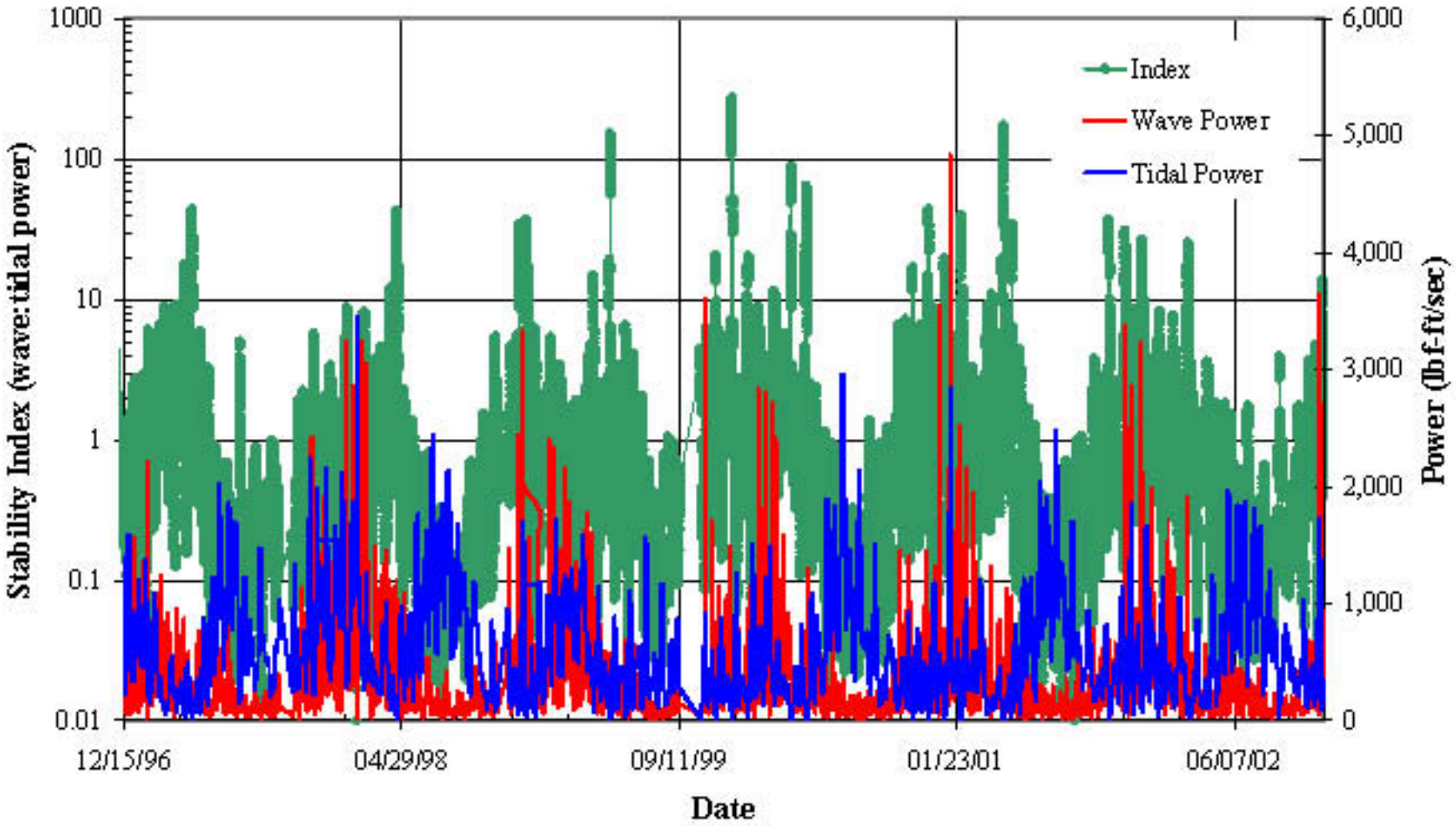
APPENDIX A

QCM Output for Existing and Enlarged Wetland Sizes



Notes: Existing wetland size of 14 ac at MHHW, with low water elevations varying from +1.50 to +1.75 ft NGVD.

Source: Quantified Conceptual Model.

