

LBFH

Lindahl, Browning, Ferrari & Hellstrom, Inc.

DATE: September 29, 1995

TO: Wade Diekman Via FAX (407) 286-1139 (1 page)

FROM: Joseph R. Rossano 

SUBJECT: North River Shores-Maintenance Dredging

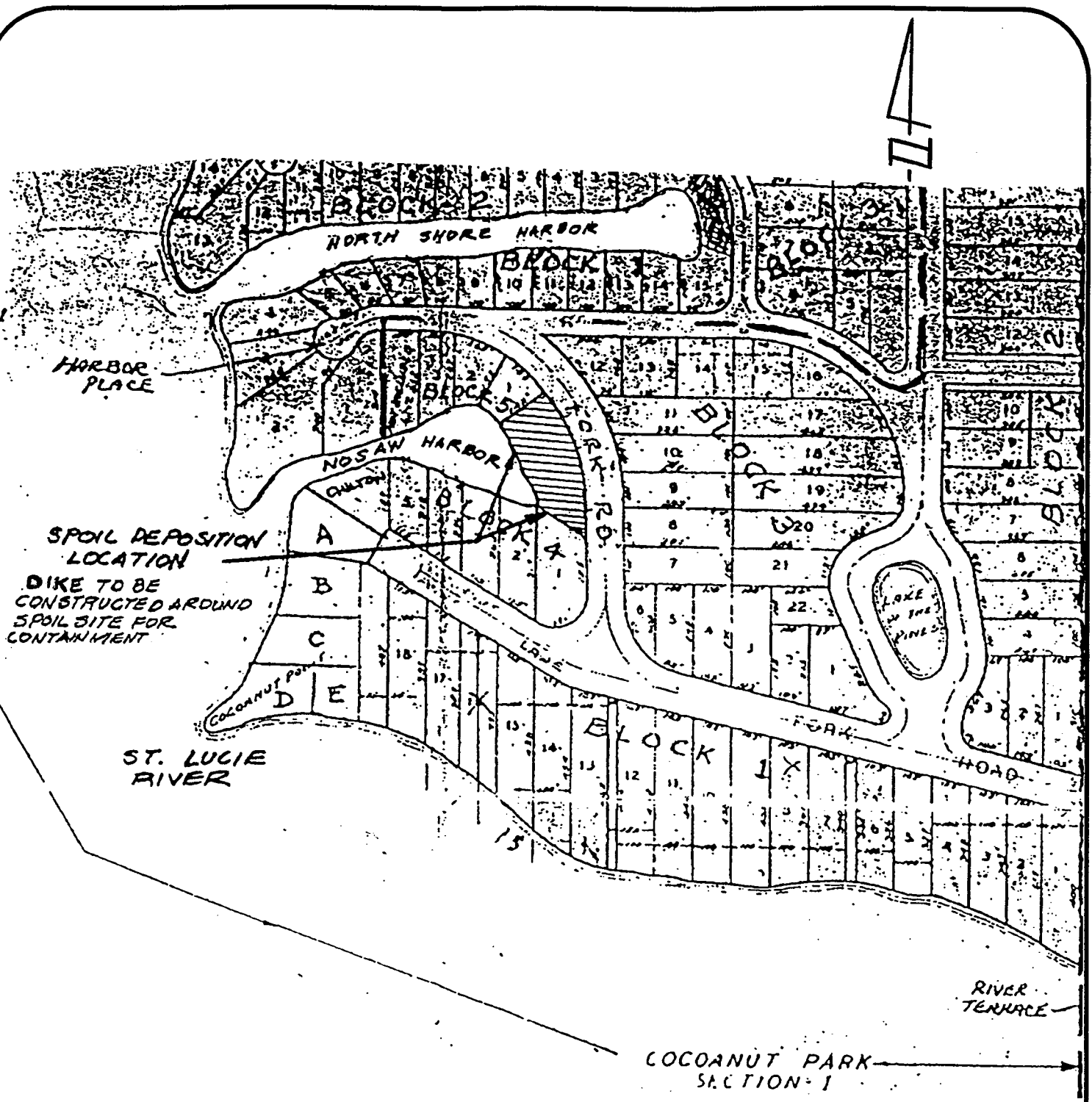
Enclosed are the following items for your review and comment:

