

Dredging Inspection Field Report

Site Observations

Date: 9/22/20	<u>21</u> F	ield Engineer:	Mike Triano	
Weather Conditions:	Breezy, Overcast		Temperature:	80s
Wood Project Number:	2402210005.01.01	Client: <u>Isle</u>	of Palms	
Contractor: <u>Branch D</u>	iversified (BDI)	Foreman Onsit	e: <u>Brett Tucker</u>	
Item	Observations			Photo
Crew Size & Location	**All Barges are located in t 30' x 80' barge, moored off to intracoastal. The 30' X 80' Barges 50' X 100'+ Hopper barge is u Barges are located east of Basges One 20' Wide push barge acti One 20' Wide push barge acti 26' Thruster Barge actively drea Two Tugs pushing 20' Wide bound large tug moving large Hone additional 30' X 80' "MD- staged near the mouth of Basge 20' aluminum boat used to tra	o the large ~ 50' X or ge is used to unload used to transport modeline 1 in the Intractively dredging Based ively dredging Based edging baseline 1 arges back and for Hopper barges to the 180" Barge utilized seline 1 in the intractions.	100'+ Hopper barge in the aid the smaller barges. The ~ naterial to DMMA. Both coastal: Southern IOP. eline 4 eline 2 th from Baseline 1 and 2. ne DMMA to off-load smaller barges coastal.	Photo: 1, 2, 3, & 8 See Map
Equipment on Site	Same as Crew size, 3 mechani	ical dredges (excav	ators)	Photos: 1, 2, 3, 5, 7 & 7
Work Completed	Majority of Northern IOP Can Portions of Baseline 1, 2, 4 an BDI advised dredging occurs removal of top layer of sedim specified grade. This is true for	d 5 Southern IOP C in two phases: on t ent and on the way	he way in for access & y out for getting canal to	See Map
Work Underway	Actively Dredging Baseline 1,	2 & 4 South IOP.		See Map
Materials on Site	Stored in ~100'+ X 50' Hoppe barges are moored in the intr	-	_	Photo: 5 & 7
Manatee Observer	All crew on barges were advis posted on northern and south		t for Manatees - signs	Photos: 4
Turbidity Monitoring	Background Reading: 12.5 NT Monitoring Samples were not to be collected every 4 hours.	collected. Advised	d monitoring samples need	Photos: 6





Dewatering	Lance advised dewatering does not occur - drain holes are located in bottom of containers. Lance advised inner canals are mixing zones and therefore sediment/water returning to canals are not of concern.	
Dredging	Mechanical	
Offloading Location	Large ~50' -100'+ Hopper barge and 30' X 80' "MD-80" Barge – east of Baseline 1: Southern IOP. Angel advised that trips to Reed Island DMMA are taken once these large bargesare full, that usually occurs once a day.	Photo: 5 & 7
Posted Permit	Permits are not posted. BDI was provided with additional copies.	
Other	See Additional Comments Below	

^{*}BDI will return to Canals to clean up survey identified high spots

Additional Notes

Projected Schedule:

- Brett Tucker indicated that Baselines 1, 2, 3, 4, and 5 in the southern IOP canals will be focus for the next month.
- Brett Tucker indicated that all barges are encouraged to produce 5 to 6 loads per day, putting the tentative completion date around Mid-November.

Anticipated Obstacles to Meeting Schedule:

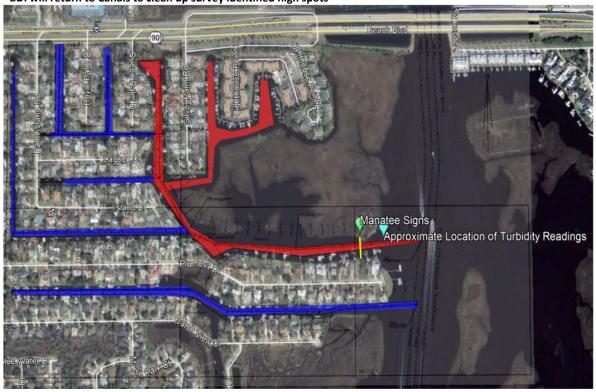
- Equipment malfunctioning / no operator to dig / Barges at Idle.
- Narrow spots in the canals between boat docks.
- Displaced material causing contractor to re-work areas to correct high spots.

