

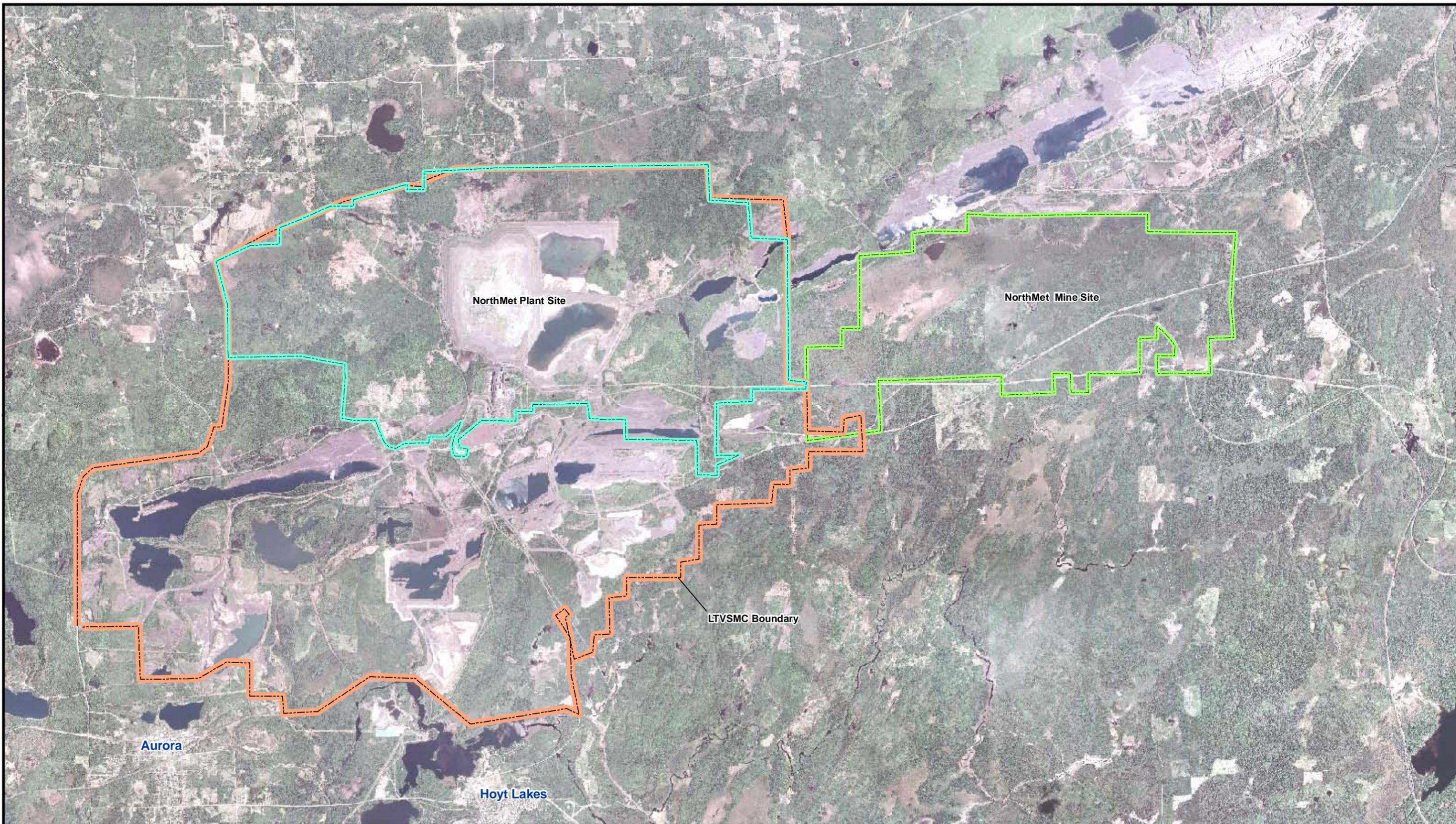
Source: Barr Engineering



**Figure 4.6-1**  
**Wind Frequency Distribution Plot for**  
**Hibbing, Minnesota (2001 - 2005)**



**NorthMet Project**  
**PolyMet Mining, Inc.**  
**St. Louis County, Minnesota**  
**October 2009**



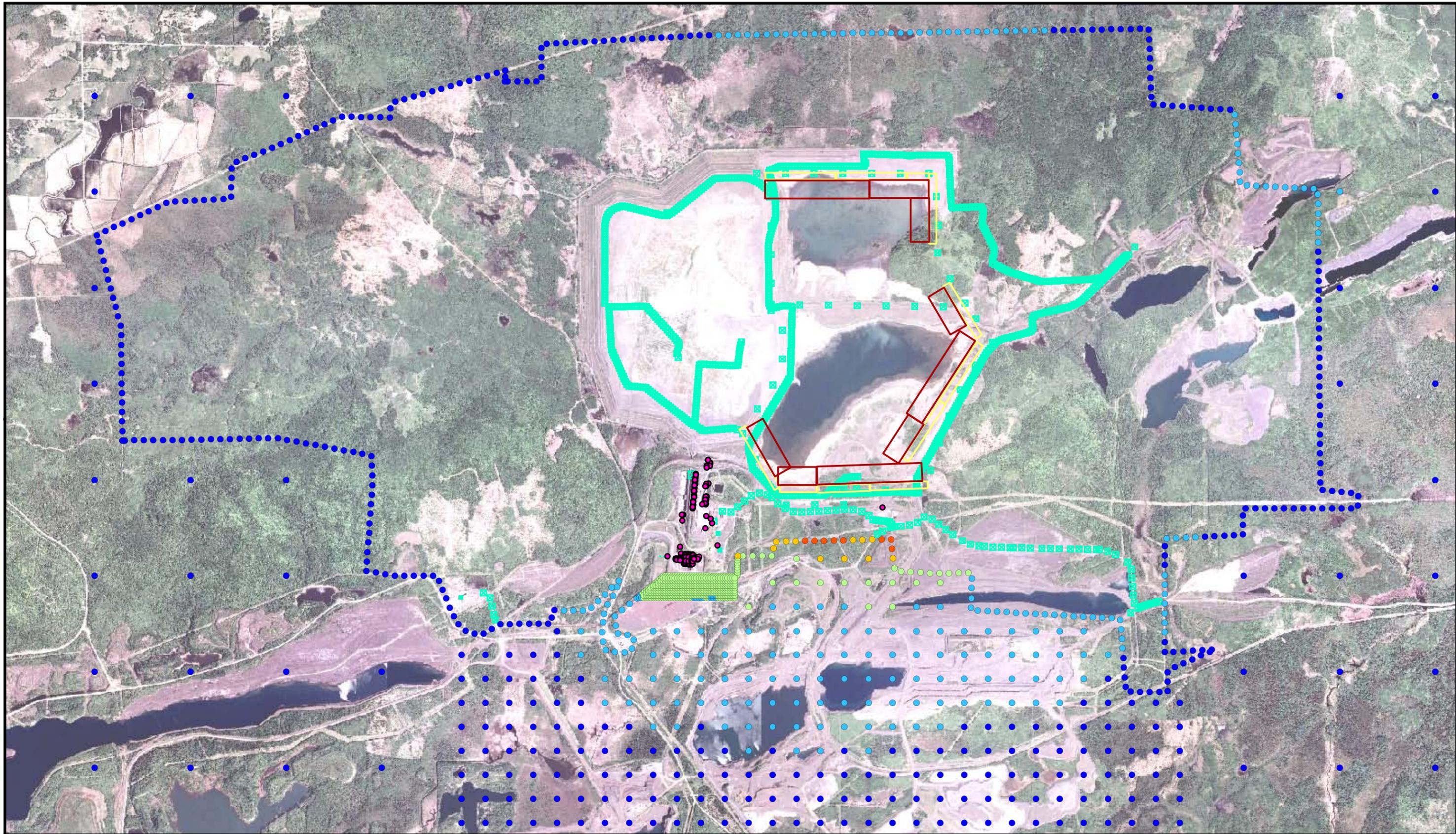
Map Source: Barr Engineering

- LTVSMC Modeling Boundary
- NorthMet Plant Site Modeling Boundary
- NorthMet Mine Site Modeling Boundary



**Figure 4.6-2**  
**NorthMet and LTVSMC Modeling**  
**Boundary Locations**  
 NorthMet Project  
 PolyMet Mining, Inc.  
 St. Louis County, Minnesota

