

APALACHICOLA RIVER
S.E.T.



Ben Meadows

1-800-241-6401

LEVEL BOOK

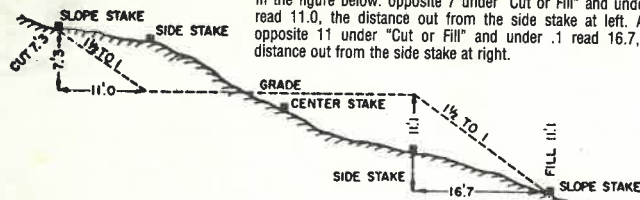
#101596

VOLUME I

DISTANCES FROM SIDE STAKES FOR CROSS-SECTIONING

Roadway of any Width. Side Slopes 1½ to 1.

In the figure below: opposite 7 under "Cut or Fill" and under .3 read 11.0, the distance out from the side stake at left. Also, opposite 11 under "Cut or Fill" and under .1 read 16.7, the distance out from the side stake at right.



Cut or Fill	Distance out from Side or Shoulder Stake										Cut or Fill
	0	.1	.2	.3	.4	.5	.6	.7	.8	.9	
0	0.0	0.2	0.3	0.5	0.6	0.8	0.9	1.1	1.2	1.4	0
1	1.5	1.7	1.8	2.0	2.1	2.3	2.4	2.6	2.7	2.9	1
2	3.0	3.2	3.3	3.5	3.6	3.8	3.9	4.1	4.2	4.4	2
3	4.5	4.7	4.8	5.0	5.1	5.3	5.4	5.6	5.7	5.9	3
4	6.0	6.2	6.3	6.5	6.6	6.8	6.9	7.1	7.2	7.4	4
5	7.5	7.7	7.8	8.0	8.1	8.3	8.4	8.6	8.7	8.9	5
6	9.0	9.2	9.3	9.5	9.6	9.8	9.9	10.1	10.2	10.4	6
7	10.5	10.7	10.8	11.0	11.1	11.3	11.4	11.6	11.7	11.9	7
8	12.0	12.2	12.3	12.5	12.6	12.8	12.9	13.1	13.2	13.4	8
9	13.5	13.7	13.8	14.0	14.1	14.3	14.4	14.6	14.7	14.9	9
10	15.0	15.2	15.3	15.5	15.6	15.8	15.9	16.1	16.2	16.4	10
11	16.5	16.7	16.8	17.0	17.1	17.3	17.4	17.6	17.7	17.9	11
12	18.0	18.2	18.3	18.5	18.6	18.8	18.9	19.1	19.2	19.4	12
13	19.5	19.7	19.8	20.0	20.1	20.3	20.4	20.6	20.7	20.9	13
14	21.0	21.2	21.3	21.5	21.6	21.8	21.9	22.1	22.2	22.4	14
15	22.5	22.7	22.8	23.0	23.1	23.3	23.4	23.6	23.7	23.9	15
16	24.0	24.2	24.3	24.5	24.6	24.8	24.9	25.1	25.2	25.4	16
17	25.5	25.7	25.8	26.0	26.1	26.3	26.4	26.6	26.7	26.9	17
18	27.0	27.2	27.3	27.5	27.6	27.8	27.9	28.1	28.2	28.4	18
19	28.5	28.7	28.8	29.0	29.1	29.3	29.4	29.6	29.7	29.9	19
20	30.0	30.2	30.3	30.5	30.6	30.8	30.9	31.1	31.2	31.4	20
21	31.5	31.7	31.8	32.0	32.1	32.3	32.4	32.6	32.7	32.9	21
22	33.0	33.2	33.3	33.5	33.6	33.8	33.9	34.1	34.2	34.4	22
23	34.5	34.7	34.8	35.0	35.1	35.3	35.4	35.6	35.7	35.9	23
24	36.0	36.2	36.3	36.5	36.6	36.8	36.9	37.1	37.2	37.4	24
25	37.5	37.7	37.8	38.0	38.1	38.3	38.4	38.6	38.7	38.9	25
26	39.0	39.2	39.3	39.5	39.6	39.8	39.9	40.1	40.2	40.4	26
27	40.5	40.7	40.8	41.0	41.1	41.3	41.4	41.6	41.7	41.9	27
28	42.0	42.2	42.3	42.5	42.6	42.8	42.9	43.1	43.2	43.4	28
29	43.5	43.7	43.8	44.0	44.1	44.3	44.4	44.6	44.7	44.9	29
30	45.0	45.2	45.3	45.5	45.6	45.8	45.9	46.1	46.2	46.4	30
31	46.5	46.7	46.8	47.0	47.1	47.3	47.4	47.6	47.7	47.9	31
32	48.0	48.2	48.3	48.5	48.6	48.8	48.9	49.1	49.2	49.4	32
33	49.5	49.7	49.8	50.0	50.1	50.3	50.4	50.6	50.7	50.9	33
34	51.0	51.2	51.3	51.5	51.6	51.8	51.9	52.1	52.2	52.4	34
35	52.5	52.7	52.8	53.0	53.1	53.3	53.4	53.6	53.7	53.9	35
36	54.0	54.2	54.3	54.5	54.6	54.8	54.9	55.1	55.2	55.4	36
37	55.5	55.7	55.8	56.0	56.1	56.3	56.4	56.6	56.7	56.9	37
38	57.0	57.2	57.3	57.5	57.6	57.8	57.9	58.1	58.2	58.4	38
39	58.5	58.7	58.8	59.0	59.1	59.3	59.4	59.6	59.7	59.9	39
40	60.0	60.2	60.3	60.5	60.6	60.8	60.9	61.1	61.2	61.4	40

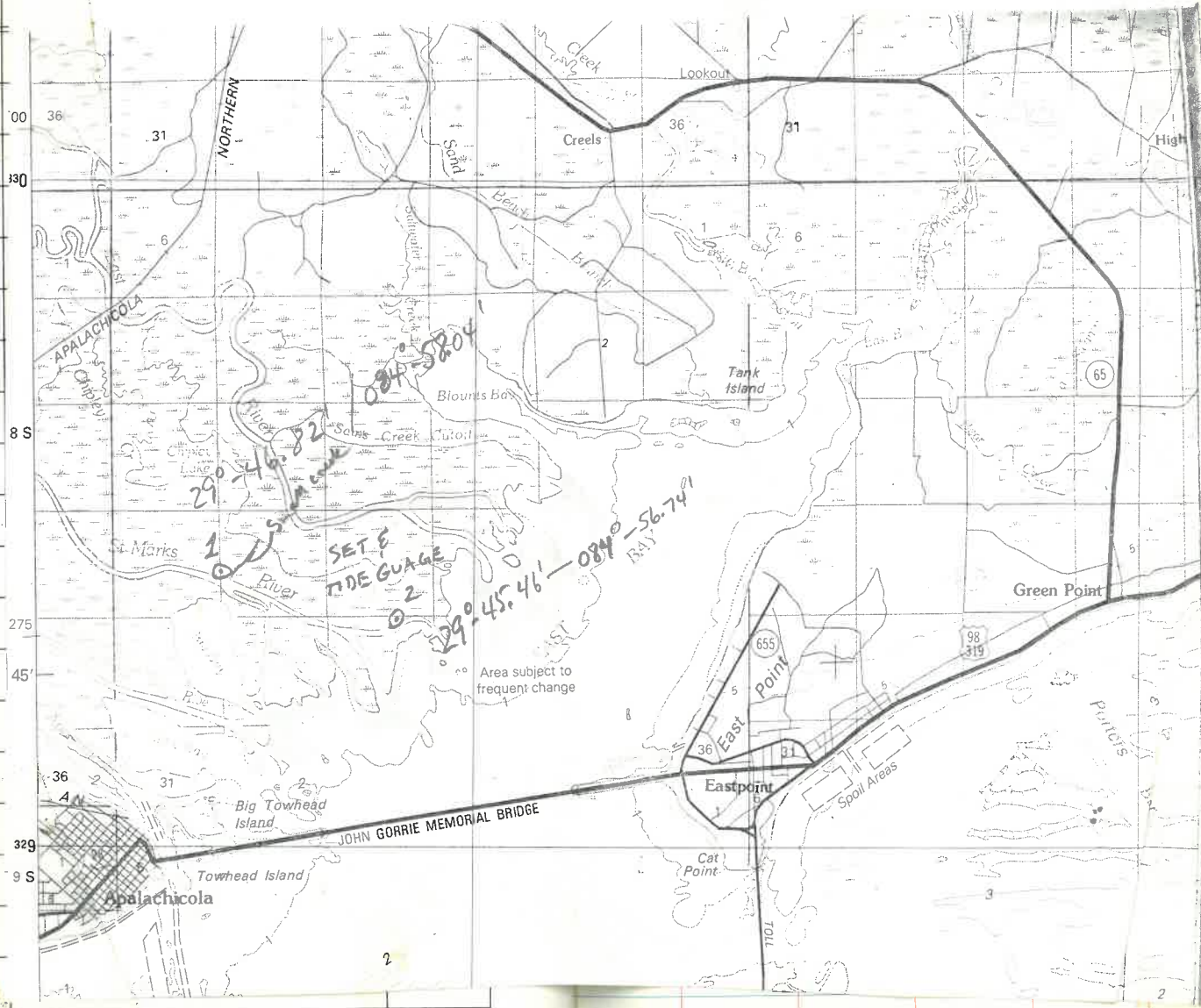
Set + Cr40
finished 7/7/99
+ on disk

The paper in this book is made of 50% high grade rag stock with a WATER RESISTING surface sizing.

