Dear X,

After looking across the region for suitable sites that would be perfect for building the 350-megawatt coal-burning power pant, I have narrowed down the search to two possible sites. Each site fits within the specified requirements of being larger then 5 acres, within 2.5 miles to a railroad, within 1 mile of a road, and next to a lake that holds at least 13,000,000 cubic meters of water. I have classified these sites as Site 1 and Site 2. Each of these sites have their own qualities that make them unique, however each has its own disadvantages as well.

The first site, Site 1, is located next to Beulah Lake in Walworth county. Lake Beulah holds about 16,840,200 cubic meters of water, thus making it large enough to support the power plant. The site which is located on the southern shore of the northeastern part of the lake is also within 1 mile from a road and 2.5 miles of a railroad. This location is also on farmland which means that the construction of the power plant will be easy and hopefully hassle free from any naturally occurring landforms. Since this is farm land only those who farm this small area will be affected compared to the hundreds and thousands if it were to be built on already residential areas. This area also has one of the lowest possibilities for the wind to carry the emissions from the power plat to other highly populated areas. With the wind blowing North West during the Fall and Winter months and Southwest in the summer months. Overall the direction of these wind patterns should lead most of the emissions away from the highly populated areas of Milwaukee and Chicago.

Site 2 is located on the southern shore of Silver Lake in Kenosha county. Although Silver lake holds 27,156,460 cubic meters of water which is more then enough to fulfill the requirements of 13,000,000 cubic meters. It is within 1 mile from a road and 2.5 miles of a railroad. This location is also on farmland which means that the construction of the power plant will be easy and hopefully hassle free from any naturally occurring landforms. Since this is also farm land only those who farm this small area will be affected compared to many more people if it were to be built on already residential areas. However, unlike site one site two has a higher risk of the wind blowing the emissions from the plant into highly populated areas. In the spring the wind blows Southwest which will take the emissions close to the metropolitan area of Chicago. In the Winter and Fall months the winds blow from the southeast which is away from any highly populated areas but it also blows over much of the Lake Geneva area. This may cause a problem if the population were to see their serene area chocked by hazardous fumes. Overall I would suggest building on Site 1 next to Beulah lake and not next to Sliver lake. Even though both are great sites the emissions from the Silver Lake plant could cause problems for the surrounding pristine areas.

Possible Locations for the Midwest Power Plant