1. Spoil site location plan on Nosaw Harbor (partial Item 5).
2. Soil sampling logs, sieve analysis, organic content tests (Item 3 and hydrographic Item 1).
3. Sedimentation Control Plan including perimeter berm, control structure, and, turbidity barrier detail (Item 4).

We can make any necessary revisions on or before Monday, October 2, 1995. Please call if there are any questions or comments.

JRR/jrr

P:\95-0274\W3.WPD



LOCATION MAP

N.T.S.

APPLICANT: Property Owners Association
 WATER BODY: NOSAW HARBOR
 COUNTY: Martin
 DATUM: Assumed

PURPOSE: _____
 ORIGINAL WORK: MAINTENANCE:
 SHEET NUMBER: _____ OF _____
 DATE: 9-20-95



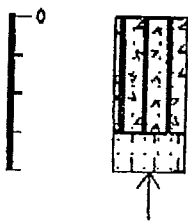
Post-It™ brand fax transmittal memo 7671	# of pages = 11
To: Mr. Rossano	From: John Donahy
Co. Ltr. H	Co. Ardawan
Dept.	Phone # 3371200

SOIL SAMPLING LOG

BORING Sample 1

PROJECT: North River Shores Dredging Project
 BORING NO.: Sample 1
 BORING LOCATION: Site #1 - Nosaw Harbor
 DEPTH TO WATER TABLE: N/A
 DRILLER: Blue Water Marine Construction

FILE NO.: 95-5710
 DATE: 9-21-95
 ELEV.: N/A
 DATE CHECKED: 9-21-95

ELEVATION	SOIL SYMBOLS SAMPLER SYMBOLS AND FIELD TEST DATA	USCS	SOIL DESCRIPTION
DEPTH			
0		SM	DARK BROWN SILTY FINE SAND WITH TRACES OF SHELL FRAGMENTS
		SP/ SM	BROWN SLIGHTLY SILTY FINE SAND WITH TRACES OF ORGANICS

SAMPLE TERMINATED AT A DEPTH OF 2 FEET BELOW BAY BOTTOM

SOIL SAMPLING LOG

BORING Sample 2

PROJECT: North River Shores Dredging Project

FILE NO.: 95-5710

BORING NO.: Sample 2

DATE: 9-21-95

BORING LOCATION: Site #2 - North Shore Harbor

ELEV.: N/A

DEPTH TO WATER TABLE: N/A

DATE CHECKED: 9-21-95

DRILLER: Blue Water Marine Construction

ELEVATION	SOIL SYMBOLS SAMPLER SYMBOLS AND FIELD TEST DATA	USCS	SOIL DESCRIPTION
DEPTH			
<div style="display: flex; align-items: center;"> <div style="margin-right: 10px;"> <p>0</p> </div> <div style="border: 1px solid black; padding: 5px; width: 40px; height: 80px; display: flex; flex-direction: column; align-items: center;"> <div style="margin-bottom: 5px;"> </div> <div style="margin-bottom: 5px;"> </div> <div style="margin-bottom: 5px;"> </div> <div style="margin-top: 5px;"> </div> </div> </div>	<div style="display: flex; flex-direction: column; gap: 5px;"> <div style="display: flex; align-items: center;"> <div style="width: 20px; height: 20px; border: 1px solid black; margin-right: 5px;"></div> <div>SP/SM</div> </div> <div style="display: flex; align-items: center;"> <div style="width: 20px; height: 20px; border: 1px solid black; margin-right: 5px;"></div> <div>SP</div> </div> <div style="display: flex; align-items: center;"> <div style="width: 20px; height: 20px; border: 1px solid black; margin-right: 5px;"></div> <div>SP</div> </div> </div>	<div style="display: flex; flex-direction: column; gap: 5px;"> <div style="border-bottom: 1px dashed black; padding-bottom: 5px;">BROWN SLIGHTLY SILTY FINE SAND WITH SHELL FRAGMENTS</div> <div style="border-bottom: 1px dashed black; padding-bottom: 5px;">BROWN FINE SAND WITH TRACES OF SHELL FRAGMENTS</div> <div style="padding-bottom: 5px;">LIGHT GRAY FINE SAND WITH TRACES OF SHELL FRAGMENTS</div> </div>	

