URS 12-Jul-11
O'DONNELL TNM 2.5
Calculated with TNM 2.5

RESULTS: SOUND LEVELS
PROJECT/CONTRACT: FT HAMER/RYE RD
RUN: Val Site 2 PM Run
BARRIER DESIGN: INPUT HEIGHTS

Average pavement type shall be used unless a State highway agency substantiates the use of a different type with approval of FHWA.

ATMOSPHERICS: 68 deg F, 50% RH

Receiver Name	No.	#DUs	Existing LAeq1h	No Barrier LAeq1h		Increase over existing		Type Impact	With Barrier			
				Calculated	Crit'n	Calculated	Crit'n Sub'l Inc		Calculated Noise Reduction LAeq1h	Calculated Goal		Calculated minus Goal
			dBA	dBA	dBA	dB	dB		dBA	dB	dB	dB
	50	6	1	0	56.7	66	56.7 10	----	56.7	0	8	-8

Dwelling Units	# DUs	Noise Reduction Min dB	Avg dB	Max dB	
All Selected	1	0	0	0	
All Impacted	0	0	0	0	
All that meet NR Goal	0	0	0	0	

URS 12-Jul-11
O'DONNELL TNM 2.5

INPUT: TRAFFIC FOR LAeq1
PROJECT/CONTRACT: FT HAMER/RYE RD
RUN: Val Site 2 PM Run

Roadway Name	Points Name	No.	Segment Autos V veh/hr	Autos S mph	MTrucks V veh/hr	MTrucks S mph	HTrucks V veh/hr	HTrucks S mph	Buses V veh/hr	Buses S mph	Motorcycles V veh/hr	Motorcycles S mph	
Roadway1	point1	1	30	35	0	0	0	0	0	0	0	0	0
	point2	2											
Roadway2	point3	3	108	32	0	0	6	29	0	0	0	0	0
	point4	4											

URS 12-Jul-11
O'DONNELL TNM 2.5
Calculated with TNM 2.5

RESULTS: SOUND LEVELS
PROJECT/CONTRACT: FT HAMER/RYE RD
RUN: Val Site 2 PM Run 2
BARRIER DESIGN: INPUT HEIGHTS
ATMOSPHERICS: 68 deg F, 50% RH

Average pavement type shall be used unless a State highway agency substantiates the use of a different type with approval of FHWA.

Receiver Name	No.	#DUs	Existing LAeq1h	No Barrier LAeq1h		Increase over existing		Type Impact	With Barrier Calculated Noise Reduction			
				Calculated	Crit'n	Calculated	Crit'n Sub'l Inc		LAeq1h	Calculated	Goal	Calculated minus Goal
			dBA	dBA	dBA	dB	dB		dBA	dB	dB	dB
	50	6	1	0	57.6	66	57.6 10	----	57.6	0	8	-8

Dwelling Units	# DUs	Noise Reduction Min dB	Avg dB	Max dB	
All Selected	1	0	0	0	
All Impacted	0	0	0	0	
All that meet NR Goal	0	0	0	0	

URS 12-Jul-11
O'DONNELL TNM 2.5

INPUT: TRAFFIC FOR LAeq1h
PROJECT/CONTRACT: FT HAMER/RYE RD
RUN: Val Site 2 PM Run 2

Roadway Name	Points Name	No.	Segment Autos V veh/hr	Autos S mph	MTrucks V veh/hr	MTrucks S mph	HTrucks V veh/hr	HTrucks S mph	Buses V veh/hr	Buses S mph	Motorcycles V veh/hr	Motorcycles S mph	
Roadway1	point1	1	48	35	0	0	0	0	0	0	0	0	
	point2	2											
Roadway2	point3	3	90	34	6	30	6	30	0	0	0	0	
	point4	4											

<<< TABULAR TIME HISTORY REPORT FROM FILE AMB2

Test Location..... Temp 82
Employee Name..... RH 65%
Employee Number... Wind NE 2-3
Department.....
Comment.....

Calibrator Type & Serial #...
Calibrator Calibration Date..

METROSOI db-3100 SN 3250 V1.7
REPORT PRINTED 10/7/10 AT 15:51:35
OF PERIODS: 981 MODE: CONTINUOUS
PERIOD LENGTH: 0:00:10
TIME HISTORY CUTOFF: NONE
Ln(1): 10.00% Ln(2): 90.00%

DATE: 10/7/10

INT	TIME	Lav	energy	Lmx	L1	L2	
Begin Ambient 1 Run 1 Ft Hamer Park							
1	10:48:25	48.4	69183.1	54.5	52	43	Ft Hamer
2	10:48:35	43	19952.6	48.9	46	39	
3	10:48:45	41.5	14125.4	44.9	43	38	
4	10:48:55	38.4	6918.31	39.8	39	38	
5	10:49:05	41.5	14125.4	44.2	43	38	
6	10:49:15	39.2	8317.64	41.5	40	38	
7	10:49:25	41.3	13489.6	43.9	42	40	
8	10:49:35	52.8	190546	58.2	56	41	
9	10:49:45	50.8	120226	54.8	53	47	
10	10:49:55	52.3	169824	58.5	57	47	
11	10:50:05	54.2	263027	57	56	50	
12	10:50:15	56	398107	58.7	58	49	
13	10:50:25	52.9	194984	56.8	56	48	
14	10:50:35	58.4	691831	62.3	61	50	
15	10:50:45	57.5	562341	60.9	60	51	
16	10:50:55	53.4	218776	57.6	57	49	
17	10:51:05	46.9	48977.9	49.7	49	42	
18	10:51:15	48.7	74131	53.7	51	46	
19	10:51:25	51.1	128825	53.6	52	48	
20	10:51:35	47.3	53703.2	52.4	50	42	
21	10:51:45	51.2	131826	53.9	52	48	
22	10:51:55	52.2	165959	56	54	47	
23	10:52:05	47.1	51286.1	51.9	50	42	
24	10:52:15	45.6	36307.8	50.7	48	40	
25	10:52:25	38.3	6760.83	39.3	38	38	
26	10:52:35	38.6	7244.36	39.6	39	38	
27	10:52:45	38.2	6606.93	38.2	38	38	
28	10:52:55	38.2	6606.93	38.2	38	38	
29	10:53:05	38.2	6606.93	38.2	38	38	
30	10:53:15	47.6	57544	51.2	50	38	
31	10:53:25	45.8	38018.9	48	47	43	
32	10:53:35	43.4	21877.6	46.7	45	39	
33	10:53:45	50.7	117490	53.8	53	46	

34	10:53:55	41.2	13182.6	46.8	44	38
35	10:54:05	48.1	64565.4	51.9	51	45
36	10:54:15	49.1	81283.1	52.3	51	43
37	10:54:25	48.6	72443.6	52.7	51	43
38	10:54:35	45.8	38018.9	49.2	48	43
39	10:54:45	50	100000	54.1	53	47
40	10:54:55	52.6	181970	55.4	54	47
41	10:55:05	54.1	257040	56.1	55	52
42	10:55:15	48.7	74131	52.7	50	45
43	10:55:25	47.6	57544	50.8	49	44
44	10:55:35	54.9	309030	60.7	58	43
45	10:55:45	54.3	269153	58	56	47
46	10:55:55	43.1	20417.4	45.8	45	40
47	10:56:05	48.4	69183.1	53.5	52	41
48	10:56:15	49.1	81283.1	54.5	52	43
49	10:56:25	47.6	57544	52.4	51	43
50	10:56:35	47.7	58884.4	50	49	43
51	10:56:45	48.4	69183.1	52	51	46
52	10:56:55	49.4	87096.4	51.4	51	47
53	10:57:05	50.2	104713	53.4	52	45
54	10:57:15	43.3	21379.6	46.8	45	40
55	10:57:25	49.2	83176.4	55.4	54	40
56	10:57:35	53.7	234423	56.9	55	52
57	10:57:45	51.4	138038	56.5	54	47
58	10:57:55	52.1	162181	59.3	56	42
59	10:58:05	50.1	102329	56.3	54	41
60	10:58:15	57.3	537032	61.4	60	50
61	10:58:25	58.4	691831	61.6	60	55
62	10:58:35	56	398107	60.1	59	51
63	10:58:45	54.6	288403	59.2	57	47
64	10:58:55	53.3	213796	58.4	56	47
65	10:59:05	51.9	154882	58.3	55	45
66	10:59:15	51.9	154882	59.2	56	43
67	10:59:25	49.9	97723.7	56.1	54	42
68	10:59:35	49.1	81283.1	57.1	54	42
69	10:59:45	48.3	67608.3	52.4	51	43
70	10:59:55	48.5	70794.6	51.8	50	46
71	11:00:05	43	19952.6	46.4	45	39
72	11:00:15	40.2	10471.3	43.2	43	38
73	11:00:25	41.4	13803.8	43.2	43	39
74	11:00:35	42.6	18197	45.4	44	40
75	11:00:45	44.9	30903	47.2	46	41
76	11:00:55	45	31622.8	46.9	46	43
77	11:01:05	43.3	21379.6	46.1	45	41
78	11:01:15	44.4	27542.3	47.8	47	42
79	11:01:25	40.6	11481.5	42.8	42	39
80	11:01:35	38.8	7585.78	39.6	39	38
81	11:01:45	41.5	14125.4	46.3	44	38
82	11:01:55	38.2	6606.93	38.2	38	38
83	11:02:05	38.9	7762.47	40.6	40	38
84	11:02:15	39.7	9332.54	41.4	40	38
85	11:02:25	39.4	8709.64	42.6	41	38
86	11:02:35	44.7	29512.1	51.9	48	39
87	11:02:45	53.4	218776	58.1	57	38
88	11:02:55	50.7	117490	57.6	56	38

89	11:03:05	38.2	6606.93	38.2	38	38
90	11:03:15	56.1	407380	58.8	58	42
91	11:03:25	48.7	74131	56	53	41
92	11:03:35	41.7	14791.1	45	44	39
93	11:03:45	41.2	13182.6	43.9	43	40
94	11:03:55	40.1	10232.9	42.5	41	39
95	11:04:05	40.7	11749	43	42	39
96	11:04:15	40.9	12302.7	42.6	42	39
97	11:04:25	41.4	13803.8	43.7	43	40
98	11:04:35	39.3	8511.38	41.6	40	38
99	11:04:45	39.8	9549.93	41.1	40	39
100	11:04:55	39.4	8709.64	41.5	40	38
101	11:05:05	46.2	41686.9	51.2	50	40
102	11:05:15	40.7	11749	46.3	43	38
103	11:05:25	38.2	6606.93	38.2	38	38
104	11:05:35	38.2	6606.93	38.2	38	38
105	11:05:45	38.2	6606.93	38.2	38	38
106	11:05:55	38.2	6606.93	38.2	38	38
107	11:06:05	39.3	8511.38	41.4	40	38
108	11:06:15	40.9	12302.7	44.1	42	38
109	11:06:25	40.2	10471.3	43.5	42	38
110	11:06:35	41.8	15135.6	45.6	45	38
111	11:06:45	47.4	54954.1	49.7	49	43
112	11:06:55	46.3	42658	49.4	48	41
113	11:07:05	38.5	7079.46	40.2	39	38
114	11:07:15	45.6	36307.8	51.5	49	38
115	11:07:25	43.7	23442.3	49.6	48	38
116	11:07:35	38.2	6606.93	38.2	38	38
117	11:07:45	38.2	6606.93	38.2	38	38
118	11:07:55	38.2	6606.93	38.2	38	38
119	11:08:05	38.2	6606.93	38.2	38	38
120	11:08:15	38.8	7585.78	40.7	40	38
121	11:08:25	45.6	36307.8	52.4	49	40
122	11:08:35	50.2	104713	55	54	42
123	11:08:45	39.6	9120.11	41.7	40	38
124	11:08:55	39.1	8128.31	42	41	38
125	11:09:05	44.9	30903	49.1	48	40
126	11:09:15	48	63095.7	53.1	52	41
127	11:09:25	55.6	363078	63.4	62	45
128	11:09:35	55.5	354813	61.9	60	48
129	11:09:45	50.3	107152	54.5	53	47
130	11:09:55	48.3	67608.3	51.9	51	43
131	11:10:05	48.9	77624.7	52.6	51	44
132	11:10:15	50.2	104713	54.1	53	46
133	11:10:25	46.4	43651.6	51.1	49	42
134	11:10:35	38.6	7244.36	41.1	39	38
135	11:10:45	38.9	7762.47	41.6	40	38
136	11:10:55	38.8	7585.78	40.9	40	38
137	11:11:05	38.2	6606.93	38.2	38	38
138	11:11:15	38.2	6606.93	38.2	38	38
139	11:11:25	38.9	7762.47	41.4	40	38
140	11:11:35	40.5	11220.2	48.1	42	38
141	11:11:45	54.6	288403	58.3	57	50
142	11:11:55	49.9	97723.7	53.4	52	45
143	11:12:05	46.3	42658	51.7	48	43

144	11:12:15	52.1	162181	55	54	49
145	11:12:25	51.8	151356	54.7	54	50
146	11:12:35	49.5	89125.1	52.1	51	46
147	11:12:45	44.6	28840.3	46.7	46	42
148	11:12:55	48.1	64565.4	51.8	51	43
149	11:13:05	54.2	263027	58.9	58	43
150	11:13:15	53.3	213796	58.4	56	51
151	11:13:25	50.3	107152	53.3	52	47
152	11:13:35	54.6	288403	57.8	57	47
153	11:13:45	47.5	56234.1	52	50	43
154	11:13:55	51	125893	53.9	52	47
155	11:14:05	50.5	112202	54.3	53	45
156	11:14:15	47.9	61659.5	52.6	51	43
157	11:14:25	43.6	22908.7	49.1	47	39
158	11:14:35	39	7943.28	40.5	39	38
159	11:14:45	47.8	60256	53.9	51	40
160	11:14:55	45.9	38904.5	48.4	47	42
161	11:15:05	44.3	26915.3	49.6	47	38
162	11:15:15	39.8	9549.93	41	40	38
163	11:15:25	44.7	29512.1	49.4	48	40
164	11:15:35	43.3	21379.6	46.7	45	41
165	11:15:45	39.6	9120.11	41.9	41	38
166	11:15:55	38.6	7244.36	39.6	39	38
167	11:16:05	38.4	6918.31	39.2	39	38
168	11:16:15	38.2	6606.93	38.2	38	38
169	11:16:25	38.4	6918.31	39.2	39	38
170	11:16:35	38.4	6918.31	40.2	38	38
171	11:16:45	39.9	9772.37	41.5	41	38
172	11:16:55	39.4	8709.64	40	40	38
173	11:17:05	40.3	10715.2	47.9	43	38
174	11:17:15	52.4	173780	55.1	55	43
175	11:17:25	38.3	6760.83	40.2	38	38
176	11:17:35	38.2	6606.93	38.9	38	38
177	11:17:45	38.2	6606.93	38.3	38	38
178	11:17:55	38.3	6760.83	39.4	38	38
179	11:18:05	39.4	8709.64	41.7	41	38
180	11:18:15	47.4	54954.1	54.1	53	38
181	11:18:25	55.6	363078	57.2	57	53
182	11:18:35	51.1	128825	56.3	53	47
183	11:18:45	47.1	51286.1	47.4	47	46
End Ambient 1 Run 1 Ft Hamer Park			49.3	63.4		
Begin Ambient 1 Run 2 Ft Hamer Park						
1	15:57:49	38.7	7413.1	41.8	39	38
2	15:57:59	38.2	6606.93	38.2	38	38
3	15:58:09	38.2	6606.93	38.2	38	38
4	15:58:19	38.2	6606.93	38.2	38	38
5	15:58:29	38.3	6760.83	39	38	38
6	15:58:39	38.9	7762.47	41.9	40	38
7	15:58:49	38.2	6606.93	39	38	38
8	15:58:59	38.2	6606.93	38.3	38	38
9	15:59:09	38.5	7079.46	39.6	39	38
10	15:59:19	38.6	7244.36	40.3	39	38
11	15:59:29	38.4	6918.31	40.1	39	38
12	15:59:39	38.3	6760.83	38.8	38	38
13	15:59:49	38.9	7762.47	41.3	40	38

14	15:59:59	39.1	8128.31	42.9	40	38
15	16:00:09	43.9	24547.1	57.3	41	38
16	16:00:19	47	50118.7	56.3	52	38
17	16:00:29	38.5	7079.46	39.1	39	38
18	16:00:39	47.3	53703.2	56	52	38
19	16:00:49	42.8	19054.6	47	46	38
20	16:00:59	54	251189	57.4	56	48
21	16:01:09	48.7	74131	53	51	46
22	16:01:19	56.7	467735	60.4	60	50
23	16:01:29	48.4	69183.1	49.6	49	47
24	16:01:39	45.5	35481.3	48.7	47	42
25	16:01:49	46	39810.7	52.4	49	42
26	16:01:59	44	25118.9	50.9	47	40
27	16:02:09	41.5	14125.4	46.6	43	40
28	16:02:19	41.7	14791.1	45.2	45	39
29	16:02:29	42.7	18620.9	45.7	44	41
30	16:02:39	43.3	21379.6	45.3	44	41
31	16:02:49	47.9	61659.5	51.3	50	42
32	16:02:59	53.2	208930	55.1	55	49
33	16:03:09	43.9	24547.1	47.8	46	40
34	16:03:19	41.3	13489.6	42.8	42	40
35	16:03:29	43.3	21379.6	44.3	44	42
36	16:03:39	48.3	67608.3	54.2	51	44
37	16:03:49	54.3	269153	56.5	56	52
38	16:03:59	48.3	67608.3	51.7	50	45
39	16:04:09	43.7	23442.3	45.4	45	42
40	16:04:19	41.9	15488.2	42.5	42	41
41	16:04:29	41.1	12882.5	41.7	41	40
42	16:04:39	41	12589.3	41.4	41	40
43	16:04:49	41.4	13803.8	41.7	41	41
44	16:04:59	42.4	17378	43.1	42	41
45	16:05:09	44	25118.9	46.7	45	43
46	16:05:19	43.9	24547.1	46.7	46	41
47	16:05:29	44.3	26915.3	45	44	43
48	16:05:39	42.9	19498.4	44.3	44	41
49	16:05:49	41.9	15488.2	42.2	42	41
50	16:05:59	41.1	12882.5	41.8	41	40
51	16:06:09	41	12589.3	42	41	40
52	16:06:19	42.7	18620.9	43.6	43	42
53	16:06:29	51	125893	54.2	53	44
54	16:06:39	46.1	40738	47.8	47	44
55	16:06:49	53.3	213796	58.7	57	48
56	16:06:59	56.5	446684	59.7	59	52
57	16:07:09	48.3	67608.3	51.1	50	45
58	16:07:19	44.9	30903	49.7	47	43
59	16:07:29	42.1	16218.1	42.7	42	41
60	16:07:39	41	12589.3	41.7	41	40
61	16:07:49	40.7	11749	41.1	41	40
62	16:07:59	40.3	10715.2	40.5	40	40
63	16:08:09	40.3	10715.2	40.6	40	40
64	16:08:19	40.5	11220.2	41.5	41	40
65	16:08:29	39.9	9772.37	40.3	40	39
66	16:08:39	40.2	10471.3	40.5	40	40
67	16:08:49	43.6	22908.7	49.8	47	40
68	16:08:59	40.4	10964.8	41	40	40

69	16:09:09	41.9	15488.2	43.9	43	40
70	16:09:19	40.8	12022.6	41.9	41	40
71	16:09:29	45.9	38904.5	52.3	50	40
72	16:09:39	48.3	67608.3	52.4	51	45
73	16:09:49	51	125893	52.7	52	48
74	16:09:59	51.3	134896	52.1	52	50
75	16:10:09	53.6	229087	57	56	50
76	16:10:19	54.2	263027	58.2	57	51
77	16:10:29	53.9	245471	57.1	56	51
78	16:10:39	50.2	104713	51.6	51	47
79	16:10:49	45.8	38018.9	49.5	48	43
80	16:10:59	46.1	40738	50.8	48	43
81	16:11:09	45.3	33884.4	49.6	48	42
82	16:11:19	44	25118.9	45	44	43
83	16:11:29	46.3	42658	48.3	47	44
84	16:11:39	45.2	33113.1	52.5	49	41
85	16:11:49	45.7	37153.5	53	49	41
86	16:11:59	41.3	13489.6	42.6	41	41
87	16:12:09	41.8	15135.6	42.2	42	41
88	16:12:19	42.1	16218.1	42.8	42	41
89	16:12:29	41.4	13803.8	41.8	41	41
90	16:12:39	42.2	16595.9	43	42	41
91	16:12:49	41.6	14454.4	42.7	42	40
92	16:12:59	41.1	12882.5	41.6	41	40
93	16:13:09	41.8	15135.6	43.5	43	41
94	16:13:19	53.3	213796	58.7	57	45
95	16:13:29	51.7	147911	56.9	54	48
96	16:13:39	53.8	239883	56.5	56	51
97	16:13:49	48.8	75857.8	51.8	50	45
98	16:13:59	48.9	77624.7	51.6	51	44
99	16:14:09	51.6	144544	54	53	49
100	16:14:19	46.4	43651.6	48.2	48	45
101	16:14:29	44.2	26302.7	45.6	45	42
102	16:14:39	41.6	14454.4	43.4	42	40
103	16:14:49	40.9	12302.7	41.9	41	40
104	16:14:59	41.5	14125.4	42.4	42	41
105	16:15:09	41.4	13803.8	42.2	41	41
106	16:15:19	41.9	15488.2	44	43	41
107	16:15:29	41.5	14125.4	42.7	42	41
108	16:15:39	41.6	14454.4	43.8	42	40
109	16:15:49	42.2	16595.9	43.7	42	41
110	16:15:59	43.6	22908.7	48.4	46	41
111	16:16:09	43.2	20893	45.6	44	42
112	16:16:19	42.2	16595.9	45.1	44	40
113	16:16:29	41.3	13489.6	41.8	41	41
114	16:16:39	40.8	12022.6	41.2	41	40
115	16:16:49	40.6	11481.5	40.9	40	40
116	16:16:59	40.5	11220.2	41	40	40
117	16:17:09	41.5	14125.4	43.7	42	40
118	16:17:19	49.5	89125.1	54.5	52	43
119	16:17:29	48.7	74131	51.3	50	44
120	16:17:39	44.6	28840.3	46.8	45	43
121	16:17:49	43.6	22908.7	46.7	45	40
122	16:17:59	53.1	204174	62.4	58	41
123	16:18:09	40.9	12302.7	42.2	41	40

124	16:18:19	40.5	11220.2	41	40	40
125	16:18:29	42.1	16218.1	47.4	44	40
126	16:18:39	40.8	12022.6	43.3	41	40
127	16:18:49	50.8	120226	54.8	53	44
128	16:18:59	52.2	165959	55	54	49
129	16:19:09	48.6	72443.6	51	50	46
130	16:19:19	51.4	138038	55.9	55	46
131	16:19:29	48.9	77624.7	53.9	49	47
132	16:19:39	48.8	75857.8	53.8	50	47
133	16:19:49	51.2	131826	53.4	53	47
134	16:19:59	50.2	104713	52.7	52	47
135	16:20:09	44.3	26915.3	47.4	46	42
136	16:20:19	43.1	20417.4	45.4	44	41
137	16:20:29	41.4	13803.8	43.1	42	40
138	16:20:39	42	15848.9	44.6	43	41
139	16:20:49	40.2	10471.3	40.9	40	39
140	16:20:59	47.1	51286.1	59.9	40	40
141	16:21:09	48.6	72443.6	58	54	39
142	16:21:19	40.6	11481.5	41.7	41	40
143	16:21:29	40.2	10471.3	41	40	39
144	16:21:39	42.2	16595.9	48.1	45	39
145	16:21:49	41.9	15488.2	45.8	43	40
146	16:21:59	49.3	85113.8	53.5	52	42
147	16:22:09	46.8	47863	47.2	47	46
148	16:22:19	46.8	47863	47.1	47	46
149	16:22:29	46.7	46773.5	47	46	46
150	16:22:39	46.4	43651.6	46.6	46	46
151	16:22:49	46	39810.7	46.6	46	45
152	16:22:59	45.9	38904.5	47.8	47	45
153	16:23:09	55.3	338844	62.5	61	44
154	16:23:19	42.4	17378	43.3	42	42
155	16:23:29	42.7	18620.9	43.1	43	42
156	16:23:39	42.2	16595.9	42.5	42	41
157	16:23:49	42.4	17378	42.8	42	42
158	16:23:59	42.5	17782.8	43	42	42
159	16:24:09	43.8	23988.3	45.4	45	42
160	16:24:19	44.8	30199.5	45.8	45	43
161	16:24:29	42.9	19498.4	43.8	43	42
162	16:24:39	43.3	21379.6	45.3	45	42
163	16:24:49	43.4	21877.6	46.5	45	42
164	16:24:59	43.8	23988.3	45.9	45	42
165	16:25:09	45	31622.8	48	46	43
166	16:25:19	47.2	52480.7	47.8	47	46
167	16:25:29	45.2	33113.1	49.8	47	43
168	16:25:39	44.8	30199.5	50.4	48	42
169	16:25:49	42.5	17782.8	43.4	43	42
170	16:25:59	42.5	17782.8	43.4	43	42
171	16:26:09	44.3	26915.3	47.8	46	43
172	16:26:19	42.8	19054.6	43.5	43	42
173	16:26:29	42.4	17378	42.7	42	42
174	16:26:39	45.6	36307.8	48.8	48	42
175	16:26:49	47.2	52480.7	51.8	49	45
176	16:26:59	43.6	22908.7	46.2	44	42
177	16:27:09	43.6	22908.7	47.6	45	42
178	16:27:19	42.5	17782.8	47.8	43	41

179	16:27:29	44.3	26915.3	47.7	46	42
End Ambient 1 Run 1 Ft Hamer Park				47.1	62.5		

<<< TABULAR TIME HISTORY REPORT FROM FILE AMB2

Test Location: northeast of Winding Stream Way Temp 82
Employee Name: BO, VAS RH 65%
Employee Number... Wind NE 2-3
Department.....
Comment.....

Calibrator Type Metrosonics cl-304 Serial #...
Calibrator Calibration Date..

METROSOI db-3100 SN 3250 V1.7
REPORT PRINTED 10/7/10 AT 15:51:35
OF PERIODS: 981 MODE: CONTINUOUS
PERIOD LENGTH: 0:00:10
TIME HISTORY CUTOFF: NONE
Ln(1): 10.00% Ln(2): 90.00%

DATE: 10/7/10

INT	TIME	Lav	energy	Lmx	L1	L2	
Begin Ambient 2 Run 1 Upper Manatee River Rd							
187	12:06:17	43.3	21379.621	46.8	42	40	UMRR
188	12:06:27	48.2	66069.345	56.7	52	41	
189	12:06:37	41.8	15135.612	45	43	40	
190	12:06:47	41.1	12882.496	41.6	41	40	
191	12:06:57	41.4	13803.843	42.3	41	41	
192	12:07:07	40.8	12022.644	41.5	41	40	
193	12:07:17	40.6	11481.536	42.3	41	39	
194	12:07:27	51.3	134896.29	61.1	57	41	
195	12:07:37	45.3	33884.416	52.9	49	41	
196	12:07:47	42.6	18197.009	46.1	44	41	
197	12:07:57	43.5	22387.211	47.5	45	41	
198	12:08:07	42.6	18197.009	44.4	43	41	
199	12:08:17	42.5	17782.794	44.4	43	41	
200	12:08:27	41.7	14791.084	43.5	42	40	
201	12:08:37	41	12589.254	43.2	42	39	
202	12:08:47	41.1	12882.496	44.9	42	39	
203	12:08:57	40.9	12302.688	44.8	43	38	
204	12:09:07	40.5	11220.185	45.2	42	38	
205	12:09:17	40.1	10232.93	45	42	38	
206	12:09:27	40	10000	43.8	42	38	
207	12:09:37	39.8	9549.9259	43.6	41	38	
208	12:09:47	40.3	10715.193	44.6	42	38	
209	12:09:57	39.5	8912.5094	43.2	41	38	
210	12:10:07	38.7	7413.1024	41.9	39	38	
211	12:10:17	38.6	7244.3596	41.5	39	38	
212	12:10:27	40.4	10964.782	46.4	42	38	
213	12:10:37	38.5	7079.4578	40.6	39	38	
214	12:10:47	39.5	8912.5094	42.7	41	38	
215	12:10:57	39.8	9549.9259	41.9	41	38	
216	12:11:07	38.3	6760.8298	39.6	38	38	
217	12:11:17	39.1	8128.3052	42.1	39	38	
218	12:11:27	40.4	10964.782	43.3	42	38	
219	12:11:37	39.4	8709.6359	40.2	40	38	
220	12:11:47	39.1	8128.3052	40.3	40	38	

221	12:11:57	38.2	6606.9345	38.2	38	38
222	12:12:07	38.7	7413.1024	43.5	39	38
223	12:12:17	44	25118.864	48.2	46	41
224	12:12:27	54.9	309029.54	64.5	60	41
225	12:12:37	42.1	16218.101	45.5	43	40
226	12:12:47	43.4	21877.616	46.4	45	38
227	12:12:57	38.3	6760.8298	39.4	38	38
228	12:13:07	38.3	6760.8298	39.5	38	38
229	12:13:17	38.7	7413.1024	40.6	40	38
230	12:13:27	40.3	10715.193	44.1	42	38
231	12:13:37	39.6	9120.1084	42	40	38
232	12:13:47	40.4	10964.782	41.9	41	39
233	12:13:57	40.2	10471.285	42.1	41	39
234	12:14:07	40.1	10232.93	40.8	40	39
235	12:14:17	39.5	8912.5094	41.3	40	38
236	12:14:27	40.1	10232.93	41.1	40	39
237	12:14:37	40.3	10715.193	42	41	39
238	12:14:47	39.9	9772.3722	41.7	41	38
239	12:14:57	41.1	12882.496	42.5	42	40
240	12:15:07	42	15848.932	43.6	42	41
241	12:15:17	42.7	18620.871	44.9	44	41
242	12:15:27	47	50118.723	48.6	47	45
243	12:15:37	49.6	91201.084	51.2	50	47
244	12:15:47	47.3	53703.18	47.9	47	46
245	12:15:57	47.2	52480.746	48.2	47	46
246	12:16:07	47.8	60255.959	49.4	48	47
247	12:16:17	48.4	69183.097	50.3	49	47
248	12:16:27	48.1	64565.423	48.6	48	47
249	12:16:37	47.7	58884.366	47.9	47	47
250	12:16:47	47.4	54954.087	48	47	47
251	12:16:57	48	63095.734	51.1	49	47
252	12:17:07	48.6	72443.596	51.7	50	46
253	12:17:17	48.6	72443.596	50.7	50	47
254	12:17:27	47.9	61659.5	50.1	48	47
255	12:17:37	48.3	67608.298	49.8	49	47
256	12:17:47	50.6	114815.36	54.3	53	47
257	12:17:57	56.6	457088.19	57.9	57	55
258	12:18:07	53.4	218776.16	55.8	55	50
259	12:18:17	46.8	47863.009	48.8	47	45
260	12:18:27	42.5	17782.794	44.6	44	40
261	12:18:37	41.8	15135.612	44.2	43	40
262	12:18:47	39.3	8511.3804	41.2	40	38
263	12:18:57	38.9	7762.4712	41	40	38
264	12:19:07	38.5	7079.4578	39.6	39	38
265	12:19:17	40.2	10471.285	46.1	42	38
266	12:19:27	50.9	123026.88	56.4	55	41
267	12:19:37	46.5	44668.359	51.3	50	39
268	12:19:47	39.7	9332.543	41.5	40	38
269	12:19:57	38.2	6606.9345	38.8	38	38
270	12:20:07	38.2	6606.9345	38.2	38	38
271	12:20:17	38.2	6606.9345	38.2	38	38
272	12:20:27	38.5	7079.4578	40.2	39	38
273	12:20:37	39.8	9549.9259	41.1	41	38
274	12:20:47	41.3	13489.629	45.1	43	40
275	12:20:57	38.2	6606.9345	38.6	38	38
276	12:21:07	38.2	6606.9345	38.2	38	38

277	12:21:17	39.4	8709.6359	41.5	41	38
278	12:21:27	38.3	6760.8298	39	38	38
279	12:21:37	38.2	6606.9345	38.2	38	38
280	12:21:47	38.2	6606.9345	38.2	38	38
281	12:21:57	38.2	6606.9345	38.6	38	38
282	12:22:07	38.5	7079.4578	39.8	39	38
283	12:22:17	41.3	13489.629	45.4	43	39
284	12:22:27	40.5	11220.185	43.5	41	38
285	12:22:37	38.4	6918.3097	40.6	39	38
286	12:22:47	39.7	9332.543	43.2	42	38
287	12:22:57	38.2	6606.9345	38.2	38	38
288	12:23:07	38.2	6606.9345	38.4	38	38
289	12:23:17	38.4	6918.3097	39.4	39	38
290	12:23:27	38.2	6606.9345	38.2	38	38
291	12:23:37	38.2	6606.9345	38.2	38	38
292	12:23:47	38.2	6606.9345	38.2	38	38
293	12:23:57	38.2	6606.9345	38.2	38	38
294	12:24:07	38.2	6606.9345	38.2	38	38
295	12:24:17	38.2	6606.9345	38.2	38	38
296	12:24:27	38.2	6606.9345	38.2	38	38
297	12:24:37	38.2	6606.9345	38.2	38	38
298	12:24:47	38.2	6606.9345	38.2	38	38
299	12:24:57	38.2	6606.9345	38.2	38	38
300	12:25:07	38.2	6606.9345	38.2	38	38
301	12:25:17	38.2	6606.9345	38.2	38	38
302	12:25:27	38.2	6606.9345	38.2	38	38
303	12:25:37	38.2	6606.9345	38.6	38	38
304	12:25:47	46.9	48977.882	51.1	50	39
305	12:25:57	45.1	32359.366	48.9	46	43
306	12:26:07	42.3	16982.437	43.1	42	41
307	12:26:17	39.9	9772.3722	41.6	41	38
308	12:26:27	40.1	10232.93	45.4	43	38
309	12:26:37	38.2	6606.9345	38.2	38	38
310	12:26:47	38.2	6606.9345	38.2	38	38
311	12:26:57	38.6	7244.3596	39.5	39	38
312	12:27:07	38.2	6606.9345	38.2	38	38
313	12:27:17	38.4	6918.3097	39.6	39	38
314	12:27:27	39.7	9332.543	42.7	41	38
315	12:27:37	39.1	8128.3052	41.7	40	38
316	12:27:47	38.8	7585.7758	41	39	38
317	12:27:57	40.5	11220.185	42.5	41	39
318	12:28:07	47.2	52480.746	55	51	41
319	12:28:17	44	25118.864	47.3	45	41
320	12:28:27	42.9	19498.446	45.2	44	40
321	12:28:37	41.6	14454.398	44.5	43	39
322	12:28:47	41.6	14454.398	46.7	45	38
323	12:28:57	47.6	57543.994	51.9	49	44
324	12:29:07	43.9	24547.089	47.3	46	40
325	12:29:17	42.1	16218.101	45.8	44	39
326	12:29:27	43.5	22387.211	47.4	46	40
327	12:29:37	44.7	29512.092	49.1	47	40
328	12:29:47	43.8	23988.329	47.8	46	39
329	12:29:57	42.8	19054.607	47	46	38
330	12:30:07	40.7	11748.976	45.3	43	38
331	12:30:17	41.2	13182.567	45.1	43	38
332	12:30:27	42.2	16595.869	46.5	44	39

333	12:30:37	41.8	15135.612	45.7	44	38
334	12:30:47	48.5	70794.578	52.7	52	43
335	12:30:57	48.2	66069.345	52.1	51	45
336	12:31:07	64.5	2818382.9	67.5	67	48
337	12:31:17	56.9	489778.82	65.4	62	42
338	12:31:27	43.1	20417.379	46.5	45	40
339	12:31:37	41.3	13489.629	46.7	43	38
340	12:31:47	41.7	14791.084	47.2	45	38
341	12:31:57	42.8	19054.607	46.7	45	39
342	12:32:07	41.4	13803.843	44.4	43	38
343	12:32:17	38.3	6760.8298	39.6	38	38
344	12:32:27	38.2	6606.9345	38.2	38	38
345	12:32:37	38.4	6918.3097	40.2	38	38
346	12:32:47	40	10000	45.6	43	38
347	12:32:57	43.6	22908.677	49.6	47	38
348	12:33:07	43.3	21379.621	49.5	46	38
349	12:33:17	40.4	10964.782	44.7	42	38
350	12:33:27	39.9	9772.3722	45.3	42	38
351	12:33:37	40.3	10715.193	44.5	42	38
352	12:33:47	41	12589.254	44.8	43	38
353	12:33:57	40.2	10471.285	44.2	42	38
354	12:34:07	40.9	12302.688	45	43	38
355	12:34:17	41.7	14791.084	43.2	43	38
356	12:34:27	43.5	22387.211	46.2	45	39
357	12:34:37	39.3	8511.3804	44.6	40	38
358	12:34:47	40.8	12022.644	44.6	43	38
359	12:34:57	39.3	8511.3804	42.8	41	38
360	12:35:07	41.1	12882.496	43.4	43	38
361	12:35:17	40.8	12022.644	43.2	42	38
362	12:35:27	39.2	8317.6377	42	41	38
363	12:35:37	39	7943.2823	40.2	39	38
364	12:35:47	40.4	10964.782	42.5	42	39
365	12:35:57	42.1	16218.101	44.4	43	39
366	12:36:07	40	10000	42	41	38
End Ambient 2 Run 1 Upper Manatee River R			46.3	67.5		
Begin Ambient 2 Run 2 Upper Manatee River Rd						
367	12:36:17	42	15848.932	43.4	42	40
368	12:36:27	47.3	53703.18	50.4	49	43
369	12:36:37	44.4	27542.287	47.9	46	42
370	12:36:47	42.7	18620.871	44.7	44	41
371	12:36:57	42	15848.932	46	44	39
372	12:37:07	42.5	17782.794	45.6	44	40
373	12:37:17	40.8	12022.644	44.2	43	38
374	12:37:27	40.1	10232.93	41.5	41	38
375	12:37:37	40.4	10964.782	42.8	42	39
376	12:37:47	39.2	8317.6377	40.4	39	38
377	12:37:57	40.8	12022.644	41.9	41	39
378	12:38:07	39.8	9549.9259	41.5	40	38
379	12:38:17	40.1	10232.93	41.8	41	39
380	12:38:27	40.1	10232.93	40.9	40	39
381	12:38:37	38.2	6606.9345	38.8	38	38
382	12:38:47	38.2	6606.9345	38.3	38	38
383	12:38:57	39.7	9332.543	40.8	40	38
384	12:39:07	38.6	7244.3596	41.6	39	38
385	12:39:17	43.2	20892.961	44.2	44	41
386	12:39:27	40.6	11481.536	42.8	41	39

387	12:39:37	40.3	10715.193	44.3	42	38
388	12:39:47	38.2	6606.9345	38.6	38	38
389	12:39:57	38.2	6606.9345	38.2	38	38
390	12:40:07	38.2	6606.9345	38.4	38	38
391	12:40:17	39	7943.2823	40	39	38
392	12:40:27	38.2	6606.9345	38.9	38	38
393	12:40:37	40.1	10232.93	41.4	41	38
394	12:40:47	39.9	9772.3722	41.7	41	38
395	12:40:57	38.6	7244.3596	39.7	39	38
396	12:41:07	38.2	6606.9345	38.6	38	38
397	12:41:17	38.2	6606.9345	38.2	38	38
398	12:41:27	38.2	6606.9345	38.5	38	38
399	12:41:37	38.9	7762.4712	41.5	40	38
400	12:41:47	39.3	8511.3804	40.7	40	38
401	12:41:57	40.2	10471.285	43.2	41	38
402	12:42:07	41.1	12882.496	45.2	44	38
403	12:42:17	38.6	7244.3596	41.5	39	38
404	12:42:27	40.4	10964.782	42.8	42	38
405	12:42:37	38.3	6760.8298	39.4	38	38
406	12:42:47	38.2	6606.9345	38.2	38	38
407	12:42:57	38.2	6606.9345	39.3	38	38
408	12:43:07	38.5	7079.4578	40	39	38
409	12:43:17	38.6	7244.3596	41.3	39	38
410	12:43:27	38.4	6918.3097	40.7	38	38
411	12:43:37	38.5	7079.4578	40.5	39	38
412	12:43:47	38.8	7585.7758	40.3	39	38
413	12:43:57	42.3	16982.437	47.1	46	38
414	12:44:07	39.2	8317.6377	40.2	39	38
415	12:44:17	39	7943.2823	42.8	41	38
416	12:44:27	39	7943.2823	40.2	39	38
417	12:44:37	38.5	7079.4578	39.8	39	38
418	12:44:47	38.2	6606.9345	38.3	38	38
419	12:44:57	38.2	6606.9345	38.2	38	38
420	12:45:07	39.1	8128.3052	43.8	42	38
421	12:45:17	38.6	7244.3596	42.1	39	38
422	12:45:27	39	7943.2823	42.7	40	38
423	12:45:37	38.6	7244.3596	39.1	39	38
424	12:45:47	38.2	6606.9345	38.2	38	38
425	12:45:57	38.7	7413.1024	42.4	39	38
426	12:46:07	42.5	17782.794	44.6	44	39
427	12:46:17	49.4	87096.359	52.7	52	42
428	12:46:27	40.1	10232.93	41.2	41	38
429	12:46:37	38.2	6606.9345	38.4	38	38
430	12:46:47	38.2	6606.9345	38.5	38	38
431	12:46:57	42	15848.932	46.2	44	38
432	12:47:07	47.4	54954.087	52	51	40
433	12:47:17	43.8	23988.329	46.5	45	41
434	12:47:27	38.3	6760.8298	40.5	38	38
435	12:47:37	41.2	13182.567	45	43	38
436	12:47:47	44.7	29512.092	49.5	46	41
437	12:47:57	42.1	16218.101	45.4	44	38
438	12:48:07	40	10000	42.7	41	38
439	12:48:17	38.7	7413.1024	40.4	39	38
440	12:48:27	43.8	23988.329	46.6	45	40
441	12:48:37	43.3	21379.621	45.8	45	39
442	12:48:47	42.4	17378.008	46.4	44	39

443	12:48:57	39.4	8709.6359	42.8	41	38
444	12:49:07	43.4	21877.616	46.9	45	39
445	12:49:17	46.2	41686.938	50.1	48	44
446	12:49:27	43.4	21877.616	45.1	44	42
447	12:49:37	43.6	22908.677	45.8	45	41
448	12:49:47	43	19952.623	45.8	44	41
449	12:49:57	44.3	26915.348	48.2	46	41
450	12:50:07	39.9	9772.3722	43.5	42	38
451	12:50:17	40.5	11220.185	44.6	43	38
452	12:50:27	40.3	10715.193	42.5	41	38
453	12:50:37	44.2	26302.68	47.3	46	40
454	12:50:47	42.3	16982.437	43.9	43	41
455	12:50:57	40.6	11481.536	45.4	42	38
456	12:51:07	43.5	22387.211	46.1	45	41
457	12:51:17	47.1	51286.138	50.4	49	44
458	12:51:27	41.9	15488.166	44.2	43	40
459	12:51:37	41.1	12882.496	42.8	42	39
460	12:51:47	44.9	30902.954	49	47	42
461	12:51:57	43.6	22908.677	50.8	48	39
462	12:52:07	43.3	21379.621	45.2	44	41
463	12:52:17	46.6	45708.819	48.2	47	45
464	12:52:27	45.4	34673.685	48.7	47	42
465	12:52:37	43.3	21379.621	45.6	44	41
466	12:52:47	41.1	12882.496	43.5	42	39
467	12:52:57	43.2	20892.961	45.5	44	39
468	12:53:07	42.5	17782.794	45.5	44	39
469	12:53:17	43.7	23442.288	45.8	44	42
470	12:53:27	46.8	47863.009	53.6	49	40
471	12:53:37	46.1	40738.028	54.2	51	38
472	12:53:47	40.2	10471.285	46.6	42	38
473	12:53:57	45.5	35481.339	47.9	47	42
474	12:54:07	44.4	27542.287	46.5	45	42
475	12:54:17	44.6	28840.315	47.3	45	43
476	12:54:27	44.6	28840.315	46.6	45	43
477	12:54:37	44.4	27542.287	46.8	45	43
478	12:54:47	46	39810.717	47.2	46	45
479	12:54:57	48.1	64565.423	50	49	47
480	12:55:07	47.9	61659.5	49.6	49	46
481	12:55:17	43.5	22387.211	46.2	45	41
482	12:55:27	47.3	53703.18	52.4	51	41
483	12:55:37	48.4	69183.097	52.1	51	44
484	12:55:47	45.7	37153.523	48.9	47	43
485	12:55:57	42.5	17782.794	46.8	45	39
486	12:56:07	45.6	36307.805	49.6	49	38
487	12:56:17	42.5	17782.794	45.9	44	39
488	12:56:27	44.6	28840.315	47.8	46	41
489	12:56:37	43	19952.623	46.4	45	40
490	12:56:47	45.6	36307.805	47.7	46	44
491	12:56:57	45.7	37153.523	50.5	49	42
492	12:57:07	48.8	75857.758	53.3	52	41
493	12:57:17	41.8	15135.612	46.6	44	38
494	12:57:27	39.1	8128.3052	39.9	39	38
495	12:57:37	40.7	11748.976	43.3	42	38
496	12:57:47	38.3	6760.8298	38.8	38	38
497	12:57:57	38.2	6606.9345	38.2	38	38
498	12:58:07	39.7	9332.543	43.3	42	38

499	12:58:17	38.4	6918.3097	40.3	39	38
500	12:58:27	38.6	7244.3596	40.7	40	38
501	12:58:37	39	7943.2823	41.1	40	38
502	12:58:47	39.6	9120.1084	40.9	40	38
503	12:58:57	40.9	12302.688	44.5	44	38
504	12:59:07	43.3	21379.621	45.9	45	40
505	12:59:17	41.7	14791.084	46	44	39
506	12:59:27	42.8	19054.607	45.3	44	39
507	12:59:37	42.5	17782.794	44.9	44	41
508	12:59:47	43.8	23988.329	45.4	45	42
509	12:59:57	43.9	24547.089	46.5	45	41
510	13:00:07	43.7	23442.288	46.2	45	41
511	13:00:17	41.2	13182.567	42.5	42	40
512	13:00:27	40.8	12022.644	42.6	42	39
513	13:00:37	40.2	10471.285	40.9	40	39
514	13:00:47	40.5	11220.185	42.1	41	39
515	13:00:57	43.7	23442.288	50.2	47	40
516	13:01:07	40.9	12302.688	42	41	40
517	13:01:17	45.3	33884.416	49.4	47	42
518	13:01:27	41.4	13803.843	43.9	43	40
519	13:01:37	45.9	38904.514	53.1	49	40
520	13:01:47	44.8	30199.517	49.1	46	41
521	13:01:57	44.5	28183.829	47.5	46	41
522	13:02:07	45.9	38904.514	47.8	47	43
523	13:02:17	48.5	70794.578	49.5	49	47
524	13:02:27	51.8	151356.12	53.7	53	49
525	13:02:37	55.8	380189.4	57.5	57	53
526	13:02:47	56	398107.17	58.3	58	53
527	13:02:57	53.2	208929.61	54.5	54	51
528	13:03:07	51.7	147910.84	52.7	52	50
529	13:03:17	51	125892.54	52.3	51	50
530	13:03:27	50.4	109647.82	50.8	50	50
531	13:03:37	50.6	114815.36	51.4	50	50
532	13:03:47	50.9	123026.88	51.6	51	50
533	13:03:57	51.1	128824.96	51.8	51	50
534	13:04:07	51.4	138038.43	51.9	51	51
535	13:04:17	53.8	239883.29	55.9	55	51
536	13:04:27	50.6	114815.36	52.9	51	49
537	13:04:37	49.4	87096.359	51.1	50	46
538	13:04:47	43.8	23988.329	46.6	45	39
539	13:04:57	38.4	6918.3097	39.2	39	38
540	13:05:07	38.2	6606.9345	38.2	38	38
541	13:05:17	38.2	6606.9345	38.2	38	38
542	13:05:27	45	31622.777	47.5	46	38
543	13:05:37	46.1	40738.028	49.2	47	43
544	13:05:47	46.5	44668.359	49.5	48	44
545	13:05:57	44.6	28840.315	46.3	45	43
546	13:06:07	44	25118.864	46.6	45	43
End Ambient 2 Run 2 Upper Manatee River R			45.0	58.3		
Begin Ambient 2 Run 3 Upper Manatee River Rd						
547	13:06:17	43.5	22387.211	45.4	44	42
548	13:06:27	40.8	12022.644	43.5	42	40
549	13:06:37	39.1	8128.3052	40.8	39	38
550	13:06:47	42.5	17782.794	44.6	44	40
551	13:06:57	40.8	12022.644	43.8	42	39
552	13:07:07	40.1	10232.93	41.9	41	38

553	13:07:17	40.8	12022.644	42.8	42	39
554	13:07:27	39.6	9120.1084	41.7	41	38
555	13:07:37	41.7	14791.084	43.9	43	39
556	13:07:47	40	10000	42.6	41	38
557	13:07:57	40.5	11220.185	42.1	41	39
558	13:08:07	42.8	19054.607	45.8	45	40
559	13:08:17	46.3	42657.952	49.6	49	41
560	13:08:27	44.3	26915.348	47.2	45	42
561	13:08:37	43.2	20892.961	45.3	44	42
562	13:08:47	42.2	16595.869	45.9	44	40
563	13:08:57	41.4	13803.843	43.7	42	40
564	13:09:07	41.4	13803.843	43	42	40
565	13:09:17	41.2	13182.567	42.6	42	40
566	13:09:27	41.6	14454.398	43.7	43	40
567	13:09:37	40.8	12022.644	43.4	41	38
568	13:09:47	41.5	14125.375	42.6	42	39
569	13:09:57	42.1	16218.101	44.6	43	39
570	13:10:07	41.2	13182.567	46.7	44	38
571	13:10:17	43.2	20892.961	47.3	45	40
572	13:10:27	38.2	6606.9345	38.8	38	38
573	13:10:37	38.4	6918.3097	39.8	39	38
574	13:10:47	41.5	14125.375	46.6	43	39
575	13:10:57	44.5	28183.829	47.2	46	42
576	13:11:07	41	12589.254	43.4	42	39
577	13:11:17	40	10000	45	43	38
578	13:11:27	39.9	9772.3722	41.4	40	39
579	13:11:37	40.1	10232.93	42	41	38
580	13:11:47	43.7	23442.288	46.2	45	40
581	13:11:57	41.2	13182.567	43.4	42	39
582	13:12:07	39.7	9332.543	41.2	40	38
583	13:12:17	39.5	8912.5094	43.6	40	38
584	13:12:27	42.4	17378.008	44.3	43	41
585	13:12:37	42.2	16595.869	44.2	43	40
586	13:12:47	41.1	12882.496	43.9	42	39
587	13:12:57	39.6	9120.1084	42.7	41	38
588	13:13:07	42.1	16218.101	44.9	44	39
589	13:13:17	39.4	8709.6359	41.3	40	38
590	13:13:27	41.8	15135.612	45.4	44	38
591	13:13:37	42	15848.932	46.2	43	40
592	13:13:47	43.7	23442.288	47.1	46	40
593	13:13:57	40.7	11748.976	43.4	41	39
594	13:14:07	43.8	23988.329	46.4	45	40
595	13:14:17	43.9	24547.089	46.6	45	42
596	13:14:27	46	39810.717	49	48	44
597	13:14:37	46.6	45708.819	49.1	48	43
598	13:14:47	44.6	28840.315	47.2	46	42
599	13:14:57	48.4	69183.097	50.5	50	45
600	13:15:07	49.3	85113.804	50.7	50	47
601	13:15:17	48.5	70794.578	49.9	49	46
602	13:15:27	48.1	64565.423	50.6	49	47
603	13:15:37	50.2	104712.85	52	51	48
604	13:15:47	48.3	67608.298	50.7	49	46
605	13:15:57	48.4	69183.097	51.1	49	46
606	13:16:07	47.1	51286.138	48.7	48	46
607	13:16:17	47.1	51286.138	49.4	48	44
608	13:16:27	48.1	64565.423	51.6	50	44

609	13:16:37	40.9	12302.688	43.2	42	39
610	13:16:47	40	10000	42.8	42	38
611	13:16:57	41.1	12882.496	46.4	44	38
612	13:17:07	47.2	52480.746	50.2	48	43
613	13:17:17	44.6	28840.315	46.4	46	43
614	13:17:27	43.3	21379.621	47.2	45	39
615	13:17:37	44.6	28840.315	48.2	47	41
616	13:17:47	44.4	27542.287	47.5	46	42
617	13:17:57	44	25118.864	47.2	45	41
618	13:18:07	43.8	23988.329	46.3	45	42
619	13:18:17	42.8	19054.607	46.1	45	38
620	13:18:27	43.2	20892.961	45.1	44	41
621	13:18:37	41.5	14125.375	44.7	43	38
622	13:18:47	40	10000	44.1	42	38
623	13:18:57	44.9	30902.954	49.8	47	42
624	13:19:07	45.1	32359.366	49.9	47	41
625	13:19:17	43.5	22387.211	47.8	46	39
626	13:19:27	41.5	14125.375	45.2	44	38
627	13:19:37	44.9	30902.954	50.1	49	39
628	13:19:47	43	19952.623	48.4	46	38
629	13:19:57	43.3	21379.621	45.1	44	41
630	13:20:07	42.1	16218.101	43.8	42	41
631	13:20:17	40.1	10232.93	41.6	41	38
632	13:20:27	41.1	12882.496	42.8	42	40
633	13:20:37	38.6	7244.3596	40.9	39	38
634	13:20:47	38.2	6606.9345	38.2	38	38
635	13:20:57	38.3	6760.8298	38.8	38	38
636	13:21:07	39.9	9772.3722	41.4	41	38
637	13:21:17	38.2	6606.9345	38.2	38	38
638	13:21:27	38.2	6606.9345	38.2	38	38
639	13:21:37	38.3	6760.8298	39.8	38	38
640	13:21:47	38.2	6606.9345	38.5	38	38
641	13:21:57	44	25118.864	48.7	47	38
642	13:22:07	43.7	23442.288	48.5	46	41
643	13:22:17	38.8	7585.7758	41.3	40	38
644	13:22:27	40.5	11220.185	42.8	42	38
645	13:22:37	45.1	32359.366	48.4	48	41
646	13:22:47	44.3	26915.348	45.4	45	42
647	13:22:57	38.4	6918.3097	40.8	39	38
648	13:23:07	38.2	6606.9345	38.2	38	38
649	13:23:17	41.8	15135.612	46.8	45	38
650	13:23:27	44.8	30199.517	47.1	46	43
651	13:23:37	43.2	20892.961	47.3	46	38
652	13:23:47	42.7	18620.871	44.5	44	40
653	13:23:57	41.7	14791.084	43.6	43	40
654	13:24:07	49.2	83176.377	51.2	51	43
655	13:24:17	48.3	67608.298	49.9	49	45
656	13:24:27	42.4	17378.008	44.6	43	40
657	13:24:37	39.3	8511.3804	42.4	41	38
658	13:24:47	38.3	6760.8298	39.5	38	38
659	13:24:57	39.9	9772.3722	42.8	42	38
660	13:25:07	45.1	32359.366	48.1	47	42
661	13:25:17	40.4	10964.782	43.8	43	38
662	13:25:27	39.8	9549.9259	44	41	38
663	13:25:37	44.9	30902.954	47.8	46	41
664	13:25:47	44.2	26302.68	48.1	46	39

665	13:25:57	40	10000	44.6	43	38
666	13:26:07	40.5	11220.185	43.7	43	38
667	13:26:17	46.5	44668.359	48.9	47	44
668	13:26:27	46.7	46773.514	49.5	48	42
669	13:26:37	45	31622.777	48.6	47	41
670	13:26:47	40.3	10715.193	43.9	42	38
671	13:26:57	47.7	58884.366	53.9	51	43
672	13:27:07	46.3	42657.952	49.9	48	42
673	13:27:17	43.3	21379.621	49.3	45	40
674	13:27:27	47.7	58884.366	50.9	49	45
675	13:27:37	46.5	44668.359	49.6	49	42
676	13:27:47	43	19952.623	49	44	39
677	13:27:57	46.4	43651.583	49.5	47	43
678	13:28:07	42.9	19498.446	46.4	45	39
679	13:28:17	45.5	35481.339	47.9	47	44
680	13:28:27	41.2	13182.567	44.8	43	38
681	13:28:37	39.3	8511.3804	43.2	41	38
682	13:28:47	44.4	27542.287	47.5	46	42
683	13:28:57	43.1	20417.379	46.7	45	40
684	13:29:07	43.5	22387.211	46.9	45	40
685	13:29:17	45.2	33113.112	49.3	48	38
686	13:29:27	42.6	18197.009	46.9	45	38
687	13:29:37	44.1	25703.958	46.7	45	42
688	13:29:47	44.4	27542.287	50.4	48	38
689	13:29:57	40	10000	42.3	41	38
690	13:30:07	42.6	18197.009	44.4	44	39
691	13:30:17	44.9	30902.954	46.6	45	42
692	13:30:27	42.5	17782.794	44.9	44	38
693	13:30:37	43	19952.623	49.9	46	38
694	13:30:47	42.6	18197.009	46.5	45	39
695	13:30:57	41.2	13182.567	46	44	38
696	13:31:07	39.6	9120.1084	45.6	42	38
697	13:31:17	39.4	8709.6359	40.7	40	38
698	13:31:27	40	10000	41.9	41	38
699	13:31:37	38.7	7413.1024	40	39	38
700	13:31:47	38.2	6606.9345	38.2	38	38
701	13:31:57	38.2	6606.9345	38.2	38	38
702	13:32:07	38.2	6606.9345	38.2	38	38
703	13:32:17	38.2	6606.9345	38.2	38	38
704	13:32:27	38.2	6606.9345	38.2	38	38
705	13:32:37	38.2	6606.9345	38.2	38	38
706	13:32:47	38.2	6606.9345	38.2	38	38
707	13:32:57	38.2	6606.9345	38.2	38	38
708	13:33:07	38.3	6760.8298	39.5	38	38
709	13:33:17	38.3	6760.8298	39.5	38	38
710	13:33:27	38.2	6606.9345	38.5	38	38
711	13:33:37	38.2	6606.9345	38.2	38	38
712	13:33:47	38.2	6606.9345	38.2	38	38
713	13:33:57	40.1	10232.93	43.3	42	38
714	13:34:07	38.7	7413.1024	43.2	38	38
715	13:34:17	41.1	12882.496	47.6	45	38
716	13:34:27	39.7	9332.543	44.6	41	38
717	13:34:37	38.6	7244.3596	39.9	39	38
718	13:34:47	38.5	7079.4578	39.9	39	38
719	13:34:57	38.2	6606.9345	38.2	38	38
720	13:35:07	38.2	6606.9345	38.2	38	38

721	13:35:17	38.2	6606.9345	38.2	38	38
722	13:35:27	38.5	7079.4578	40.6	39	38
723	13:35:37	43	19952.623	48.1	45	41
724	13:35:47	41.8	15135.612	43.3	43	41
725	13:35:57	42.8	19054.607	44.3	44	41
726	13:36:07	43	19952.623	43.7	43	42
End Ambient 2 Run 3 Upper Manatee River R			43.2	53.9		
Begin Ambient 2 Run 4 Upper Manatee River Rd						
727	13:36:17	42.1	16218.101	43	43	40
728	13:36:27	38.3	6760.8298	39.7	38	38
729	13:36:37	38.2	6606.9345	38.2	38	38
730	13:36:47	46.7	46773.514	53.9	52	38
731	13:36:57	38.9	7762.4712	43.6	40	38
732	13:37:07	38.3	6760.8298	39	38	38
733	13:37:17	38.3	6760.8298	38.7	38	38
734	13:37:27	38.2	6606.9345	38.4	38	38
735	13:37:37	38.2	6606.9345	38.2	38	38
736	13:37:47	38.2	6606.9345	38.2	38	38
737	13:37:57	38.7	7413.1024	40.6	39	38
738	13:38:07	39.9	9772.3722	41.8	41	38
739	13:38:17	40.7	11748.976	42.1	41	39
740	13:38:27	39.7	9332.543	42.1	41	38
741	13:38:37	39.3	8511.3804	40.8	40	38
742	13:38:47	38.4	6918.3097	39.8	38	38
743	13:38:57	39.1	8128.3052	41.3	39	38
744	13:39:07	40.6	11481.536	42.3	41	39
745	13:39:17	38.8	7585.7758	40.3	39	38
746	13:39:27	38.2	6606.9345	38.6	38	38
747	13:39:37	38.8	7585.7758	40.8	39	38
748	13:39:47	40.2	10471.285	45.5	42	38
749	13:39:57	38.2	6606.9345	38.8	38	38
750	13:40:07	41	12589.254	47.4	45	38
751	13:40:17	39	7943.2823	43.9	41	38
752	13:40:27	38.8	7585.7758	41.3	40	38
753	13:40:37	38.6	7244.3596	40	39	38
754	13:40:47	38.4	6918.3097	39.5	38	38
755	13:40:57	38.2	6606.9345	38.2	38	38
756	13:41:07	38.7	7413.1024	41.4	40	38
757	13:41:17	38.2	6606.9345	38.6	38	38
758	13:41:27	38.5	7079.4578	40.3	39	38
759	13:41:37	41.9	15488.166	43.7	43	40
760	13:41:47	41.8	15135.612	42.7	42	40
761	13:41:57	38.3	6760.8298	39.4	38	38
762	13:42:07	38.3	6760.8298	39.2	38	38
763	13:42:17	43.3	21379.621	45.1	44	41
764	13:42:27	55.8	380189.4	65.8	62	42
765	13:42:37	48.8	75857.758	58.1	54	38
766	13:42:47	40.8	12022.644	43.5	42	38
767	13:42:57	39.1	8128.3052	41.5	40	38
768	13:43:07	42.1	16218.101	46.8	45	39
769	13:43:17	44.5	28183.829	49	48	39
770	13:43:27	43.8	23988.329	47.3	46	40
771	13:43:37	42.5	17782.794	46.3	44	40
772	13:43:47	44.9	30902.954	48.8	47	41
773	13:43:57	42.2	16595.869	47	43	39
774	13:44:07	45.6	36307.805	52.3	49	40

775	13:44:17	48.8	75857.758	52.4	51	44
776	13:44:27	47.9	61659.5	52.5	50	44
777	13:44:37	46.1	40738.028	50.8	49	39
778	13:44:47	41	12589.254	43.4	42	39
779	13:44:57	38.3	6760.8298	38.9	38	38
780	13:45:07	40.3	10715.193	43.6	42	38
781	13:45:17	40	10000	42.6	41	38
782	13:45:27	40.7	11748.976	42.6	41	39
783	13:45:37	41.4	13803.843	44.6	43	39
784	13:45:47	38.4	6918.3097	40.3	39	38
785	13:45:57	40.5	11220.185	42.7	41	39
786	13:46:07	41.4	13803.843	43.9	43	39
787	13:46:17	40.3	10715.193	42.8	41	38
788	13:46:27	38.3	6760.8298	39.9	38	38
789	13:46:37	38.2	6606.9345	38.2	38	38
790	13:46:47	38.2	6606.9345	38.2	38	38
791	13:46:57	38.2	6606.9345	38.2	38	38
792	13:47:07	42.5	17782.794	46.5	44	38
793	13:47:17	40.3	10715.193	43.6	42	38
794	13:47:27	41.4	13803.843	45.9	44	38
795	13:47:37	38.2	6606.9345	38.2	38	38
796	13:47:47	38.2	6606.9345	38.5	38	38
797	13:47:57	40.9	12302.688	44	43	38
798	13:48:07	40.2	10471.285	42.9	42	38
799	13:48:17	40.3	10715.193	44.7	42	38
800	13:48:27	46.3	42657.952	48.9	48	40
801	13:48:37	49.1	81283.052	56.3	54	44
802	13:48:47	52.2	165958.69	56.3	55	44
803	13:48:57	40	10000	43.7	42	38
804	13:49:07	38.4	6918.3097	39.4	38	38
805	13:49:17	43.9	24547.089	47.7	47	38
806	13:49:27	47.2	52480.746	50	49	43
807	13:49:37	46.4	43651.583	49	48	43
808	13:49:47	44.7	29512.092	48.2	46	41
809	13:49:57	44.9	30902.954	46.7	46	41
810	13:50:07	46.9	48977.882	49.8	48	44
811	13:50:17	46.9	48977.882	50.5	49	44
812	13:50:27	45.4	34673.685	50.1	47	40
813	13:50:37	41.8	15135.612	44	43	38
814	13:50:47	41.2	13182.567	45.7	43	38
815	13:50:57	41.5	14125.375	46.4	45	38
816	13:51:07	41.9	15488.166	45.1	43	40
817	13:51:17	43.4	21877.616	46.7	45	41
818	13:51:27	43.1	20417.379	46.2	45	40
819	13:51:37	42.1	16218.101	44.9	43	39
820	13:51:47	45.7	37153.523	48.3	47	43
821	13:51:57	43.4	21877.616	46	44	41
822	13:52:07	42.9	19498.446	45.8	45	40
823	13:52:17	45.9	38904.514	51.3	49	40
824	13:52:27	44.2	26302.68	46.4	45	42
825	13:52:37	39.2	8317.6377	44.2	41	38
826	13:52:47	38.2	6606.9345	38.2	38	38
827	13:52:57	38.2	6606.9345	38.2	38	38
828	13:53:07	38.2	6606.9345	38.2	38	38
829	13:53:17	38.2	6606.9345	38.2	38	38
830	13:53:27	38.2	6606.9345	38.2	38	38

831	13:53:37	38.2	6606.9345	38.8	38	38
832	13:53:47	43.4	21877.616	48	46	38
833	13:53:57	42	15848.932	45.5	44	38
834	13:54:07	38.2	6606.9345	38.2	38	38
835	13:54:17	39.5	8912.5094	42.8	41	38
836	13:54:27	42.5	17782.794	45.4	44	40
837	13:54:37	43.1	20417.379	46.2	44	41
838	13:54:47	41.3	13489.629	45.7	43	38
839	13:54:57	40.6	11481.536	43.4	42	38
840	13:55:07	39.6	9120.1084	42	41	38
841	13:55:17	44.3	26915.348	47.3	46	42
842	13:55:27	42.3	16982.437	47.9	45	38
843	13:55:37	39.6	9120.1084	42.2	40	38
844	13:55:47	39	7943.2823	41.2	40	38
845	13:55:57	39.2	8317.6377	41.5	40	38
846	13:56:07	45.3	33884.416	49.9	49	40
847	13:56:17	49.5	89125.094	52.6	51	46
848	13:56:27	46.1	40738.028	48.7	47	44
849	13:56:37	40.8	12022.644	44.7	42	39
850	13:56:47	40.2	10471.285	42.7	41	38
851	13:56:57	38.6	7244.3596	40.9	39	38
852	13:57:07	40	10000	42	40	38
853	13:57:17	39.7	9332.543	41.5	40	38
854	13:57:27	39	7943.2823	41.5	40	38
855	13:57:37	38.7	7413.1024	40.8	40	38
856	13:57:47	39.6	9120.1084	42.4	41	38
857	13:57:57	39.5	8912.5094	42.3	41	38
858	13:58:07	39	7943.2823	41.1	39	38
859	13:58:17	38.2	6606.9345	38.2	38	38
860	13:58:27	38.2	6606.9345	38.2	38	38
861	13:58:37	38.2	6606.9345	38.2	38	38
862	13:58:47	38.2	6606.9345	38.2	38	38
863	13:58:57	38.2	6606.9345	38.2	38	38
864	13:59:07	41.6	14454.398	46.3	45	38
865	13:59:17	38.2	6606.9345	38.2	38	38
866	13:59:27	38.2	6606.9345	38.2	38	38
867	13:59:37	38.2	6606.9345	38.2	38	38
868	13:59:47	38.2	6606.9345	38.2	38	38
869	13:59:57	38.2	6606.9345	38.2	38	38
870	14:00:07	38.2	6606.9345	38.2	38	38
871	14:00:17	38.2	6606.9345	38.6	38	38
872	14:00:27	38.3	6760.8298	38.8	38	38
873	14:00:37	38.2	6606.9345	38.2	38	38
874	14:00:47	43.1	20417.379	45.4	45	38
875	14:00:57	43.5	22387.211	45.1	44	42
876	14:01:07	40.5	11220.185	43.7	42	38
877	14:01:17	43.9	24547.089	46.5	45	41
878	14:01:27	41	12589.254	44.1	42	38
879	14:01:37	38.2	6606.9345	38.5	38	38
880	14:01:47	38.2	6606.9345	38.2	38	38
881	14:01:57	38.8	7585.7758	44.2	39	38
882	14:02:07	41.8	15135.612	46.3	45	38
883	14:02:17	38.2	6606.9345	38.2	38	38
884	14:02:27	38.4	6918.3097	40.1	39	38
885	14:02:37	38.6	7244.3596	42	39	38
886	14:02:47	41.3	13489.629	44	43	38

887	14:02:57	44.3	26915.348	46.5	45	41
888	14:03:07	39.6	9120.1084	42.5	41	38
889	14:03:17	40.1	10232.93	44	42	38
890	14:03:27	40	10000	44	42	38
891	14:03:37	39.8	9549.9259	43.9	41	38
892	14:03:47	40.1	10232.93	43.6	42	38
893	14:03:57	39.7	9332.543	43.2	41	38
894	14:04:07	39.3	8511.3804	42.9	41	38
895	14:04:17	39.3	8511.3804	42.8	41	38
896	14:04:27	39.5	8912.5094	44.2	41	38
897	14:04:37	39.5	8912.5094	42.5	41	38
898	14:04:47	42.3	16982.437	44.3	43	41
899	14:04:57	42.7	18620.871	47.5	46	40
900	14:05:07	41.2	13182.567	45.9	43	39
901	14:05:17	51.1	128824.96	60.2	57	39
902	14:05:27	58.1	645654.23	62.2	61	50
End Ambient 2 Run 4 Upper Manatee River R			43.6	65.8		

URS
O'Donnell

25-Jul-11
TNM 2.5
Calculated with TNM 2.5

RESULTS: SOUND LEVELS
PROJECT/CONTRACT: New Ft Hamer Bridge
RUN: 4L Build NB PM Peak w/Barriers
BARRIER DESIGN: Rye Rd 1E 8ft
ATMOSPHERICS: 68 deg F, 50% RH

Average pavement type shall be used unless a State highway agency substantiates the use of a different type with approval of FHWA.