CONTENTS

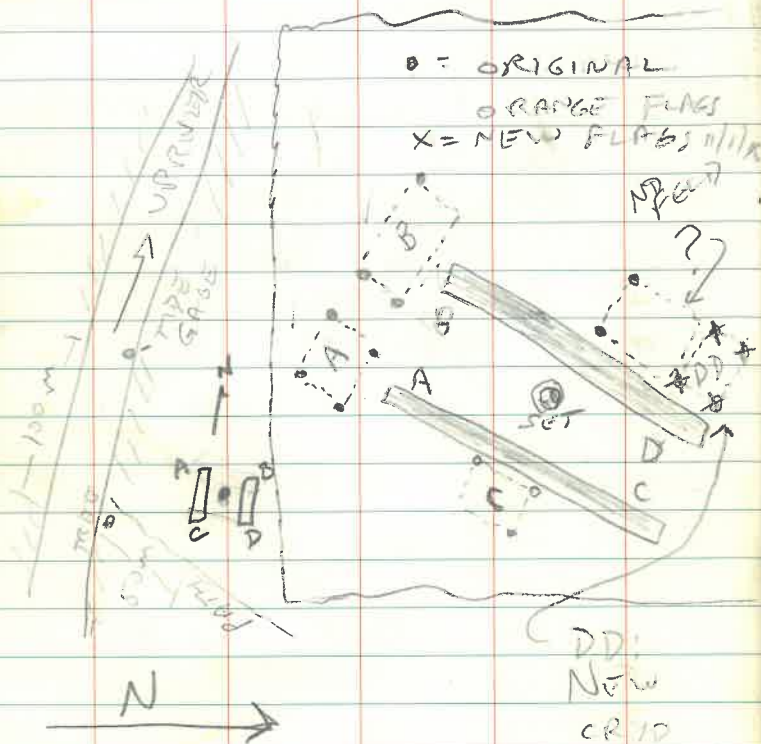
PAGE NO.

established 2/26



ANERR
SITE #1

11/1/96



DD:
NEW
CRID
PLOT
ESTAB
11/1/96

SITE 1 3-20-96

* Core at site #1 (upriver) / 15 ft. East of SET
LOCATION : 24cm of pipe above ground / 88.5cm of Compaction
HOLE DEPTH 8'11" after extraction

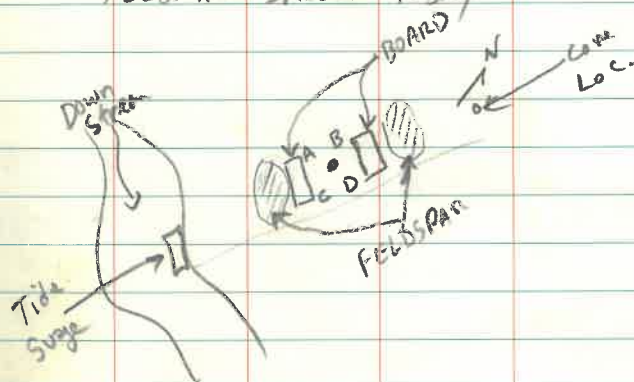
(SW?) (NW?) (SE?) (NE?)

LOCATION	A (NW)	B (NE)	C (SW)	D (SE)
(cm) 1	23.3	30.0	30.5	30.5
2	26.9	28.0	29.9	30.0
3	28.9	29.1	29.5	28.7
4	29.0	29.7	29.1	30.7
5	28.1	28.9	29.8	28.8
6	30.0	29.6	29.8	29.3
7	28.2	30.4	29.5	30.5
8	27.7	30.2	29.4	30.6
9	28.7	29.6	crab hole	29.3

AVE 27.9 29.5 29.7 29.8

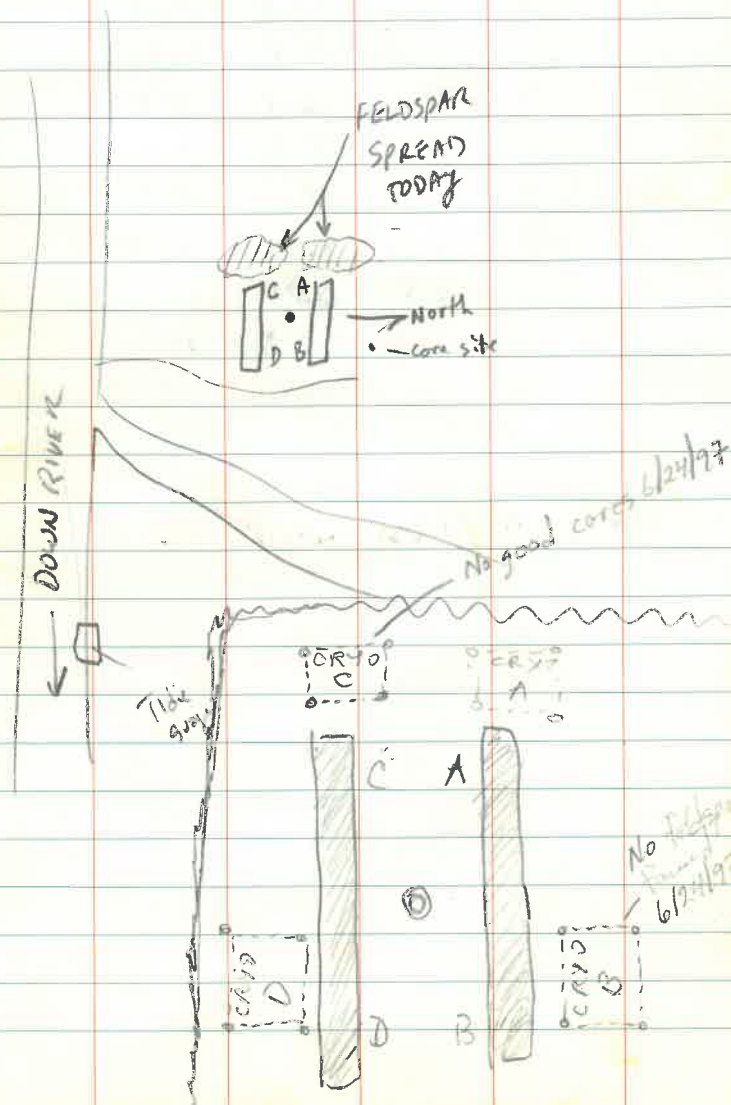
No FIELDS/PAN READINGS

FIELDS PAN SPREAD TODAY



! INITIAL READING !

ANERR SITE #2 3/20/96



SITE 2

3-20-96

	A	B	C	D
	nw	ne	sw	se
1	44.0	41.5	44.0	43.9
2	43.7	41.8	42.2	43.2
3	43.5	43.3	42.8	43.5
4	43.7	41.5	42.9	43.5
5	43.5	44.2	42.3	41.0
6	42.7	41.9	43.0	42.4
7	42.5	41.2	41.4	45.0
8	42.6	38.8	41.2	43.9
9	42.5	39.1	42.2	44.0

AVE 43.2 41.5 42.4 43.4
 ↳ 42.6 ←

No Feldspar readings...
 spread today



INITIAL READING!

ANERR SITE #1

11/1/96

	(A) SW	B NW	C SE	D NE (cm)
1	29.8	28.8	29.2	30.1
2	30.3	28.3	29.7	30.1
3	29.6	29.2	28.7	29.6
4	29.1	29.0	28.8	29.2
5	29.5	29.4	29.7	28.6
6	29.7	30.1	29.9	29.3
7	29.3	28.3	29.2	29.2
8	29.2	30.3	29.6	28.9
9	28.1	29.0	28.2	29.1
	29.4	29.2	29.2	29.3

LE R 90 (mm) → 29.3

A B C * *THICK FILM SP

6.3		4.1
8.5	7.3	3.5
6.6	6.1	6.6
5.8	7.3	5.0

AVE 6.8 6.9 4.8

NOTE: NEW 10' PLANK TO STAMP SET

Note: Used Same LETTERED DESIGNATIONS AS 3/20/96.

