Findings of the Technical Review Panel
Jamaica Bay Borrow Pit Evaluation Project

Figures & Tables

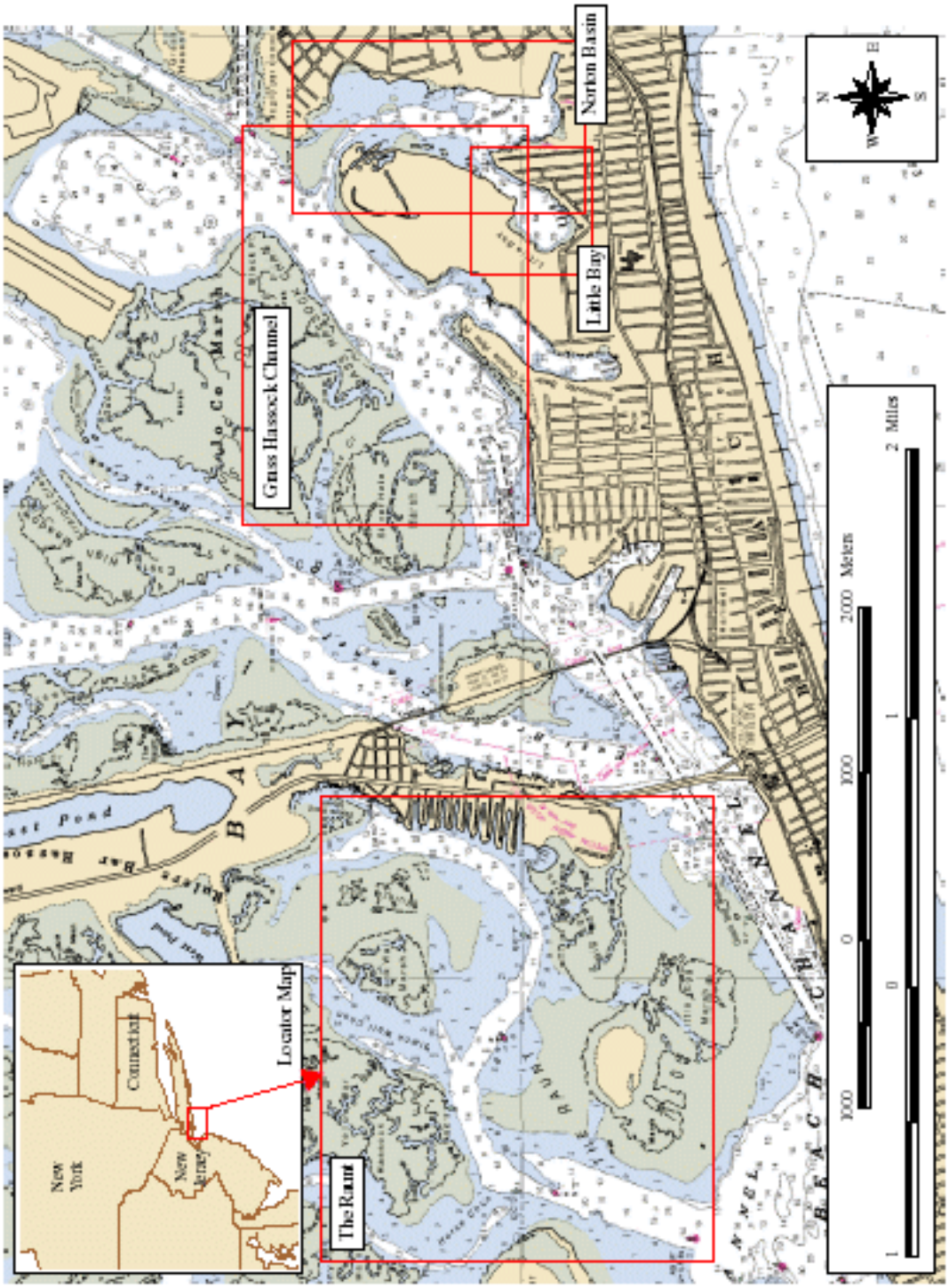

Figure 1: Study Area

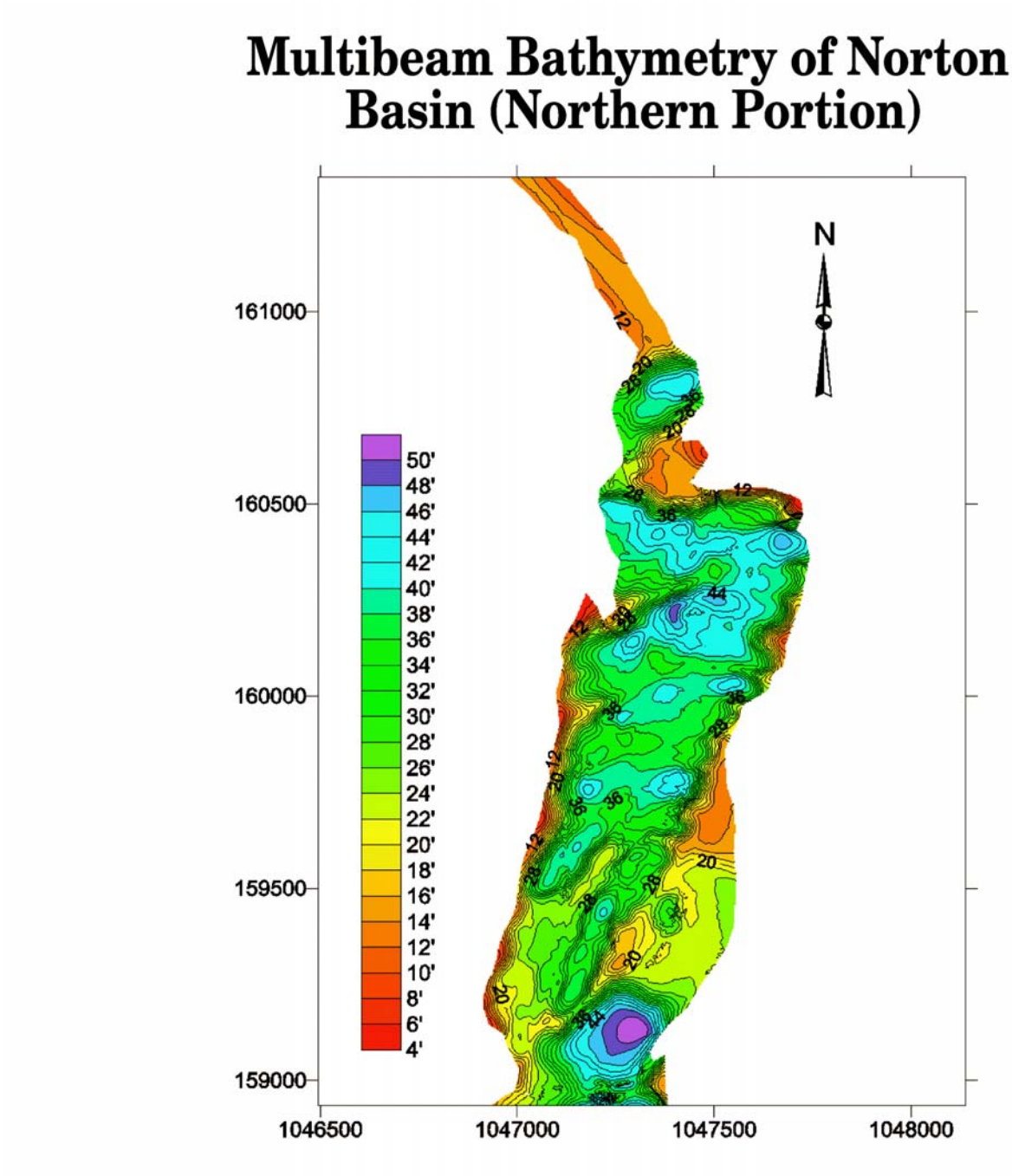
Multibeam Bathymetry of Norton Basin (Northern Portion)
N
50'
48'
46'
44'
42'
40'
38'
36'
34'
32'
30'
28'
26'
24'
22'
20'
18'
16'
14'
12'
10'
8'
6'
4'
161000
160500
160000
159500
159000
1046500
1047000
1047500
1048000

