South Lake Worth (Boynton) Inlet - Feasibility Study
Matrix of Solutions (Physical and Management)

		Ranking Criteria (Scale 0 to 6: 0 being highly unfavorable, 3 being neutral or no change, and 6 being highly favorable)						
		Public Access/ Recreation	Environmental Impacts	Lagoon Water Quality Impacts	Navigation Safety	Surge Effects	*Total Points*	*Ranking (1-14)*
	Physical (Structural) Options:							
	Inlet							
	Status Quo	4.1	4.1	3.0	3.2	4.4	*18.7*	*1*
Alternatives 1-6 **without** ebb shoal dredging	*Alt 1 - Inlet Deepening (5')*	3.1	1.8	2.0	1.6	1.8	*10.2*	*8/9*
	Alt 2 - Inlet Deepening (10')	2.9	1.6	1.8	1.4	1.3	*9.1*	*10*
	Alt 3 - Inlet Widening (50' w/10' deepening)	2.0	1.8	2.6	2.5	1.3	*10.2*	*8/9*
	Alt 4 - Inlet Widening (200' w/out deepening)	0.7	0.9	2.3	2.7	0.8	*7.4*	*12*
	Alt 5 - Inlet Widening (200' w/10' deepening)	0.8	0.9	2.0	2.4	0.7	*6.8*	*13*
	*Alt 6 - Shift in South Jetty (50')**	3.3	3.1	3.2	3.4	3.1	*16.1*	*2*
Stand Alone	*Alt 7 - Maintenance Dredging of Ebb Shoal Ch.*	3.3	2.9	2.2	3.3	2.7	*14.4*	*4*
Alternatives 1-6 **with** ebb shoal dredging	*Alt 1 - Inlet Deepening (5')*	3.1	1.9	1.9	2.1	1.5	*10.4*	*7*
	Alt 2 - Inlet Deepening (10')	3.3	2.2	2.4	2.6	1.6	*12.1*	*5*
	Alt 3 - Inlet Widening (50' w/10' deepening)	1.8	1.7	2.7	3.1	1.2	*10.5*	*6*
	Alt 4 - Inlet Widening (200' w/out deepening)	0.7	0.9	2.5	2.7	0.7	*7.6*	*11*
	Alt 5 - Inlet Widening (200' w/10' deepening)	0.7	0.9	2.1	2.4	0.6	*6.7*	*14*
	*Alt 6 - Shift in South Jetty (50')**	3.2	2.9	2.6	3.0	3.0	*14.7*	*3*

Source of rankings from average of steering committee entries as tabulated in "Averaging Tables" spreadsheet tab by ATM on December 15, 2008.

* - *Southerly shift in south jetty structure seaward of bridge only.*

AVERAGING TABLE (Dec. 12, 2008 Inlet Steering Committee Rankings)

Ranking Criteria (Scale 0 to 6: 0 being highly unfavorable, 3 being neutral or no change, and 6 being highly favorable) NV - No Value Assigned

PUBLIC ACCESS/RECREATION

	GD	CF	JJ	KS	TG	TW	JT	GP	HK	JL	KB	MB	
status quo	6	6	NV	6	6	0	0	6	0	6	3	6	4.1
w/shoal dredging													
Alt 1	6	0	NV	4	6	6	0	0	3	0	3	6	3.1
Alt 2	5	0	NV	3	6	4	6	0	3	0	3	6	3.3
Alt 3	0	0	NV	2	3	2	6	0	1	0	1	5	1.8
Alt 4	0	0	NV	0	2	0	4	0	1	0	1	0	0.7
Alt 5	0	0	NV	0	2	0	4	0	1	0	1	0	0.7
Alt 6	0	0	NV	4	6	4	3	3	1	5	3	6	3.2
Stand Alone													
Alt 7 - Maintenance Dredging of Ebb Shoal													
		0	NV	NV	6	6	3	3	3	3	0	6	3.3
w/out shoal dredging													
Alt 1	6	0	6	4	6	3	0	0	3	0	3	6	3.1
Alt 2	5	0	6	4	6	2	0	0	3	0	3	6	2.9
Alt 3	0	0	5	2	3	1	6	0	1	0	1	5	2.0
Alt 4	0	0	0	0	2	0	4	0	1	0	1	0	0.7
Alt 5	0	0	0	0	3	0	4	0	1	0	1	0	0.8
Alt 6	0	4	5	3	4	3	3	3	1	5	3	6	3.3