October 2009

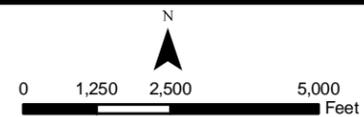


**24 Hour H6H Results (ug/m3)**

- 34 - 45
- 46 - 65
- 66 - 85
- 86 - 100
- 101 - 119

- Point Sources
- LTV Coarse Tailings
- PolyMet Bulk Tailings
- Volume Sources

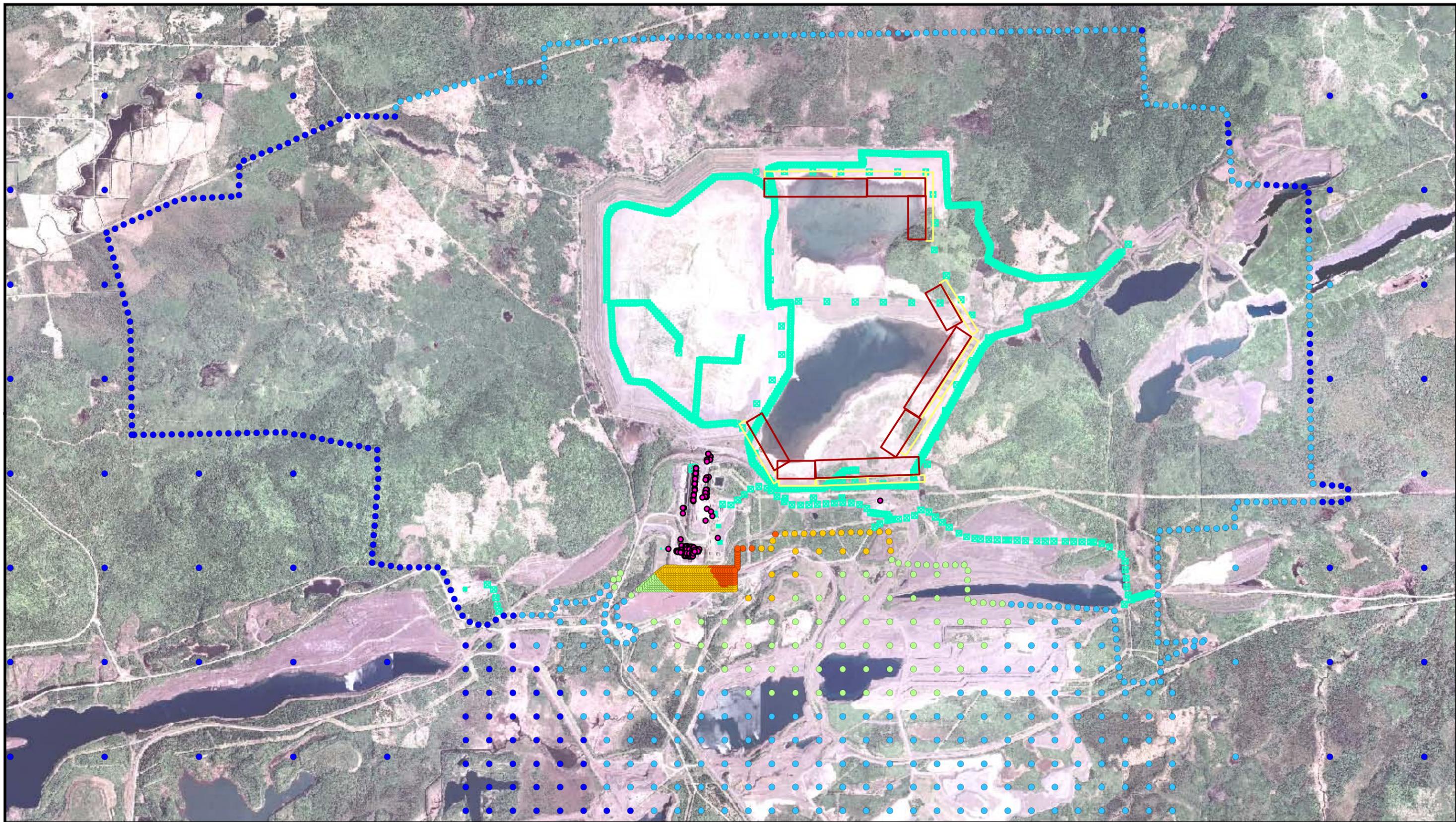
PM10 24 hour NAAQS = 150 ug/m3  
 Background Concentration of 33 ug/m3 Included



**Figure 4.6-3**  
**Plot of PM10 NAAQS 24 hour Highest Sixth High**  
**Concentrations at Plant Site (Proposed Action)**

NorthMet Project  
 PolyMet Mining, Inc.  
 St. Louis County, Minnesota

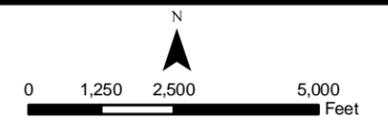
October 2009



**24 Hour H8H Results (ug/m3)**

- 18 - 20
  - 21 - 23
  - 24 - 26
  - 27 - 30
  - 31 - 34
- Point Sources
  - LTV Coarse Tailings
  - PolyMet Bulk Tailings
  - Volume Sources

PM2.5 24 hour NAAQS = 35 ug/m3  
Background Concentration of 17 ug/m3 Included



**Figure 4.6-4**  
**Plot of PM2.5 NAAQS 24 hour Highest Eighth High Concentrations at Plant Site (Proposed Action)**

**NorthMet Project**  
**PolyMet Mining, Inc.**  
**St. Louis County, Minnesota**  
**October 2009**