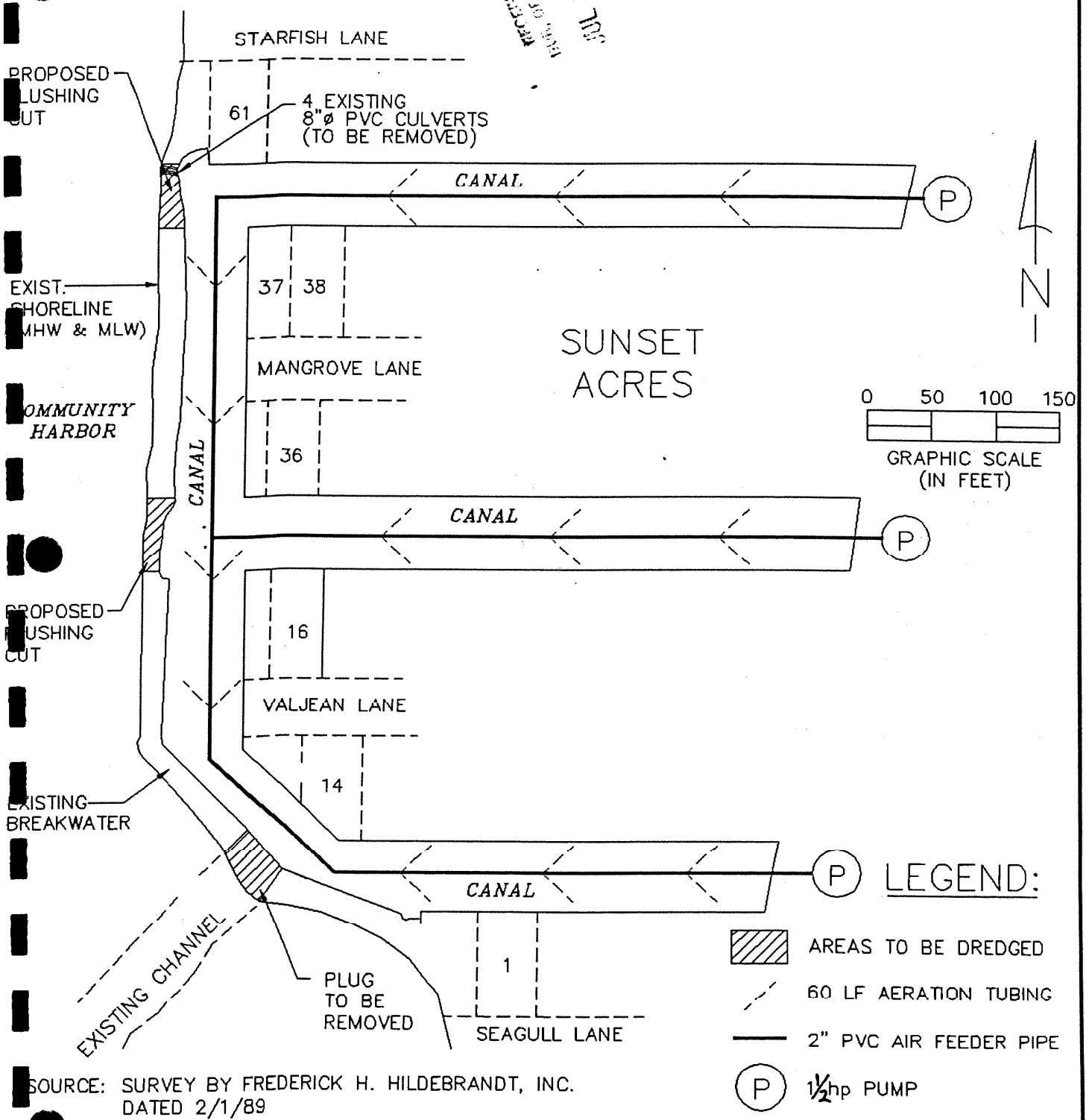
Lot: 20326

Expiration Date: 10/03

Calibrated By: RB

APPENDIX C

AERATION SYSTEM SPECIFICATIONS AND LAYOUT



SOURCE: SURVEY BY FREDERICK H. HILDEBRANDT, INC.
DATED 2/1/89

PURPOSE: AERATION PLAN
DATUM: NGVD
PREPARED BY:
JAS ENGINEERING, INC.
8300 S.W. 88 th STREET, SUITE 302
MIAMI, FLORIDA, 33176

COUNTY OF MONROE STATE OF FLORIDA
APPLICATION BY:
SUNSET ACRES PROPERTY OWNERS ASSOC.
119 STARFISH LANE
TAVERNIER, FLORIDA 33070
SHEET 3 OF 4 DATE: 04/05/89

336

AIR-AQUA, INC.
3210 WEST LAKE AVE.
GLENVIEW, ILL. 60025
PHONE 312-657-9655
FAX 312-657-9658

Mar 9, 1989

TO: ED SWAKON

FROM: NEAL SHAPIRO

RECEIVED
MAR 10 1989
EAS ENGINEERING, INC.