Receiver Name	No.	#DUs	Existing LAeq1h	No Barrier LAeq1h Calculated	Crit'n	Increase over existing Calculated	Increase over existing Crit'n Sub'l Inc	Type Impact	With Barrier Calculated LAeq1h	Noise Reduction Calculated	Noise Reduction Goal	Calculated minus Goal
			dBA	dBA	dBA	dB	dB		dBA	dB	dB	dB
Receiver125	125	1	0	67.8	66	67.8	10	Snd Lvl	62.9	4.9	8	-3.1
Receiver124	124	1	0	67.6	66	67.6	10	Snd Lvl	64.3	3.3	8	-4.7
Receiver123	123	1	0	67.8	66	67.8	10	Snd Lvl	65.4	2.4	8	-5.6
Receiver122	122	2	0	66.4	66	66.4	10	Snd Lvl	61.5	4.9	8	-3.1
Receiver121	121	1	0	64	66	64	10	----	60.6	3.4	8	-4.6

Dwelling Units	# DUs	Noise Reduction Min	Avg	Max
		dB	dB	dB
All Selected	5	2.4	3.8	4.9
All Impacted	5	2.4	3.9	4.9
All that meet NR Goal	0	0	0	0

RESULTS: BARRIER DESCRIPT
PROJECT/CONTRACT: New Ft Hamer Bridge
RUN: 4L Build NB PM Peak w/Barriers
BARRIER DESIGN: Rye Rd 1E 8ft

Barriers Name	Type	Heights along Barrier Min	Avg	Max	Length	If Wall Area	If Berm Volume	Top Width	Run:Rise	Cost
		ft	ft	ft	ft	sq ft	cu yd	ft	ft:ft	$
RYE 3E	W	8	8	8	1138	9104				273116
									Total Cost:	273116

URS 25-Jul-11
O'Donnell TNM 2.5
Calculated with TNM 2.5

RESULTS: SOUND LEVELS
PROJECT/CONTRACT: New Ft Hamer Bridge
RUN: 4L Build NB PM Peak w/Barriers
BARRIER DESIGN: Rye Rd 1E 10ft
ATMOSPHERICS: 68 deg F, 50% RH

Average pavement type shall be used unless a State highway agency substantiates the use of a different type with approval of FHWA.

Receiver Name	No.	#DUs	Existing LAeq1h	No Barrier LAeq1h Calculated	Crit'n	Increase over existing Calculated	Crit'n Sub'l Inc	Type Impact	With Barrier Calculated Noise Reduction LAeq1h	Calculated	Goal	Calculated minus Goal
			dBA	dBA	dBA	dB	dB		dBA	dB	dB	dB
Receiver125	125	1	0	67.8	66	67.8	10	Snd Lvl	62.3	5.5	8	-2.5
Receiver124	124	1	0	67.6	66	67.6	10	Snd Lvl	63.9	3.7	8	-4.3
Receiver123	123	1	0	67.8	66	67.8	10	Snd Lvl	65.2	2.6	8	-5.4
Receiver122	122	2	0	66.4	66	66.4	10	Snd Lvl	60.4	6	8	-2
Receiver121	121	1	0	64	66	64	10	----	59.5	4.5	8	-3.5

Dwelling Units	# DUs	Noise Reduction Min dB	Avg dB	Max dB
All Selected	5	2.6	4.5	6
All Impacted	5	2.6	4.5	6
All that meet NR Goal	0	0	0	0

URS 25-Jul-11
O'Donnell TNM 2.5

RESULTS: BARRIER DESCRIPTI
PROJECT/CONTRACT: New Ft Hamer Bridge
RUN: 4L Build NB PM Peak w/Barriers
BARRIER DESIGN: Rye Rd 1E 10ft

Barriers Name	Type	Heights along Barrier Min	Avg	Max	Length	If Wall Area	If Berm Volume	Top Width	Run:Rise	Cost
		ft	ft	ft	ft	sq ft	cu yd	ft	ft:ft	$
RYE 3E	W	10	10	10	1138	11380				341395
									Total Cost:	341395

URS 25-Jul-11
O'Donnell TNM 2.5
Calculated with TNM 2.5

RESULTS: SOUND LEVELS
PROJECT/CONTRACT: New Ft Hamer Bridge
RUN: 4L Build NB PM Peak w/Barriers
BARRIER DESIGN: Rye Rd 1E 12ft
ATMOSPHERICS: 68 deg F, 50% RH

Average pavement type shall be used unless a State highway agency substantiates the use of a different type with approval of FHWA.

Receiver Name	No.	#DUs	Existing LAeq1h	No Barrier LAeq1h Calculated	Crit'n	Increase over existing Calculated	Crit'n Sub'l Inc	Type Impact	With Barrier Calculated LAeq1h	Noise Reduction Calculated	Goal	Calculated minus Goal
			dBA	dBA	dBA	dB	dB		dBA	dB	dB	dB
Receiver125	125	1	0	67.8	66	67.8	10	Snd Lvl	62	5.8	8	-2.2
Receiver124	124	1	0	67.6	66	67.6	10	Snd Lvl	63.8	3.8	8	-4.2
Receiver123	123	1	0	67.8	66	67.8	10	Snd Lvl	65	2.8	8	-5.2
Receiver122	122	2	0	66.4	66	66.4	10	Snd Lvl	59.9	6.5	8	-1.5
Receiver121	121	1	0	64	66	64	10	----	59	5	8	-3

Dwelling Units	# DUs	Noise Reduction Min dB	Avg dB	Max dB
All Selected	5	2.8	4.8	6.5
All Impacted	5	2.8	4.7	6.5
All that meet NR Goal	0	0	0	0

URS 25-Jul-11
O'Donnell TNM 2.5

RESULTS: BARRIER DESCRIPTI
PROJECT/CONTRACT: New Ft Hamer Bridge
RUN: 4L Build NB PM Peak w/Barriers
BARRIER DESIGN: Rye Rd 1E 12ft

Barriers Name	Type	Heights along Barrier Min	Avg	Max	Length	If Wall Area	If Berm Volume	Top Width	Run:Rise	Cost
		ft	ft	ft	ft	sq ft	cu yd	ft	ft:ft	$
RYE 3E	W	12	12	12	1138	13656				409674
									Total Cost:	409674

URS 25-Jul-11
O'Donnell TNM 2.5
Calculated with TNM 2.5

RESULTS: SOUND LEVELS
PROJECT/CONTRACT: New Ft Hamer Bridge
RUN: 4L Build NB PM Peak w/Barriers
BARRIER DESIGN: Rye Rd 1E 14ft
ATMOSPHERICS: 68 deg F, 50% RH

Average pavement type shall be used unless a State highway agency substantiates the use of a different type with approval of FHWA.

Receiver Name	No.	#DUs	Existing LAeq1h	No Barrier LAeq1h Calculated	Crit'n	Increase over existing Calculated	Crit'n	Sub'l Inc	Type Impact	With Barrier Calculated LAeq1h	Noise Reduction Calculated	Goal	Calculated minus Goal
			dBA	dBA	dBA	dB	dB			dBA	dB	dB	dB
Receiver125	125	1	0	67.8	66	67.8	10		Snd Lvl	61.8	6	8	-2
Receiver124	124	1	0	67.6	66	67.6	10		Snd Lvl	63.6	4	8	-4
Receiver123	123	1	0	67.8	66	67.8	10		Snd Lvl	65	2.8	8	-5.2
Receiver122	122	2	0	66.4	66	66.4	10		Snd Lvl	59.5	6.9	8	-1.1
Receiver121	121	1	0	64	66	64	10		----	58.7	5.3	8	-2.7

Dwelling Units	# DUs	Noise Reduction Min dB	Avg dB	Max dB
All Selected	5	2.8	5	6.9
All Impacted	5	2.8	4.9	6.9
All that meet NR Goal	0	0	0	0

URS 25-Jul-11
O'Donnell TNM 2.5

RESULTS: BARRIER DESCRIPTI
PROJECT/CONTRACT: New Ft Hamer Bridge
RUN: 4L Build NB PM Peak w/Barriers
BARRIER DESIGN: Rye Rd 1E 14ft

Barriers Name	Type	Heights along Barrier Min	Avg	Max	Length	If Wall Area	If Berm Volume	Top Width	Run:Rise	Cost
		ft	ft	ft	ft	sq ft	cu yd	ft	ft:ft	$
RYE 3E	W	14	14	14	1138	15932				477953
									Total Cost:	477953

URS 25-Jul-11
O'Donnell TNM 2.5
Calculated with TNM 2.5

RESULTS: SOUND LEVELS
PROJECT/CONTRACT: New Ft Hamer Bridge
RUN: 4L Build NB PM Peak w/Barriers
BARRIER DESIGN: Rye Rd 1E 16ft

Average pavement type shall be used unless a State highway agency substantiates the use of a different type with approval of FHWA.

ATMOSPHERICS: 68 deg F, 50% RH

Receiver Name	No.	#DUs	Existing LAeq1h	No Barrier LAeq1h Calculated	Crit'n	Increase over existing Calculated	Crit'n Sub'l Inc	Type Impact	With Barrier Calculated LAeq1h	Noise Reduction Calculated	Goal	Calculated minus Goal
			dBA	dBA	dBA	dB	dB		dBA	dB	dB	dB
Receiver125	125	1	0	67.8	66	67.8	10	Snd Lvl	61.7	6.1	8	-1.9
Receiver124	124	1	0	67.6	66	67.6	10	Snd Lvl	63.6	4	8	-4
Receiver123	123	1	0	67.8	66	67.8	10	Snd Lvl	64.9	2.9	8	-5.1
Receiver122	122	2	0	66.4	66	66.4	10	Snd Lvl	59.3	7.1	8	-0.9
Receiver121	121	1	0	64	66	64	10	----	58.5	5.5	8	-2.5

Dwelling Units	# DUs	Noise Reduction Min	Avg	Max
		dB	dB	dB
All Selected	5	2.9	5.1	7.1
All Impacted	5	2.9	5	7.1
All that meet NR Goal	0	0	0	0

URS 25-Jul-11
O'Donnell TNM 2.5

RESULTS: BARRIER DESCRIPTI
PROJECT/CONTRACT: New Ft Hamer Bridge
RUN: 4L Build NB PM Peak w/Barriers
BARRIER DESIGN: Rye Rd 1E 16ft

Barriers Name	Type	Heights along Barrier Min	Avg	Max	Length	If Wall Area	If Berm Volume	Top Width	Run:Rise	Cost
		ft	ft	ft	ft	sq ft	cu yd	ft	ft:ft	$
RYE 3E	W	16	16	16	1138	18208				546232
									Total Cost:	546232

URS 25-Jul-11
O'Donnell TNM 2.5
Calculated with TNM 2.5

RESULTS: SOUND LEVELS
PROJECT/CONTRACT: New Ft Hamer Bridge
RUN: 4L Build NB PM Peak w/Barriers
BARRIER DESIGN: Rye Rd 1E 18ft
ATMOSPHERICS: 68 deg F, 50% RH

Average pavement type shall be used unless a State highway agency substantiates the use of a different type with approval of FHWA.

Receiver Name	No.	#DUs	Existing LAeq1h	No Barrier LAeq1h Calculated	Crit'n	Increase over existing Calculated	Crit'n Sub'l Inc	Type Impact	With Barrier Calculated Noise Reduction LAeq1h	Calculated	Goal	Calculated minus Goal
			dBA	dBA	dBA	dB	dB		dBA	dB	dB	dB
Receiver125	125	1	0	67.8	66	67.8	10	Snd Lvl	61.5	6.3	8	-1.7
Receiver124	124	1	0	67.6	66	67.6	10	Snd Lvl	63.5	4.1	8	-3.9
Receiver123	123	1	0	67.8	66	67.8	10	Snd Lvl	64.9	2.9	8	-5.1
Receiver122	122	2	0	66.4	66	66.4	10	Snd Lvl	59.1	7.3	8	-0.7
Receiver121	121	1	0	64	66	64	10	----	58.3	5.7	8	-2.3

Dwelling Units	# DUs	Noise Reduction Min dB	Avg dB	Max dB
All Selected	5	2.9	5.3	7.3
All Impacted	5	2.9	5.2	7.3
All that meet NR Goal	0	0	0	0

URS 25-Jul-11
O'Donnell TNM 2.5

RESULTS: BARRIER DESCRIPTI
PROJECT/CONTRACT: New Ft Hamer Bridge
RUN: 4L Build NB PM Peak w/Barriers
BARRIER DESIGN: Rye Rd 1E 18ft

Barriers Name	Type	Heights along Barrier Min	Avg	Max	Length	If Wall Area	If Berm Volume	Top Width	Run:Rise	Cost
		ft	ft	ft	ft	sq ft	cu yd	ft	ft:ft	$
RYE 3E	W	18	18	18	1138	20484				614511
									Total Cost:	614511

URS 25-Jul-11
O'Donnell TNM 2.5
Calculated with TNM 2.5

RESULTS: SOUND LEVELS
PROJECT/CONTRACT: New Ft Hamer Bridge
RUN: 4L Build NB PM Peak w/Barriers
BARRIER DESIGN: Rye Rd 1E 20ft
ATMOSPHERICS: 68 deg F, 50% RH

Average pavement type shall be used unless a State highway agency substantiates the use of a different type with approval of FHWA.

Receiver Name	No.	#DUs	Existing LAeq1h	No Barrier LAeq1h Calculated	Crit'n	Increase over existing Calculated	Crit'n Sub'l Inc	Type Impact	With Barrier Calculated Noise Reduction LAeq1h	Calculated	Goal	Calculated minus Goal
			dBA	dBA	dBA	dB	dB		dBA	dB	dB	dB
Receiver125	125	1	0	67.8	66	67.8	10	Snd Lvl	61.4	6.4	8	-1.6
Receiver124	124	1	0	67.6	66	67.6	10	Snd Lvl	63.4	4.2	8	-3.8
Receiver123	123	1	0	67.8	66	67.8	10	Snd Lvl	64.8	3	8	-5
Receiver122	122	2	0	66.4	66	66.4	10	Snd Lvl	58.9	7.5	8	-0.5
Receiver121	121	1	0	64	66	64	10	----	58.2	5.8	8	-2.2

Dwelling Units	# DUs	Noise Reduction Min dB	Avg dB	Max dB
All Selected	5	3	5.4	7.5
All Impacted	5	3	5.3	7.5
All that meet NR Goal	0	0	0	0

URS 25-Jul-11
O'Donnell TNM 2.5

RESULTS: BARRIER DESCRIPTI
PROJECT/CONTRACT: New Ft Hamer Bridge
RUN: 4L Build NB PM Peak w/Barriers
BARRIER DESIGN: Rye Rd 1E 20ft

Barriers Name	Type	Heights along Barrier Min	Avg	Max	Length	If Wall Area	If Berm Volume	Top Width	Run:Rise	Cost
		ft	ft	ft	ft	sq ft	cu yd	ft	ft:ft	$
RYE 3E	W	20	20	20	1138	22760				682790
									Total Cost:	682790

URS 25-Jul-11
O'Donnell TNM 2.5
Calculated with TNM 2.5

RESULTS: SOUND LEVELS
PROJECT/CONTRACT: New Ft Hamer Bridge
RUN: 4L Build NB PM Peak w/Barriers
BARRIER DESIGN: Rye Rd 1E 22ft
ATMOSPHERICS: 68 deg F, 50% RH

Average pavement type shall be used unless a State highway agency substantiates the use of a different type with approval of FHWA.

Receiver Name	No.	#DUs	Existing LAeq1h	No Barrier LAeq1h Calculated	Crit'n	Increase over existing Calculated	Crit'n	Sub'l Inc	Type Impact	With Barrier Calculated LAeq1h	Noise Reduction Calculated	Goal	Calculated minus Goal
			dBA	dBA	dBA	dB	dB			dBA	dB	dB	dB
Receiver125	125	1	0	67.8	66	67.8	10		Snd Lvl	61.4	6.4	8	-1.6
Receiver124	124	1	0	67.6	66	67.6	10		Snd Lvl	63.4	4.2	8	-3.8
Receiver123	123	1	0	67.8	66	67.8	10		Snd Lvl	64.8	3	8	-5
Receiver122	122	2	0	66.4	66	66.4	10		Snd Lvl	58.8	7.6	8	-0.4
Receiver121	121	1	0	64	66	64	10		----	58.1	5.9	8	-2.1

Dwelling Units	# DUs	Noise Reduction Min dB	Avg dB	Max dB
All Selected	5	3	5.4	7.6
All Impacted	5	3	5.3	7.6
All that meet NR Goal	0	0	0	0

URS 25-Jul-11
O'Donnell TNM 2.5

RESULTS: BARRIER DESCRIPT
PROJECT/CONTRACT: New Ft Hamer Bridge
RUN: 4L Build NB PM Peak w/Barriers
BARRIER DESIGN: Rye Rd 1E 22ft

Barriers

Name	Type	Heights along Barrier Min	Avg	Max	Length	If Wall Area	If Berm Volume	Top Width	Run:Rise	Cost
		ft	ft	ft	ft	sq ft	cu yd	ft	ft:ft	$
RYE 3E	W	22	22	22	1138	25036				751069
									Total Cost:	751069

Barrier Height (ft)	Affected Residences with Insertion Loss of (dBA) 5	6	7	8	9	10 or More	Number of Benefited Residences Affected	Other*	Total		Total Estimated Cost	Cost Per Benefitted Receiver	Cost Reasonable Yes/No
8	0	0	0	0	0	0	0	0	0		NA	NA	No
10	1	2	0	0	0	0	3	0	3		$341,395	$113,798	No
12	2	2	0	0	0	0	4	0	4		$409,674	$102,419	No
14	1	3	0	0	0	0	4	0	4		$477,953	$119,488	No
16	1	1	2	0	0	0	4	0	4		$546,232	$136,558	No
18	1	1	2	0	0	0	4	0	4		$614,511	$153,628	No
20	1	1	2	0	0	0	4	0	4		$682,790	$170,698	No
22	1	1	2	0	0	0	4	0	4		$751,069	$187,767	No

DEPARTMENT OF HOMELAND SECURITY
U.S. COAST GUARD FINAL ENVIRONMENTAL IMPACT STATEMENT

FOR

PROPOSED NEW BRIDGE ACROSS THE MANATEE RIVER, MILE 15.0,
AT PARRISH, MANATEE COUNTY, FLORIDA

APPENDIX G

AIR QUALITY MEMORANDUM

NOVEMBER 2010

URS

MEMORANDUM

Date: October 30, 2012

To: File

From: Vickie Scott

Subject: US Coast Guard Docket No.: USCG-2010-0455
Fort Hamer and Rye Road Alternatives from SR 64 to US 301
Manatee County, Florida
Air Quality Screening Test

The referenced proposed project is located in Manatee County, Florida, an area currently designated as being attainment for all of the National Ambient Air Quality Standards (NAAQS) under the criteria provided in the Clean Air Act (CAA). Therefore, the CAA conformity requirements do not apply to the project.

The project alternatives were subjected to a carbon monoxide (CO) screening model that makes various conservative worst-case assumptions related to site conditions, meteorology and traffic. The Florida Department of Transportation's screening model, CO Florida 2004 (released September 7, 2004), uses the latest USEPA-approved software (MOBILE 6 and CAL3QHC) to produce estimates of one-hour and eight-hour carbon CO at default air quality receptor locations. The one-hour and eight-hour estimates can be directly compared to the one-and eight-hour NAAQS for CO that are 35 parts per million (ppm) and 9 ppm, respectively.

The roadway intersection forecast to have the highest total approach traffic volume for the Fort Hamer Alternative was Upper Manatee River Road at SR 64 for the Build scenario and the No-Build scenario. The roadway intersection forecast to have the highest total approach traffic volume for the Rye Road Alternative was Rye Road at SR 64 for the Build scenario and the No-Build scenario. The Build and No-Build scenarios for both the opening year (2015) and the design year (2035) were evaluated. The traffic data input and diagrams used for the analysis are attached to this memorandum.

Estimates of CO were predicted for the default receptors which are located 10 feet to 150 feet from the edge of the roadway. Based on the results from the screening model, the highest project-related CO one- and eight-hour levels are not predicted to meet or exceed the one- or eight-hour NAAQS for this pollutant with either the Fort Hamer Alternative or Rye Road Alternative. As such, the project 'passes' the screening model. The results of the screening model are attached to this memorandum.

TRAFFIC DATA FOR AIR QUALITY ANALYSIS

Date: 10/23/12 Prepared by: URS

Financial Project ID Number(s):

Federal Aid Number(s):

Project Description: Ft. Hamer Bridge – Ft. Hamer Alternative

NOTE: Traffic data should be provided for the intersection that is forecast to have the highest total approach traffic volume. Notably, the intersection may not be the same for the Build and No-Build alternatives. The number of lanes should be the number of intersection approach through lanes. The traffic volumes should be representative of vehicles per hour (vph) and vehicle speeds should be representative of posted speeds if intersection cruise approach speeds are unknown. This traffic data sheet was prepared to assist in obtaining appropriate traffic data for the FDOT CO Florida 2004 Intersection Screening Model. Notably, additional traffic data is required for diamond interchanges (see User's Guide).

Opening Year: 2015

Intersections: Build: SR 64/Upper Manatee River Rd No-Build: SR 64/ Upper Manatee River Rd

Land Use: Urban: X Suburban: Rural:

Build/ No-Build	EB			WB			NB			SB		
	No. of Lanes	VPH	Speed	No. of Lanes	VPH	Speed	No. of Lanes	VPH	Speed	No. of Lanes	VPH	Speed
Build	3	1452	55	3	1233	55	3	1194	45	3	1098	45
No-Build	3	1410	55	3	1308	55	3	1092	45	3	558	45

Design Year: 2035

Intersections: Build: SR 64/Upper Manatee River Rd No-Build: SR 64/Upper Manatee River Rd

Land Use: Urban: X Suburban: Rural:

Build/ No-Build	EB			WB			NB			SB		
	No. of Lanes	VPH	Speed	No. of Lanes	VPH	Speed	No. of Lanes	VPH	Speed	No. of Lanes	VPH	Speed
Build	3	1832	55	3	1405	55	3	1629	45	3	1943	45
No-Build	3	1620	55	3	1560	55	3	2028	45	3	870	45

TRAFFIC DATA FOR AIR QUALITY ANALYSIS

Date: 10/23/12 Prepared by: URS

Financial Project ID Number(s):

Federal Aid Number(s):

Project Description: Ft. Hamer Bridge – Rye Rd. Alternative

NOTE: Traffic data should be provided for the intersection that is forecast to have the highest total approach traffic volume. Notably, the intersection may not be the same for the Build and No-Build alternatives. The number of lanes should be the number of intersection approach through lanes. The traffic volumes should be representative of vehicles per hour (vph) and vehicle speeds should be representative of posted speeds if intersection cruise approach speeds are unknown. This traffic data sheet was prepared to assist in obtaining appropriate traffic data for the FDOT CO Florida 2004 Intersection Screening Model. Notably, additional traffic data is required for diamond interchanges (see User's Guide).

Opening Year: 2015

Intersections: Build: SR 64/Rye Rd. No-Build: SR 64/ Rye Rd.

Land Use: Urban: X Suburban: Rural:

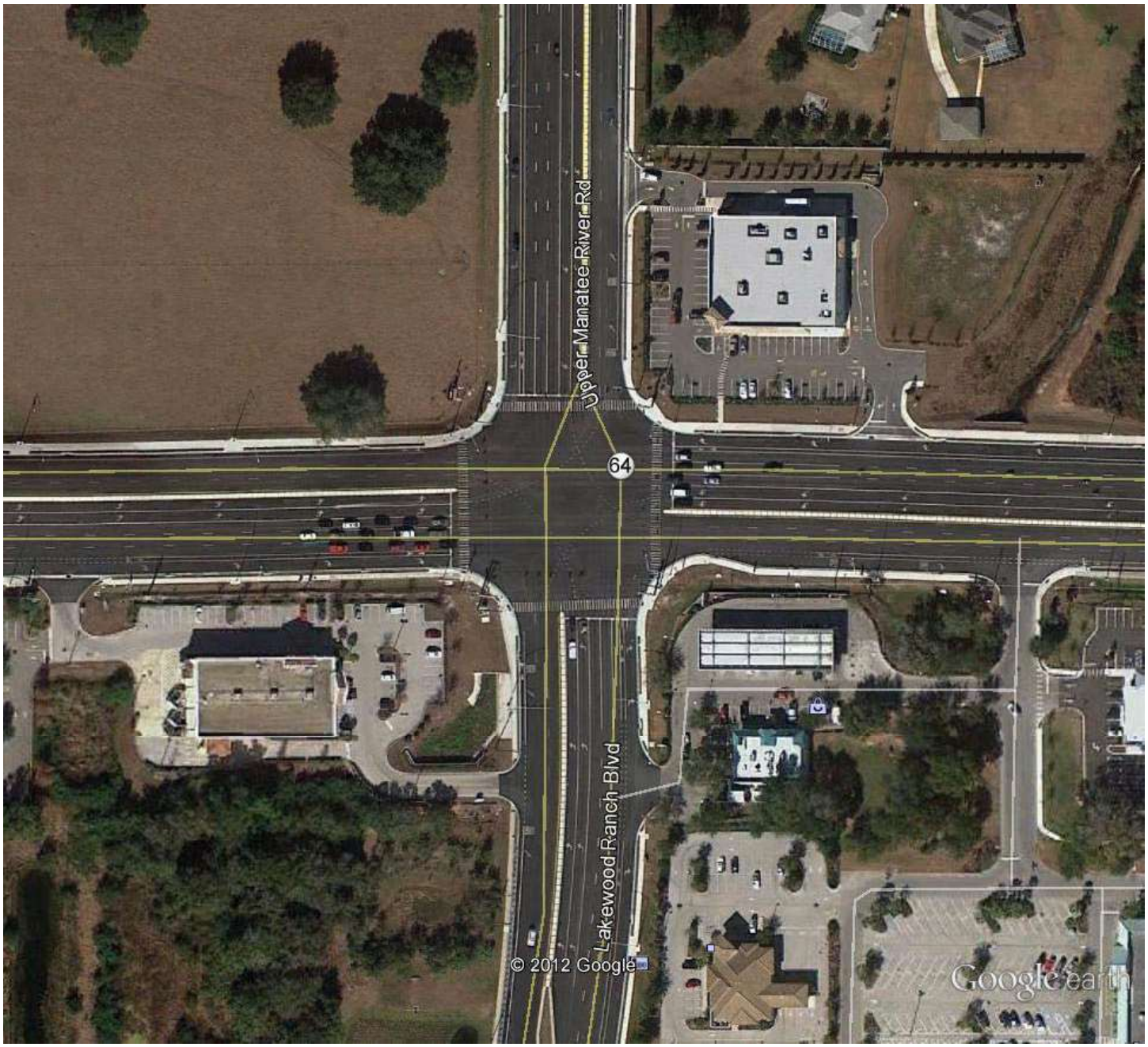
Build/ No-Build	EB			WB			NB			SB		
	No. of Lanes	VPH	Speed	No. of Lanes	VPH	Speed	No. of Lanes	VPH	Speed	No. of Lanes	VPH	Speed
Build	2	1320	60	2	734	60	-	-		2	810	55
No-Build	2	912	60	2	468	60	-	-		1	411	55

Design Year: 2035

Intersections: Build: SR 64/Rye Rd No-Build: SR 64/Rye Rd.

Land Use: Urban: X Suburban: Rural:

Build/ No-Build	EB			WB			NB			SB		
	No. of Lanes	VPH	Speed	No. of Lanes	VPH	Speed	No. of Lanes	VPH	Speed	No. of Lanes	VPH	Speed
Build	2	1482	60	2	960	60	-	-		2	655	55
No-Build	2	1398	60	2	840	60	-	-		1	624	55



Google earth

feet 600
meters 100

Google earth

feet 200
meters 80

CO Florida 2004

Project: Fort Hamer Alternative Build 2015
Facility: Upper Manatee River Road/SR 64
Analyst: vas

Environmental Data:

Temperature:	48 F
Reid Vapor Pressure:	11.5 psi
Land Use:	Urban
Stability Class:	D
Surface Roughness:	175
Background Concentration:	1-hr = 5.0 ppm 8-hr = 3.0 ppm

Project Data:

Region:	3: Central Florida
Year:	2015
Intersection Type:	6 x 6 Intersection
Max Approach Traffic Volume:	1452 veh/hour
Speed:	55

Receptor Data (all distances are in feet):

Receptor Name	East-West Distance from Intersection	North-South Distance from Intersection	Receptor Height
Default Rec 1	10	150	6
Default Rec 2	10	50	6
Default Rec 3	50	10	6
Default Rec 4	150	10	6
Default Rec 5	50	50	6
Default Rec 6	10	-150	6
Default Rec 7	10	-50	6
Default Rec 8	50	-10	6
Default Rec 9	150	-10	6
Default Rec 10	50	-50	6

RESULTS (including background CO):

Receptor Name	Max 1-Hr Conc (ppm)	Max 8-Hr Conc (ppm)
Default Rec 1	8.1	4.9
Default Rec 2	8.5	5.1
Default Rec 3	9.4	5.6
Default Rec 4	9.2	5.5
Default Rec 5	8.2	4.9
Default Rec 6	9.2	5.5
Default Rec 7	9.4	5.6
Default Rec 8	8.5	5.1
Default Rec 9	8.1	4.9
Default Rec 10	8.2	4.9

****
PROJECT PASSES - NO EXCEEDANCES OF NAAQ CO STANDARDS ARE PREDICTED
****

CO Florida 2004

Project: Fort Hamer Alternative No Build 2015
Facility: Upper Manatee River Road/SR 64
Analyst: vas

Environmental Data:

Temperature:	48 F
Reid Vapor Pressure:	11.5 psi
Land Use:	Urban
Stability Class:	D
Surface Roughness:	175
Background Concentration:	1-hr = 5.0 ppm 8-hr = 3.0 ppm

Project Data:

Region:	3: Central Florida
Year:	2015
Intersection Type:	6 x 6 Intersection
Max Approach Traffic Volume:	1410 veh/hour
Speed:	55

Receptor Data (all distances are in feet):

Receptor Name	East-West Distance from Intersection	North-South Distance from Intersection	Receptor Height
Default Rec 1	10	150	6
Default Rec 2	10	50	6
Default Rec 3	50	10	6
Default Rec 4	150	10	6
Default Rec 5	50	50	6
Default Rec 6	10	-150	6
Default Rec 7	10	-50	6
Default Rec 8	50	-10	6
Default Rec 9	150	-10	6
Default Rec 10	50	-50	6

RESULTS (including background CO):

Receptor Name	Max 1-Hr Conc (ppm)	Max 8-Hr Conc (ppm)
Default Rec 1	7.9	4.7
Default Rec 2	8.4	5.0
Default Rec 3	9.3	5.6
Default Rec 4	9.1	5.5
Default Rec 5	8.1	4.9
Default Rec 6	9.1	5.5
Default Rec 7	9.3	5.6
Default Rec 8	8.4	5.0
Default Rec 9	7.9	4.7
Default Rec 10	8.1	4.9

****
PROJECT PASSES - NO EXCEEDANCES OF NAAQ CO STANDARDS ARE PREDICTED
****

CO Florida 2004

Project: Fort Hamer Alternative Build 2035
Facility: Upper Manatee River Road/SR 64
Analyst: vas

Environmental Data:

Temperature:	48 F
Reid Vapor Pressure:	11.5 psi
Land Use:	Urban
Stability Class:	D
Surface Roughness:	175
Background Concentration:	1-hr = 5.0 ppm 8-hr = 3.0 ppm

Project Data:

Region:	3: Central Florida
Year:	2035
Intersection Type:	6 x 6 Intersection
Max Approach Traffic Volume:	1943 veh/hour
Speed:	45

Receptor Data (all distances are in feet):

Receptor Name	East-West Distance from Intersection	North-South Distance from Intersection	Receptor Height
Default Rec 1	10	150	6
Default Rec 2	10	50	6
Default Rec 3	50	10	6
Default Rec 4	150	10	6
Default Rec 5	50	50	6
Default Rec 6	10	-150	6
Default Rec 7	10	-50	6
Default Rec 8	50	-10	6
Default Rec 9	150	-10	6
Default Rec 10	50	-50	6

RESULTS (including background CO):

Receptor Name	Max 1-Hr Conc (ppm)	Max 8-Hr Conc (ppm)
Default Rec 1	8.5	5.1
Default Rec 2	9.1	5.5
Default Rec 3	9.6	5.8
Default Rec 4	9.5	5.7
Default Rec 5	8.5	5.1
Default Rec 6	9.5	5.7
Default Rec 7	9.6	5.8
Default Rec 8	9.1	5.5
Default Rec 9	8.5	5.1
Default Rec 10	8.5	5.1

****
PROJECT PASSES - NO EXCEEDANCES OF NAAQ CO STANDARDS ARE PREDICTED
****

CO Florida 2004

Project: Fort Hamer Alternative No Build 2035
Facility: Upper Manatee River Road/SR 64
Analyst: vas

Environmental Data:

Temperature:	48 F
Reid Vapor Pressure:	11.5 psi
Land Use:	Urban
Stability Class:	D
Surface Roughness:	175
Background Concentration:	1-hr = 5.0 ppm 8-hr = 3.0 ppm

Project Data:

Region:	3: Central Florida
Year:	2035
Intersection Type:	6 x 6 Intersection
Max Approach Traffic Volume:	2028 veh/hour
Speed:	45

Receptor Data (all distances are in feet):

Receptor Name	East-West Distance from Intersection	North-South Distance from Intersection	Receptor Height
Default Rec 1	10	150	6
Default Rec 2	10	50	6
Default Rec 3	50	10	6
Default Rec 4	150	10	6
Default Rec 5	50	50	6
Default Rec 6	10	-150	6
Default Rec 7	10	-50	6
Default Rec 8	50	-10	6
Default Rec 9	150	-10	6
Default Rec 10	50	-50	6

RESULTS (including background CO):

Receptor Name	Max 1-Hr Conc (ppm)	Max 8-Hr Conc (ppm)
Default Rec 1	8.8	5.3
Default Rec 2	9.3	5.6
Default Rec 3	9.8	5.9
Default Rec 4	9.5	5.7
Default Rec 5	8.6	5.2
Default Rec 6	9.5	5.7
Default Rec 7	9.8	5.9
Default Rec 8	9.3	5.6
Default Rec 9	8.8	5.3
Default Rec 10	8.6	5.2

****
PROJECT PASSES - NO EXCEEDANCES OF NAAQ CO STANDARDS ARE PREDICTED
****

CO Florida 2004

Project: Rye Road Alternative Build 2015
Facility: Rye Road/SR 64
Analyst: vas

Environmental Data:

Temperature:	48 F
Reid Vapor Pressure:	11.5 psi
Land Use:	Urban
Stability Class:	D
Surface Roughness:	175
Background Concentration:	1-hr = 5.0 ppm 8-hr = 3.0 ppm

Project Data:

Region:	3: Central Florida
Year:	2015
Intersection Type:	T Intersection
Max Traffic1:	1320 veh/hour
Traffic2:	810 veh/hour
Speed1:	60
Speed2:	55

Receptor Data (all distances are in feet):

Receptor Name	East-West Distance from Intersection	North-South Distance from Intersection	Receptor Height
Default Rec 1	10	150	6
Default Rec 2	10	50	6
Default Rec 3	50	10	6
Default Rec 4	150	10	6
Default Rec 5	50	50	6
Default Rec 6	10	-150	6
Default Rec 7	10	-50	6
Default Rec 8	50	-10	6
Default Rec 9	150	-10	6
Default Rec 10	50	-50	6

RESULTS (including background CO):

Receptor Name	Max 1-Hr Conc (ppm)	Max 8-Hr Conc (ppm)
Default Rec 1	7.3	4.4
Default Rec 2	7.8	4.7
Default Rec 3	7.3	4.4
Default Rec 4	6.4	3.8
Default Rec 5	6.9	4.1
Default Rec 6	7.9	4.7
Default Rec 7	8.0	4.8
Default Rec 8	6.8	4.1
Default Rec 9	6.5	3.9
Default Rec 10	6.7	4.0

****
PROJECT PASSES - NO EXCEEDANCES OF NAAQ CO STANDARDS ARE PREDICTED
****

CO Florida 2004

Project: Rye Road Alternative No Build 2015
Facility: Rye Road/SR 64
Analyst: vas

Environmental Data:

Temperature:	48 F
Reid Vapor Pressure:	11.5 psi
Land Use:	Urban
Stability Class:	D
Surface Roughness:	175
Background Concentration:	1-hr = 5.0 ppm 8-hr = 3.0 ppm

Project Data:

Region:	3: Central Florida
Year:	2015
Intersection Type:	T Intersection
Max Traffic1:	912 veh/hour
Traffic2:	411 veh/hour
Speed1:	60
Speed2:	55

Receptor Data (all distances are in feet):

Receptor Name	East-West Distance from Intersection	North-South Distance from Intersection	Receptor Height
Default Rec 1	10	150	6
Default Rec 2	10	50	6
Default Rec 3	50	10	6
Default Rec 4	150	10	6
Default Rec 5	50	50	6
Default Rec 6	10	-150	6
Default Rec 7	10	-50	6
Default Rec 8	50	-10	6
Default Rec 9	150	-10	6
Default Rec 10	50	-50	6

RESULTS (including background CO):

Receptor Name	Max 1-Hr Conc (ppm)	Max 8-Hr Conc (ppm)
Default Rec 1	6.6	4.0
Default Rec 2	6.7	4.0
Default Rec 3	6.6	4.0
Default Rec 4	5.9	3.5
Default Rec 5	6.3	3.8
Default Rec 6	7.3	4.4
Default Rec 7	7.0	4.2
Default Rec 8	6.3	3.8
Default Rec 9	5.9	3.5
Default Rec 10	6.0	3.6

****
PROJECT PASSES - NO EXCEEDANCES OF NAAQ CO STANDARDS ARE PREDICTED
****

CO Florida 2004

Project: Rye Road Alternative Build 2035
Facility: Rye Road/SR 64
Analyst: vas

Environmental Data:

Temperature:	48 F
Reid Vapor Pressure:	11.5 psi
Land Use:	Urban
Stability Class:	D
Surface Roughness:	175
Background Concentration:	1-hr = 5.0 ppm 8-hr = 3.0 ppm

Project Data:

Region:	3: Central Florida
Year:	2035
Intersection Type:	T Intersection
Max Traffic1:	1482 veh/hour
Traffic2:	655 veh/hour
Speed1:	60
Speed2:	55

Receptor Data (all distances are in feet):

Receptor Name	East-West Distance from Intersection	North-South Distance from Intersection	Receptor Height
Default Rec 1	10	150	6
Default Rec 2	10	50	6
Default Rec 3	50	10	6
Default Rec 4	150	10	6
Default Rec 5	50	50	6
Default Rec 6	10	-150	6
Default Rec 7	10	-50	6
Default Rec 8	50	-10	6
Default Rec 9	150	-10	6
Default Rec 10	50	-50	6

RESULTS (including background CO):

Receptor Name	Max 1-Hr Conc (ppm)	Max 8-Hr Conc (ppm)
Default Rec 1	7.2	4.3
Default Rec 2	7.4	4.4
Default Rec 3	6.9	4.1
Default Rec 4	6.2	3.7
Default Rec 5	6.8	4.1
Default Rec 6	7.7	4.6
Default Rec 7	7.7	4.6
Default Rec 8	6.7	4.0
Default Rec 9	6.2	3.7
Default Rec 10	6.4	3.8

****
PROJECT PASSES - NO EXCEEDANCES OF NAAQ CO STANDARDS ARE PREDICTED
****

CO Florida 2004

Project: Rye Road Alternative No Build 2035
Facility: Rye Road/SR 64
Analyst: vas

Environmental Data:

Temperature:	48 F
Reid Vapor Pressure:	11.5 psi
Land Use:	Urban
Stability Class:	D
Surface Roughness:	175
Background Concentration:	1-hr = 5.0 ppm 8-hr = 3.0 ppm

Project Data:

Region:	3: Central Florida
Year:	2035
Intersection Type:	T Intersection
Max Traffic1:	1398 veh/hour
Traffic2:	624 veh/hour
Speed1:	60
Speed2:	55

Receptor Data (all distances are in feet):

Receptor Name	East-West Distance from Intersection	North-South Distance from Intersection	Receptor Height
Default Rec 1	10	150	6
Default Rec 2	10	50	6
Default Rec 3	50	10	6
Default Rec 4	150	10	6
Default Rec 5	50	50	6
Default Rec 6	10	-150	6
Default Rec 7	10	-50	6
Default Rec 8	50	-10	6
Default Rec 9	150	-10	6
Default Rec 10	50	-50	6

RESULTS (including background CO):

Receptor Name	Max 1-Hr Conc (ppm)	Max 8-Hr Conc (ppm)
Default Rec 1	7.0	4.2
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Default Rec 3	6.9	4.1
Default Rec 4	6.2	3.7
Default Rec 5	6.8	4.1
Default Rec 6	7.5	4.5
Default Rec 7	7.5	4.5
Default Rec 8	6.6	4.0
Default Rec 9	6.1	3.7
Default Rec 10	6.3	3.8

****
PROJECT PASSES - NO EXCEEDANCES OF NAAQ CO STANDARDS ARE PREDICTED
****

DEPARTMENT OF HOMELAND SECURITY
U.S. COAST GUARD FINAL ENVIRONMENTAL IMPACT STATEMENT

FOR

PROPOSED NEW BRIDGE ACROSS THE MANATEE RIVER, MILE 15.0,
AT PARRISH, MANATEE COUNTY, FLORIDA

APPENDIX H

CONTAMINATION SCREENING EVALUATION REPORT

JUNE 2013

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Section 1.0
INTRODUCTION

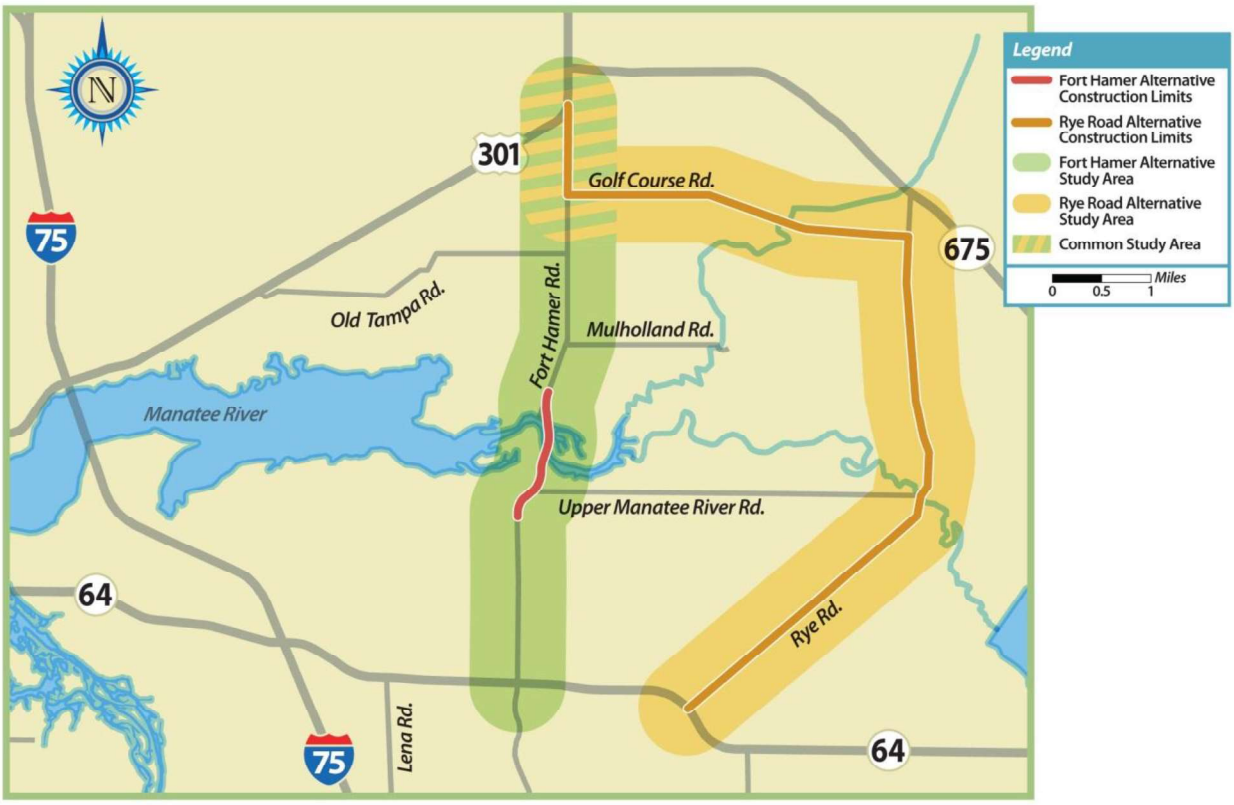
Manatee County (the County) has prepared a Draft Environmental Impact Statement (DEIS), in conjunction with the United States Coast Guard (USCG), to document a study of proposed improvements to north/south traffic movements in eastern Manatee County, Florida and to evaluate the potential impacts associated with those improvements. The objective of this transportation study is to identify the type, conceptual design, and location of improvements necessary to provide additional capacity for the projected north/south travel demand. The DEIS has been developed to satisfy the requirements of the National Environmental Policy Act of 1969 (NEPA) and other related federal and state laws, rules, and regulations that apply to the Proposed Action.

For the purpose of the DEIS, two build alternatives are being evaluated. **Figure 1-1** shows the location, study areas, and construction limits of these alternatives. The study area of each alternative is defined as the area contained within a 0.5-mile buffer of the centerline. The two build alternatives are described below.

- **Fort Hamer Alternative –** This build alternative consists of a new two-lane bridge crossing the Manatee River connecting the existing two-lane Upper Manatee River Road with the existing two-lane Fort Hamer Road. The construction limits of this alternative begin just north of the main entrance of the Waterlefe subdivision and terminate on the north side of the Manatee River approximately 2,000 feet south of Mulholland Drive, a total of approximately 1.4 miles. The study area for this alternative extends south to State Road (SR) 64 and north to U.S. Highway (US) 301 because of the increased traffic between these points that would result from this alternative.

- **Rye Road Alternative –** This build alternative consists of a new two-lane crossing the Manatee River adjacent to the existing Rye Road Bridge and the expansion of Rye Road from two to four lanes from SR 64 north to Golf Course Road, Golf Course Road from two to four lanes from Rye Road to Fort Hamer Road, and Fort Hamer Road from two to four lanes from Golf Course Road to US 301, a total of 10.2 miles.

FIGURE 1-1
PROJECT AREA MAP



1.1 PROJECT NEED

Manatee County is proposing to add additional travel lanes across the Manatee River in eastern Manatee County. The purpose of the Proposed Action is to improve regional mobility by providing an alternative north/south transportation route between high-growth areas of Manatee County located east of Interstate 75 (I-75) and separated by the Manatee River. Studies have shown that there is a strong demand for multiple crossings over this waterway to alleviate the traffic burden on I-75. Several specific factors demonstrate the need for the Proposed Action, including:

- Accommodate existing and projected growth in eastern Manatee County,
- Improve the Level of Service (LOS) of the local roadway network,
- Improve emergency response times, and
- Improve evacuation capacity across the Manatee River.

The current river crossings located at I-75 and Rye Road create a circuitous route in eastern Manatee County that increases travel time/distance, reduces LOS, increases emergency response times, and are at capacity for evacuation scenarios.

1.2 ALTERNATIVES CONSIDERED

The Proposed Action is intended to service the demand for two additional lanes of capacity across the Manatee River east of I-75 and the other elements of the Purpose and Need statement noted in Chapter 1 of the DEIS. East of I-75, opportunities exist where existing roadways can be connected with a new crossing (Fort Hamer Alternative) or an existing bridge and roadway can be expanded (Rye Road Alternative). Other alternatives were considered preliminarily, but were discounted due to their obvious impacts to the natural and human environment or failure to meet the project's Purpose and Need.

For example, new crossing locations between I-75 and Fort Hamer Road would require not only a new crossing of the Manatee River, but miles of new roadway traversing established and growing residential developments, thus, displacing hundreds of residents. Natural environment impacts in this area were also obviously greater than those utilizing existing transportation corridors. A crossing location between Fort Hamer Road and Rye Road had similar issues related to residential developments, but substantially greater natural environment impacts due to the curvilinear nature of this section of the Manatee River, width of the 100-year floodplain, and habitats found along the river. For these reasons, alternatives that either did not utilize or expand existing transportation corridors were considered to be unreasonable and were not carried forward in the DEIS for further analysis.

Within the Fort Hamer Alternative, three bridge concept alternatives were evaluated:

- Bascule Concept
  - Single leaf bascule (moveable) bridge with a 10-foot vertical clearance
- Mid-Level Fixed Concept
  - Fixed span bridge with a 26-foot vertical clearance
- High-Level Fixed Concept
  - Fixed span bridge with a 40-foot vertical clearance

A vessel survey was conducted during the Memorial Day weekend 1999 to determine vessel type, size, and usage along this portion of the Manatee River. At the time it was determined that a vertical clearance (air draft) of 26 feet would accommodate all vessels in this portion of the Manatee River. These results were presented to the USCG and a vertical clearance of 26 feet was found acceptable.

Due to the length of time since that survey was conducted, a second vessel survey was conducted in spring 2011. All property owners with water access between Fort Hamer Road and Rye Road

were identified using the Manatee County Property Appraisers Office database and mailed a questionnaire. Based on the response of that survey, three respondents noted they had vessels that exceeded 26 feet in height. A subsequent field review in December 2011 indicated that one of these vessels (a small sailboat) was sunk in place at the owner's dock. The second vessel consisted of a houseboat with a flagpole that exceeded 26 feet in height; however, it was noted that the houseboat required less than 26 feet vertical clearance if the flagpole was lowered. The third vessel was a sailboat with a permanently mounted mast exceeding 26 feet in height. The results of both vessel surveys are provided in Appendix A of the DEIS.

Based on the estimated total lifetime cost (construction, maintenance, and operations) of the Bascule Bridge Concept ($106,142,880 - $111,083,600) and the very low number of vessels needing unlimited vertical clearance, it was recommended the Bascule Bridge Concept for the Fort Hamer Alternative be eliminated for further consideration.

The bridge height is the basis for the controversy related to the Waterlefe subdivision located immediately southwest of the proposed Fort Hamer Alternative crossing. The High-Level Fixed Bridge would increase the vertical clearance to 40 feet and be contradictory to the issues raised by that community. Additionally, because of the estimated total lifetime cost (construction, maintenance, and operations) of the High-Level Fixed Bridge Concept ($14,906,580 - $26,016,350) and the very low number of vessels needing a 40-foot vertical clearance, it was recommended the High-Level Fixed Bridge Concept for the Fort Hamer Alternative be eliminated for further consideration.

1.3 ALTERNATIVES RECOMMENDED FOR FURTHER EVALUATION

As a result of the preliminary evaluation of alternatives discussed above, it was determined that three alternatives would be considered "reasonable" for further, detailed analysis and evaluation in the DEIS:

- No-Build Alternative,
- Fort Hamer Alternative, and
- Rye Road Alternative.

The No-Build Alternative does not include any road capacity improvements other than the road safety improvements and scheduled maintenance already funded to be constructed in the Manatee County Capital Improvement Program (CIP), or improvements provided by private nongovernment entities, such as developers. For comparative purposes, the No-Build Alternative was retained and evaluated against the two build alternatives throughout the EIS process. The results of the No-Build Alternative analyses are presented in Chapter 2 of the DEIS. This BA only addresses the two build alternatives.

The Fort Hamer Alternative consists of a new two-lane bridge crossing the Manatee River connecting the existing two-lane Upper Manatee River Road with the existing two-lane Fort Hamer Road. The construction limits of this alternative extend from just north of the main entrance of the Waterlefe subdivision to the north side of the Manatee River, a total of approximately 1.4 miles. The length of the proposed bridge is approximately 2,570 feet. A conceptual plan view of the bridge, bridge approaches, and stormwater/floodplain features are shown on **Figure 1-2**. The proposed roadway and bridge typical sections for the Fort Hamer Alternative are shown in **Figure 1-3**.

The Rye Road Alternative consists of a new two-lane, 350-foot-long bridge crossing the Manatee River parallel to the existing Rye Road Bridge. To accommodate the two new lanes over the river, this alternative also includes the expansion of Rye Road from two to four lanes from SR 64 north to Golf Course Road, Golf Course Road from two to four lanes from Rye Road to Fort Hamer Road, and Fort Hamer Road from two to four lanes from Golf Course Road to US 301, a total of approximately 10.2 miles. Unlike the Fort Hamer Alternative, conceptual locations of the stormwater/floodplain compensation ponds have not been developed for the Rye Road Alternative since this alternative has not been advanced to preliminary designs. The proposed roadway and bridge typical sections for the Rye Road Alternative are shown in **Figure 1-4**.

1.4 PREFERRED ALTERNATIVE

The analysis presented in Chapter 2 of the DEIS resulted in the determination that the No-Build Alternative does not meet the stated Purpose and Need. The analysis further showed the Rye Road Alternative only minimally improves the local roadway network LOS and only minimally accommodates planned and approved growth in the area. The Rye Road Alternative does not improve emergency response times. After consideration of each alternative's ability to meet the stated Purpose and Need and the social, cultural, natural environment, and physical impacts of the No-Build Alternative and the two build alternatives, **the Fort Hamer Alternative has been selected as the preferred alternative**.

