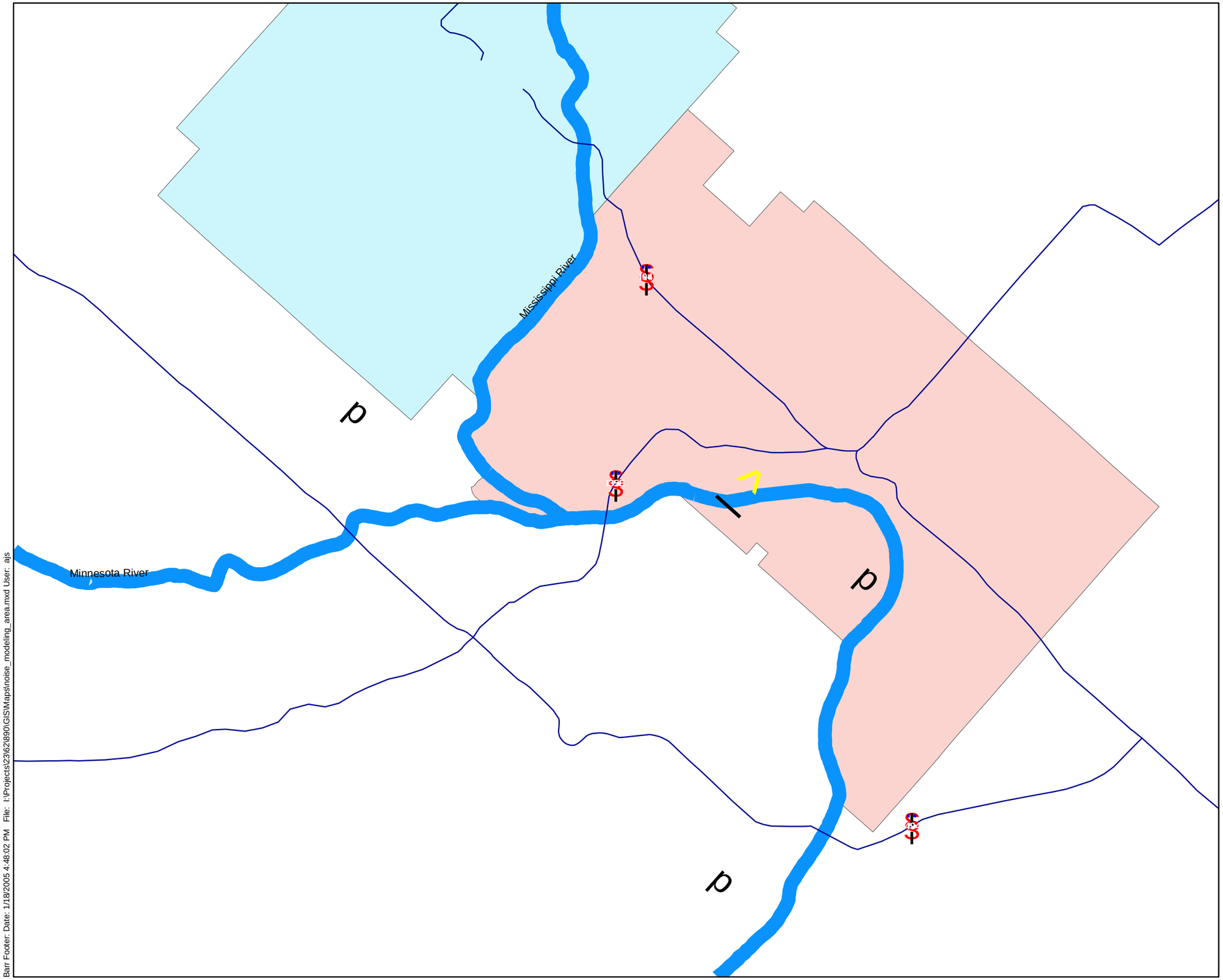
Figures



Project Site
Airport
River
Minneapolis
St. Paul

0 0.5 1 2 3 Miles

0 0.5 1 2 3 4 Kilometers

BARR

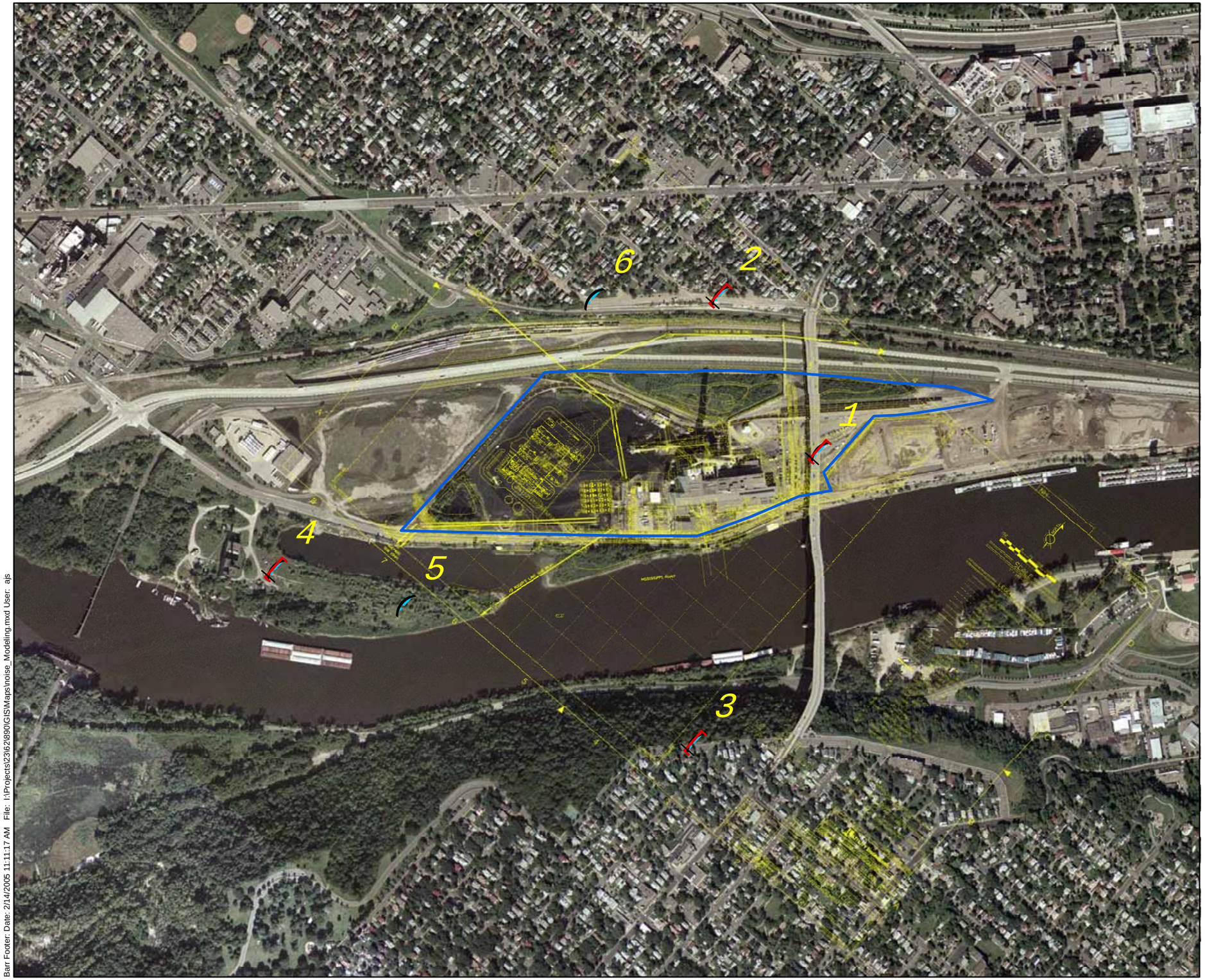
Figure 1-1

Project Location
High Bridge Combined Cycle Project
St. Paul, MN

February 2005

Data Source: Minnesota Department of Transportation and the Metropolitan Council

Barr Footer: Date: 1/18/2005 4:48:02 PM File: I:\Projects\23\62\8990\GIS\Maps\noise_modeling_area.mxd User: ajs



