

Subpart 3-B

Mechanical Dredging Scenario

Table 3B-1

**Mechanical Dredging Scenario
Equipment-Specific Removal Volumes and Areas**

Table 3B-1
Mechanical Dredging Scenario:
Equipment-Specific Removal Volumes and Areas

River Section 1: Location	Volume By Production Equipment (cy)	Area By Production Equipment (Acres)	Volume By Alternative Equipment (cy)	Area By Alternative Equipment (Acres)	Total Volume Removed for Location (cy)
Around Rogers Island	64,517.44	13.53	12,743.09	2.97	77,260.53
RM 193.5 - 193.75	13,192.98	1.82	0.00	0.00	13,192.98
RM 192.5 - 193.5 E	121,403.00	28.07	1,580.95	0.35	122,983.95
RM 192.5 - 193.5 W	172,856.10	30.21	26,380.83	4.67	199,236.93
RM 191.5 - 192.5 E	164,834.90	27.81	65,057.10	11.86	229,892.00
RM 191.5 - 192.5 W	59,965.87	11.21	3,132.49	0.61	63,098.36
RM 190.5 - 191.5 E	107,927.00	21.44	2,206.59	0.45	110,133.59
RM 190.5 - 191.5 W	168,941.80	30.28	3,600.13	0.58	172,541.93
RM 189.5 - 190.5 E	144,987.70	22.33	4,143.31	0.86	149,131.01
RM 189.5 - 190.5 W	58,936.41	12.80	154,743.00	26.85	213,679.41
RM 188.5 - 189.5 E	127,949.90	17.22	13,046.96	2.70	140,996.86
RM 188.5 - 189.5 W	63,010.23	11.93	7,079.06	1.47	70,089.29
Total Volume (cy)	1,268,523.33		293,713.51		1,562,236.84
Total Area (Acres)		228.64		53.35	281.99

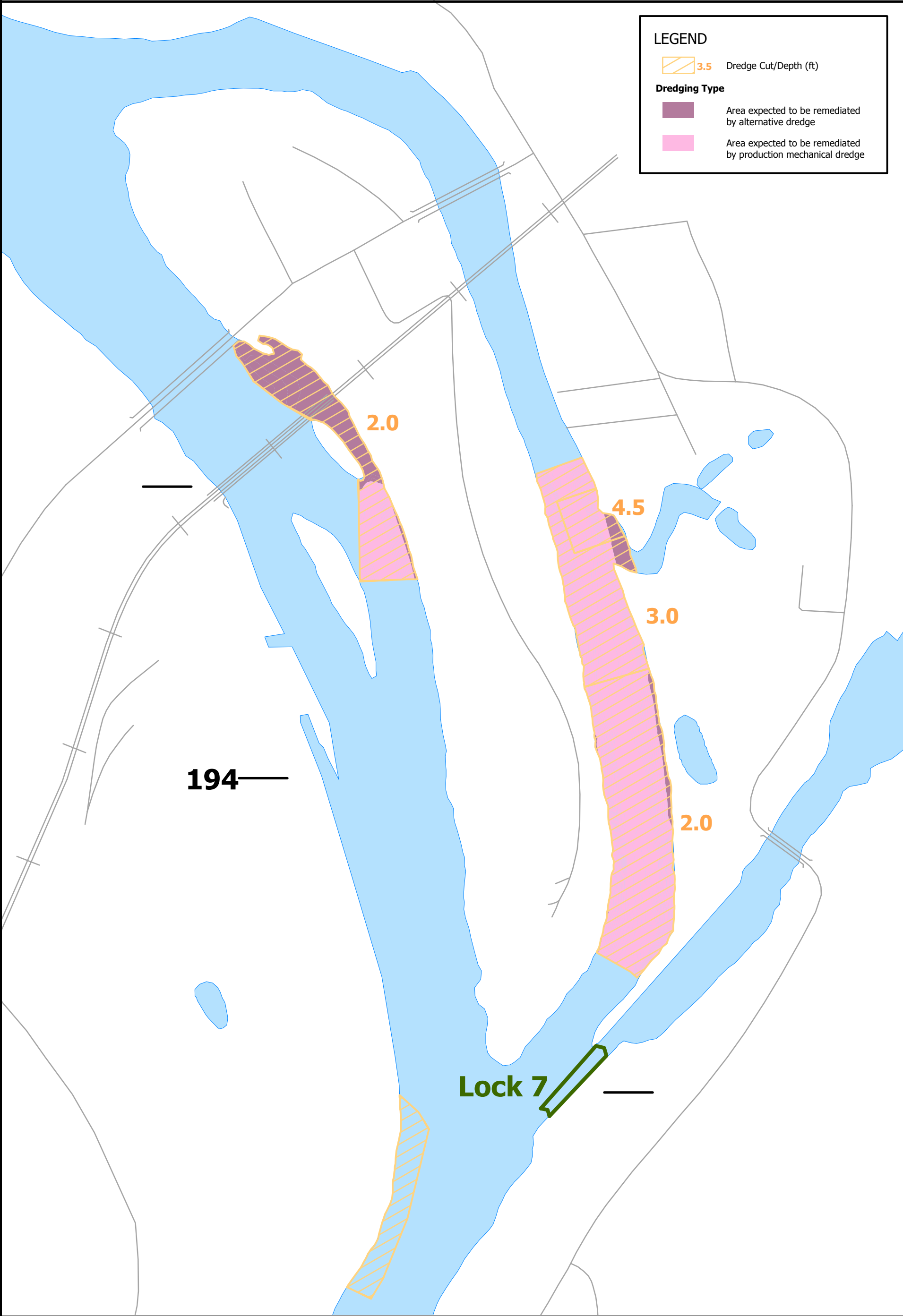
River Section 2: Location	Volume By Production Equipment (cy)	Area By Production Equipment (Acres)	Volume By Alternative Equipment (cy)	Area By Alternative Equipment (Acres)	Total Volume Removed for Location (cy)
RM 183.25 - 184.25	172,709.00	27.13	15,693.08	3.23	188,402.08
RM 184.25 - 185.25	30,167.99	4.68	0.00	0.00	30,167.99
RM 185.25 - 186.25	223,977.30	28.49	5,927.93	1.23	229,905.23
RM 186.5 - 187.5	34,682.30	7.17	5,778.96	1.19	40,461.26
RM 187.5 - 188.5	12,936.08	2.67	90.14	0.02	13,026.22
Total Area (Acres)		70.14		5.67	
Total Volume (cy)			27,490.12		501,962.79