DIRECTIONS ARE INDICATED ON 3/20/96 TABLE

ANERR SITE #2

11/1/96

	A NW	B NE	C SW	(D) SE (cm)
1	42.4	43.0	43.9	40.6
2	42.7	41.5	41.9	41.0
3	43.0	42.6	41.8	41.2
4	41.8	42.8	43.1	44.5
5	40.7	42.5	43.7	42.6
6	43.4	43.6	42.7	42.5
7	43.0	44.6	BLOCKED	44.3
8	44.6	41.6	45.0	43.9
9	42.7	44.0	43.0	43.5
AVE	42.7	42.9	43.1	42.7

CR 10 (mm)

9.4 (RAN OUT OF N₂)

11.6

9.6

10.6

AVE 10.3

~~SECRET~~
~~NO DISSEMINATION~~
~~ALL INFORMATION CONTAINED HEREIN IS UNCLASSIFIED~~
~~DATE 11/1/96 BY 1111/1/96~~

6/24/97 ANERR SITE 1 <sup>CLIFF
DEB
CHIP (GUESS)</sup>

	A	B	A	C
1	27.4	28.1	28.8	29.0
2	28.3	29.9	30.3	29.5
3	29.2	29.1	29.5	28.9
4	28.3	28.6	30.5	29.1
5	28.0	29.0	29.1	29.3
6	27.6	29.3	29.5	28.7
7	28.0	28.1	29.6	26.9
8	28.3	29.1	29.2	29.9
9	28.9	29.0	29.5	28.8

cryst B 77.5573
good layer

DD 10.0, 10.3
good

A 12.4, 13.9, 12.0
good

6/24/97 ANERR SITE 2

	A	B	C	D
1	43.9	43.2	42.7	40.1
2	44.2	42.5	44.7	40.5
3	43.5	43.7	44.0	43.0
4	44.5	43.5	42.6	41.1
5	41.9	43.0	43.0	45.6
6	43.8	hole	43.4	43.2
7	42.6	43.7	43.8	40.7
8	44.4	43.5	43.5	43.8
9	42.8	41.8	43.0	42.6

cryst C (31.4) (22.0) (31.4)
3 cores (poor) (poor) (poor)

A 27.1, 28.5, 26.1
very good

B 2 attempts - No
feldspar found

1-14-98

Outgoing TIDE 12:35pm
Warm, Sunny Windy

STATION 1

	A	B	C	D	
1	28.4	28.2	28.8	27.0	
2	28.0	26.8	27.4	28.0	27.0
3	27.3	26.5	27.7	28.8	
4	26.4	27.5	29.3	29.2	
5	27.2	27.6	26.8	28.3	
6	27.5	27.8	28.4	28.3	
7	26.4	27.7	28.6	28.6	
8	28.0	27.7	28.7	28.6	
9	25.9	26.8	27.5	27.9	

CRYO

A.C

19.6

1	14.5	19.5
2	11.8	
3	13.1	Discontinuity
4	10.1	

need longer boards + cross board
New Feldspar @ B

1-14-98



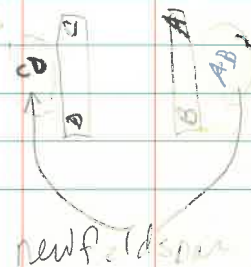
1-14-98

3:00pm
outgoing tide

STATION 2

	A	B	C	D
1	40.6	39.6	39.7	42.3
2	41.4	40.2	40.5	40.3
3	41.7	41.8	40.5	40.6
4	40.4	40.6	39.7	41.8
5	41.2	40.5	39.5	40.8
6	40.9	41.4	40.3	41.5
7	40.6	42.0	39.5	43.2
8	41.6	41.4	40.4	42.8
9	41.9	41.3	42.5	42.6

CRYO

7 2
3
4No sand
minfeldspar applied A + B
1-14-98

JIM, CHEN DESEA

3-16-98 1²³ PM WINDY WARM CLEAR

ST MARKS SET STATION 1

60 cm water at tree with flag + 11"

OVER SET BOARDS $\uparrow$ normally dry

COULD NOT READ SET

ST MARKS

7-23-98

STATION 1

DRY, WINDY, HOT

HYDROLAB DEPLOYED

12:21

GAUGE HT 3.40

A B C D

1 28.3

2 28.5

3 26.0

4 24.3

5 24.6

6 27.6

7 27.8

8 27.9

9 27.8

W/16

A-C

B

1 22.4

2 17.9

3 20.6

4 21.5

36 samples NONISE



8-12-98

No read

	STA: 1 UPRIVER			
	NWA	NEB	SWC	SED
1	29.4	27.2	28.4	27.1
2	30.1	28.4	28.8	26.9
3	27.5	27.5	28.4	28.1
4	28.0	27.9	27.1	27.3
5	27.5	27.1	29.1	26.8
6	28.2	28.1	27.5	27.8
7	28.1	28.3	26.7	27.4
8	28.0	26.3	29.0	27.1
9	28.0	27.7	29.2	28.0

ST. 1000

8-12-98

LADNEX

ADELL

STATION 2

DOWNRIVER

	NWA	NEB	SWC	SED
1	39.2	40.7	43.4	42.6
2	40.9	41.8	41.2	38.9
3	42.8	42.2	42.5	41.1
4	40.6	39.6	42.7	41.5
5	Crab Hole	40.5	40.4	41.3
6	40.5	Crab Hole	42.0	41.9
7	40.5	40.3	43.1	42.9
8	40.3	43.3	42.3	43.3
9	42.4	43.2	42.1	42.5

2/8/99 Debra & Jim L.
Apalachicola River

STATION 1 upriver

	A (NW)	B (NE)	C (SW)	D (SE)
1	29.6	28.0	29.7	29.7
2	30.1	28.0	30.0	29.9
3	28.6	27.8	29.1	28.3
4	28.9	26.5	28.0	28.1
5	29.4	27.6	29.5	28.1
6	28.7	29.0	29.7	24.3
7	27.3	27.3	27.5	28.1
8	27.7	28.3	28.0	28.6
9	28.0	27.3	28.9	28.9

A-C

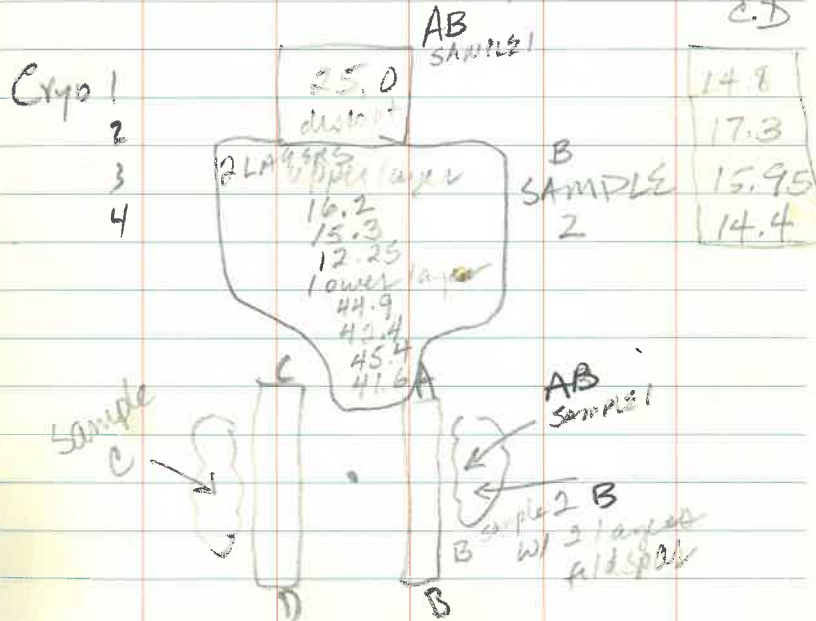
Cryo 1	15.05	
2	19.95	very
3	17.75	thick
4	19.8	layer
5	20.75	



2-8-99

STATION 2 downriver

	A (NW)	B (NE)	C (SW)	D (SE)
1	42.2	42.9	41.7	44.1
2	41.7	41.5	44.0	43.5
3	42.1	43.3	42.8	43.9
4	40.9	42.6	42.1	42.4
5	39.7	43.5	41.1	42.5
6	42.0	44.0	42.4	45.3
7	40.6	43.0	40.8	42.8
8	40.2	42.6	42.7	44.1
9	38.5	43.2	41.4	42.7