Project Site
New Plant Layout
Monitoring Location
Modeled Observer Location

1 - Centex Homes
2 - Cliff Street
3 - Cherokee Avenue
4 - Island Station
5 - Island Peninsula
6 - Southwest Cliff Street

0 62.5 125 250 375 500 Meters

0 170 340 680 1,020 1,360 Feet

BARR

Figure 3-1

Noise Monitoring and Modeling Locations
High Bridge Combined Cycle Project
St. Paul, MN

February 2005

Barr Footer: Date: 2/14/2005 11:11:17 AM File: I:\Projects\23\62890\GIS\Maps\noise_Modeling.mxd User: ajs

Figure 4-1 Terrain Contour Model – (a) Elevation (b) Hardness

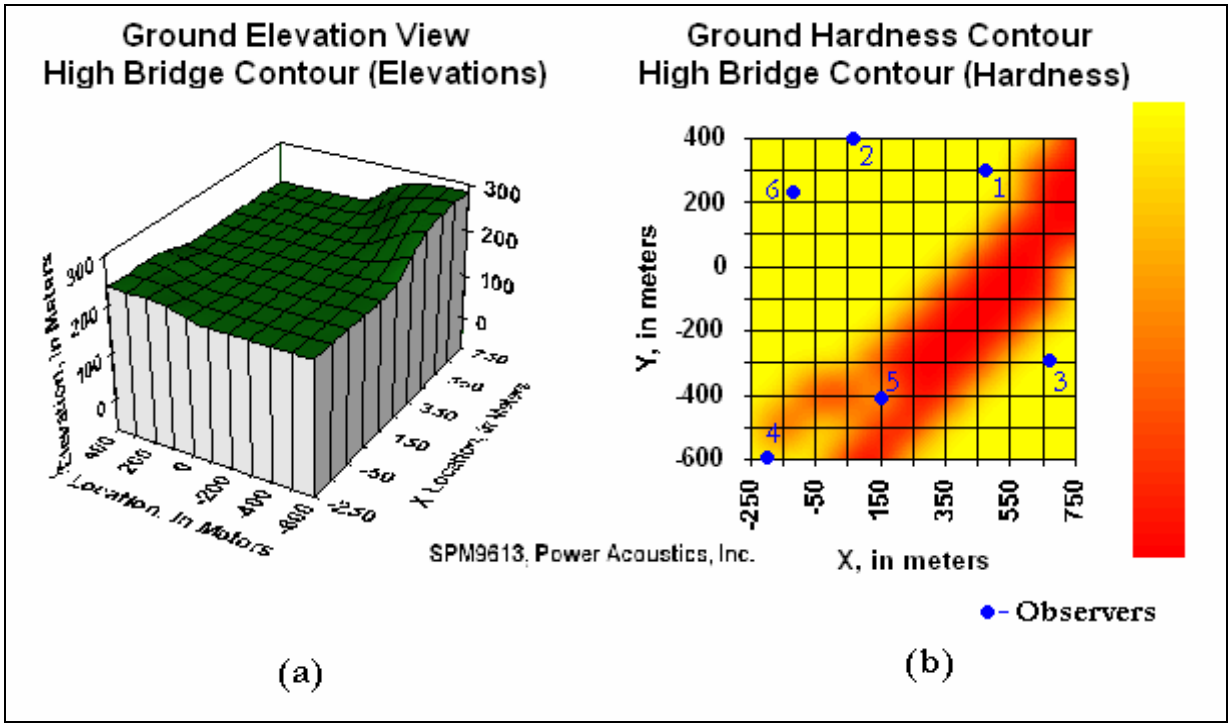


Figure 4-2 Sound Level Contours (dB(A)) – Unsilenced HRSG Stacks

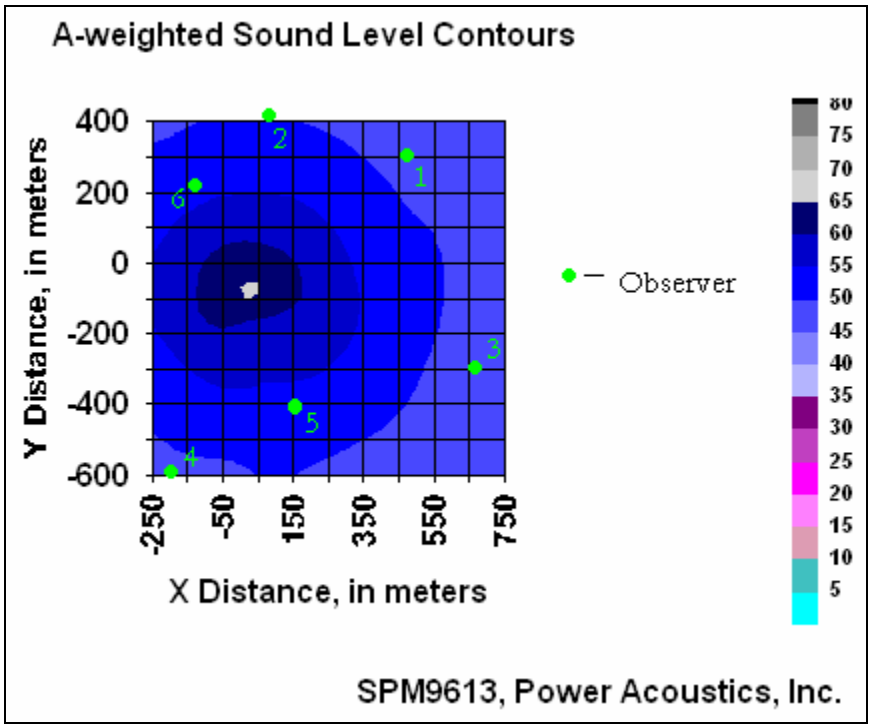