ENVIRONMENTAL IMPACTS

	GD	CF	JJ	KS	TG	TW	JT	GP	HK	JL	KB	MB	
status quo	6	6	NV	6	6	0	0	6	0	6	3	6	4.1
w/shoal dredging													
Alt 1	6	0	NV	4	2	4	0	0	2	0	3	0	1.9
Alt 2	5	0	NV	3	2	3	6	0	2	0	3	0	2.2
Alt 3	4	0	NV	2	2	2	6	0	2	0	1	0	1.7
Alt 4	0	0	NV	0	2	1	4	0	2	0	1	0	0.9
Alt 5	0	0	NV	0	2	1	4	0	2	0	1	0	0.9
Alt 6	0	0	NV	4	2	4	3	3	3	5	3	5	2.9
Stand Alone													
Alt 7 - Maintenance Dredging of Ebb Shoal													
		0	NV	NV	2	6	3	3	3	3	0	6	2.9
w/out shoal dredging													
Alt 1	6	0	2	3	2	3	0	0	2	0	3	0	1.8
Alt 2	5	0	2	3	2	2	0	0	2	0	3	0	1.6
Alt 3	4	0	3	2	2	1	6	0	2	0	1	0	1.8
Alt 4	0	0	2	0	2	0	4	0	2	0	1	0	0.9
Alt 5	0	0	2	0	2	0	4	0	2	0	1	0	0.9
Alt 6	0	3	2	3	2	5	3	3	3	5	3	5	3.1

LAGOON WATER QUALITY IMPACTS

	GD	CF	JJ	KS	TG	TW	JT	GP	HK	JL	KB	MB	
status quo	6	6	NV	6	2	0	0	6	0	6	1	0	3.0
w/shoal dredging													
Alt 1	2	0	NV	4	4	NV	0	0	2	0	4	3	1.9
Alt 2	2	0	NV	3	4	NV	6	0	2	0	4	3	2.4
Alt 3	3	0	NV	2	4	NV	6	0	4	0	4	4	2.7
Alt 4	4	0	NV	0	4	NV	4	0	4	0	4	5	2.5
Alt 5	0	0	NV	0	4	NV	4	0	4	0	4	5	2.1
Alt 6	0	0	NV	4	5	NV	3	3	3	5	3	0	2.6
Stand Alone													
Alt 7 - Maintenance Dredging of Ebb Shoal													
		0	NV	NV	3	5	3	3	3	3	0	0	2.2
Alt 1	2	0	4	4	2	3	0	0	2	0	4	3	2.0
Alt 2	2	0	4	3	2	2	0	0	2	0	4	3	1.8
Alt 3	3	0	4	2	3	1	6	0	4	0	4	4	2.6
Alt 4	4	0	4	0	3	0	4	0	4	0	4	5	2.3
Alt 5	0	0	4	0	3	0	4	0	4	0	4	5	2.0
Alt 6	0	6	4	4	3	4	3	3	3	5	3	0	3.2

NAVIGATION SAFETY

	GD	CF	JJ	KS	TG	TW	JT	GP	HK	JL	KB	MB	
status quo	6	6	NV	6	3	0	0	6	0	6	0	2	3.2
w/shoal dredging													
Alt 1	0	0	NV	4	5	4	0	0	2	0	4	4	2.1
Alt 2	0	0	NV	3	5	4	6	0	2	0	4	5	2.6
Alt 3	4	0	NV	2	6	3	6	0	4	0	4	5	3.1
Alt 4	5	0	NV	0	6	2	4	0	2	0	5	6	2.7
Alt 5	0	0	NV	0	6	1	4	0	4	0	5	6	2.4
Alt 6	0	0	NV	4	4	3	3	3	3	5	4	4	3.0
Stand Alone													
Alt 7 - Maintenance Dredging of Ebb Shoal													
		0	NV	NV	6	6	3	3	3	3	0	6	3.3
w/out shoal dredging													
Alt 1	0	0	3	4	3	3	0	0	2	0	4	0	1.6
Alt 2	0	0	3	3	3	2	0	0	2	0	4	0	1.4
Alt 3	4	0	3	2	4	1	6	0	4	0	4	2	2.5
Alt 4	5	0	4	0	6	0	4	0	2	0	5	6	2.7
Alt 5	0	0	4	0	6	0	4	0	4	0	5	6	2.4
Alt 6	0	6	3	4	4	3	3	3	3	5	4	3	3.4

	SURGE EFFECTS												
	GD	CF	JJ	KS	TG	TW	JT	GP	HK	JL	KB	MB	
status quo	6	6	NV	6	6	0	0	6	3	6	3	6	4.4
w/shoal dredging													
Alt 1	0	0	NV	4	0	2	0	0	6	0	2	2	1.5
Alt 2	0	0	NV	3	0	1	6	0	4	0	2	2	1.6
Alt 3	0	0	NV	2	0	1	6	0	1	0	2	1	1.2
Alt 4	0	0	NV	0	0	0	4	0	1	0	2	1	0.7
Alt 5	0	0	NV	0	0	0	4	0	1	0	2	0	0.6
Alt 6	0	0	NV	4	0	3	3	3	6	5	3	6	3.0
Stand Alone													
Alt 7 - Maintenance Dredging of Ebb Shoal													
		0	NV	NV	0	6	3	3	3	3	0	6	2.7
w/out shoal dredging													
Alt 1	0	0	3	4	0	4	0	0	6	0	2	2	1.8
Alt 2	0	0	2	3	0	3	0	0	4	0	2	2	1.3
Alt 3	0	0	2	2	0	2	6	0	1	0	2	1	1.3
Alt 4	0	0	1	0	0	1	4	0	1	0	2	1	0.8
Alt 5	0	0	0	0	0	1	4	0	1	0	2	0	0.7
Alt 6	0	6	3	4	0	4	3	3	0	5	3	6	3.1