6/15/99 APALICKOLA

Site 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 200, 201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 211, 212, 213, 214, 215, 216, 217, 218, 219, 220, 221, 222, 223, 224, 225, 226, 227, 228, 229, 230, 231, 232, 233, 234, 235, 236, 237, 238, 239, 240, 241, 242, 243, 244, 245, 246, 247, 248, 249, 250, 251, 252, 253, 254, 255, 256, 257, 258, 259, 260, 261, 262, 263, 264, 265, 266, 267, 268, 269, 270, 271, 272, 273, 274, 275, 276, 277, 278, 279, 280, 281, 282, 283, 284, 285, 286, 287, 288, 289, 290, 291, 292, 293, 294, 295, 296, 297, 298, 299, 300, 301, 302, 303, 304, 305, 306, 307, 308, 309, 310, 311, 312, 313, 314, 315, 316, 317, 318, 319, 320, 321, 322, 323, 324, 325, 326, 327, 328, 329, 330, 331, 332, 333, 334, 335, 336, 337, 338, 339, 340, 341, 342, 343, 344, 345, 346, 347, 348, 349, 350, 351, 352, 353, 354, 355, 356, 357, 358, 359, 360, 361, 362, 363, 364, 365, 366, 367, 368, 369, 370, 371, 372, 373, 374, 375, 376, 377, 378, 379, 380, 381, 382, 383, 384, 385, 386, 387, 388, 389, 390, 391, 392, 393, 394, 395, 396, 397, 398, 399, 400, 401, 402, 403, 404, 405, 406, 407, 408, 409, 410, 411, 412, 413, 414, 415, 416, 417, 418, 419, 420, 421, 422, 423, 424, 425, 426, 427, 428, 429, 430, 431, 432, 433, 434, 435, 436, 437, 438, 439, 440, 441, 442, 443, 444, 445, 446, 447, 448, 449, 450, 451, 452, 453, 454, 455, 456, 457, 458, 459, 460, 461, 462, 463, 464, 465, 466, 467, 468, 469, 470, 471, 472, 473, 474, 475, 476, 477, 478, 479, 480, 481, 482, 483, 484, 485, 486, 487, 488, 489, 490, 491, 492, 493, 494, 495, 496, 497, 498, 499, 500, 501, 502, 503, 504, 505, 506, 507, 508, 509, 510, 511, 512, 513, 514, 515, 516, 517, 518, 519, 520, 521, 522, 523, 524, 525, 526, 527, 528, 529, 530, 531, 532, 533, 534, 535, 536, 537, 538, 539, 540, 541, 542, 543, 544, 545, 546, 547, 548, 549, 550, 551, 552, 553, 554, 555, 556, 557, 558, 559, 560, 561, 562, 563, 564, 565, 566, 567, 568, 569, 570, 571, 572, 573, 574, 575, 576, 577, 578, 579, 580, 581, 582, 583, 584, 585, 586, 587, 588, 589, 590, 591, 592, 593, 594, 595, 596, 597, 598, 599, 600, 601, 602, 603, 604, 605, 606, 607, 608, 609, 610, 611, 612, 613, 614, 615, 616, 617, 618, 619, 620, 621, 622, 623, 624, 625, 626, 627, 628, 629, 630, 631, 632, 633, 634, 635, 636, 637, 638, 639, 640, 641, 642, 643, 644, 645, 646, 647, 648, 649, 650, 651, 652, 653, 654, 655, 656, 657, 658, 659, 660, 661, 662, 663, 664, 665, 666, 667, 668, 669, 670, 671, 672, 673, 674, 675, 676, 677, 678, 679, 680, 681, 682, 683, 684, 685, 686, 687, 688, 689, 690, 691, 692, 693, 694, 695, 696, 697, 698, 699, 700, 701, 702, 703, 704, 705, 706, 707, 708, 709, 710, 711, 712, 713, 714, 715, 716, 717, 718, 719, 720, 721, 722, 723, 724, 725, 726, 727, 728, 729, 730, 731, 732, 733, 734, 735, 736, 737, 738, 739, 740, 741, 742, 743, 744, 745, 746, 747, 748, 749, 750, 751, 752, 753, 754, 755, 756, 757, 758, 759, 760, 761, 762, 763, 764, 765, 766, 767, 768, 769, 770, 771, 772, 773, 774, 775, 776, 777, 778, 779, 780, 781, 782, 783, 784, 785, 786, 787, 788, 789, 790, 791, 792, 793, 794, 795, 796, 797, 798, 799, 800, 801, 802, 803, 804, 805, 806, 807, 808, 809, 810, 811, 812, 813, 814, 815, 816, 817, 818, 819, 820, 821, 822, 823, 824, 825, 826, 827, 828, 829, 830, 831, 832, 833, 834, 835, 836, 837, 838, 839, 840, 841, 842, 843, 844, 845, 846, 847, 848, 849, 850, 851, 852, 853, 854, 855, 856, 857, 858, 859, 860, 861, 862, 863, 864, 865, 866, 867, 868, 869, 870, 871, 872, 873, 874, 875, 876, 877, 878, 879, 880, 881, 882, 883, 884, 885, 886, 887, 888, 889, 890, 891, 892, 893, 894, 895, 896, 897, 898, 899, 900, 901, 902, 903, 904, 905, 906, 907, 908, 909, 910, 911, 912, 913, 914, 915, 916, 917, 918, 919, 920, 921, 922, 923, 924, 925, 926, 927, 928, 929, 930, 931, 932, 933, 934, 935, 936, 937, 938, 939, 940, 941, 942, 943, 944, 945, 946, 947, 948, 949, 950, 951, 952, 953, 954, 955, 956, 957, 958, 959, 960, 961, 962, 963, 964, 965, 966, 967, 968, 969, 970, 971, 972, 973, 974, 975, 976, 977, 978, 979, 980, 981, 982, 983, 984, 985, 986, 987, 988, 989, 990, 991, 992, 993, 994, 995, 996, 997, 998, 999, 1000

12:30 pm

SITE 1

	A	B	C	D
1	28.8	28.0	28.7	27.8
2	28.5	28.3	27.1	28.2
3	27.9	28.6	27.5	28.3
4	27.9	28.2	27.8	27.7
5	28.4	27.1	28.7	28.1
6	28.1	28.9	29.7	28.0
7	27.5	27.8	27.4	27.4
8	26.9	27.6	27.4	28.4
9	29.3	26.4	28.6	28.4

Cryo	A-C	Very thick layer
1	13.7	
2	16.3	
3	18.7	
4	16.7	

Site 2

	A	B	C	D
1	38.0	41.5	37.1	42.3
2	36.7	42.1	36.5	CH
3	37.2	42.3	37.9	42.6
4	37.3	42.4	36.9	42.2
5	CH	41.3	38.8	42.0
6	35.2	CH	38.3	45.2
7	35.2	41.1	39.2	45.4
8	33.8	CH	38.1	42.3
9	34.5	43.4	39.7	41.9

	A-B
Cryo	Thick
1	5.5
2	6.5
3	6.4
4	5.0
5	4.8

MARKER 10

YSI readings

Salinity

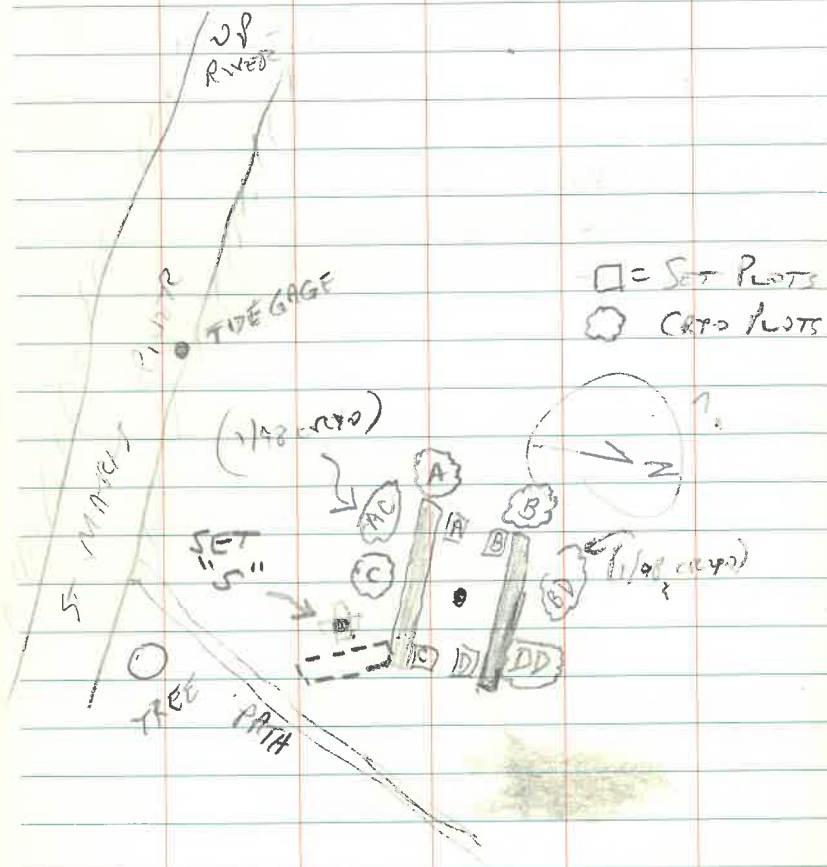
pH

10/18/89 APALACHICOLA

12 noon STATION #1 (UPPER STA)

[Bright
Tadpoles
with
Jaws]

INSTALLATION OF SHALLOW SET
SET "S"



10/18/89

NOTES

- bring flagging for tree at Sta #1
- check level of Set "S". Re-root if necessary
- Shallow Set site established 10/18/89
- 50 cm Alum tube buried to ground level & grouted
- Set pipe grouted in Alum tube & leveled

NOTES:

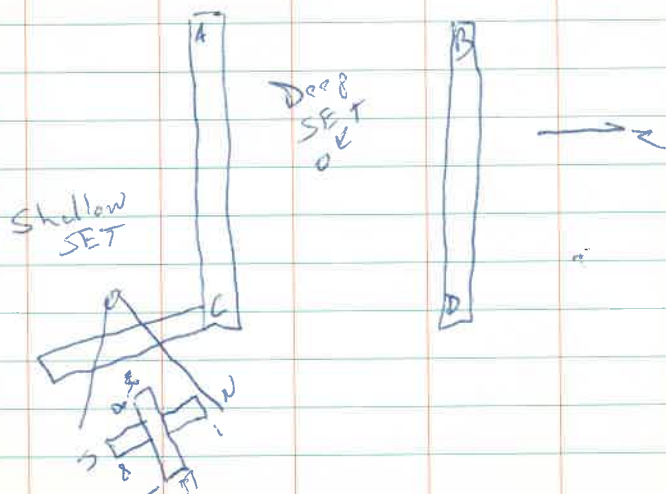
- (1) Mark shallow SET device with "X" at one end. Inst. "X" end at North + East directions only
- (2) Buy 2 new SET pipes for Turtle Island sites SA + SB-N
- (3) Bring 2 bags cement
- (4) Add T-plank at end of Apalach Shallow

11/19/98 91 Appalachicola
Shallow SET

Brian
Matt

48.7		Measurements in <u>cm</u>	
4.6		N-5	E-W
47.5	1	44.1	42.4
	2	44.6	47.5
	3	45.5	46.3
	4	~	44.1 46.1
	5	45.3	44.1 44.1
	6	45.6	44.1 44.4
	7	45.0	46.1
	8	44.8	47.2