River Section 3: Location	Volume By Production Equipment (cy)	Area By Production Equipment (Acres)	Volume By Alternative Equipment (cy)	Area By Alternative Equipment (Acres)	Total Volume Removed for Location (cy)
RM 163.25 - 164.25	31,260.51	4.00	43,587.73	7.72	74,848.24
RM 165.75 - 166.75	50,648.43	10.24	94,317.22	19.18	144,965.65
RM 169.25 - 170.25	166,434.20	37.89	58,372.12	13.55	224,806.32
Total Area (Acres)		52.13		40.44	
Total Volume (cy)	248,343.14		196,277.07		
Navigational Channel (cy) and (Acres)	117,292.20	43.00			117,292.20
Total Removal for River Section 3 (cy)					561,912.41

Figure 3B-1

Mechanical Dredging Equipment Analysis

Mechanical Dredging Equipment Analysis - RM 193.75 - 194.5

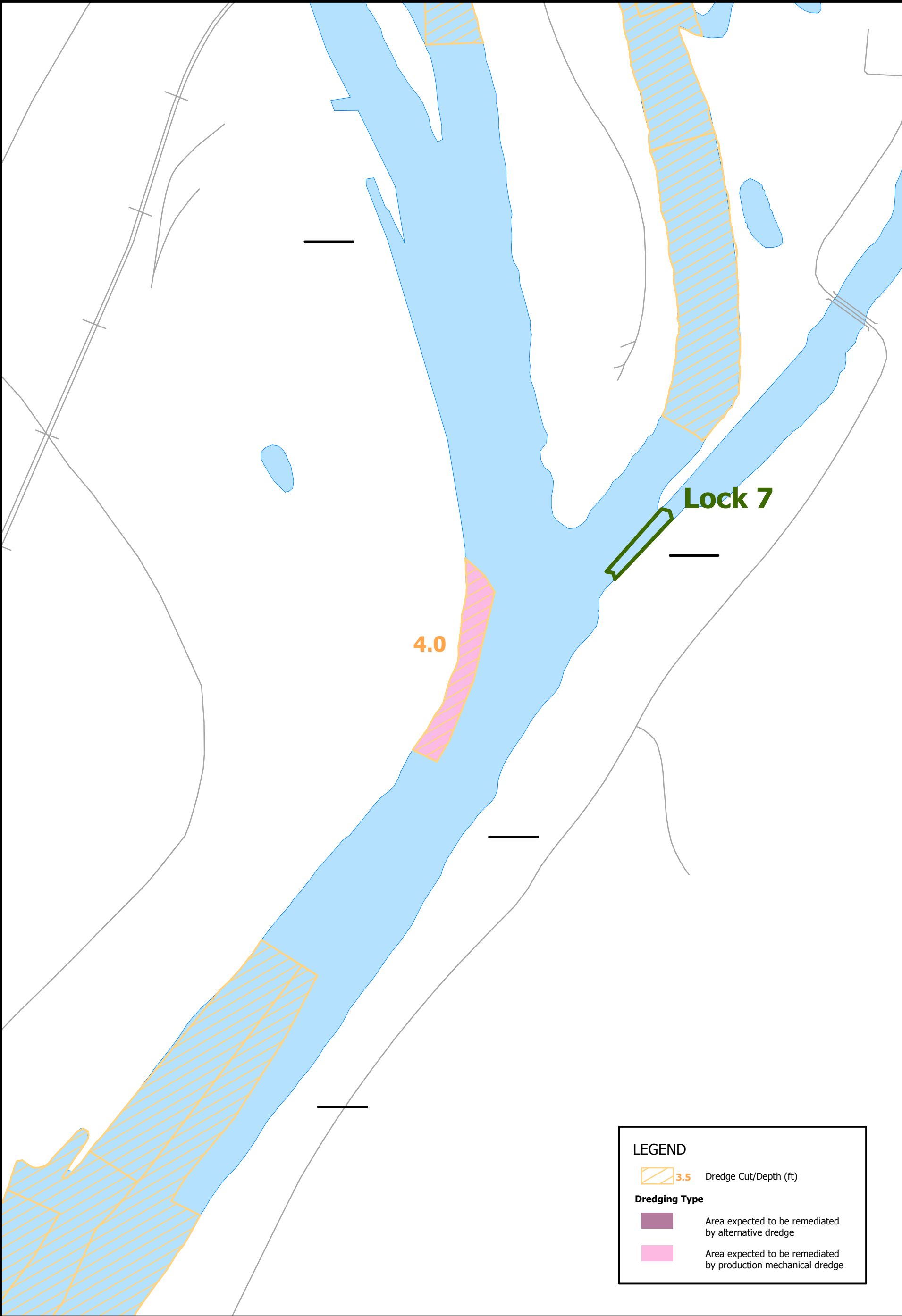


500 0 500 1000 Feet

100 0 100 200 Meters

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Mechanical Dredging Equipment Analysis - RM 193.5 - 193.75



LEGEND

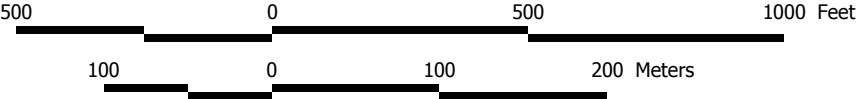
3.5

Dredge Cut/Depth (ft)