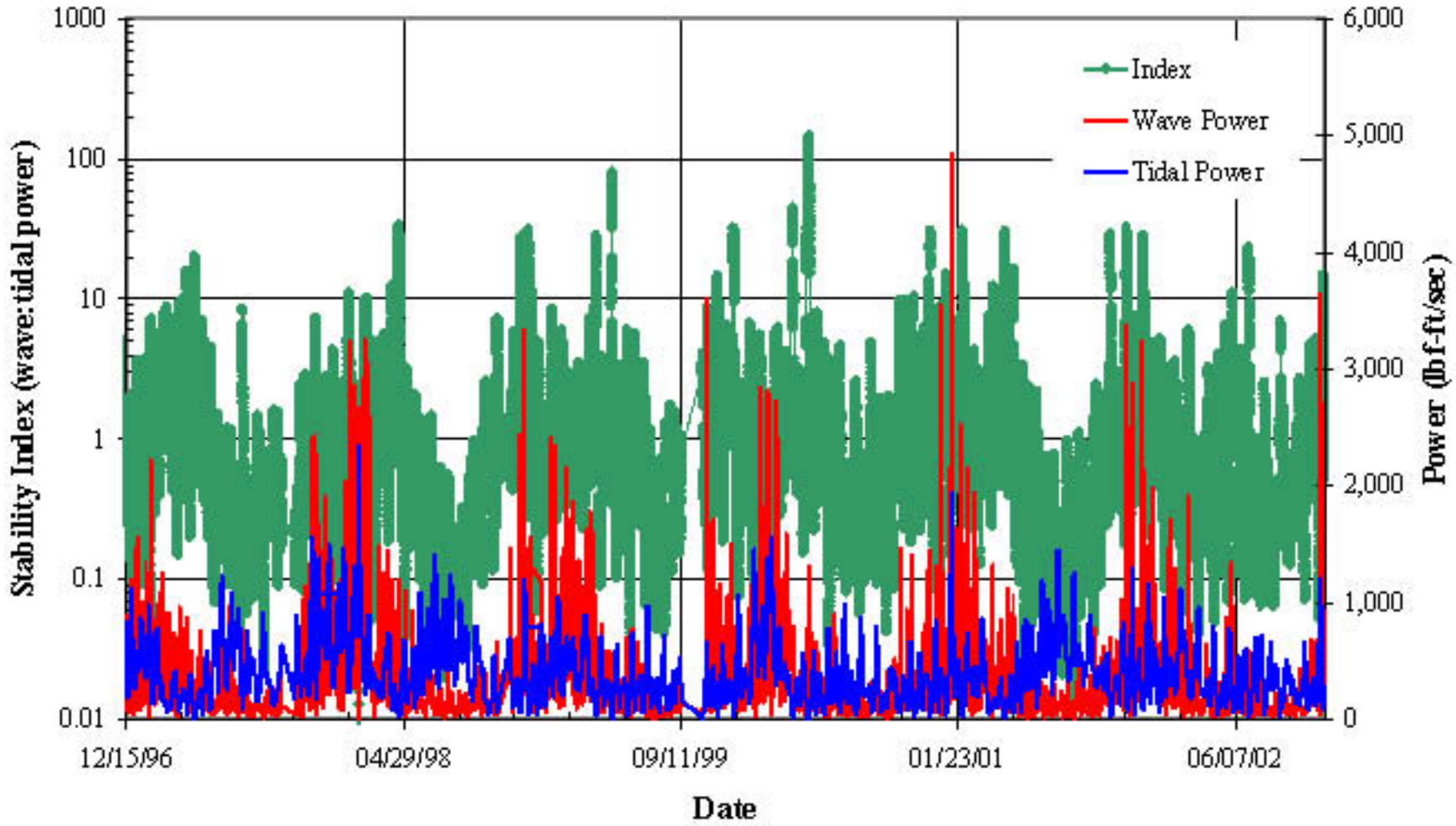
figure A-1

Crissy Field Marsh Expansion Study

Stability of Existing (14 ac) Wetland

PWA Ref 1623

PWA



Notes: Increase wetland size by 1.25 times existing, to approximately 17.5 acres at MHHW. Results assume 0.22 ft of downcutting at thalweg of inlet channel.

Source: Quantified Conceptual Model.

