



Standard Terminology Relating to Water¹

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absolute filter rating, *n*—particle size above which 100 % of particles that are trapped on or within the filter medium.

D6161

absorbance, *n*—logarithm to the base 10 of the reciprocal of the transmittance (*T*). $A = \log_{10} (1/T) = -\log_{10} T$.

D4691

absorption, *n*—release for desorption holding of a substance within a solid by cohesive or capillary forces.

D6161

absorptivity, *n*—absorbance (*A*) divided by the product of the sample path length (*b*) and the concentration (*c*). $a = A/bc$.

D4691

accelerated erosion, *n*—erosion at a rate greater than geologic or natural erosion.

D4410

DISCUSSION—Accelerated erosion is usually associated with anthropogenic activities and usually reduces plant cover and increases runoff.

acceptable holding time, *n*—any period of time less than or equal to the maximum holding time.

D4841

acceptable verification ratio (AVR)—ratio of the difference between measured value of the verification sample and the known value added to the verification sample to the square root of the sum of the squares of their associated combined standard uncertainties. See Eq. 8 in 16.2.13.

D7282

accretion, *n*—process of sediment accumulation.

D4410

accumulator, *n*—pulsation dampener installed on the suction and/or discharge lines of pumps, generally plunger type, to minimize pressure surges and provide uniformity of flow.

D6161

accuracy, *n*—a measure of the degree of conformity of a value generated by a specific procedure to the assumed or accepted true value, and includes both precision and bias.

accuracy, *n*—closeness of agreement between an observed value and an accepted reference value. Where an accepted reference value is not available, accuracy is a description of a measure of the degree of conformity of a value generated

by a specific procedure to the assumed or accepted true value, including both precision and bias.

D6161

accuracy, *n*—measure of the degree of conformity of a single test result generated by a specific procedure to the assumed or accepted true value, and includes both precision and bias.

D2777

accuracy, *n*—proportion of the observed count to the true density of a sample.

D5392

accuracy, *n*—refers to how close a measurement is to the true or actual value. (See Terminology D1129.)

D5906

acid error, *n*—in very acid solutions, the activity of water is reduced (less than unity) causing a non-Nernstian response in glass electrodes. A positive error in the pH reading results.

D4127

acidity, *n*—the quantitative capacity of aqueous media to react with hydroxyl ions.

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D6161

acidity, free mineral, *n*—the quantitative capacity of aqueous media to react with hydroxyl ions to pH 4.3.

acidity, theoretical free mineral, *n*—the free mineral acidity that would result from the conversion of the anions of strong acids in solution to their respective free acids.

acoustic path, *n*—straight line between the centers of two acoustic transducers.

D5389

acoustic path length, *n*—face-to-face distance between transducers on an acoustic path.

D5389

acoustic transducer, *n*—device that is used to generate acoustic signals when driven by an electric voltage, and conversely, a device that is used to generate an electric voltage when excited by an acoustic signal.

D5389

acoustic travel time, *n*—time required for an acoustic signal to propagate along an acoustic path, either upstream or downstream.

D5389

action level, *n*—concentration of the analyte of concern at which some further action is required or suggested.

D6850

¹ This terminology is under the jurisdiction of ASTM Committee D19 on Water and is the direct responsibility of Subcommittee D19.02 on Quality Systems, Specification, and Statistics.

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