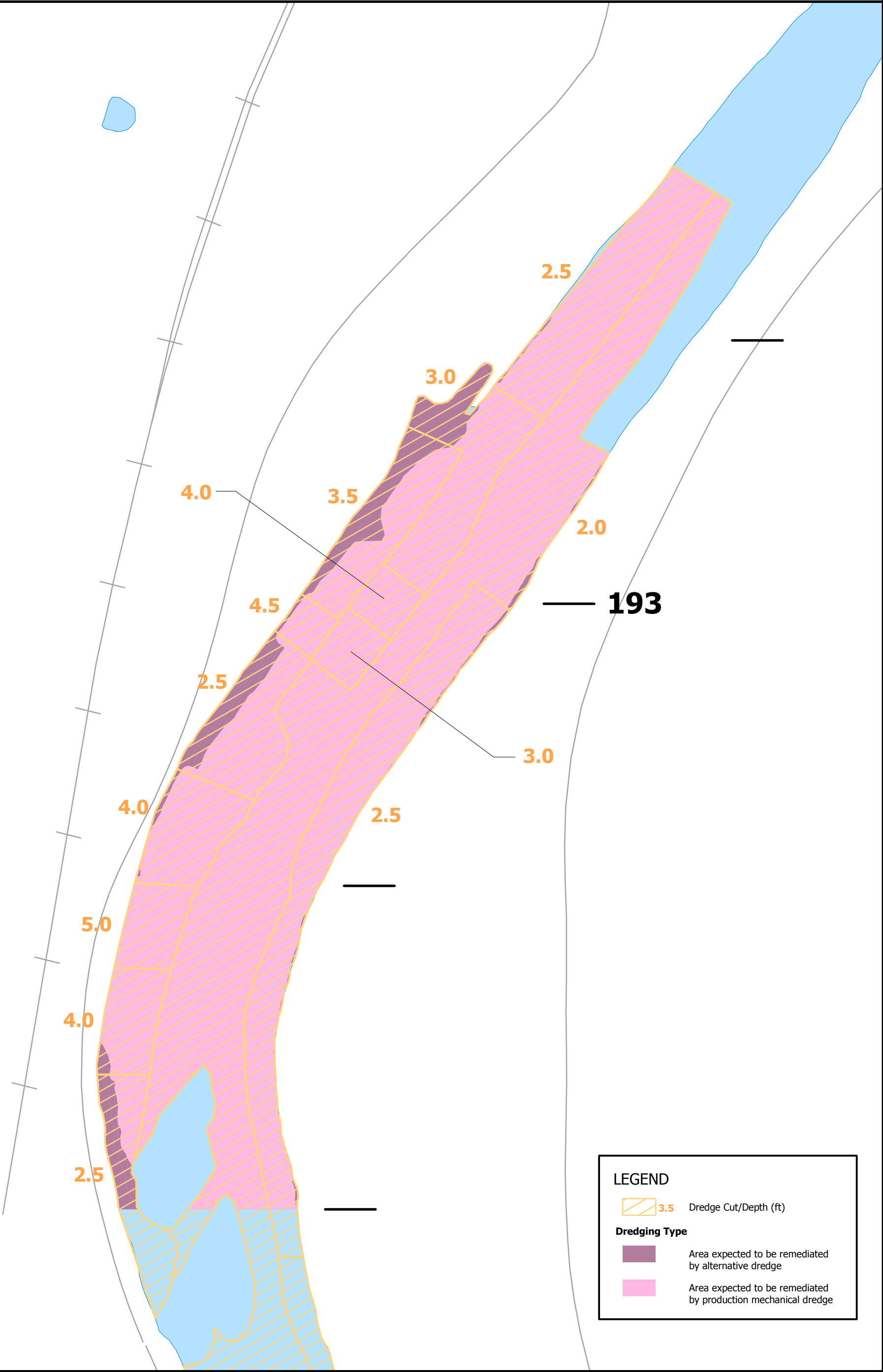
Dredging Type

Area expected to be remediated by alternative dredge

Area expected to be remediated by production mechanical dredge



Mechanical Dredging Equipment Analysis - RM 192.5 - 193.5



LEGEND

**3.5**

Dredge Cut/Depth (ft)

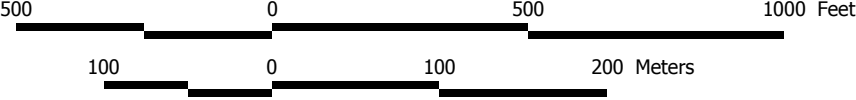
Dredging Type



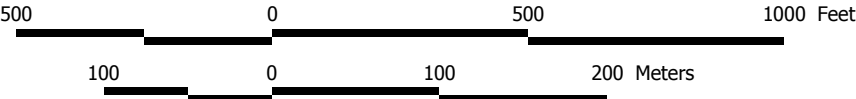
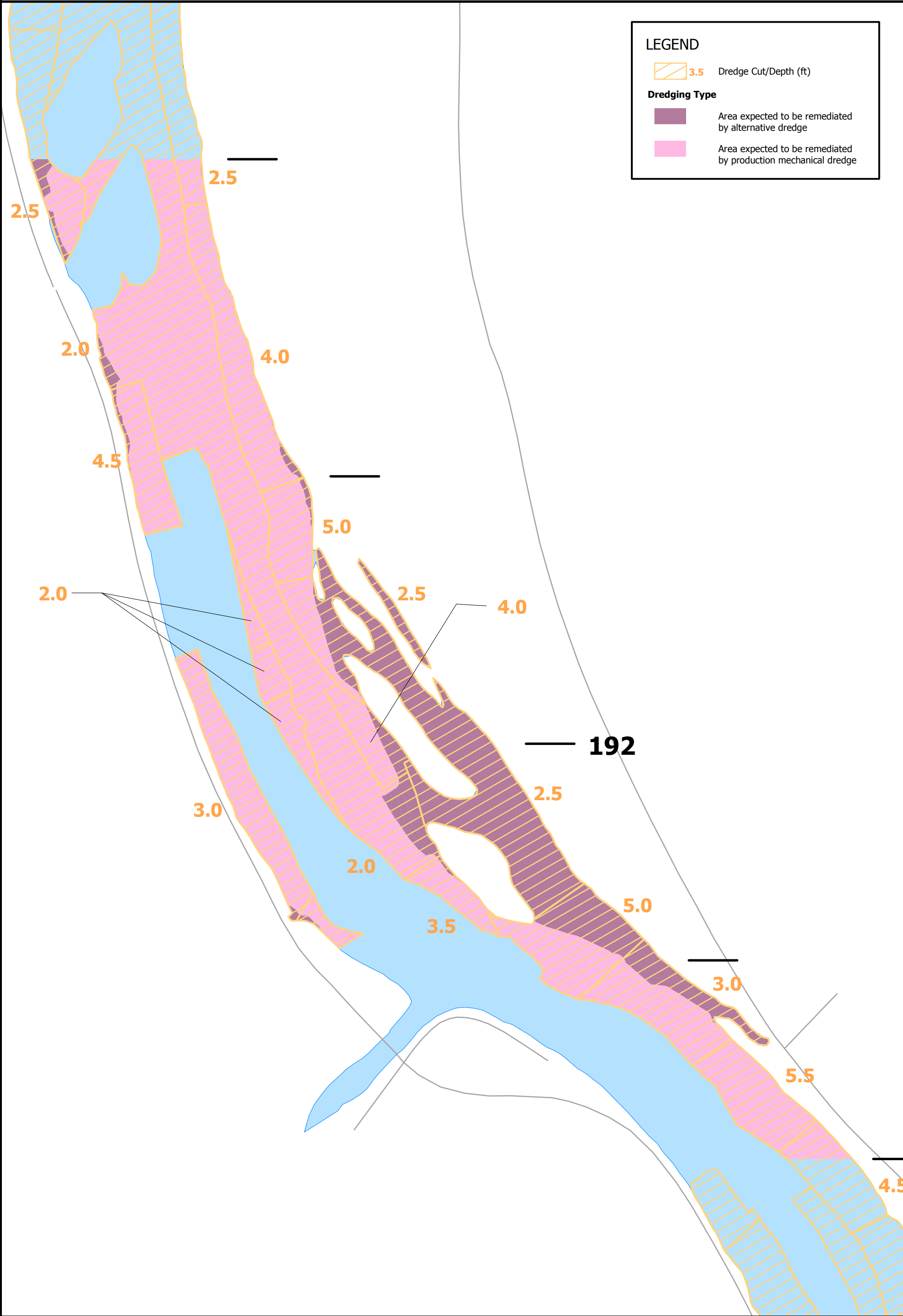
Area expected to be remediated by alternative dredge