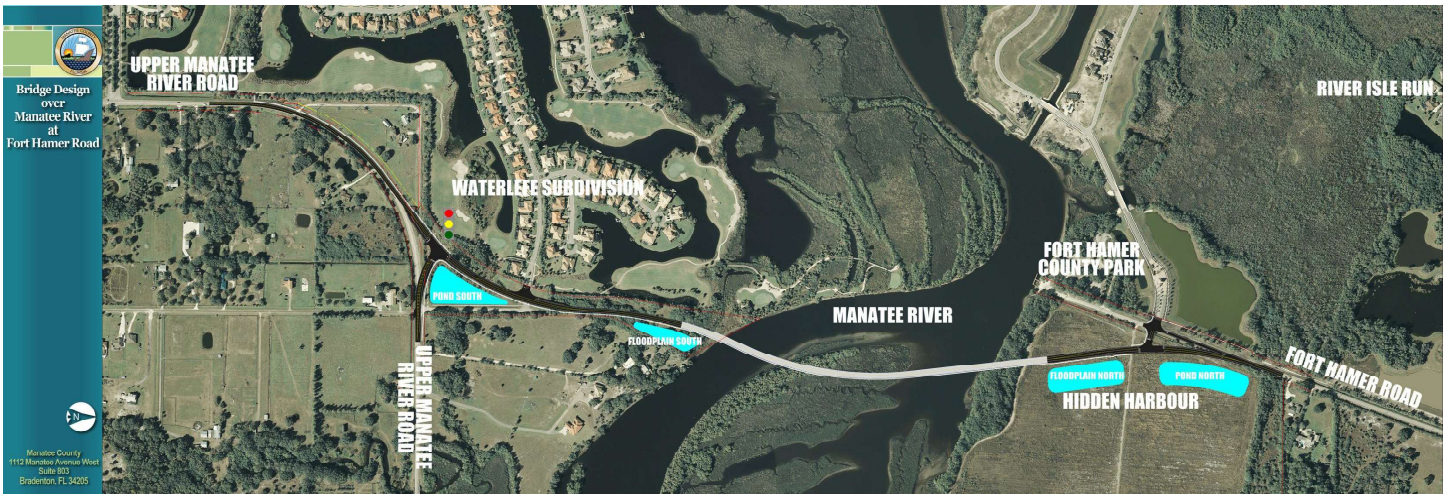
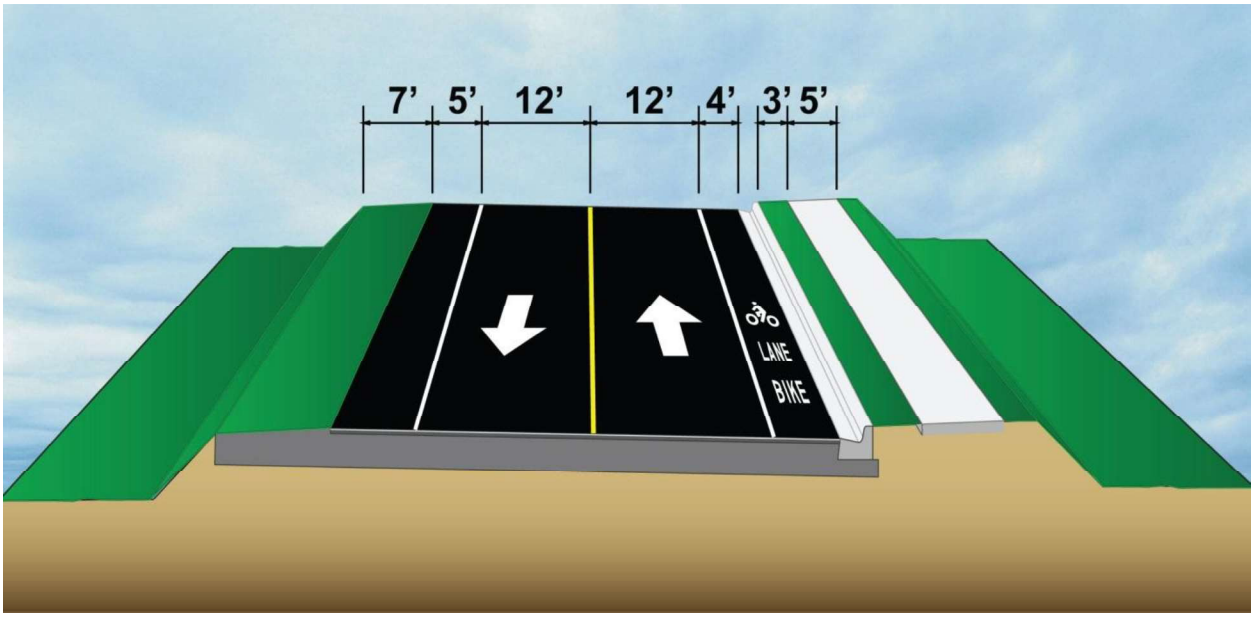


FIGURE 1-2
FORT HAMER ALTERNATIVE
CONCEPTUAL PLAN VIEW OF
BRIDGE AND APPROACHES

FIGURE 1-3
FORT HAMER ALTERNATIVE TYPICAL SECTIONS

ROADWAY TYPICAL SECTION



BRIDGE TYPICAL SECTION

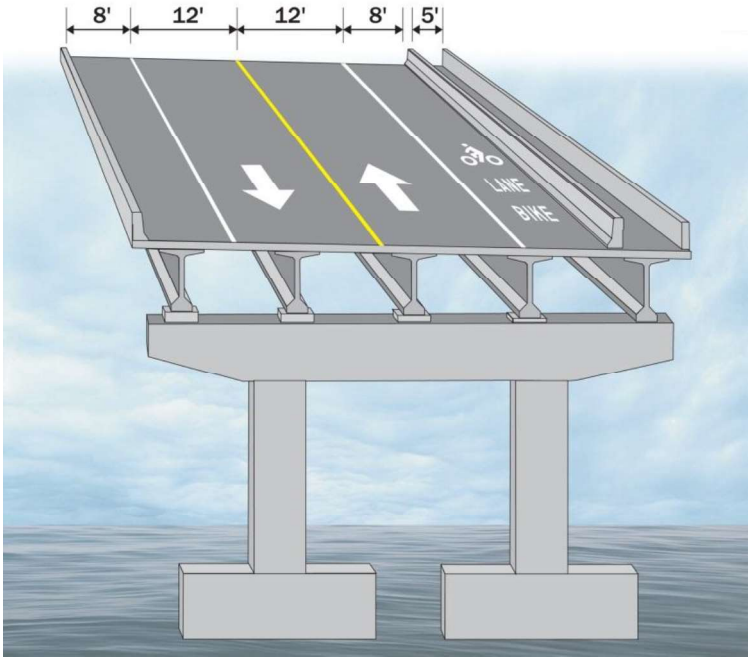
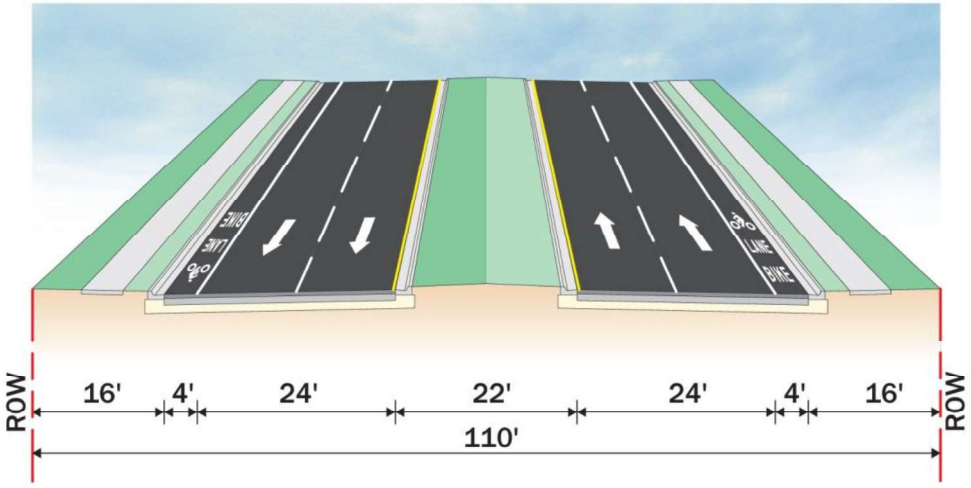
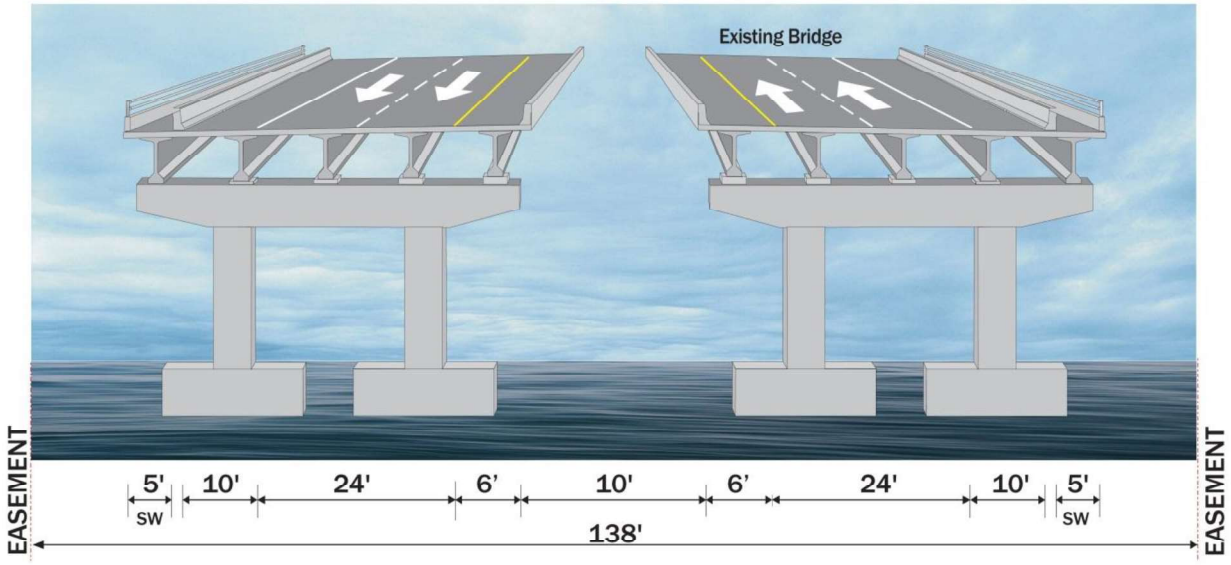


FIGURE 1-4
RYE ROAD ALTERNATIVE TYPICAL SECTIONS

ROADWAY TYPICAL SECTION



BRIDGE TYPICAL SECTION



Section 2.0
HYDROLOGIC FEATURES AND PHYSIOGRAPHIC REGIONS

The project area is located in central Manatee County and lies within the Gulf Coastal Lowlands physiographic region. The region includes an area covered with undifferentiated surficial sands and clays that range in elevation from near sea level to approximately 45 feet. The flat topography supports pine-palmetto flatwoods interspersed with numerous wetlands. A copy of the U.S. Geological Survey (USGS) topographic map for the project area is shown on **Figure 2-1**. Soils in these flat areas are typically acidic because of the dominant types of vegetation and lack of underground drainage. Groundwater is typically 10 to 40 inches below ground surface in the vicinity of the project. The dominant surface water feature within the project area is the Manatee River, which bisects the study corridor between Upper Manatee River Road to the south and Fort Hamer Road to the north.

Cross section E-E' runs north to south through central Manatee County (see **Figure 2-2**). The aquifers depicted in this section contain potable and non-potable water. The subsurface sequence of strata consists of sands, sandstone, shell beds, limestone, and dolomite. The formations shown range in age from Eocene to Recent and include the Ocala Limestone, Suwannee Limestone, Tampa Limestone, Hawthorn Group, and undifferentiated surficial sediments. Three major aquifers exist within this sequence of rocks. The upper surficial aquifer occurs in the sediments of the undifferentiated deposits, the Upper Floridan occurs in the Suwannee Limestone and Lower Floridan in the Ocala Limestone. However, the majority of the potable water in this area is obtained from Lake Manatee reservoir.

According to the *Soil Survey of Manatee County, Florida* published by the U.S. Department of Agriculture (USDA), Soil Conservation Service, the predominant soil type along the project corridor is Eau Gallie fine sand. A significant part of the remaining area is classified as Wabasso fine sand and the frequently flooded Felda Wabasso (loamy marine) sands.

There are no known permanent monitoring wells along the study corridor. County water and sewer are provided for areas east to Rye Road, which includes the entire study corridor. However, some residents may continue to use their private water supply wells.

FIGURE 2-1
TOPOGRAPHIC MAP

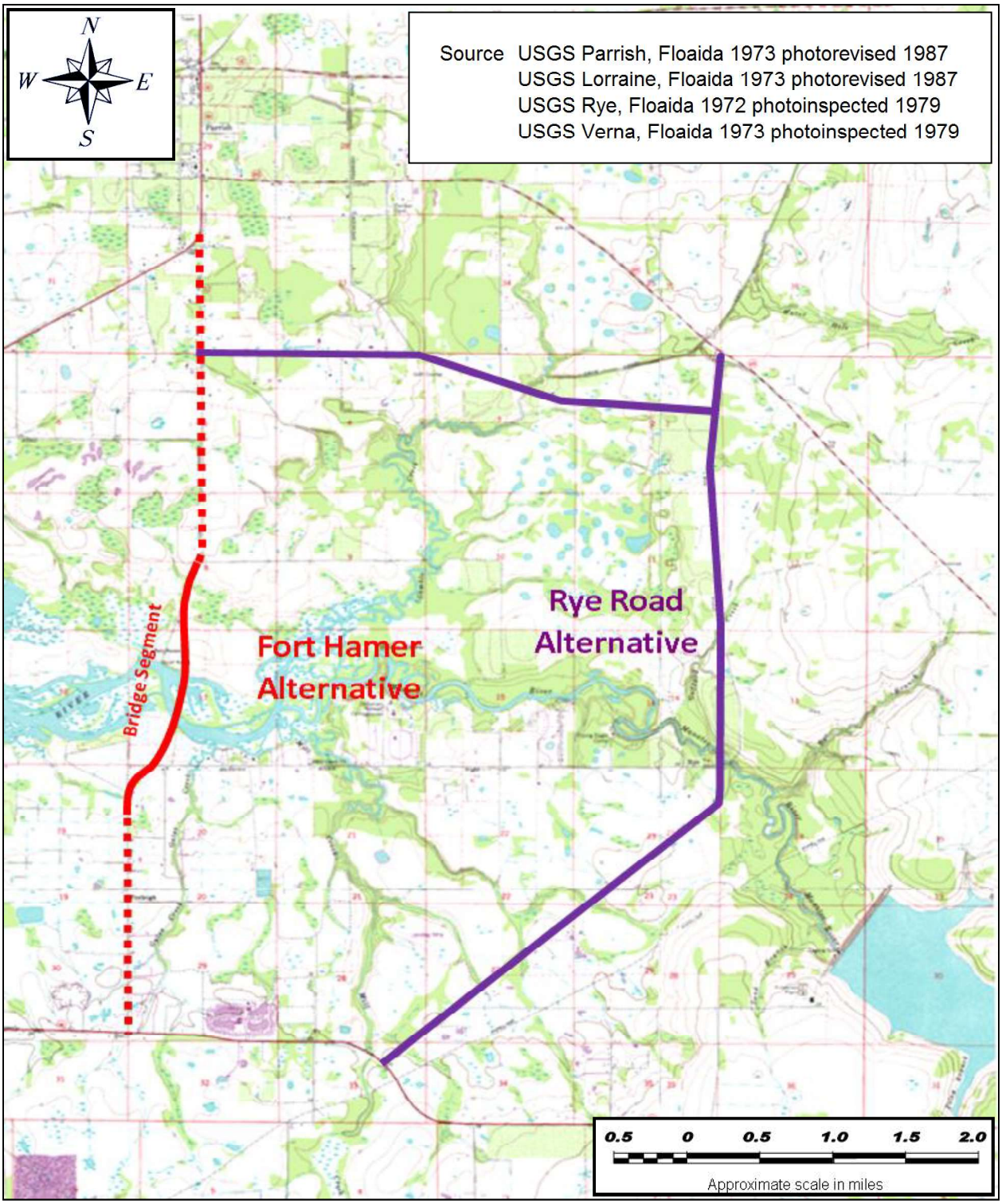
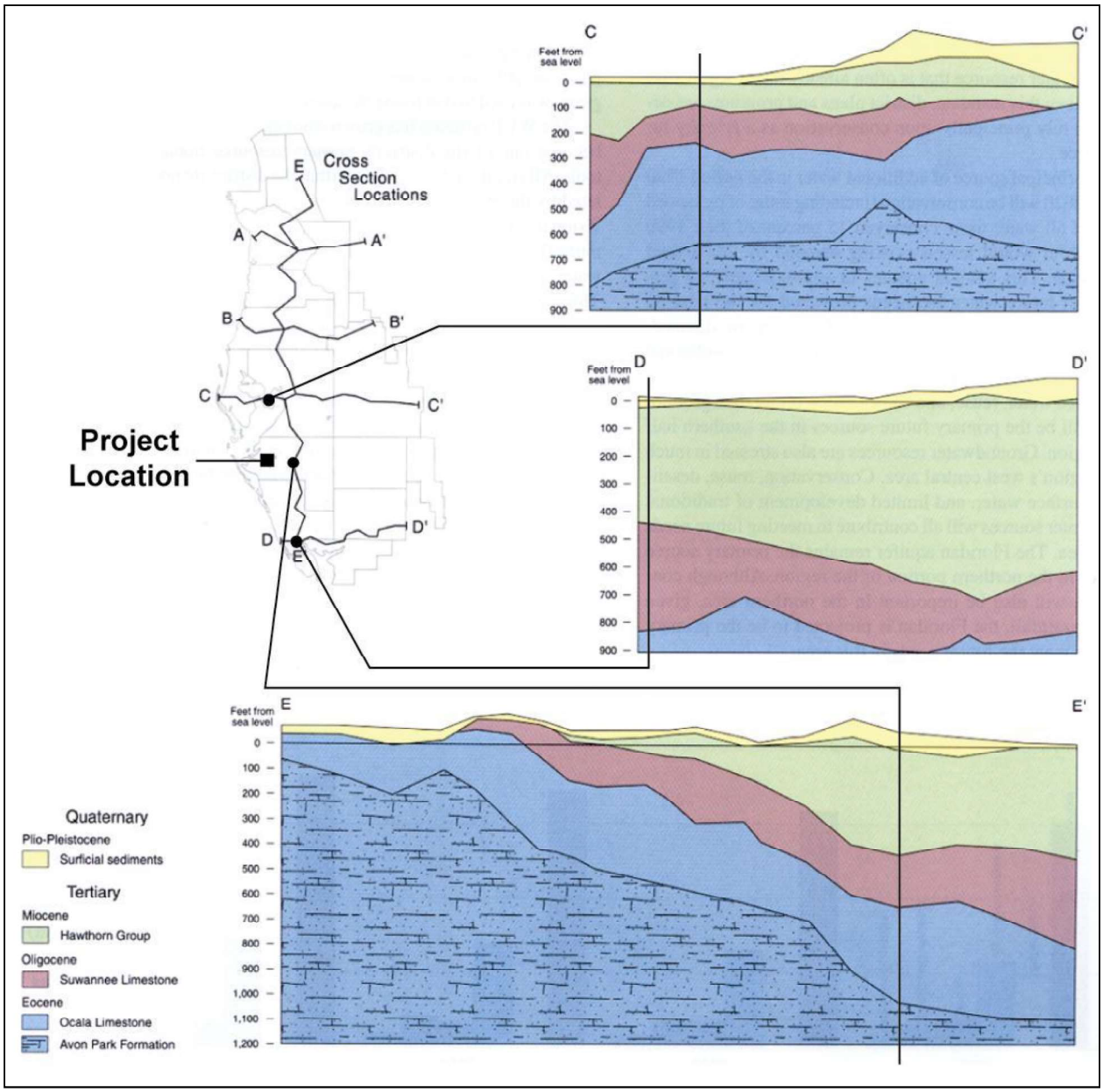


FIGURE 2-2
GEOLOGIC CROSS SECTION



Section 3.0
ASSESSMENT METHODOLOGY

There is no single comprehensive source of information available that identifies known or potential sources of environmental contamination along either of the build alternatives. Therefore, to identify and evaluate sites containing hazardous materials, petroleum products, or other sources of potential environmental contamination in these areas, the following tasks were conducted:

- Historical aerial photographs of the project area reviewed for indications of properties or businesses that might have been involved with potential environmental contamination. Historical aerial photographs dated 1940, 1951, 1957, 1970, 1973, 1980, 1991, 1998, and 2003 were reviewed for the Fort Hamer Alternative and Rye Road Alternative. Historical aerial photographs dated 1969, 1998, 2004, 2006, and 2009 were reviewed for the Fort Hamer Alternative Bridge section. Select views or commentaries of these aerials are contained in Appendix A.
- Review of readily available USGS topographic maps (Parrish, Rye, Lorraine, and Verna) for the project area. A composite topographic map for the project area is provided as Figure 2-1.
- Review of city directories and Sanborn Insurance Maps was attempted, however, none were available for the project area.
- In-the-field surveys were conducted from accessible right-of-way (ROW) adjacent to the proposed corridors. The field surveys for the Fort Hamer Alternative were conducted in November 1999 and September 2000, with the bridge section surveyed October 2010. Surveys for the Rye Road Alternative were conducted in September 2006. Copies of site photographs are presented in Appendix B.
- Review of Florida Department of Environmental Protection (FDEP) OCULUS database and Manatee County Environmental Management Department (MCEMD) cleanup and inspection files for those sites along each build alternative that have reported environmental contamination or have the potential to impact the alternatives. Photocopies of select groundwater flow and location maps from this regulatory information are presented in Appendix C.
- Government Databases Computer Search - Conducted by Environmental Data Management, Inc. (EDM). The EDM report for the Fort Hamer Alternative is dated February 9, 2000 (Appendix D-1), with the bridge section report dated October 26, 2010 (Appendix D-2). The report for the Rye Road Alternative is dated September 6, 2006 (Appendix D-3). Copies of these EDM Database Reports are provided in Appendix D. This screening tool maps the locations of sites with known or potential environmental liabilities based on information

contained in various federal and state government databases. These databases include but not limited to:

- National Priorities List (NPL);
- Comprehensive Environmental Response, Compensation, and Liability Information System (CERCLIS);
- No Further Remedial Action Planned (NFRAP);
- Emergency Response Notification System (ERNS);
- U.S. Environmental Protection Agency's (EPA's) Resource Conservation and Recovery Information System (RCRIS) Handlers with Corrective Action (CORRACTS);
- *Resource Conservation and Recovery Act of 1976* (RCRA) Treatment, Storage and/or Disposal Sites (TSD);
- RCRA large quantity generator (LQG), small quantity generator (SQG), conditionally exempt small quantity generator (CESQG), and Transporters (NONTSD);
- Florida State Funded Action Sites (STNPL);
- Florida Sites List (STCERC);
- Solid Waste Facilities (SLDWST);
- Leaking Underground Storage Tanks (LUST);
- Underground/aboveground Storage Tanks (TANKS); and
- Florida Dry Cleaners (DRY).

Copies of the EDM reports are contained in Appendix D.

Each of the sites identified as a result of these tasks was then assigned a degree of risk for potential contamination impact: "No," "Low," "Medium," or "High." These ratings are based on the following criteria outlined in Part 2, Chapter 22 of the FDOT *Project Development and Environment (PD&E) Guidelines*:

- "No" - After a review of all available information, there is nothing to indicate contamination issues on the parcel. Although, contaminants may have been handled on the parcel, all readily available information (FDEP reports, monitoring wells, water, and soil samples, etc.) indicates contamination issues are not expected.
- "Low" - The former or current operation has a hazardous waste generator ID number or deals with potential contaminants. However, based on all available information, there is no reason to believe there would be any involvement with contamination. This is the lowest possible rating a gasoline station operating within current regulation could receive.
- "Medium" - After a review of all available information (reports, Notice of Violation, consent orders, etc.), indications were found that identify known soil and/or water contamination. It may mean that the problem does not need remediation, is being remediated (i.e., air stripping of the groundwater, etc.), or that continued monitoring is required. A recommendation is made for each

parcel within this category as to its acceptability for use within the proposed action, what action might be required if the parcel is acquired, and the possible alternative if there is a need to avoid this parcel.

- "High" - After a review of all available information, there is a potential for contamination issues on the parcel. Further assessment will be required after alignment selection to determine the actual presence and/or levels of contamination and the need for remedial action. A recommendation must be included for what further assessment is required. Conducting the actual site assessment is not expected to begin until the alignment is defined. However, circumstances may require screening assessment (i.e., collecting soil or water samples for laboratory analysis that may be necessary to determine the presence and/or levels of contamination) to begin earlier. Parcels that were previously used as gasoline stations and have not been evaluated or assessed would receive this rating.

Section 4.0
PROJECT IMPACTS AND REGULATORY STATUS

4.1 FORT HAMER ALTERNATIVE FROM SR 64 TO US 301

A total of 10 sites have been identified within this alternative as having the potential for hazardous materials and/or petroleum contamination as defined by regulatory agencies. The location of each site in the Fort Hamer Alternative and Rye Road Alternative is shown on **Figure 4-1** and the summary of potentially contaminated sites for the Fort Hamer Alternative is provided in **Table 4-1**. The risk potentials for this alternative are as follows: six "Low" risk sites, three "Medium" risk sites, and one "High" risk site. Each of the "Low," "Medium," and "High" ranked sites are discussed more thoroughly in the sections that follow. Note that of these 10 sites, only one (Site No. 5) is located within or adjacent to the construction limits of the Fort Hamer Alternative.

- **Site No. 1 (Greenfield Plantation Golf Course Maintenance Facility - Upper Manatee River Road)** - This site is an existing golf course maintenance facility located adjacent and west of the existing ROW. A site photograph and location map with photograph direction is provided on **Page B-1** in **Appendix B**. This facility is not registered with FDEP but typically could be involved with petroleum products, solvents, metals (arsenic), pesticides, and herbicides. A review of the historical aerial photographs indicates that this site has only been in existence since after 1998. No violations were found associated with this site. Based on this information and the fact that this facility is only two to three years old, the risk rating is "Low" for this alternative.

- **Site No. 2 (Moore Property Agricultural Facility - 108 Upper Manatee River Road)** - This site is an existing agricultural facility located adjacent and west of the existing ROW. A site photograph and location map with photograph direction is provided on **Pages B-2 and 3** in **Appendix B**. This facility is registered with FDEP (ID# 9700838) as having had one 2,000-gallon gasoline underground storage tank (UST), which was removed in 1997. A Discharge Notification Report (DNR) was filed in 1997 and cleanup is listed as active. The site is also listed as eligible for state assisted cleanup in the Petroleum Contamination Participation Program (PCPP) with a score of 45. Based on this information and the site's distance from the ROW, the risk rating is "Medium" for this alternative. However, no roadway improvements are anticipated for areas adjacent to this site.

FIGURE 4-1
POTENTIALLY CONTAMINATED SITE LOCATION MAP – BOTH BUILD ALTERNATIVES

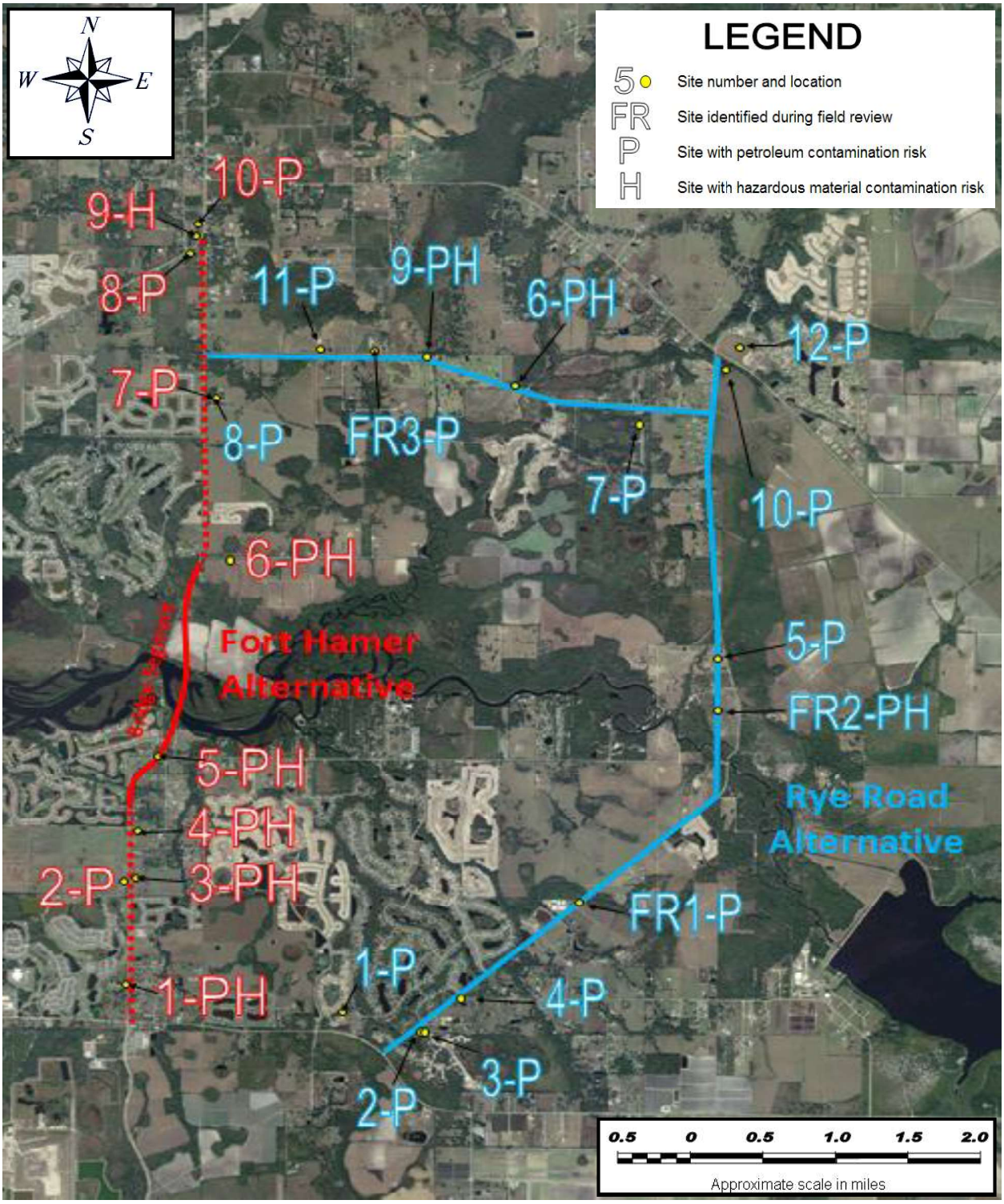


TABLE 4-1
POTENTIALLY CONTAMINATED SITES – FORT HAMER ALTERNATIVE

Site No.	Site Name Description Address	Facility ID #	Comments	Concern	Location	Risk Rating
1	Greenfield Plantation - Golf Course Maintenance Facility Upper Manatee River Road Manatee County	110009100944 FRS	Active golf course maintenance facility.	Solvents Waste Oils Herbicides Pesticides Arsenic	Adjacent to ROW West	Low
2	Moore Property 108 Upper Manatee River Road Manatee County	9700838 LUST	Active agricultural facility, DNR-07/97, Score-45, CU-active. One 2,000-gallon UST. Eligible - PCPP.	Gasoline	Adjacent to ROW West	Medium
3	Moore Property II 131 Upper Manatee River Road Manatee County	110035666516 FRS	Active agricultural facility, three 300-gallon skid mounted ASTs.	Gasoline Diesel	Adjacent to ROW East	Low
4	Dave Ballard Property 257 Upper Manatee River Road Manatee County	Not Found	Active agricultural facility, one 500-gallon trailer mounted AST.	Gasoline Diesel Pesticides	East 350 feet from ROW	Low
5	Bay Colony Gateway Inc. Property 11225 Upper Manatee River Road Manatee County	Not Found	Former golf cart and mower maintenance and storage area.	Gasoline Waste Oils Batteries Pesticides	Within ROW	Medium
6	Mulholland Road Farm Mulholland Road and Fort Hamer Road Manatee County	9300757 TANKS	Former agricultural facility, three 550-gallon diesel ASTs, one 1,000 gallon diesel AST.	Diesel	East 450 feet from ROW	Low
7	Cross Creek Homes Formerly Fort Hamer Farms (aka Rawl's Custom Cutting and Wrapping) 4402 Fort Hamer Road Manatee County	8623998 TANKS	Currently Cross Creek Homes (under development) former cattle ranch residences and structures removed, one 550-gallon diesel AST (active), numerous derelict ASTs, maintenance area on-site. Site assessment on going.	Diesel Oils Solvents PCBs	Adjacent to ROW East	Medium
8	Pete Herrera Properties 12107 60th Street East and 12105 US 301 Manatee County	9201948 LUST	Former auto maintenance facility DNR-05/92, Score-44, CU-inactive, four 4,000-gallon diesel USTs. Eligible - ATRP.	Diesel Waste Oils Solvents Batteries Metals	Within ROW	High
9	United Agri Products 12120 US 301 Manatee County	9401161 TANKS FL0000670026 FRS(SSTS)	Active agricultural supply facility, one 4,500-gallon pesticide AST.	Pesticide	Adjacent to ROW Northwest	Low
10	Manatee County Parrish Fuel Site 12132 US 301 Manatee County	9801702 TANKS	Active fire station, one 15,000-gallon diesel AST.	Diesel	Adjacent to ROW West	Low

AST - Above Ground Storage Tank.
ATRP - Abandoned Tank Restoration Program
CU - Cleanup or Cleanup Status.
DNR - Discharge Notification.
FRS – Facility Registry System
LUST - Leaking Underground Storage Tank.
PCPP - Petroleum Contamination Participation Program
SSTS - Section Seven Tracking System (Pesticides).
TANKS – Registered Tanks
UST - Underground Storage Tank.

- **Site No. 3 (Moore Property Agricultural Facility - 131 Upper Manatee River Road)** - This site is an existing agricultural facility located adjacent and east of the existing ROW. A site photograph and location map with photograph direction is provided on **Pages B-4 and B-5** in **Appendix B**. This facility is not registered with FDEP, but during field reconnaissance, three 300-gallon skid-mounted aboveground storage tanks (ASTs) were noted on site. No violations were found associated with this site. Based on this information, the risk rating is "Low" for this alternative.

- **Site No. 4 (Dave Ballard Property - 257 Upper Manatee River Road)** - This site is an existing agricultural facility located 350 feet to the west of the existing ROW. A site photograph and location map with photograph direction is provided on **Page B-6** in **Appendix B**. This facility is not registered with FDEP but has a 500-gallon trailer-mounted AST, which could contain petroleum fuel or pesticides. No violations were found associated with this site. Based on this information, the risk rating is "Low" for this alternative.

- **Site No. 5 (Bay Colony Gateway, Inc. Property - 11225 Upper Manatee River Road)** - This site is a former storage and maintenance area for golf carts and lawn mowers located within the proposed roadway improvement area. A site photograph and location map with photograph direction is provided on **Pages B-7 and b-8** in **Appendix B**. This facility is not registered with FDEP but typically could have been involved with petroleum products, solvents, and batteries. Based on historical aerial review and in-the-field observations, this maintenance area was probably temporary and was in existence for no more than 2 to 3 years. No violations were found associated with this site. The site was observed to contain one storage trailer and soil waste (vegetative landscape clippings). Based on this information, the risk rating is "Medium" for the bridge section of this alternative.

- **Site No. 6 (Mulholland Road Farm - Mulholland Road and Fort Hamer Road)** - This site is an existing agricultural facility who's tanks are located 450 feet to the east of the existing ROW. A site photograph and location map with photograph direction is provided on **Pages B-9 and B-10** in **Appendix B**. This facility is registered with FDEP (ID# 9300757) as having one 1,000-gallon diesel AST associated with a back-up generator. However, during field reconnaissance, at least three additional 550-gallon diesel ASTs were noted. No reported discharges or violations were found associated with this site. Based on this information and the fact that the observed ASTs are at least 450 feet from the existing ROW, the risk rating is "Low" for this alternative.

- **Site No. 7 [Cross Creek Homes (formerly Fort Hamer Farms, a.k.a. Rawl's Custom Cutting & Wrapping) - 4402 Fort Hamer Road]** - This site is a former agricultural facility being developed as the Cross Creek residential community. A site photograph and location map with photograph direction is provided on **Pages B-11 and B-12** in **Appendix B**. This facility is registered with FDEP (ID# 8623998) as having one 550-gallon diesel AST. During field reconnaissance, numerous derelict ASTs of unknown contents, an old transformer, and a maintenance area were noted. No reported discharges or violations were found associated with this site. The entire site has been cleared and is being developed as part of the Cross Creek development. Based on this information, the risk rating is "Medium" for this alternative. However, no roadway improvements are anticipated for areas adjacent to this site.

- **Site No. 8 (Pete Herrera Properties - 12107 60th Street East and 12105 US 301)** - This site is an active auto maintenance facility with former fueling capabilities located within a former proposed roadway improvement area on US 301. A site photograph and location map with photograph direction is provided on **Page B-13** in **Appendix B**. The site is registered with FDEP (ID# 9201948) as having had four 4,000-gallon diesel USTs that were removed in 1992. A DNR was filed in 1992 and cleanup is listed as inactive. The site is also listed as eligible for state assisted cleanup as a part of the Abandoned Tank Restoration Program (ATRP) with a score of 44. To date, no assessment of any contamination has been conducted on this site. Based on this information, the risk rating is "High" for this alternative. However, no roadway improvements are anticipated for areas adjacent to this site.

- **Site No. 9 (United Agri Products - 12120 US 301)** - This site is an existing agricultural supply facility located 150 feet to the northeast of a former proposed roadway improvement area on US 301. A site photograph and location map with photograph direction is provided on **Page B-14** in **Appendix B**. This facility is registered with FDEP (ID# 9401161) as having one 4,500-gallon pesticide AST and is listed in the EPA's FINDS list as a pesticide storage facility. No reported discharges or violations were found associated with this site. Based on this information, the risk rating is "Low" for this alternative.

- **Site No. 10 (Manatee County Parrish Fire Station Fuel Site - 12132 US 301)** - This site is an existing fire station with fueling capabilities located 150 feet to the north of the proposed roadway improvement area. A site photograph and location map with photograph direction is provided on **Page B-15** in **Appendix B**. This facility is registered with FDEP (ID# 9801702) as having one 15,000-gallon diesel AST. No reported discharges or violations were found associated with this site. Based on this information, the risk rating is "Low" for this alternative.

4.2 RYE ROAD ALTERNATIVE FROM SR 64 TO US 301

A total of 14 sites have been identified along this alternative as having the potential for hazardous materials and/or petroleum contamination as defined by regulatory agencies. The location of each site located within the Rye Road Alternative is shown previously on Figure 4-1 and the summary of potentially contaminated sites for the Rye Road Alternative is provided in **Table 4-2**. The risk potentials for this alternative are as follows: 13 "Low" risk sites, one "Medium" risk site, and no "High" risk sites. Each of the "Low" and "Medium" risk rated sites are discussed more thoroughly in the sections that follow.

- **Site No. 2 (Coddington Backhoe Service - 14109 Rye Road)** - The site address could not be found in the Manatee County Property Appraisers website or in the field. The historical address is located within a residential area of the project corridor. The site contact telephone number is currently in use by another party. Historical aerials suggest that the facility was located at the southeast corner of Rye Road and 15th Drive East. Structures at this location are located 120 feet to the east of the existing ROW. This facility is registered with FDEP (ID# 8839641) as having had one 500-gallon non-retail vehicular diesel AST currently in service. The AST was not observed in the field review. The MCEMD indicates that the AST is unregulated and that no files are available for the facility. The FDEP active tanks list does not contain the site. Based on this information and the site's distance from the ROW and the likely inactive status, the risk rating is "Low" for this alternative.

- **Site No. 3 (L & B Hydroseeding - 14119 Rye Road)** - The site address could not be found in the Manatee County Property Appraisers website or in the field. The historical address is located within a residential area of the corridor and may be at the same location as Site No. 2. The site contact telephone number is currently inactive. Historical aerials suggest that the facility was located at the southeast corner of Rye Road and 15th Drive East. Structures at this location are located 120 feet to the east of the existing ROW. This facility is registered with FDEP (ID# 8839613) as having had one 300-gallon non-retail vehicular diesel AST currently in service. The AST was not observed in the field review. The MCEMD indicates that the AST is unregulated and that no files are available for the facility. The FDEP active tanks list does not contain the site. Based on this information, the site's distance from the ROW, and the likely inactive status, the risk rating is "Low" for this alternative.

- **Site No. 4 (Manatee County Booster Pump - 14695 Waterline Road)** - This site is an existing wastewater pump facility located adjacent and southeast of the existing ROW. A site photograph and location map with photograph direction is provided on **Page B-16** in **Appendix B**. This facility is registered with FDEP (ID# 9807894) as having had one 3,000-gallon diesel AST installed in 2005 and currently in service. The AST fuels a backup emergency generator associated with the facility's wastewater pumps. The double-walled AST is located approximately 120 feet southeast of the existing Rye Road ROW. No violations were found associated with this site. Based on the age and type of fueling system, the risk rating is "Low" for this alternative.

TABLE 4-2
SUMMARY OF POTENTIALLY CONTAMINATED SITES – RYE ROAD ALTERNATIVE

Site#	Site Name/Description/Address	Facility ID#	Comments	Concern	Location	Risk Rating
1	Taniguchi Yukinori Property 1450 Brambling Court Bradenton	9807716 LUST	Existing residential development, DNR-10/05, Score-5, CU work status-active, Emergency response spill site.	Diesel	West 1,500 feet from ROW	No
2	Coddington Backhoe Service 14109 Rye Road East Bradenton	8839641 TANKS	Former equipment maintenance facility. One 500 gallon diesel AST reported as in service on the FDEP storage tanks database but not listed on the active site database, address not found in field or property appraisers. The MCEMD indicated that the tank is not regulated and there were no files available for review. Review of historical aerial photographs suggests a likely location 120 feet to the east of the existing Rye Road ROW.	Diesel Solvents Waste Oils	East 120 feet from ROW	Low
3	L & B Hydroseeding 14119 Rye Road Bradenton	8839613 TANKS	Former agricultural supply facility and possible, One 300 gallon diesel AST reported as in service on the FDEP storage tanks database but not listed on the active site database, Address not found in field or property appraisers. The MCEMD indicated that the tank is not regulated and there were no files available for review. Review of historical aerial photographs suggests a likely location 120 feet to the east of the existing Rye Road ROW.	Diesel	East 120 feet from ROW	Low
4	Manatee County Rye Road Booster Pump 14695 Waterline Road Bradenton	9807894 TANKS	Active water pump emergency generator, one 3,000-gallon diesel AST installed in 2005 currently in service, AST observed 120 feet from ROW in field.	Diesel	Adjacent to ROW Southeast	Low
5	River Reach Associates LLC a.k.a. Sonshine Ranch a.k.a. Bluebird Ranch 1501 (1531) North Rye Road Parrish	8838907 LUST TANKS	Former cattle ranch, Currently being developed as residential, one 560 gallon diesel AST removed in 1993, one 500 gallon diesel AST removed in 1991, several unregistered USTs noted in FDEP OCULUS database, two UST locations noted with soil and/or groundwater impacts during closure, one to distant to be of concern, one within 100 feet of proposed corridor, DNR-02/93, IRA-1993, CAR-1994, groundwater gradient to west and project ROW, MOP-1995, SA-2001, NFA-2001. Former tank locations could not be determined during field review.	Diesel	Within ROW UST East 100 feet from ROW	Low
6	Wilderness Estates on Gamble Creek 14855 Golf Course Road Parrish	8626214 TANKS	Formerly Calgene Fresh Golf Course Farm, former citrus grove with five diesel ASTs registered and reported removed between 1991 & 1999. Former AST locations could not be determined during field review.	Diesel Herbicides Pesticides Metals	Adjacent to ROW South and North	Low
7	Gamble Creek LC Property Golf Course Road west of Rye Road Parrish	9805383 TANKS	Currently Twin Rivers subdivision, former cattle ranch agricultural fields. Two 500 gallon diesel ASTs removed in 2001, AST locations over 1,700 feet south of the project corridor, Tanks not regulated, No file at MCEMD.	Diesel	Adjacent to ROW South	Low
8	Cross Creek Homes Formerly Fort Hamer Farms and Rawl's Custom Cutting and Wrapping 4402 Fort Hammer Road Parrish	8623998 TANKS	Currently Cross Creek Homes (under development), former cattle ranch residences and structures recently removed, one 500-gallon diesel AST recently removed, Former AST location could not be determined in field review, tank not regulated, no file at MCEMD.	Diesel	South 2,000 feet from ROW	Low
9	Mellon Holdings Palmetto Pines Golf Course 14355 Golf Course Road Parrish	8734011 TANKS	Existing golf cart storage and golf shop adjacent to project ROW, maintenance area 1,700 feet to the south. One 500-gallon leaded gas UST removed in 1990, one 550-gallon leaded gas AST removed in 1990, one 250-gallon gas AST currently in service, one 1,000-gallon diesel AST currently in service.	Diesel Leaded Gas Batteries Herbicides Pesticides Metals	Adjacent to ROW South and North	Low

Continued on next page

TABLE 4-2 (CONTINUED)
SUMMARY OF POTENTIALLY CONTAMINATED SITES – RYE ROAD ALTERNATIVE

Site#	Site Name/Description/Address	Facility ID#	Comments	Concern	Location	Risk Rating
10	Rutland Ranch Rye Road & CR 675 South Myakka City	9202926 TANKS	Appears to be a nature reserve managed by SWFWMD, former cattle ranch. Four diesel pump generator ASTs registered as installed in 1991 and removed in 1999, two ASTs over 0.7 miles to the east, one 1.2 miles to the west and one AST location could not be determined.	Diesel	East and West of ROW	Low
11	Gamble Creek Estates LLC (Gamble Creek Beefmasters) Golf Course Road at Gamble Creek Road Parrish	8624403 TANKS	Currently a residential subdivision under development, former cattle ranch, one 4,000 gallon leaded gasoline UST installed 1981 and removed in 1988. Former AST location could not be determined during field review.	Leaded Gas	South 2,700 feet from ROW	Low
12	Southern Broadcast Corp WWSB 17020 SR 675 Myakka City	9601127 TANKS	Active transmission tower w/backup generator. One 800-gallon diesel AST removed in 2000, one 2,000-gallon diesel AST installed in 2000 and currently in service, AST observed in field.	Diesel	Northeast 800 feet from ROW	Low
FR-1	Braden River Fire Station No. 3 150 Rye Road Bradenton	Not Found	Active fire station, no fleet fueling observed. Backup emergency generator (with an integral tank within the pedestal) observed at west corner of the fire station structure – 130 feet from ROW.	Diesel	Adjacent to ROW Northwest	Low
FR-2	River Reach Associates LLC 1400 block of North Rye Road Parrish	Not Found	Former citrus grove, proposed for development as residential. Possible AST and staging area within ROW noted on historical aerial photography. No access to site during field review.	Diesel Herbicides Pesticides Metals	Within Proposed ROW	Med
FR-3	ECO Corporation 13620 Golf Course Road Parrish	Not Found	Former nursery. Appears as a nursery in historical aerials. Fleet fueling AST was observed during field review 60 feet north of the existing Golf Course Road ROW.	Gasoline Diesel Herbicides Pesticides	Adjacent to ROW North	Low

AST - Above Ground Storage Tank.
CAR - Contamination Assessment Report
CU - Cleanup or Cleanup Status
DNR - Discharge Notification.
FDEP – Florida Department of Environmental Protection
FR - Field Review
IRA - Initial Remedial Action
LUST - Leaking Underground Storage Tank.
MCEMD - Manatee County Environmental Management Department
MOP - Monitoring Only Plan
NFA - No Further Action
ROW – Right-of-Way
SA - Site Assessment
SWFWMD – Southwest Florida Water Management District
UST - Underground Storage Tank.

- **Site No. 5 (Sonshine Ranch also known as Bluebird Ranch - 1501 Rye Road)** - This site is a former cattle ranch currently under redevelopment as residential (River Reach Associates, LLC at 1531 Rye Road). This facility is registered with FDEP (ID# 8838907) as having one 560-gallon diesel AST removed in 1993 and one 500-gallon diesel AST removed in 1991. The ASTs were associated with well pump generators. The actual locations of the former ASTs could not be determined and were not observed in the field.

  Based on assessment reports downloaded from the FDEP OCULUS website, the ranch historically contained several diesel USTs associated with well pump generators. During closure assessment activities, two of the locations were discovered to contain impacted soil and/or groundwater, which resulted in the submittal of a Discharge Notification Form (DNF) in 1993. One of the USTs was located approximately ½ mile to the west of the proposed corridor and is not a source of potential concern to the project.

One 500-gallon UST, located approximately 50 feet west of Rye Road is also located approximately 100 feet east of the alternative corridor. The diesel UST, reportedly used to fuel a well pump generator, was removed in 1991. The former UST location could not be determined in the September 2006 field review. During a 1993 closure assessment/initial remedial action, soil and groundwater impacts were discovered. In addition, 140 tons of impacted soil were removed and thermally treated off-site. The site was approved for a one year monitoring only plan in 1994. Only one round of groundwater sampling was conducted in June 1994. The groundwater samples collected from the source well and one down gradient well were detected to contain ethyl-benzene and total volatile organic aromatics at concentrations above the guidance concentrations that were in place at the time. The surficial groundwater flow direction was shown to be to the west and toward the alterantive corridor.

The site was re-assessed in 2001, at which time only trace levels of ethyl-benzene, total xylenes, and napthalenes were detected in the source well. No further action (NFA) was proposed and the FDEP approved a Site Rehabilitation Completion Order (SRCO) for the facility in 2001. Based on this information, the risk rating is "Low" for this alternative.

- **Site No. 6 (Wilderness Estates on Gamble Creek - 14855 Golf Course Road)** - This site is an existing inactive citrus grove. This facility is registered with FDEP (ID# 8626214) as having five diesel ASTs removed in 1991, 1994 and 1999. The ASTs were associated with well pump generators. The former AST/well locations could not be determined in the September 2006 field review. However, historical aerial photographs suggest that the pump houses were located between 250 and 850 feet from the alternative corridor. Because Gamble Creek bisects the grove, these locations are likely cross gradient to the existing Golf Course Road ROW. No reported discharges or violations were found associated with this site. Based on this information and the fact that the assumed locations of the ASTs are at least 250 feet from the existing ROW, the risk rating is "Low" for this alternative.

- **Site No. 7 (Gamble Creek LC Property – Golf Course Road at Twin River Trail)** - This site is a former agricultural facility and currently the Twin Rivers Residential subdivision. This facility is registered with FDEP (ID# 9805383) as having two 500-gallon diesel ASTs removed in 2001. Maps depict the AST locations as over 1,700 feet to the south of the existing Golf Course Road ROW. Based on this distance, the risk rating is "Low" for this alternative.

- **Site No. 8 (Fort Hamer Farms a.k.a. Rawl's Custom Cutting and Wrapping - 4402 Fort Hamer Road)** - This site is a former cattle ranch and currently being redeveloped as the Cross Creek residential subdivision. A site photograph and location map with photograph direction is provided on **Pages**

B-7 and B-8 in **Appendix B**. This facility is registered with FDEP (ID# 8623998) as having one 550-gallon diesel AST removed in 2006. The former AST was located over 2,000 feet to the south of the existing Golf Course Road ROW. No reported discharges or violations were found associated with this site. Based on distance, the risk rating is "Low" for this alternative.

- **Site No. 9 (Palmetto Pines Golf Course Maintenance Facility - 14355 Golf Course Road)** - This site is an existing golf course office/pro-shop and golf cart staging/recharging facility located within 100 feet north of the existing Golf Course Road ROW. A site photograph and location map with photograph direction is provided on **Page B-17** in **Appendix B**. This facility has one fueling UST and three ASTs registered with FDEP (ID# 8734011). Two leaded gasoline tanks (AST and UST) were removed in 1990. One gasoline and one diesel AST remain in service. The tanks are/were located 1,700 feet south of the existing Golf Course Road ROW. The golf course maintenance facility is also located in this area. No violations were found associated with this site. Based on distance the risk rating is "Low" for this alternative.

- **Site No. 10 (Rutland Ranch - Rye Road and County Road 675)** - This site is a former cattle ranch and agricultural facility. Former citrus groves within the ranch on the west side of Rye Road and along Golf Course Road are currently rural residential. Pastureland and fields to the west of Rye Road are generally under development with residential subdivisions or remain undeveloped. Former pastureland and fields of the ranch to the east of Rye Road are currently managed by the Southwest Florida Water Management District (SWFWMD). This ranch is registered with FDEP (ID# 9202926) as having four diesel ASTs installed in 1991 and removed in 1999. The ASTs were associated with well pump generators. The former AST/well locations could not be determined in the September 2006 field review. However, a review of MCEMD files identified the location of three of the ASTs, all of which are over ¾ of a mile from the existing Rye Road ROW. No reported discharges or violations were found associated with this site. Based on this information, the risk rating is "Low" for this alternative.

- **Site No. 11 (Gamble Creek Beefmasters - Golf Course Road at Gamble Creek Road)** - This site includes pasturelands on the north and south sides of Golf Course Road. Land to the north, historically containing the facility's stack yard, is currently under redevelopment as a residential subdivision (Gamble Creek Estates, LLC). A site photograph and location map with photograph direction is provided on **Page B-18** in **Appendix B**. Lands to the south contain rural residences and pasturelands. This ranch is registered with FDEP (ID# 8624403) as having one 4,000-gallon leaded gasoline UST installed in 1981 and removed in 1988. A review of MCEMD files suggests the location of the former UST was 2,700 feet south of the existing Golf Course Road ROW. No reported discharges or violations were found

associated with this site. Based on this information, the risk rating is "Low" for this alternative.

- **Site No. 12 (Southern Broadcast Corporation WWSB - 17020 SR 675)** - This site is an existing transmission tower located 800 feet northeast of the existing Rye Road ROW. A site photograph and location map with photograph direction is provided on **Page B-19** in **Appendix B**. This facility is registered with FDEP (ID# 9601127) as having one 800-gallon diesel AST installed in 1996, which was replaced with a 2,000-gallon AST in 2000. The currently in service AST is used to fuel an emergency backup generator. No violations were found associated with this site. Based on distance the risk rating is "Low" for this alternative.

- **Site FR-1 (Manatee County Braden River Fire Station No. 3 - 150 Rye Road)** - This site is an existing fire station adjacent and northwest of the existing Rye Road ROW. The facility generator is located 130 feet from the Rye Road ROW. A site photograph and location map with photograph direction is provided on **Page B-20** in **Appendix B**. The diesel-powered generator has an integral tank within the pedestal. The AST capacity is likely less than 500 gallons and not required to be registered with FDEP. Based on this information, the risk rating is "Low" for this alternative.

- **Site FR-2 (River Reach Associates - 1400 block of North Rye Road** is a recently decommissioned citrus grove. The Rye Road Alternative corridor bisects the property and former citrus grove from north to south. The site has no tanks registered with FDEP. However, unregulated tanks were likely present in the past. The grove was not accessible during the field review. Historical photography (between 1940 and 1973) suggests that a former staging area may have existed near the northern end of the property within 50 feet or possibly within the proposed ROW. A 1998 aerial photograph depicts a possible surface water or well pump house and AST at the southern end of the property. The structure is within 50 feet or possibly within the proposed ROW. Based on this information, the risk rating is "Medium" for this alternative.

- **Site FR-3 (ECO Corporation - 13620 Golf Course Road)** - This site is a former nursery located adjacent and north of the existing Golf Course Road ROW. During the field review, a fueling AST was observed approximately 60 feet to the north of the existing Golf Course Road ROW. A site photograph and location map with photograph direction is provided on **Page B-21** in **Appendix B**. The AST capacity is likely less than 500 gallons and not required to be registered with FDEP. Based on this information, the risk rating is "Low" for this alternative.

Section 5.0
RESULTS AND RECOMMENDATIONS

5.1 RESULTS

5.1.1 FORT HAMER ALTERNATIVE FROM SR 64 TO US 301

Based on the findings discussed in the previous sections, 10 sites located along the Fort Hamer Alternative have been identified as having a potential for hazardous materials or petroleum-based impacts, or pesticides/herbicides. Four of these sites are identified as having a "Medium" to "High" risk rating for containing environmental contamination along this alternative. However, only one site (Site No. 5) has been identified within or adjacent to the construction limits of the Fort Hamer Alternative. This site is identified as having a "Medium" risk rating for environmental contamination.

5.1.2 RYE ROAD ALTERNATIVE FROM SR 64 TO US 301

A total of 15 sites have been identified along the Rye Road Alternative, of which 14 sites have the potential for hazardous materials and/or petroleum contamination as defined by regulatory agencies. With the exception of one site ranked "Medium" (Site FR-2) and one unranked site (Site 1), all other sites were ranked "Low."

5.2 RECOMMENDATIONS

Based on the findings discussed in the previous sections, two sites (Site No. 5 for the Fort Hamer Alternative and Site FR-2 for the Rye Road Alternative) have been identified as having a "Medium" risk potential for pesticides/herbicides and/or petroleum-based impacts during construction of these respective alternatives. In accordance with FDOT guidelines, it is recommended that limited sampling and testing be conducted at "Medium" risk sites in select areas to evaluate the absence or presence of environmental contamination in the recommended alternative. Subsurface soils from the ground surface to the water table should be screened with an organic vapor analyzer (OVA) equipped with a flame ionization detector (FID) using the standard FDEP headspace method. Should these sample exhibit the likelihood of impacts, soil and groundwater samples should also be collected from these locations for laboratory analysis.

Based on site conditions, samples may be analyzed for one or more of the following: Volatile Organic Compounds using EPA Method 8021, Ethylene Dibromide (EDB) by EPA Method 504, Total Petroleum Hydrocarbons by the FL-PRO method, Polyneuclear Aromatic Hydrocarbons by EPA Method 8270, Chlorinated Pesticides by EPA Method 8081, Pesticides by EPA Method 8141, Herbicides by EPA Method 8151, and the metals arsenic, boron, copper, and zinc.

Existing wells were not observed during the field reconnaissance conducted for the Rye Road Alternative, but may be encountered at Site No. 5 and Site FR-2. Any wells encountered will require abandonment by a licensed well driller, following Abandoned Well Plugging procedures in provided Chapter 40D-3.531 of the Florida Administrative Code (F.A.C.).

Lumber guardrail posts and spanners may be encountered as a result of construction of either build alternative. Lumber guardrail posts are likely treated with Chromated Copper Arsenate (CCA) or cresol compounds. Following their removal, the treated lumber should be disposed of at a limited landfill permitted to receive this material.

There is a potential for contamination impacts to occur during construction of either build alternative. Fuels, hazardous materials, and equipment used in construction should be properly stored, housed, and maintained. Emergency spill containment devices should be available and maintained by the appropriate contractors and on-call specialty cleanup contractor(s) should be available for spill cleanup, should the need arise.

The findings presented herein are based upon preliminary information only and are not intended to replace more detailed studies such as individual environmental site assessments and subsurface soil/groundwater investigations. Rather, this survey is intended as a preliminary guide for identifying potential contamination in the alternative corridors. Other technical studies may be required to determine the existence of site contamination prior to ROW acquisition, utility relocation, or stormwater pond construction.

It should be noted that potential contamination sites (containing hazardous substances, hazardous wastes, petroleum products, or other environmental contamination, on or in the immediate vicinity of the alternative corridors) may extend beyond those identified in this preliminary survey. This is due to limited historical information; regulatory agency records are not always complete; not all leaks, spills, and discharges are reported; illegal dumping practices; and the lack of compliance with FDEP stationary tank registration and hazardous waster generator programs.

This study does not include wetlands, threatened/endangered species, or air quality surveys. This study also does not include the identification of asbestos-containing materials or lead-based paint within or on existing building or bridge structures, which may be acquired or demolished for this project. It is recommended these surveys be performed prior to acquisition of any structures.

Finally, the identification of a site in this report does not necessarily indicate that the site contained environmental contamination, but only that there is potential for environmental contamination to occur. Therefore, the purpose of this assessment is to reduce, but not eliminate, the unknown and uncertainty regarding the absence or presence of hazardous substances or environmental contamination in connection with the project.