Figure 4-3 Sound Level Contours (dB(A)) – 10 dB HRSG Silencer

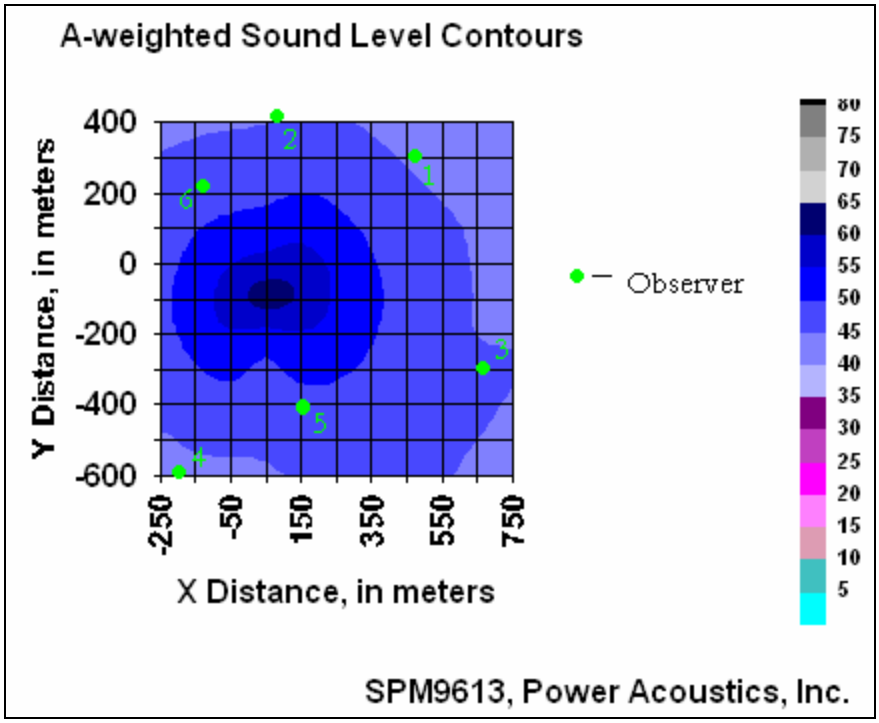


Figure 4-4 Sound Level Contours (dB(A)) – 15 dB HRSG Silencer

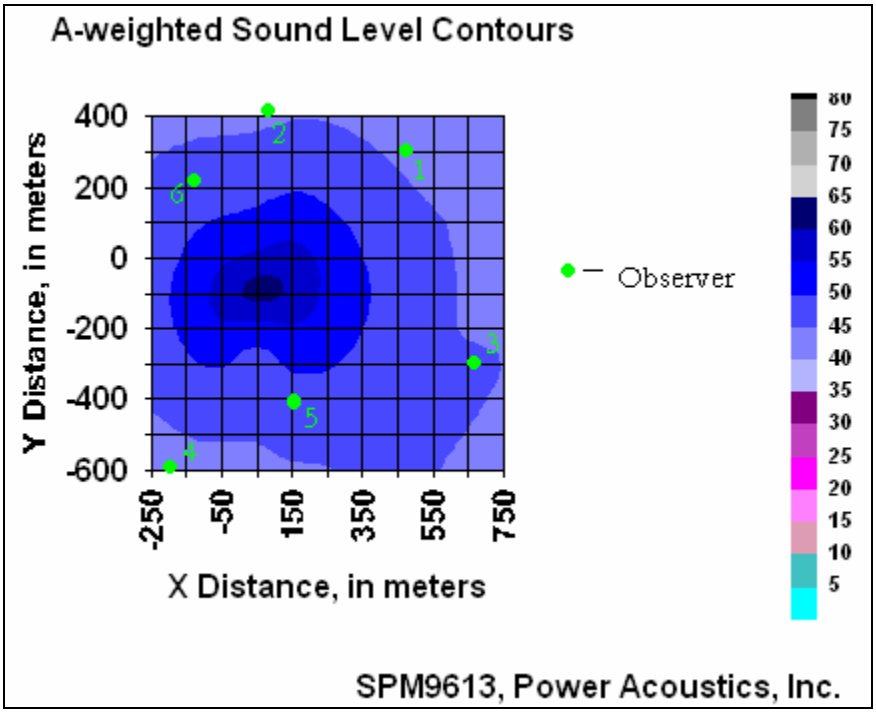


Figure 4-5 (a) Modeling Octave Band Spectra

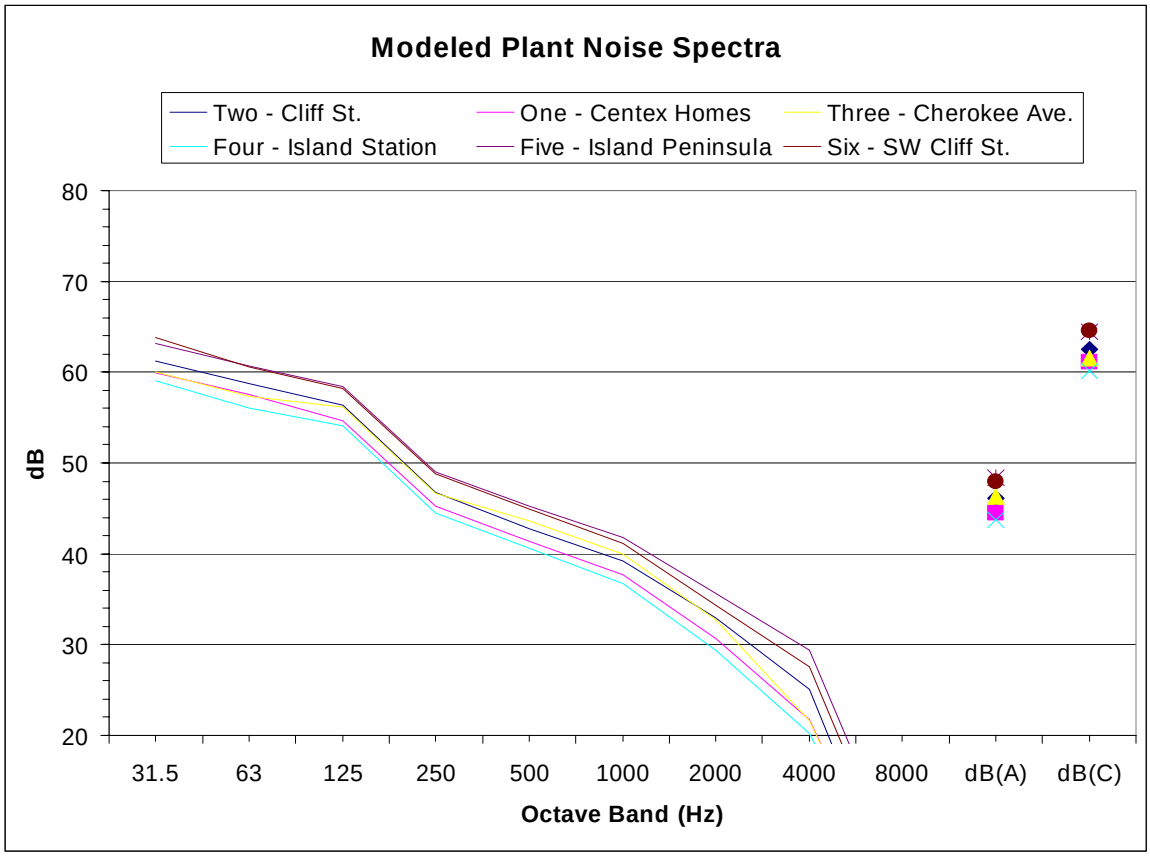


Figure 4-5 (b) Monitoring 1/3 Octave Band Spectrum – Location 4 (12/01/2004 12:28 PM)