SUBJECT: SUNSET ACRES, FL.

PAGES -3-

****

ED,

IT WAS GOOD TALKING WITH YOU TODAY AND AS WE DISCUSSED, I AM SENDING OUR PROPOSAL FOR THE AERATION SYSTEM.

PLEASE EXCUSE THE DRAWING BUT I THOUGHT I WOULD SIMPLY USE A REVISION OF YOURS TO SAVE TIME.

THE SYSTEM WILL BE INTERCONNECTED AS YOU SUGGESTED AND WE ARE USING THREE ONE HORSEPOWER AIR COMPRESSORS. THE MACHINES WILL BE 115 VOLT SINGLE PHASE SO POWER SHOULD BE EASY TO GET ALMOST ANYWHERE ON SITE.

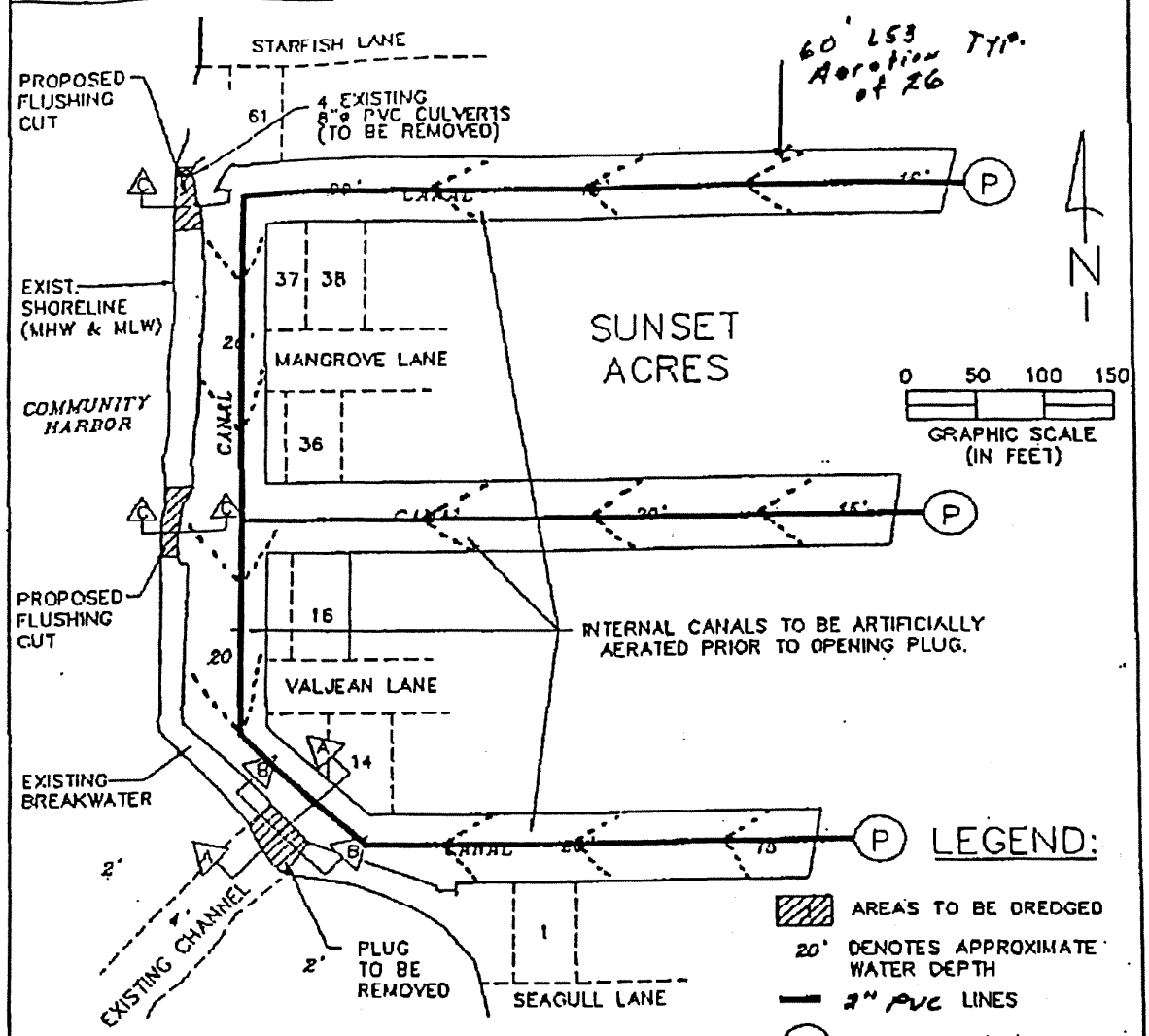
THE CANALS ARE REALLY VERY SMALL IN TERMS OF TOTAL VOLUME (15 MILLION GALLONS) AND THE SYSTEM AS PROPOSED WILL HAVE A TURNOVER TIME OF APPROXIMATELY FOUR HOURS.