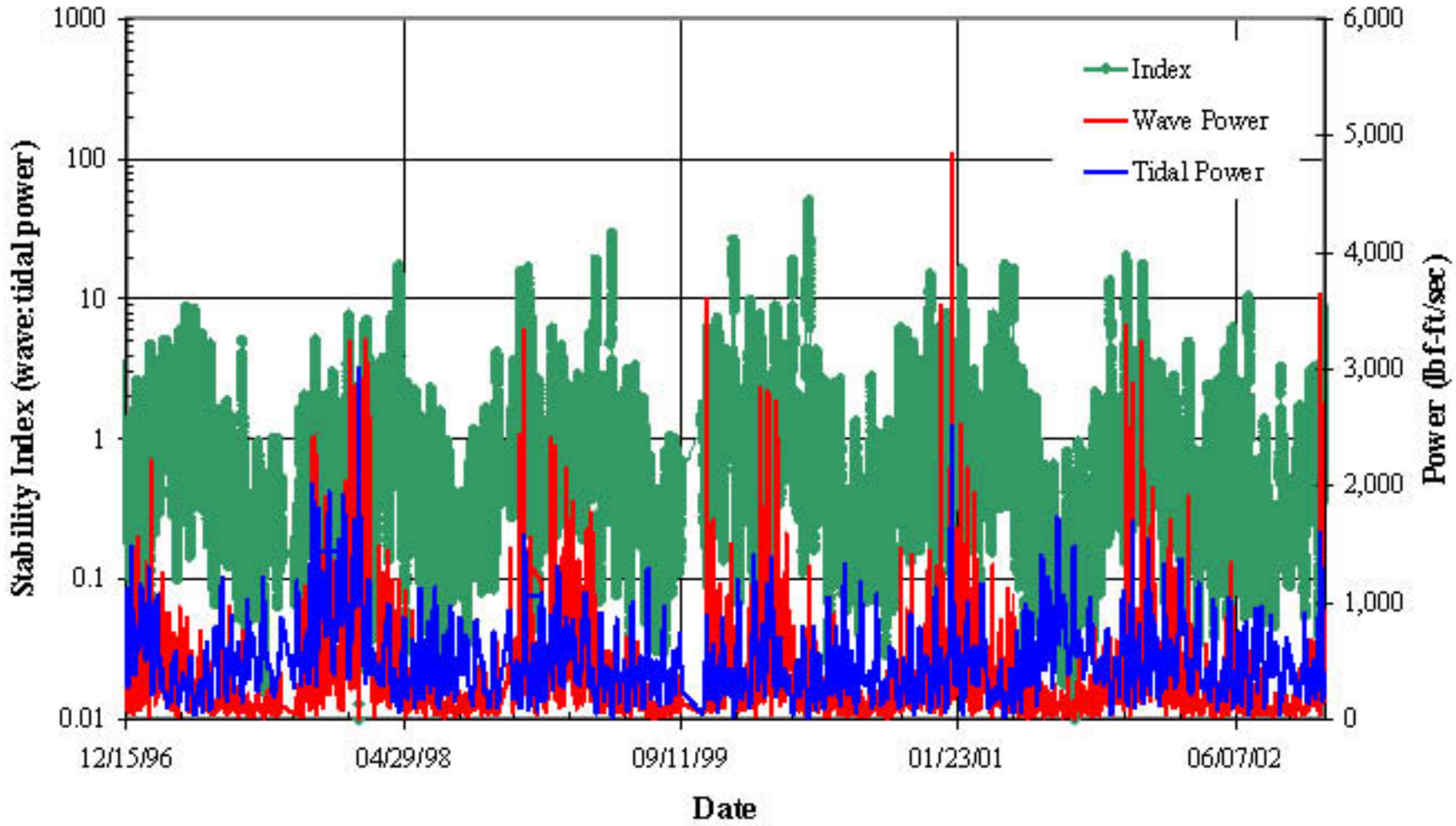
figure A-2

Crissy Field Marsh Expansion Study

Stability of 17.5 acre Wetland

PWA Ref 1623

PWA



Notes: Increase wetlands size by 1.5 times existing size, to approximately 21 acres at MHHW. Results assume 0.42 ft of downcutting at thalweg of inlet channel.

Source: Quantified Conceptual Model.