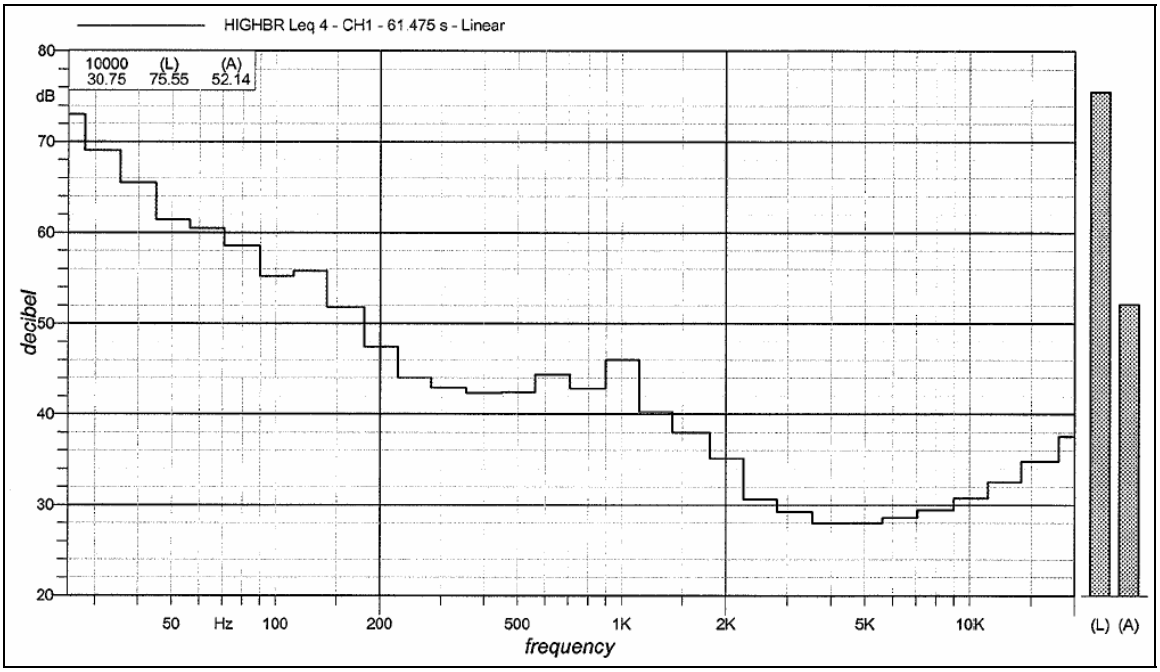
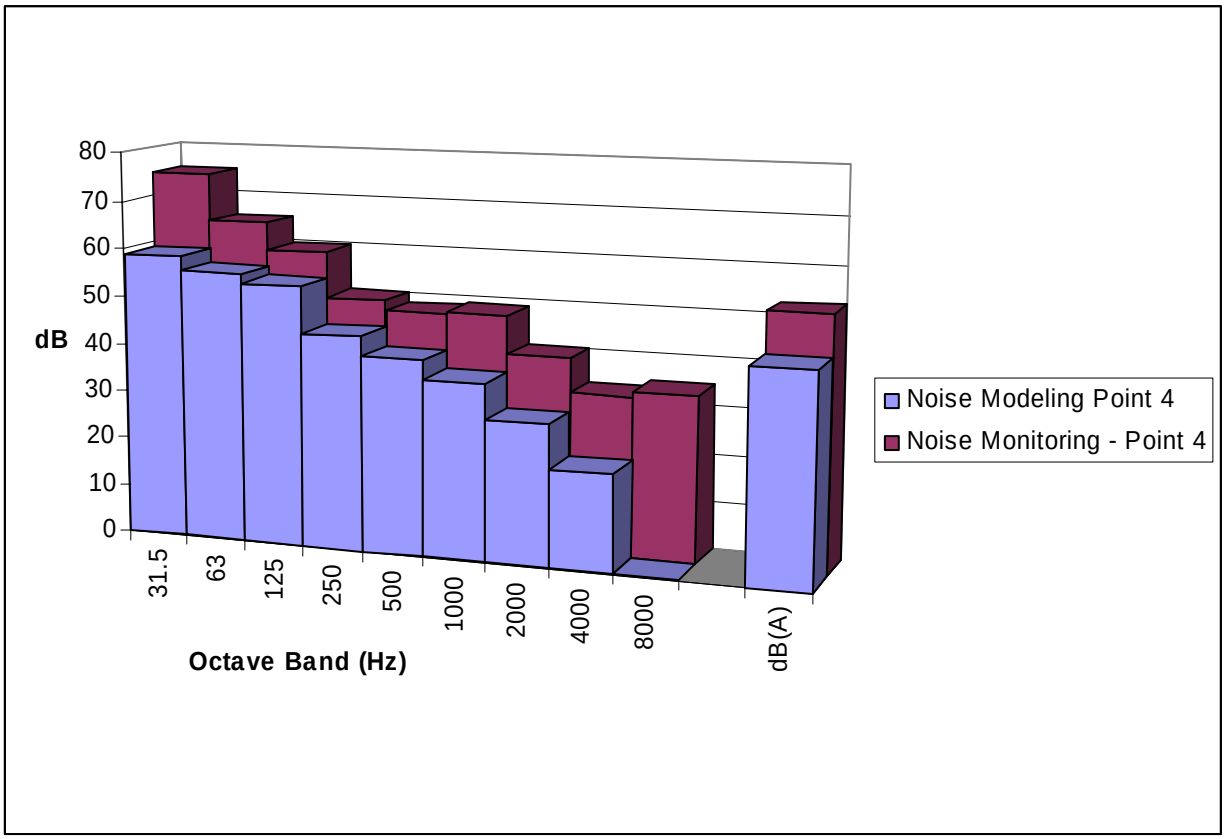



Figure 4-6 Noise Monitoring and Modeling Octave Band Levels