Engineer's Notes:

- MD-80 Barge is utilized as an off-loading point during the day and is emptied into the larger Hopper barges in the evenings to cut off-loading time and reach the 5 to 6 load goal.
- Material in the southern canals contains organic matter (tree limbs/trunks) as well as sand and clay.
- Tuesday (9/21), the large tug Ol' Glory was fixed and able to move full Hopper barges to DMMA again.

Field Engineer Signature:	Marie & B
Data: 0/22/2021	

Maps: Red is completed Work Blue is Work to be completed *BDI will return to Canals to clean up survey identified high spots





Photograph Log:



Photo 1: View of 20' Wide Push Barge located in Baseline 4: Southern IOP



Photo 2: View of 26' Thruster Barge located in Baseline 1: Southern IOP.



Photo 3: View of 20' Wide Push Barge located in Baseline 2: Southern IOP



Photo 4: Typical view towards mouth of Baseline 1: Southern IOP. Manatee Signs and Turbidity Curtain visible in the distance.



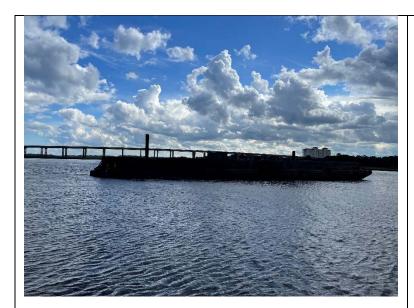


Photo 5: "MD - 80" 30' X 80' Barge utilized to off-load smaller barges staged near the mouth of Baseline 1 in the intracoastal.

DATE: 9/22/21	TIME: 9:00 ₽	MACHINE: 21000 HACI	TURBIDITY METER
1. WEATHER AND WA Atmospheric Conditions:			
1. WEATHER AND WA	TER OBSERVATIO	NS:	
Authosphieric Conditions:	Wind Direction:	W E N	6
	Wind Direction.	W, E, N NW, NE, SV	y SF
	Weather Condition	Rain, Clear	, Cloudy
Water Conditions:			
	Tide Stage:	Low Medium_ C	High
	Water Current:		
	Water Direction to:	W, E, N	, S, SE
		NW, NE, SV	/, SE
	Harbor seas:		no waves)
		Rough (waves	s 1' to 2' high)
2. BACKGROUND SAMP	LES:		
2. BACKGROUND SAMP Location Taken: ショルト	Surface	Time of Sample: 4:60 A	Date: 9/22/2/
Location Taken: South	Surface Sample		
Sample No:	Surface Sample	Mid-Depth	Bottom
Analysis Date:	Surface Sample 26405	Mid-Depth	Bottom
Sample No: Analysis Date: Analysis Time:	Surface Sample 26400 9122/21	Mid-Depth	Bottom
Sample No: Analysis Date:	Surface Sample 26405	Mid-Depth	Bottom
Sample No: Analysis Date: Analysis Time: Turbidity (NTU)	Surface Sample 26400 9122/21	Mid-Depth	Bottom
Sample No: Analysis Date: Analysis Time: Turbidity (NTU) Comments (if any): 3. MONITORING SAMPL	Surface Sample Surface	Mid-Depth Sample	Bottom Sample
Sample No: Analysis Date: Analysis Time: Turbidity (NTU) Comments (if any): 3. MONITORING SAMPL	Surface Sample Surface Sample Surface Plantum	Mid-Depth Sample	Bottom Sample
Sample No: Analysis Date: Analysis Time: Turbidity (NTU) Comments (if any): 3. MONITORING SAMPL	Surface Sample 2.6.4-0.0 4 2.4.7-1 4 50.0.0 1 2.5 ES (taken every 4 h	Mid-Depth Sample ours): Time of Sample: Mid-Depth	Bottom Sample
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Photo 6: 9/22/2021 Turbidity Form.

Note: Monitoring Sample was not recorded.



Photo 7: View towards large Hopper Barge staged east of the South IOP canals.



Photo 8: Additional Photo of Baseline 1 and Baseline 2 in South IOP. Both 26' Thruster and 20' Push Barges visible in background.