Section 6.0
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APPENDIX A

Historical Aerial Photo Review

Source: Florida Department of Transportation

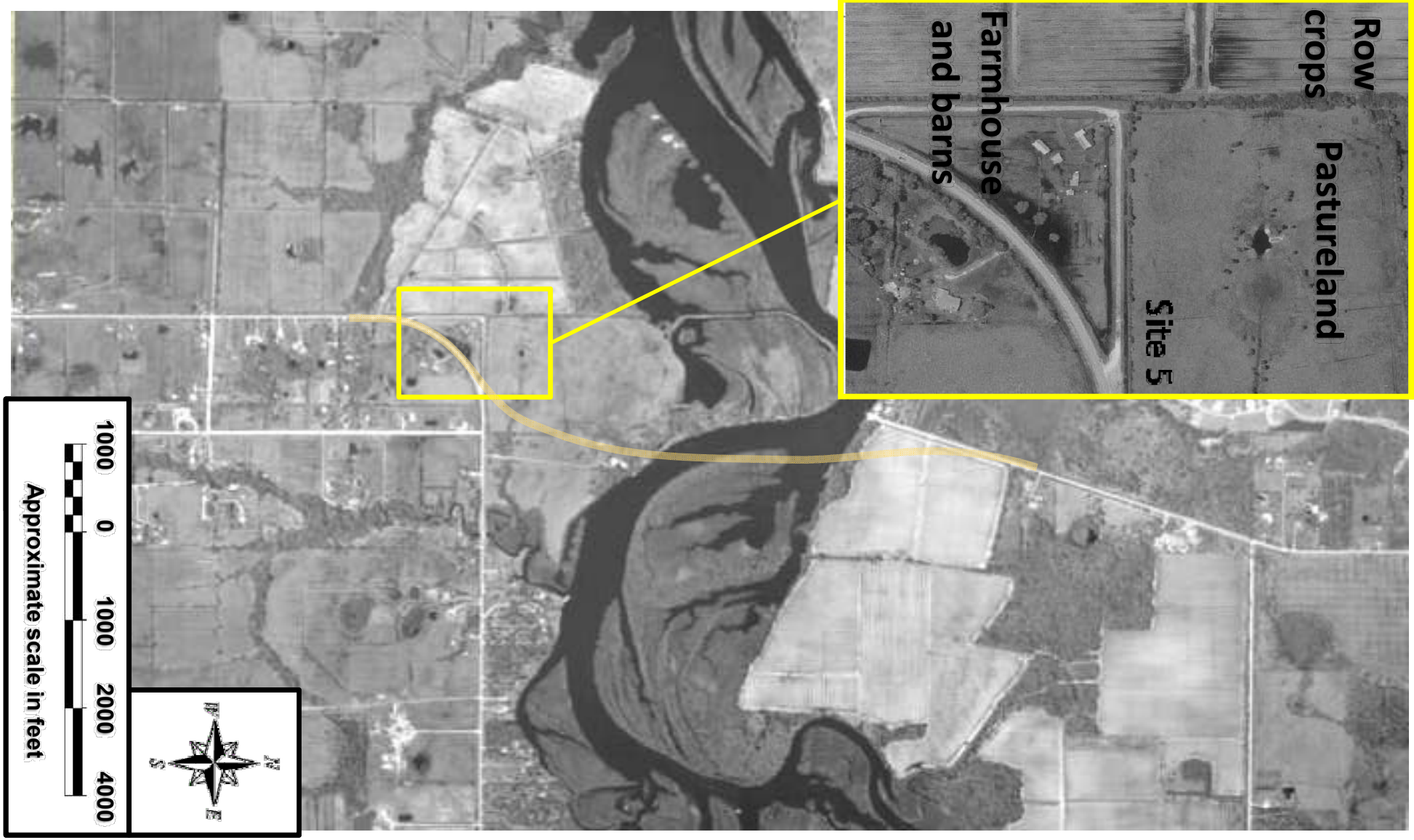
URS
7650 West Courtney Campbell Causeway
Tampa, Florida 33607-1462
Ph (813) 286-1711

2006 Aerial Photograph
Contamination Screening Evaluation
Fort Hamer Bridge

Source: Florida Department of Transportation

URS
7650 West Courtney Campbell Causeway
Tampa, Florida 33607-1462
Ph (813) 286-1711

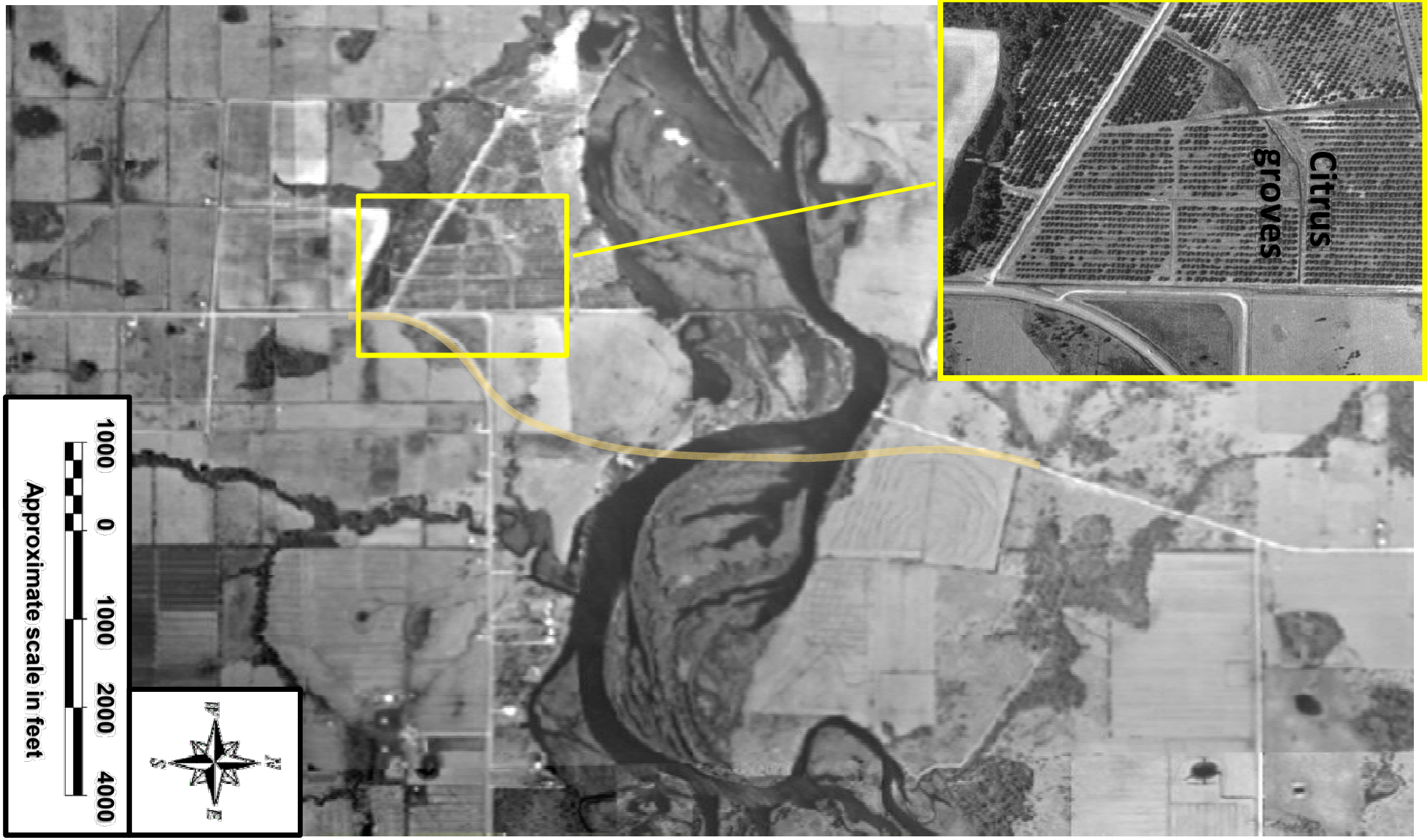
2004 Aerial Photograph
Contamination Screening Evaluation
Fort Hamer Bridge



Source: Florida Department of Transportation

URS
7650 West Courtney Campbell Causeway
Tampa, Florida 33607-1462
Ph (813) 286-1711

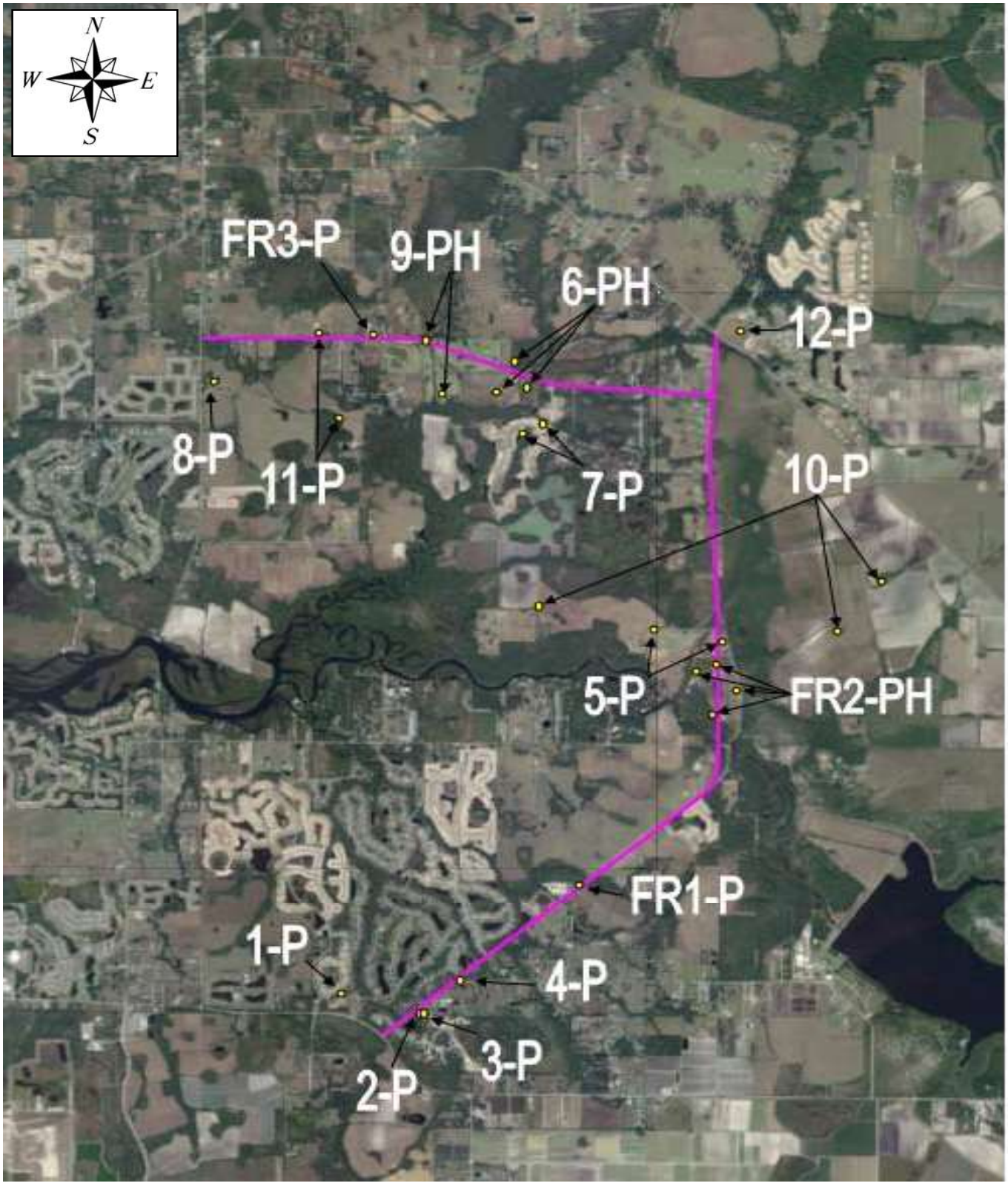
1998 Aerial Photograph
Contamination Screening Evaluation
Fort Hamer Bridge



Source: Florida Department of Transportation

URS
7650 West Courtney Campbell Causeway
Tampa, Florida 33607-1462
Ph (813) 286-1711

1969 Aerial Photograph
Contamination Screening Evaluation
Fort Hamer Bridge



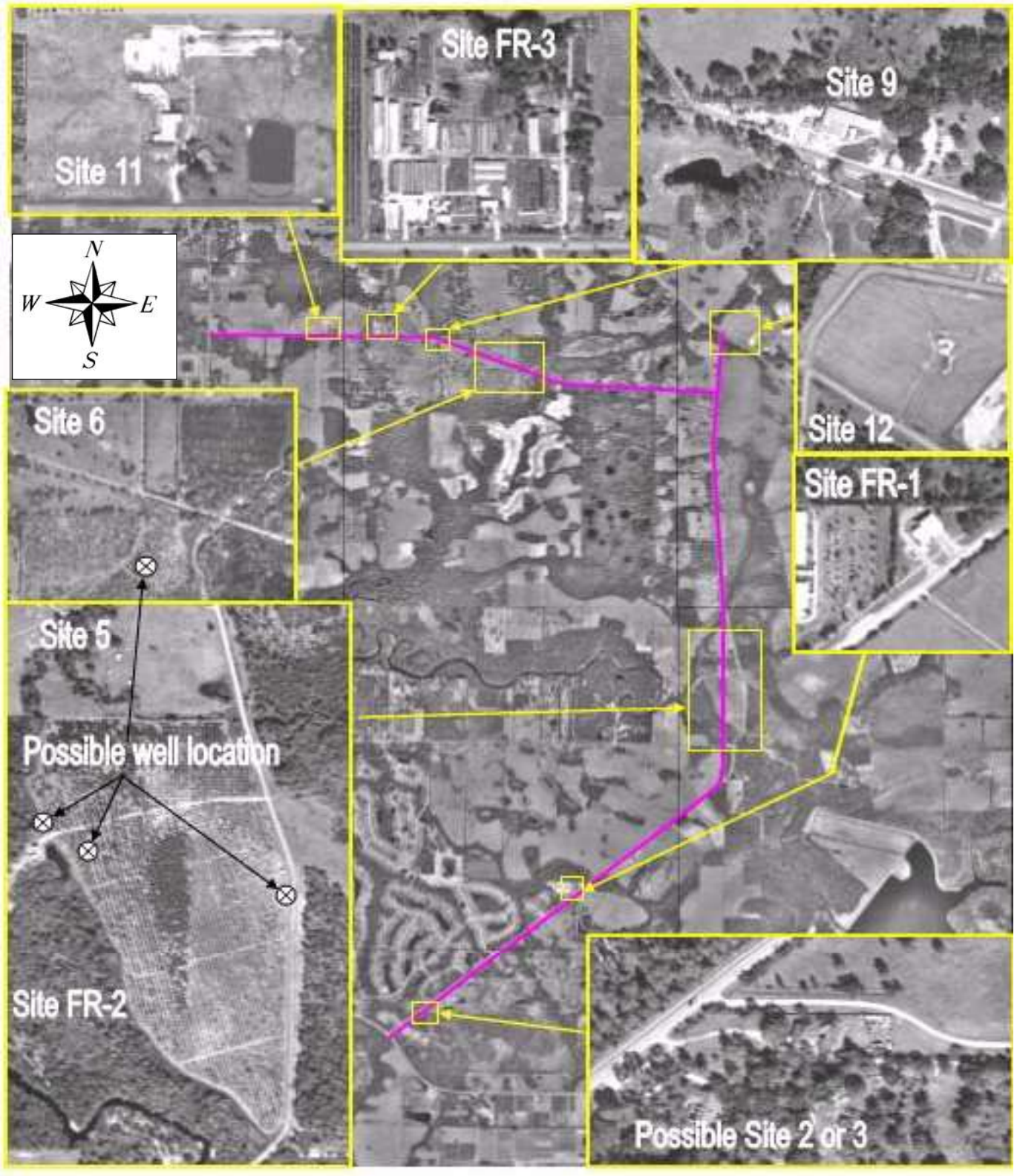
Source: FDEP LABINS

0.5 0 0.5 1.0 1.5 2.0

Approximate scale in miles

URS
7650 West Courtney Campbell Causeway
Tampa, Florida 33607-1462
Ph. (813) 286-1711 Fax (813) 636-2499

2004 Aerial Photograph
Contamination Screening Evaluation
Upper Manatee River



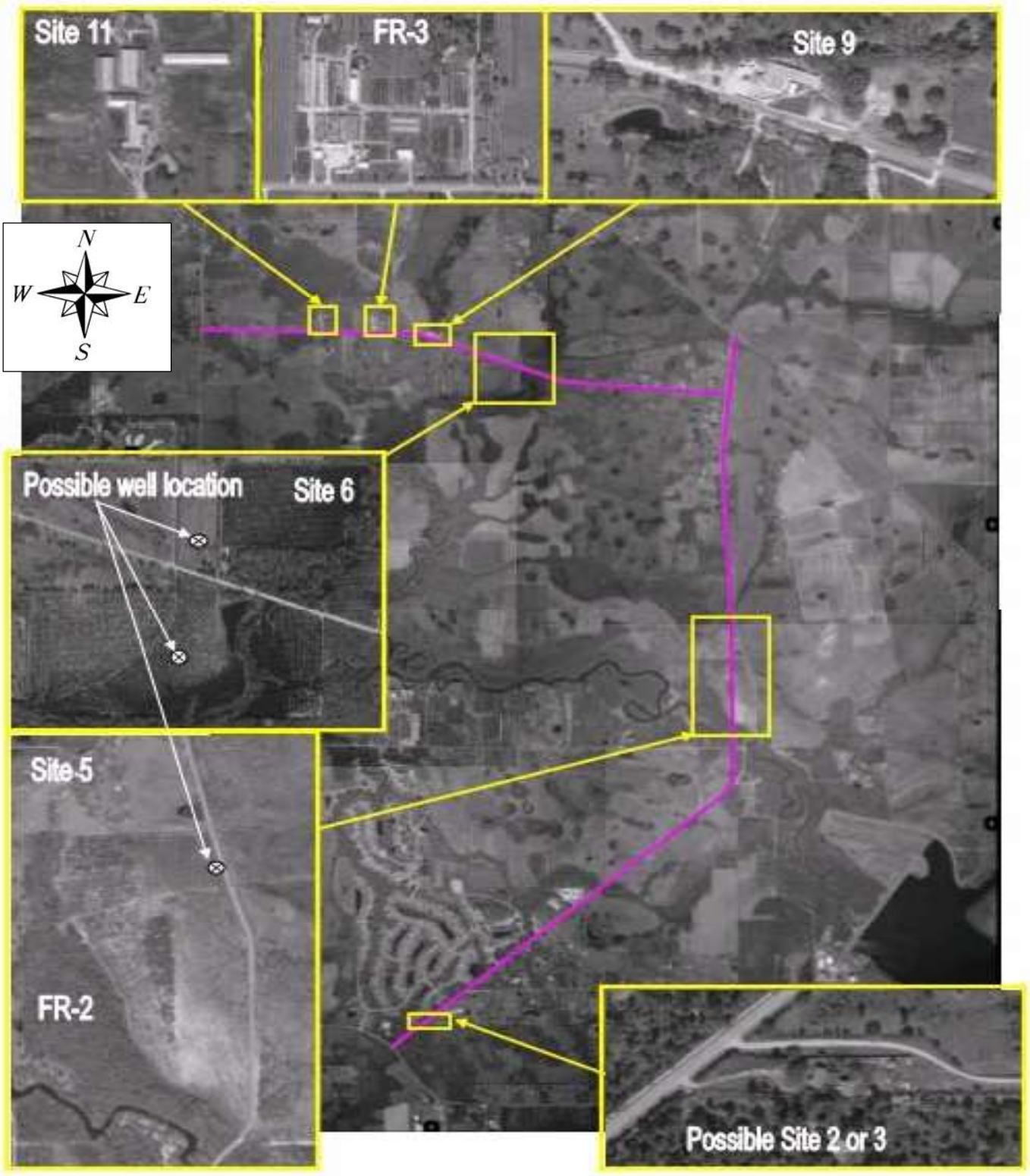
Source: Florida Department of Transportation

0.5 0 0.5 1.0 1.5 2.0

Approximate scale in miles

URS
7650 West Courtney Campbell Causeway
Tampa, Florida 33607-1462
Ph. (813) 286-1711 Fax (813) 636-2499

2003 Aerial Photograph
Contamination Screening Evaluation
Upper Manatee River



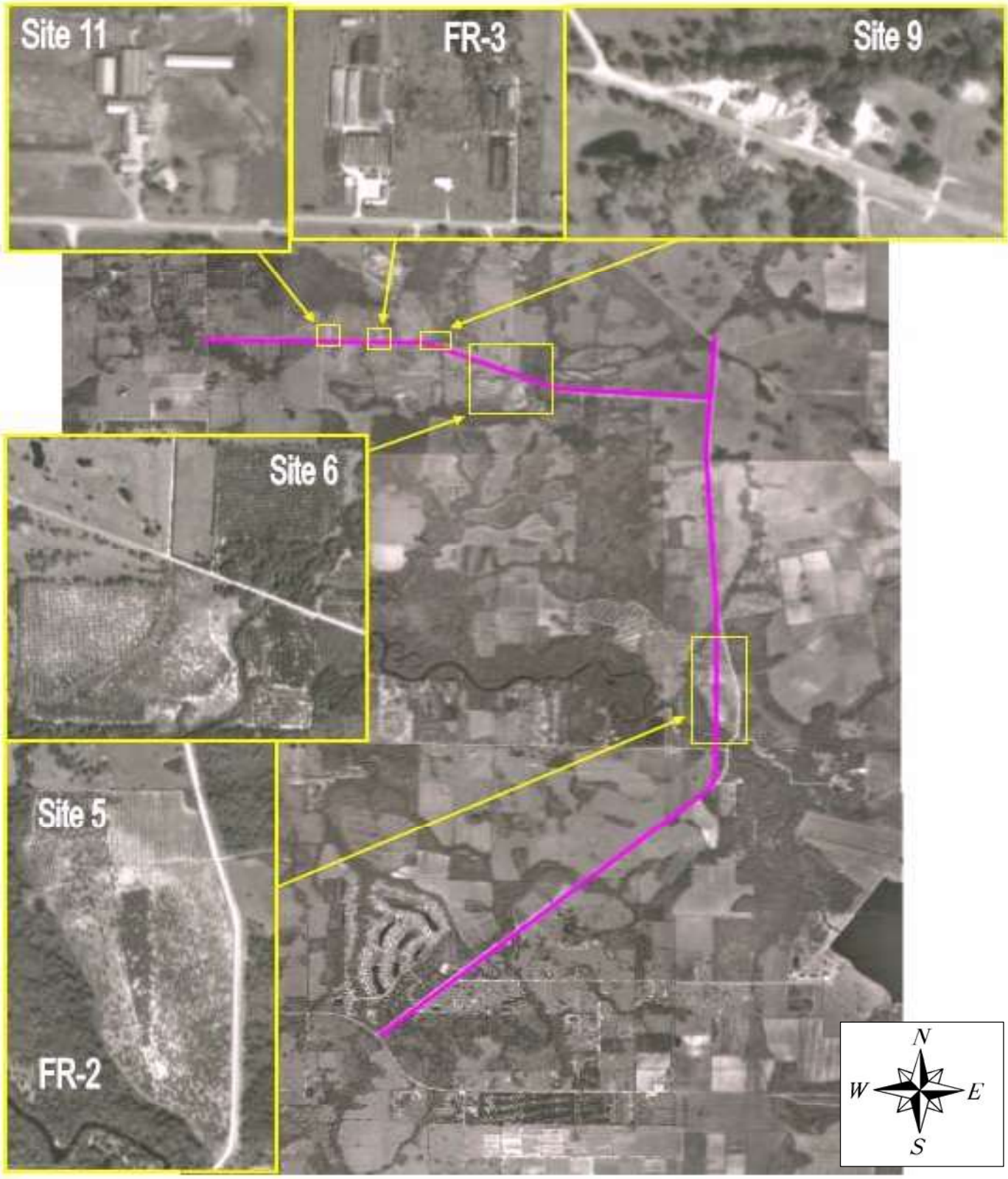
Source: Florida Department of Transportation

0.5 0 0.5 1.0 1.5 2.0

Approximate scale in miles

URS
7650 West Courtney Campbell Causeway
Tampa, Florida 33607-1462
Ph. (813) 286-1711 Fax (813) 636-2499

1998 Aerial Photograph
Contamination Screening Evaluation
Upper Manatee River



Source: Florida Department of Transportation

0.5 0 0.5 1.0 1.5 2.0

Approximate scale in miles

URS
7650 West Courtney Campbell Causeway
Tampa, Florida 33607-1462
Ph. (813) 286-1711 Fax (813) 636-2499

1991 Aerial Photograph
Contamination Screening Evaluation
Upper Manatee River

Source: Florida Department of Transportation

0.5 0 0.5 1.0 1.5 2.0

Approximate scale in miles

URS
7650 West Courtney Campbell Causeway
Tampa, Florida 33607-1462
Ph. (813) 286-1711 Fax (813) 636-2499

1980 Aerial Photograph
Contamination Screening Evaluation
Upper Manatee River

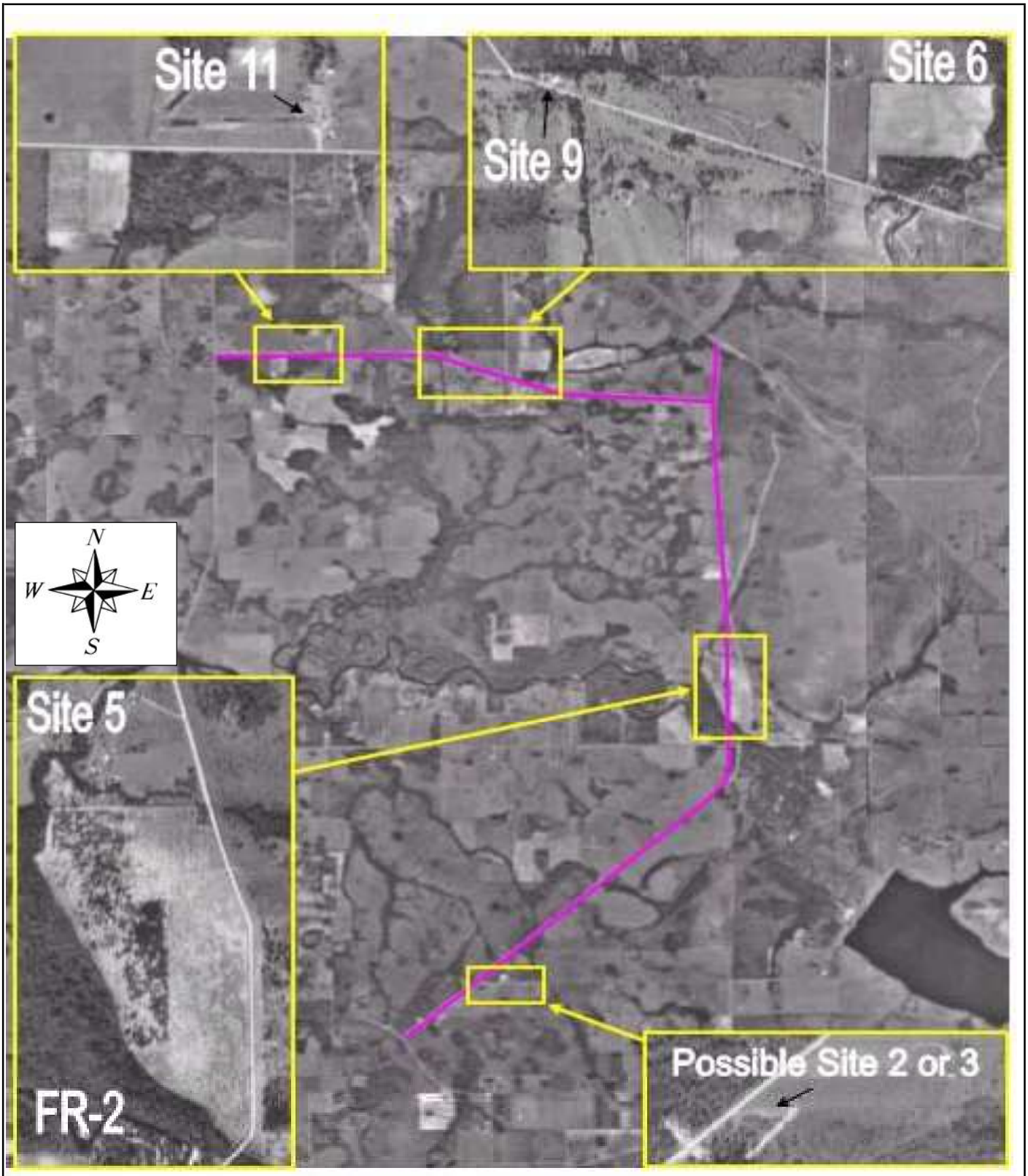
Source: Florida Department of Transportation

0.5 0 0.5 1.0 1.5 2.0

Approximate scale in miles

URS
7650 West Courtney Campbell Causeway
Tampa, Florida 33607-1462
Ph. (813) 286-1711 Fax (813) 636-2499

1973 Aerial Photograph
Contamination Screening Evaluation
Upper Manatee River



Source: PALMM Florida Aerial Photography

0.5 0 0.5 1.0 1.5 2.0

Approximate scale in miles

URS
7650 West Courtney Campbell Causeway
Tampa, Florida 33607-1462
Ph. (813) 286-1711 Fax (813) 636-2499

1970 Aerial Photograph
Contamination Screening Evaluation
Upper Manatee River

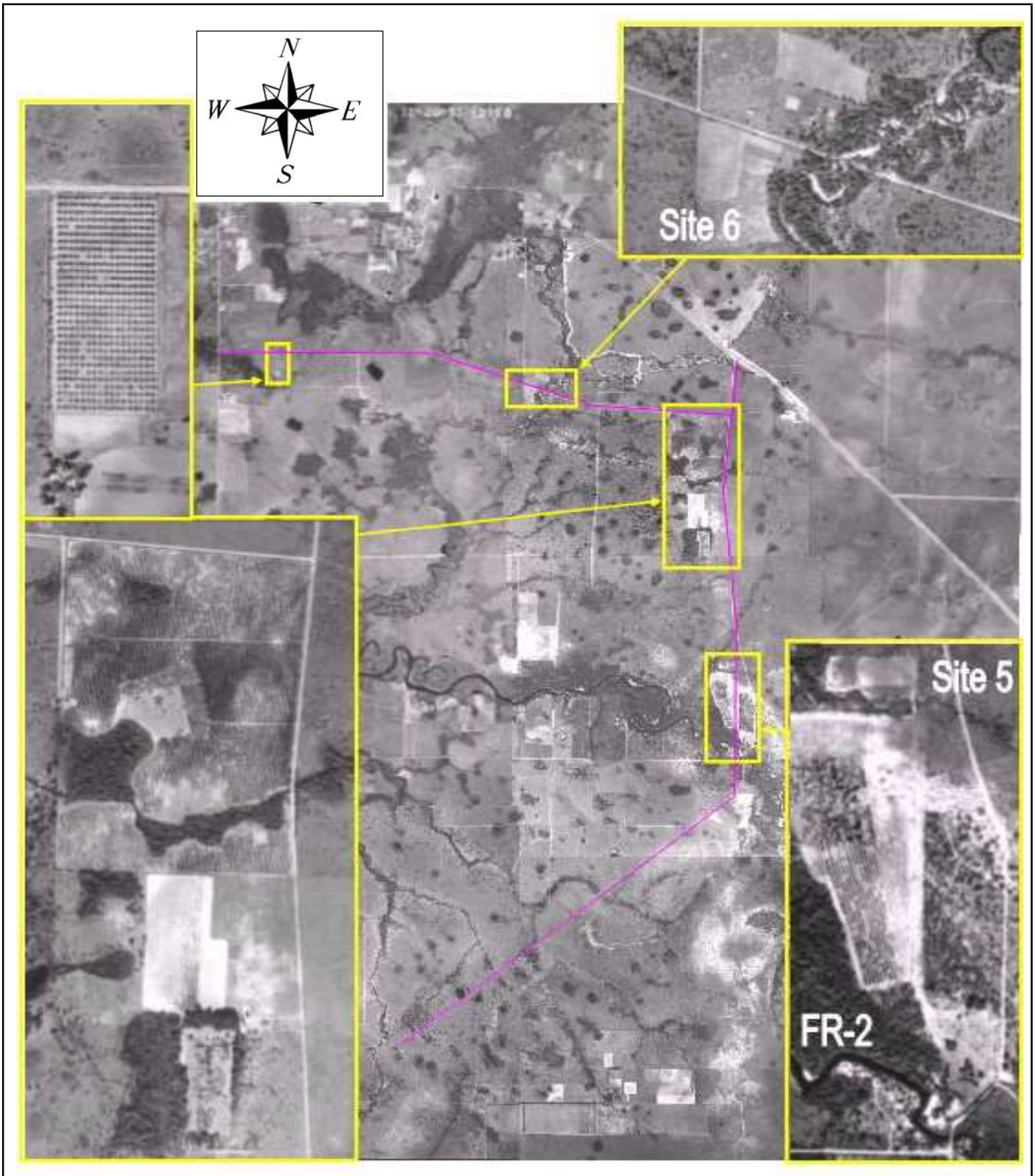
Source: PALMM Florida Aerial Photography

0.5 0 0.5 1.0 1.5 2.0

Approximate scale in miles

URS
7650 West Courtney Campbell Causeway
Tampa, Florida 33607-1462
Ph. (813) 286-1711 Fax (813) 636-2499

1957 Aerial Photograph
Contamination Screening Evaluation
Upper Manatee River



Source: PALMM Florida Aerial Photography

0.5 0 0.5 1.0 1.5 2.0

Approximate scale in miles

URS
7650 West Courtney Campbell Causeway
Tampa, Florida 33607-1462
Ph. (813) 286-1711 Fax (813) 636-2499

1951 Aerial Photograph
Contamination Screening Evaluation
Upper Manatee River

Source: PALMM Florida Aerial Photography

0.5 0 0.5 1.0 1.5 2.0

Approximate scale in miles

URS
7650 West Courtney Campbell Causeway
Tampa, Florida 33607-1462
Ph. (813) 286-1711 Fax (813) 636-2499

1940 Aerial Photograph
Contamination Screening Evaluation
Upper Manatee River

URS

HISTORICAL AERIAL PHOTO REVIEW

Years Reviewed	Scale	Quality
1940	1:660	Fair
1951	1:660	Fair
1957	1:660	Good
1975	1:400	Good
1980	1:200	Good
1984	1:200	Good
1991	1:200	Good
1994	1:200	Good
1998	1:200	Good

Location: Fort Hamer Alternative, Manatee County, Florida

Site of Concern: Sites 1 through 10

Summary of Site Observations, Changes, and Concerns:

- 1998 – Aerial photo shows Site No. 1 as being under construction. Site Nos. 5 and 10 is as yet undeveloped. The remaining areas of concern are as they appeared at the time of the field survey.
- 1994 – Aerial photo shows Site Nos. 1 and 5 as undeveloped pastureland. Site No. 6 has no house in the front of the yard. All other sites of concern are relatively unchanged from the previous aerial.
- 1991 – Aerial photo shows Site No. 7 as being clearer and less cluttered than the previous aerial. Site Nos. 9 and 10 appear to be old citrus groves at this time. All other sites of concern are relatively unchanged from the previous aerial.
- 1984 – Aerial photo shows Site No. 3 as being less developed. All other sites of concern are relatively unchanged from the previous aerial.
- 1980 – Aerial photo shows all sites of concern are relatively unchanged from the previous aerial.
- 1975 – Aerial photo shows all sites of concern are relatively unchanged from the previous aerial.
- 1957 – Aerial photo shows Site Nos. 3 and 4 as being agricultural and Site No. 8 as residential property. Only Site No. 7 appears less developed. All other sites of concern are relatively unchanged from the previous aerial.
- 1951 – Aerial photo shows Site No. 2 as agricultural and Site Nos. 6 and 8 as pastureland. All other sites of concern are relatively unchanged from the previous aerial.
- 1940 – Aerial photo shows Site No. 7 as pastureland and agricultural.