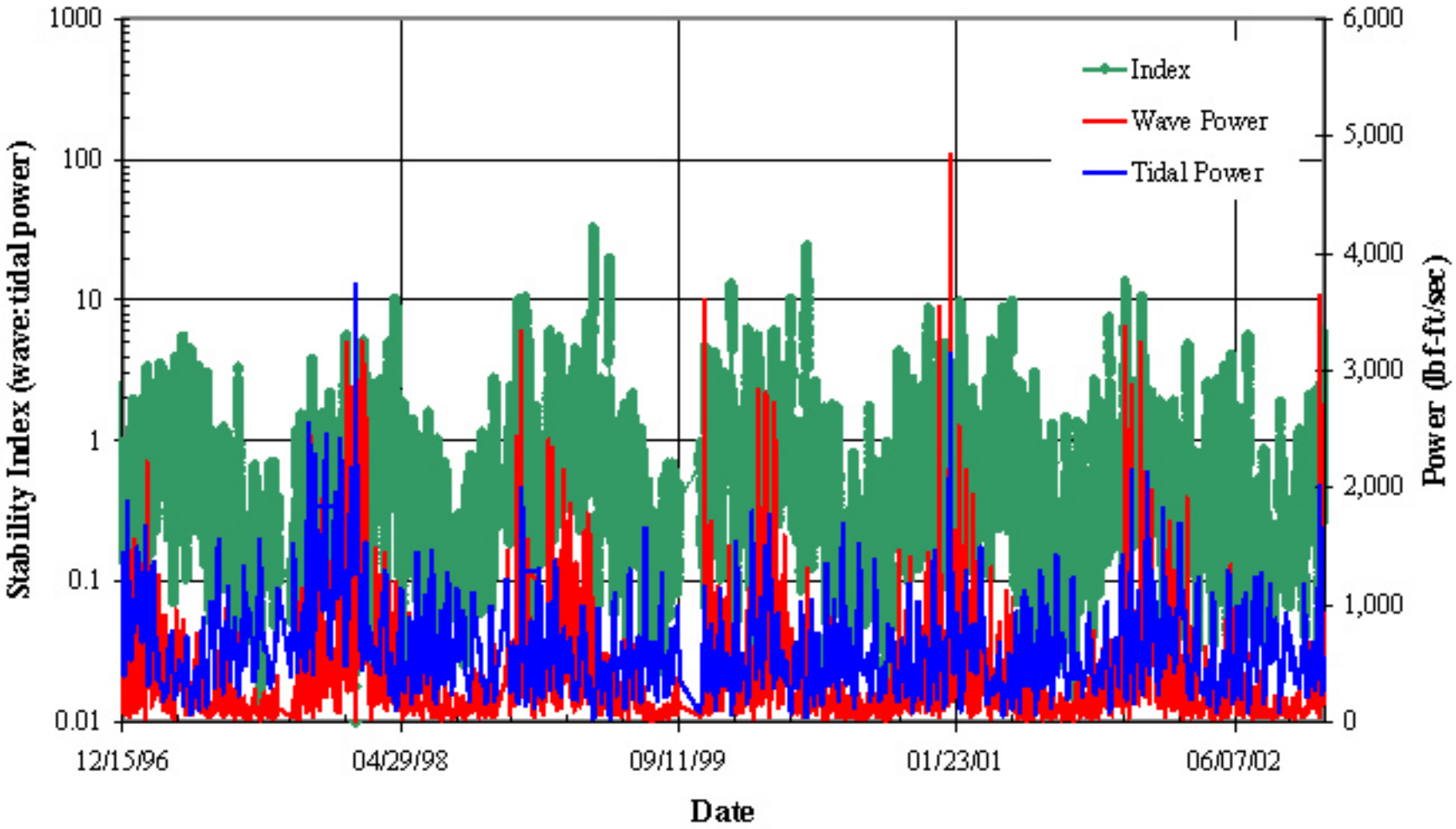
figure A-3

Crissy Field Marsh Expansion Study

Stability of 21 acre Wetland

PWA Ref 1623

PWA



Notes: Increase wetland size by 1.75 times existing, to approximately 24.5 acres at MHHW. Results assume 0.61 ft of downcutting at thalweg of inlet channel.

Source: Quantified Conceptual Model.