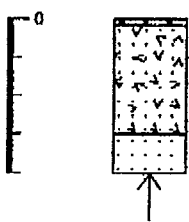
SAMPLE TERMINATED AT A DEPTH OF 2 FEET BELOW BAY BOTTOM

SOIL SAMPLING LOG

BORING Sample 3

PROJECT: North River Shores Dredging Project
 BORING NO.: Sample 3
 BORING LOCATION: Site #3 - Citadel Bay
 DEPTH TO WATER TABLE: N/A
 DRILLER: Blue Water Marine Construction

FILE NO.: 95-5710
 DATE: 9-21-95
 ELEV.: N/A
 DATE CHECKED: 9-21-95

ELEVATION	SOIL SYMBOLS SAMPLER SYMBOLS AND FIELD TEST DATA	USCS	SOIL DESCRIPTION
DEPTH			
0		ML SP SP	SILT LIGHT BROWN FINE SAND WITH SHELL FRAGMENTS LIGHT BROWN FINE SAND

SAMPLE TERMINATED AT A DEPTH OF 2 FEET BELOW BAY BOTTOM

SOIL SAMPLING LOG

BORING Sample 4

PROJECT: North River Shores Dredging Project
 BORING NO.: Sample 4
 BORING LOCATION: Site #4 - Santa Lucia Cove
 DEPTH TO WATER TABLE: N/A
 DRILLER: Blue Water Marine Construction

FILE NO.: 95-5710
 DATE: 9-21-95
 ELEV.: N/A
 DATE CHECKED: 9-21-95

ELEVATION	SOIL SYMBOLS SAMPLER SYMBOLS AND FIELD TEST DATA	USCS	SOIL DESCRIPTION
DEPTH			
0		SP	LIGHT BROWN FINE SAND WITH SHELL FRAGMENTS
		SP	LIGHT BROWN FINE SAND
		SP	BROWN FINE SAND
		SC	BROWN CLAYEY FINE SAND

SAMPLE TERMINATED AT A DEPTH OF 2 FEET BELOW BAY BOTTOM

Legend:

Symbol: Description:



SLIGHTLY SILTY FINE SAND



FINE SAND
WITH SHELL FRAGMENTS



FINE SAND



Water measured on
data indicated

Symbol: Description:



SLIGHTLY SILTY FINE SAND
WITH SHELL FRAGMENTS



SILT



CLAYEY FINE SAND



End of boring

Notes:

1. The soil boring logs represent our interpretation of the field boring logs and the laboratory examinations of the recovered samples by a geotechnical engineer. The stratification lines represent the approximate boundary between soil types.
2. The soil boring logs represent the soil conditions at the specific locations and depths indicated. They do not reflect any variations which may occur adjacent to or between borings. Variations are characteristic of the soils in the region and should be expected.
3. Boring locations are approximate and were located in the field by measuring from existing features or property boundaries.
4. These boring logs are subject to the limitations, conclusions, and recommendations in this report. They are not to be used for purposes other than those indicated in the report.