APPENDIX B

Site Photographs

Fort Hamer Alternative
Green Field Plantation

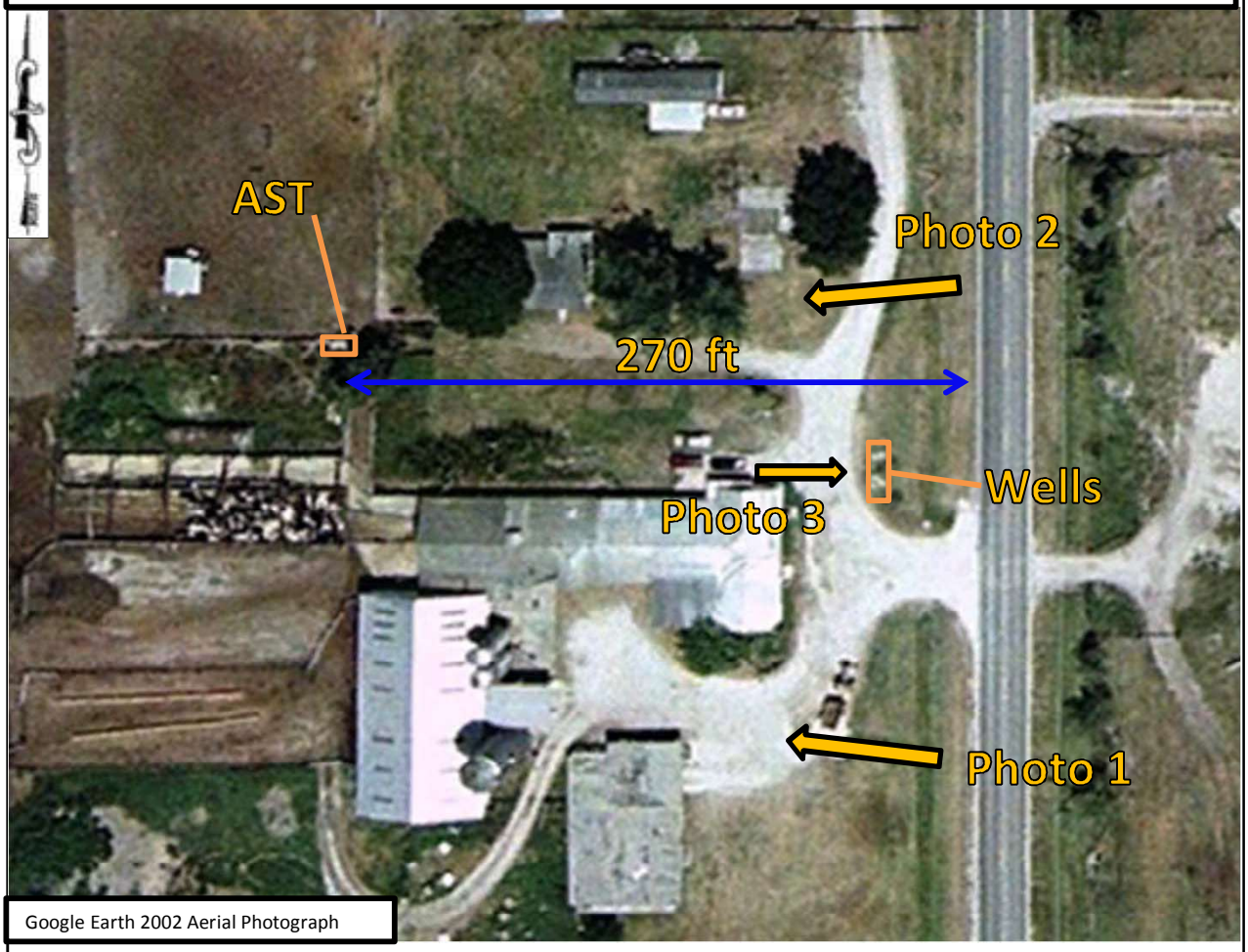
Site 1

Google Earth 2003 Aerial Photograph

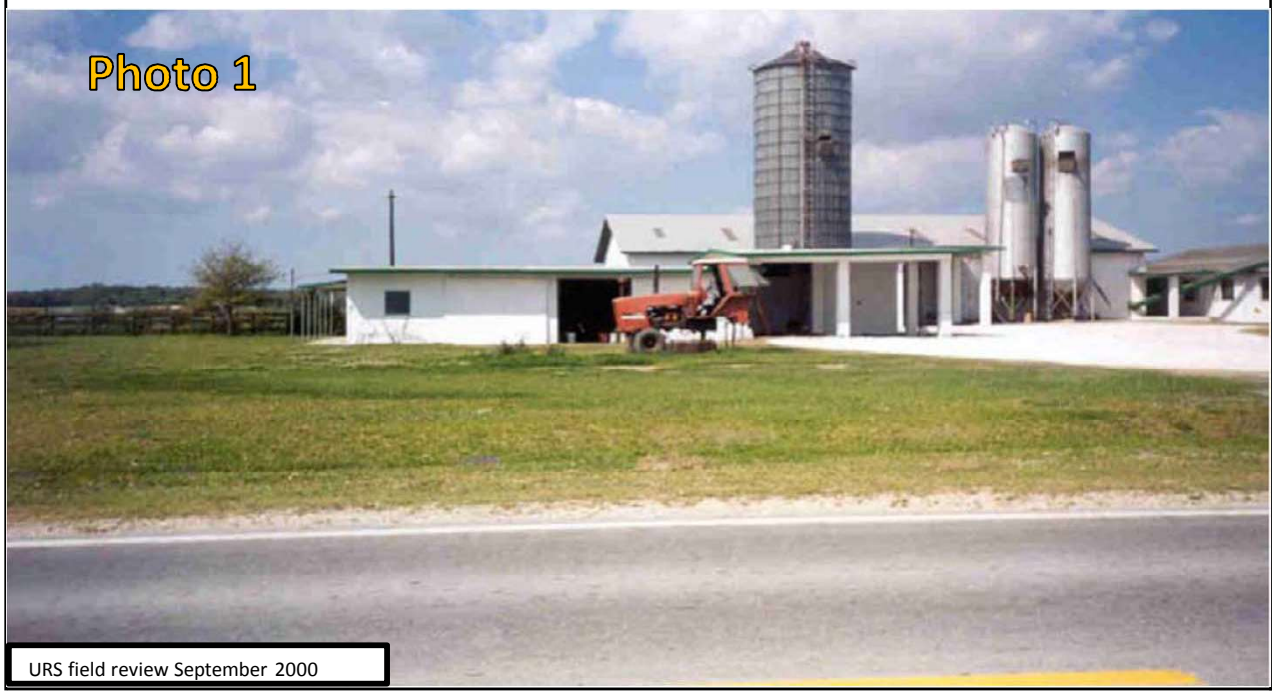
URS field review September 2000

Fort Hamer Alternative
Moore Property

Site 2



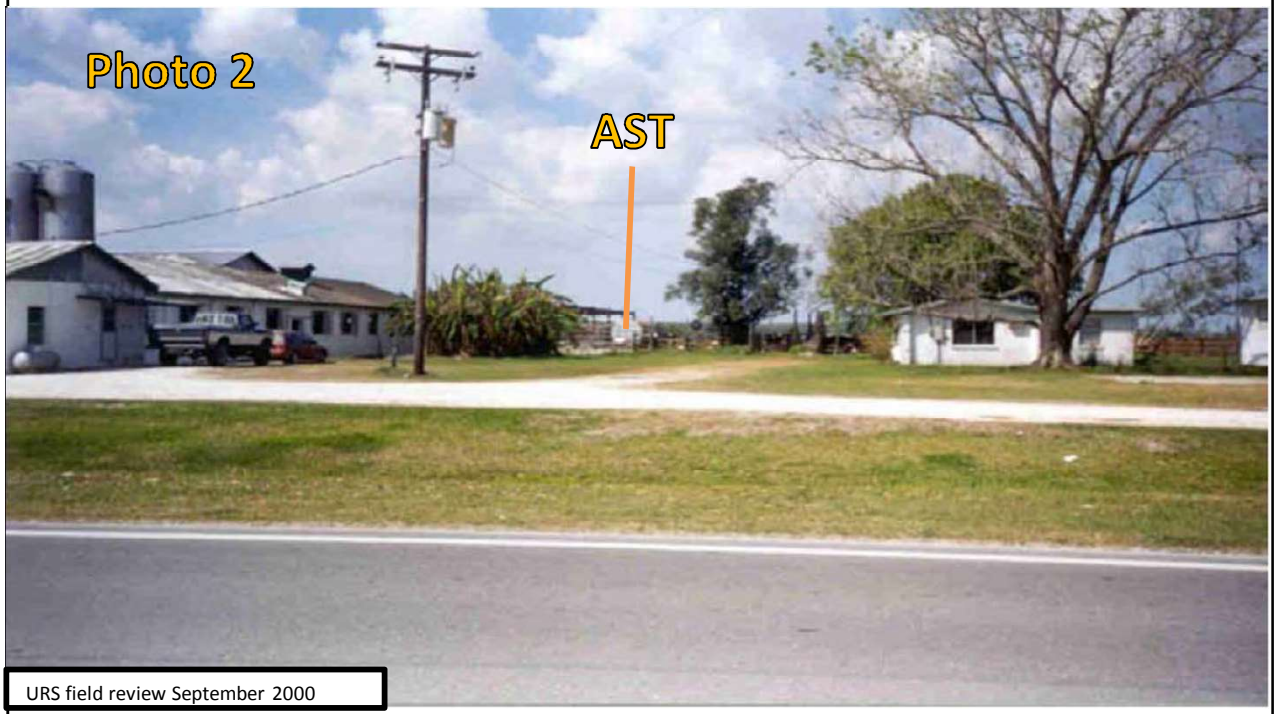
Google Earth 2002 Aerial Photograph



URS field review September 2000

Fort Hamer Alternative
Moore Property

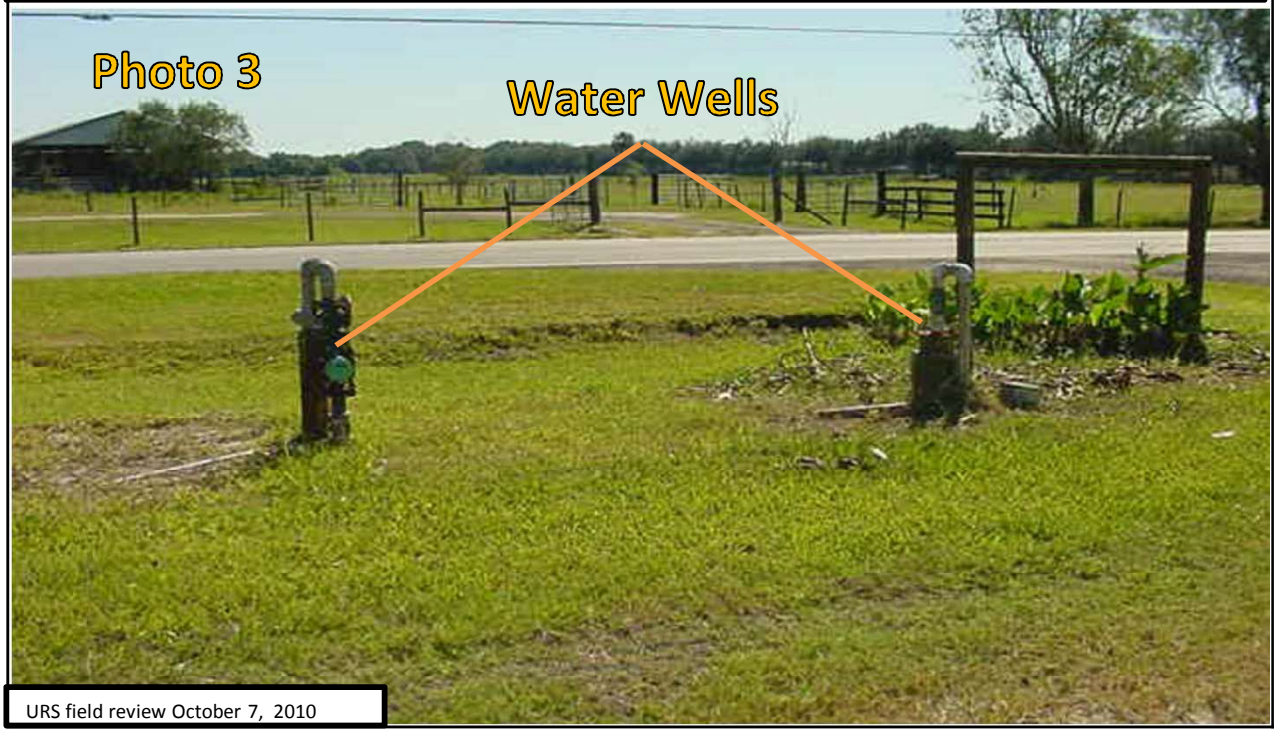
Site 2



URS field review September 2000

Fort Hamer Alternative
Moore Property

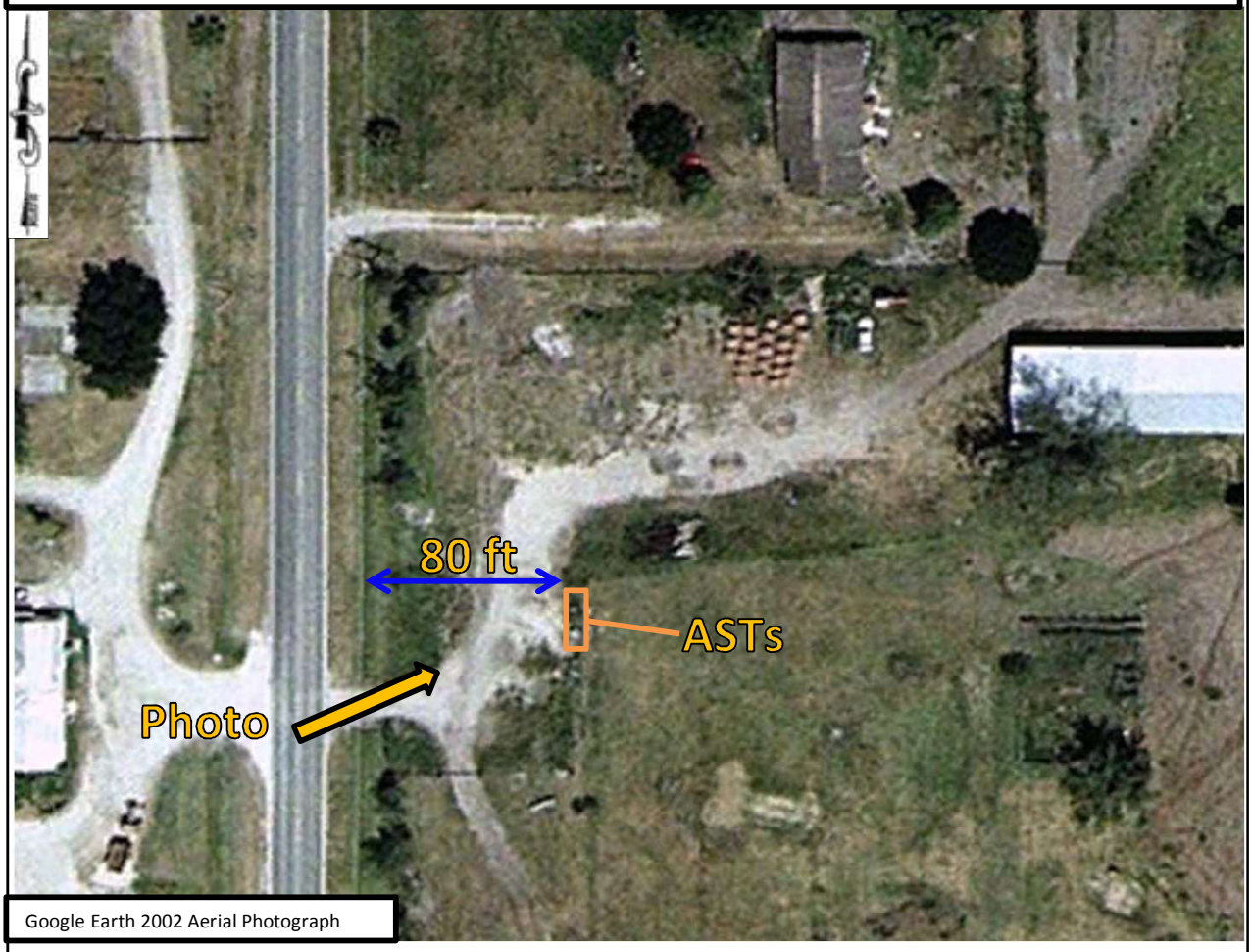
Site 2



URS field review October 7, 2010

Fort Hamer Alternative
Moore Property II

Site 3

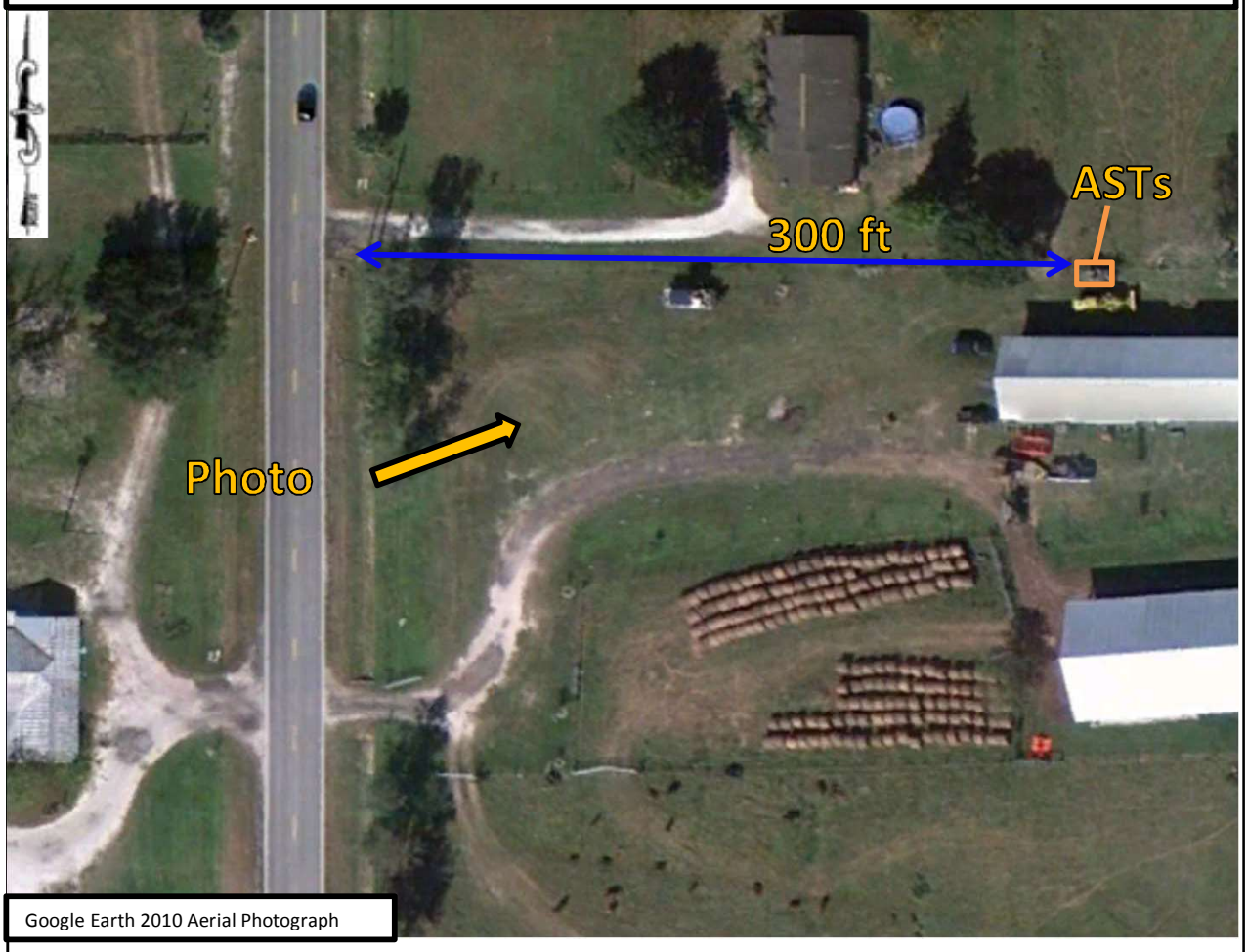


Google Earth 2002 Aerial Photograph

URS field review September 2000

Fort Hamer Alternative
Moore Property II

Site 3

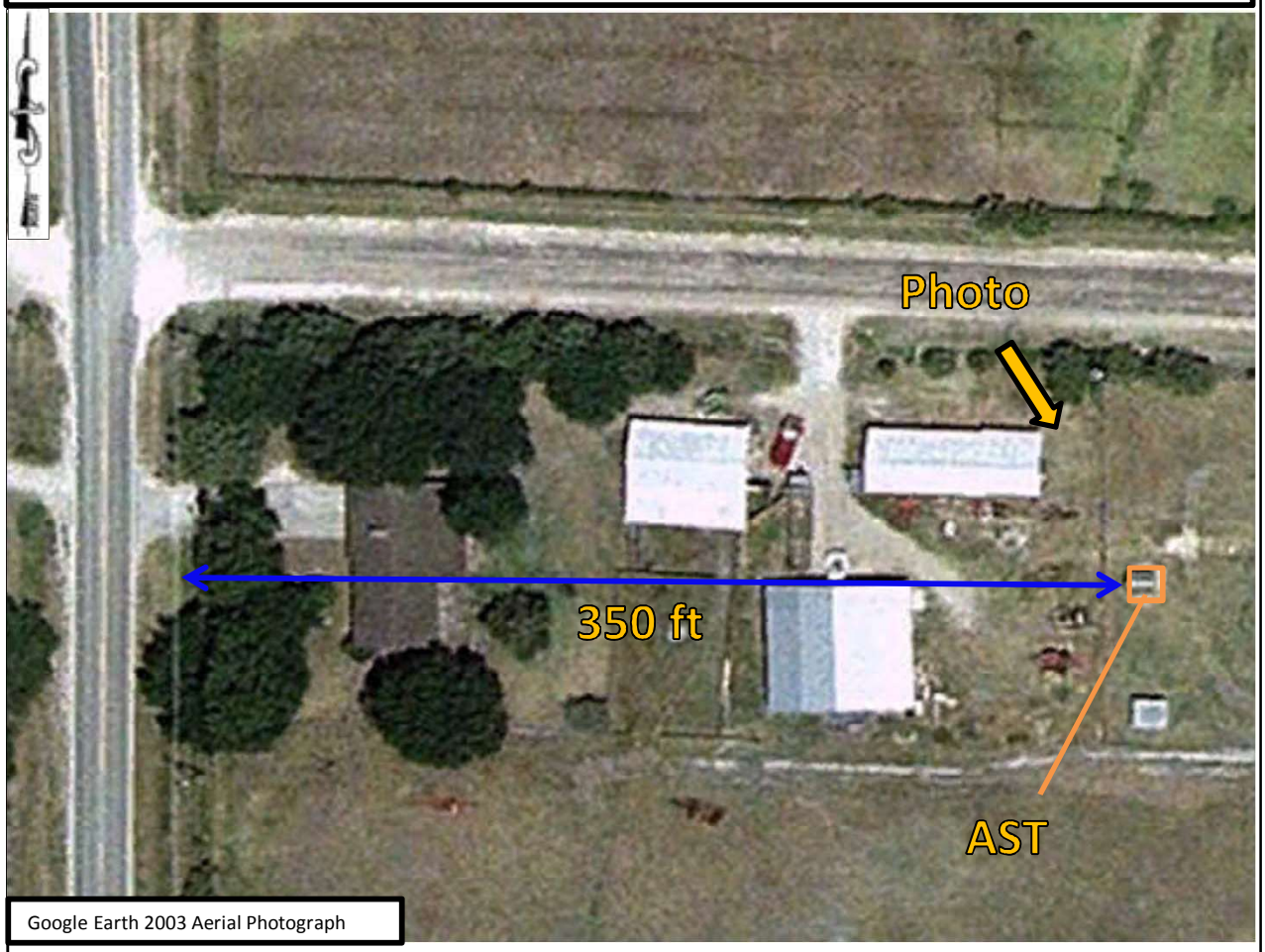


Google Earth 2010 Aerial Photograph

URS field review October 7, 2010

Fort Hamer Alternative
Dave Ballard Property

Site 4

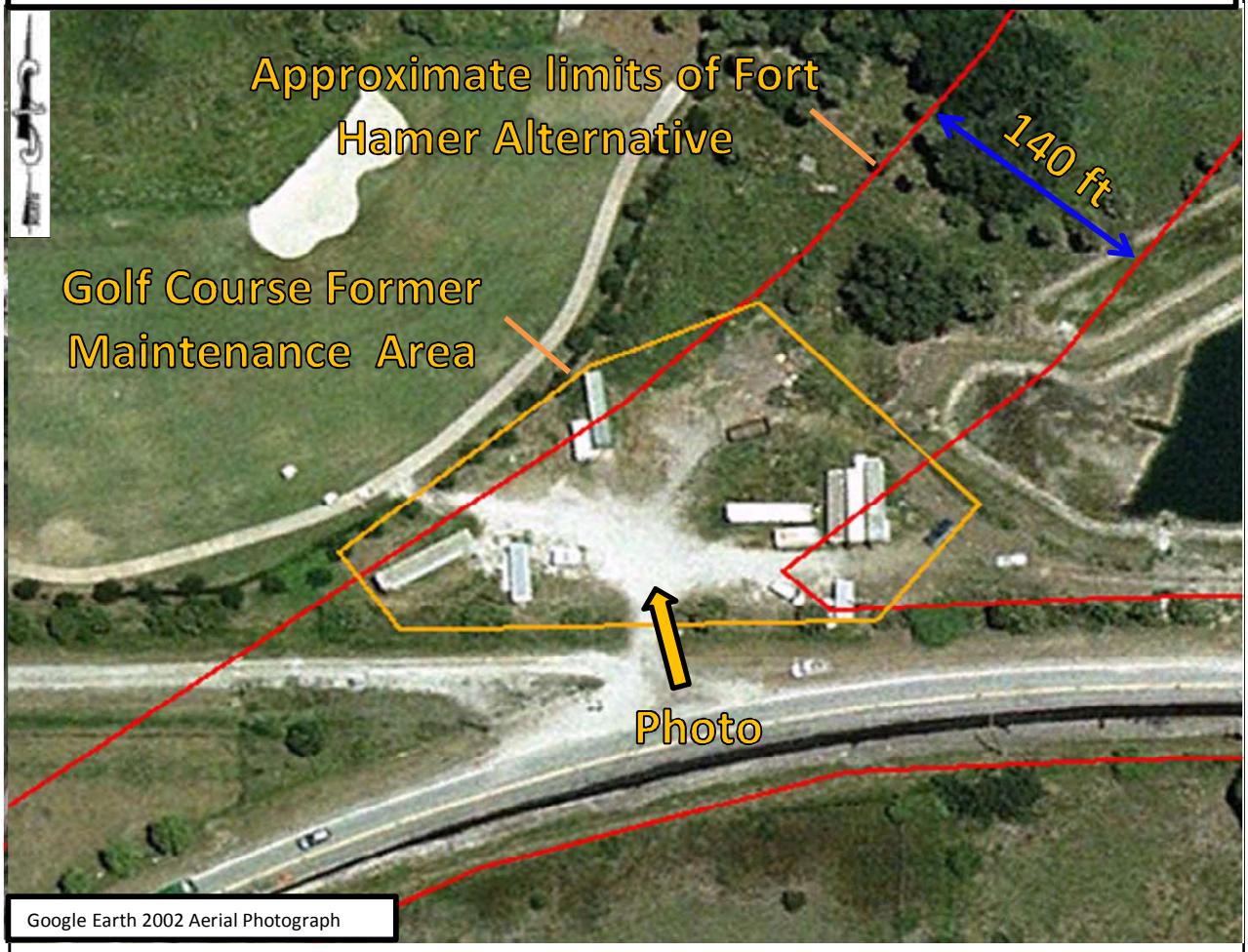


Google Earth 2003 Aerial Photograph

URS field review September 2000

Fort Hamer Alternative
Bay Colony Gateway, Inc. Property

Site 5

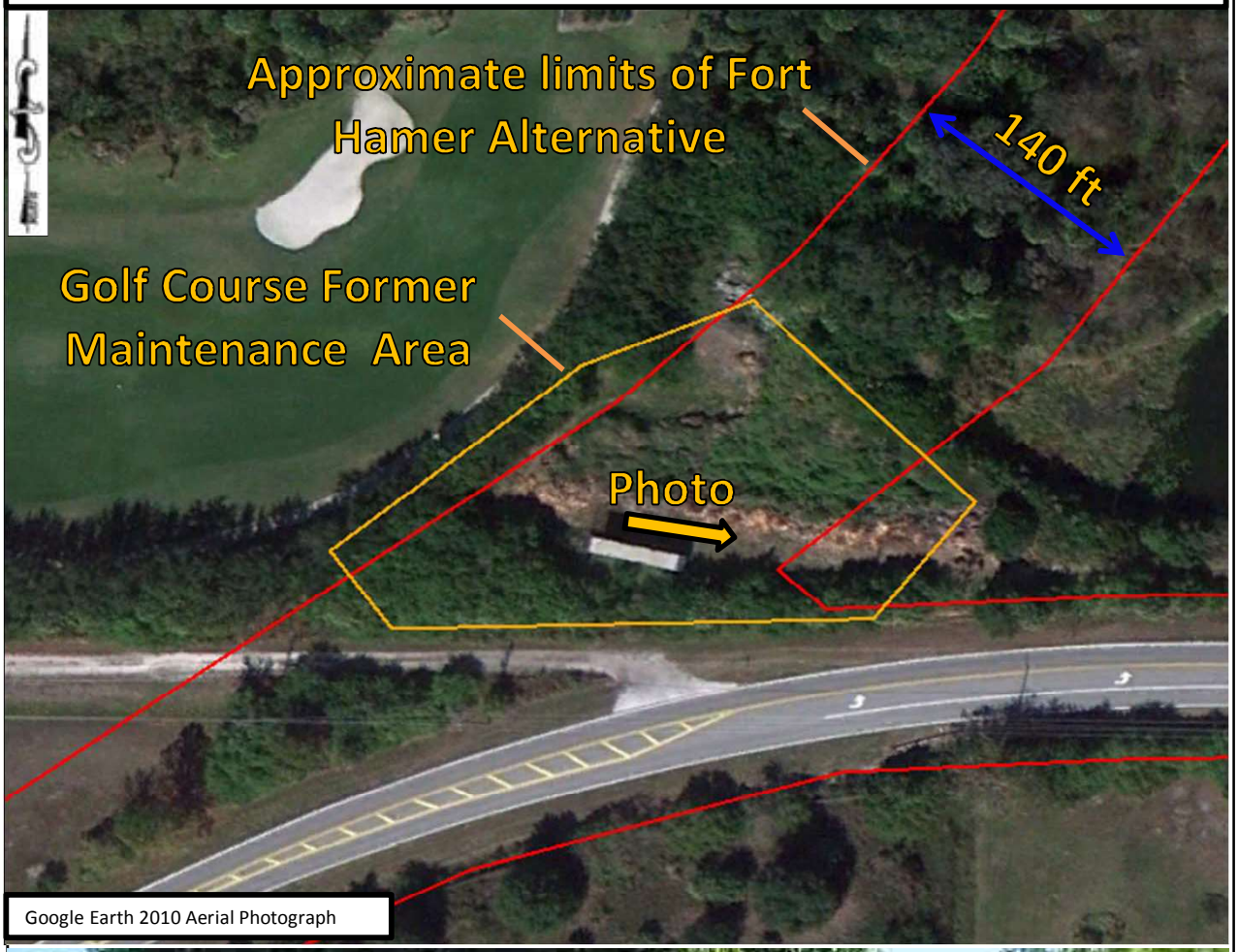


Google Earth 2002 Aerial Photograph

URS field review September 2000

Fort Hamer Alternative
Bay Colony Gateway, Inc. Property

Site 5

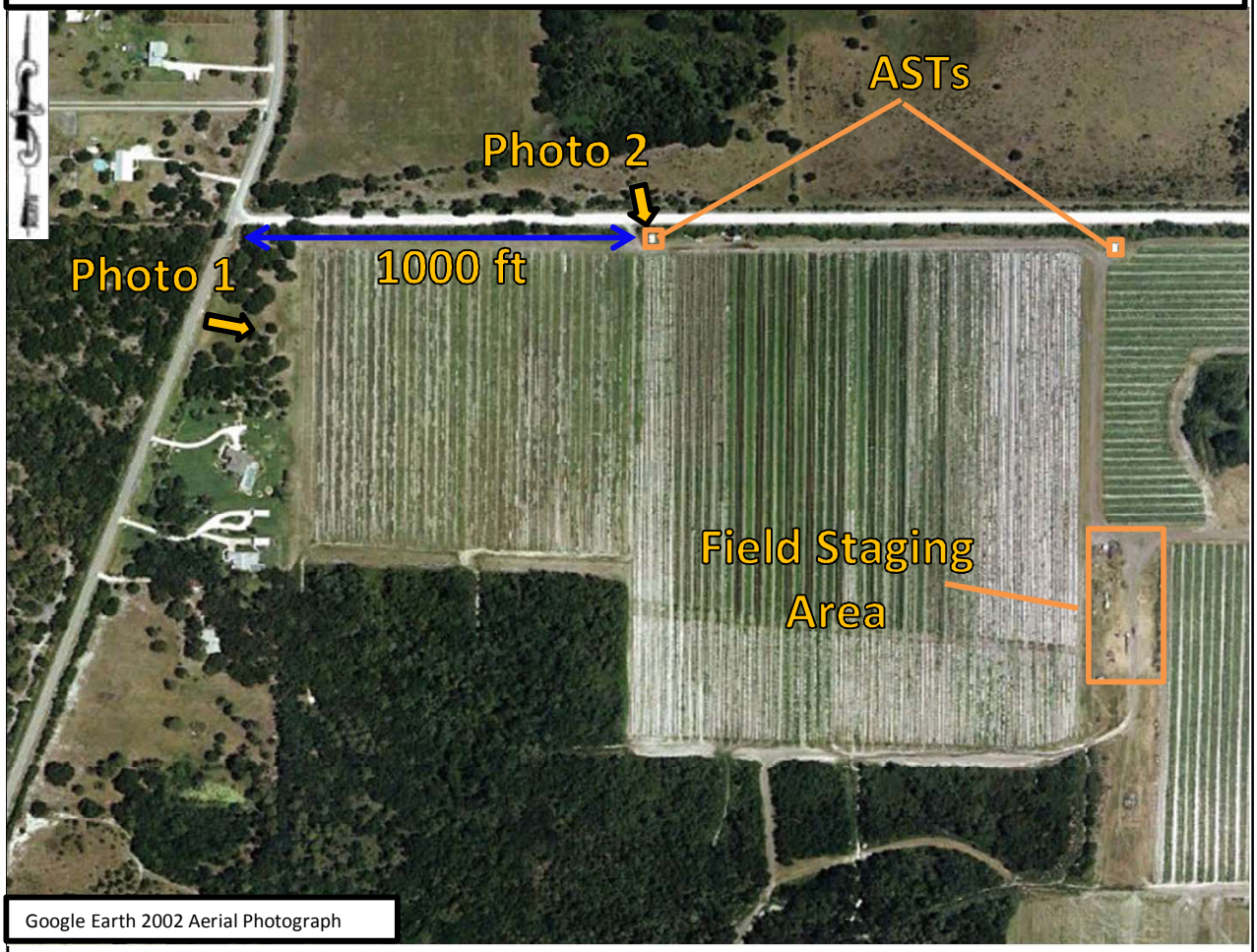


Google Earth 2010 Aerial Photograph

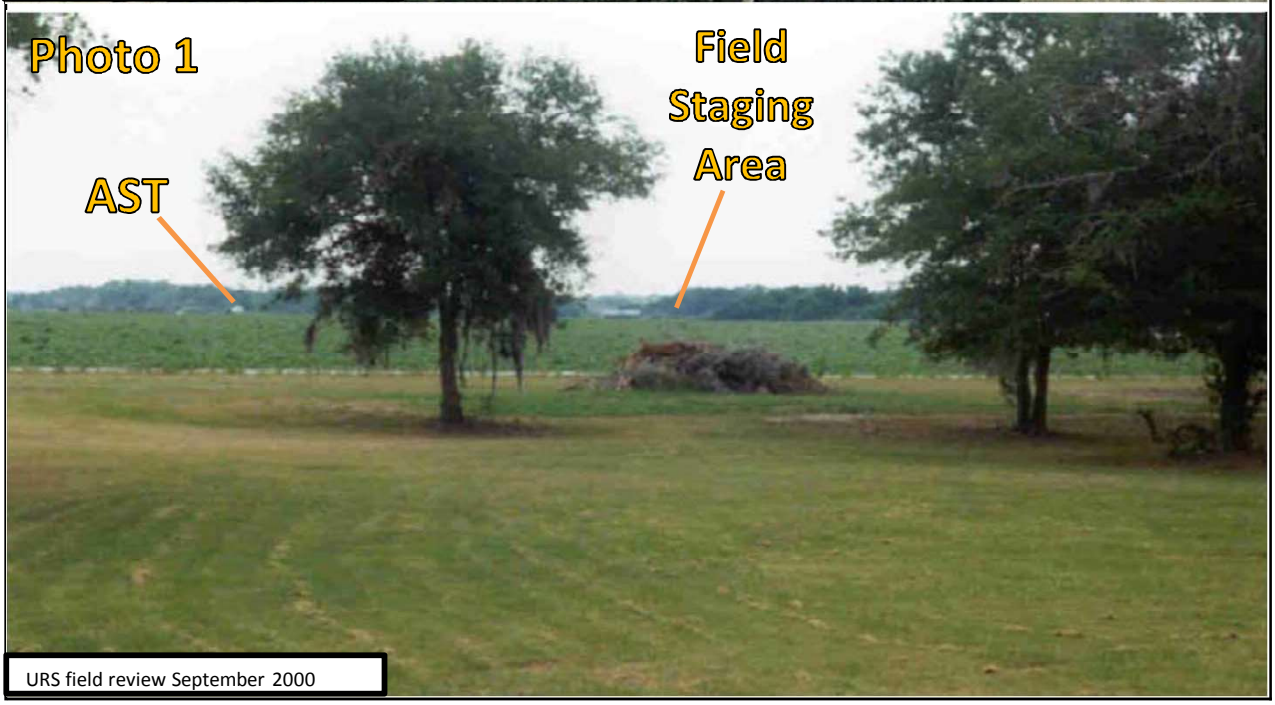
URS field review October 7, 2010

Fort Hamer Alternative
Mulholland Farms

Site 6



Google Earth 2002 Aerial Photograph

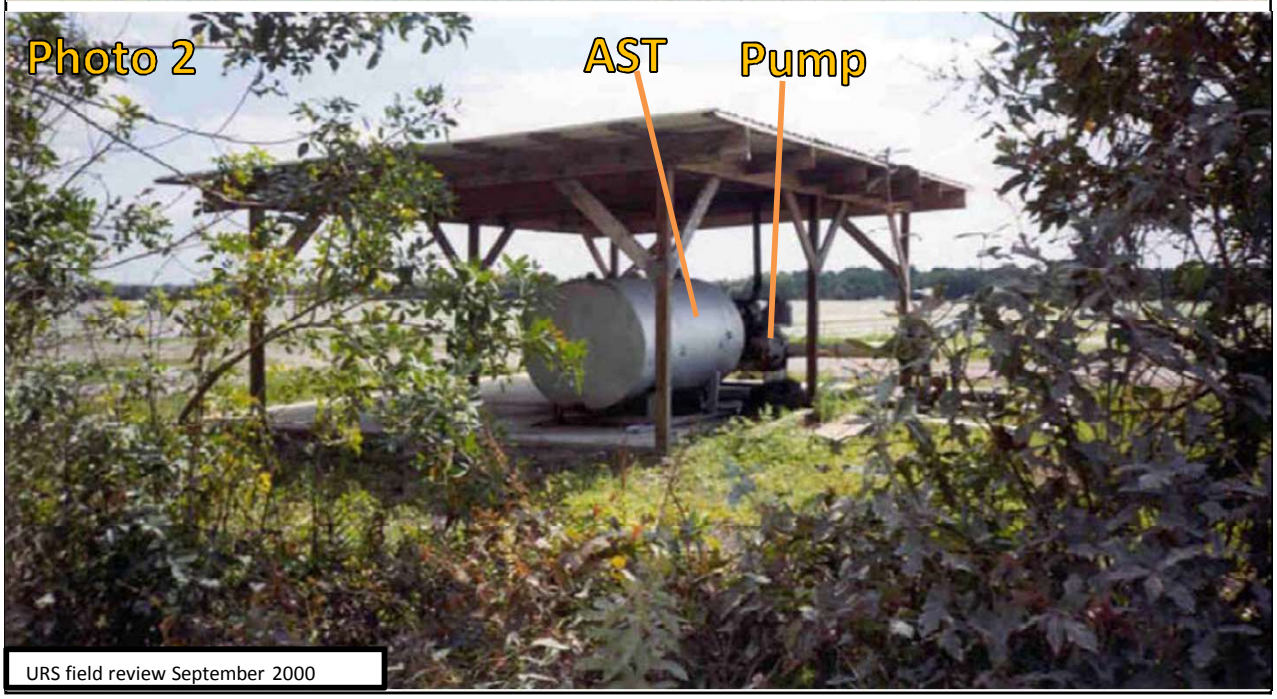


URS field review September 2000

Fort Hamer Alternative
Mulholland Farms

Site 6

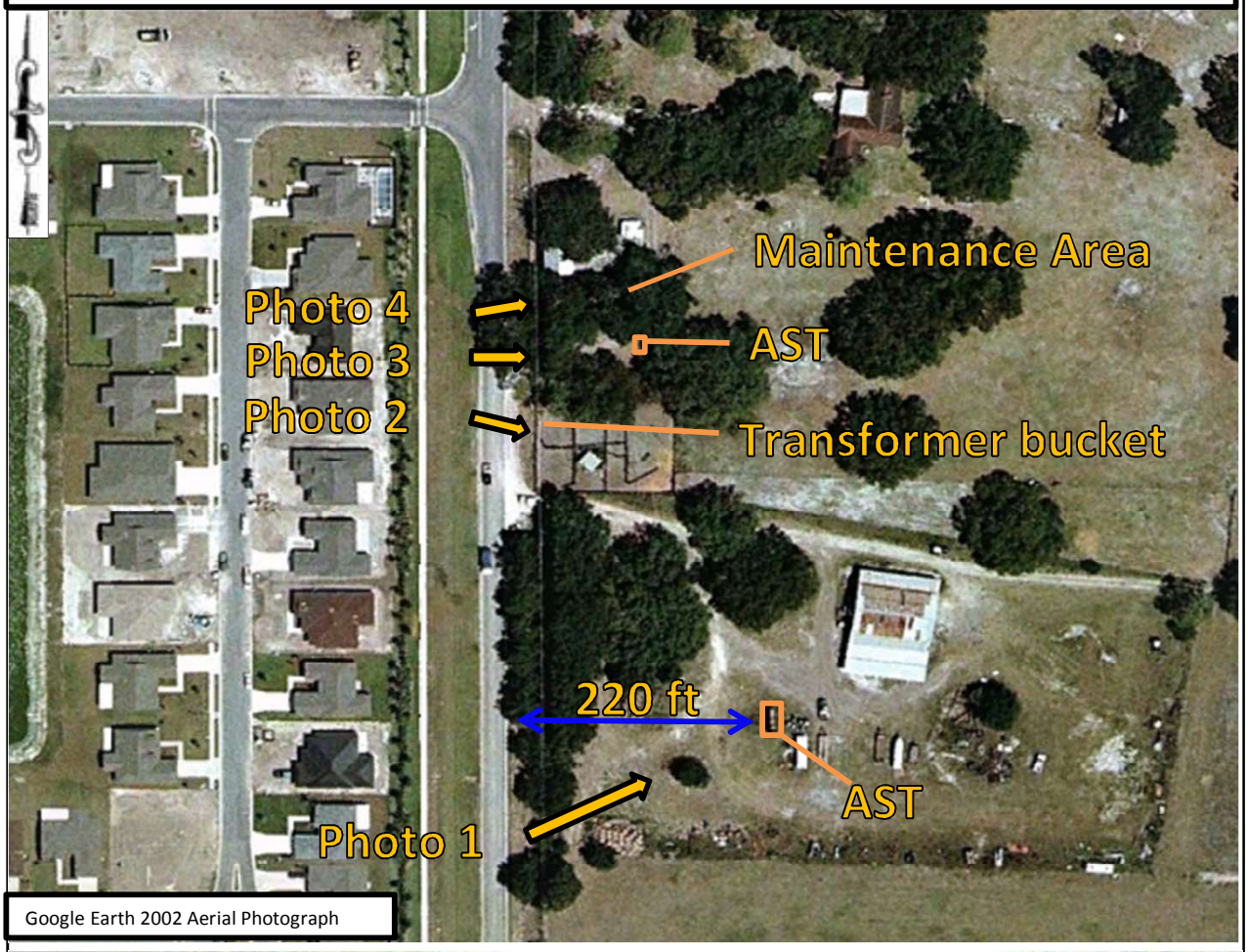
Google Earth 2010 Aerial Photograph



URS field review September 2000

Fort Hamer Alternative
Fort Hamer Farms (Rawl's Custom Cutting)

Site 7

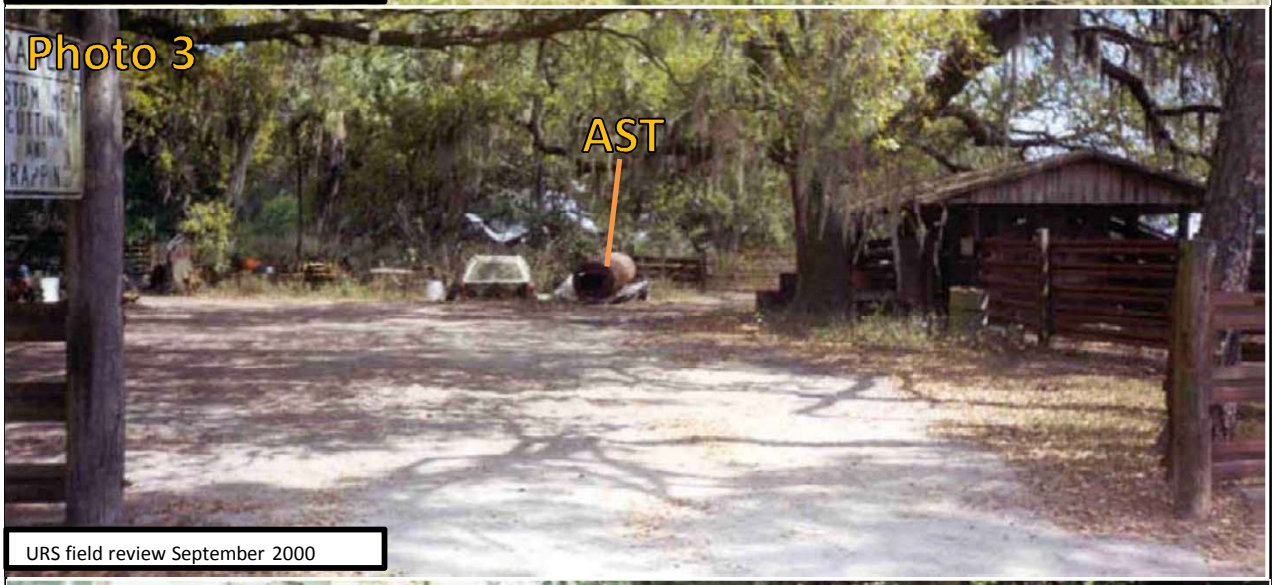


Google Earth 2002 Aerial Photograph

URS field review September 2000

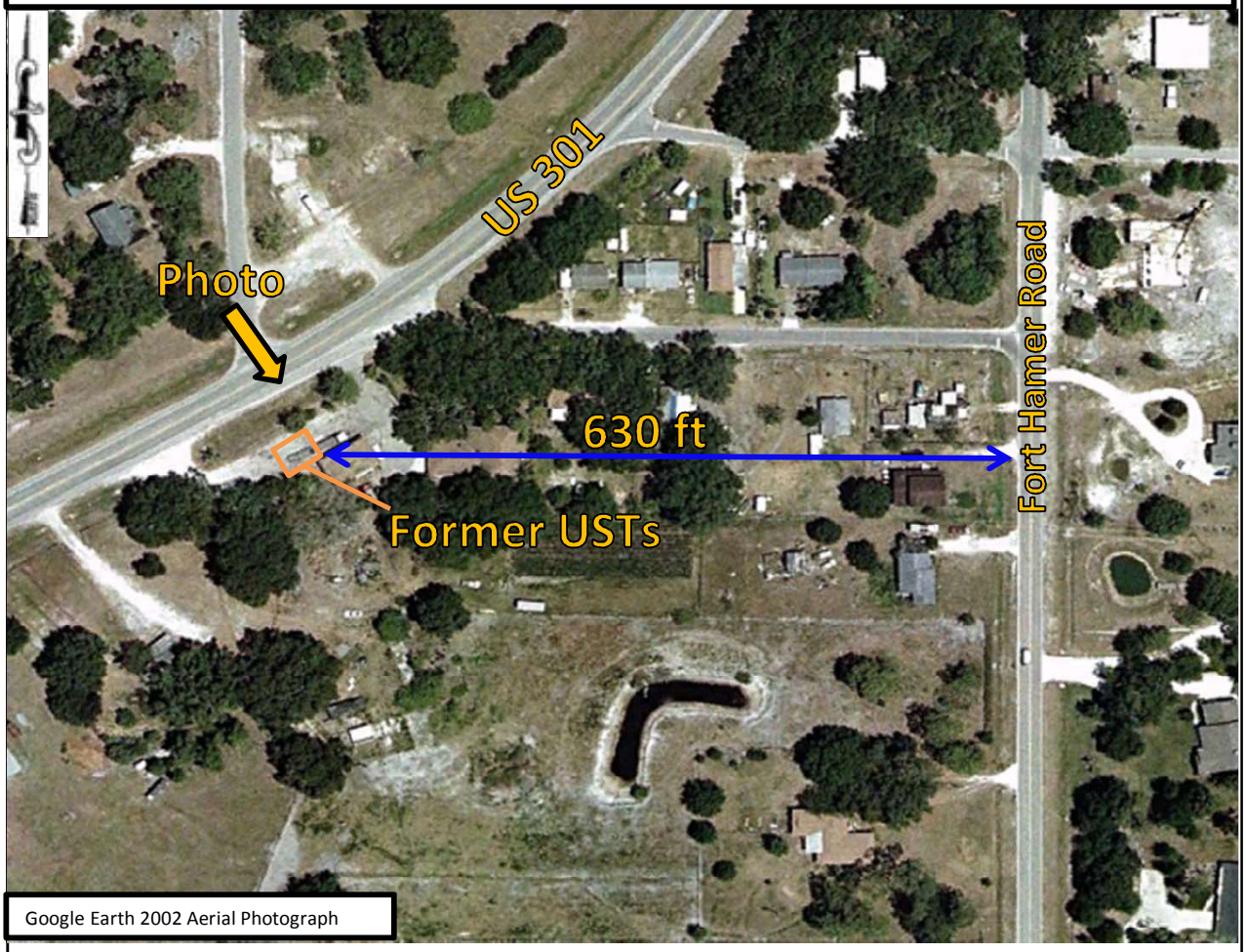
Fort Hamer Alternative
Fort Hamer Farms (Rawl's Custom Cutting)

Site 7



Fort Hamer Alternative
Herrera Property

Site 8

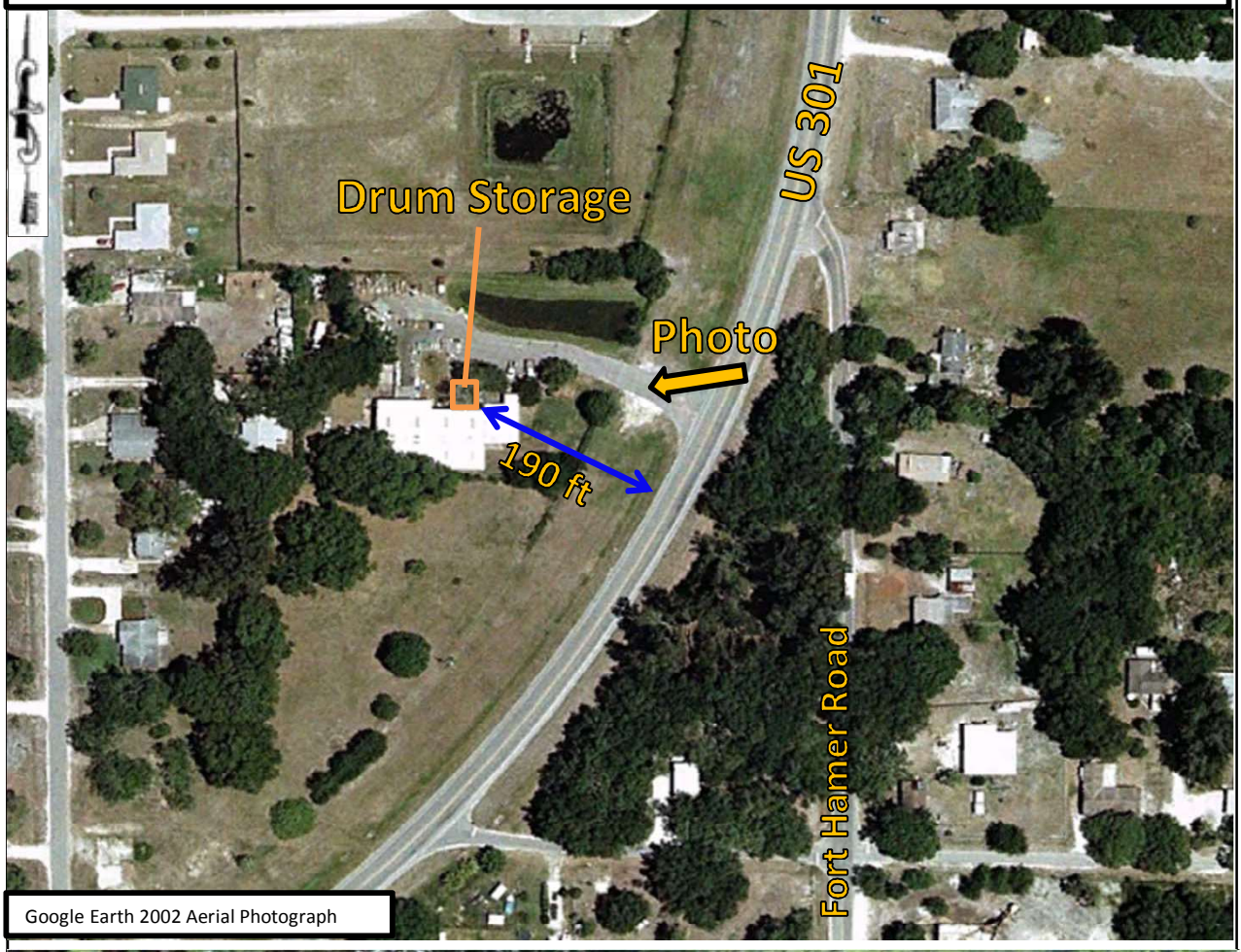


Google Earth 2002 Aerial Photograph

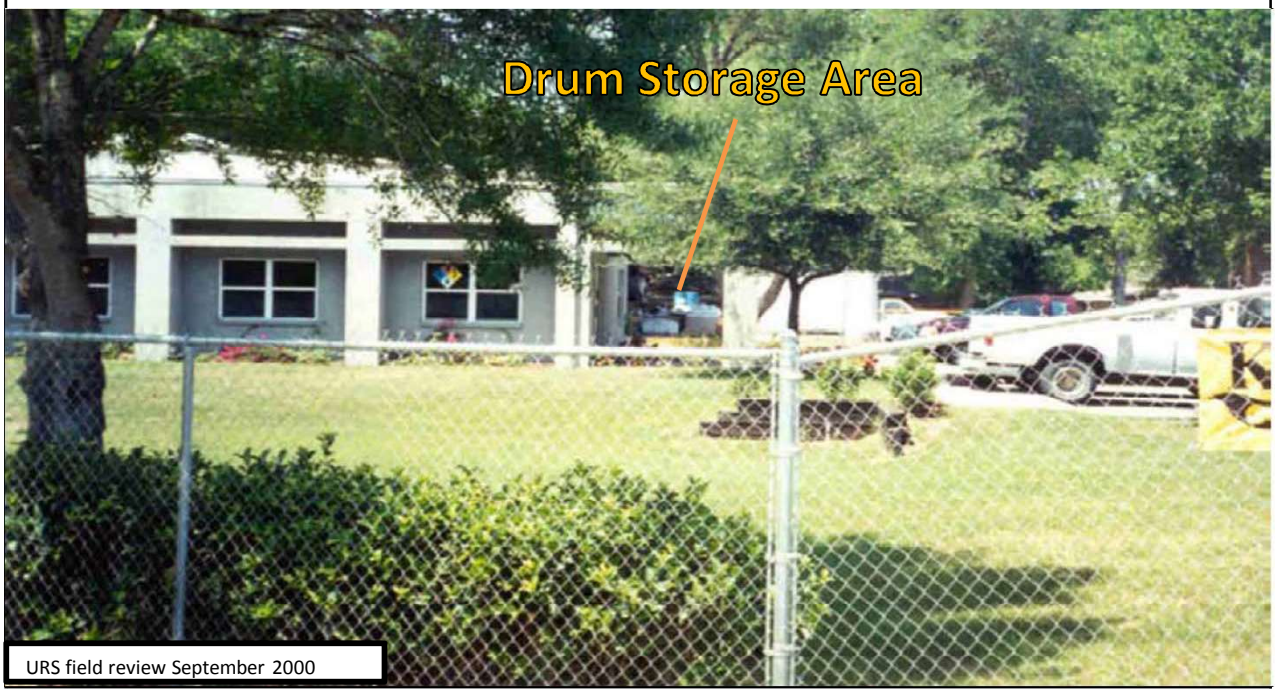
URS field review September 2000

Fort Hamer Alternative
United Argi Products

Site 9



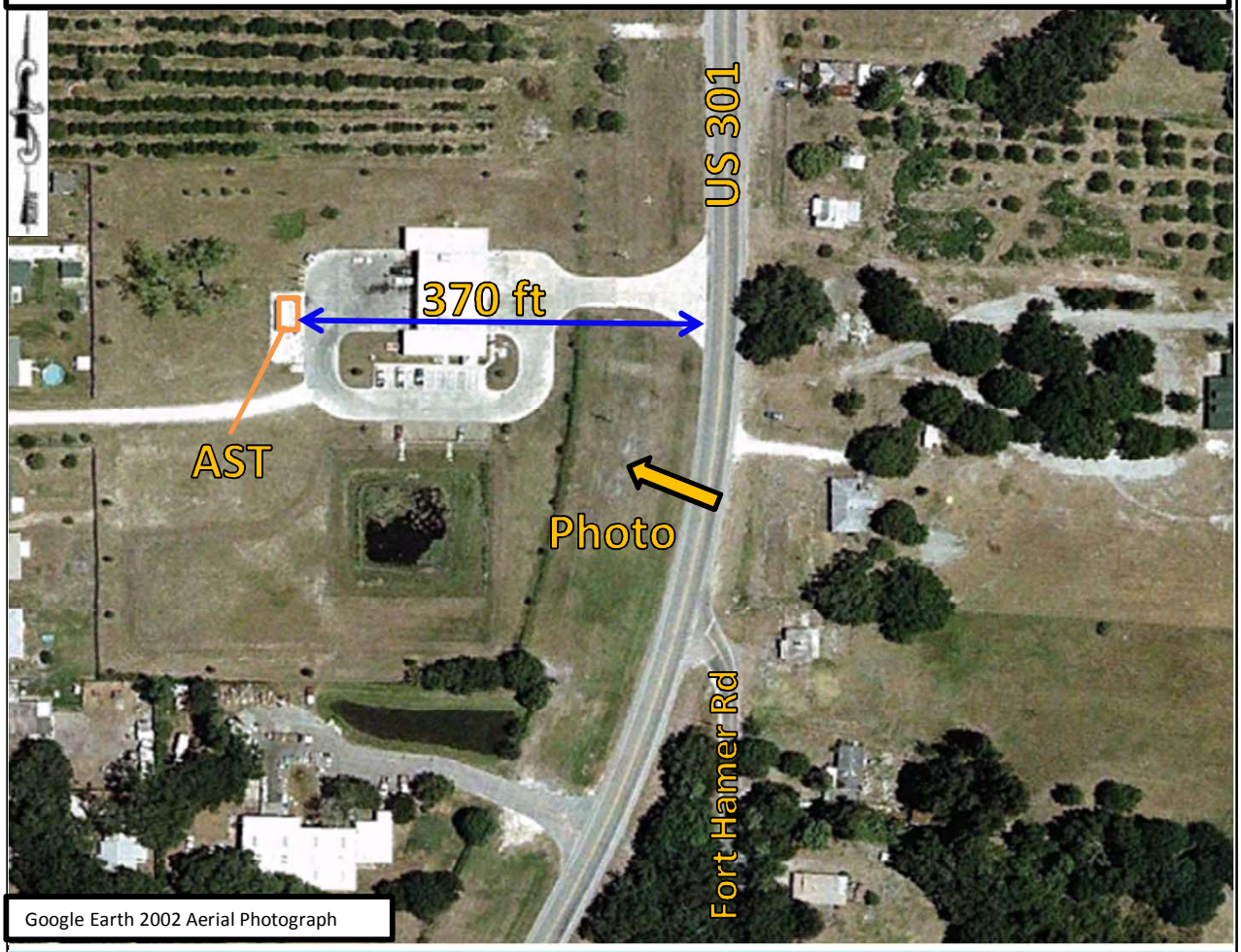
Google Earth 2002 Aerial Photograph



URS field review September 2000

Fort Hamer Alternative
Manatee County Parrish Fuel Site

Site 10

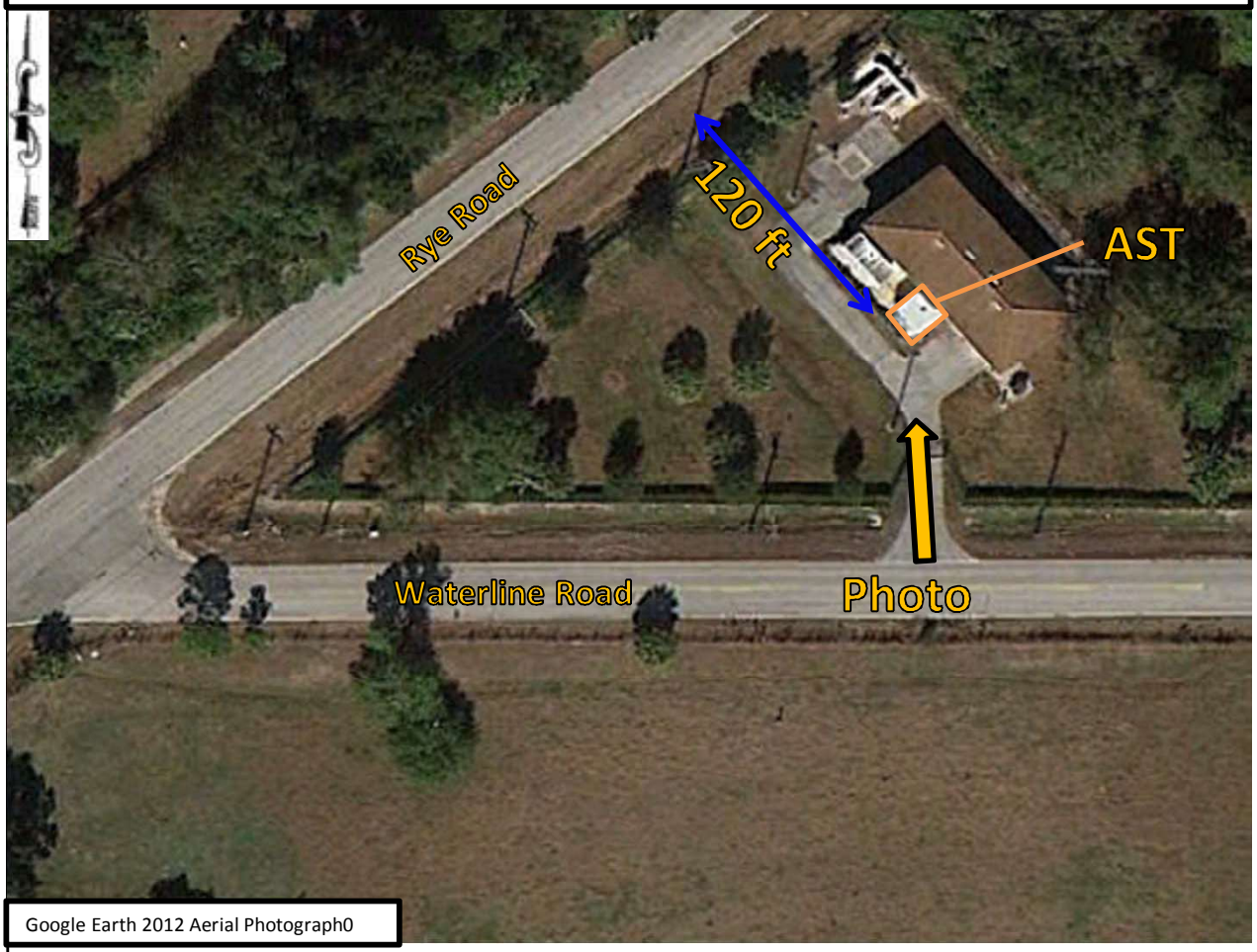


Google Earth 2002 Aerial Photograph

URS field review September 2000

Rye Road Alternative
Manatee County Booster Pump

Site 4

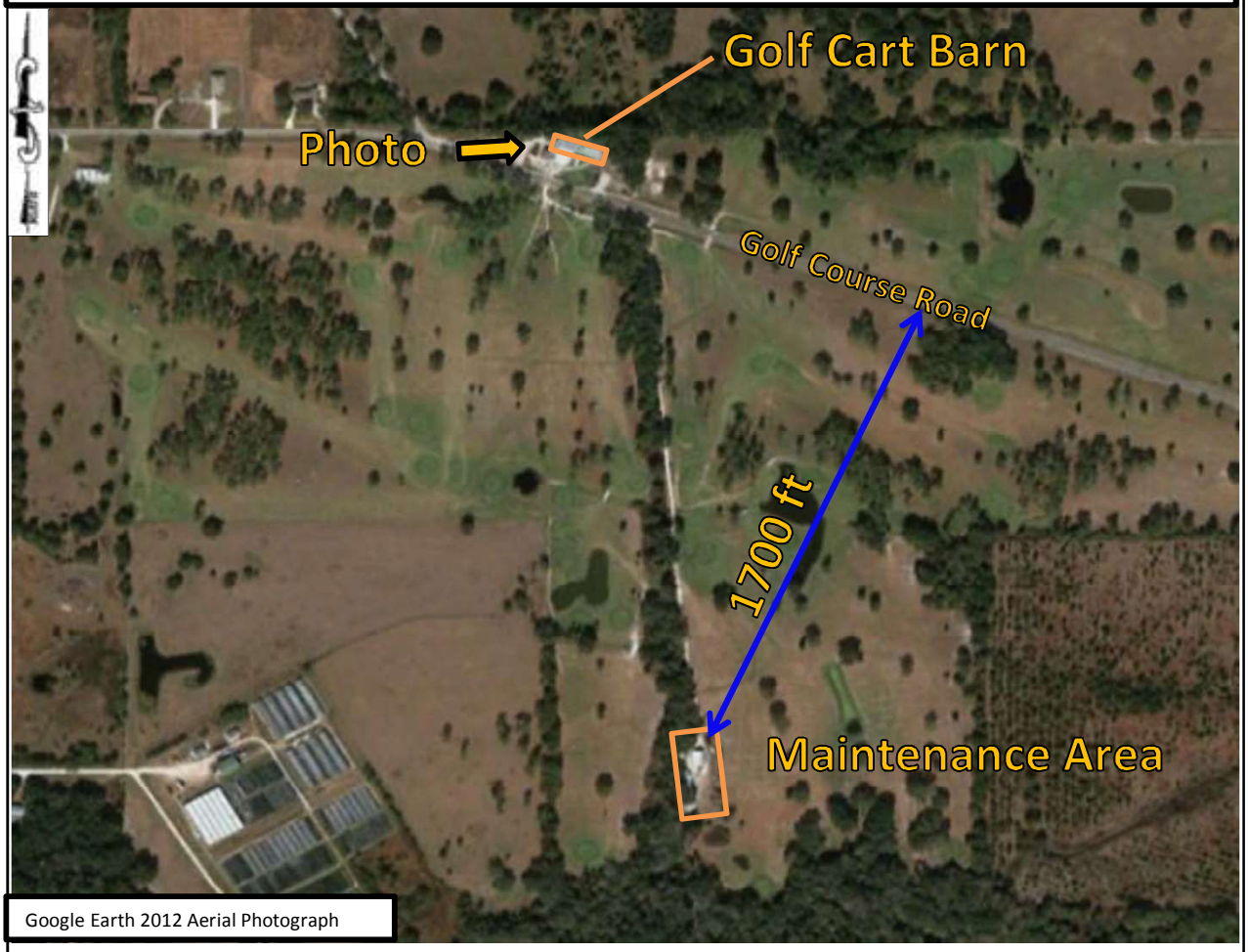


Google Earth 2012 Aerial Photograph0

URS field review September 8, 2006

Rye Road Alternative
Palmetto Pines Golf Course

Site 9

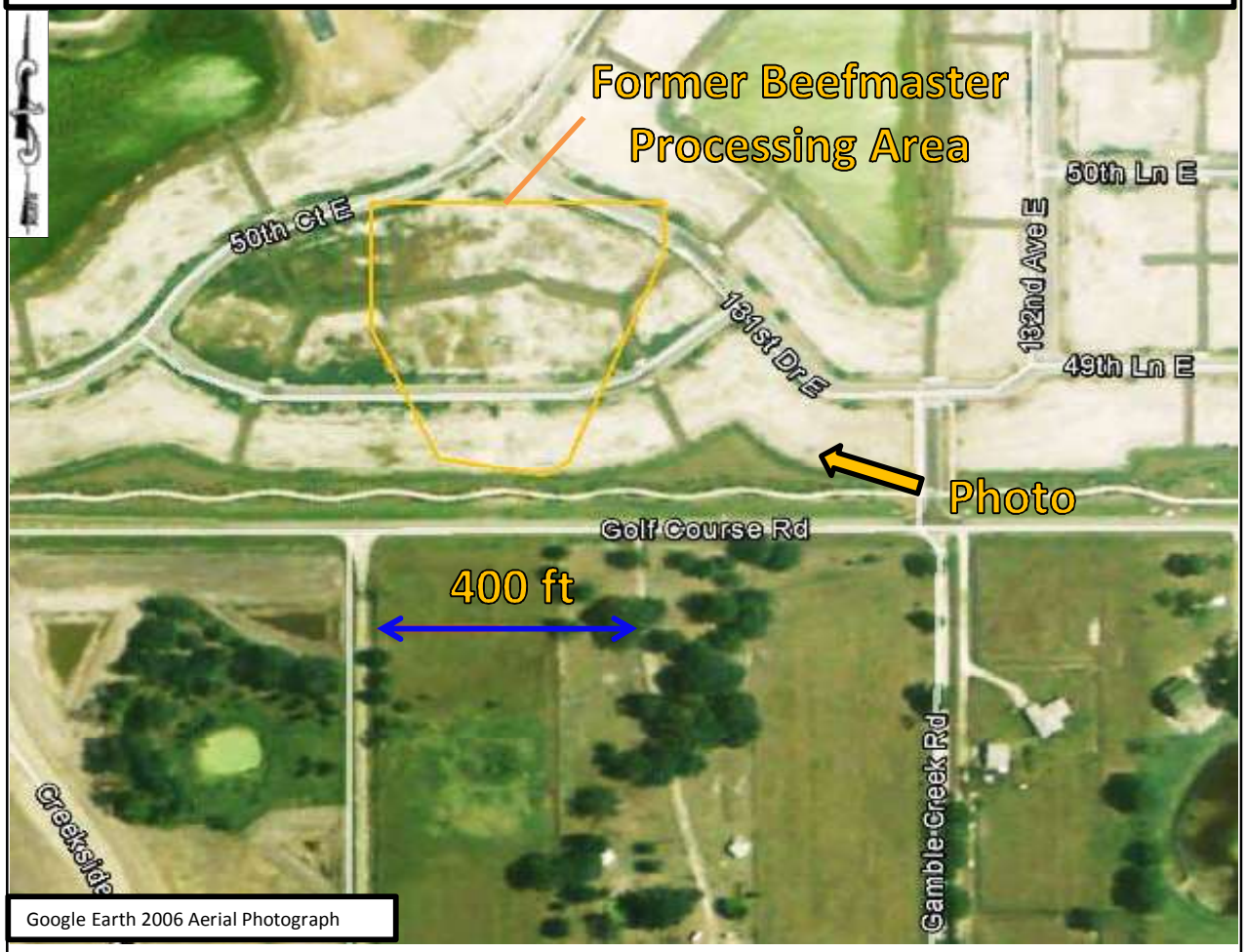


Google Earth 2012 Aerial Photograph

URS field review September 8, 2006

Rye Road Alternative
Gamble Creek Estates

Site 11

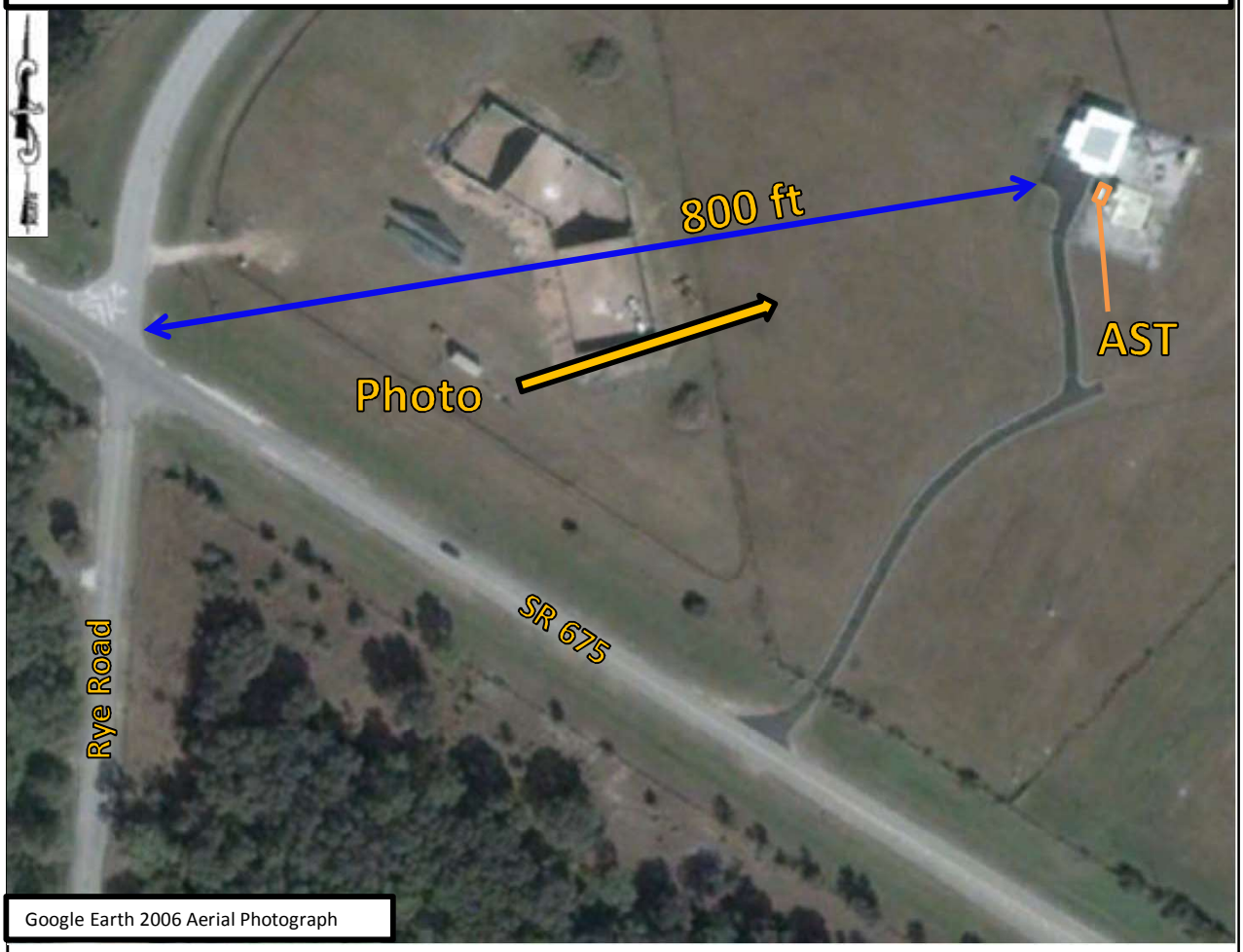


Google Earth 2006 Aerial Photograph

URS field review September 8, 2006

Rye Road Alternative
Southern Broadcast Corp

Site 12

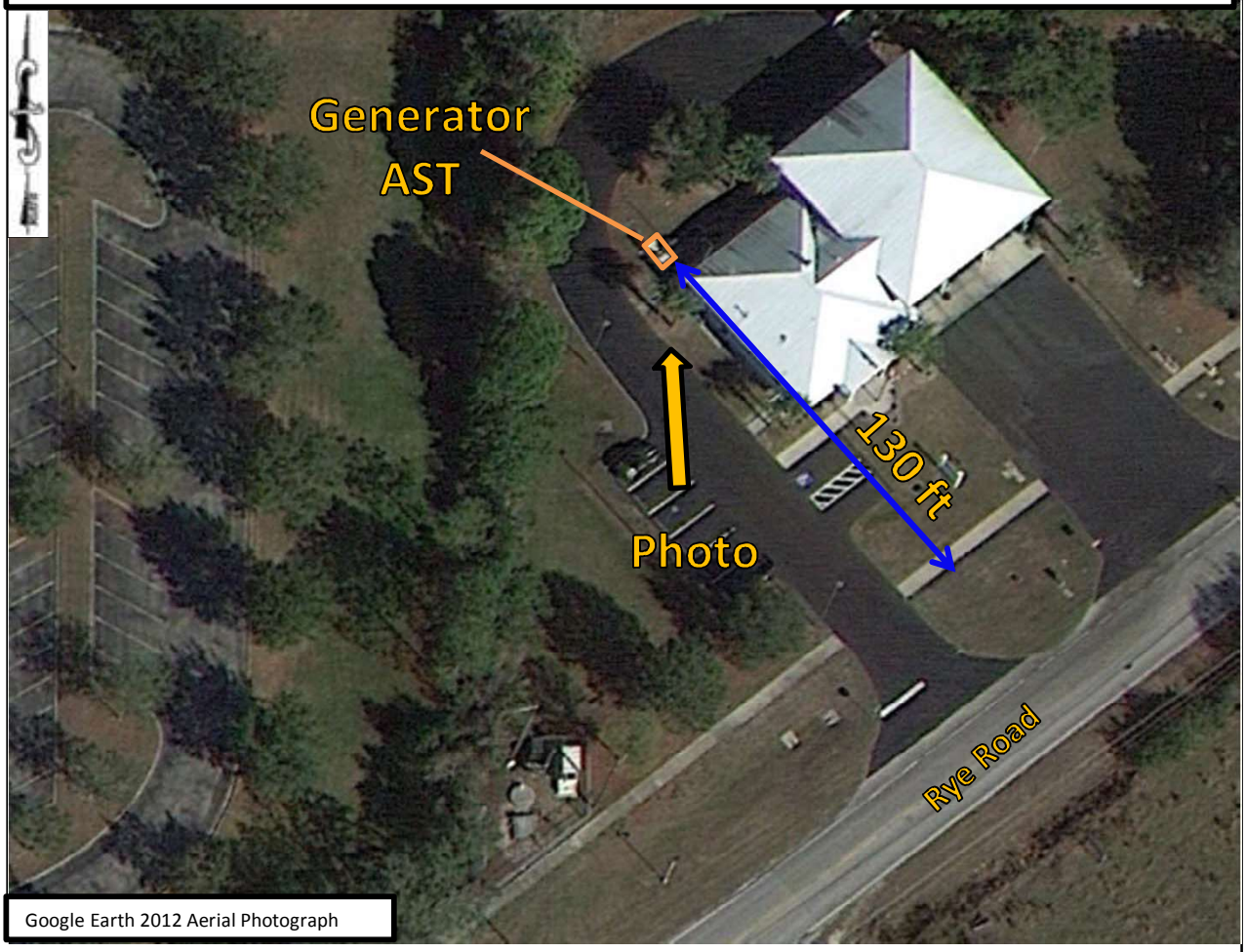


Google Earth 2006 Aerial Photograph

URS field review September 8, 2006

Rye Road Alternative
Braden River Fire Station No.3

Site FR-1

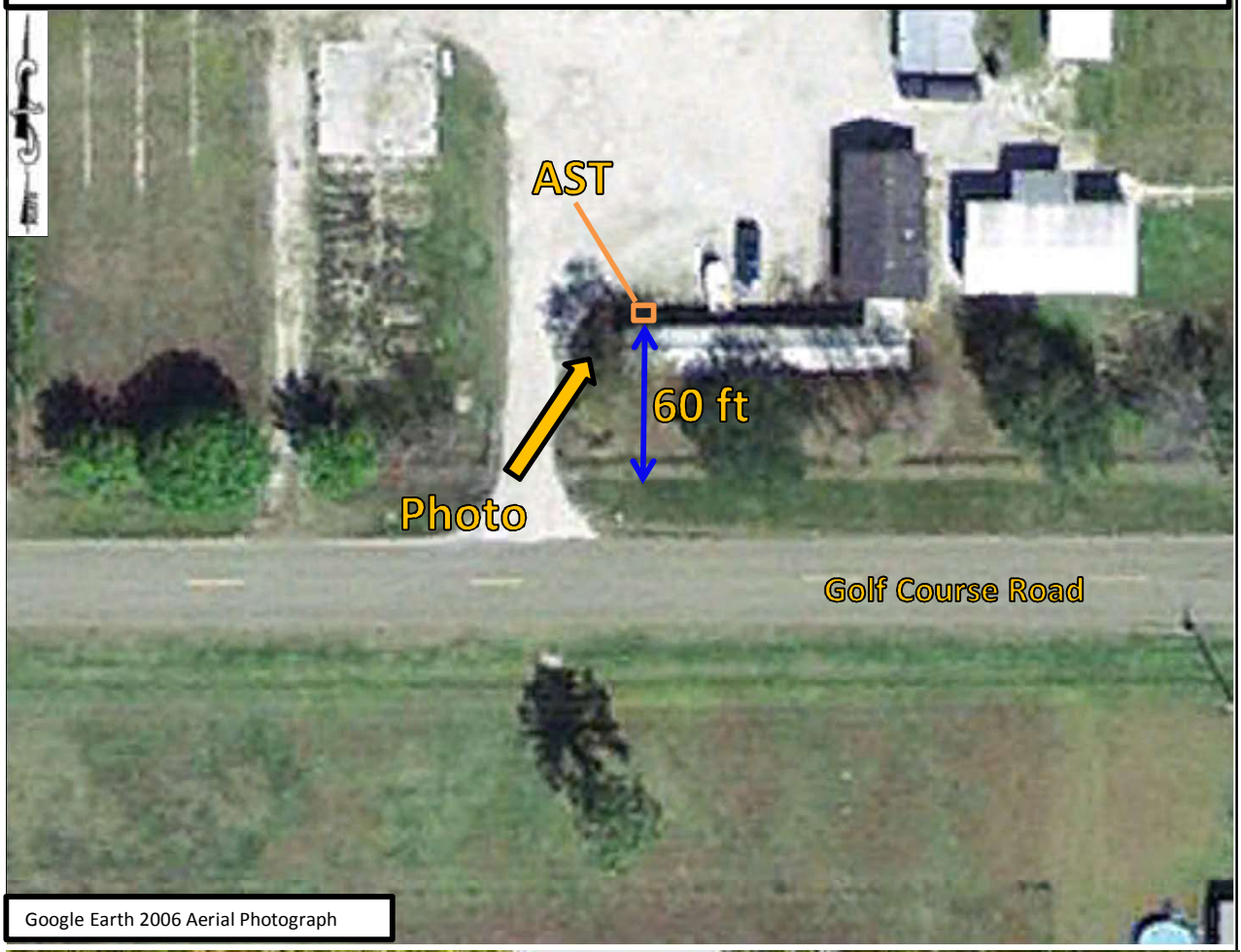


Google Earth 2012 Aerial Photograph

URS field review September 8, 2006

Rye Road Alternative
ECO Corporation

Site FR-3



Google Earth 2006 Aerial Photograph

URS field review September 8, 2006

APPENDIX C

Regulatory File Information

Fort Hamer Alternative

Site 2
Moore Property

One tank was removed in July 1997.

Only assessment work conducted was the closure assessment dated July 17, 1997.

Department of Environmental Protection

Jeb Bush
Governor

Twin Towers Office Building
2600 Blair Stone Road
Tallahassee, Florida 32399-2400

David B.Struhs
Secretary

February 10, 2000

Ms. Virginia Moore
108 Upper Manatee River Road
Bradenton, FL 34202

Re: Moore Property
FDEP Facility # **419700838**
Discharge Date: July 17, 1997

Dear Ms. Moore:

The Florida Department of Environmental Protection is required to direct the cleanup of petroleum contamination sites in priority order and by preapproval of the scope and cost of all work that is funded by the State. The priority order for cleanup is determined pursuant to the Petroleum Cleanup Site Priority Ranking Rule, Chapter 62-771, Florida Administrative Code.

Each site eligible for cleanup funding assistance is scored according to this system. The above site has received a score of **45**. Each eligible site is ranked in relation to all other eligible sites. Ranking and funding are performed by the DEP quarterly in February, May, August, and November of each year. Currently funding is available for all sites with a priority score of 50 or greater. Therefore, funding is not available this year for continued rehabilitation at your site.

If you believe our records are in error or have any questions, please contact me at 850/224-2599.

Sincerely,

Brian King
USTM Operations Manager

BK/as
Enclosure: PCT printout
cc: Southwest District DEP Office
File

Department of
Environmental Protection

Lawton Chiles
Governor

Twin Towers Office Building
2600 Blair Stone Road
Tallahassee, Florida 32399-2400

Virginia B. Wetherell
Secretary

November 25, 1997

Ms. Virginia Moore
108 Upper Manatee River Road
Bradenton, Florida 34202

Re: Moore Property; FDEP Facility ID Number 419700838

Dear Ms. Moore:

The Site Priority Ranking Rule, Chapter 62-771, Florida Administrative Code, establishes a scoring system the Department uses to assign priority scores to petroleum contaminated sites. The scoring system is based upon the potential threat to public health, safety, and welfare; drinking water supplies; and the environment.

Each site eligible for cleanup funding assistance is scored according to this system. The above site has received a score of **45**. Each eligible site is ranked in relation to all other eligible sites. Ranking and funding are performed by the DEP quarterly in February, May, August, and November of each year. A letter will be sent to the registered site owner indicating the facility's score and rank following the next quarterly ranking. Thereafter, all program sites receive an annual ranking letter in November.

If you have any questions or comments on your site's score or rank, please contact me at the letterhead address, Mail Station 4545 or call 850/487-3299.

Sincerely,

Grace Rivera
Environmental Specialist III
Petroleum Cleanup Section

GR/jss
Enclosure: PCT006

(E)

cc: Southwest District DEP Office

Facility ID#: 41/9700838
Site Name: Moore Property
Site Address: 100 Upper Manatee River Rd Bradenton
Latitude 27 29 58 Longitude 82 26 03
Lorraine topo Map Expert 11/97

Site Priority Ranking

Criteria:

	Yes	No	Points
Fire/Explosion Hazard:			
1. Free product or volatilized petroleum products at or above 20% of the Lower Explosive Limit (LEL) in existing utility conduits or vaults, buildings or other inhabited confined spaces (60 points).	____	✓	0
2. Ignitable free product on surface waters or impoundments (60 points).	____	✓	0
Threat to Uncontaminated Drinking Water Supplies:			
1. Uncontaminated municipal or community well fields of greater than 100,000 gallons per day permitted capacity with a well within 1/2 mile of the site (30 points).	____	✓	0

7/97 SI Ø DWDB Ø HRS 0 11/97

Additionally:

a. If the well field's 1 foot draw down contour is known to encompass the site regardless of the well field's distance from the site (20 points).	____	✓	0
or			
b. If the well field is located down gradient of the site (15 points).	____	✓	0
2. Uncontaminated private wells constructed **prior** to date of contamination discovery, or uncontaminated public water system well field with less than 100,000 gallons per day permitted capacity with a well within 1/4 mile of the site (20 points).	✓	____	20

SI Y-on-site DWDB HRS 1-on site

Additionally:

a. If the well field's 1 foot draw down contour is known to encompass the site regardless of the well field's distance from the site (10 points).	✓	____	10
or			
b. If the well field is located down gradient of the site (5 points).	✓	____	5
3. Uncontaminated surface water body used as a public water system supply within 1/2 mile of the site (10 points).	____	✓	0

	Yes	No	Points
Migration Potential:			
1. Source Characteristics (select only one)			
a. Recent spills or free product found in wells/ boreholes (4 points) except free product of 2 inches or more in 2 or more wells/boreholes (6 points).		✓	0
b. Recent product loss or wells/groundwater contaminated but no free product (2 points). SI	✓		2
2. Product Type (select only one):			
a. Light petroleum product (kerosene, gasoline, aviation fuel and similar petroleum products) with water soluble additives or enhancers (MTBE, ethanol and similar substances) (3 points).		✓	0
b. Light petroleum product with no additives or enhancers (2 points).	✓		2
c. Heavy petroleum product (fuel oil, diesel and similar petroleum products) (1 point).		✓	0
Environmental Setting:			
1. Site located in G-1 aquifer (4 points).		✓	0
2. Site located in a G-2 aquifer (2 points).	✓		2
3. Site located in high recharge/permeability geological area (4 points). limestone aquifer	✓		4
4. Site located within 1/2 mile of an Outstanding Florida Water (1 point).		✓	0

Total Points: 45

Comments: Manatee Cnty; SW Dist

Janette Saba-Sturm
Signature

11-25-97
Date

ENVIRONMENTAL SAFETY CONSULTANTS, INC.

July 17, 1997

RECEIVED
JUL 30 1997
E.M.D.

Mr. Jack H. Eubank
JACK H. EUBANK, INC.
3516 36th Avenue East
Palmetto, Florida 34221

Re: Report of Results, Closure Monitoring Assessment
Elaine Hudson Property, Gasoline Tank
Upper Manatee River Road, North of State Road 64,
Manatee County, Florida

Dear Mr. Eubank:

As you know, Jack H. Eubank, Inc. (JHE) contracted with Environmental Safety Consultants, Inc. (ESC) to complete a Closure Monitoring Assessment for the above-referenced site. The previous underground storage tank (UST) facility had one (1) 2,000-gallon gasoline tank which was located as shown in Figure 1. The Assessment's objective was to determine if the soil and groundwater were contaminated, per the requirements of Rule 62-761.800, Florida Administrative Code (F.A.C.), and Part 280.72 in Title 40 of the Code of Federal Regulations (40 CFR 280.72).

