

LIST OF SYMBOLS AND ABBREVIATIONS

Å	-	Angstrom
%	-	Percentage
µm	-	Micrometer
Al	-	Alumina
ANN	-	Artificial Neural Networks
AOTP	-	Acousto-Optic Tunable Filter
ASD	-	Analytical Spectral Devices
ASTM	-	American Society for Testing and Materials
AUC	-	Area Under the Curve
AWC	-	Available Water Content
BBW	-	Black Brook Watershed
Ca	-	Calcium
CaCO ₃	-	Calcium Carbonate
CEC	-	Cation Exchange Capacity
CHRIS	-	Compact High Resolution Imaging Spectrometer
cm	-	Centimeter
CO ₃	-	Carbonate
CR	-	Continuum Removal
Cu	-	Copper
DAIS	-	Digital Airborne Imaging Spectrometer
DC	-	Direct Current
DEM	-	Digital Elevation Model
EC	-	Electrical Conductivity
EMR	-	Electromagnetic Radiation
ERTS	-	Earth Resources Technology Satellite
Fe OH	-	Goethite
Fe	-	Iron
Fe ₂ O ₃	-	Hematite

FS	-	Free Swell
g	-	Grams
GPS	-	Global Positioning System
H ₂ O	-	Water
HO	-	Hydroxyl
Hz	-	Hertz
IFOV	-	Instantaneous Field of View
K	-	Potassium
km	-	Kilometer
kPa	-	Kilo-Pascals
LANDSAT	-	Land Satellite
LL	-	Liquid Limits
Mg	-	Magnesium
mg	-	Milli Gram
MIR	-	Middle Infrared
MIVIS	-	Multi Imaging Visible
ml	-	Milli Litre
mm	-	Milli Meter
Mn	-	Manganese
MSS	-	Multispectral Sensor
Na	-	Sodium
NIR	-	Near Infrared
NIRS	-	Near-Infrared Reflectance Spectroscopy
nm	-	Nanometer
P	-	Phosphorous
Ph	-	Potential of Hydrogen
PI	-	Plasticity Indices
PL	-	Plastic Limits
PLSR	-	Partial Least Square Regression
PPM	-	Parts Per Million

PROBA	-	Project for On-Board Autonomy
PSD	-	Particle-Size Distribution
PTF	-	Pedotransfer Functions
ROC	-	Radius of Curvature
RPD	-	Ratio of Performance to Deviation
RS	-	Remote Sensing
Si	-	Silicon
SWIR	-	Shortwave Infrared
Ti	-	Titanium
TIR	-	Thermal Infrared
TM	-	Thematic Mapper
USA	-	United States of America
USGS	-	United States Geological Survey
UV	-	Ultra Violet
VIS	-	Visible
XRF	-	X-Ray Fluorescent