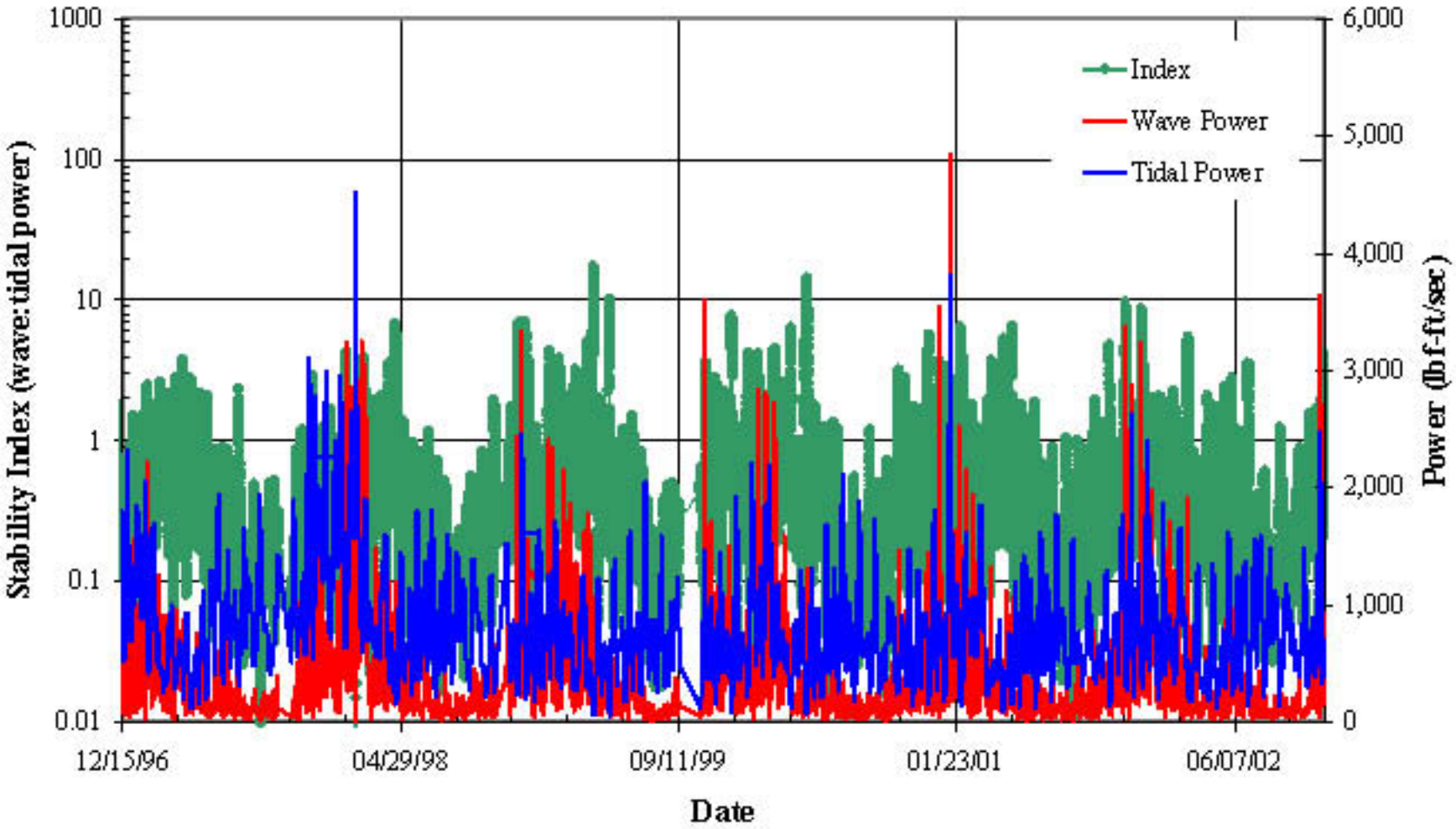
figure A-4

Crissy Field Marsh Expansion Study

Stability of 24.5 acre Wetland

PWA Ref 1623

PWA



Notes: Increase wetland size by 2 times existing, to approximately 28 acres at MHHW. Results assume 0.78 ft if downcutting at thalweg of inlet channel.

Source: Quantified Conceptual Model.

