

**PORTSMOUTH HARBOR AND PISCATAQUA RIVER
NEW HAMPSHIRE AND MAINE
NAVIGATION IMPROVEMENT STUDY
FEASIBILITY REPORT**

**APPENDIX B
PROJECT AUTHORIZATION AND WORK HISTORY**

**PORTSMOUTH HARBOR AND PISCATAQUA RIVER
PORTSMOUTH, NEW CASTLE AND NEWINGTON, NEW HAMPSHIRE
& KITTERY AND ELLIOT, MAINE
LIST OF AUTHORIZATIONS**

<u>Authorization</u>	<u>Work Authorized & Constructed</u>	<u>Construction</u>
Act of 23 May 1828 & Act of 3 July 1832, 4 Stat. 551, Ch. 153	Removal of Obstructions from the Berwick Branch of the Piscataqua River (Present Day's Salmon Falls River) including Providing a Depth of -6 Feet MHW over Quamptegan Rapids.	FY1828 – FY1833
River & Harbor Act of 3 March 1879	1) Stone breakwater between Goat Island and Great Island, top elevation 2.5 feet MLW, 820 feet long, top width of 10 feet, 2) the removal of Gangway Rock to -20 feet MLW, and 3) removal of the southwest point (the outer 135-feet) of the ledge at Badgers Island to -10 feet MLW. See: Senate Exec. Doc. #29, 45th Congress, 3d Session, 16 January 1879 and House Exec. Doc. #71, 48th Congress, 2nd Session, 7 January 1885	Breakwater completed Sept 1879 – Nov 1880 to +2 feet MLW Gangway rock removal April 1881 – Jan 1888 Badgers Is. removal May 1882 – Fall 1891
River & Harbor Act 19 September 1890	Removal of Pier Rock to -12 feet MLW. See: Annual Report for 1891, Appendix A-21, Page 604 and Annual Report for 1892, Appendix A-20, Page 527	Fall of 1891
Annual Report 1887, Appendix A-13, Page 463	Depth projected for the removal of the ledge at the southeast point of Badger's Island increased to -18 feet MLW. See: Annual Report for 1892, Appendix A-20, Page 527	Fall 1889 – Fall 1891
River & Harbor Act of 3 September 1954	Provide 35-foot channel by removal of ledge at Gangway Rock, Badgers Island, and Boiling Rock, all to -35 Feet MLW. See: House Doc. #556, 82nd Congress, 2nd Session, 30 September 1952	June 1956 – December 1956
River & Harbor Act of 23 October 1962 Design Memorandum 15 April 1964	Widening the 35-foot MLW channel at the bends by the removal of ledge at Henderson Point, Gangway Rock (700 feet), Badgers Island (600 feet), the Interstate Bridge and Boiling Rock (500 Feet), and extending the channel upstream from Boiling Rock at 400 feet wide and -35 feet MLW to a turning	October 1964 – January 1966

	basin at Newington below Great Bay. See: House Doc. #482, 87th Congress, 2nd Session, 16 July 1962	
Water Resources Development Act of 17 November 1986, Section 202(a)	Widening the 35-foot channel by 1) creating an emergency maneuvering area between the two vertical lift bridges by widening the channel from 600 to 1,000 feet, 2) widening, by 100 Feet, the northern limit of the channel adjacent to Badgers Island, 3) widening the southern limit of the channel at Goat Island from 400 to 550 Feet. See: Feasibility Report, April 1983, Revised March 1984, and 25 February 1985, and General Design Memorandum, 22 November 1985	September 1989 – April 1992