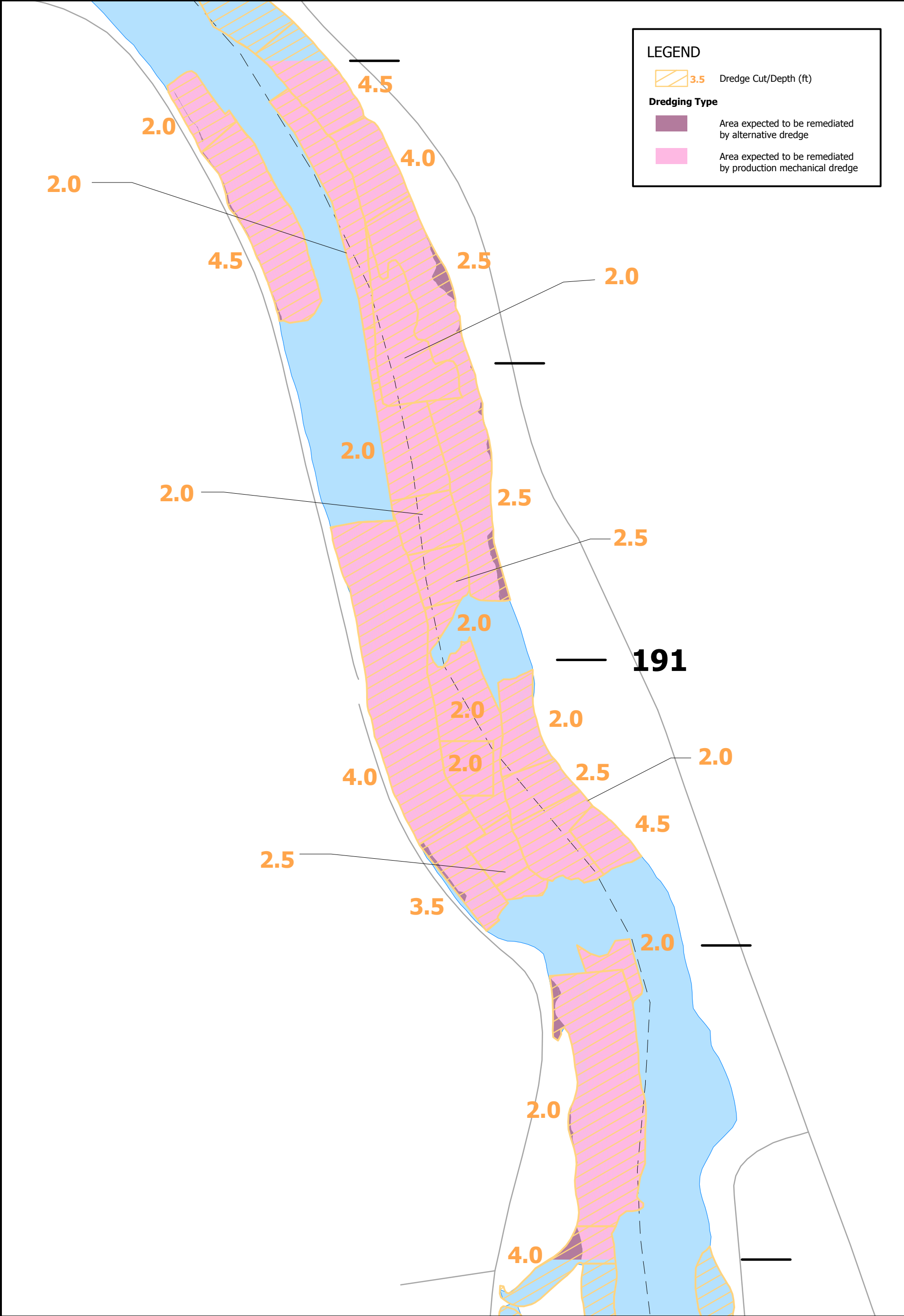
Area expected to be remediated by production mechanical dredge