IF YOU HAVE ANY QUESTIONS OR IF THERE IS ANY MORE I CAN DO PLEASE FEEL FREE TO CALL.

THANKS,

NEAL

Jim Benser



PURPOSE: SITE PLAN
DATUM: NGVD
PREPARED BY:
EAS ENGINEERING, INC.
10700 S.W. 88 th STREET, SUITE 302
MIAMI, FLORIDA, 33176

COUNTY OF MONROE STATE OF FLORIDA
APPLICATION BY:
SUNSET ACRES PROPERTY OWNERS ASSOC.
119 STARFISH LANE
TAVERNIER, FLORIDA 33070
SHEET 2 OF 3 DATE: 02/10/89

RECEIVED BUR. OF PERM. JUL 14 1989

AIR-AQUA, INC.

AERATION SYSTEMS FOR WATER AND WASTEWATER TREATMENT

Mar 9, 1989

EAS ENGINEERING, INC.
MIAMI, FLA.
BY FAX
ATTN: ED SWAKON

RE: SUNSET ACRES, FLA.

UNDER THE TERMS AND CONDITIONS LISTED BELOW WE ARE PLEASED TO OFFER OUR QUOTATION FOR THE AIR-AQUA LAKE AERATION SYSTEM # 89132 AS FOLLOWS:

3	-	1 H.P. OIL-LESS AIR COMPRESSORS, EACH RATED TO DELIVER 5.5 SCFM AT 20 P.S.I., 100 P.S.I. MAX. MOTORS WILL BE 115/230 VOLT, 60 HERTZ, SINGLE PHASE
3	-	G-14 HEADER AND GAUGE ASSEMBLY
3	-	24 HOUR CLOCK TIMER CONTROL BOX
1560'	-	L53 AIR-AQUA AERATION TUBING
2000'	-	2" PVC AIR FEEDER PIPE
1	-	LOT NECESSARY FITTINGS AND CLAMPS TO INSURE EASE OF INSTALLATION

SELLING PRICE:
THE SELLING PRICE FOR THE EQUIPMENT AS QUOTED IS $7,600.00 ALL PRICES ARE QUOTED F.O.B. GLENVIEW, ILLINOIS, FREIGHT ALLOWED TO JOBSITE. TERMS OF PAYMENT SHALL BE NET 30 DAYS FROM DATE OF SHIPMENT.

WARRANTY:
ALL EQUIPMENT FURNISHED BY AIR-AQUA, INC. CARRIES A WARRANTY OF ONE YEAR FROM DATE OF SHIPMENT, AGAINST DEFECTS IN WORKMANSHIP OR MATERIAL. THE LIABILITY OF AIR-AQUA, INC. IS LIMITED TO THE REPLACEMENT OR REPAIR OF PARTS FOUND TO BE DEFECTIVE. REPLACEMENT SHALL BE MADE F.O.B. GLENVIEW, ILLINOIS. NO OTHER WARRANTY OR LIABILITY IS EITHER EXPRESSED OR IMPLIED.

SUBMITTED BY:

AIR-AQUA, INC.
NEAL SHAPIRO

3210 West Lake Avenue, Glenview, Illinois 60025 • 312/657-9655 • Fax 312/657-9658

RECEIVED JUL 14 1989 BUR. OF PERM.