SIEVE ANALYSIS RESULTS
NORTH RIVER SHORES DREDGING PROJECT
LINDAHL, BROWNING, FERRARI & HELLSTROM, INC.
File No. 95-5710

Sample No. 1-Composite
Date Sampled: September 21, 1995
Sampled By: Blue Water Marine Construction
Tested By: D. Summerlin
Date Tested: September 28, 1995

U.S. Sieve Size	Percent Retained	Percent Passing
3/4 "	2.2	97.8
3/8 "	2.5	97.5
#4	3.3	96.7
#10	4.9	95.1
#20	7.0	93.0
#40	11.2	88.8
#60	27.0	73.0
#100	53.3	46.7
#140	75.6	24.4
#200	81.1	18.9

SIEVE ANALYSIS RESULTS
NORTH RIVER SHORES DREDGING PROJECT
LINDAHL, BROWNING, FERRARI & HELLSTROM, INC.
File No. 95-5710

Sample No. 2-Composite
Date Sampled: September 21, 1995
Sampled By: Blue Water Marine Construction
Tested By: D. Summerlin
Date Tested: September 28, 1995

U.S. Sieve Size	Percent Retained	Percent Passing
3/4 "	0.4	99.6
3/8 "	0.4	99.6
#4	1.4	98.6
#10	4.0	96.0
#20	6.6	93.4
#40	12.3	87.7
#60	36.1	63.9
#100	72.8	27.2
#140	94.9	5.1
#200	98.2	1.8

SIEVE ANALYSIS RESULTS
NORTH RIVER SHORES DREDGING PROJECT
LINDAHL, BROWNING, FERRARI & HELLSTROM, INC.
File No. 95-5710

Sample No. 3-Composite
Date Sampled: September 21, 1995
Sampled By: Blue Water Marine Construction
Tested By: D. Summerlin
Date Tested: September 28, 1995

U.S. Sieve Size	Percent Retained	Percent Passing
3/4 "	0.3	99.7
3/8 "	0.5	99.5
#4	1.4	98.6
#10	5.3	94.7
#20	8.4	91.6
#40	18.8	81.2
#60	51.1	48.9
#100	77.1	22.9
#140	94.4	5.5
#200	97.4	2.6

SIEVE ANALYSIS RESULTS
NORTH RIVER SHORES DREDGING PROJECT
LINDAHL, BROWNING, FERRARI & HELLSTROM, INC.
File No. 95-5710

Sample No. 4-Composite
Date Sampled: September 21, 1995
Sampled By: Blue Water Marine Construction
Tested By: D. Summerlin
Date Tested: September 28, 1995