Mechanical Dredging Equipment Analysis - RM 191.5 - 192.5



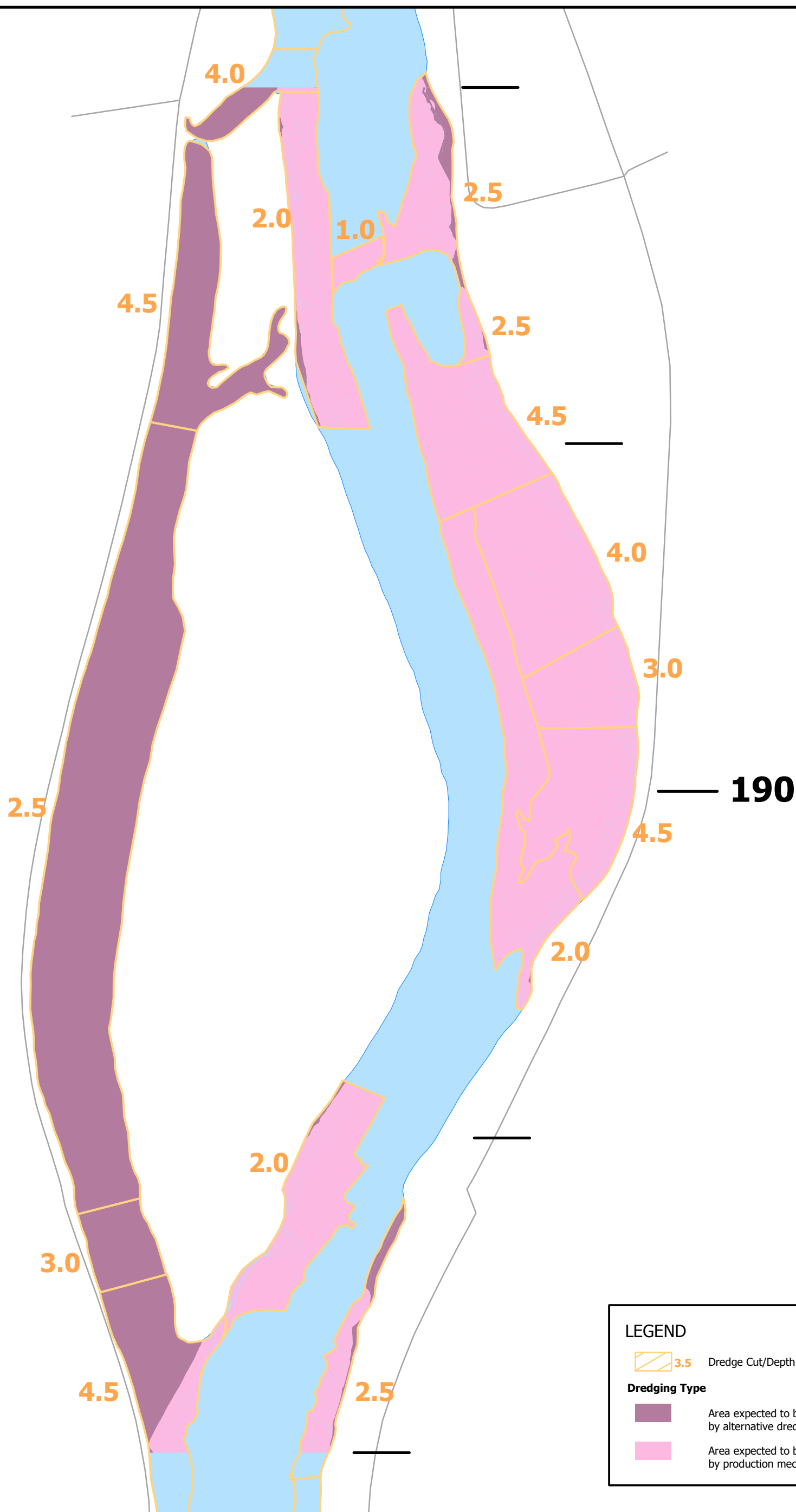
Mechanical Dredging Equipment Analysis - RM 190.5 - 191.5



500 0 500 1000 Feet
100 0 100 200 Meters

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Mechanical Dredging Equipment Analysis - RM 189.5 - 190.5



LEGEND

 3.5

Dredge Cut/Depth (ft)