**PORTSMOUTH BACK CHANNELS AND SAGAMORE CREEK
PORTSMOUTH, NEW CASTLE AND RYE, NEW HAMPSHIRE
LIST OF AUTHORIZATIONS**

<u>Authorization</u>	<u>Work Authorized & Constructed</u>	<u>Construction</u>
Authorized by the Chief of Engineers, 23 December 1965 Under Continuing Authority of Section 107 of the River and Harbor Act of 14 July 1960	1) A channel -6 feet MLW, 100 feet wide from Little Harbor through the Rye-New Castle bridge, then northerly between the mainland and Leach's Island to deep water near Shapleigh Island, 2) A channel 75 feet wide by -6 feet MLW up Sagamore Creek and 3) A 75 foot wide, -6 foot MLW anchorage strip adjacent to the channel in Sagamore Creek. See Detailed Project Report, CAP Section 107, 18 June 1965.	August 1970 – February 1971
Modification Approved Chief of Engineers 18 July 1969	1) Narrow the channel from Little Harbor to the 3-channel junction to 75-feet wide, 2) narrow the channel north from the junction to Shapleigh Island to 60 feet, and 3) elimination of the anchorage and turning areas in Sagamore Creek. See Letter Report, (Back Channels Section 107), 2 July 1969.	August 1970 – February 1971

**PORTSMOUTH HARBOR AND PISCATAQUA RIVER
PORTSMOUTH, NEW CASTLE AND NEWINGTON, NEW HAMPSHIRE
& KITTERY AND ELLIOT, MAINE
PROJECT CONSTRUCTION & MAINTENANCE HISTORY**

<u>Work Dates</u>	<u>Work Accomplished</u>	<u>Quantities</u>
Sept 1879 – May 1880	Construct Goat Island-Great Island Breakwater	12,200 Long Tons Stone
Aug 1880 – Nov 1880	Complete Goat Island-Great Island Breakwater	2,400 L. Tons Stone
Apr 1881 – Sept 1882	Remove Gangway Rock to –20 Feet	700 cy Rock
May 1882 – Nov 1883	Partly Remove Badgers Is. Ledge to –10 Feet	600 cy Rock
May 1883 – Aug 1884	Continue Removal of Gangway Rock	800 cy Rock
Sept 1884 – June 1886	Continue Removal of Gangway Rock	808 cy Rock
Apr 1887 – Jan 1888	Continue Removal of Gangway Rock to 20 Ft	732 cy Rock
1889 – Fall 1891	Remove Badgers Is. Ledge to –18 Feet	413 cy Rock
Fall 1891	Removal of Pier Rock to –10 Feet	10 cy Rock
June 1956 – Dec 1956	Ledge Removal for 35-Foot Channel	33,500 cy Rock
Oct 1964 – Jan 1966	Improvement - Ledge Removal for 35-Foot Channel Widening	548,321 cy plus 114,067 cy Rock
March 1966	Railroad Engine Moved Outside Channel Limit Upstream of Sarah Long Bridge	-----
Jan 1969 – Feb 1969	Maintenance Dredging of 35-Foot Channel	500 cy Estimated
Jan 1970 – Feb 1970	Maintenance Dredging of 35-Foot Channel	23,447 cy
May 1971 – June 1971	Maintenance of Upper 35-Foot Channel	39,160 cy
July 1979 – Sept 1979	Maintenance of Upper 35-Foot Channel	30,000 cy
Late FY 1980	Maintenance of Upper 35-Foot Channel	5,000 cy
FY 1981	Maintenance of Upper 35-Foot Channel	Unknown
March 1984	Maintenance of Upper 35-Foot Channel	Unknown
Sept 1989 – July 1990	Improvement Widening of 35-Foot Channel at Bridges and Badgers Island	310,000 cy plus 145,000 cy Rock

Dec 1991 – Apr 1992	Improvement Widening of 35-Foot Channel at Goat Island	25,000 cy plus 15,000 cy Rock
December 1991	Maintenance of Upper 35-Foot Channel at Simplex Shoal with In-River Disposal	20,100 cy
November 2000	Maintenance of Upper 35-Foot Channel at Simplex Shoal with In-River Disposal	7,900 cy
February 2013	Maintenance of 3 Areas of the Upper 35-Foot Channel including Advanced Maintenance at Simplex Shoal to -42 Feet with In-River Disposal	14,323 cy

**PORTSMOUTH BACK CHANNELS AND SAGAMORE CREEK
PORTSMOUTH, NEW CASTLE AND RYE
PROJECT CONSTRUCTION & MAINTENANCE HISTORY**

<u>Work Dates</u>	<u>Work Accomplished</u>	<u>Quantities</u>
Aug 1970 – Feb 1971	Improvement Dredging of 6-Foot Channels in Back Channel and Sagamore Creek	58,000 cy Plus 3,400 cy Ledge & Hard Material