

# **Appendix 14.B**

Key to Soils of the Pinabete ~~Mine Plan~~ Permit Area

## DIAGNOSTIC EPIPEDON OR SUBSURFACE HORIZONS LACKING

### ENTISOL

Less than 35% rock fragments, loamy fine sand or coarser in all subhorizons to 100 cm, lithic or paralithic contact.

**Psamments**

Deeper than 25 cm, slope less than 25% and an irregular decrease in organic matter with depth or remains above 0.2% o.m. to 125 cm

**Fluents**

Other Entisols

**Orthents**

### Psamments

All are Typic Torripsamments

Typic Torripsamment (>100 to Lithic contact)

Eolian or Alluvial

Rock fragments - 0 to 5% throughout

Razito

Eolian or Alluvial

Gravelly substratum, rock fragments

5 to 35% in some horizons

Stumble

### Fluents

All are Typic Torrifluents (>100 cm to lithic contact)

Sandy (loamy fine sand or coarser)

ESP - 20 to 70% upper 50 cm

Color - 7.5YR to 10 YR

Beebe

Sandy (loamy fine sand or coarser)

ESP - <20% upper 50 cm

Color - 2.5YR to 7.5YR

Trail

Coarse-loamy (<18% clay but not sandy)

Salinity - 0 to 16 dS/m

Sodic - <13 SAR

Gilco

Fine-loamy (18 to 35% clay)

Salinity - 0 – 2 dS/m but can be 30

Sodic – 0 – 10 SAR but can be 35

Jocity

## **Orthents**

All are Torriorthents

Lithic contact with 50 cm

**Lithic Torriorthents**

Lithic contact >50 cm

**Typic Torriorthents**

## **Lithic Torriorthents**

Loamy-skeletal

Rock fragments – 35 to 80

Clay content – 18 to 35%

Tsaya

Loamy (Coarse-loamy <18% clay)

Farb

Loamy (Fine-loamy 18 – 35% clay)

Persayo

Clayey (Clayey >35% clay)

Chipeta

## **Typic Torriorthents**

Coarse-loamy (<18% clay)

Fruitland

Fine-loamy (18 – 35% clay)

Turley

## **DIAGNOSTIC SUBSURFACE HORIZON PRESENT**

## **ARIDISOL**

Gypsic or Petrogypsic horizon

**Gypsid**

Argillic or Natric horizon

**Argid**

Calcic horizon

**Calcid**

**Gypsid**

Natric horizon

Fine (>35% clay)

Hoskay

Fine-loamy (18% - 35% clay)

Benally

Argillic horizon

Fine-loamy (18 – 35% clay)

Fruitvale

**Argids**

Natric horizon

**Natrargids**

Calcic horizon

**Calciargids**

Other argids

**Haplargids**

**Natrargids**

Paralithic contact < 50 cm

Huerfano

Paralithic contact 50 – 100 cm

Fine-loamy (By present)

Fajada

Fine-loamy (By lacking)

Muff

Fine

Patel

Paralithic contact >100 cm

Fine-loamy (By lacking)

Uffens

**Calciargids**

Coarse-loamy

Sogzie

Fine-loamy

Substratum - Fine-loamy

Mack

Substratum – Coarse-loamy

Grieta

Substratum – Loamy-skeletal

Mesa

### **Haplargids**

Lithic or Paralithic <50 cm

Monierco

Lithic or paralithic 50 to 100 cm

Bacobi (Kiki)

Lithic or paralithic >100 cm

Coarse-loamy (Bk lacking)

Mayqueen

Coarse-loamy (Bk present)

Shiprock

Fine-loamy (Bk lacking)

Blancot

Fine-loamy

(Bk & Bt present less than 25 cm)

Doak

Fine-loamy

(Bk & Bt present more than 25 cm)

Redlands

### **Calcids**

Coarse-loamy

Nakai

Fine-loamy

Avalon