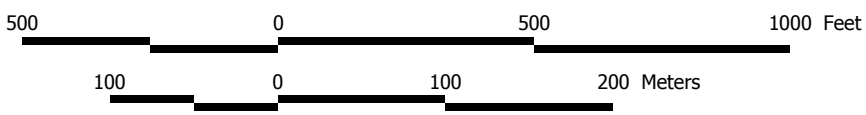
Dredging Type



Area expected to be remediated by alternative dredge



Area expected to be remediated by production mechanical dredge



Mechanical Dredging Equipment Analysis - RM 188.5 - 189.5

LEGEND

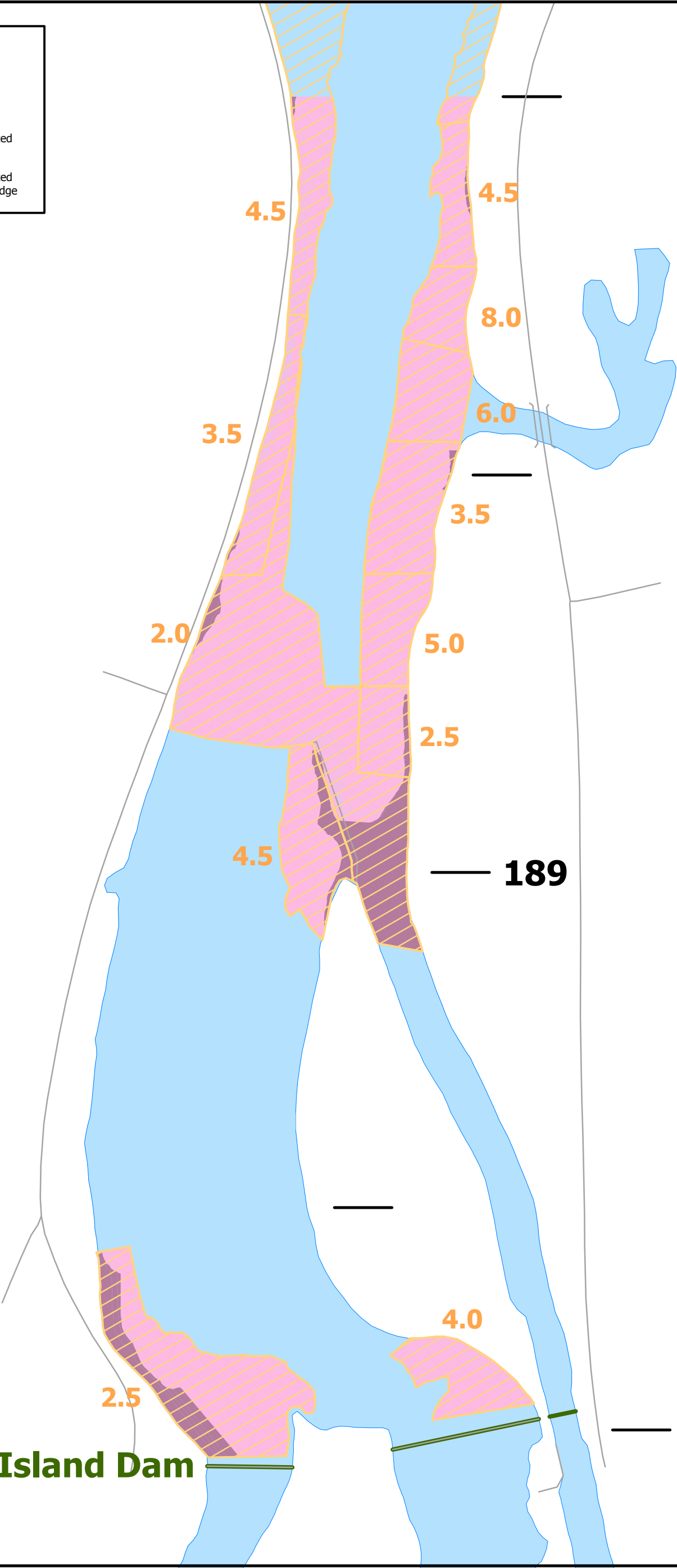
3.5

Dredge Cut/Depth (ft)

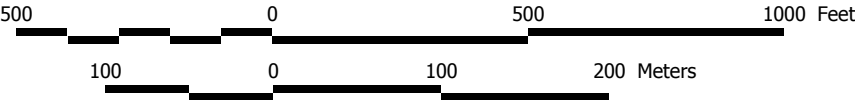
Dredging Type

Area expected to be remediated by alternative dredge

Area expected to be remediated by production mechanical dredge



Thompson Island Dam



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Mechanical Dredging Equipment Analysis - RM 187.5 - 188.5

Thompson Island Dam

2.5

4.0

2.5

2.5

188

LEGEND

 3.5 Dredge Cut/Depth (ft)

Dredging Type

 Area expected to be remediated by alternative dredge

 Area expected to be remediated by production mechanical dredge



Mechanical Dredging Equipment Analysis - RM 186.5 - 187.5

LEGEND

3.5

Dredge Cut/Depth (ft)

Dredging Type

Area expected to be remediated by alternative dredge

Area expected to be remediated by production mechanical dredge

The map displays a light blue waterway with a central channel and a smaller tributary at the bottom. Two primary dredging areas are highlighted: a narrow, elongated area in the upper-middle section and a larger, more complex area in the lower-middle section. Both areas are outlined with an orange hatched pattern and labeled with the number '2.5' in orange. Within these areas, smaller regions are shaded in purple and pink, corresponding to the 'Dredging Type' legend. The map includes several black lines: a horizontal line at the top right, two horizontal lines on the right side, a vertical line in the center, and a horizontal line at the bottom right. A small green line is visible at the bottom right corner of the waterway.

500 0 500 Feet
100 0 100 200 Meters

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Mechanical Dredging Equipment Analysis - RM 185.25 - 186.25

Fort Miller Dam

186

Lock 6

Lock 6

2.5

5.5

2.5

4.0

5.5

LEGEND

 3.5 Dredge Cut/Depth (ft)

Dredging Type

 Area expected to be remediated by alternative dredge

 Area expected to be remediated by production mechanical dredge



Mechanical Dredging Equipment Analysis - RM 184.25 - 185.25

LEGEND

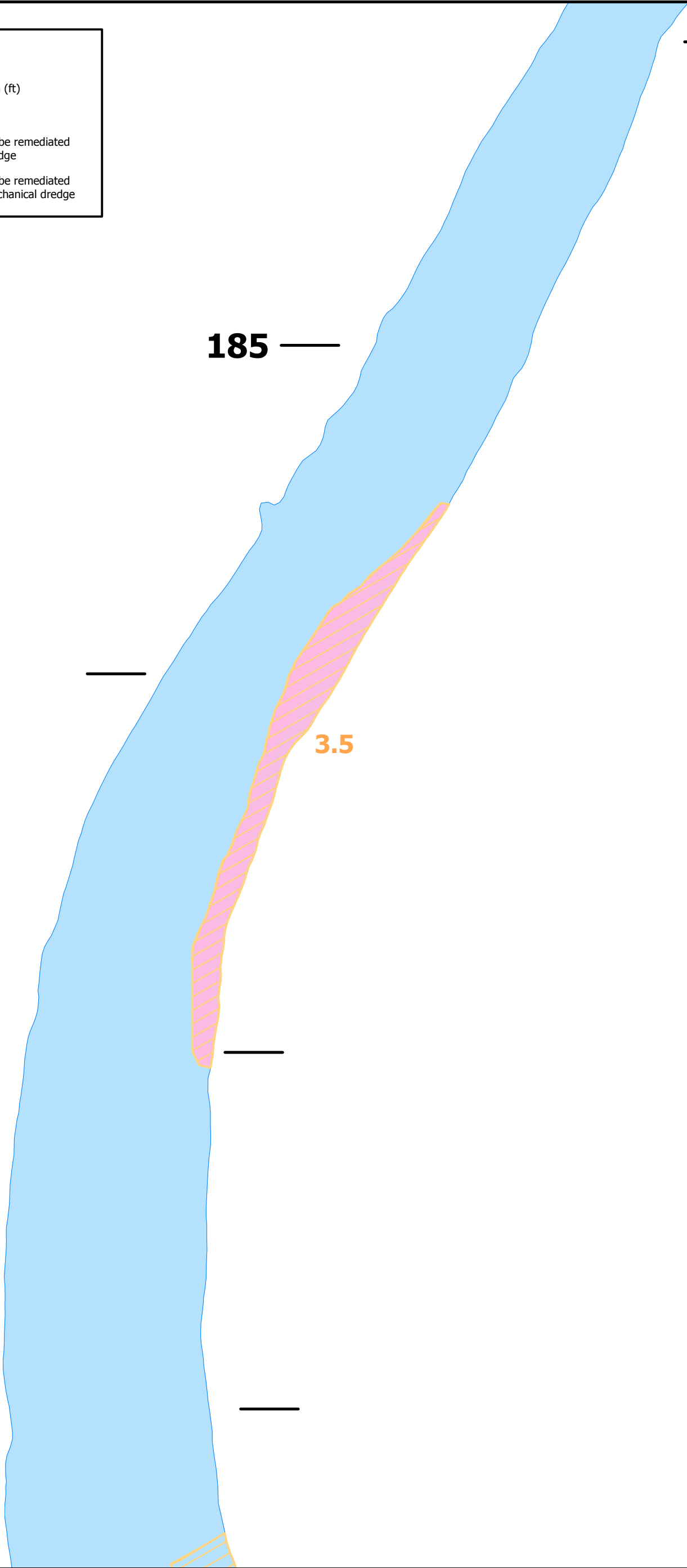
3.5

Dredge Cut/Depth (ft)