PROJECT SCOPE

The original workscope, outlined in the Professional Services Agreement of July 1, 1997, included the following:

1) Survey soil at the bottom and sides of the UST vault with an organic vapor analyzer/flame ionization detector (OVA);

2) Install one (1) temporary monitor well (TMW) in the tank vault;

3) Collect a groundwater sample from the TMW plus one equipment rinsate quality control sample following Quality Assurance Plan and EPA Standard Operating Procedures;

4) Analyze the groundwater sample and, if low levels of contamination are detected, the equipment rinsate quality control sample in a State-certified laboratory for contamination using EPA Method 602; and

5) Prepare: (a) two (2) copies of one written Report of Closure Monitoring Assessment Results for soil and groundwater testing in terms of contamination criteria established in Rule 62-770, F.A.C.; and (b) the Closure Assessment and Storage Tank Registration Forms.

ESC has completed all work elements to date including the report, which is provided herein.

6400 Manatee Avenue West • Suite C • Bradenton, Florida 34209-2357 • Telephone: 941·795-2399 • 800·226-1735 • Fax: 941·792-1735

1.0 METHODS

1.1 Quality Control

ESC completed the Closure Monitoring Assessment in accordance with its Comprehensive Quality Assurance Plan (CompQAP) No. 920028G approved by the Florida Department of Environmental Protection (FDEP). All sampling procedures corresponded to the guidelines documented in the EPA Engineering Support Branch Standard Operating Procedures and Quality Assurance Manual, Region IV, February 1991 and the Florida Department of Environmental Regulation Standard Operating Procedures for Laboratory Operations and Sample Collection Activities, September 30, 1992.

ESC used only decontaminated equipment to collect the soil and groundwater samples. Purging and sampling of the groundwater from the TMW were completed by using a Teflon® bailer, which was decontaminated per the procedure below at ESC's offices prior to the field event. All soil samples were collected using a stainless steel auger and glass jars, which were decontaminated using the same procedure at ESC's offices prior to the field event, as well as between samples. ESC's decontamination procedure involved:

1) Rinse with deionized water;
2) Wash with Liquinox detergent and brush;
3) Rinse with deionized water;
4) Rinse with organic-free decontamination water; and
5) Rinse with nanograde isopropyl alcohol.

All water, detergent, and alcohol used were in strict accordance with ESC's CompQAP. Prior to usage, the clean equipment was allowed to air dry and stored on clean aluminum foil. Disposable latex gloves were worn by ESC's Environmental Technician during sampling.

1.2 Stations

Organic vapor survey (OVS) soil station locations were determined via the layout of the tank observed during excavation. Eight (8) soil stations were established around the perimeter of the tank vault. Water was encountered in the excavation which prevented readings being taken directly under the tank. The groundwater monitoring station, TMW-1, was established in the center of the tank vault. All station locations are shown on Figure 1.

1.3 Soil Survey Methods

The OVS was completed by analyzing the vapors in the headspace above each soil sample in a 16-ounce glass jar which was decontaminated at ESC's offices prior to the field event. A separate jar was used for each sample. Prior to analysis, the jar was filled halfway with the soil sample, then tightly sealed. The sample was set aside for a uniform time period to allow the vapors to equilibrate. The headspace was then analyzed using a Heath OVA, Model Porta-Fid II. The OVA instrument was field calibrated initially and as required during the survey. The readout was for a vapor concentration of total petroleum hydrocarbons (TPH) in parts per million (ppm). An additional reading was taken with the carbon filter to quantify methane by screening out the long chain petroleum hydrocarbons. The filtered reading was subtracted from the unfiltered reading yielding the final TPH reading. The times of collection, station locations, and

other pertinent data were recorded in the Field Log Book as well as on the attached Closure Monitoring Assessment Field Event Record (FER).

1.4 Groundwater Monitoring Methods

TMW-1 was installed to a depth of 4.00 feet in the tank vault after tank removal and backfilling. TMW-1 was constructed of a 0.010-inch slotted, two-inch diameter PVC well screen connected to a solid two-inch diameter PVC riser.

The well was allowed to equilibrate for a period of time, then purged and sampled. The static water level below the ground surface was measured in TMW-1, and the well volume was determined. An equipment rinsate quality control sample was collected by pouring organic-free decontamination water into the Teflon® bailer prior to sample collection, and then into a sample container. The Teflon® bailer was used to purge the well until dry. The samples were collected with the Teflon® bailer, then transferred into sample containers, preserved, sealed, and iced for analysis at the laboratory. A trip blank quality control sample was transported along with the other samples and handled in the same manner.

The times of collection, station locations, and other pertinent data were recorded in the Field Log Book as well as on the attached FER. A Chain-of-Custody Record form was completed to accompany the samples to Progress Environmental Laboratories (PEL's) facility located in Tampa, Florida. The laboratory holds state identification number E84207 issued by the Florida Department of Health and Rehabilitative Services. The samples were processed and analyzed via EPA Method 602 in strict accordance with ESC's CompQAP, as well as the PEL's CompQAP No. 900306G, approved by the FDEP.

2.0 RESULTS

2.1 Soil Survey Results

The OVS completed at the site on July 10, 1997, yielded the results provided on the attached FER. The TPH readings at all of the stations in the tank vault were below the State's 500 ppm excessive contamination threshold for the gasoline analytical group, as stipulated in Rule 62-770, F.A.C. The highest of these was 190 ppm at Station B4. No fuel odors or staining were noted during the soil survey. All excavated soils exhibited TPH readings less than 50 ppm and were returned to the former tank vault. The balance of the vault was backfilled with clean fill exhibiting TPH readings less than 5 ppm.

2.2 Groundwater Monitoring Results

The static water level in TMW-1 was measured to be 2.72 feet below the surface. The well extended 1.28 feet into the water table. The well volume and purging data are included on the attached FER. The quality control and groundwater samples were collected and managed in accordance with the methods previously identified.

The analytical results for the groundwater sample collected from TMW-1, provided on the attached PEL Analysis Report with Sample Description 977123, TMW-1, show contaminants to be present above detection limits. Benzene, toluene, ethylbenzene, and xylenes were found at levels of 3.9, 6.4, 324, and 29.6 micrograms per liter (ug/l), respectively. The total level of these compounds, 363.9 ug/l exceeds the site rehabilitation level (SRL), of 50 ug/l for total volatile organic aromatics (VOA) provided in Rule 62-

770, F.A.C. Based on these results, the groundwater is considered to be contaminated according to the State's criteria. As shown on the PEL's Analysis Report with Sample Description Trip Blank, analysis of the trip blank quality control sample showed all parameters to be below detectable limits, which verified the integrity of the data. Since contaminants were detected above borderline levels, it was not necessary to analyze the equipment rinsate quality control sample.

3.0 CONCLUSIONS

Based on the results herein, ESC concludes that there is no soil contamination but that there is groundwater contamination at the former UST vault depicted in Figure 1 at the Elaine Hudson Property. A contamination assessment to investigate the extent of groundwater contamination will be required at this site, in accordance with Rule 62-770, F.A.C. The assessment will have to be started with thirty (30) days and completed within nine (9) months.

4.0 STATE FORMS

The Discharge Reporting Form (DRF), and Closure Assessment Form are attached. The Storage Tank Registration Form, and UST Installation and Removal Form have been handled by Mr Paul Panick with Manatee County. mw(sign and date it), Please attach the Tank Manifest and forward all of the forms along with this report to your client. They must submit the DRF to the Manatee County Environmental Management Department (MCEMD) within twenty-four hours of receipt. A copy of the complete report with all attachments must be submitted to MCEMD as well. Keep a copy of each form and this report for your records.

Sincerely,

ENVIRONMENTAL SAFETY CONSULTANTS, INC.

Christopher G. Stirrat, P.E.
Staff Engineer

CGS:cc

Enclosures

Project No. 0097-0071

f:\wp51\data\reports\result71.jhe

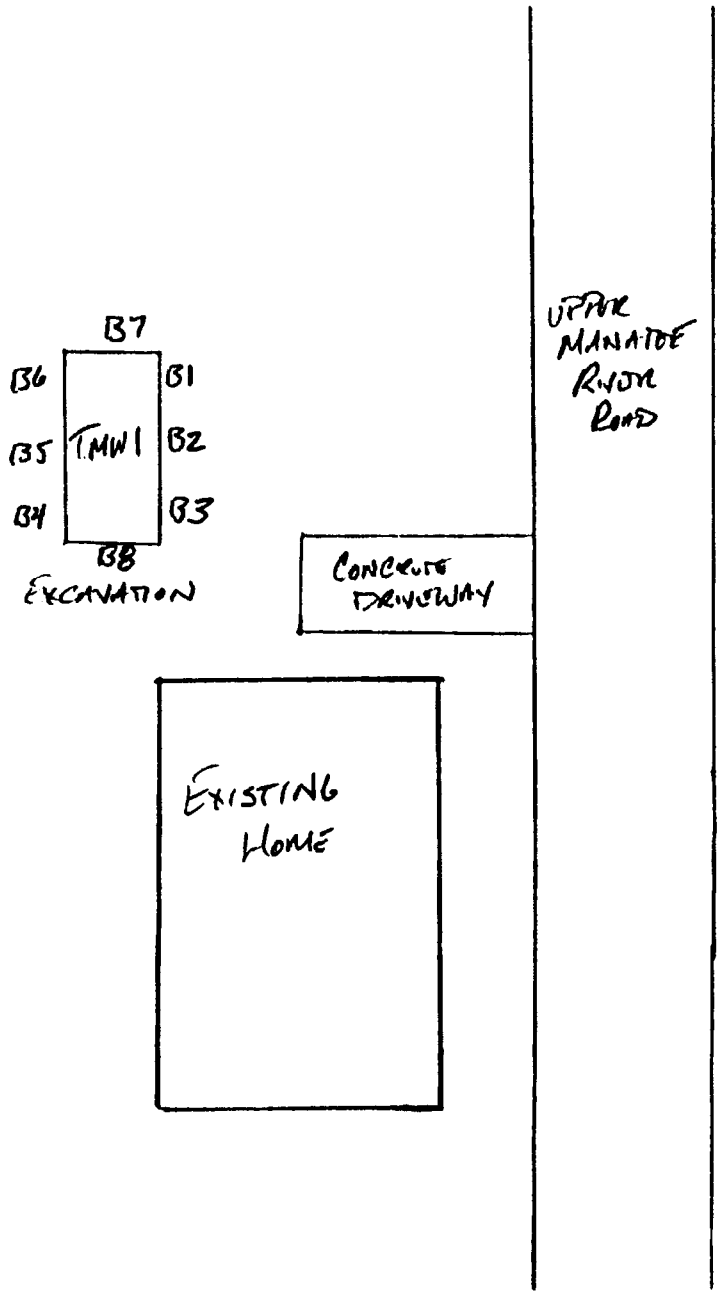


Figure 1. Site Plan of Elaine Hudson Property at 108 Upper Manatee River Road, Bradenton, Florida.

CLOSURE MONITORING ASSESSMENT FIELD EVENT RECORD

Client JACK EUBANK Project No. 0097-0071

Site Name Elaine Hudson Property Site Location BRADENTON

DER Facility ID No. N.A.

Date 7/10/97 Time (hrs.) 1000 Technician MATT CE

GROUNDWATER

Well Number TMW 1 Note: All depths corrected to ground level.

(Casing Depth, in.) - (Static Water Level, in.) = Water Depth, in.

(48, in.) - (32.64, in.) = 15.36, in.

(Water Depth, in.) π (Casing Radius, in.)² = Well Volume, in.³

(15.36, in.) π (1, in.)² = 48.25, in.³

(Well Volume, in.³) (0.01639 l/in.³) = Well Volume, l

(48.25, in.³) (0.01639 l/in.³) = 0.80, l

Purging Equipment 0.33 Teflon Bailer Purged Dry? Yes (if not, complete table)

Time, hrs.	Volume	Temp., °C	pH	Cond., umhos/cm	Notes
	1				
	2				
	3				
	4				
	5				

Sampling Equipment 0.33 L Teflon Bailer Trip Blank No. 97713

Sample No. 97712 Rinsate No. 97711 Field Blank No. —

Parameters/Methods GOZ

SOIL

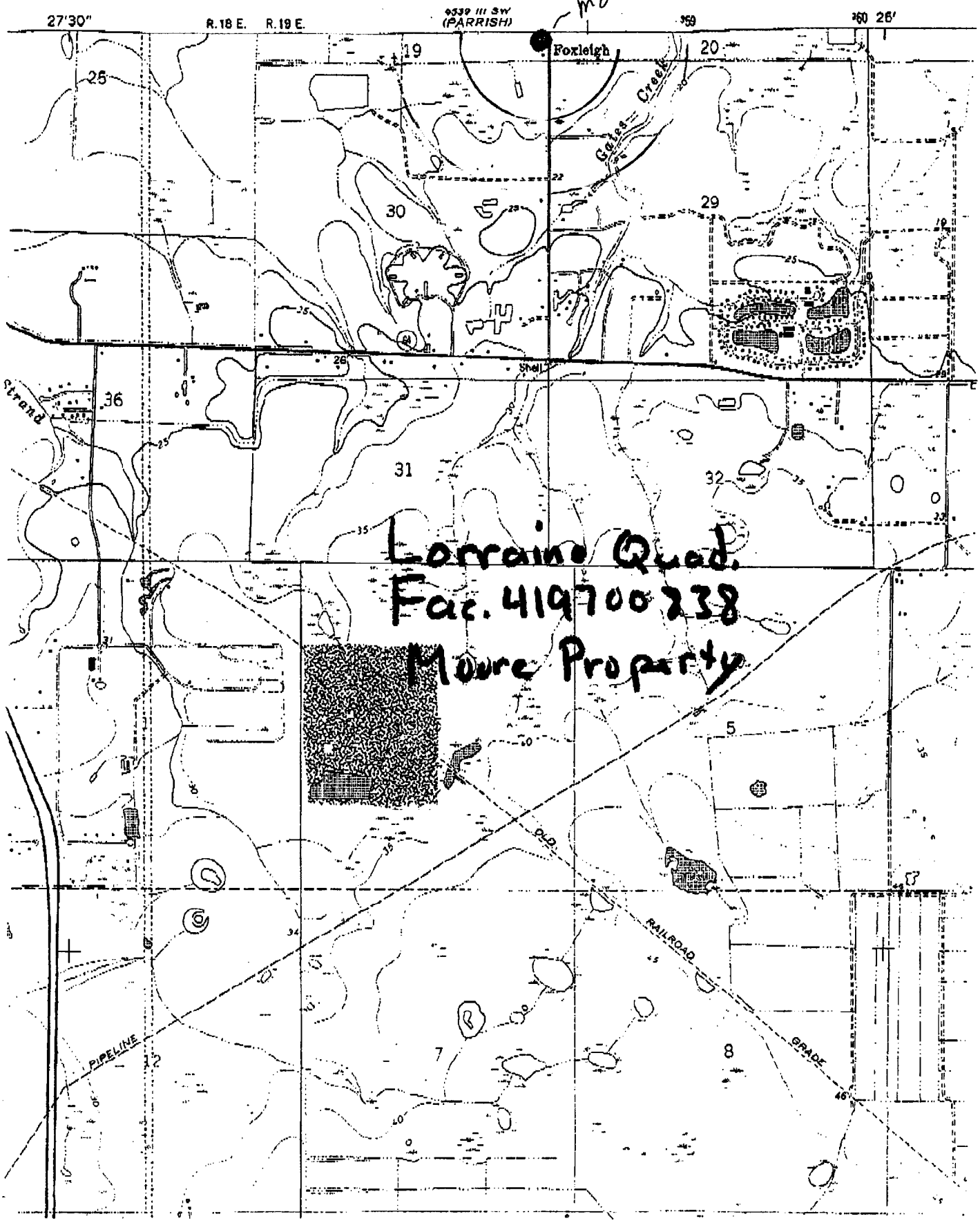
Sampling Equipment S.S. HAND AUGER GLASS MASON JARS

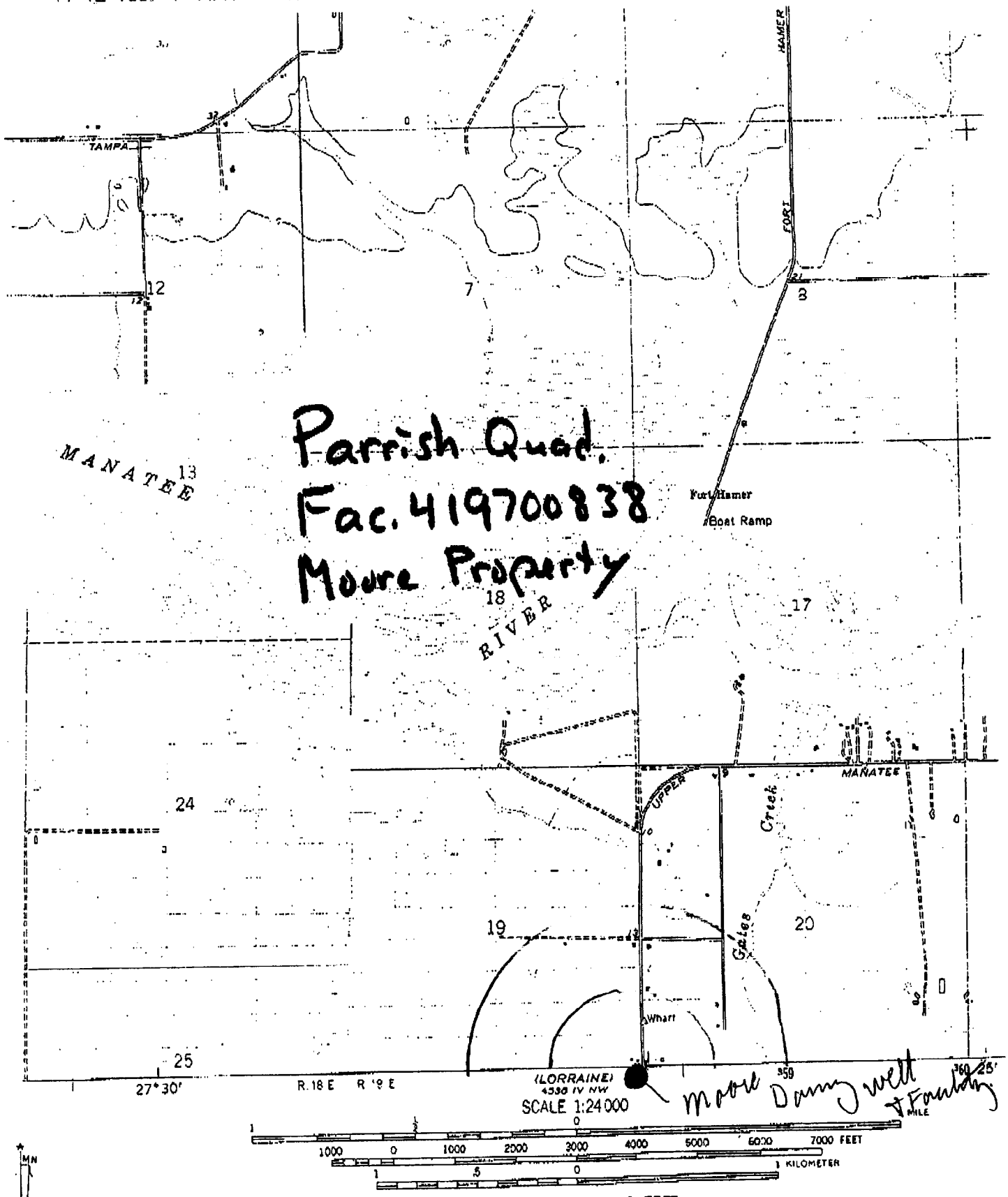
Station No.	Time, hrs.	Total Petroleum Hydrocarbon Vapor, ppm Unfiltered	Filtered	Final	Odors/Staining	
B1	1015	5	0	5	N	N
B2	1016	8	0	8	N	N
B3	1017	45	0	45	N	N
B4	1019	290	100	190	Y ORGANIC	N
B5	1021	10	10	0	N	N
B6	1021	3	0	3	N	N
B7	1022	0	0	0	N	N
B8	1024	7	0	7	N	N

Environmental Safety Consultants, Inc.

Moore Dairy well + Facility

STATE OF FLORIDA





CONTOUR INTERVAL 5 FEET
NATIONAL GEODETIC VERTICAL DATUM OF 1929
SOUNDINGS IN FEET—DATUM IS MEAN LOW WATER
SHORELINE SHOWN REPRESENTS THE APPROXIMATE LINE OF MEAN HIGH WATER
THE MEAN RANGE OF TIDE IS APPROXIMATELY 2.2 FEET

THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS

Florida Department of Environmental Regulation

Twin Towers Office Bldg. • 2600 Blair Stone Road • Tallahassee, Florida 32399-2400

DER Form # 17-761.900(1)
Form Title Discharge Reporting Form
Effective Date December 10, 1990
DER Application No ______ (Filled in by DER)

Discharge Reporting Form

Use this form to notify the Department of Environmental Regulation of:

1. Results of tank tightness testing that exceed allowable tolerances within ten days of receipt of test result.
2. Petroleum discharges exceeding 25 gallons on pervious surfaces as described in Section 17-761.460 F.A.C. within one working day of discovery.
3. Hazardous substance (CERCLA regulated), discharges exceeding applicable reportable quantities established in 17-761.460(2) F.A.C., within one working day of the discovery.
4. Within one working day of discovery of suspected releases confirmed by: (a) released regulated substances or pollutants discovered in the surrounding area, (b) unusual and unexplained storage system operating conditions, (c) monitoring results from a leak detection method or from a tank closure assessment that indicate a release may have occurred, or (d) manual tank gauging results for tanks of 550 gallons or less, exceeding ten gallons per weekly test or five gallons averaged over four consecutive weekly tests.

Mail to the DER District Office in your area listed on the reverse side of this form

PLEASE PRINT OR TYPE
Complete all applicable blanks

1. DER Facility ID Number: N/A 2. Tank Number: 1 3. Date: 7/17/97
4. Facility Name: Elaine Hudson Property (Moore Property)
   Facility Owner or Operator: Elaine Hudson
   Facility Address: 108 Upper Manatee River Road, Bradenton Fl 34202
   Telephone Number: (941) 794-6585 County: Manatee
   Mailing Address: 108 Upper Manatee River Road, Bradenton Fl 34202
5. Date of receipt of test results or discovery: 7/17/97 month/day/year
6. Method of initial discovery. (circle one **only**)
   A. Liquid detector (automatic or manual) D. Emptying and Inspection. F. Vapor or visible signs of a discharge in the vicinity.
   B. Vapor detector (automatic or manual) E. Inventory control. (G.) Closure: Lab report, 6 OZ (explain)
   C. Tightness test (underground tanks only). H. Other: ______
7. Estimated number of gallons discharged: Unknown
8. What part of storage system has leaked? (circle all that apply) A. Dispenser B. Pipe C. Fitting D. Tank (E.) Unknown
9. Type of regulated substance discharged. (circle one)
   A. leaded gasoline D. vehicular diesel L. used/waste oil V. hazardous substance includes pesticides, ammonia, chlorine and derivatives (write in name or Chemical Abstract Service CAS number) ______
   (B.) unleaded gasoline F. aviation gas M. diesel
   C. gasohol G. jet fuel O. new/lube oil Z. other (write in name) ______
10. Cause of leak. (circle all that apply)
   (A.) Unknown C. Loose connection E. Puncture G. Spill ______. I. Other (specify) ______
   B. Split D. Corrosion F. Installation failure H. Overfill
11. Type of financial responsibility. (circle one)
   A. Third party insurance provided by the state insurance contractor C. Not applicable
   B. Self-insurance pursuant to Chapter 17-769.500 F.A.C. (D.) None
12. **To the best of my knowledge and belief all information submitted on this form is true, accurate, and complete.**

Elaine Hudson
Printed Name of Owner, Operator or Authorized Representative

______
Signature of Owner, Operator or Authorized Representative

Northwest District	Northeast District	Central District	Southwest District	South District	Southeast District
160 Governmental Center Pensacola, Florida 32501-5794 904-436-8300	7825 Baymeadows Way, Suite B 200 Jacksonville, Florida 32207 904-798-4200	3319 Maguire Blvd. Suite 232 Orlando, Florida 32803-3767 407-894-7555	4520 Oak Fair Blvd. Tampa, Florida 33610-7347 813-623-5561	2269 Bay St. Fort Myers, Florida 33901-2896 813-332-6975	1900 S. Congress Ave., Suite A West Palm Beach, Florida 33406 407-433-2650

Department of Environmental Protection

FLORIDA PETROLEUM LIABILITY RESTORATION AND INSURANCE PROGRAM COMPLIANCE CHECKLIST

☐ FPLRIP ☐ ATRP ☑ PCPP ☐ OTHER DATE OF DISCHARGE: 7-17-97

Date: 7-30-97 DEP Facility Number: Parking

Facility Name: Moore Property

Facility Address: 108 Upper Manatee River Road
Bradenton 34202

Contact Person: Virginia Moore Telephone: (941) 746-5584

Latitude: 27° 29' 58" Longitude: 82° 26' 03"

For the items below that may indicate non-compliance or gross negligence or unknown, please explain in detail, attach additional pages if necessary; also, provide supporting documentation and a vicinity sketch:

YES NO **COMPLIANCE WITH CHAPTER 376.3072 F.S., AS REVISED.**

☐ ☑ 1a. Was any contamination reported (discovered) prior to the current discharge?

—

1b. If yes, was an approved method of release detection installed by January 1, 1997?

—

What method? —

☐ ☐ 2. Has proper demonstration of financial responsibility been made in accordance with Rule 62-761.480 or 62-762.480, F.A.C.?

N/A

☑ ☐ 3. Has a Storage Tank Program inspection ever been performed for this facility in accordance with Chapter 62-761, or 62-762, F.A.C.? If yes, give the date of the most recent inspection and supply a copy.

☐ Compliance: — Have all previously identified violations (Mod/Mod) been corrected?

☑ Closure: 7-10-97 ☐ Installation: —

☐ ☑ 4. Has the owner or operator intentionally caused or concealed a discharge or disabled leak detection equipment?

☐ ☑ 5. Has the owner or operator failed to report a suspected release within 1 working day after discovery?

☐ ☑ 6. Has the owner or operator, within 3 days of discovery of an actual new discharge, failed to take steps to test or empty the storage tank system and complete such activity within 7 days?

☐ ☑ 7. Has the owner or operator, after testing or emptying the storage tank system, failed to proceed within 24 hours thereafter to abate the known source of the discharge or to begin free product removal relating to an actual new discharge and failed to complete abatement within 72 hours, although free product recovery may be ongoing.

DEP Facility Number: Landing
Facility Name: Moore Property
Date: 7-30-97

YES NO

INFORMATION MUST BE COMPLETED BY INSPECTOR (SITE SCORING AND RANKING).

☑ ☐ 8. Is there evidence of a contamination problem in accordance with Chapter 376.3071, F.S.? If yes, explain in comment section.

If yes to 8, check those that apply:

☐ A. _____ monitoring well(s)/borehole(s) show(s) >2" free product.

☐ B. _____ monitoring well(s)/borehole(s) show(s) <2" free product or petroleum sheen.

☑ C. 1 monitoring well(s)/borehole(s) are contaminated but contain no free product (vapors only).

☐ D. Soil contamination and/or recent product loss.

Check those that apply:

9. Contamination product type (Chapter 62-771, F.A.C):

☑ A. Light petroleum: (kerosene, gasoline, aviation fuel, etc.)

☐ B. Heavy petroleum: (fuel oil, diesel, etc.)

☐ C. Other: _____

☐ D. Unknown: _____

10. Potable water (Chapter 62-771, F.A.C):

☐ A. Within ½ mile: Large wells >100,000 gpd.

1. Indicate direction: _____
2. Estimate distance: _____

☑ B. Within ¼ mile: small wells <100,000 gpd.

1. Indicate direction: On site
2. Estimate distance: _____

☐ C. Surface water body used as a public water system.

11. Indicate below, proximity to population centers: (restaurants, shopping centers, residences, etc.):

☑ A. <500 feet: residence on site

1. Indicate direction: West
2. Estimate distance: _____

☐ B. >500 feet:

1. Indicate direction: _____
2. Estimate distance: _____

Comments:

Attachments: PCPP Affadavit, DRF (7-17-97)✓, analytical results (7-14-97), closure inspection (7-10-97)✓

Paul J. Parvit
Compliance Inspector

7-30-97
Inspection Date

DEP District: _____ (or) Local Program: Manatee County

Florida Department of Environmental Regulation
Twin Towers Office Bldg. • 2600 Blair Stone Road • Tallahassee, Florida 32399-2400

DER Form # [illegible]
Form Title: Closure Assessment Form
Effective Date: December 10, 1990
DER Application No. _____ (Filled in by DER)

Closure Assessment Form

Owners of storage tank systems that are replacing, removing or closing in place storage tanks shall use this form to demonstrate that a storage system closure assesment was performed in accordance with Rule 17-761 or 17-762, Florida Administrative Code. Eligible Early Detection Incentive (EDI) and Reimbursement Program sites do not have to perform a closure assessment.

Please Print or Type
Complete All Applicable Blanks

1. Date: July 17, 1997
2. DER Facility ID Number: N/A
3. County: Manatee
4. Facility Name: Elaine Hudson Property
5. Facility Owner: Elaine Hudson
6. Facility Address: 108 Upper Manatee River Road, Bradenton Florida 34202
7. Mailing Address: Same
8. Telephone Number: (941) 794-6585
9. Facility Operator: Elaine Hudson
10. Are the Storage Tank(s): **(Circle one or both)** A. Aboveground or (B.) Underground
11. Type of Product(s) Stored: Gasoline
12. Were the Tank(s): **(Circle one)** A. Replaced (B.) Removed C. Closed in Place D. Upgraded (aboveground tanks only)
13. Number of Tanks Closed: 1
14. Age of Tanks: Unknown

Facility Assessment Information

Yes	No	Not Applicable	
☐	☒		1. Is the facility participating in the Florida Petroleum Liability Insurance and Restoration Program (FPLIRP)?
☒	☐		2. Was a Discharge Reporting Form submitted to the Department? If yes, When: July 1997 Where: Manatee County
☒	☐		3. Is the depth to ground water less than 20 feet?
☐	☒	☐	4. Are monitoring wells present around the storage system? If yes, specify type: ☐ Water monitoring ☐ Vapor monitoring
☐	☒	☐	5. Is there free product present in the monitoring wells or within the excavation?
☐	☒	☐	6. Were the petroleum hydrocarbon vapor levels in the soils greater than 500 parts per million for gasoline? Specify sample type: ☐ Vapor Monitoring wells ☒ Soil sample(s)
☐	☐	☒	7. Were the petroleum hydrocarbon vapor levels in the soils greater than 50 parts per million for diesel/kerosene? Specify sample type: ☐ Vapor Monitoring wells ☐ Soil sample(s)
☒	☐	☐	8. Were the analytical laboratory results of the ground water sample(s) greater than the allowable state target levels? (See target levels on reverse side of this form and supply laboratory data sheets)
☐	☐	☒	9. If a used oil storage system, did a visual inspection detect any discolored soil indicating a release?
☒	☐		10. Are any potable wells located within ¼ of a mile radius of the facility?
☐	☒		11. Is there a surface water body within ¼ mile radius of the site? If yes, indicate distance: _____

Northwest District
160 Governmental Center
Pensacola, Florida 32501-5794

Northeast District
7825 Baymeadows Way, Suite B 200
Jacksonville, Florida 32207

Central District
3319 Maguire Blvd. Suite 232
Orlando, Florida 32803-3767
407 894-7555

Southwest District
4520 Oak Fair Blvd.
Tampa, Florida 33610-7347
813 623-5561

South District
2269 Bay St.
Fort Myers, Florida 33901-2898
813-332-6975

Southeast District
1900 S. Congress Ave., Suite A
West Palm Beach, Florida 33406
407 433-2650

DER Form # 17-761.900(1)
Form Title Closure Assessment Form
Effective Date December 10, 1990
DER Application No (Filled in by DER)

12. A detailed drawing or sketch of the facility that includes the storage system location, monitoring wells, buildings, storm drains, sample locations, and dispenser locations must accompany this form.
13. If a facility has a pollutant storage tank system that has both gasoline and kerosene/diesel stored on site, both EPA Method 602 and EPA Method 610 must be performed on the ground water samples obtained.
14. Amount of soils removed and receipt of proper disposal.
15. If yes is answered to any one of questions 5-9, a Discharge Reporting Form 17-761.900(1) indicating a suspected release shall be submitted to the Department within one working day.
16. A copy of this form and any attachments must be submitted to the Department's district office in your area and to the locally administered program office under contract with the Department within 60 days of completion of tank removal or filling a tank with an inert material.

Signature of Owner — Date

Signature of Person Performing Assessment — 7/17/97 Date

Staff Engineer, Environmental Safety Consultants, Inc.
Title of Person Performing Assessment

State Ground Water Target Levels That Affect A Pollutant Storage Tank System Closure Assessment

State ground water target levels are as follows:

1. For gasoline (EPA Method 602):
   a. Benzene 1 ug/l
   b. Total VOA 50 ug/l
      - Benzene
      - Toluene
      - Total Xylenes
      - Ethylbenzene
   c. Methyl Test-Butyl Ether (MTBE) 50 ug/l

2. For kerosene/diesel (EPA Method 610):
   a. Polynuclear Aromatic Hydrocarbons (PAHS) (Best achievable detection limit, 10 ug/l maximum)

Site 6
Mulholland Road Farm

Tank registration form was the only information in the file.

Only assessment work conducted was the closure assessment dated July 17, 1997.

Florida Department of Environmental Regulation
Twin Towers Office Bldg. • 2600 Blair Stone Road • Tallahassee, Florida 32399-2400

Effective Date: December 10, 1990
DER Application No. _____ (Filled in by DER)

Storage Tank Registration Form

DATA ENTERED
SEP 20 1993
BY

RECEIVED D.E.R.
93 SEP 20 PM 3:27
STORAGE TANK REGULATION

Please Print or Type - Review Instructions Before Completing Form

1. DER Facility ID Number: #419300457
2. Facility Type: STORAGE TANK
3. New Registration [X] New Owner Data [ ] Facility Revision [ ] Tank(s) Revision [ ]
4. County and Code of tank(s) location: MANATEE 41 / /

5. Facility Name: MULHOLLAND ROAD FARM
   Tank(s) Address: MULHOLLAND AND FORT HAMER ROADS
   City/State/Zip: PARRISH, FL 34219
   Contact Person: JAMES DANIEL Telephone: (813) 722-0596
6. Financial Responsibility Type: _____

7a. Tank(s) Owner: 4 STAR TOMATO, INC.
   Owner Mailing Address: P.O. BOX 480
   City/State/Zip: ELLENTON, FL 34222
   Contact Person: JAMES DANIEL Telephone: (813) 722-0596

7b. New Owner Signature/Change Date: _____ / / /

8. Location (optional) Latitude: ___°___'___" Longitude: ___°___'___" Section_____ Township_____ Range_____

Complete One Line For Each Tank At This Facility (Use Codes - See Instructions)

Complete 9 - 16 for tanks in use; 9 - 19 for tanks out of use

9	10	11	12	13	14	15	16	17	18	1
1	1000	H	XX/90	A	C/K	A	I	U		

20. _____ Certified Contractor*
DPR# _____ Department of Professional Regulation License N:

*For new tank installation or tank removal

To the best of my knowledge and belief all information submitted on this form is true, accurate and complete.

JAMES F. DANIEL, JR., COMPTROLLER
Print name & title of owner or authorized person

James F. Daniel, Jr.
Signature

9/13/93
Date

Northwest District
160 Governmental Center
Pensacola, Florida 32501-5794
904-436-8300

Northeast District
7825 Baymeadows Way, Suite B 200
Jacksonville, Florida 32207
904-798-4200

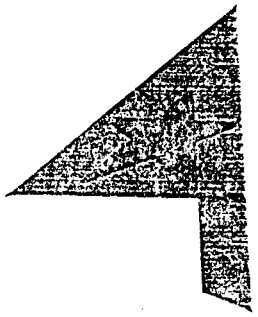
Central District
3319 Maguire Blvd. Suite 232
Orlando, Florida 32803-3767
407-894-7555

Southwest District
4520 Oak Fair Blvd.
Tampa, Florida 33610-7347
813-623-5561

South District
2269 Bay St.
Fort Myers, Florida 33901-2896
813-332-6975

Southeast Distr
1900 S. Congress Ave
West Palm Beach, Flor
407-433-2650

[illegible] President
[illegible]ford, Vice President
[illegible] Sundin, Secretary-Treasurer



4star
Tomato, Inc.
P.O. Box 480
Ellenton, Florida 34222

Local Phone (813) 722-0590
L.D. Phone (813) 729-1271
FAX (813) 722-8932

September 13, 1993

DER/Storage Tank Regulation Section
2600 Blair Stone Road
Tallahassee, FL 32399-2400

Re: New Tank Registrations

Gentlemen:

Enclosed please find four (4) Storage Tank Registration Forms for four (4) of our farms using fuel tanks larger than 550 gallons. Also please find our check for $500.00 which is to be applied for intial registration of the ten (10) tanks at the four (4) farms.

Thank you for your cooperation in this matter. Please contact me if you have any questions.

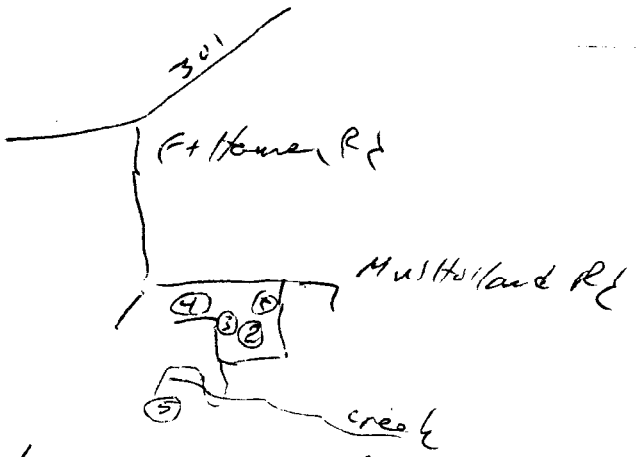
Sincerely,

James F. Daniel, Jr.

James F. Daniel, Jr.
Comptroller

1. Daniel, Comptalk [illegible]

2. Map:



Manatees don't
is supple.

3. 500 gallon tank on skids, located this location more than 10 mos

4. New pad built.

5 for irrigation pump only.

6. Tractor fueling facility

7. Not installed yet -- will be a 550 gallon

8 500 gallon pump tank on pad, covered, for irrigation.

9 Old 550 gallon tank disposed on site

10 500 gallon tank to be installed on existing new pad. for irrigation pump.

11 550 gallon tank disposed on site

Site 7
Fort Hamer Farms

Forms were the only e information in the file.

According to EDMS, no discharges have been reported.

Two tanks at site.

Postcard Notification Form
Underground Storage Tanks
Less Than or Equal to 550 Gallons

DATA ENTERED

MAR 4 1988

LAURIE GINGER
BY

1. Facility previously registered with DER? Yes ☐ No ☑
2. DER Facility Number, if known 418623998
3. Business/Site Name: Ft. Hamer Farms
   Physical Location: Street Rt. 1, Box 216-A - Ft. Hamer Rd.
   City Parrish FL Zip 34219 County Manatee
4. Tank Owner: Name Same
   Mailing Address
   City Parrish State Fla. Zip 34219 Telephone (813) 776-1854
5. Tanks: Number of Tanks Owned: 1

Complete the following chart using the codes listed below for all tanks with capacity of 550 gallons or less, (use additional pages if needed.)

Tank	Size (in gallons)	Contents	Status	Placement
1	500	D	U	AV
2				
3				
4				
5				
6				

If assistance is needed in completing this form, please call:

904/488-0300
or 1-800-422-LEAK

Signature of Tank Owner or Authorized Representative

Date: Dec. 3, 1987

Codes and Instructions for Use in Question 5:

CONTENTS:

A = leaded gasoline
B = unleaded gasoline
C = unleaded gasohol
D = vehicular diesel
F = aviation gas
G = jet fuel
K = kerosene
L = used (waste) oil
M = diesel (boilers & generators)
N = leaded gasohol
O = new oil
V = hazardous substance (write in name)

STATUS:

U = currently in use
I = Temporarily out of use with intent for future use

If permanently out of use indicate whether:
A = abandoned and filled with an inert material
E = abandoned and left empty
F = abandoned with product remaining
B = removed from location

PLACEMENT:

Underground:
UW = underground (10% or more buried)

Aboveground:
(more than 90% is not buried)
AC = incontact with ground (pervious base)
AV = elevated above ground

DER FORM 17-61.000(6) (10/10/86)

Department of Environmental Regulation

Bureau of Waste Management
Twin Towers Office Building
2600 Blair Stone Road
Tallahassee Florida 32399-9978

DATA ENTERED

Department of Environmental Regulation

Stationary Tank Registration/Notification Form

Form 17-1.218(2)

BY AS

FT HAMER FARMS
RT 1 BOX 216-A
PARRISH FL 33564

FACILITY LOCATION
ADDRESS: ~~RT 1 BOX 216-A~~
CITY: ~~PARRISH~~ ~~FL 33564~~

(Make corrections to name and addresses here)
1. Facility/Addressee name _____
Facility address Ft Hamer Rd & Golf Course Rd Parrish, FL
Mailing address _____

Use this form to comply with the following requirements of the Stationary Tank Rule Chapter 17-61, Florida Administrative Code.

1. Each owner or operator shall register the following with the department.
   a. All existing facilities by December 31 1984 (Questions 1-19)
   b. All new storage systems or facilities at least 10 days prior to the start of installation of tanks except in the cases of emergency replacement (Questions 1-19)
   c. A non pollutant containing installation which is to be converted to a facility at least 10 days prior to the placement of pollutants in such a facility (Questions 1-19)
2. Each owner or operator shall notify the department of the following
   a. All storage systems within 10 days of abandonment (Questions 1-12, 16, 20)
   b. Facility sale within 10 days of sale. Notice shall be made by the seller (Answer questions 1-7 and 11. Question 7 about the new owner.)
   c. Retrofitting within 10 days of completion. (Questions 1-19)
3. You may notify the department of a change of operator. (Questions 1-6)

24301
Agency Use Only
D0R510006230

CM

PLEASE PRINT OR TYPE

2 Facility number (DER will provide this number) 418623998 3 Date Nov. 19, 1984
4 Federal Employment Identification (number used to file IRS forms) 59-1667297
5 County Code (see enclosed letter) 41
6 Operator of facility James ~~Smith~~, Dale ~~Rawls~~ & Duane Rawls
Effective date (only for change of operator) _____ Telephone number (813) 776-1458
7 Company/Person owning tanks and piping Ft. Hamer Farms
Address Rt. 1, Box 216-A, Parrish Fla. 33564
Contact person James, Dale, or Duane Rawls Telephone number: ( )
Effective date (only for change of owner) _____
8 How many tanks at this location have an individual storage capacity of greater than 550 gallons and store vehicular fuel made from petroleum?
_____ Underground _____ Aboveground
9 Facility location Latitude ° ' " Longitude ° ' " Section _____ Township _____ Range _____
This information is listed on property deeds, and in the offices of the property appraiser and tax assessor.
10 Sketch the facility on a separate page showing the APPROXIMATE location of buildings, tanks, and dispensers.
A. Draw a line from tank to dispenser to show which are connected by piping.
B. Label each tank as Tank 1, Tank 2, etc.
C. Write the date and your facility number, if known, or name and address exactly as it appears above.
D. Keep a copy of your sketch.

REFER TO TANKS BY THESE LABELS IN ANY COMMUNICATION WITH THE DEPARTMENT
DESCRIBE PIPING BY THE NUMBER OF THE TANK IT IS ATTACHED TO

11 TO THE BEST OF MY KNOWLEDGE AND BELIEF ALL INFORMATION SUBMITTED ON THIS FORM IS TRUE, ACCURATE, AND COMPLETE

James & Vivian Dale & Sandra Duane & Sandra
Name of owner, operator or authorized representative

Sandra Rawls
Signature of owner, operator or authorized representative

KEEP A COPY OF THIS FORM FOR YOUR RECORDS

NOV 26 1984
SOLID WASTE SUBSECTION

MAIL TO: DER Stationary Tank Registration
2600 Blair Stone Road
Room 603
Tallahassee, Florida 32301

DER FORM 17-1.218(2) 9-1-84 (1 pt)

INSTRUCTIONS: Use one row across for each tank counted in question 8. The tank number must agree with the number on the sketch of your facility. A new tank installed where a registered tank was removed should be given the number of the removed tank with an R and a number added. Example. Tank 3R1 is first replacement for tank 3. It is in the same place where tank 3 was. Tank 3R2 is the second replacement for tank 3. Attach extra pages if necessary. Write your facility number, if known, or name and address, exactly as it appears on the front of the form, on all extra pages.

(12) Tank Number	(13) Tank Size in Gallons	(14) Tank Contents (see List 14 below)	(15) Tank Installation Date. Month/Year (put X if unknown)	(16) Underground or Aboveground Tank (write U or A)	(17) Tank Construction Specifics (see List 17U or 17A below)	(18) Integral Piping System Construction Specifics (see List 18 below)	(19) Monitoring System Type (see List 19)	(20) Tank Disposal Method (see List 20)
1	1,000	D	X	A	S	Y	A 1	E

ENTER THE LETTERS WHICH APPLY TO EACH TANK IN THE BOXES ABOVE. WRITE ALL THAT APPLY.

List 14

Tank contents are:
A. leaded gasoline.
B. unleaded gasoline.
C. Alcohol enriched gasoline.
D. diesel fuel.
E. aviation fuel.
Z. other.

List 17U UNDERground Tanks

Underground tank:
A. has overfill protection.
B. is interior lined.
C. is painted/asphalted steel.
D. is of unknown type.
E. is fiberglass type.
F. is fiberglass-clad steel.
G. is sacrificial anode type.
H. is impressed current type.
I. is double walled.
J. is concrete.
K. is in secondary containment.
N. is or has none of the above.

List 17A ABOVEground Tanks

Aboveground tank:
O. has overfill protection.
P. is surrounded by impervious dike.
Q. is surrounded by earth dike.
R. rests on an inpervious base.
S. rests on a earth/gravel base.
T. has interior lined bottom.
U. is cathodically protected.
V. is built of/coated with corrosion resistant materals.
W. is supported above the soil.
Z. is or has none of the above.

List 18

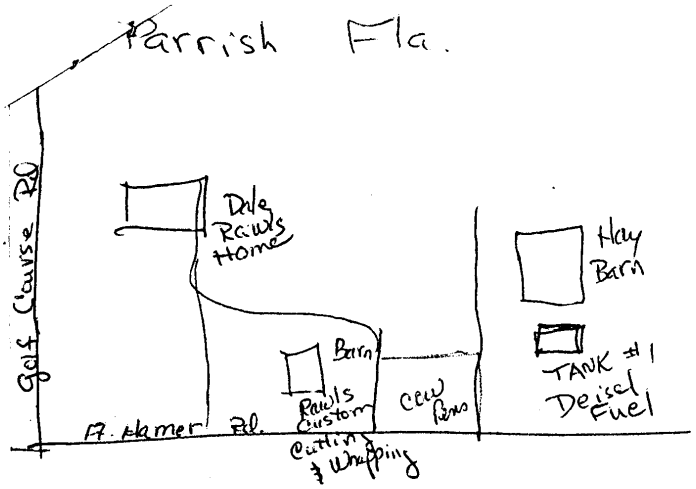
Integral Piping System has:
A. no parts in contact with the soil.
Parts contacting the soil which are:
B. unprotected metal.
C. built of corrosion resistant materials.
D. corroson resistant coated.
E. cathodically protected.
F. double-walled.
G. within a secondary containment.
H. interior lined.
M. none of the above.

List 19

Monitoring system is:
A. automatically sampled well(s).
B. manually sampled well(s).
C. groundwater monitoring plan.
D. SPCC plan.
E. well/detector in secondary containment.
F. in-ground detector.
G. within walls of double-walled tank.
H. continuous in piping.
I. not required.
N. none of the above.

List 20

Tank disposal method.
A. Filling.
B. Removal.
C. Retrofitting.
F. Other.


Parrish Fla.
Golf Course Rd
Dale Rawls Home
Hay Barn
Barn
TANK #1
Diesel Fuel
Rawls Custom
Crew Barn
A. Hamer Rd.
Cutting & Wrapping

DEPARTMENT OF ENVIRONMENTAL REGULATION
POLLUTANT STORAGE TANK SYSTEM
INSPECTION REPORT FORM - COVER PAGE PAGE: 1 OF 1

CILITY ID #: 418623998 COUNTY: MANATEE
CILITY NAME: FT HAMER FARMS
CILITY LOCATION: FT HAMER RD & GOLF COURSE RD, PARRISH 4402 Ft Hamer Rd
CILITY CONTACT: JAMES, DALE & DUANE RAWLS PHONE: (813) ~~776-1458~~ 776 1374
ER: FT HAMER FARMS 4402 Ft Hamer Rd PHONE: (813) 776-~~1458~~ 1374
ER ADDRESS: ~~RT 1 BOX 216-A,~~ PARRISH, FL, ~~33564-0000~~ 34219
ER CONTACT: JAMES ,DALE OR DUANE RAWLS OWNER CHANGE DATE 00/00/00

~~27 33 21~~ ~~82 24 02~~
ITUDE: ~~00-00-00~~ 27 32 39 LONGITUDE: ~~00-00-00~~ 82 25 26 FAC TYPE: NON-RETAIL BUSINESS

#	SIZE	CONTENT	INSTALL DATE	UNDER OR ABOVE	TANK TYPE	INTEGRAL PIPING	MONITORING SYSTEM	TANK STAT
	550	D	XX/XX	A	S	Y	I	U

1st house on left past Golf Course Rd (going S.).

MMENTS:
This tank is located on concrete containment slab ground, no dike. It appears to be in good shape and appx 550 gallons. Many unused tanks laying around property. This is not regulated facility

P1,2 NA

ECTION TYPE (CHOOSE ONE)
ROUTINE
INSTALL
ABANDONED
__ DISCHARGE
__ CLOSURE
__ REINSPECT

SITE INFORMATION (ALL THAT APPLY)
__ NEAR PUB WELL
__ CONTAMINATED
__ COMPLAINT
__ ACID TANKS
__ REPAIRED
__ UPGRADED
✓ UST & AST
__ HAZARD MAT

DISTRICT OR LOCAL PROGRAM: Manatee County - EAC

SPECTOR NAME (PRINT) John Carter CONTACT NAME (PRINT) _____

John Carter 7/25/91
INSPECTOR'S SIGNATURE & DATE

CONTACT'S SIGNATURE & DATE

ORM 761-01-91

Site 8
Herrera Property (419201948)

Four tanks removed in 1992.

The only assessment work conducted was the closure assessment dated June 17, 1992.

Department of Environmental Protection

Jeb Bush
Governor

Twin Towers Office Building
2600 Blair Stone Road
Tallahassee, Florida 32399-2400

David B.Struhs
Secretary

March 6, 2000

Mr. Pete Herrera
PO Box 39
Parrish, FL 34219

Re: Pete Herrera Property
FDEP Facility # **419201948**
Discharge Date: May 12, 1992

Dear Mr. Herrera:

The Florida Department of Environmental Protection is required to direct the cleanup of petroleum contamination sites in priority order and by preapproval of the scope and cost of all work that is funded by the State. The priority order for cleanup is determined pursuant to the Petroleum Cleanup Site Priority Ranking Rule, Chapter 62-771, Florida Administrative Code.

Each site eligible for cleanup funding assistance is scored according to this system. The above site has received a score of **44**. Each eligible site is ranked in relation to all other eligible sites. Ranking and funding are performed by the DEP quarterly in February, May, August, and November of each year. Currently funding is available for all sites with a priority score of 50 or greater. Therefore, funding is not available this year for continued rehabilitation at your site.

If you believe our records are in error or have any questions, please contact me at 850/224-2599.

Sincerely,

Brian King
USTM Operations Manager

BK/as
Enclosure: PCT printout
cc: Southwest District DEP Office
File

Facility Discharge Tasks raYr Codes Media pOll History Reports eXit

Petroleum Contamination Tracking

Co /Facility:	Facility Name and Address:	Manager: Role:
41 /9201948	HERRERA, PETE	Facility Cleanup Status: APPL
	12107 60TH ST E	Highest Discharge Score: 44
	PARRISH Florida	Discharge Record: 1 of 1

Cleanup Info: INACTIVE	Info Source: A-ABANDONED TANK Discharge Score: 44 Lead Agency: BWC -BUREAU OF WASTE Score Effective Date:06-MAR-2000 Clean Required: R-CLEANUP REQUIRE Rank:4177 of 13188on 01-FEB-2000
Discharge Info:	Discharge Date: 12-MAY-1992 Inspection Date: 23-JUN-1992 Combined With: Cleanup Status/Date: ENTD/04-DEC-1992

Eligibility and Application Info:	^	Application Received	Cleanup Program	Cleanup Lead	Determination Status	Determination Letter Sent	Determination Redetermined?
		30-JUN-1992	A	S	E	04-DEC-1992	N
	v						

The line below contains a 'v' to indicate more data. Press the UP or DOWN arrow.

Count: *1 <Replace>

(5) Re-score, give 5 pts for down-gradient

STATE OF FLORIDA
DEPARTMENT OF HEALTH AND REHABILITATIVE SERVICES

STATE UNDERGROUND PETROLEUM ENVIRONMENTAL RESPONSE
S.U.P.E.R. ACT SITE INVESTIGATION

I. Site Identification

Track Number (6-digits, first 2 digits are county #) _____ or

Facility Number (9-digits) 419201948

PLIRP Site_____ ATRP Site ✓ HRS CPHU Initiated _____

(If the site has no DER Early Detection Incentive track number, record the DER Storage Tank Inventory facility number and check appropriate type of investigation- Petroleum Liability and Insurance Restoration Program, Abandoned Tank Restoration Program, or HRS County Public Health Unit)

Business/Site Name Pete Herrera

Business/Site Address 12107 60th St. E.

Business/Site City & County Parrish Manatee

II. Site Vicinity

Number of large public wells within 1/2 mile 0
(Potable wells producing >100,000 Gallons Per Day)

Number of private or small public wells w/in 1/4 mile 8
(Any potable well producing <100,000 GPD)

Usage of small public well(s) 0
(Choices- NA, Food Outlet/Service/Processor, Trailer Park, Apartments, School, Other.)

Number of irrigation water wells w/in 1/2 mile —

Surface water used for potable purposes w/in 1/2 mile N
(Answer Yes or No, include compass direction [eg. NW,SSE] if Yes)

III. Mapping

Initial investigation site map attached Yes ✓ or
(Locates site and all wells sampled with a legend of wells)

Follow-up investigation site map attached Yes_____ No_____
(Locates all wells sampled that have not been previously mapped)

MAPPING MUST BE DONE ON 7.5 MINUTE TOPOGRAPHIC QUADRANGLE MAPS SO THAT COMPUTER MAPPING CAN BE COMPLETED BY HRS ENVIRONMENTAL EPIDEMIOLOGY (HSEE)! IF QUAD POINT RESOLUTION IS POOR, ALSO INCLUDE A CITY STREET MAP.

IV. Water Sampling

Number of potable water wells sampled this series 3
(A series is an initial sampling or quarterly/annual re-sampling of wells surrounding a site)

Date(s) of this sampling series 10-13-93 Series # 1

Pipe permeation sample collection this visit Yes_____ No ✓

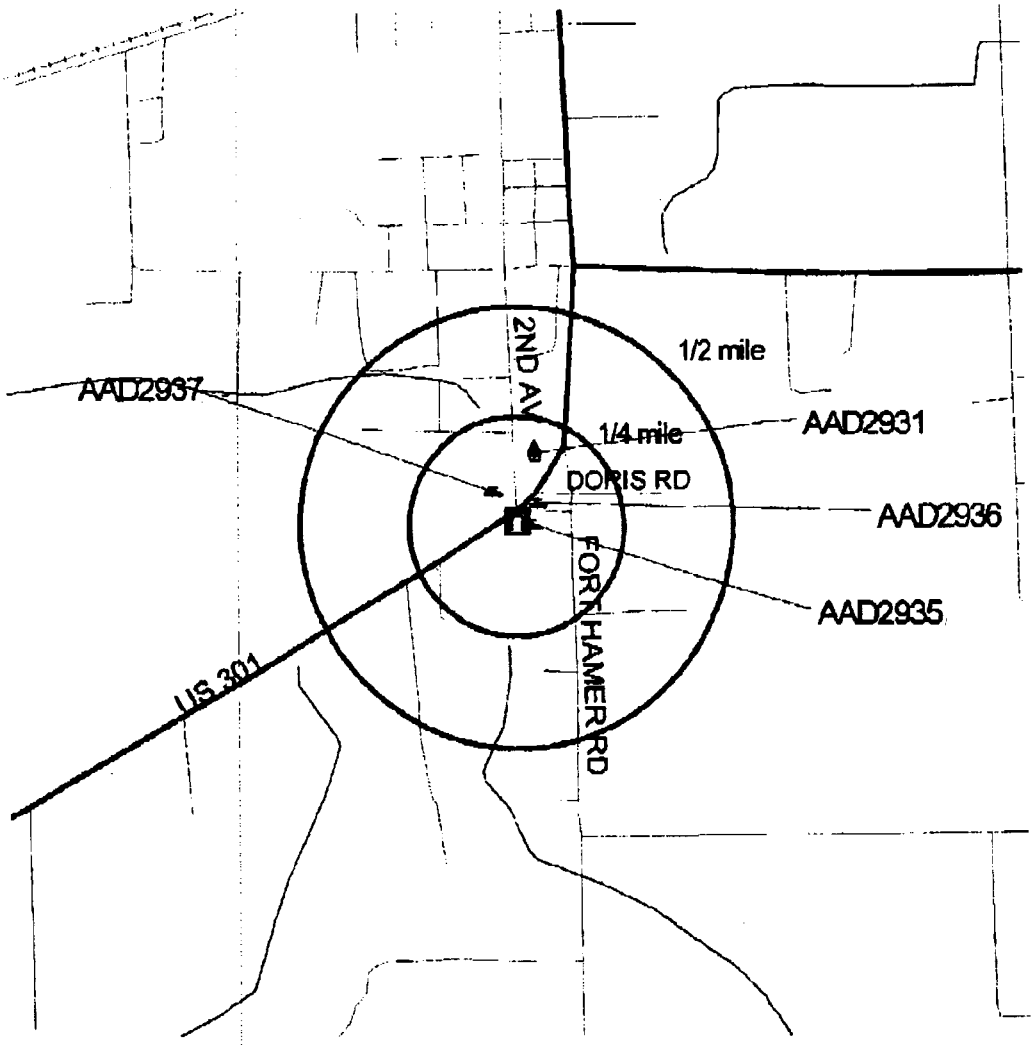
Gary Cochran — Signature of Investigator
Gary Cochran — Printed/Typed Name
9-30-93 — Date(s) of Investigation

HRS-H Form 1027, Feb 92 (Obsoletes all previous versions)
(Stock Number: 5744-000-1027-4)

FORWARD THIS COPY TO HSEE

Manatee County

Facility ID: 41 - 9201948
PETE HERRERA
12107 60TH ST E
Palmetto FL 34221



Wells
- Community Well
- Non Comm Well
- 64E-8 Business Well
- Private Well
- 44 Non Transient
- Irrigation Well

Facilities
- Drycleaning
- Petroleum
- Major road
- Minor road

N

0 0.2 0.4 0.6 Miles

1:24000

Florida Department of Health

Bureau of Environmental Epidemiology

Well Surveillance and GIS Section

Disclaimer:
This product is for reference purposes only and is not to be construed as a legal document. Any reliance on the information contained herein is at the user's own risk. The Florida Department of Health and its agents assume no responsibility for any use of the information contained herein or any loss resulting therefrom.

manatee.apr 02/10/2000

Florida Department of Environmental Regulation

Twin Towers Office Bldg. ● 2600 Blair Stone Road ● Tallahassee, Florida 32399-2400

Lawton Chiles, Governor

Carol M. Browner, Secretary

December 4, 1992

Mr. Peter Herrara
Herrara Property
12107 60th Street East
Parrish, Florida 34219

RE: 12107 60th Street East, Parrish, Florida

DER Facility #419201948

Dear Mr. Herrara:

The Department has concluded its review of the documentation submitted in accordance with Section 376.305(7), Florida Statutes (F.S.), and determined that the contamination related to the storage of petroleum products as defined in Section 376.301(16)(as amended July 1, 1992), F.S., at this site is eligible for state-administered cleanup under the Abandoned Tank Restoration Program.

Section 376.307(5), Florida Statutes, requires the Department of Environmental Regulation (DER) to rank all sites eligible for funding assistance to determine the order in which state conducted cleanup will occur. Each eligible site is ranked against all other eligible sites according to the Site Priority Ranking Rule, Chapter 17-771. Florida Administrative Code. Ranking and funding are performed by the DER quarterly. Whether or not funds are obligated to any particular site depends on the site's rank. A high rank (i.e. 1) indicates a high funding priority.

Persons whose substantial interests are affected by this Order of Determination of Eligibility have a right, pursuant to Section 120.57, F.S., to petition for an administrative determination (hearing). The petition must conform to the requirements of Chapters 17-103 and 28-5, Florida Administrative Code, (F.A.C.), and must be filed (received) with the Department's Office of General Counsel, 2600 Blair Stone Road, Tallahassee, Florida 32399-2400, within twenty-one (21) days of receipt of this notice. Failure to file a petition within twenty-one (21) days constitutes a waiver of any right such persons have to an administrative determination (hearing) pursuant to Section 120.57, F.S.

This Order of Determination of Eligibility is final and effective on the date of receipt of this Order unless a petition is filed in accordance with the preceding paragraph. Upon the timely filing of a petition, this Order will not be effective until further order of the Department.

When the Order is final, any party to the Order has the right to seek judicial review of the Order pursuant to Section 120.68, F.S., by filing of a Notice of Appeal pursuant to Rule 9.110, Florida Rules of Appellate Procedure, with the clerk of the Department in the Office of General Counsel, 2600 Blair Stone Road, Tallahassee, Florida 32399-2400; and by filing a copy of the Notice of Appeal, accompanied by the applicable filing fees, with the appropriate District Court of Appeal. The Notice of Appeal must be filed within the 30 days from the date the Final Order is filed with the clerk of the Department.

The DER Facility Number for this site is **419201948.** Please use this identification on all future correspondence with the Department.