Piston Air Compressors

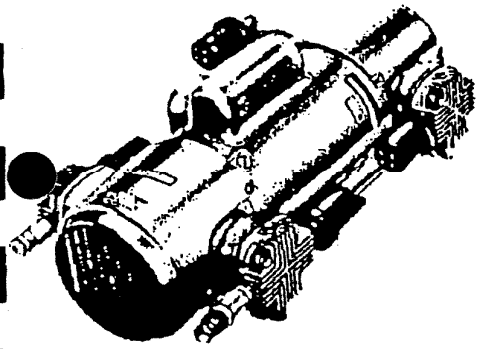
Models 6HDK
6HDC
6HDK-"Q"

Oil-less, Motor Mounted

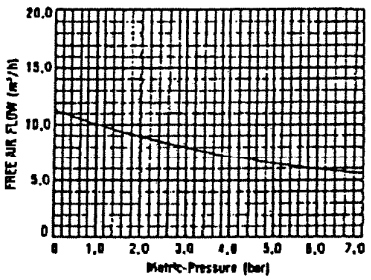
STANDARD LINE

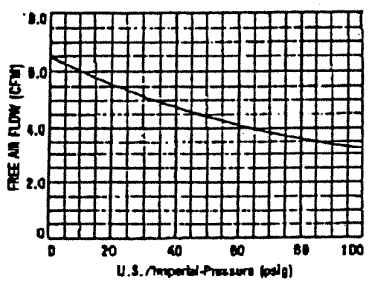
FEATURES
- 4-Cylinder
- Thermal Protection (on single-phase motors)
- Four Filters
- Safety Valve

RECOMMENDED
- Pressure Relief Valve AF720
- Pressure Gauge AF583 or AA806
- Repair Kit K303



Solid black line is for both 50 and 60 cycle performance.

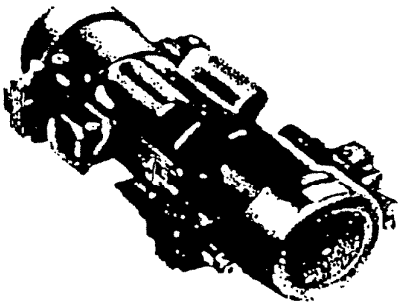




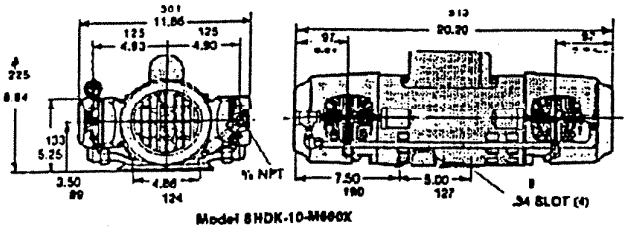
QUIET LINE®

INCLUDES
- Same as standard line plus special head design and sound supression components that reduce sound level by 3 dBa @ 100 psig (measured at 1 meter).

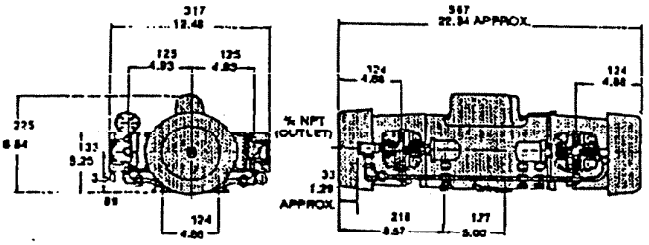
RECOMMENDED
- Repair Kit K373(2)



Note: On all drawings
Metric
U.S./Imperial
(Dimensions for reference only)



Model 6HDK-10-M600X



Model 6HDK-Q10-M600X

Model No.	Motor	Max. RPM 60 Cycle	Max. RPM 50 Cycle	Max. HP	Max. kW	Ship. Wt. lbs.	Ship. Wt. kg
6HDK-10-M602	230/460-60-3	1725		1	0.74	63	28.5
6HDK-10-M600X	115/230-60-1	1725		1	0.74	63	28.5
6HDC-10-M601X	110/220-50-1		1425	1	0.74	63	28.5
6HDC-10-M603	220/380-50-3		1425	1	0.74	63	28.5

Model No.	Motor	Max. RPM 60 Cycle	Max. RPM 50 Cycle	Max. HP	Max. kW	Ship. Wt. lbs.	Ship. Wt. kg
6HDK-Q10-M600X	115/230-60-1	1725		1	0.74	80	36.3