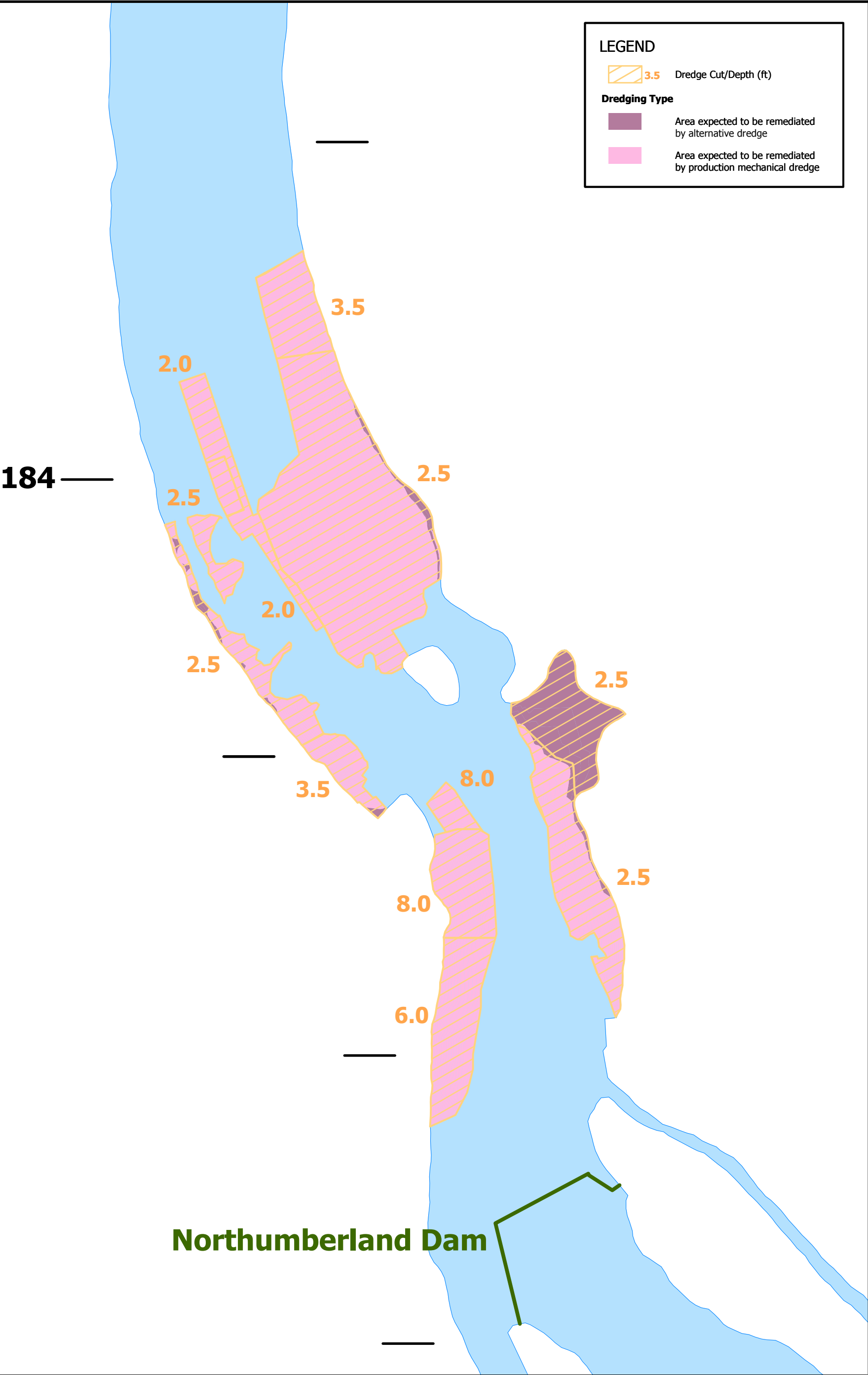
Dredging Type

Area expected to be remediated by alternative dredge

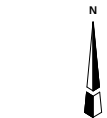
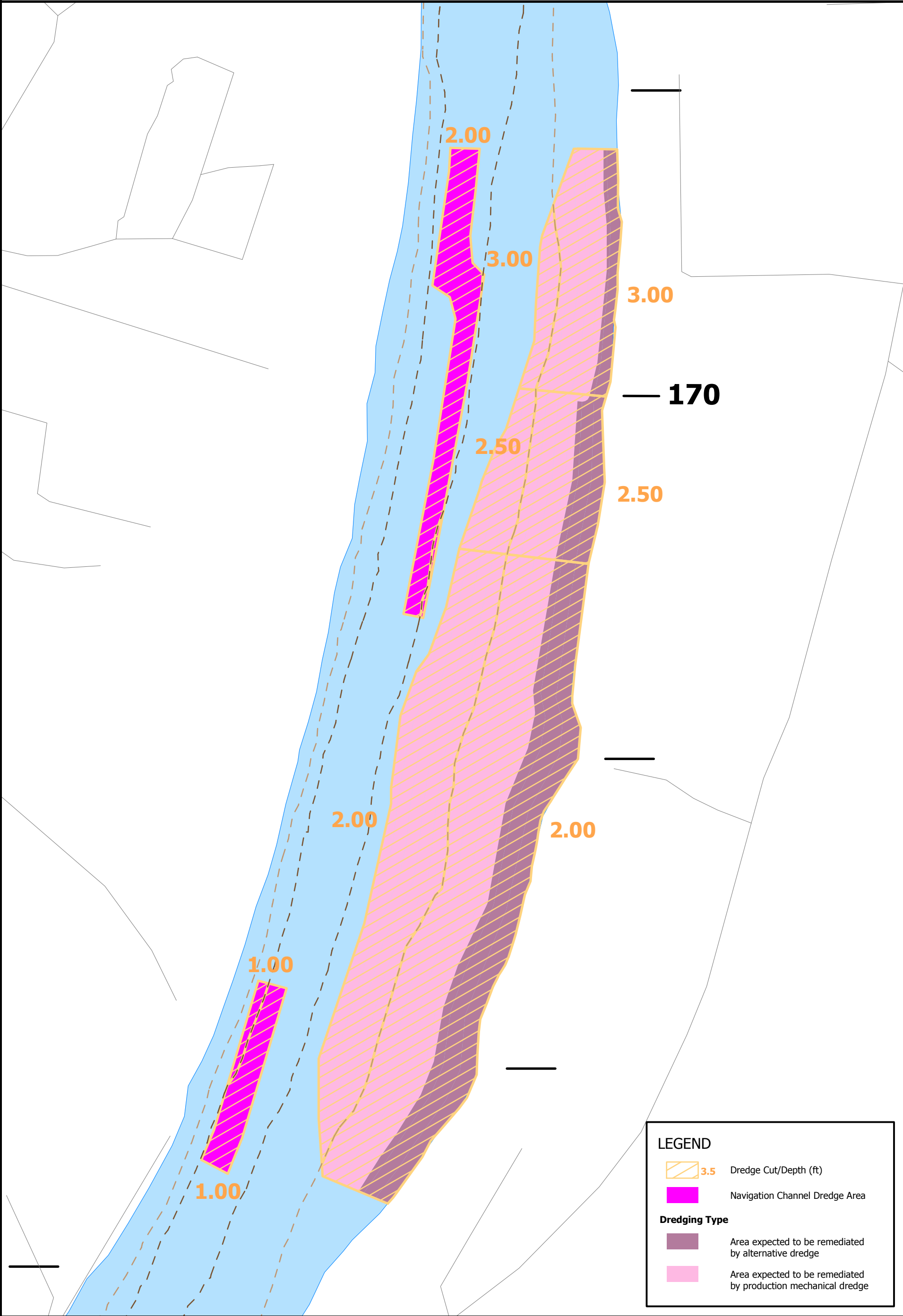
Area expected to be remediated by production mechanical dredge



Mechanical Dredging Equipment Analysis - RM 183.25 - 184.25



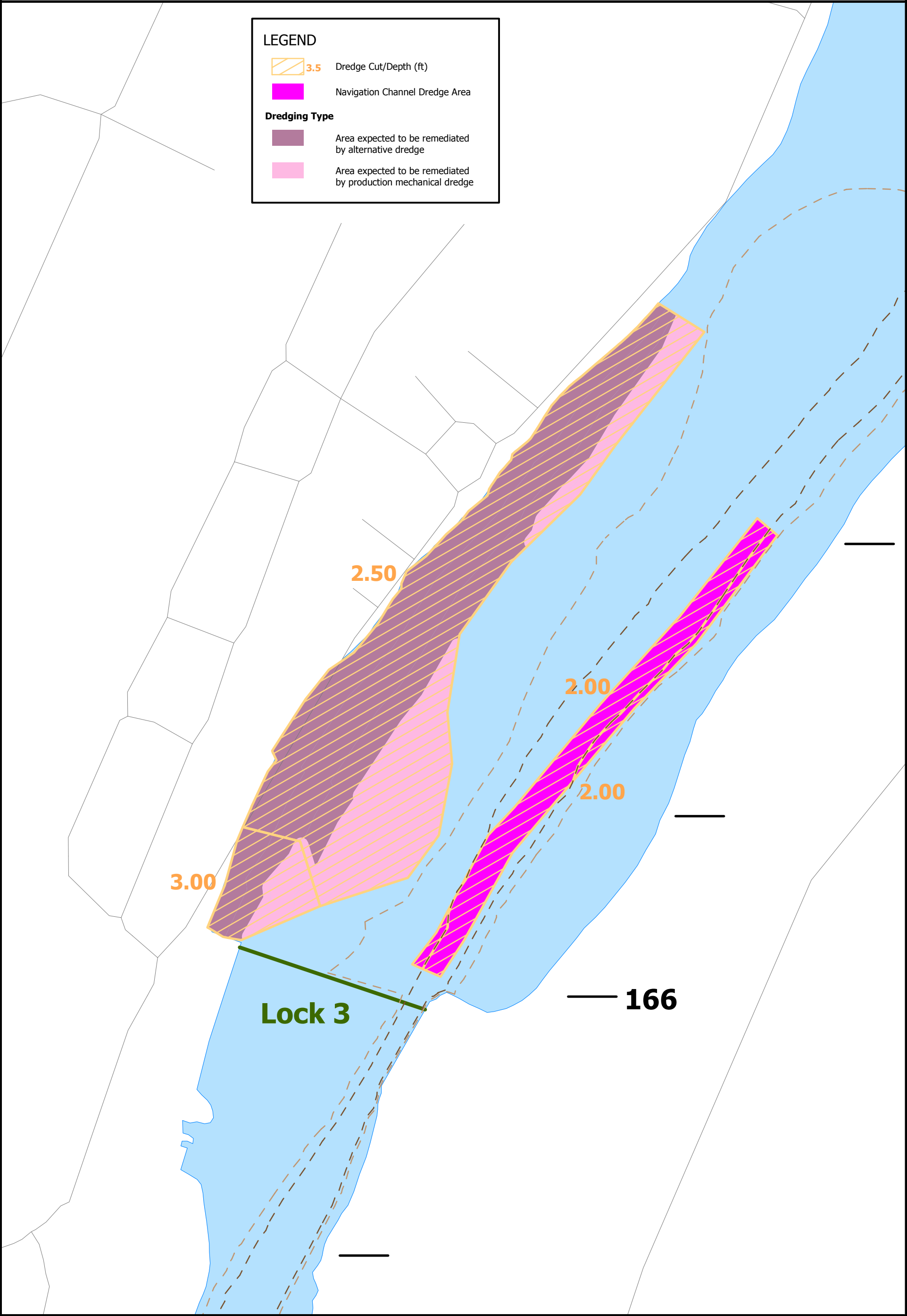
Mechanical Dredging Equipment Analysis - RM 169.25 - 170.25



500 0 500 Feet
100 0 100 200 Meters

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Mechanical Dredging Equipment Analysis - RM 165.75 - 166.75



500 0 500 Feet
100 0 100 200 Meters

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TAMS-Earth Tech

Mechanical Dredging Equipment Analysis - RM 163.25 - 164.25