Any questions you may have on the technical aspects of this Order of Determination of Eligibility should be directed to the Petroleum Reimbursement Cleanup Section staff at (904)487-3299. Contact with the above named person does not constitute a petition for administrative determination.

Sincerely,

John M. Ruddell

John M. Ruddell, Director
Division of Waste Management

JMR/awp

cc: Nancy Evans - Southeast Florida District Office

J 6/00.1 --
File

Environmental Safety Consultants, Inc.
Professional Scientists and Engineers in Environmental and Safety Compliance

June 17, 1992

Mr. Pete Herrara
12107 60th Street East
Parrish, Florida 34219

Re: Report of Results, Closure Monitoring Assessment
Herrara's Storage Tank Facility, Parrish, Florida
DER Facility ID No. - Current Application

Dear Mr. Herrara:

As Mr. Jack H. Eubank requested on your behalf, Environmental Safety Consultants, Inc. (ESC) completed a Closure Monitoring Assessment for the previous underground storage tank (UST) facility which was located at 12107 60th Street East, Parrish, Florida. The previous UST facility had four 4,000-gallon diesel fuel tanks which were located west of the building on site. The Assessment's objective was to determine if the soil and groundwater were contaminated, per the requirements of Rule 17-761.800, Florida Administrative Code (F.A.C.), and 40 CFR 280.72.

PROJECT SCOPE

The original workscope, outlined in the Professional Services Agreement of May 11, 1992, included the following:

1) Survey soil at the bottom of the underground storage tank vault with an organic vapor analyzer/flame ionization detector (OVA);

2) Advise Jack H. Eubank's (tank contractor) representatives regarding location and depth of one temporary monitoring well in the tank vault;

3) Collect one groundwater sample from the temporary monitoring well in the tank vault plus one equipment rinsate quality control sample following Quality Assurance Plan and EPA Standard Operating Procedures;

4) Analyze one groundwater sample in a state-certified laboratory for contamination using EPA Methods 602 and 610; and

5) Prepare: (a) two copies of one written Report of Closure Monitoring Assessment Results for soil and groundwater testing in terms of contamination criteria established in

6400 Manatee Avenue West, Suite C., Bradenton, Florida 34209 Tel: (813) 795-2399 • (800) 226-1735 • Fax: (813) 792-1735

Rule 17-770, F.A.C.; (b) the Storage Tank Registration Form; (c) the Closure Assessment Form; (d) the Abandoned Tank Restoration Program (ATRP) Application and forms; and (e) follow-up of the ATRP Application through the Florida Department of Environmental Regulation's (FDER) final review.

ESC has completed all work elements to date, except Item 5(e), which will be done as the application is reviewed by the FDER.

1.0 METHODS

1.1 Quality Control

ESC completed the Closure Monitoring Assessment in accordance with its Comprehensive Quality Assurance Plan (CompQAP, 920028G) approved by the FDER. All sampling procedures correspond to the guidelines documented in the EPA Engineering Support Branch Standard Operating Procedures and Quality Assurance Manual, Region IV, February 1992.

ESC used only decontaminated equipment to collect the soil and groundwater samples. Purging and sampling of the groundwater from the temporary monitoring well were completed by using a stainless steel bailer and a Teflon bailer, respectively, which were decontaminated per the procedure below at ESC's offices prior to the field event. All soil samples at the vault were collected using a stainless steel auger and spoon which were decontaminated using the same procedure at ESC's offices prior to the field event, as well as between samples. ESC's decontamination procedure entailed:

1) Rinse with deionized water;
2) Wash with Alconox detergent and brush;
3) Rinse with deionized water;
4) Rinse with organic-free decontamination water; and
5) Rinse with nanograde isopropyl alcohol.

All water, detergent, and alcohol were in strict accordance with ESC's CompQAP. Prior to usage, the clean equipment was allowed to air dry and stored on clean aluminum foil. Disposable polyethylene gloves were worn by the field technician during sampling.

1.2 Stations

Soil survey station locations were determined via the layout of the tank vault and the location of the UST's within the vault observed during excavation. Three soil stations were established along the centerline of each tank in the vault. The groundwater monitoring

station was located between Stations 5 and 8. This location was selected due to its central location within the tank vault. All station locations are identified in Figure 1.

1.3 Soil Survey Methods

The organic vapor survey was completed by analyzing the vapors in the headspace above the soil sample in a 16-ounce glass jar which was decontaminated at ESC's offices prior to the field event. A separate jar was used for each sample. Prior to analysis, the jar was filled halfway with the soil sample, then tightly sealed. The sample was set aside for a uniform time period to allow the vapors to equilibrate. The headspace was then analyzed using a Heath Organic Vapor Analyzer/Flame Ionization Detector (OVA), Model Porta-Fid II. The OVA instrument was field calibrated initially and as required during the survey. The readout was for a vapor concentration of Total Petroleum Hydrocarbons (TPH) in parts per million (ppm). An additional reading was taken with the carbon filter to quantify methane by screening out the long chain petroleum hydrocarbons. The filtered reading was subtracted from the unfiltered reading yielding the final reported TPH reading.

1.4 Groundwater Monitoring Methods

The temporary monitoring well was installed in the vault after the soil survey was completed. The well was installed by using a 0.010-inch slotted, two-inch diameter PVC pipe which was wrapped with a filter sock. The slotted pipe was connected to a solid two-inch PVC pipe which extended to the ground surface. The well was hand augered to a depth which extended approximately one to three feet into the groundwater.

The well was allowed to equilibrate for a period of time, then the static water level below the ground surface was measured and the well volume was determined. Prior to purging the well, an equipment rinsate quality control sample was collected by pouring organic-free decontamination water into the Teflon bailer to be used for sample collection, and then into a sample container. A field blank quality control sample was also collected at the tank vault area by pouring organic-free decontamination water directly into a sample container. A trip blank quality control sample was transported along with all other samples and handled in the same manner.

A decontaminated stainless steel bailer was used to purge the well until dry. After the well recharged, the samples were collected using a decontaminated Teflon bailer, then transferred into sample containers, preserved, sealed, and iced for analysis at the laboratory. The times of collection, station locations, and other pertinent data were recorded in the Field Log Book. Chain of Custody/Sample Analysis Request forms were completed to accompany

the samples to Enviropact's laboratory located in Clearwater, Florida. The laboratory holds state identification numbers of 84271 and E84060 issued by the Florida Department of Health and Rehabilitative Services (FDHRS). The samples were processed and analyzed by EPA Methods 602 and 610 in strict accordance with ESC's CompQAP, as well as Enviropact's Generic QAP (#87078G).

2.0 RESULTS

2.1 Soil Survey Results

The organic vapor survey completed at the vault on May 12, 1992, yielded the results provided on the attached Closure Monitoring Assessment Field Event Record. The TPH results at Stations 1 through 7 were above the State's 50 ppm excessive contamination limit for the kerosene/mixed product analytical group. Additionally, a fuel odor was noted during the soil survey at Stations 1 through 7, 9, and 11. The vault was backfilled with clean fill having a TPH reading of less than 5 ppm, as determined by an OVA survey.

2.2 Groundwater Monitoring Results

The temporary monitoring well was installed on May 12, 1992, between Stations 5 and 8 in the tank vault. The well extended to a total depth of 10.2 feet, approximately 1.00 feet into the groundwater.

The groundwater monitoring event was completed on May 12, 1992. The static water level was at 9.17 feet and the well volume was calculated to be 0.62 liters. The well was purged until dry. The quality control and groundwater samples were collected and managed in accordance with the methods previously identified.

The analytical results for the groundwater sample, provided on page 1 of the attached laboratory report, indicate the presence of diesel fuel constituents. The combined concentration of naphthalene compounds was 9,930 micrograms per liter (ug/l), which exceeded the state target limit of 100 ug/l for total naphthalenes, provided in Rule 17-770, F.A.C. The combined total of polynuclear aromatic hydrocarbons was 28,290 ug/l, which exceeded the state target limit of 10 ug/l for these compounds. The combined total of volatile organic aromatic (VOA) compounds was 452 ug/l which exceeded the state target limit of 50 ug/l. Based on these results, the groundwater is considered to be excessively contaminated according to the state's criteria. Analysis of the quality control rinsate sample was not necessary since the integrity of the data was not an issue in determining whether or not contamination was present.

3.0 CONCLUSIONS

Based on the results herein, ESC concludes that there is excessive soil and groundwater contamination, at the former UST facility owned by Mr. Herrara. Additional investigation in the form of a Contamination Assessment will most likely be required before closure may be considered complete. In the event that the site is not approved for state contracted cleanup under the ATRP, this Contamination Assessment must be completed within six (6) months. Considering the expense and the fact that the Assessment can take several months to complete, alternate plans should be made in case the site is not approved for state contracted cleanup.

4.0 STATE FORMS

The following tank related forms have been completed as required and need to be signed and submitted as directed.

1. Closure Assessment Form - sign and date, then submit to Mr. Paul Panik's office at the address shown below.

2. Storage Tank Registration Form - sign and date, then submit to the Florida Department of Environmental Regulation (FDER) Storage Tanks Program at the address in Tallahassee, shown on the form.

3. Discharge Reporting Form - sign, date and submit within 24 hours to Mr. Paul Panik's office at the address shown below.

4. Abandoned Tank Restoration Program (ATRP) Application Form - sign and date then submit to the FDER at the address shown on the back of the form. It should be mailed separately from the Storage Tank Registration Form and should have a copy of the signed Discharge Reporting Form attached to it.

5. Abandoned Tank Restoration Affidavit Form - sign and date in the presence of a Notary Public and submit with Item 4.

6. Small Business/Corporation Not For Profit Certification - sign and date in the presence of a Notary Public and submit with Item 4.

Keep a copy of each form for your records and send a copy of the Storage Tank Registration Form along with the originals of the Closure Assessment Form and Discharge Reporting Form to Mr. Paul Panik at the Manatee County Environmental Action Commission, P.O. Box 1000, Bradenton, Florida 34206-1000. A copy of this report has been forwarded to Mr. Panik.

Sincerely,

ENVIRONMENTAL SAFETY CONSULTANTS, INC.

Christopher G. Stirrat
Staff Engineer

CGS:klm

Enclosures

xc: Paul Panik, Manatee County Environmental Action Commission

Project No. 0097-0032

CLOSURE MONITORING ASSESSMENT FIELD EVENT RECORD

Client MAP Peter Herrera, Jack H. Eubank Project No. 0097-0032

Site Name Herrera Property Site Location 12107 60th St. E. Parrish

DER Facility ID No. None

Date 5/12/92 Time (hrs.) 0900 Technician MAP

GROUNDWATER

Well Number #1 Note: All depths corrected to ground level.

(Casing Depth, in.) - (Static Water Level, in.) = Water Depth, in.

(122 , in.) - (110 , in.) = 12 , in.

(Water Depth, in.) π (Casing Radius, in.)² = Well Volume, in.³

(12 , in.) π (1 , in.)² = 37.7 , in.³

(Well Volume, in.³) (0.01639 l/in.³) = Well Volume, l

(37.7 , in.³) (0.01639 l/in.³) = 0.62 , l

Purging Equipment S. steel bailer Purged Dry? yes (if not, complete table)

Time, hrs.	Volume	Temp., °C	pH	Cond., umhos/cm	Notes
	1				
	2				
	3				
	4				
	5				

Sampling Equipment teflon bailer Trip Blank No. 97324

Sample No. 9752 @ 1735 Rinsate No. 97322 @ 1700 Field Blank No. 97323

Parameters/Methods EPA 602 + 610

SOIL

Sampling Equipment Stainless Steel auger

Station No.	Time, hrs.	Total Petroleum Hydrocarbon Vapor, ppm			Odors/Staining
		Unfiltered	Filtered	Final	
1	1058	1,100	9	1,091	Fuel odor
2	1100	300	0	300	Fuel odor
3	1102	190	55	135	Fuel odor
4	1210	330	29	301	Fuel odor
5	1212	2,800	1,700	1,100	Fuel odor
6	1214	200	50	150	Fuel odor
7	1452	160	85	75	Fuel odor
8	1454	80	80	0	unidentified odor

Environmental Safety Consultants, Inc.

CLOSURE MONITORING ASSESSMENT FIELD EVENT RECORD

Client Jack H. Evans Project No. 097-0032

Site Name Herrera Property Site Location Parish Florida

DER Facility ID No. None

Date 5/12/92 Time (hrs.) 0900 Technician MAP

GROUNDWATER

Well Number _____ Note: All depths corrected to ground level.

(Casing Depth, in.) - (Static Water Level, in.) = Water Depth, in.

(_____, in.) - (_____, in.) = _____, in.

(Water Depth, in.) x (Casing Radius, in.)^2 = Well Volume, in.^{3}

(_____, in.) x (_____, in.)^2 = _____, in.^{3}

(Well Volume, in.^{3}) (0.01639 l/in.^{3}) = Well Volume, l

(_____, in.^{3}) (0.01639 l/in.^{3}) = _____, l

Purging Equipment _____ Purged Dry? _____ (if not, complete table)

Time, hrs.	Volume	Temp., °C	pH	Cond., umhos/cm	Notes
	1				
	2				
	3				
	4				
	5				

Sampling Equipment _____ Trip Blank No. _____

Sample No. _____ Rinsate No. _____ Field Blank No. _____

Parameters/Methods _____

SOIL

Sampling Equipment _____

Station No.	Time, hrs.	Total Petroleum Hydrocarbon Vapor, ppm			Odors/Staining
		Unfiltered	Filtered	Final	
9	1456	30	0	30	Fuel odor
10	1558	2	0	2	No odor
11	1600	31	27	4	Fuel odor
12	1602	2	0	2	No odor

Environmental Safety Consultants, Inc.

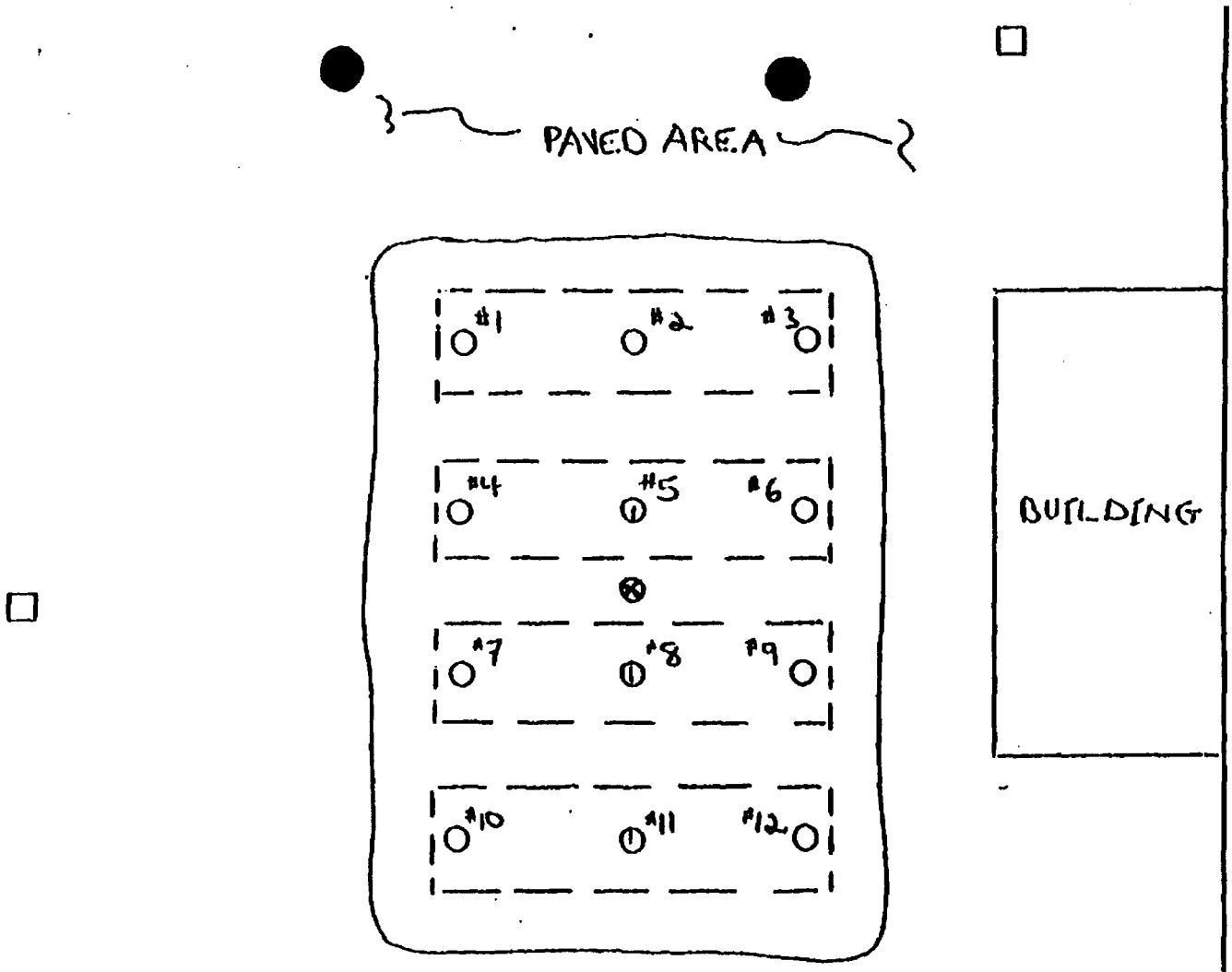


Figure 1. Soil Stations and Temporary Well Location at Peter Herrara's Former Underground Storage Tank Facility on U.S. Highway 301 in Parrish, Florida.

Environmental Safety Consultants, Inc.

Florida Department of Environmental Regulation
Twin Towers Office Bldg. • 2600 Blair Stone Road • Tallahassee, Florida 32399-2400

DER Form # 17-761.900(1)
Form Title Discharge Reporting Form
Effective Date December 10, 1990
Obsolescence Date (Filled in by DER)

RECEIVED D.E.R.

Discharge Reporting Form

92 AUG 17 AM 10:48 RECEIVED

STORAGE JUN 22 1992
REGULATION
E.A.C.

Use this form to notify the Department of Environmental Regulation of:

1. Results of tank tightness testing that exceed allowable tolerances within ten days of receipt of test result.
2. Petroleum discharges exceeding 25 gallons on pervious surfaces as described in Section 17-761.460 F.A.C. within one working day of discovery.
3. Hazardous substance (CERCLA regulated), discharges exceeding applicable reportable quantities established in 17-761.460(2) F.A.C., within one working day of the discovery.
4. Within one working day of discovery of suspected releases confirmed by: (a) released regulated substances or pollutants discovered in the surrounding area, (b) unusual and unexplained storage system operating conditions, (c) monitoring results from a leak detection method or from a tank closure assessment that indicate a release may have occurred, or (d) manual tank gauging results for tanks of 550 gallons or less, exceeding ten gallons per weekly test or five gallons averaged over four consecutive weekly tests.

Mail to the DER District Office in your area listed on the reverse side of this form

PLEASE PRINT OR TYPE
Complete all applicable blanks

1. DER Facility ID Number: 8419201948 2. Tank Number: 1,2,3,4 3. Date: 5/12/92
4. Facility Name: Pete Herrara
   Facility Owner or Operator: Pete Herrara
   Facility Address: 12107 60th Street East, Parrish, Florida
   Telephone Number: (813) 776-1615 County: Manatee
   Mailing Address: 12107 60th Street East, Parrish, Florida 34219
5. Date of receipt of test results or discovery: 5/12/92 month/day/year
6. Method of initial discovery. (circle one **only**)
   A. Liquid detector (automatic or manual)
   B. Vapor detector (automatic or manual)
   C. Tightness test (underground tanks only).
   D. Emptying and Inspection.
   E. Inventory control.
   F. Vapor or visible signs of a discharge in the vicinity.
   (G) Closure: Lab Results (explain)
   H. Other:
7. Estimated number of gallons discharged: Unknown
8. What part of storage system has leaked? (circle all that apply) A. Dispenser B. Pipe C. Fitting D. Tank (E) Unknown
9. Type of regulated substance discharged. (circle one)
   A. leaded gasoline
   B. unleaded gasoline
   C. gasohol
   (D) vehicular diesel
   F. aviation gas
   G. jet fuel
   L. used/waste oil
   M. diesel
   O. new/lube oil
   V. hazardous substance includes pesticides, ammonia, chlorine and derivatives (write in name or Chemical Abstract Service CAS number)
   Z. other (write in name)
10. Cause of leak. (circle all that apply)
    (A) Unknown
    B. Split
    C. Loose connection
    D. Corrosion
    E. Puncture
    F. Installation failure
    G. Spill
    H. Overfill
    I. Other (specify)
11. Type of financial responsibility. (circle one)
    A. Third party insurance provided by the state insurance contractor
    B. Self-insurance pursuant to Chapter 17-769.500 F.A.C.
    C. Not applicable
    (D) None
12. **To the best of my knowledge and belief all information submitted on this form is true, accurate, and complete.**

Peter Herrara
Printed Name of Owner, Operator or Authorized Representative

Pete Herrera
Signature of Owner, Operator or Authorized Representative

Northwest District
160 Governmental Center
Pensacola, Florida 32501-5794
904 436 8300

Northeast District
7825 Baymeadows Way, Suite B 200
Jacksonville, Florida 32207
904 798 4200

Central District
3319 Maguire Blvd Suite 232
Orlando, Florida 32803-3767
407 894 7555

Southwest District
4520 Oak Fair Blvd
Tampa, Florida 33610-7347
813 623-5561

South District
2269 Bay St
Fort Myers, Florida 33901-2866
813-332-6975

Southeast District
1900 S Congress Ave., Suite A
West Palm Beach, Florida 33406
407 433 2650

Florida Department of Environmental Regulation
Twin Towers Office Bldg. ● 2600 Blair Stone Road ● Tallahassee, Florida 32399-2400

DER Form # 17-761.900(6)
Form Title Closure Assessment Form
Effective Date December 10, 1990
DER Application No. (Filled in by DER)

RECEIVED
D.E.R.
92 AUG 17 AM 10:48
STORAGE TANK
REGULATION

Closure Assessment Form

Owners of storage tank systems that are replacing, removing or closing in place storage tanks shall use this form to document that a storage system closure assesment was performed in accordance with Rule 17-761 or 17-762, Florida Administrative Code. Eligible Early Detection Incentive (EDI) and Reimbursement Program sites do not have to perform a closure assessment.

Please Print or Type
Complete All Applicable Blanks

1. Date: May 12, 1992
2. DER Facility ID Number: _____ 3. County: Manatee
4. Facility Name: Pete Herrara
5. Facility Owner: Pete Herrara
6. Facility Address: 12107 60th Street East, Parrish, Florida
7. Mailing Address: 12107 60th Street East, Parrish, Florida 34219
8. Telephone Number: (813) 776-1615 9. Facility Operator: Pete Herrara
10. Are the Storage Tank(s): **(Circle one or both)** A. Aboveground or (B.) Underground
11. Type of Product(s) Stored: Vehicular Diesel Fuel
12. Were the Tank(s): **(Circle one)** A. Replaced (B.) Removed C. Closed in Place D. Upgraded (aboveground tanks only)
13. Number of Tanks Closed: Four 14. Age of Tanks: Unknown

Facility Assessment Information

Yes	No	Not Applicable	
[ ]	[X]		1. Is the facility participating in the Florida Petroleum Liability Insurance and Restoration Program (FPLIRP)?
[X]	[ ]		2. Was a Discharge Reporting Form submitted to the Department? If yes, When: 6/92 Where: Manatee County
[X]	[ ]		3. Is the depth to ground water less than 20 feet?
[ ]	[X]	[ ]	4. Are monitoring wells present around the storage system? If yes, specify type: [ ] Water monitoring [ ] Vapor monitoring
[X]	[ ]	[ ]	5. Is there free product present in the monitoring wells or within the excavation?
[ ]	[ ]	[X]	6. Were the petroleum hydrocarbon vapor levels in the soils greater than 500 parts per million for gasoline? Specify sample type: [ ] Vapor Monitoring wells [ ] Soil sample(s)
[X]	[ ]	[ ]	7. Were the petroleum hydrocarbon vapor levels in the soils greater than 50 parts per million for diesel/kerosene? Specify sample type: [ ] Vapor Monitoring wells [X] Soil sample(s)
[X]	[ ]	[ ]	8. Were the analytical laboratory results of the ground water sample(s) greater than the allowable state target levels? (See target levels on reverse side of this form and supply laboratory data sheets)
[ ]	[ ]	[X]	9. If a used oil storage system, did a visual inspection detect any discolored soil indicating a release?
[X]	[ ]		10. Are any potable wells located within ¼ of a mile radius of the facility?
[ ]	[X]		11. Is there a surface water body within ¼ mile radius of the site? If yes, indicate distance: _____

Northwest District 160 Governmental Center Pensacola, Florida 32501-5794 904-436-8300
Northeast District 7825 Baymeadows Way, Suite B 200 Jacksonville, Florida 32207 904-798-4200
Central District 3319 Maguire Blvd Suite 232 Orlando, Florida 32803-3767 407-894-7555
Southwest District 4520 Oak Fair Blvd Tampa, Florida 33610-7347 813-623-5561
South District 2295 Bay St. Fort Myers, Florida 33901-2896 813-332-6975
Southeast District 1900 S. Congress Ave., Suite A West Palm Beach, Florida 33406 407-433-2650

DER Form # 17-761.900(6)
Form Title Closure Assessment Form
Effective Date December 10, 1990
DER Application No. _____ (Filled in by DER)

12. A detailed drawing or sketch of the facility that includes the storage system location, monitoring wells, buildings, storm drains, sample locations, and dispenser locations must accompany this form.
13. If a facility has a pollutant storage tank system that has both gasoline and kerosene/diesel stored on site, both EPA Method 602 and EPA Method 610 must be performed on the ground water samples obtained.
14. Amount of soils removed and receipt of proper disposal.
15. If yes is answered to any one of questions 5-9, a Discharge Reporting Form 17-761.900(1) indicating a suspected release shall be submitted to the Department within one working day.
16. A copy of this form and any attachments must be submitted to the Department's district office in your area and to the locally administered program office under contract with the Department within 60 days of completion of tank removal or filling a tank with an inert material.

Pete Herrera
Signature of Owner

6-19-92
Date

Christopher J. Stuart
Signature of Person Performing Assessment

6/12/92
Date

Staff Engineer, Environmental Safety Consultants, Inc.
Title of Person Performing Assessment

State Ground Water Target Levels That Affect A Pollutant Storage Tank System Closure Assessment

State ground water target levels are as follows:

1. For gasoline (EPA Method 602):
   a. Benzene 1 ug/l
   b. Total VOA 50 ug/l
      - Benzene
      - Toluene
      - Total Xylenes
      - Ethylbenzene
   c. Methyl Test-Butyl Ether (MTBE) 50 ug/l

2. For kerosene/diesel (EPA Method 610):
   a. Polynuclear Aromatic Hydrocarbons (PAHS) (Best achievable detection limit, 10 ug/l maximum)

Via Complaint

State of Florida
Department of Environmental Regulation

Pollutant Storage Tank System Inspection Report Form

Facility: ID. #: — County: Manatee
Facility Name: Pete Herrera
Facility Location: 12107 60th St. E.
Facility Contact: Pete Herrera Phone: 776-1615
Owner: Pete Herrera Phone: 776-1615
Owner Address: 12107 60th St. E
Owner Contact: Pete Herrera Owner Change Date:
Latitude: 27 : 34 : 04 Longitude: 82 : 25 : 38 Fac. Type:

Tank #	Size	Contents	Date Installed	Under or Above	Tank Type	Integral Piping	Monitoring System	Tank Status
1								
2								
3								
4								

Comments:
- Tanks not registered
- Tanks not properly closed
- County issued tank abandonment letter

Inspection Type: (Choose One)
- [x] Routine
- [ ] Discharge (DRF)
- [ ] Installation
- [ ] Closure
- [ ] Abandoned
- [ ] Reinspection

Site Information: (All that apply)
- [ ] Near Public Wells
- [ ] Repaired
- [ ] Contaminated
- [ ] Upgraded
- [x] Complaint
- [ ] Both UST & AST
- [ ] Acid Tanks
- [ ] Hazardous Materials

DER District or Local Program: Manatee County-EAC

John Carter
Inspector Name (Print): 4/30/92

Contact Name (Print):

John Carter 5/4/92 JCC
Inspector's Signature & Date

Contact's Signature & Date

DER Form 761-01-91

Florida Department of Environmental Regulation
Twin Towers Office Bldg. ● 2600 Blair Stone Road ● Tallahassee, Florida 32399-2400

DER Form # 17-788 90823
Form Title: Abandoned Tank Restoration Program (ATRP) Application Form
Effective Date: February 20, 1991
DER Application No. _____ (Filled in by DER)

92 JUN 30 PM 5:44
STORAGE TANK REGULATION

Abandoned Tank Restoration Program (ATRP) Application Form

Application Deadline March 31, 1991

ES

Use this form to apply for restoration and assistance eligibility of a site contaminated by petroleum products from abandoned storage systems.

Please Print or Type
Put "X" where answer is unknown.

1. Business/Site Name: Peter Herrara
   Business/Site Operator: Peter Herrara
   Business/Site Owner: Peter Herrara Property Owner: Peter Herrara
   Business/Site Address: 12107 60th Street East, Parrish, Florida
   Applicant's Telephone No.: Business (813)776-1615 Home _____ County: Manatee
   Applicant's Mailing Address: 12107 60th Street East, Parrish, Florida 34219
2. Date of contamination discovery (Attach Copy of Discharge Reporting Form) 5/12/92
3. Date the petroleum storage system was taken out of service Approximately 1983
4. Has the petroleum storage system been properly closed (removed or filled with sand or concrete) in accordance with DER rules? Yes
5. Is the site registered with DER? If so, DER Facility Number Current application in process
   If not, fill in the information listed below for **each** tank at the site. 4/19201948

Tank(s)	Size(s) gallons	Underground (U) or Aboveground (A)	Tank Contents When in Service	Date of Last Use
1	4,000	U	Diesel	XX/83
2	4,000	U	Diesel	XX/83
3	4,000	U	Diesel	XX/83
4	4,000	U	Diesel	XX/83

6. To the best of my knowledge and belief, all information submitted on this form is true, accurate and complete.

Pete Herrara, Owner — 6-19-92
Signature of Person Completing Form/Title — Date

Peter Herrara
Name Typed or Printed

Northwest District
160 Governmental Center
Pensacola, Florida 32501-5794
904 436-8300

Northeast District
7825 Baymeadows Way, Suite B200
Jacksonville, Florida 32256-7577
904 448-4300

Central District
3319 Maguire Blvd Suite 232
Orlando, Florida 32803-3767
407 894 7555

Southwest District
4520 Oak Fair Blvd
Tampa, Florida 33610 7347
813 623 5561

South District
2295 Bay St
Fort Myers, Florida 33901 2856
813 332 6975

Southeast District
1900 S Congress Ave Suite A
West Palm Beach Florida 33406
407 433 2650

Site 9
United Agri Products

Forms were the only information in the file.

According the EDMS, no discharges have been reported.

Florida Department of Environmental Regulation
Twin Towers Office Bldg. • 2600 Blair Stone Road • Tallahassee, Florida 32399-2400

DER Form # 17-761.900(2)
Form Title Storage Tank Registration Form
Effective Date December 10, 1990
DER Application No. ______ (Filled in by DER)

DATA ENTERED
JUL 21 1994
BY ART

Storage Tank Registration Form

Please Print or Type - Review Instructions Before Completing Form

(M)

1. DER Facility ID Number: 9401161
2. Facility Type: AGRICULTURAL
3. New Registration [✓] New Owner Data [ ] Facility Revision [ ] Tank(s) Revision [ ]
4. County and Code of tank(s) location: MANATEE COUNTY /

5. Facility Name: UNITED AGRI PRODUCTS FLORIDA INC - PARRISH BRANCH
Tank(s) Address: 12120 US HWY 301
City/State/Zip: PARRISH, FLORIDA 34219
Contact Person: GLEN PURVIS Telephone: (813) 776-3238
6. Financial Responsibility Type: C

7a. Tank(s) Owner: UNITED AGRI PRODUCTS FLORIDA INC.
Owner Mailing Address: 3632 QUEEN PALM DRIVE SUITE 300 308
City/State/Zip: TAMPA, FL 33619
Contact Person: STEVE STONER Telephone: (813) 621-4433

7b. New Owner Signature/Change Date: ______ / __/__/__

8. Location (optional) Latitude: __°__'__" Longitude: __°__'__" Section____ Township____ Range____

Complete One Line For Each Tank At This Facility (Use Codes - See Instructions)

Complete 9 - 16 for tanks in use; 9 - 19 for tanks out of use

9	10	11	12	13	14	15	16	17	18	19
1	4500	Q	6/94	A	EK	ANIL	X			

RECEIVED DEPT. OF ENV. PROTECTION JUL 14 PM 12:12 FINANCE & ACCOUNTING

20. ______ Certified Contractor* DPR# ______ Department of Professional Regulation License Number*

*For new tank installation or tank removal

To the best of my knowledge and belief all information submitted on this form is true, accurate and complete.

GLEN PURVIS WHSE MGR — Print name & title of owner or authorized person
[signature] — Signature
6/13/94 — Date

Florida Department of Environmental Regulation

Twin Towers Office Bldg. • 2600 Blair Stone Road • Tallahassee, Florida 32399-2400

DER Form # 17-761.900(2)
Form Title Storage Tank Registration Form
Effective Date December 10, 1990
DER Application No. (If Known by DER)

DATA ENTERED

SEP 20 1994

Storage Tank Registration Form

Please Print or Type - Review Instructions Before Completing Form

1. DER Facility ID Number: 569400161
2. Facility Type:
3. New Registration [ ] New Owner Data [ ] Facility Revision [ ] Tank(s) Revision [X]
4. County and Code of tank(s) location: /

5. Facility Name:
   Tank(s) Address:
   City/State/Zip:
   Contact Person: Telephone: ( )
6. Financial Responsibility Type:

7a. Tank(s) Owner:
   Owner Mailing Address:
   City/State/Zip:
   Contact Person: Telephone: ( )

7b. New Owner Signature/Change Date: / / /

8. Location (optional) Latitude: ° ' " Longitude: ° ' " Section Township Range

Complete One Line For Each Tank At This Facility (Use Codes - See Instructions)

Complete 9 - 16 for tanks in use; 9 - 19 for tanks out of use

9	10	11	12	13	14	15	16	17	18	19
1	4000	A	XX/XX	U	C	B	Y	B		8-94
2	4000	A	XX/XX	U	C	B	Y	B		8-94
3	4000	A	XX/XX	U	C	B	Y	B		8-94
4	750	B	XX/XX	U	C	B	Y	B		8-94
5	750	B	XX/XX	U	C	B	Y	B		8-94
6	500	K	XX/XX	U	C	B	Y	B		8-94
7	500	K	XX/XX	U	C	B	Y	B		8-94

20. ATLANTIC PETROLEUM-DAVID DEISON Certified Contractor* DPR# PSSSC # 050637 Department of Professional Regulation License Number

*For new tank installation or tank removal

To the best of my knowledge and belief all information submitted on this form is true, accurate and complete.

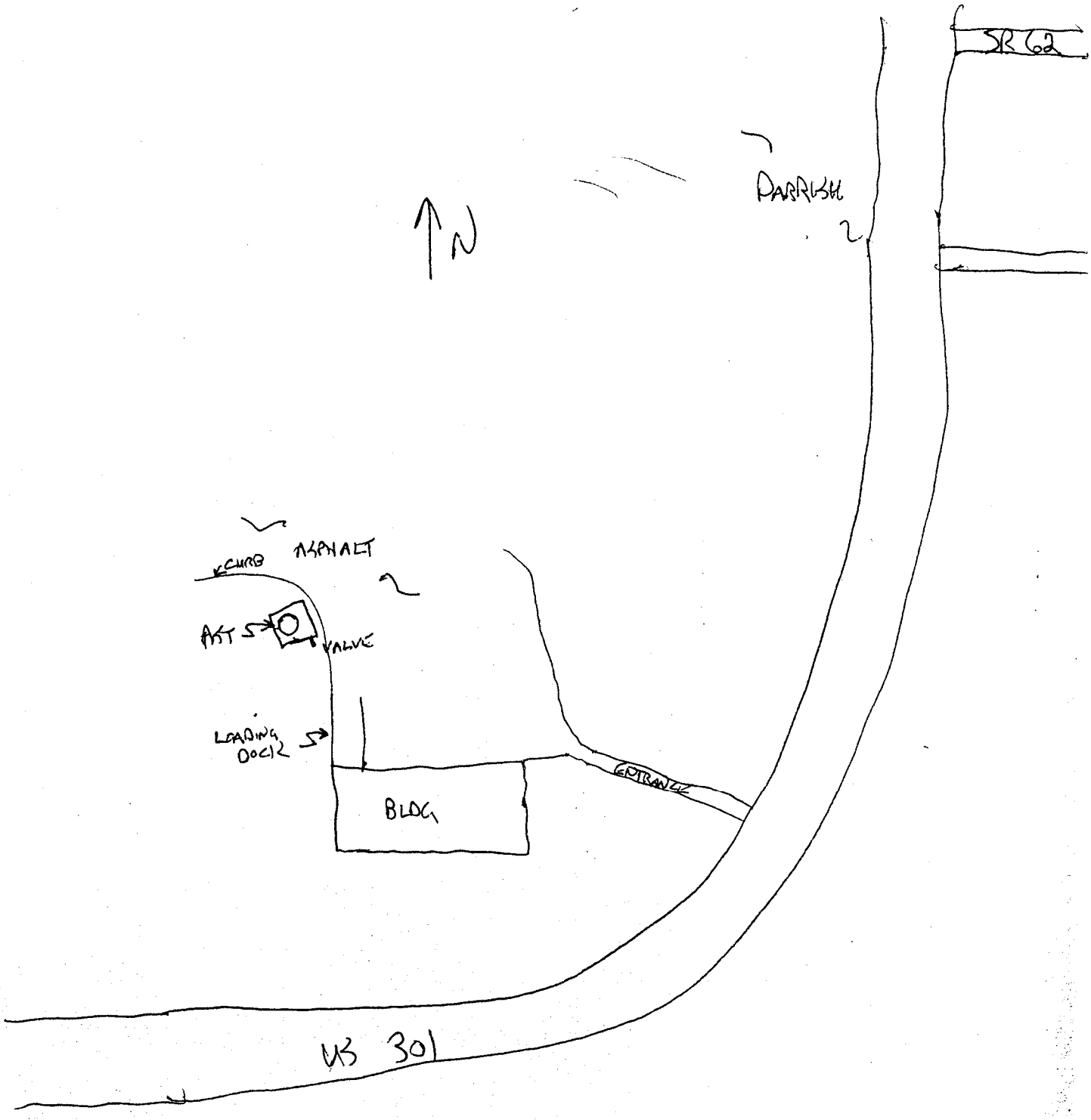
FIRS/ST LUCIE COUNTY PUBLIC HEALTH UNIT
STORAGE TANK PROGRAM
714 AVE "C" P.O. BOX 580
FT PIERCE, FL 34954

Print name & title of owner or authorized person

Signature

8-22-94
Date

Northwest District 160 Governmental Center Pensacola, Florida 32501 5794 904 436 8300
Northeast District 7825 Baymeadows Way, Suite B 200 Jacksonville, Florida 32207 904 798 4200
Central District 1319 Maguire Blvd. Suite 232 Orlando, Florida 32803 3767 407 894-7555
Southwest District 4520 Oak Fair Blvd Tampa, Florida 33610 7347 813 623 5561
South District 2269 Bay St. Fort Myers, Florida 33901 2896 813 332 6975
Southeast District 1900 S Congress Ave., Suite A West Palm Beach, Florida 33406 407 433-2650


SR 62
PARKING
N
ASPHALT
CURB
ANT
VALVE
LOADING DOCK
ENTRANCE
BLDG
US 301

LAT: 28° 34' 17"

Site 10
Manatee County Parrish Fuel Site

Forms were the only information in the file

According to EDMS, no discharges have been reported.

DATA ENTERED APR 07 99 DEP

APR 21 1999

Florida Department of Environmental Protection

Twin Towers Office Bldg. • 2600 Blair Stone Road • Tallahassee, Florida 32399-2400

DEP Form # 62-761.900(2)
Form Title Storage Tank Registration Form
Effective Date: July 13, 1998
DEP Application No. _____ (Filled in by DEP)

Storage Tank Facility Registration Form

Submit a completed form for the facility when registration of storage tanks or compression vessels is required by Chapter 376.303, Florida Statutes

Please review *Registration Instructions* before completing the form.

Please check one: [ ] Initial Registration [ ] New Owner [X] New Tanks
[ ] Facility Info Update/Correction [ ] Owner Info Update/Correction [ ] Tank Info Update/Correction

Southwest District Tampa

A. FACILITY INFORMATION

County: Manatee County DEP Facility ID: Pending 9801702

Facility Name: MANATEE COUNTY PARRISH FUEL SITE
Facility Address: 12132 U.S. Hwy 301 North City: Parrish Zip:
Facility Contact: Jack Hamilton Business Phone: (941) 749-7106
Facility Type(s): C- Non Retail, I NAICS Code: _____ Financial Responsibility: C

24 Hour Emergency Contact: Tim Richert Beeper 941, 856-0148 Emergency Phone: ( ) _____

B. RESPONSIBLE PERSON INFORMATION - Identify individual(s) or Business(es) responsible for storage tank management, fueling operations, and/or cleanup activities at the facility location named above. Provide additional information in an attachment if necessary.

Name: Manatee Co. BCC	Facility - Responsible Person Relation Type:	Effective Date
Mail address: 2908 12th Street Court East	[√] Facility Account Owner (pays fees)	03/99
City, ST, Zip: Bradenton FL 34208	Facility Account Owner information must be provided when the facility contains active (in-use) storage tanks on site.	
Contact: Jack Hamilton		
Telephone: 941-758-4501	STCM Account Number (if known)	
Identify other appropriate facility relationships for this party: [ ] Facility Owner/Operator [ ] Property Owner [ ] Storage Tank Owner		

Name:	Other owner, relationship type(s)	Effective Date
Mail address:	[ ] Facility Owner/Operator	
City, ST, Zip:	[ ] Property Owner	
Contact:	[ ] Storage Tank Owner	
Telephone:	[ ] Other:	

C. TANK/VESSEL INFORMATION - Complete one row for each storage tank or compression vessel system located at this facility.

Tank ID	T/V	A/U	Capacity	Installed	Content	Status/Effective Date	Construction	Piping	Monitoring
1	T	A	15,000	03/99	D	A 03/99	C,NOMPIL	BDAIK	QF6V4

Certified Contractor (peforming tank installation or removal): G.B. Robbins DBPR License No.: FL-PC-C 056799

Registration Certification: To the best of my knowledge and belief, all information submitted on this form is true, accurate, and complete.

TIM RICHERT FUEL MGR. _____ 4-19-99
Printed Name & Title Signature Date

DEP 62-761.900(2)

Northwest District
160 Governmental Center Blvd.
Pensacola, FL 32501
850-595-8360

Northeast District
7825 Baymeadows Way,
Suite B200
Jacksonville, FL 32256
904-448-4300

Central District
3319 Maguire Blvd.,
Suite 232
Orlando, FL 32803
407-894-7555

Southwest District
3804 Coconut Palm Drive
Tampa, FL 33619
813-744-6100

Southeast District
400 North Congress Ave.,
W Palm Beach, FL 33416
561-681-6600

South District
2295 Victoria Ave.,
Suite 364
Fort Myers, FL 33901
941-332-6975

Marathon Branch Office
2796 Overseas Hwy.,
Suite 221
Marathon, FL 33050
305-289-2310

Information Systems

Results for
City =
Name =
Facility id = **9801702**

Facility ID#: 9801702
Facility Name: MANATEE CNTY PARRISH FUEL SITE
Address: 12132 US HWY 301 N
City: PARRISH State: FL Zip:
County: MANATEE District: SWD Facility Regi
Fac Code/Type: I/ County Government Fac Stat: OPEN Last
Owner Name: MANATEE CNTY BD OF COMMISSIONERS

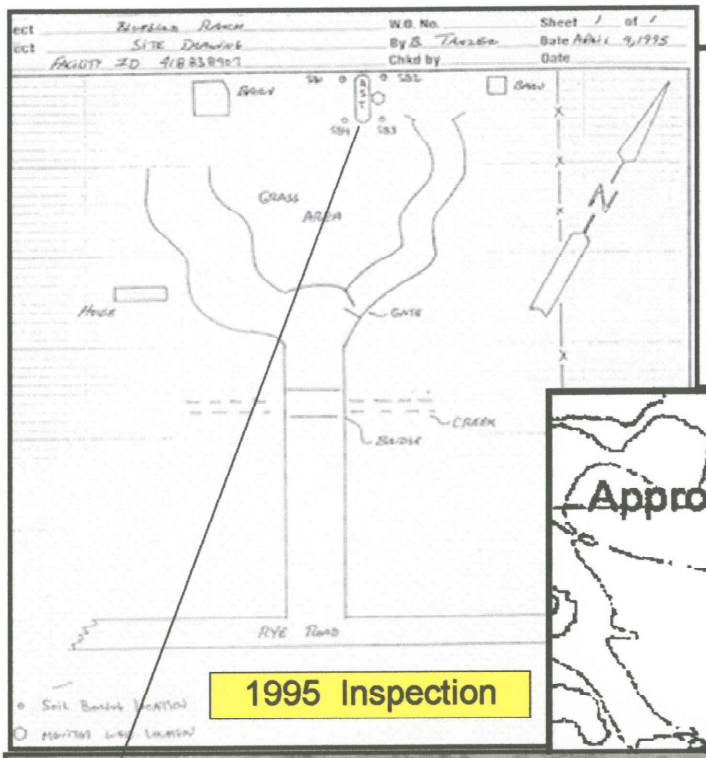
Tank #	Contents	Tank Size	Status	Installed	Place
1	Vehicular Diesel	15,000	In Service	03/1999	ABOVE

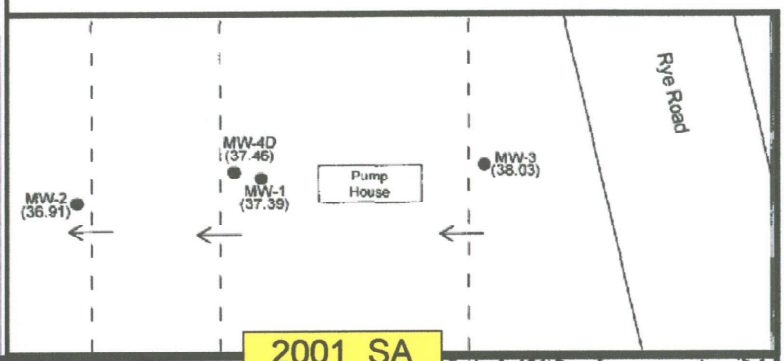
Return to Storage Tank Form
Return to Home Page

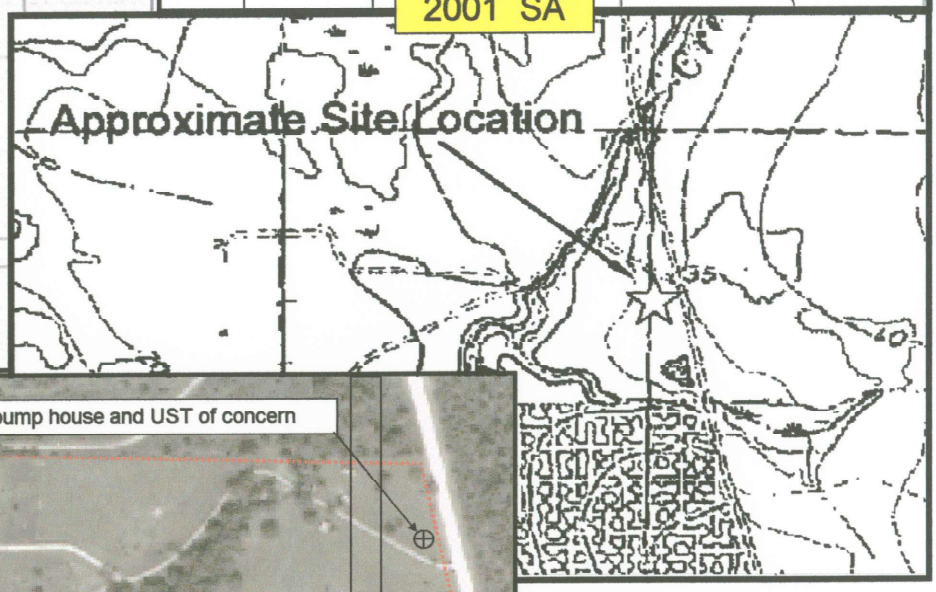
Contact Donna Gorton,
gorton_d@dep.state.fl.us

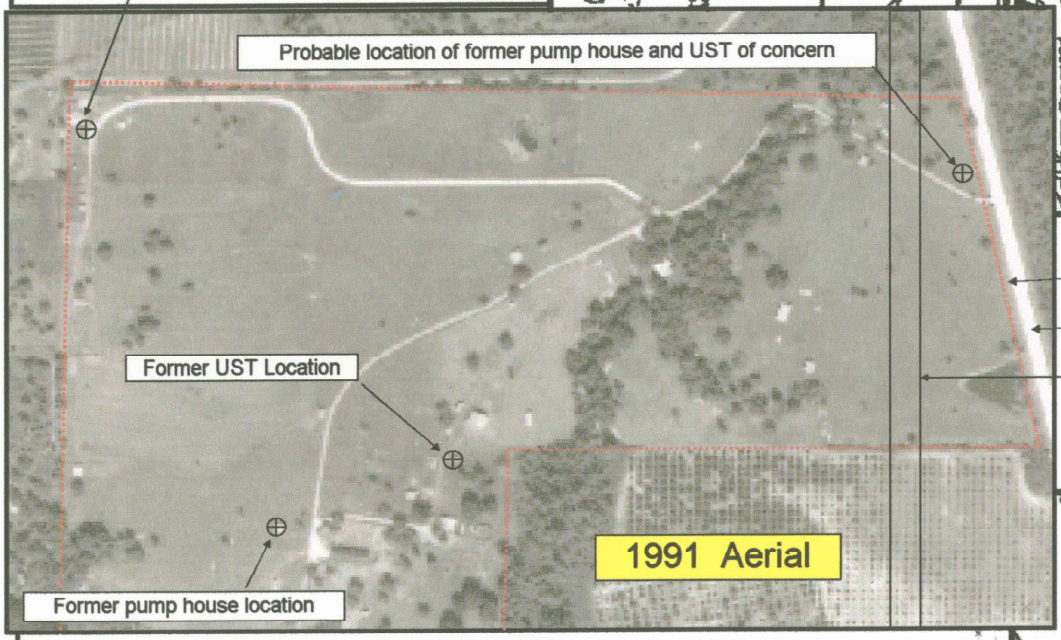
Rye Road Alternative

Site 5

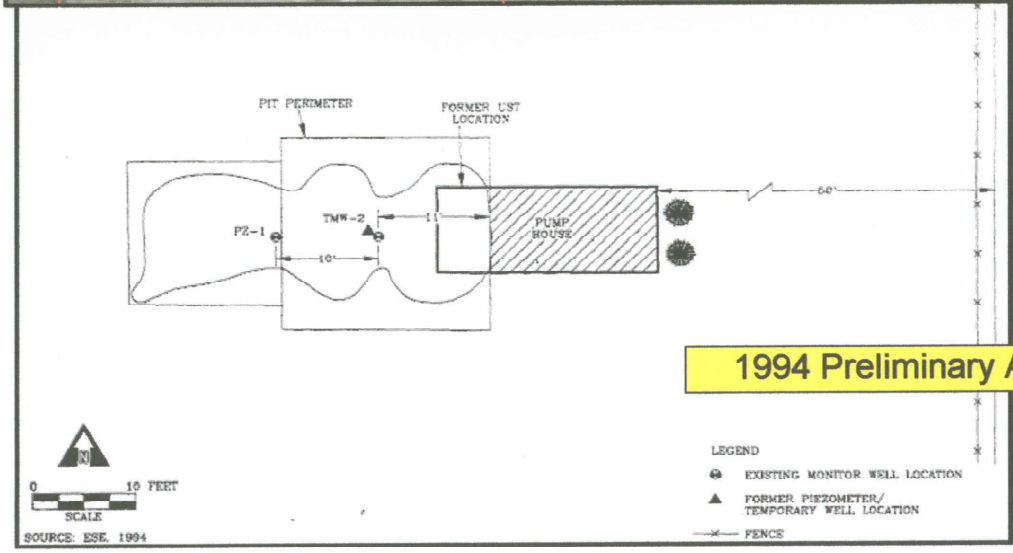


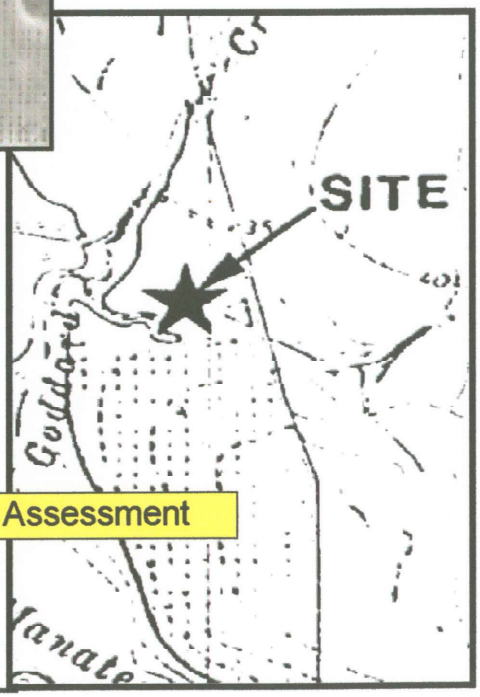




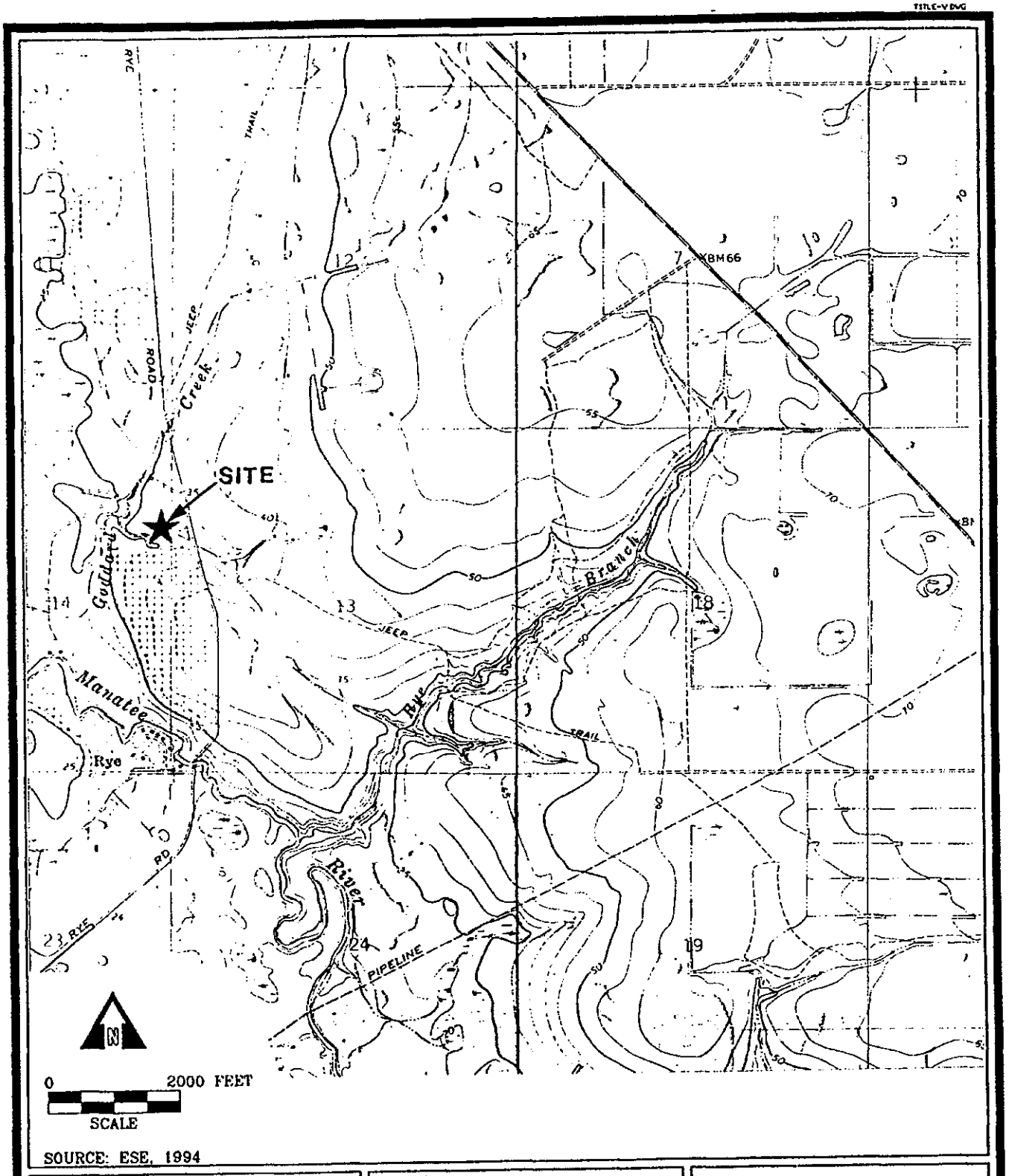


Site 5 Limits
Rye Road
Proposed corridor





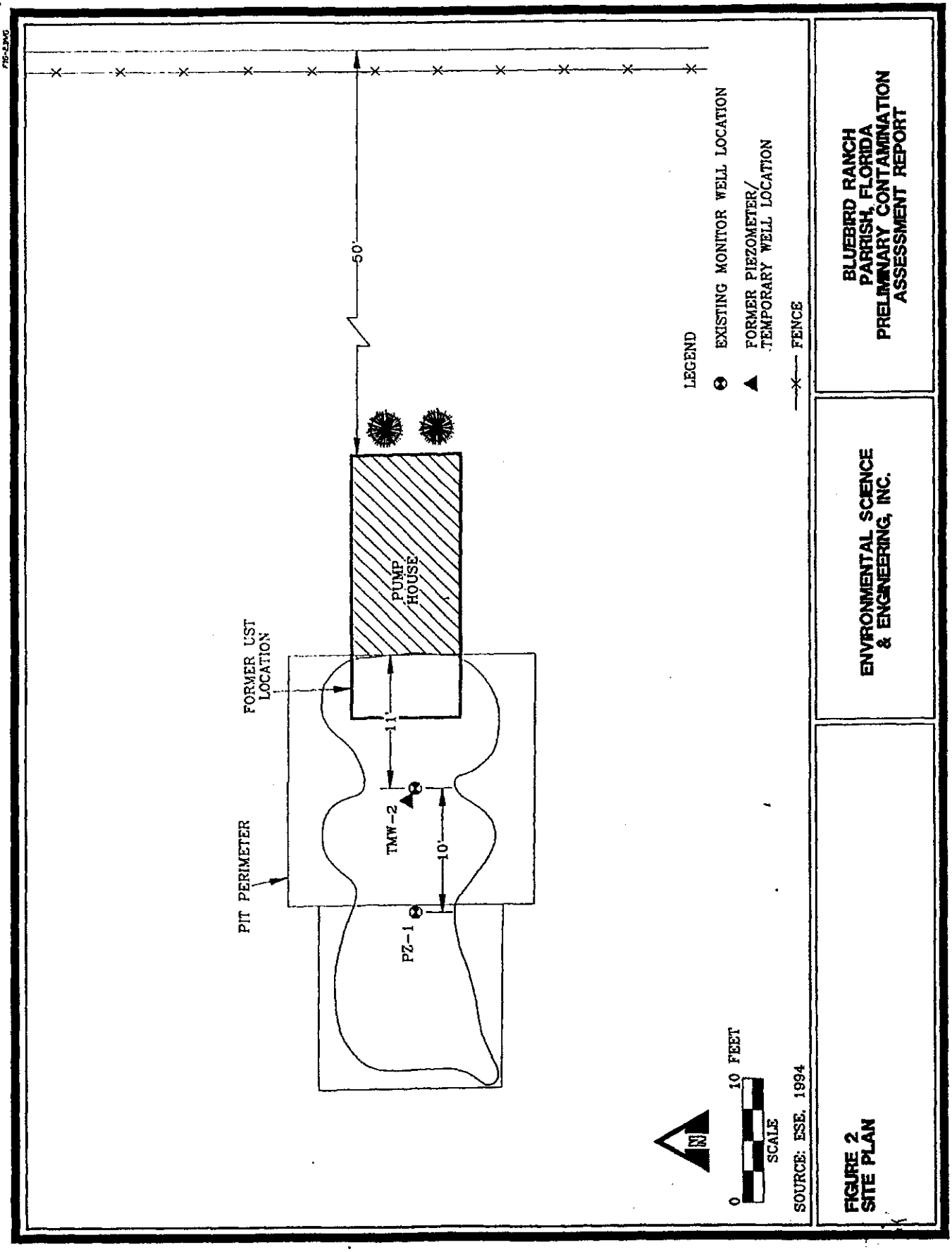
Site 5



SOURCE: ESE, 1994

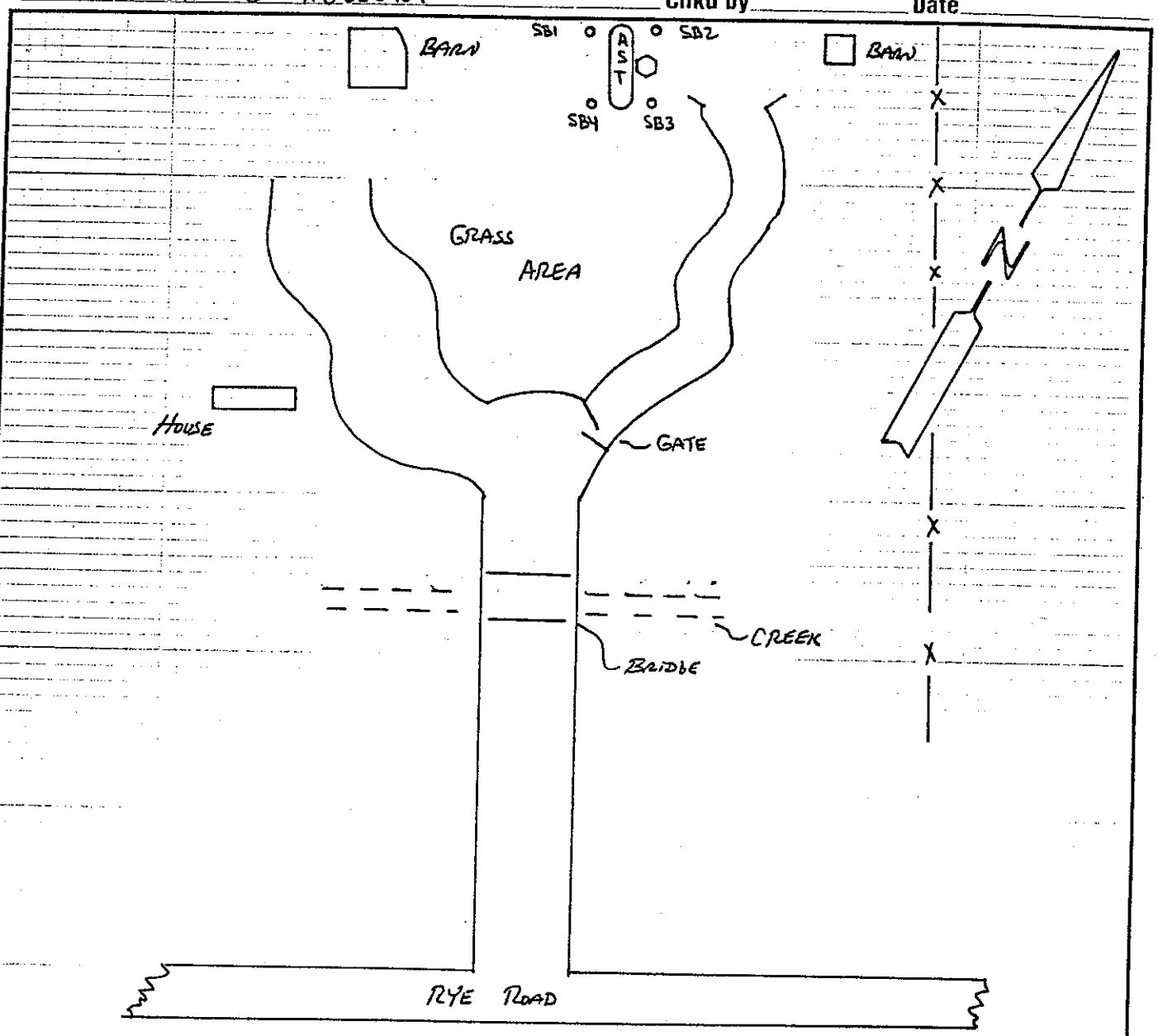
FIGURE 1 **SITE VICINITY MAP**	**ENVIRONMENTAL SCIENCE & ENGINEERING, INC.**	**BLUEBIRD RANCH** **PARRISH, FLORIDA** **PRELIMINARY CONTAMINATION ASSESSMENT REPORT.**