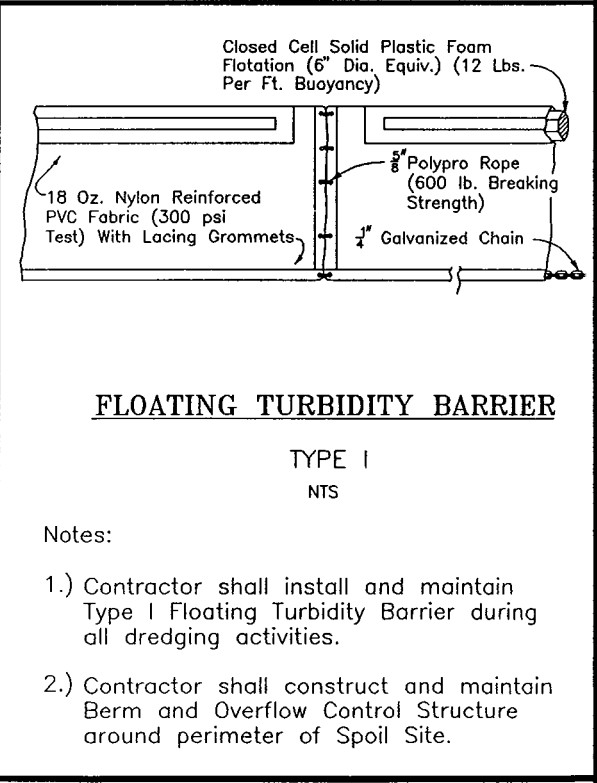
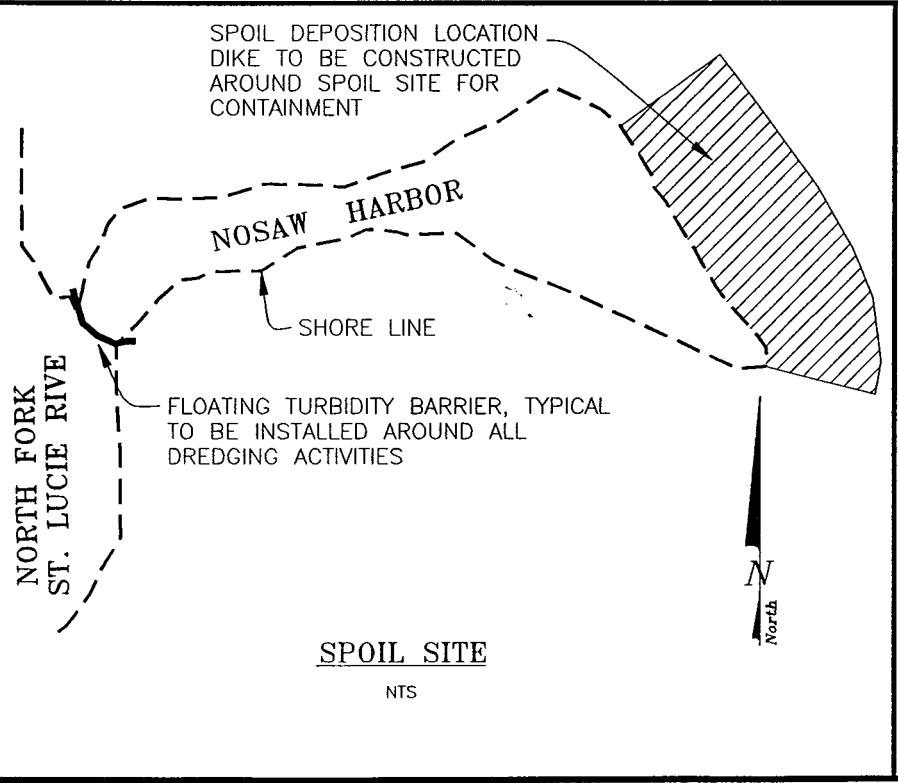
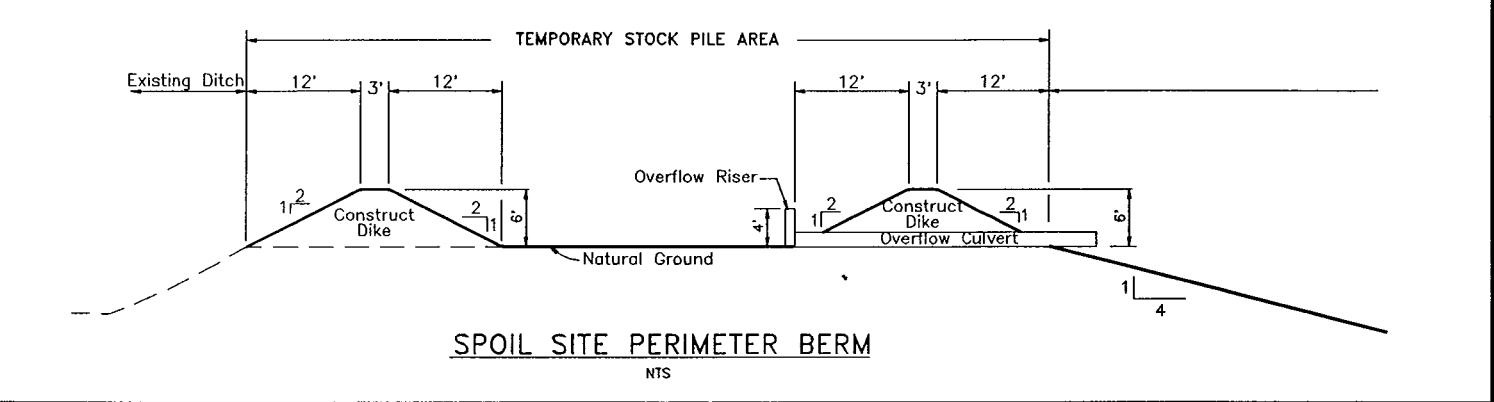
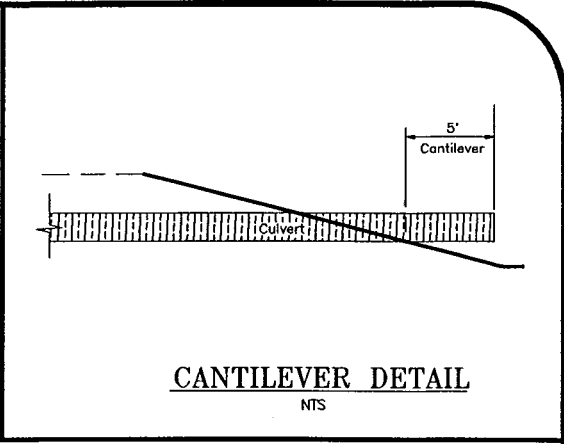
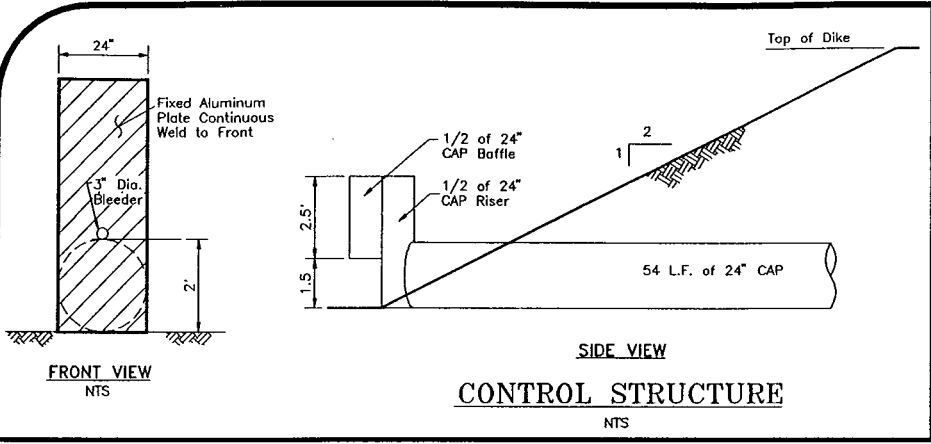
U.S. Sieve Size	Percent Retained	Percent Passing
3/4 "	0.1	99.9
3/8 "	0.2	99.8
#4	0.4	99.6
#10	1.0	99.0
#20	1.7	98.3
#40	14.2	85.8
#60	53.7	46.3
#100	77.4	22.6
#140	93.7	6.3
#200	96.6	3.4

ORGANIC CONTENT TEST RESULTS
NORTH RIVER SHORES DREDGING PROJECT
LINDAHL, BROWNING, FERRARI & HELLSTROM, INC.
File No. 95-5710

Composite Sample No.	Organic Content
1	7.6%
2	1.1%
3	0.1%
4	0.1%

**FINES CONTENT DETERMINATION RESULTS
NORTH RIVER SHORES DREDGING PROJECT
LINDAHL, BROWNING, FERRARI & HELLSTROM, INC.
File No. 95-5710**

Composite Sample No.	Fines Content
1	18.9%
2	1.8%
3	2.6%
4	3.4%



APPLICANT: NORTH RIVER SHORES Property Owners Association PURPOSE: DREDGING PERMIT

WATER BODY: NOSAW HARBOR ORIGINAL WORK: MAINTENANCE:

COUNTY: Martin SHEET NUMBER: _____ OF _____

DATUM: None DATE: 9-20-95