4 was scratched due to
hole dug from
construction



12/9/99

appb-2
2000-2
note 3

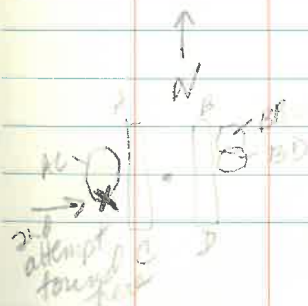
Jim L.
Debra

11:44 am Clear Cool, Low Tide
STATION 1 A B C D

1	28.2	27.9	27.5	28.5
2	28.4	26.9	27.4	29.0
3	28.4	27.9	27.0	27.2
4	27.0	27.6	25.5	28.0
5	27.5	28.1	28.2	27.9
6	28.9	26.7	26.3	28.1
7	28.0	27.7	24.1	28.5
8	27.4	28.6	27.8	28.5
9	29.1	27.2	25.2	28.6

↑ now in path to Short
6-7 ft pls. may not be usable SET

CR10	AC	BB	BD	AC #2	1. 1st 2nd thick layers
1	None	None	None	24.14	
2	#1			26.05	
3				25.28	
4				24.97	



Water on 1st high
tide

12/9/99

STATION 2	A	B	C	D
1	41.6	43.0	40.9	43.1
2	42.1	43.8	40.3	45.4
3	42.1	44.0	39.5	43.5
4	42.2	43.2	39.5	42.7
5	CH	43.5	39.9	42.5
6	41.7	44.3	39.2	45.0 RCT
7	41.8	42.6	41.9	44.1
8	42.7	42.9	40.4	43.3
9	42.0	43.6	42.8	41.7

CR40

	upper layer	lower layer	
A	4-B	A-B	C-D
52.27	22.65	40.21	22.25
55.45	23.04	42.92	19.84
57.02	specks	43.91	20.16
52.86	specks	15.67	
good large		good large	

Don't
USE - confusing

flashes in both
layers - lots of
books

layers
in one
place or
some else

water on marsh @ low tide

55 mm 9 mos 2 days 30 yr

G 1.5

10 days

8 days

$$\frac{55}{137.5} = \frac{11}{27.5}$$

10 days

10 days

10 days

10 days

10 days

10 days

10 days

10 days

10 days

10 days

10 days

10 days

10 days

10 days

10 days

10 days

10 days

10 days

10 days

10 days

10 days

10 days

10 days

10 days

10 days

10 days

10 days

10 days

10 days

10 days

10 days

10 days

10 days

10 days

1/21/00

Sta 1

(CM)

A

D *

C

B *

1	29.7	29.9	30.3	28.7
2	29.2	28.3	29.9	30.1
3	27.5	28.8	27.8	29.9
4	28.9	28.1	28.7	27.4
5	29.9	28.5	31.0	22.5 (CH)
6	30.4	26.4	28.8	26.2
7	29.5	27.0	25.8	28.0
8	28.5	28.1	27.5	25.2
9	27.0	27.2	28.7	23.2

Shallow SET

N-S

E-W

E

(MW)

N			
1	441.0	471.5	
2	440.0	445.0	
3	451.0	473.0	
4	440.0	463.0	
5	454.5	465.0	
6	454.0	449.0	
7	448.0	465.6	
8	448.0	471.0	

Stan W
Jim L 5-15-2000

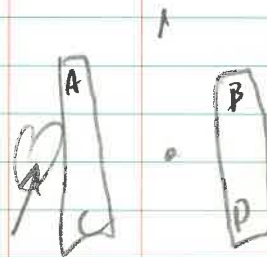
Apalachicola River

STA 1

	A	B	C	D
1	29.9	27.9	30.1	27.3
2	28.6	27.6	30.4	29.1
3	30.6	29.5	29.6	27.9
4	28.1	26.3	29.2	28.6
5	28.5	27.4	28.9	28.6
6	28.6	27.2	30.4	28.4
7	28.0	27.2	29.2	28.5
8	28.3	26.4	29.7	26.7
9	28.4	26.2	28.0	28.8

A-C

Cryo 1	17.21
2	12.39
3	16.83
4	18.08
5	13.81

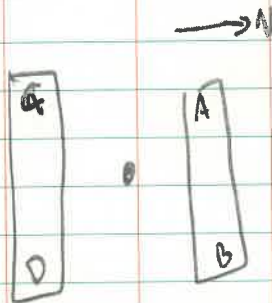


Jim L
AlkanwApalachicola River S-15-
SITE 2 downriver

	A	B	C	D
1	39.2	43.3	40.9	42.7
2	41.4	41.5	40.7	43.0
3	42.2	42.9	42.2	43.7
4	40.2	41.7	40.2	42.2
5	CH 32.9	41.4	40.5	42.5
6	42.4	41.9	42.4	44.2
7	40.0	40.3	40.5	44.4
8	41.6	CH 29.8	39.7	44.3
9	43.1	41.7	41.8	43.5

AB

Cryo 1	21.53
2	15.32
3	10.85
4	12.46
5	13.3
6	16.78



10/9/00

Apalachicola River Station 1
Jim L
Brown

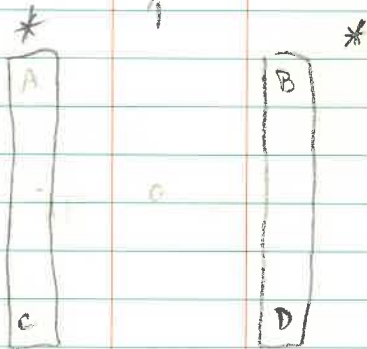
	A	B	C	D
1	30.4	26.4	28.9	28.9
2	28.6	28.2	29.1	28.6
3	28.0	27.5	28.8	28.6
4	28.1	28.5	29.2	28.4
5	28.0	28.7	28.4	28.6
6	29.1	29.2	29.4	28.5
7	27.7	27.7	27.8	27.4
8	29.2	27.7	28.3	26.5
9	28.2	28.1	27.9	29.0

Cryo

BBA

1	29.3	22.4	25.1
2	25.4	17.6	
3	23.4	25.0	
4	20.5	25.8	
	26.9		

* = first found

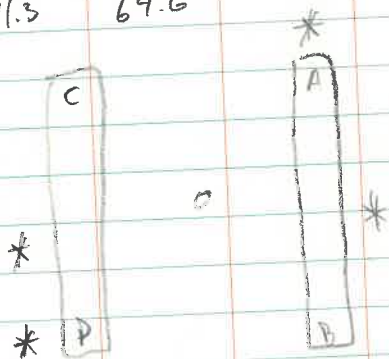


10/9/00

Apalachicola River Bridge

Station 2

	A	B	C	D
1	40.1	40.5	43.5	43.5
2	43.1	42.6	41.6	44.5
3	42.4	42.4	42.3	44.5
4	40.0	41.9	41.7	42.7
5	39.9	41.6	40.8	44.5
6	42.6	42.3	42.7	45.1
7	40.0	41.2	41.9	44.5
8	40.2	40.7	38.6	43.1
9	41.6	42.4	42.3	43.9
	<u>AB</u>	<u>B</u>	<u>CD</u>	<u>D</u>
1	9.0	62.1	15.1	412.2
2	7.5	74.5	17.8	41.1
3	24.6	73.3	17.0	42.9
4	13.5	69.2	19.9	
	11.3	64.6		



10/9/00

Apalachicola River Bridge

	N-S	E-W	(m)
1	466	448	
2	452	435	
3	447	443	
4	463	447	
5	465	435	
6	443	400	
7	458	432	
8	450	445	

W

4/8/00

Agulhas P.

Boran C
Kobay H

Station 1

	A	B	C	D
1	29.4	29.2	29.75	29.3
2	29.3	28.3	29.0	28.9
3	28.7	29.5	28.1	28.15
4	29.2	29.2	28.9	28.7
5	28.35	28.8	29.2	29.45
6	31.3	29.6	29.15	29.05
7	27.85	27.8	27.8	25.7
8	27.8	31.0	28.6	26.8
9	28.2	27.9	24.95	29.0

Cayo

1
2
3
4

Site is under water
Cayo having
trouble

Note: Holes @ low tide dry
when not @ high tide

Shallow SET

		N-S	E-W	
N	1	467	454.5	E
	2	473.5	444	
	3	451.5	459	
	4	466	438.5	
	5	464.5	418	
	6	431	393	
	7	478	439	
S	8	430	442	W

N
↑

12/7/00

Apalachicola R

Briar C.
Tim L

Station 1

A B C D

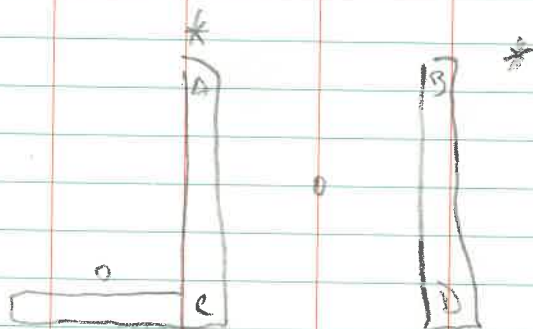
1	29.4	27.6	29.6	29.7
2	29.4	26.9	29.4	29.2
3	28.8	28.3	28.8	28.8
4	29.1	28.6	27.7	28.4
5	28.2	28.5	29.0	29.0
6	29.2	27.8	28.9	29.2
7	28.4	29.0	18.5	27.9
8	27.0	26.4	28.5	27.3
9	28.0	28.3	28.4	29.3

C. 40

BB

A

1	35.9	31.1	33.9
2	44.1	31.5	
3	48.6	32.1	
4	45.4	31.3	
5		33.1	



Shallow SFT

	N-S	E-W	
N 1	460	415.5	E
2	458	410	
3	452	449.5	
4	458.5	438	
5	451.5	423	
6	441.5	393	
7	452	430	
S 8	453.5	452	W

1/16/01

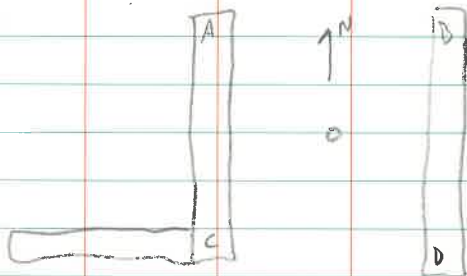
Apalachicola R.