AIR-AQUA, INC.
3210 WEST LAKE AVE.
GLENVIEW, ILL. 60025
PHONE 312-657-9655
FAX 312-657-9658

PACKING LIST

SHIPPED TO:
SUNSET ACRES OWNERS ASSOC.
C/O OSWALDO DE LA VEGA
103 VALGEAN LANE
TAVERNIER, FL 33070

A.A. # 89132 Mar 22, 1989

SKID	NUMBER OF CARTONS	DESCRIPTION	TOTAL QUANTITY	BACKORDER
1	7	L53 AERATION TUBING	1750'	
	3	1-1/2HP AIR COMPRESSOR	3	
	1	G14 HEADER AND GAUGE ASSY.	3	
		24HR CLOCK TIMER	3	
		2" PVC 90 DEG. ELBOW	7	
		2" PVC 45 DEG. ELBOW	2	
		2" PVC TEE	1	
		2" PVC MALE ADAPTOR	3	
		2" PVC THREADED CAP	3	
		NT4 PLASTIC NIPPLES	30	
		P4 PLASTIC PLUGS	30	
		W4 S.S. CRIMP CLAMPS	60	
		CRIMP CLAMP TOOL	1	
		SET OF DRAWINGS	1	
1	BUNDLE	2" PVC HEADER PIPE	7 PCS.	
2	BUNDLE	2" PVC HEADER PIPE	6 PCS.	
3	BUNDLE	2" PVC FEEDER PIPE	8 PCS.	
4	BUNDLE	2" PVC FEEDER PIPE	8 PCS.	
5	BUNDLE	2" PVC FEEDER PIPE	8 PCS.	
6	BUNDLE	2" PVC FEEDER PIPE	8 PCS.	
7	BUNDLE	2" PVC FEEDER PIPE	8 PCS.	
8	BUNDLE	2" PVC FEEDER PIPE	8 PCS.	
9	BUNDLE	2" PVC FEEDER PIPE	8 PCS.	
10	BUNDLE	2" PVC FEEDER PIPE	8 PCS.	
11	BUNDLE	2" PVC FEEDER PIPE	8 PCS.	
12	BUNDLE	2" PVC FEEDER PIPE	8 PCS.	
13	BUNDLE	2" PVC FEEDER PIPE	7 PCS.	

RECEIVED
BUR. OF PERM.
JUL 14 1989

8837

Carlos de la Torre
730 N. W. 107th Ave.,
Suite #214
Miami, Florida, 33172

Gast Manufacturing Corporation
2550 Meadow Brook Rd.,
Benton Harbor, Michigan, 49022

RECEIVED
APR 27 1989
EAS ENGINEERING, INC.

ATT: Lana

RE: SUNSET ACRES
TAVERNIER, FL.

Dear Lana:

As per our recent telephone conversation, we are installing at Sunset Acres an areation system using your 1½ H.P. air compressor pump #78DD-10-M700X.

At the present time, we are trying to work on a maintenance program for that equipment and we need for you to help us in some of these questions.

1). We need the cost of a new pump. We are considering having a spare pump ready to be installed in case of a pump failure.

2). Cost to rebuild one of our pumps.
   a) turn around time.

3). Cost of the repair kit.

4). Cost of air filter.

As I mentioned to you over the telephone the use of these pumps will be in the South Florida area where the temperature averages approximately 85° and humidity in the summer months could reach an average of 70% to 80%. We plan to have the repair kits installed every 4,000 hours of operation as recommended by the maintenance instructions we received.

If you have any other suggestions as to what type of maintenance we should have on that equipment, they would be welcomed.

We also plan to have a crate ready to send any pump that cannot be repaired locally back to your company for rebuilding.

You may fax back your reply at 551-0924.

Yours truly,

Carlos de la Torre

CT:ma

(5 c.

AT TAVERNIER CREEK MARINA
Jordan Marine Industries

May 19, 1989

RECEIVED
MAY 22 1989
EAS ENGINEERING, INC.

E A S Engineers, Inc.
10700 SW 88th St.
Suite #302
Miami, FL 33176

RE: Sunset Acres Home Owners Association

Gentlemen;

Our Service Department has inspected the aeration system at Sunset Acres. The pumps used in that system are G A S T Model #7HDD-10-M-700X.

Our Service Department can overhaul these pumps using the manufacture service kit. This overhaul can be performed at a cost of $42.00 per hour maximum of 3 hours.

We will also make visual inspection of the system every month to make sure the mechanical components are operating properly. This monthly cost will be at $42.00 per hour maximum 1½ hours.

Every 4000 hours as suggested by the manufacture we will inspect each pump to determine if an overhaul is needed. The cost for this service is $42.00.

Sincerely,

William A. Diamond

William A. Diamond

Service Manager

RECEIVED
MAY 22 1989
EAS ENGINEERING, INC.

344