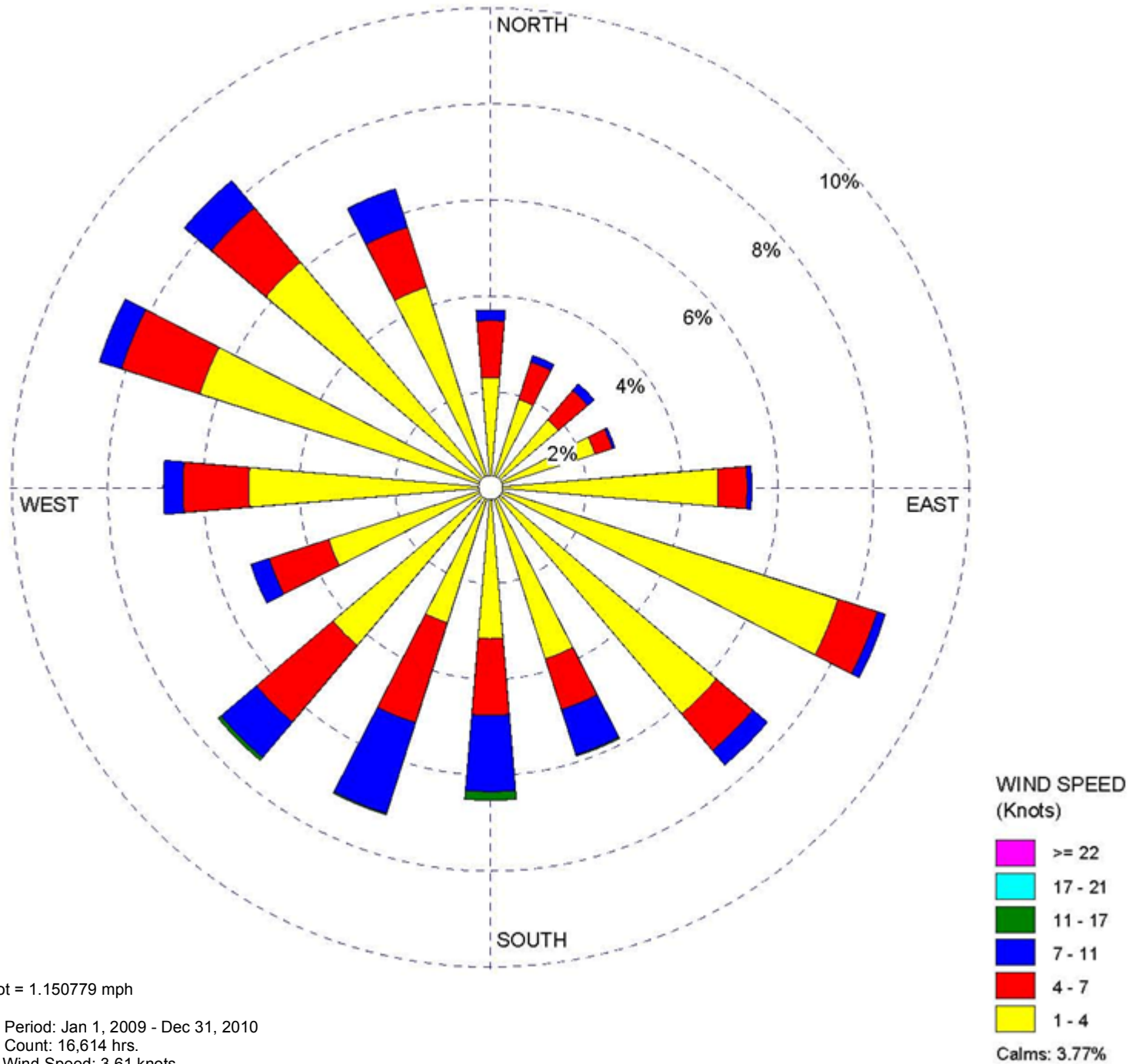


PROJECT SITE WIND ROSE - 2009-2010
ORVANA RESOURCES US CORP.
COPPERWOOD PROJECT
GOGEBIC COUNTY, MICHIGAN



1 knot = 1.150779 mph

Data Period: Jan 1, 2009 - Dec 31, 2010
Total Count: 16,614 hrs.
Avg. Wind Speed: 3.61 knots

Drawn: ARB 7/28/2011

Approved: ARB 7/28/2011

Scale: AS SHOWN

PROJECT NUMBER 60179066

FIGURE NUMBER 202.2.21-3