Figure 2 a.

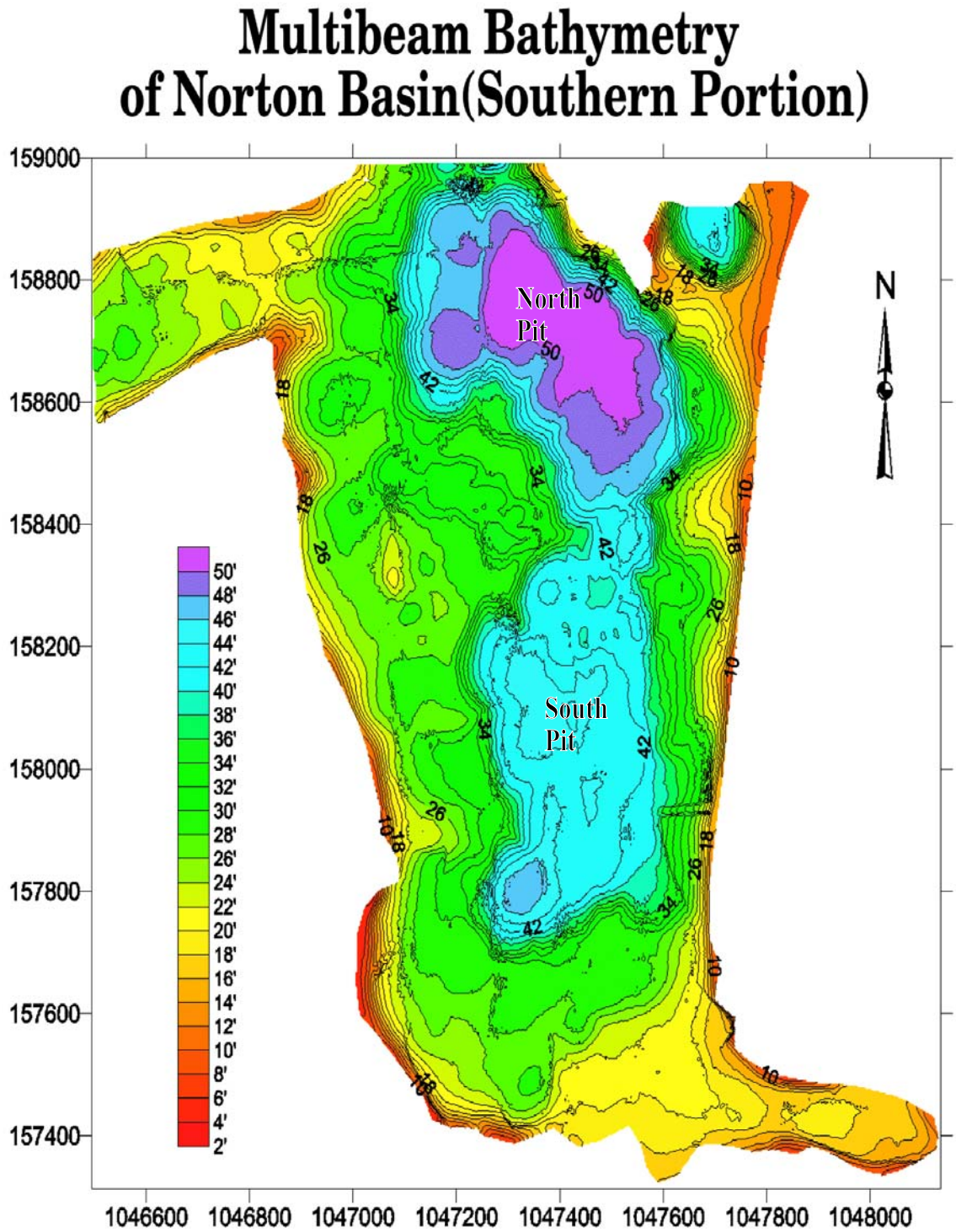
Multibeam Bathymetry
of Norton Basin(Southern Portion)
North
Pit
South
Pit
N
50'
48'
46'
44'
42'
40'
38'
36'
34'
32'
30'
28'
26'
24'
22'
20'
18'
16'
14'
12'
10'
8'
6'
4'
2'
159000
158800
158600
158400
158200
158000
157800
157600
157400
1046600
1046800
1047000
1047200
1047400
1047600
1047800
1048000