Br. C.
Al. W.

Stations 1

	A	B	C	D
1	31.4	26.9	29.45	29.95
2	28.4	28.7	27.9	28.9
3	27.65	29.0	27.2	29.6
4	28.7	30.5	29.4	28.65
5	29.0	29.7	29.5	29.95
6	31.0	28.8	28.9	28.8
7	29.1	26.45	28.2	29.7
8	27.6	28.6	28.5	29.0
9	28.6	28.4	27.4	29.7

C _{exp}	BB	A
1	17.13	25.59
2	18.43	26.31
3	15.69	26.35
4	14.63	
5		



Shallow SFT

		N-S	E-W	
N	1	460	446	
	2	488	445	
	3	448	474	
	4	457	449	
	5	451	430	
	6	443	438	
	7	453	445	
S	8	413	453	W

2/15/01

Apalachicola
Station 1Br... C.
Alon W.

A

B

C

D

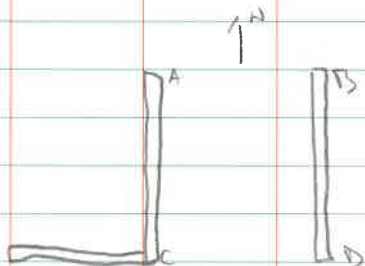
1	30.3	28.7	27.8	29.2
2	28.5	27.75	26.5	28.9
3	29.3	28.7	27.7	29.05
4	28.1	28.2	26.3	28.8
5	29.1	28.6	27.1	28.9
6	28.25	28.1	25.6	28.9
7	29.4	28.5	27.2	29.2
8	28.3	27.25	27.4	28.15
9	28.25	27.4	24.9	29.65

Cryo

BB

A

1	24.52	20.38
2	28.11	22.21
3	27.32	22.44
4	22.89	22.18
5	28.78	



Shallow SET

N-S E-W

1	444	467
2	452	481
3	425	474.5
4	418	452.
5	443.5	461
6	448.5	443.5
7	405.5	463
8	449	475

3/14/01

Apalachicola River

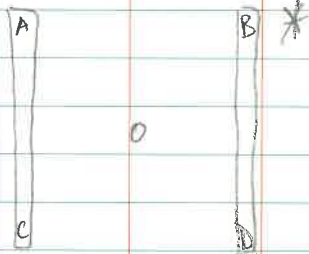
Brian C.
Allen W.

Station 1

	A	B	C	D
1	30.6	28.2	27.55	30.15
2	29.8	27.0	28.3	30.25
3	28.65	29.0	28.05	28.95
4	28.5	30.5	28.05	29.1
5	29.3	29.1	29.0	28.9
6	29.0	30.1	29.0	27.9
7	30.0	27.1	27.55	29.2
8	29.0	28.2	28.6	28.5
9	28.5	30.0	27.7	27.55

Cryo BB

1	22.22
2	26.82
3	25.77
4	
5	



Shallow SET

	N-S	E-W
1	474.0	450.0
2	482.0	442.0
3	451.5	458.0
4	453.0	438.0
5	464.5	430.0
6	443.0	441.5
7	461.0	440.5
8	428.0	448.0

4/24/01

Apalachicola R

J. L.
B. C.

Station 1

~~C~~

B

~~A~~

D

1	29.4	29.7	27.7	29.5
2	28.9	29.1	30.1	29.4
3	29.0	28.6	29.4	29.5
4	27.6	28.6	28.2	29.8
5	28.2	28.6	31.5	30.1
6	28.5	28.7	29.5	29.7
7	26.3	28.9	29.0	28.9
8	28.4	28.7	29.5	29.9
9	28.2	28.5	28.5	28.8

Cryb

BB?

A

1	22.02	16.65
2	24.59	17.13
3	22.29	14.19
4	17.27	16.17
5	15.42	

125 ft
to waterSch. 0.1 m
Temp 21.5°C

SS

0

*

A

*

B

D

4/24/01

Apalachicola

J. L.
B. C.

Shallow SFT

N-S E-W

1	453	458
2	459	473
3	458	448
4	441	452
5	443	462
6	400	447
7	441	474
8	446	469

4/24/01

Apalachicola

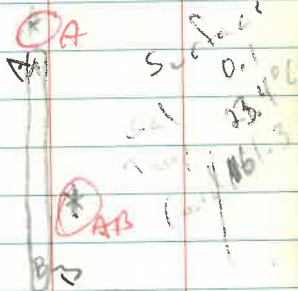
Jim B
Jim C

Stations 2

	A	B	C	D
1	43.6	41.7	44.2	41.1
2	44.4	42.0	42.6	42.8
3	44.1	41.4	42.1	45.6
4	43.6	41.8	34.5	43.1
5	25.1	41.2	43.0	43.8
6	43.1	41.4	43.9	44.5
7	45.0	36.3	42.7	43.8
8	39.3	39.3	41.8	42.6
9	42.5	41.7	42.0	43.6

Cryo	A	B	D	CD
1	27.86	14.21	16.44	19.19
2	27.95	16.46	18.05	20.32
3	28.83	17.18		28.75
4	24.56	15.19		29.29
5	33.85	14.87		39.05
		17.16		22.89

225 ft to
river edge
Salinity 0.1 ppt
Temp 21.9°C
Cond 154.3

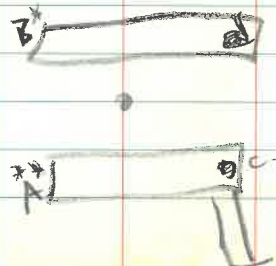
Jim B
Jim C11:49 AM
Apalachicola River SET
3/20/02

STA 1

	(B)	(A)	D	C
1	29.4	30.0	29.2	29.0
2	28.0	27.8	28.5	28.2
3	28.0	27.9	28.8	28.4
4	30.3	28.2	28.0	28.4
5	28.8	27.8	28.1	28.3
6	27.6	28.8	27.9	28.5
7	28.8	25.9	25.5	26.3
8	27.4	26.8	28.1	27.5
9	27.8	19.6	27.0	28.5

	B	A
Cryo 1	23.69	31.42
2	22.36	
3	23.74	
4	25.39	

12:13 pm
Sal 0.1 ppt
Temp 22.0°C
Cond 164.0 ms



Jim C
Jim B

Apalachicola River SET

STA 2

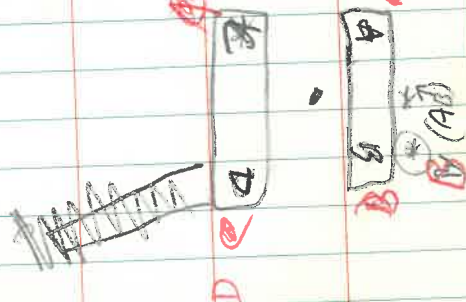
A NW B NE C SW D SE

1	42.9	42.5	43.2	42.9
2	40.5	42.4	42.7	43.7
3	40.6	44.0	43.5	42.1
4	41.3	41.1	43.4	42.7
5	39.8	20.6 CH	41.5	41.4
6	42.4	42.8	44.6	42.6
7	40.9	42.7	43.7	41.7
8	42.9	43.2	43.4	38.9
9	41.7	43.4	43.6	42.6

(A B) B

Cryo 1	31.17	20.10
2	29.42	21.51
3	26.12	18.27
4	22.28	24.47
		22.26
		20.82

Temp 21.7°C
Cond 230.6 µS
SAL 0.1 pp



5/21/03

S.E.T

Jim C
Brian C

Apalachicola River

SITE 1

A NW B NE C SW D SE

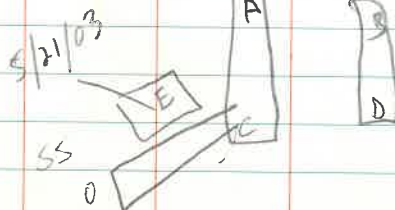
1	28.8	29.1	29.5	30.0
2	30.0	28.9	28.1	29.7
3	28.4	28.9	26.6	29.4
4	29.1	28.6	27.8	29.9
5	27.7	28.5	28.2	28.8
6	28.6	27.7	28.8	28.8
7	28.8	28.4	27.3	29.8
8	28.5	28.0	28.0	28.9
9	28.5	27.8	28.1	29.5

Cryo

1
2
3
4

Notes: Some time in past year had
fire thru this site.