Site 5


BLUEBIRD RANCH
PARRISH, FLORIDA
PRELIMINARY CONTAMINATION
ASSESSMENT REPORT
ENVIRONMENTAL SCIENCE
& ENGINEERING, INC.
FIGURE 2
SITE PLAN
SOURCE: ESE, 1994
LEGEND
EXISTING MONITOR WELL LOCATION
FORMER PIEZOMETER/
TEMPORARY WELL LOCATION
FENCE
SCALE
0
10 FEET
N
50'
PUMP
HOUSE
FORMER UST
LOCATION
PIT PERIMETER
TMW-2
PZ-1
11'
10'

Site 5

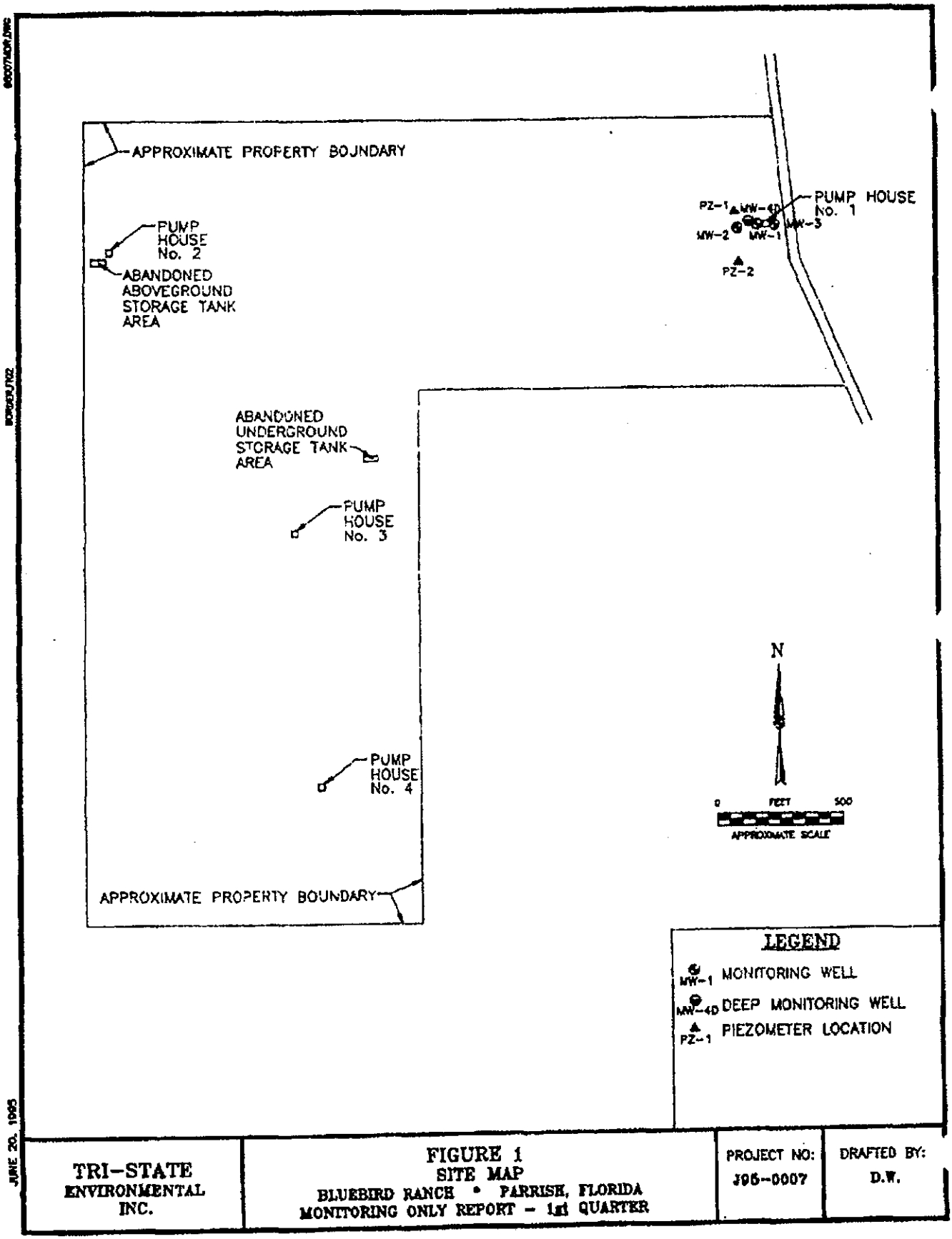
Project BLUEBIRD RANCH W.O. No. _____ Sheet 1 of 1
Subject SITE DRAWING By B. TANZER Date APRIL 9, 1995
FACILITY ID 41883890? Chkd by _____ Date _____



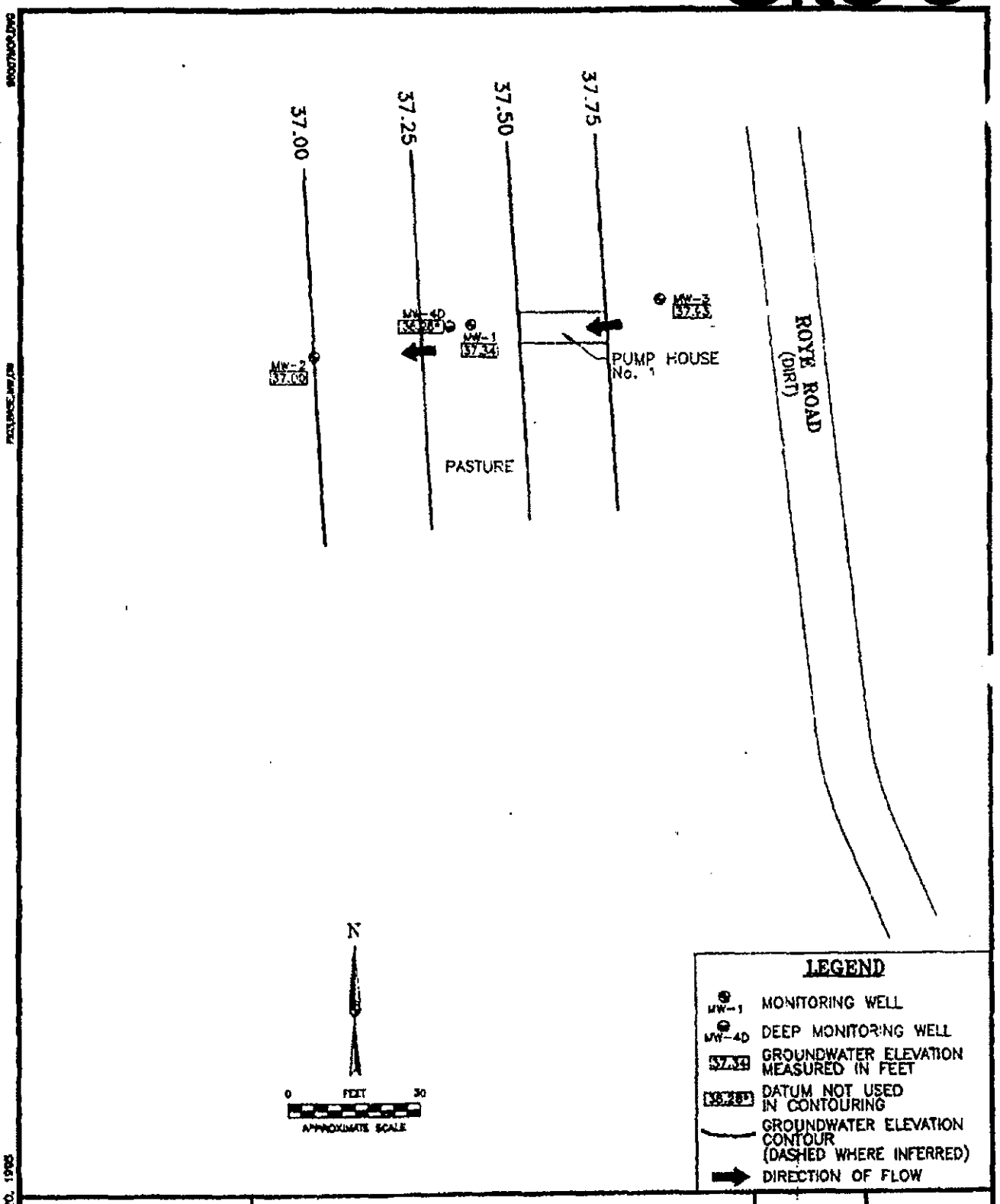
o Soil Boring location

⬡ Monitor well location

Site 5


APPROXIMATE PROPERTY BOUNDARY
PUMP HOUSE No. 2
ABANDONED ABOVEGROUND STORAGE TANK AREA
PZ-1
MW-4D
MW-2
MW-1
MW-3
PZ-2
PUMP HOUSE No. 1
ABANDONED UNDERGROUND STORAGE TANK AREA
PUMP HOUSE No. 3
PUMP HOUSE No. 4
APPROXIMATE PROPERTY BOUNDARY
N
0
FEET
500
APPROXIMATE SCALE
LEGEND
MW-1 MONITORING WELL
MW-4D DEEP MONITORING WELL
PZ-1 PIEZOMETER LOCATION
TRI-STATE ENVIRONMENTAL INC.
FIGURE 1
SITE MAP
BLUEBIRD RANCH • PARRISH, FLORIDA
MONITORING ONLY REPORT - 1st QUARTER
PROJECT NO: J95-0007
DRAFTED BY: D.W.
JUNE 20, 1995

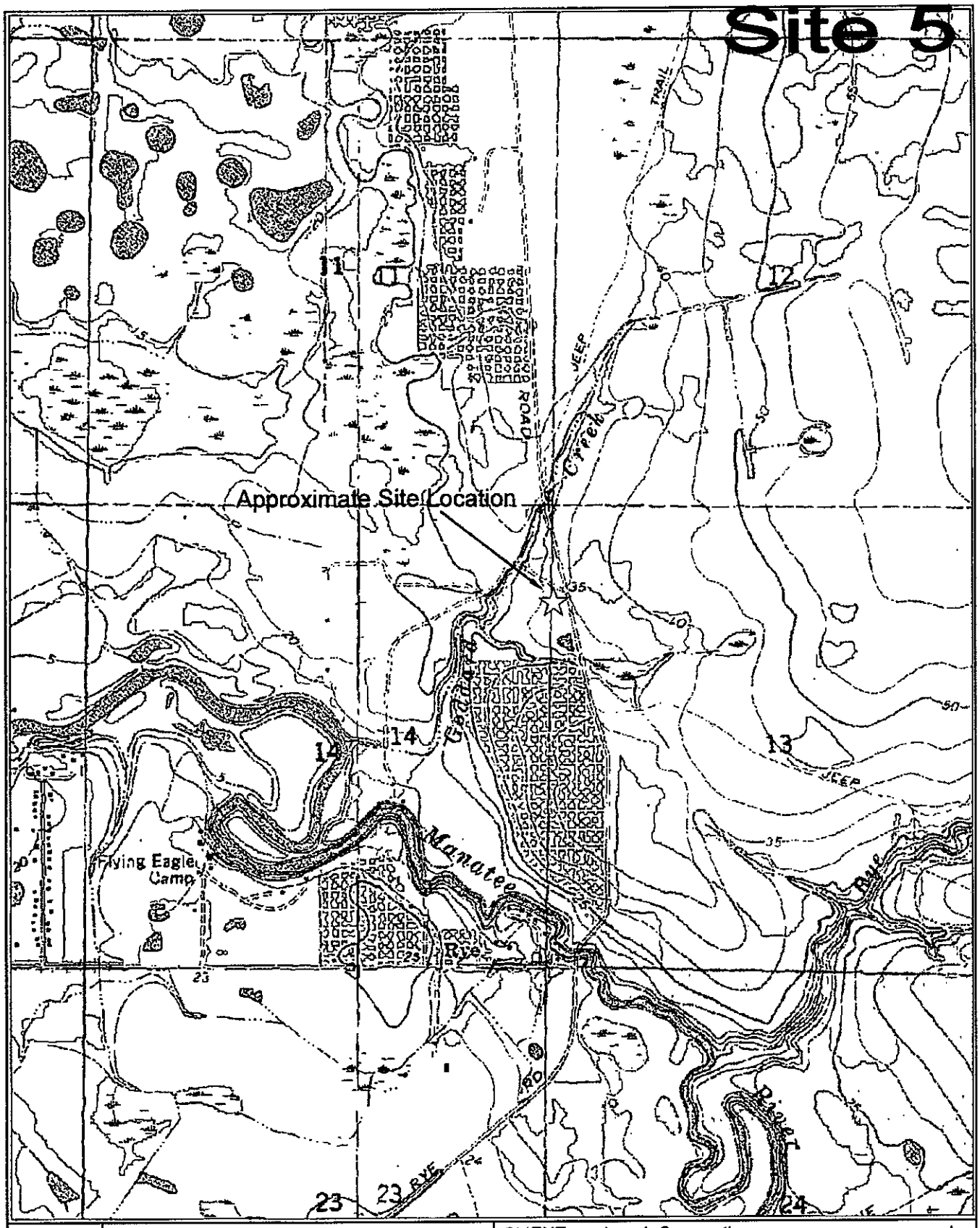
Site 5



TRI-STATE ENVIRONMENTAL INC.	FIGURE 2 GROUNDWATER ELEVATION CONTOUR MAP (6/22/95) BLUEBIRD RANCH • PARRISH, FLORIDA MONITORING ONLY REPORT – 1st QUARTER	PROJECT NO: J95-0007	DRAFTED BY: D.W.

JUNE 20, 1995

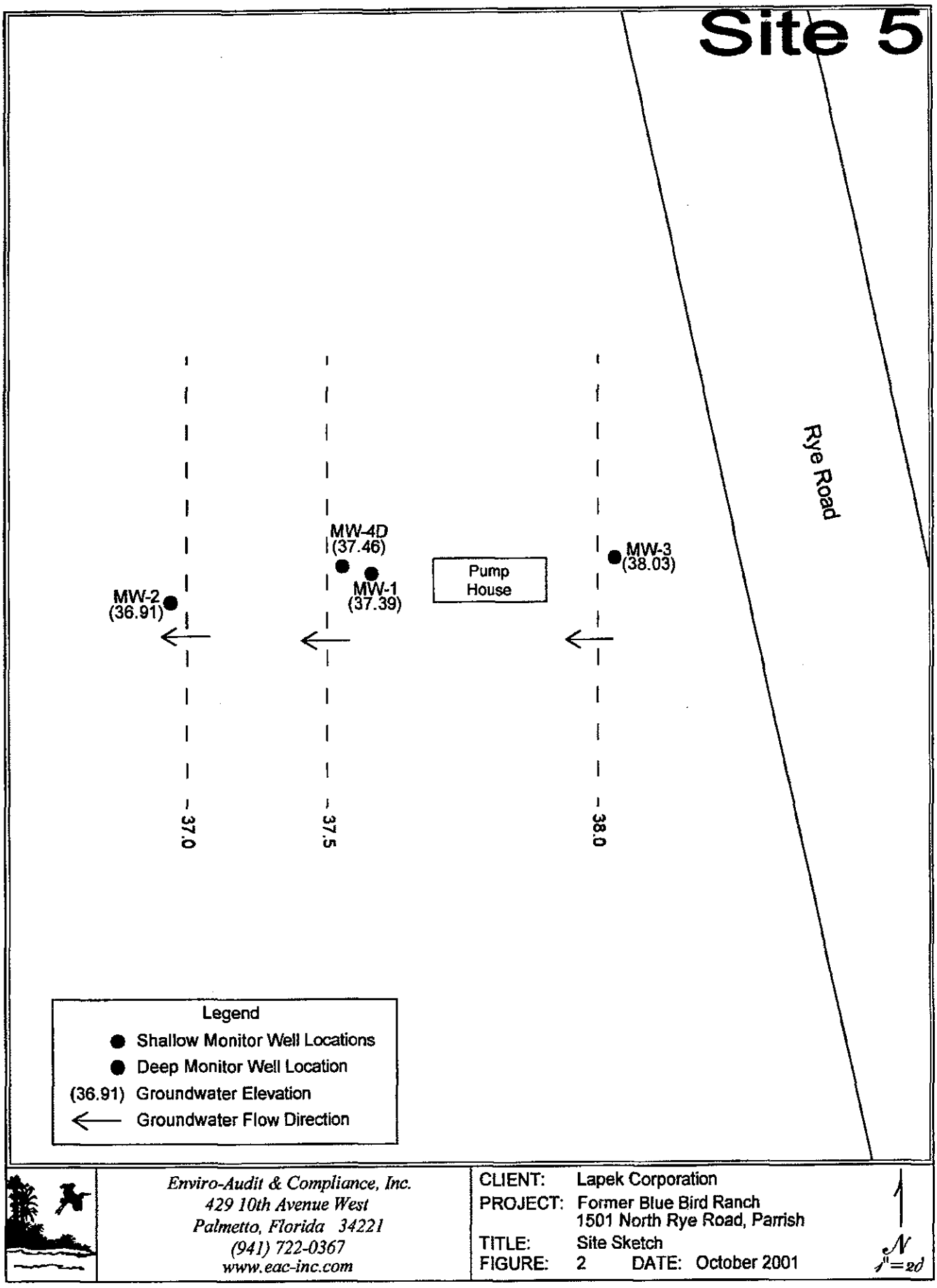
TOTAL P.04



Enviro-Audit & Compliance, Inc.
429 10th Avenue West
Palmetto, Florida 34221
(941) 722-0367
www.eac-inc.com

CLIENT: Lapek Corporation
PROJECT: Former Blue Bird Ranch
1501 North Rye Road, Parrish
TITLE: Site Location Map
SOURCE: USGS Topo Map (Parrish/Rye Quad)
FIGURE: 1 DATE: October 2001

N
N.T.S.

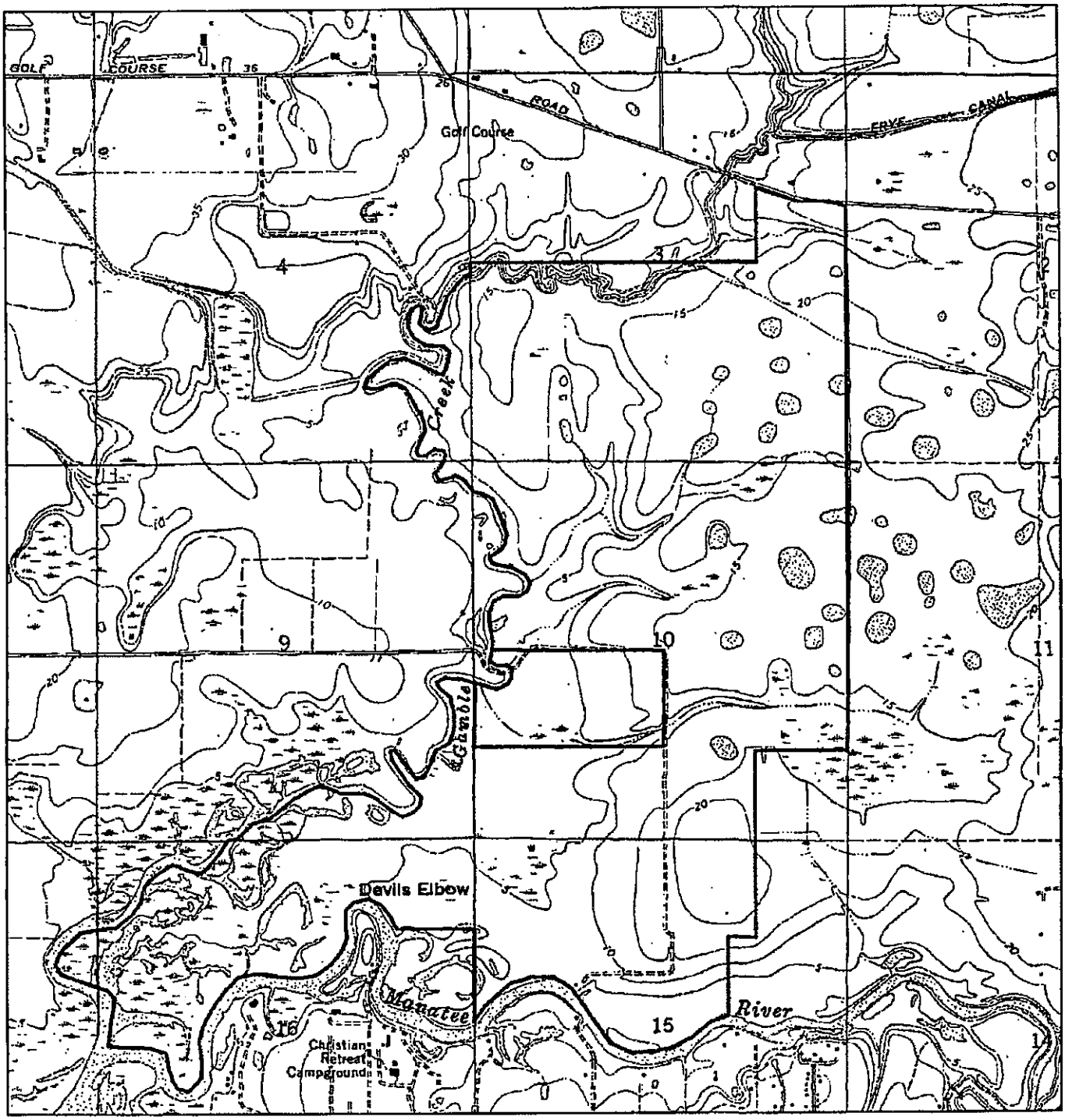


Enviro-Audit & Compliance, Inc.
429 10th Avenue West
Palmetto, Florida 34221
(941) 722-0367
www.eac-inc.com

CLIENT: Lapek Corporation
PROJECT: Former Blue Bird Ranch
1501 North Rye Road, Parrish
TITLE: Site Sketch
FIGURE: 2 DATE: October 2001

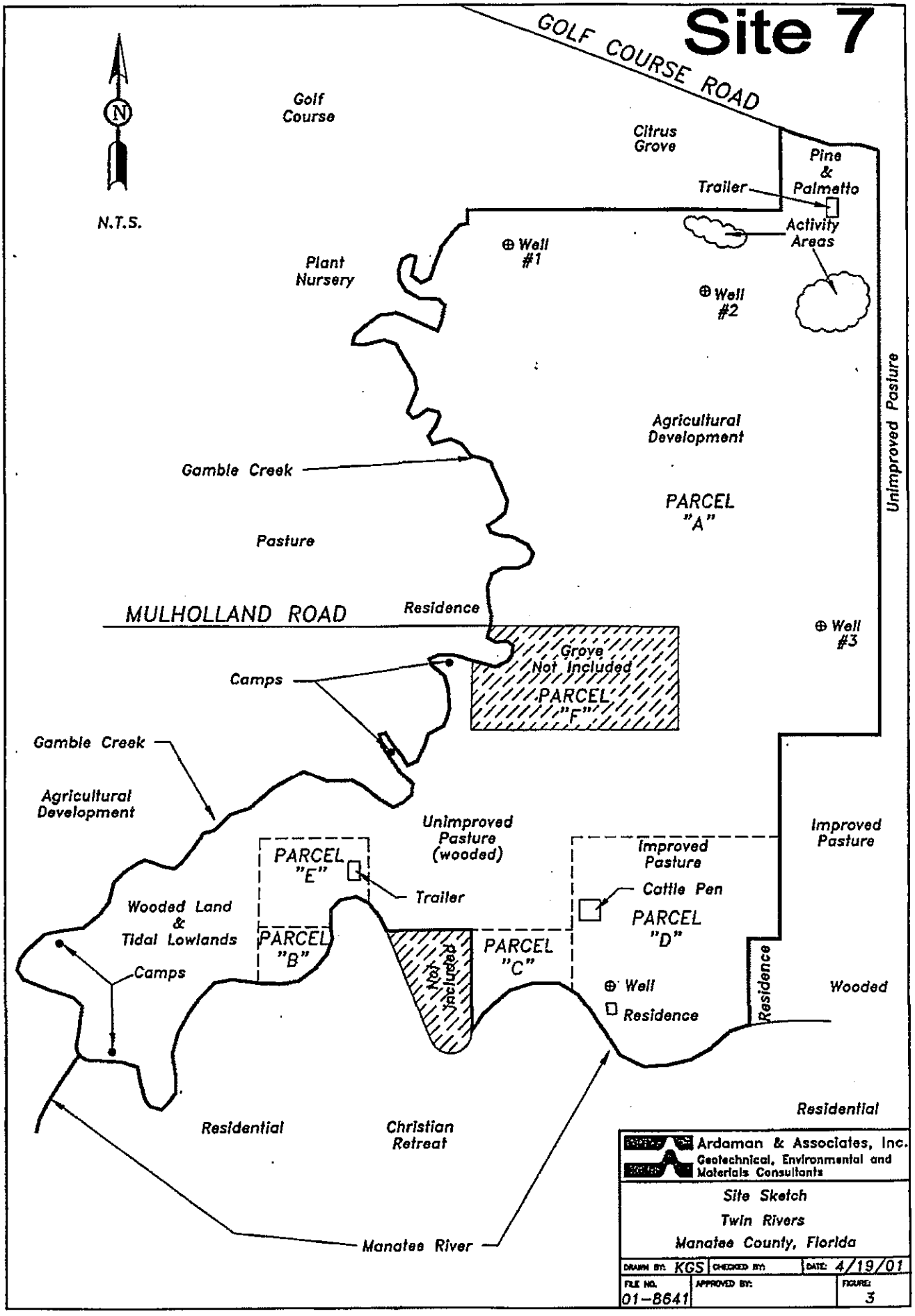
1" = 20'

Site 7

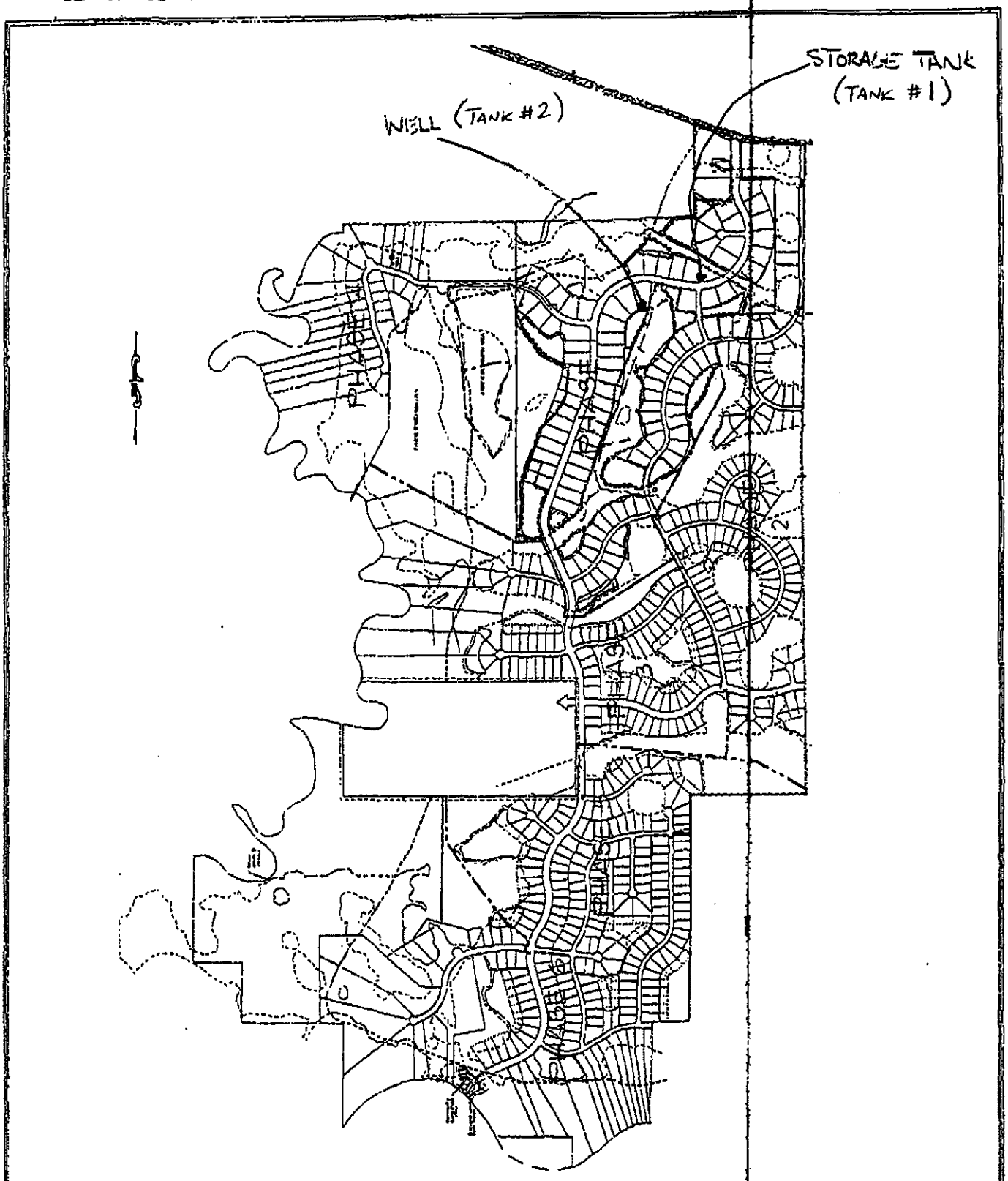


Scale: 1 : 24,000 Zoom Level: 14-0 Datum: NAD27

Ardaman & Associates, Inc. Geotechnical, Enviornmental and Materials Consultants		Location Of Site On U.S.G.S. Map Twin Rivers Manatee County, Florida	
Drawn By: KGS	Date: 4/20/01		
Approved By:		File No. 01-8641	Figure No. 2


Site 7
GOLF COURSE ROAD
N
N.T.S.
Golf Course
Citrus Grove
Pine & Palmetto
Trailer
Activity Areas
⊕ Well #1
⊕ Well #2
Plant Nursery
Unimproved Pasture
Agricultural Development
Gamble Creek
PARCEL "A"
Pasture
MULHOLLAND ROAD
Residence
⊕ Well #3
Grove Not Included
PARCEL "F"
Camps
Gamble Creek
Agricultural Development
Unimproved Pasture (wooded)
Improved Pasture
Improved Pasture
PARCEL "E"
Trailer
Cattle Pen
PARCEL "D"
Wooded Land & Tidal Lowlands
PARCEL "B"
Not Included
PARCEL "C"
Camps
⊕ Well
Residence
Residence
Wooded
Residential
Residential
Christian Retreat
Manatee River
Ardaman & Associates, Inc.
Geotechnical, Environmental and Materials Consultants
Site Sketch
Twin Rivers
Manatee County, Florida
DRAWN BY: KGS
CHECKED BY:
DATE: 4/19/01
FILE NO. 01-8641
APPROVED BY:
FIGURE: 3

Site 7



CAD file name: #:\Acad\gambicr\gamb-rgdp.dwg
Plot date and time: 20010627.0838

GENERAL DEVELOPMENT PLAN
FOR
TWIN RIVERS
LOCATED IN
MANATEE COUNTY, FLORIDA

Zoller Napper & Strayer, L.C.

N

SHEET

Site 10

CURRENT IRRIGATED AREAS

PARCEL	ACREAGE
1	228.35
2	39.38
3	845.59
4	OUT
5	OUT
6	OUT
7	OUT
8	187.84
9	122.74
10	226.43
11	33.92
12	478.49
13	286.18
14	323.31
15	166.78
16	653.72
17	137.29
18	187.81
19	111.35
20	132.61
21	263.16
22	80.91
23	160.42
24	143.28
25	129.99
26	239.68
27	35.84
28	55.67
29	54.73
30	62.43
31	155.95
32	171.33
33	OUT
34	87.46
35	112.05
36	254.93
37	157.63
38	226.64
39	172.22
40	146.88
41	32.66
42	176.93
43	244.75
44	166.34
45	162.56
46	97.95
47	277.52
48	210.67
49	326.49

RUTLAND RANCH

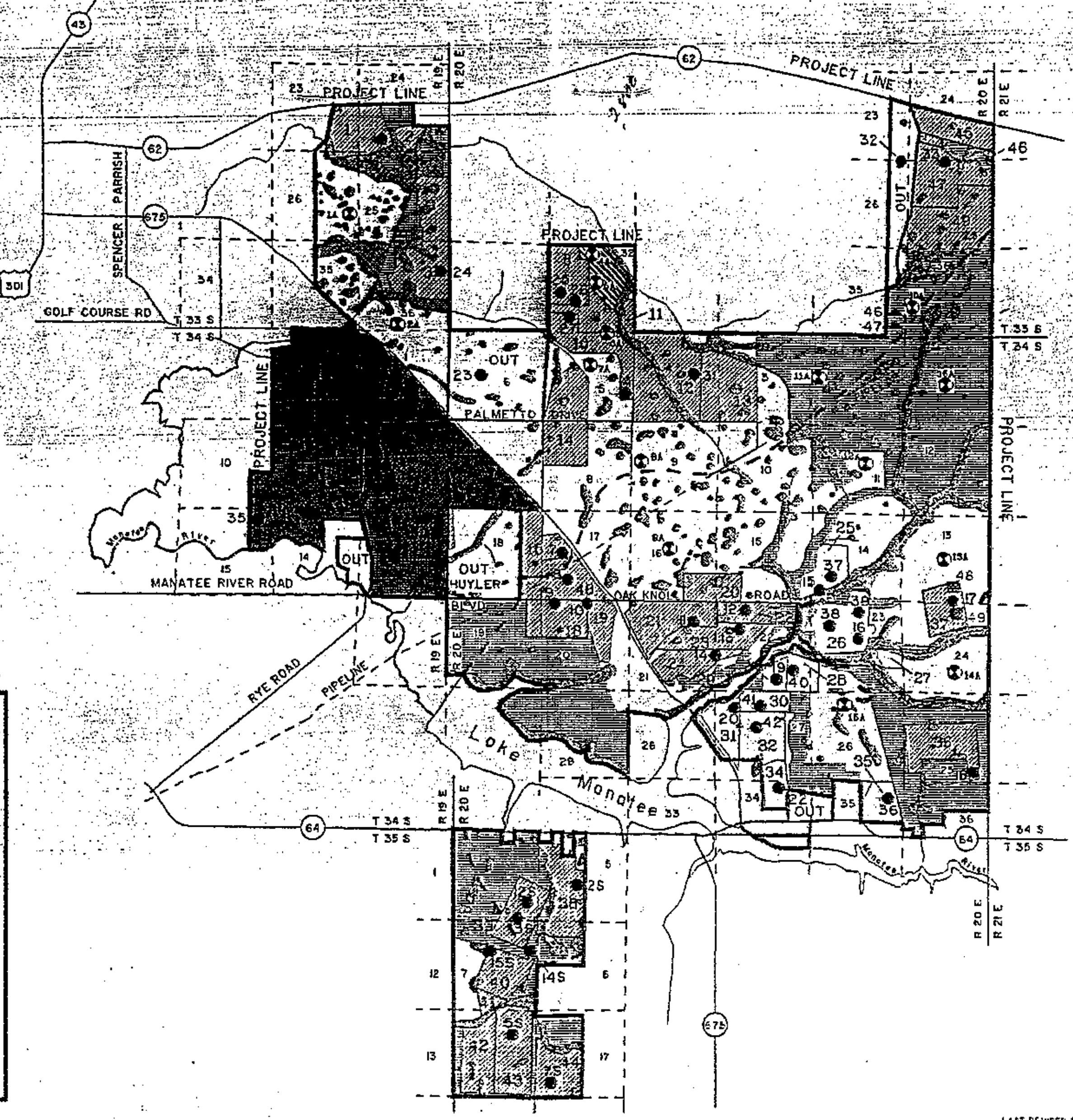
WELL NO.	DIAM. (INCHES)	GALLONS PER DAY AVERAGE	GALLONS PER DAY PEAK MO.
1	12	1,800,000	2,100,000
4	8	900,000	1,600,000
5	12	900,000	1,730,000
7	10	220,000	1,400,000
8	10	300,000	1,500,000
9	10	300,000	1,500,000
10	10	150,000	1,030,000
11	12	280,000	1,800,000
12	12	280,000	1,800,000
13	12	230,000	1,500,000
14	10	170,000	1,100,000
17	8	700,000	1,100,000
18	12	1,100,000	1,800,000
24	10	1,100,000	1,810,000
25	10	202,000	1,400,000
26	8	170,000	1,100,000
27	8	310,000	1,400,000
30	8	1,000,000	1,800,000
31	12	1,400,000	2,400,000
33	10	1,100,000	1,880,000
35	8	700,000	1,100,000

STANDBY WELLS

WELL NO.	DIAM. (INCHES)	GALLONS PER DAY AVERAGE	GALLONS PER DAY PEAK MO.
34	10	700,000	1,100,000
48	8	350,000	1,093,000
49	8	360,000	1,090,000

TOTAL QUANTITIES AUTHORIZED

ANNUAL AVERAGE: 12,510,000 GALLONS PER DAY
PEAK MONTHLY: 29,900,000 GALLONS PER DAY



BRG CITRUS

WELL NO.	DIAM. (INCHES)	GALLONS PER DAY AVERAGE	GALLONS PER DAY PEAK MO.
15	12	40,000	600,000
16	12	90,000	1,200,000
19	10	90,000	1,300,000
20	10	90,000	1,500,000
22	12	90,000	1,300,000
36	12	90,000	1,100,000
37	8	60,000	800,000
38	12	120,000	1,600,000
39	12	120,000	1,600,000
40	12	110,000	1,700,000
41	12	110,000	1,700,000
42	12	190,000	1,700,000

TOTAL QUANTITIES AUTHORIZED

ANNUAL AVERAGE: 1,190,000 GALLONS PER DAY
PEAK MONTHLY: 15,500,000 GALLONS PER DAY

SMOKEY FARMS

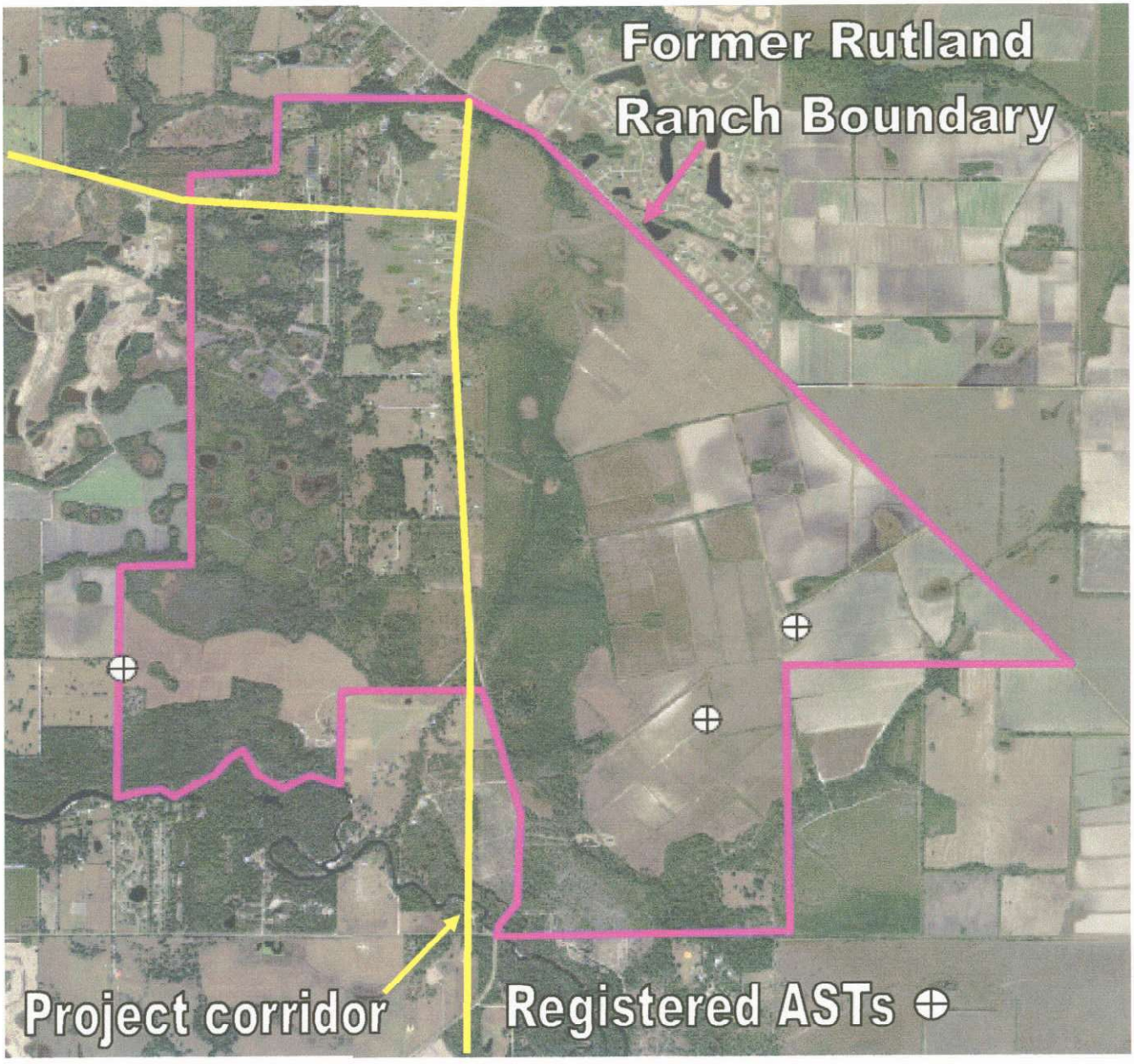
WELL NO.	DIAM. (INCHES)	GALLONS PER DAY AVERAGE	GALLONS PER DAY PEAK MO.
2-S	12	670,000	1,240,000
6-S	12	815,000	1,650,000
7-S	10	902,000	1,600,000
12-S	8	435,000	780,000
13-S	8	485,000	720,000
14-S	8	377,000	780,000
16-S	12	1,436,000	2,690,000

TOTAL QUANTITIES AUTHORIZED

ANNUAL AVERAGE: 4,970,000 GALLONS PER DAY
PEAK MONTHLY: 9,460,000 GALLONS PER DAY

CURRENT & PROPOSED IRRIGATED AREAS MAP
FOR RUTLAND RANCH
Henigar & Ray
Sheet No. of

Site 10


Former Rutland
Ranch Boundary
Project corridor
Registered ASTs

APPENDIX D

EDM Reports

Fort Hamer Alternative

ENVIRONMENTAL DATA REPORT

Approx. 6 Mile X .5 Mile Buffer Corridor
Upper Manatee River Road
and Fort Hammer Road
Manatee County, Florida
Client Job#: C100003879.01

Prepared For:

URS Greiner-Woodward Clyde
7650 W. Courtney Campbell Cswy
Tampa, FL 33607

Prepared By:

ENVIRONMENTAL DATA MANAGEMENT, INC.
12360 66th Street North
Largo, Florida 34643

09 February 2000

EDM

Environmental Data Management, Inc.
12360 66th Street North
Largo, Florida 33773
Tel. (727) 536-8989 Fax (727) 535-9757
http://www.edm-net.com

09 February 2000

Bruce Desilet
URS Greiner-Woodward Clyde
7650 W. Courtney Campbell Cswy
Tampa, FL 33607

Subject: **Environmental Data Report -- EDM Job No:11347**

Dear Mr. Desilet:

Thank you for your interest in our Environmental Data Report. Enclosed please find the information you requested for the following location:

Approx. 6 Mile X .5 Mile Buffer Corridor
Upper Manatee River Road
and Fort Hammer Road
Manatee County, Florida
Client Job#: C100003879.01

The following lists were queried to determine whether sites listed in the USEPA or FDEP environmental records that we have compiled in our database[1] were present within your specified search radius. *Where applicable*, the ASTM standard search radius is indicated beside each list.

USEPA INFORMATION

- NATIONAL PRIORITIES LIST **(NPL)** -1 MILE
- COMPREHENSIVE ENVIRONMENTAL RESPONSE, COMPENSATION AND LIABILITY INFORMATION SYSTEM LIST **(CERCLIS)** -1/2 MILE
- NO FURTHER REMEDIAL ACTION PLANNED LIST **(NFRAP)** -1/2 MILE
- EMERGENCY RESPONSE NOTIFICATION SYSTEM LIST **(ERNS)** -1/4 MILE
- RCRIS HANDLERS WITH CORRECTIVE ACTION **(CORRACTS)** - 1 MILE
- RESOURCE CONSERVATION AND RECOVERY INFORMATION SYSTEM **(RCRIS)** -TSD 1 MILE/NONTSD 1/4 MILE
- HAZARDOUS WASTE DATA MANAGEMENT SYSTEM LIST **(HWDMS)** -TSD 1 MILE/NONTSD 1/4 MILE
- FACILITY INDEX DATA SYSTEM LIST **(FINDS)** -1/4 MILE
- TOXIC RELEASE INVENTORY SYSTEM LIST **(TRIS)** -1/4 MILE

FDEP INFORMATION

- FLORIDA STATE FUNDED ACTION SITES LIST **(SFAS)** -1 MILE
- FLORIDA SITES LIST **(SITES)** -1/2 MILE
- SOLID WASTE FACILITIES LIST **(SLDWST)** -1/2 MILE
- PETROLEUM CONTAMINATION TRACKING SYSTEM REPORT **(PCTS)** -1/2 MILE
- STATIONARY TANKS INVENTORY SYSTEM LIST **(TANKS)** -1/4 MILE
- HAZ WASTE COMPLIANCE & ENFORCEMENT TRACKING SYSTEM RPT**(COMHAZ)** -TSD 1 MILE/NONTSD 1/4 MILE

[1]Regulatory list updates are exhibited at the bottom of each database explanation page, found in the main body of the report.

In order to query our database for the listings that lie within your specified study area, EDM utilized the information supplied by you to establish the subject property location and then initiated the appropriate search radius using our Geographic Information System (GIS) integrated database. All sites identified within your research area have been compiled into a Master List, found at the beginning of our report. Where requested, the relative locations of these sites have also been displayed on a map that appears in front of the Master List.

Please note that because our computerized maps are based upon U.S. Census Bureau files, absolute precision in facility placement is not always possible. The map scale and site locations shown on the map (if applicable) are therefore approximate, and are provided for general orientation purposes only. However, actual site locations will seldom be found more than several hundred feet from the reported location. Due to this potential variation, we actually query a radius slightly larger than that requested (typically 0.05 miles more).

The locations identified on our maps represent specific address points along a roadway. However, a large parcel may have a street address located hundreds (if not thousands) of feet away from its property boundary. To account for this, we have provided a listing of "proximal" sites found slightly outside of the requested research area (typically 0.1 - 0.2 miles). These sites are summarized in the Proximal Sites Appendix. This Appendix may also be useful for those who may simply be interested in a facility that occurs slightly outside of the study area, particularly if extensive contamination has been reported. If detailed information concerning any location listed in the Proximal Sites Appendix is desired, simply contact us and we'll rush you the complete report on the facility, at no additional charge.

The EDM Comprehensive Reports also include an Appendix identifying those facilities, located within a two mile radius, which fall upon the NPL, CERCLIS, ERNS, SFAS, SITES and SOLID WASTE FACILITIES lists. Facilities referenced on these lists often create a higher level of environmental concern, and many of our clients appreciate having this additional information, either for inclusion in their report or simply to become more familiar with the sites of potential regional concern. If you would like specific information on any of the sites appearing in the Two Mile Summary Appendix, please contact us and we will be happy to supply you with this information at no additional cost.

In some instances the government records that we compile do not contain sufficient address information to plot within our GIS program. However, some of these records may include sites that do actually fall within the bounds of your requested research area. These records have been summarized into a Non-Mapped Sites Appendix found at the end of our report. This Appendix is broken into three sub-groups:

1) Those non-mapped locations with **zipcode** information equal to the subject property, along with any other zipcodes you wish us to include (supplied by you on our order form). We add to this list any zipcodes listed in the records of all facilities identified within your research area, and perhaps pick up some historical zipcodes you may not have been aware of.

2) Those non-mapped locations with **no zipcode information**, but reportedly located in the **city** in which your site is located (or any adjacent cities you wish us to query). As above, we will query all records identified within your research area, and add any additional cities to the list, if necessary.

3) Those non-mapped sites with **no zipcode or city information**, but reportedly located in the **county** in which your site is located (or an additional adjacent county, if your site is very close to the county boundary).

Our report is a listing of facilities and locations that have been, or are presently involved in activities related to the handling of potentially hazardous materials. Based upon the type of activities conducted on these sites, the potential for environmental degradation to exist on that site and proximal sites may be present. Once identified as a potential risk, each facility or site listed can be further researched by visiting or communicating with local, State or Federal authorities. Without information such as that provided by our report, facilities known to be an environmental hazard or of potential concern to your study location may go undetected in your evaluation.

We at EDM take great pride in our work, and continually strive to provide you with the most thorough and comprehensive service available. However, our ultimate goal is to make your job a little easier. Without your support, we wouldn't be in business, and we sincerely appreciate your business. We are always searching for ways to improve upon our service, so don't hesitate to provide us with your suggestions!

Should you have any questions regarding this report or our service, please feel free to contact us. We appreciate the opportunity to be of service to you and look forward to working with you in the future.

Sincerely,

ENVIRONMENTAL DATA MANAGEMENT, INC.

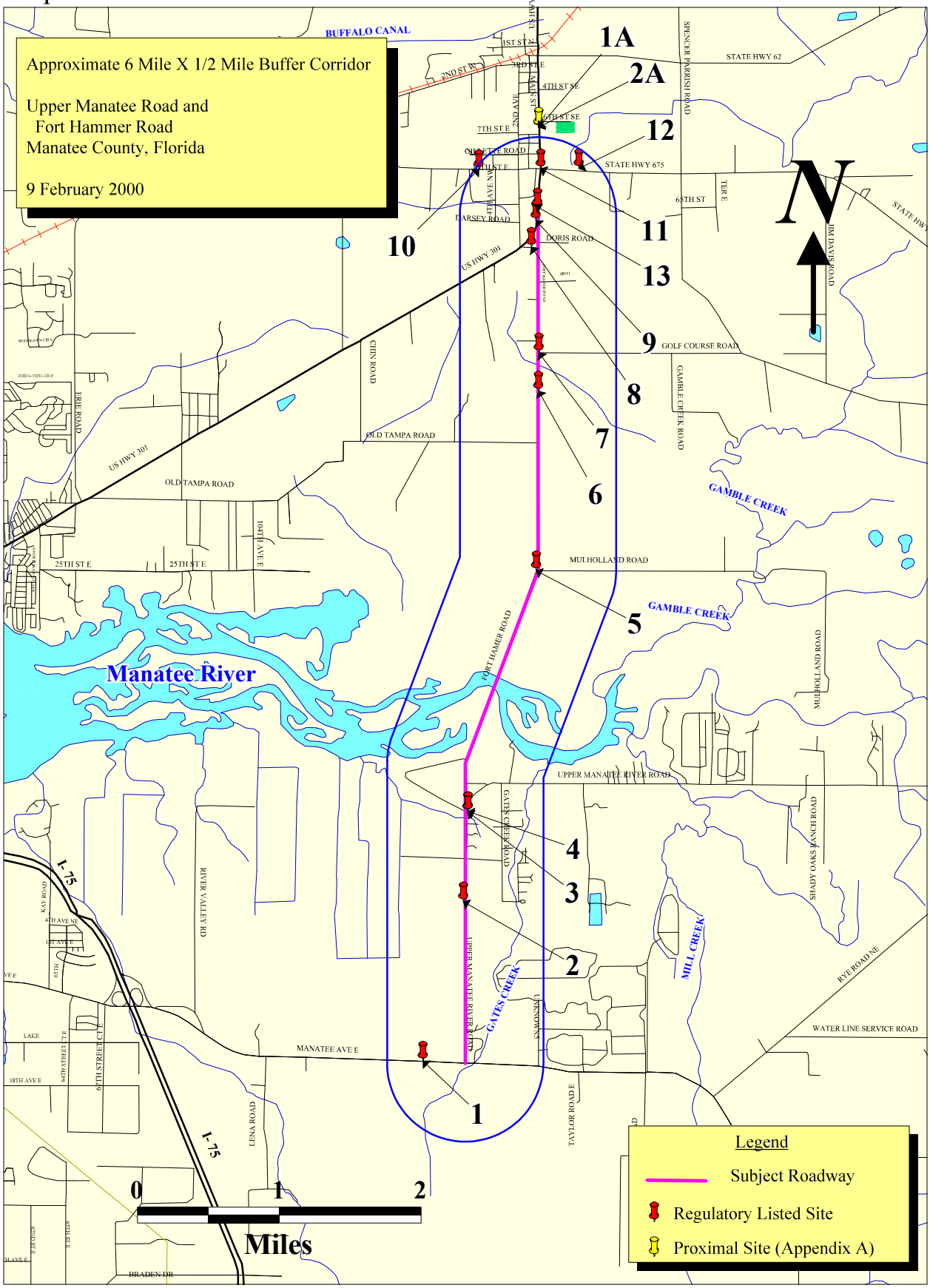
Steven F. Curry
Vice President

EDM

Environmental Data Management, Inc.
12360 66th Street North
Largo, Florida 33773
Tel. (727) 536-8989 Fax (727) 535-9757
http://www.edm-net.com

EDM Job No: 11347
Client Job No: C100003879.01

Prepared For: URS Greiner



EDM

Environmental Data Management, Inc.
12360 66th Street North
Largo, Florida 34643
Tel (813) 536-8989 Fax (813) 535-9757

Map Scale and Site Locations are Approximate

** ENVIRONMENTAL DATA MANAGEMENT **
STANDARD RADIUS REPORT

****

REGULATORY LISTS

		FEDERAL								STATE					
MAPID#	FACILITY ID NUMBER, NAME AND LOCATION	NPL	CERCLIS	NFRAP	ERNS	CORRACTS	RCRIS	HWDMS	FINDS	TRIS	SFAS	SITES	SLDWST	PCTS	TANKS	COMHAZ
1)	418839633 MANATEE DAIRIES,INC. 10107 HWY 64 E BRADENTON FL 342029448														X	
2)	418838967 STEWART GROVES UPPER MANATEE RD BRADENTON FL 34206														X	
3)	419700838 MOORE PROPERTY 108 UPPER MANATEE RIVER RD BRADENTON FL 34202													X		
4)	419700838 MOORE PROPERTY 108 UPPER MANATEE RIVER RD BRADENTON FL 34202														X	
5)	419300757 MULHOLLAND ROAD FARM MULHOLLAND & FORT HAMER RD PARRISH FL 34219														X	
6)	418734011 PALMETTO PINES GOLF COURSE FT HAMMER RD PARRISH FL 33508														X	
7)	418623998 FT HAMER FARMS FT HAMER RD & GOLF COURSE RD PARRISH FL 33564														X	
8)	419201948 HERRERA, PETE 12107 60TH ST E PARRISH FL 34219													X	X	
9)	419401161 UNITED AGRI PRODUCTS FL INC 12120 US HWY 301 PARRISH FL 34219														X	
9)	FL0000670026 UNITED AGRI PRODUCTS-FLA. 12120 US HWY 301 PARRISH FL 34219								X							

****

REGULATORY LISTS

MAPID#	FACILITY ID NUMBER, NAME AND LOCATION	FEDERAL									STATE					
		NPL	CERCLIS	NFRAP	ERNS	CORRACTS	RCRIS	HWDMS	FINDS	TRIS	SFAS	SITES	SLDWST	PCTS	TANKS	COMHAZ
10)	FLR000051607 GENES TRUCK SERVICE 503 10TH ST E PALMETTO FL 34219															X
11)	418624080 BP-PARRISH 12205 US HWY 301 N PARRISH FL 34219													X	X	
12)	418624044 KING/CECIL 403 RUTLAND RD PARRISH FL 33564														X	
13)	419801702 MANATEE CNTY PARRISH FUEL SITE 12132 US HWY 301 N * PARRISH FL														X	

US EPA NATIONAL PRIORITIES LIST
(NPL)

The US EPA National Priorities List (NPL) is a listing of facilities and/or locations where environmental contamination has been confirmed and prioritized for "Superfund" cleanup activities. The NPL was devised as a method for the EPA to prioritize these sites for the purpose of taking remedial action as funded by the Hazardous Waste Substance Superfund program, which was initially established under the Comprehensive Environmental Response, Compensation and Liability Act of 1980 (CERCLA). Please see the CERCLIS database description for further information relative to the CERCLA program.

The EDM NPL report includes records identified in your study area that are listed as a NPL facility. Please note that the data detail provided in the EDM NPL report was enhanced by adding more site-specific information provided in EPA Publication "Superfund: Progress at National Priority List Sites".

The EDM NON-MAPPED SITES APPENDIX is a listing of those records that could not be mapped, due to insufficient address information. We recommend reviewing this section since it is possible that a facility listed in this section may fall within your search area. The EDM 2 MILE SUMMARY APPENDIX is provided in the EDM comprehensive report format, and includes some of the more "potentially disconcerting" sites (including the NPL) mapped within an approximate 2 Mile radius of your requested study area. If more specific information relative to a particular site listed in either of these summary Appendices is required, please contact us and we will send you this more detailed information as an addendum to this report, at no additional charge.

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NPL DATABASE

Agency File Date: 12/13/1999 Received by EDM: 01/06/2000 EDM database updated: 01/10/2000

FACILITY ID NUMBER, NAME AND LOCATION:

NO DATA FOUND FOR STUDY AREA

MAP IDENTIFICATION NUMBER:

NPL

Date Proposed:
Date Finalized:
Date Deleted:

Add'l Info:

NPL STATUS:

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******ADDITIONAL SITE INFORMATION******

The US EPA Comprehensive Environmental Response, Compensation, and Liability Information System (CERCLIS) list contains facilities and/or locations that the USEPA is investigating to determine if an existing or threatened release of hazardous substances is present. The CERCLIS list contains sites that have been proposed for inclusion on the NPL, are actually on the NPL and/or are in the screening and assessment phase for possible inclusion on the NPL. Once identified as a potential environmental problem, a preliminary site assessment is typically conducted by the USEPA or State agency for all sites listed on the CERCLIS list. Based upon the findings of the preliminary assessment, further assessment and remediation activities may be deemed necessary. If warranted, the site may be ranked according to the degree of environmental health and safety concerns and placed on the NPL for cleanup per the Hazardous Waste Substance Superfund program, initially established under the Comprehensive Environmental Response, Compensation and Liability Act of 1980 (CERCLA).

As of February 15, 1995, CERCLIS no longer includes sites which the EPA has assessed and designated "No Further Remedial Action Planned" (NFRAP). A NFRAP designation means, to the best of EPA's knowledge, Superfund completed its assessment at a site and has determined no further steps to list this site on the NPL will be taken unless information indicating this decision was not appropriate or other considerations make a recommendation for listing appropriate at a later time. An NFRAP decision does not necessarily mean that there is no hazard associated with a given site; it means only that based upon available information, the location is not judged to be a potential NPL site (see our NFRAP database description).

The EDM CERCLIS report includes CERCLIS records identified within your study area. The appearance of a site on this list does not necessarily indicate environmental problems on the site, but rather that the site is listed by the EPA as one that requires further assessment or remedial activities. These activities may include preliminary assessment activities that might lead to the site being removed from the CERCLIS list.

The EDM NON-MAPPED SITES APPENDIX is a listing of those records that could not be mapped, due to insufficient address information. We recommend reviewing this section since it is possible that a facility listed in this section may fall within your search area. The EDM 2 MILE SUMMARY APPENDIX is provided in the EDM comprehensive report format, and includes some of the more "potentially disconcerting" sites (including CERCLIS listings) mapped within an approximate 2 mile radius of your requested study area. If more specific information relative to a particular site listed in either of these summary Appendices is required, please contact us and we will send you this more detailed information as an addendum to this report, at no additional charge.

CERCLIS DATABASE

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