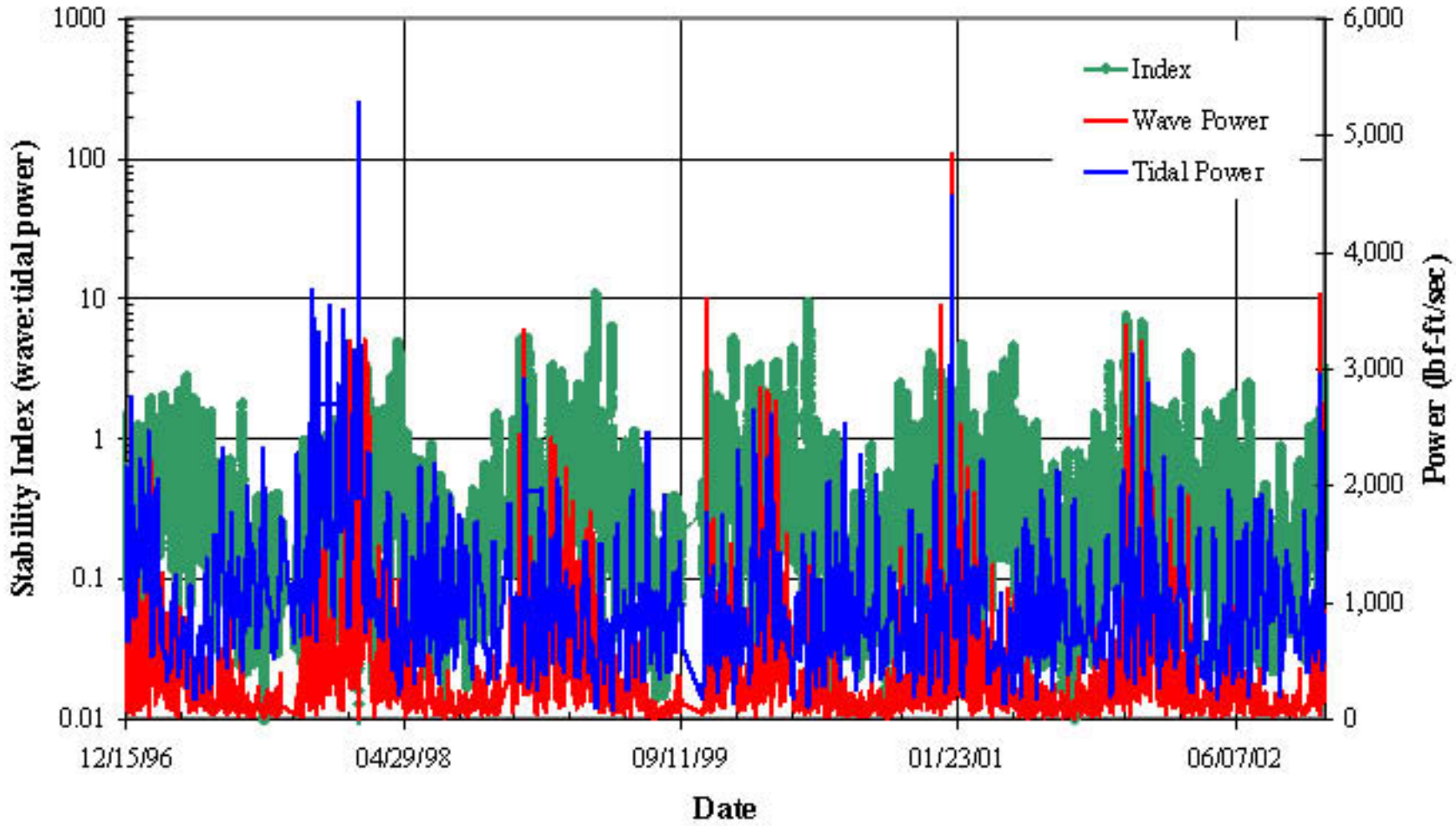
figure A-5

Crissy Field Marsh Expansion Study

Stability of 28 acre Wetland

PWA Ref 1623

PWA



Notes: Increase wetlands size by 2.25 times existing size, to approximately 31 acres at MHHW. Results assume 0.934 ft of downcutting at thalweg of inlet channel.

Source: Quantified Conceptual Model.

figure A-6

Crissy Field Marsh Expansion Study

Stability of Minimum Wetland Size (31 acres)

PWA Ref 1623

PWA