* marked PVC pipe



Site 2
Lost 27
Cutoff and
Fire damage

Jim C
Jim B

Apalachicola River SET

STA 2

03/20/02

	A NW	B NE	C SW	D SE
1	42.9	42.5	43.2	42.9
2	40.5	42.4	42.7	43.7
3	40.6	44.0	43.5	42.1
4	41.3	41.1	43.4	42.7
5	39.8	20.6 CH	41.5	41.4
6	42.4	42.8	44.6	42.6
7	40.9	42.7	43.7	41.7
8	42.9	43.2	43.4	38.9
9	41.7	43.4	43.6	42.6

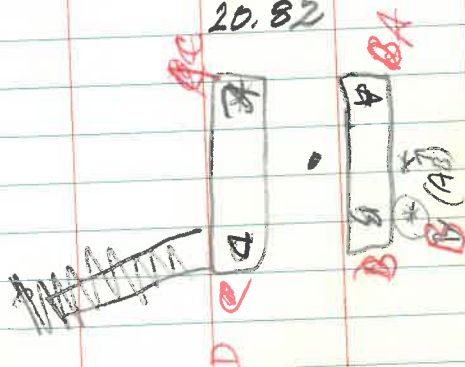
(A) B

Cry

1	31.17	20.10
2	29.42	21.51
3	26.12	18.27
4	22.28	24.47

22.26

20.82



Temp 21.7°C
Cond 230.6 µS
SAL 0.1 pp

5/21/03

S.E.T

Jim C
Brian C.

Apalachicola River

SITE 1

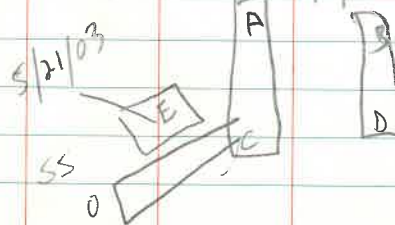
	A NW	B NE	C SW	D SE
1	28.8	29.1	29.5	30.0
2	30.0	28.9	28.1	29.7
3	28.4	28.9	26.6	29.4
4	29.1	28.6	27.8	29.9
5	27.7	28.5	28.2	28.8
6	28.6	27.7	28.8	28.8
7	28.8	28.4	27.3	29.8
8	28.5	28.0	28.0	28.9
9	28.5	27.8	28.1	29.5

Cry

1
2
3
4

Notes: Some time in past year had
fice thru this site.

* marked PVC pipe



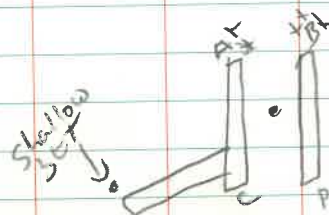
Site 2
Loss??
Cliff find
Fire damage

5/13/04 L. duer - Phelps
Apalachicola Riv.

STA 1

	NWA	NEB	SW	SE	D
1	29.3	29.7	26.6	29.2	
2	26.0	28.6	25.6	29.5	
3	18.2	28.4	26.7	29.2	
4	23.2	28.4	26.4	29.4	
5	24.1	28.5	27.6	28.8	
6	25.9	29.6	28.2	29.5	
7	28.9	28.9	27.1	30.0	
8	27.0	28.3	28.0	30.2	
9	26.5	26.0	28.2	30.6	

	A,	B,
Grp (A)	14.77	19.66
2	18.74	20.34
3		18.35
4		16.98
5		



CAN NOT FIND
STA 2 ...
Fire in area destroyed
markers

SET Replication Test
Run by: Cliff Hendrickson
Jan, 1997.

2' Al insert pipe positioned (stationary and immobile) using 2x4's and hose clamps.

The SET device is deployed, inserted and levelled. Measurements are taken in one quadrant over a "flat" surface. SET is broken down and the exercise is repeated.

(Pins are #ed)

(Pins labeled)

#3 Not labeled

Run #1	1	59.2	Run 2	59.2	59.7
JAN 15	2	58.9		58.9	58.7
2:10 pm	3	59.0		58.9	58.8
	4	59.2		59.3	59.0
	5	58.8		58.7	58.6
	6	58.8		58.8	58.7
	7	59.1		59.2	58.9
	8	58.7		58.8	58.5
	9	58.7		58.7	58.6

1/15 AVG: 1 AVG 58.93

(2) 58.94 (3) 58.83

DATE: 1/16
LABEL (Y)
1
2
3
4
5
6
7
8
9
AVG

Cold
55°
dry

DATE: 1/16
LABEL (Y)
59.2
58.8
58.8
59.2
58.7
58.8
59.1
59.0
58.7

DATE: 1/16
LABEL (N)
59.2
58.9
58.9
59.1
59.1
58.8
59.2
59.0
58.7

58.9

59.0

DATE:

V. coll.

D: 1/17/97

D: 1/17/97

L ()

low 40's

L: N

L: y

1

dry

59.5

59.4

2

59.0

59.0

3

59.0

59.0

4

59.4

59.4

5

58.9

58.9

6

58.9

59.0

7

59.4

59.4

8

59.2

59.3

9

58.8

58.9

AVG

59.1

59.1

Test

JAN 22

7	LABELED	NOT LAB
1	59.3	59.0
2	58.9	58.5
3	58.9	58.5
4	59.3	58.9
5	59.1	58.5
6	58.7	58.5
7	59.1	58.7
8	59.0	58.6
9	58.7	58.4
AVG	59.1	58.6

WARM 65° FEB 3, 1997

③	Labeled	NOT
1	59.4	59.3
2	59.0	58.9
3	59.1	59.0
4	59.2	59.3
5	58.9	58.8
6	58.9	58.9
7	59.2	59.1
8	58.8	58.9
9	58.8	58.8
AVG	59.03	59.00

SET TEST

FEB 04

PINS

⑩	LABELED	NOT
1	59.3	59.3
2	58.8	58.8
3	58.9	58.9
4	59.2	59.2
5	58.7	58.8
6	58.8	58.7
7	59.0	59.0
8	58.6	58.7
9	58.6	58.7
AVG	58.9	58.9

Feb 05

⑦	Labeled	Not
1	59.3	59.1
2	58.9	58.8
3	58.9	58.9
4	59.2	59.0
5	58.7	58.7
6	58.7	58.8
7	59.0	59.0
8	58.6	58.5
9	58.6	58.8
AVG	58.9	58.8

(3/2)

L

U

I
(4/8)

L

U

1	59.1	59.1
2	58.8	58.7
3	58.9	58.8
4	58.9	59.0
5	58.6	58.6
6	58.7	58.8
7	58.8	59.0
8	58.5	58.5
9	58.6	58.6
AVG	58.8	58.8

1	59.4	59.5
2	59.1	58.9
3	59.1	59.2
4	59.5	59.4
5	59.0	58.9
6	59.0	59.1
7	59.4	59.3
8	58.9	58.9
9	58.8	58.8
AVG	59.1	59.1

II

(4/8)

L

U

(5/12)

L

U (11)

1	59.4	59.3
2	58.9	58.9
3	58.9	58.8
4	59.3	59.4
5	58.8	58.8
6	58.8	58.8
7	59.3	59.4
8	58.3	59.0
9	58.2	58.6
AVG	58.9	59.0

1	59.1	58.9
2	58.8	58.4
3	58.8	58.5
4	59.3	58.8
5	59.2	58.4
6	58.8	58.3
7	59.3	58.5
8	58.6	58.2
9	58.6	58.2
AVG		

(12)

L

U

1	59.3	58.7
2	58.9	58.4
3	58.9	58.5
4	59.3	58.7
5	58.7	58.4
6	58.8	58.4
7	59.3	58.5
8	58.6	58.2
9	58.6	58.2
AVG		

(14)

L

U

1	59.0	59.3
2	58.7	58.8
3	58.6	58.8
4	59.0	59.3
5	58.4	58.7
6	58.5	58.8
7	58.9	59.3
8	58.3	58.7
9	58.3	58.6
AVG		

(13)

L

U

1	59.0	58.9
2	58.8	58.4
3	58.6	58.5
4	59.1	58.8
5	58.5	58.2
6	58.5	58.3
7	59.3	58.7
8	58.4	58.2
9	58.6	58.2
AVG		

(15)

L

U

1	58.9	59.1
2	58.6	58.8
3	58.6	58.7
4	58.9	58.9
5	58.4	58.7
6	58.5	58.8
7	58.9	59.3
8	58.5	58.7
9	58.4	58.6
AVG		

(16)

	L	U
1	59.1	59.3
2	58.8	59.1
3	58.8	58.8
4	58.9	58.7
5	58.7	58.8
6	58.9	58.6
7	58.8	58.5
8	58.4	58.9
9	58.6	59.1
AVG		

(17)

	L	U
1	59.0	59.1
2	58.9	58.8
3	58.8	58.8
4	58.9	59.0
5	58.6	58.5
6	58.8	58.7
7	58.9	58.9
8	58.5	58.4
9	58.6	58.5
AVG		

(18)

	L	U
1	59.1	59.1
2	58.9	58.6
3	58.7	58.7
4	59.0	59.0
5	58.7	58.5
6	58.9	58.6
7	58.7	58.8
8	58.6	58.3
9	58.4	58.5
AVG		

(19)

	L	U
1	59.2	59.0
2	58.8	58.6
3	58.8	58.8
4	59.2	58.0
5	58.7	58.6
6	58.6	58.7
7	58.8	58.9
8	58.6	58.6
9	58.6	58.4
AVG		

(20)

