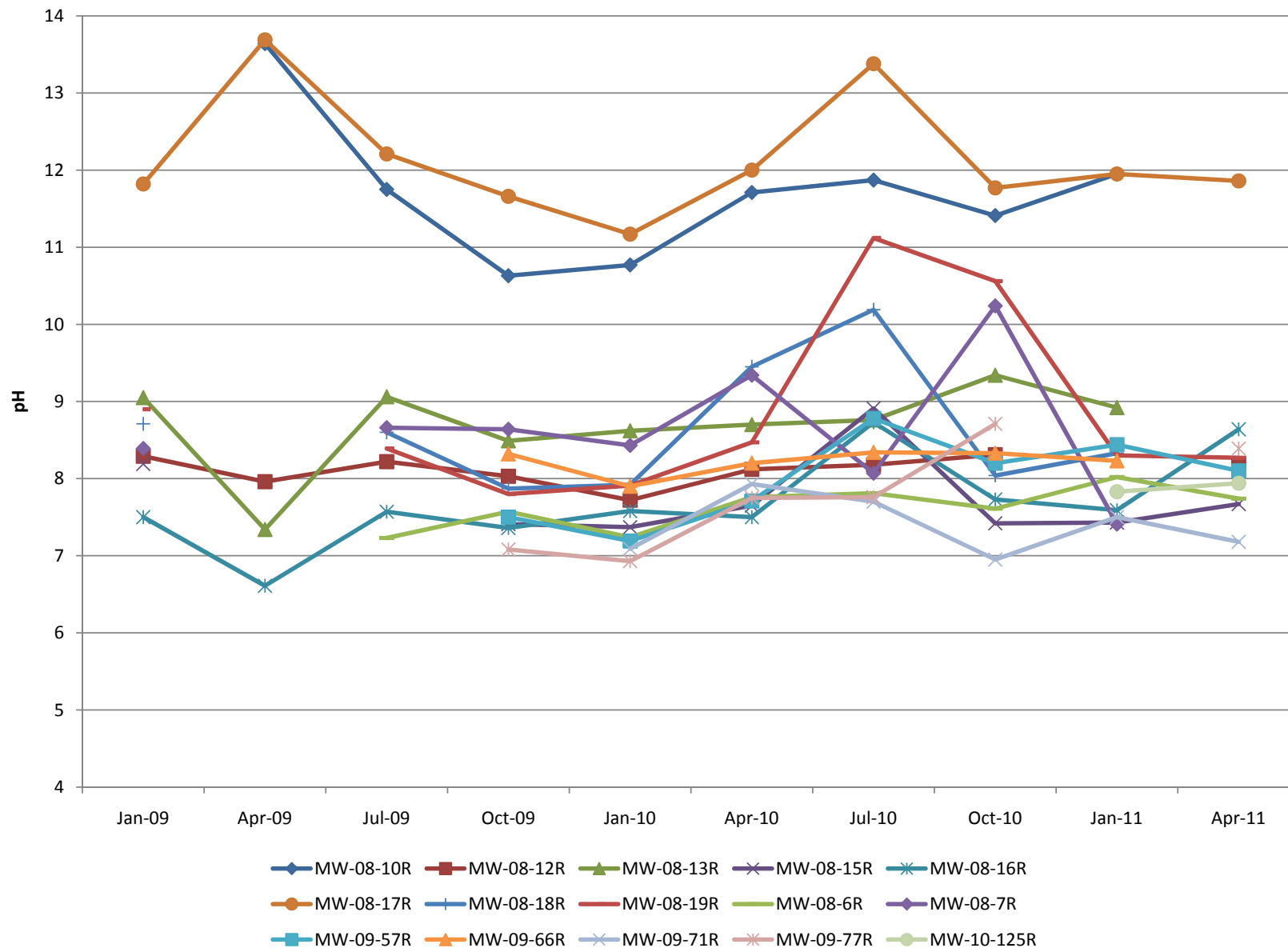




NONESUCH SHALE GROUNDWATER pH TRENDS
ORVANA RESOURCES US CORP.
COPPERWOOD PROJECT
GOGEBIC COUNTY, MICHIGAN

Drawn: ARB 7/28/2011

Approved: ARB 7/28/2011

Scale: AS SHOWN

PROJECT NUMBER 60179066

FIGURE NUMBER 202.2.7-7