

Table 36.2-1 Analysis Methods for Topdressing and Root-zone Samples for the Pinabete Permit Area

Analysis	Method
pH	Page, A.L., Miller, R.H. and Keeney, D.R., eds. Methods of Soil Analysis, Part 2 - Chemical and Microbiological Properties. ASA Monograph No. 9, 2nd edition. Madison, Wisconsin: American Society of Agronomy; 1982. Methods 9-3.1.2, pp. 160-161.
Electrical conductivity (EC)	Page, A.L., Miller, R.H. and Keeney, D.R., eds. Methods of Soil Analysis, Part 2 - Chemical and Microbiological Properties. ASA Monograph No. 9, 2nd edition. Madison, Wisconsin: American Society of Agronomy; 1982. Methods 9-3.1.2, pp. 160-161. Method 10-2.3.1.; pp 169. Method 10.3.3; pp 172. Richards, L.A., ed. Diagnosis and Improvement of Saline and Alkali Soils. USDA Handbook No. 60. Washington, D.C.: USDA; 1954. Method (4a), pp. 89.
Soluble calcium (Ca), magnesium (Mg), and sodium (Na)	Extraction: USDA Handbook 60, Method 3a-Saturation Extract, pp. 84. Analysis: Inductively Coupled Argon Plasma Atomic Emission Spectrometer (ICP).
Sodium adsorption ratio (SAR)	Extraction: USDA Handbook 60, Method 3a-Saturation Extract, pp. 84. Analysis: Inductively Coupled Argon Plasma Atomic Emission Spectrometer (ICP). Equation: USDA Handbook 60, Method 20b - Estimation of Exchangeable Sodium - Percentage and Exchangeable - Potassium - Percentage from Soluble Cations, pp. 102.
Texture	EPA 300/2-78-054. Field and Laboratories Methods Applicable to Overburden and Mine Soils. Method 3.4.3.5, pg 122. Black, C.A., Evans, D.D., White, J.L., Ensminger, L.E., and Clark, F.E. ASA Monograph No. 9; Methods of Soil Analysis, Part One. Method 43-5, p. 562. ASTM D422-68.
Saturation percent	Richards, L.A., ed. Diagnosis and Improvement of Saline and Alkali Soils. USDA Handbook No. 60, Washington, D.C.: USDA; 1954. Method 27a, pp. 107. Miller, R.H. and Keeney, D.R., eds. Methods of Soil Analysis: Part 2 - Chemical and Microbiological Properties. ASA Monograph No. 9, 2nd edition. Madison, Wisconsin: American Society of Agronomy; 1982: Method G10.2.3 pp. 169.

Analysis	Method
Boron	Page, A.L., Miller, R.H., and Keeney, D.R., eds. Methods of Soil Analysis: Part 2 - Chemical and Microbiological Properties. ASA Monograph No. 9. 2nd Edition. Madison, Wisconsin: American Society of Agronomy; 1982. Method 25-9.1, pp. 443-444.
Soluble selenium	Page, A.L., Miller, R.H., and Keeney, D.R., eds. Methods of Soil Analysis: Part 2 - Chemical and Microbiological Properties. ASA Monograph No. 9. 2nd Edition. Madison, Wisconsin: American Society of Agronomy; 1982. Method 25-9.1, pp. 443-444.
Total selenium, bajo, sexto	Analytical Chemistry, Vol. 50(4), 649-651-1978, Modified.
CaCO ₃ percent	USDA. Handbook 60, 1954, Method 23c, pp. 105.
Neutralization potential	USDA. Handbook 60, 1954, pp. 105, Methodology 23c. EPA 600/2-78-054. Field and laboratory methods applicable to overburden and mine soils method 3.2.3., pp. 47-50.
Total sulfur	Field and Laboratory Methods Applicable to Overburdens and Mine soils. EPA 600/2-78-054, Method 3.2.6., 1978.
Total sulfur - acid-base	Field and Laboratory Methods Applicable to Overburdens and Mine soils. EPA 600/2-78-054, Method 3.2.6 and 1.3.1., 1978.
Sulfate sulfur percent	ASTM D 2492-84 with modification. Field and Laboratory Methods Applicable to Overburdens and Mine soils. EPA 600/2-78-054, Method 3.2.6., 1978. Mine Spoil Potentials for Soils and Water Quality. EPA 670/2-74-070. Pg. 49.
Pyritic sulfur percent	ASTM D 2492-84 with modification. Field and Laboratory Methods Applicable to Overburdens and Mine soils. EPA 600/2-78-054, Method 3.2.6., 1978. Mine Spoil Potentials for Soils and Water Quality. EPA 670/2-74-070. Pg. 49.
Organic sulfur percent	ASTM D 2492-84 with modification. Field and Laboratory Methods Applicable to Overburdens and Mine soils. EPA 600/2-78-054, Method 3.2.6., 1978. Mine Spoil Potentials for Soils and Water Quality. EPA 670/2-74-070. Pg. 49.
Pyritic sulfur acid-base	Field and Laboratory Methods Applicable to Overburdens and Mine soils. EPA 600/2-78-054, Method 1.3.1., 1978.
Pyritic sulfur - acid-base potential	Field and Laboratory Methods Applicable to Overburdens and Mine soils. EPA 600/2-78-054, Method 1.3.1., 1978.