Figure 2 b.

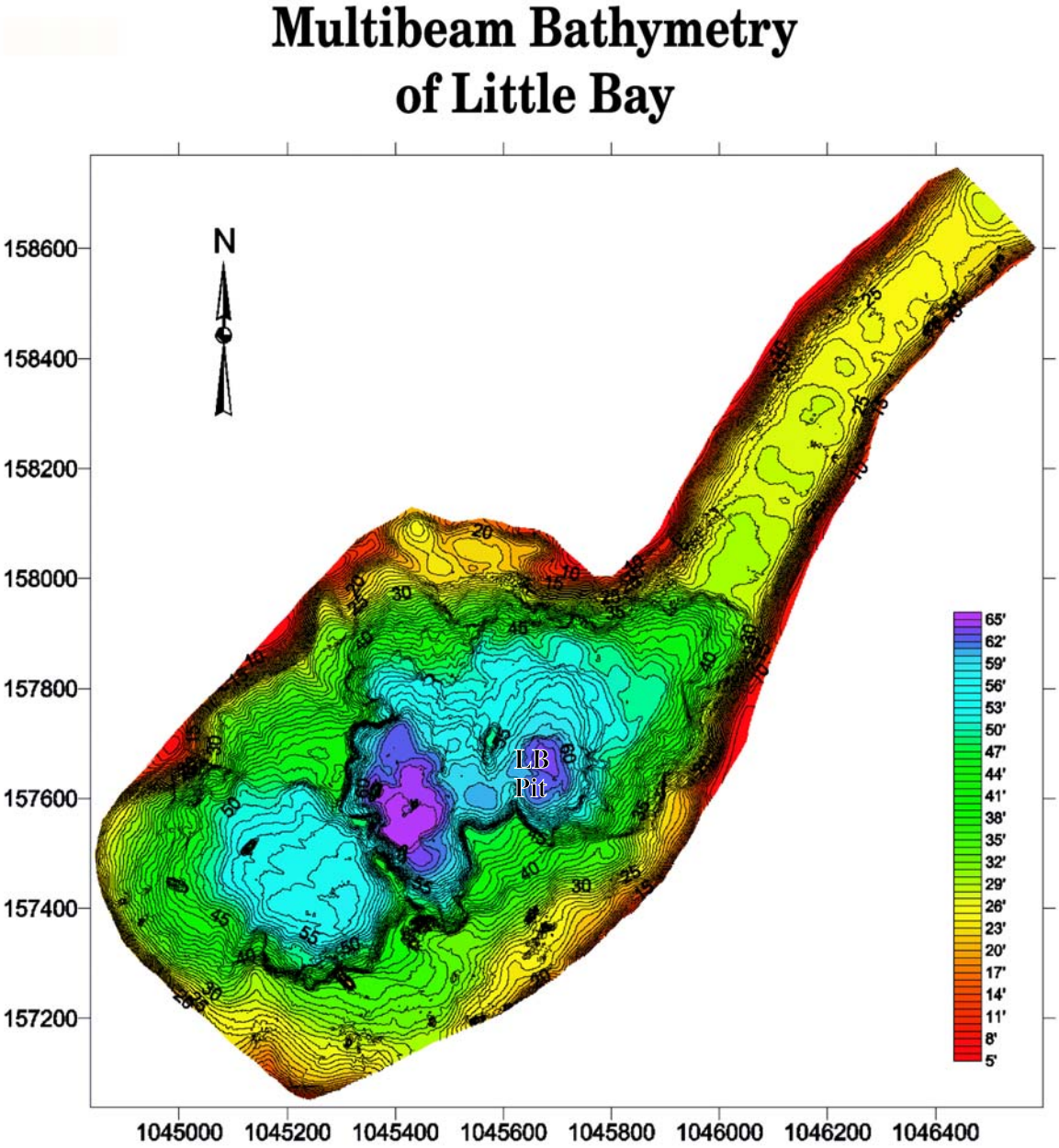
Multibeam Bathymetry
of Little Bay
N
LB
Pit
158600
158400
158200
158000
157800
157600
157400
157200
1045000
1045200
1045400
1045600
1045800
1046000
1046200
1046400
65'
62'
59'
56'
53'
50'
47'
44'
41'
38'
35'
32'
29'
26'
23'
20'
17'
14'
11'
8'
5'