	L	U
1	59.3	
2	58.9	58.9
3	58.8	58.6
4	59.1	58.8
5	58.7	58.0
6	58.8	58.7
7	58.8	58.7
8	58.7	58.9
9	58.6	58.6
AVG		58.6

(21)

	L	U
1	59.2	
2	58.8	59.0
3	59.0	8.7
4	59.1	8.7
5	58.6	9.0
6	58.8	8.6
7	59.3	8.8
8	58.6	58.9
9	58.6	58.5
AVG		58.6

(22)

	L	U
1	59.3	59.1
2	58.8	58.8
3	58.8	58.8
4	59.3	59.0
5	58.6	58.9
6	58.8	58.6
7	58.8	58.5
8	58.6	58.7
9	58.6	58.7
AVG		

(23)

	L	U
1	59.2	59.0
2	58.7	59.1
3	58.9	58.7
4	59.1	58.6
5	58.7	58.4
6	58.9	58.7
7	58.6	58.8
8	58.7	58.6
9	58.6	58.8
AVG		

(24)

L U

1	59.3	59.3
2	59.0	58.7
3	59.0	58.9
4	59.3	59.0
5	58.9	58.6
6	59.0	↓ .7
7	59.2	59.0
8	58.7	58.6
9	58.7	↓ .5

(26)

L U

1	59.1	59.3
2	58.8	58.9
3	58.8	58.8
4	59.0	59.1
5	58.7	58.6
6	58.8	58.7
7	58.8	59.1
8	58.5	58.6
9	58.6	5

(25)

L U

1	59.2
2	59.0
3	59.0
4	59.2
5	58.8
6	58.9
7	59.2
8	58.8
9	58.8

(27)

L U

1	59.1	59.1
2	58.7	58.8
3	↑ .8	58.8
4	↓ .9	59.0
5	↓ .7	58.7
6	58.7	58.6
7	59.0	59.2
8	58.6	58.6
9	58.6	6

(22)

L U

1	59.0	59.4
2	58.7	58.7
3	↓ .8	58.8
4	↓ .9	59.2
5	↓ .5	58.8
6	↓ .6	58.6
7	↓ .7	59.0
8	↓ .4	58.6
9	↓ .5	58.6

(23)

L U

1	59.0	59.0
2	58.7	58.9
3	↓ .8	58.9
4	↓ .9	58.8
5	↓ .6	58.7
6	↓ .7	58.6
7	58.9	58.9
8	↓ .6	58.6
9	↓ .5	58.7

(29)

L U

1	59.1	59.1
2	58.9	58.7
3	58.8	58.7
4	59.0	59.0
5	58.6	58.6
6	58.6	58.8
7	58.0	59.0
8	58.6	58.6
9	58.6	58.5

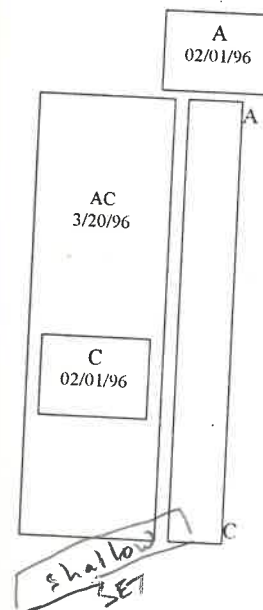
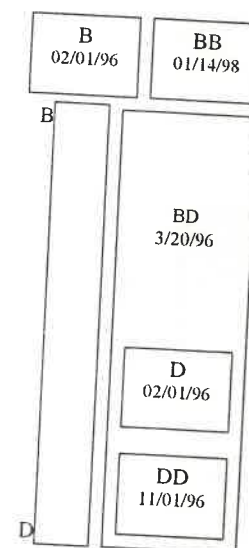
(25) no

U

1	58.7
2	58.7
3	58.5
4	59.7
5	58.6
6	58.8
7	58.5
8	58.6
9	58.8

Angle	Sin.	Tan.	Sec.	Cosec.	Cotg.	Cosin.	Angle	Sin.	Tan.	Sec.	Cosec.	Cotg.	Cosin.
32	.5299	.6249	1.1792	1.887	1.600	.84805	58	.39	.6293	.8098	1.2868	1.589	1.235
10	.5324	.6289	1.1813	1.878	1.590	.84650	50	10	.6316	.8146	1.2898	1.583	1.228
20	.5348	.6330	1.1835	1.870	1.580	.84495	40	20	.6338	.8195	1.2929	1.578	1.220
30	.5373	.6371	1.1857	1.861	1.570	.84339	30	30	.6361	.8243	1.2959	1.572	1.213
40	.5398	.6412	1.1879	1.853	1.560	.84182	20	40	.6383	.8292	1.2991	1.567	1.206
50	.5422	.6453	1.1901	1.844	1.550	.84025	10	50	.6406	.8342	1.3022	1.561	1.199
33	.5446	.6494	1.1924	1.836	1.540	.83867	57	40	.6428	.8391	1.3054	1.556	1.192
10	.5471	.6536	1.1946	1.828	1.530	.83708	50	10	.6450	.8441	1.3086	1.550	1.185
20	.5495	.6577	1.1969	1.820	1.520	.83549	40	20	.6472	.8491	1.3118	1.545	1.178
30	.5519	.6619	1.1992	1.812	1.511	.83389	30	30	.6494	.8541	1.3151	1.540	1.171
40	.5544	.6661	1.2015	1.804	1.501	.83228	20	40	.6517	.8591	1.3184	1.535	1.164
50	.5568	.6703	1.2039	1.796	1.492	.83066	10	50	.6539	.8642	1.3217	1.529	1.157
34	.5592	.6745	1.2062	1.788	1.483	.82904	56	41	.6561	.8693	1.3251	1.524	1.150
10	.5616	.6787	1.2086	1.781	1.473	.82741	50	10	.6583	.8744	1.3284	1.519	1.144
20	.5640	.6830	1.2110	1.773	1.464	.82577	40	20	.6604	.8796	1.3318	1.514	1.137
30	.5664	.6873	1.2134	1.766	1.455	.82413	30	30	.6626	.8847	1.3352	1.509	1.130
40	.5688	.6916	1.2158	1.758	1.446	.82248	20	40	.6648	.8899	1.3386	1.504	1.124
50	.5712	.6959	1.2183	1.751	1.437	.82082	10	50	.6670	.8952	1.3421	1.499	1.117
35	.5736	.7002	1.2208	1.743	1.428	.81915	55	42	.6691	.9004	1.3456	1.494	1.111
10	.5760	.7046	1.2233	1.736	1.419	.81748	50	10	.6713	.9057	1.3492	1.490	1.104
20	.5783	.7089	1.2258	1.729	1.411	.81580	40	20	.6734	.9110	1.3527	1.485	1.098
30	.5807	.7133	1.2283	1.722	1.402	.81412	30	30	.6756	.9163	1.3563	1.480	1.091
40	.5831	.7177	1.2309	1.715	1.393	.81242	20	40	.6777	.9217	1.3600	1.476	1.085
50	.5854	.7221	1.2335	1.708	1.385	.81072	10	50	.6799	.9271	1.3636	1.471	1.079
36	.5878	.7265	1.2361	1.701	1.376	.80902	54	43	.6820	.9325	1.3673	1.466	1.072
10	.5901	.7310	1.2387	1.695	1.368	.80730	50	10	.6841	.9380	1.3711	1.462	1.066
20	.5925	.7355	1.2413	1.688	1.360	.80558	40	20	.6862	.9435	1.3748	1.457	1.060
30	.5948	.7400	1.2440	1.681	1.351	.80386	30	30	.6884	.9490	1.3786	1.453	1.054
40	.5972	.7445	1.2466	1.675	1.343	.80212	20	40	.6905	.9545	1.3824	1.448	1.048
50	.5995	.7490	1.2494	1.668	1.335	.80038	10	50	.6926	.9601	1.3863	1.444	1.042
37	.6018	.7536	1.2521	1.662	1.327	.79864	53	44	.6947	.9657	1.3902	1.440	1.036
10	.6041	.7581	1.2549	1.655	1.319	.79688	50	10	.6967	.9713	1.3941	1.435	1.030
20	.6065	.7627	1.2577	1.649	1.311	.79512	40	20	.6988	.9770	1.3980	1.431	1.024
30	.6088	.7673	1.2605	1.643	1.303	.79335	30	30	.7009	.9827	1.4020	1.427	1.018
40	.6111	.7720	1.2633	1.636	1.295	.79158	20	40	.7030	.9884	1.4061	1.422	1.012
50	.6134	.7766	1.2661	1.630	1.288	.78980	10	50	.7050	.9942	1.4101	1.418	1.006
38	.6157	.7813	1.2690	1.624	1.280	.78801	52		.7071		1.414	1.414	1.
10	.6180	.7860	1.2719	1.618	1.272	.78622	50						
20	.6202	.7907	1.2748	1.612	1.265	.78442	40						
30	.6225	.7954	1.2778	1.606	1.257	.78261	30						
40	.6248	.8002	1.2808	1.601	1.250	.78079	20						
50	.6271	.8050	1.2838	1.595	1.242	.77897	10						
Cosin. Cotg. Cosec. Sec. Tan. Sin. Angle							Cosin. Cotg. Cosec. Sec. Tan. Sin. Angle						

Station I—Apalachicola River

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Station 2—Apalachicola River