Figure 2 c.

Table 1. Sediment Contaminant Comparison.
Indicates the number of samples that exceed the stated criteria.

Station	Raunt	Grass Hassock	Norton Basin Pit	Little Bay Pit
Criteria				
Class A	7	3	2	1
Class B	2	6	7	5
Class C	0	0	0	3
ER-L	5	7	7	3
ER-M	0	1	1	6

Table 2. Summary Matrix

STATION	Norton Basin Pit	Norton Basin Ref.	Little Bay Pit	Little Bay Ref.	Grass Hassock	The Raunt
PARAMETER						
I. Water Quality						
A. Dissolved Oxygen	< 3mg/l	> 3mg/l	<< 3mg/l	> 3mg/l	> 3mg/l	> 3mg/l
	>50% Occurrence		100% Occurrence		hypoxic on	
	June-October		Often Anoxic		4 occasions	
B. Temperature	Normal	Normal	< 5°˚C below 25'	Normal	Normal	Normal
C. Nutrients	Normal	Normal	Indicative of	Normal	Normal	Normal
			anaerobic conditions			
II. Sediment Quality						
A. Substrate Type	Fine	Mix	Fine	Fine	Mix	Mix
B. Contaminants	Low-Med	n/a	Med-Hi	n/a	Low-Med	Low
C. Bioaccumulation	low	n/a	low	n/a	low	n/a
D. Acute Toxicity	no failures	n/a	1 failure	n/a	no failures	n/a
III. Benthic Community						
Total Mean Density (ind. m^{-2})	20,000	40,000-110,000	<10	<5,000	140,000	80,000
Mean # of Taxa (2002)	17	17-46	<1	9	28	36
IV. Finfish Community						
A. Trawl Total Catch	2-28	n/a	n/a	n/a	0-175	1-85
B. Trawl CPUE (g/min)	17-438	n/a	n/a	n/a	0.4-856	0-205
C. Gill Net Total Catch						
i. Surface	3-98	19-359	0-178	9-271	21-42	44-124
ii. Mid-water	1-85		0-51		8-162	
iii. Bottom	23-439		0-1		18-158	12-217
D. Gill Net CPUE (g/hr)						
i. Surface	29-901	419-1767	0-769	152-325	27-1598	361-663
ii. Mid-water	85-899		0-454		148-4038	
iii. Bottom	270-3115		0-11		530-6400	574-2801