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UNITS AND ABBREVIATIONS

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<th>Abbreviation</th>
<th>Definition</th>
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<tr>
<td>cm</td>
<td>centimeter</td>
<td></td>
</tr>
<tr>
<td>d</td>
<td>day</td>
<td></td>
</tr>
<tr>
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<td>degree centigrade</td>
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</tr>
<tr>
<td>g</td>
<td>gram</td>
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<tr>
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</tr>
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<td>kg</td>
<td>kilogram</td>
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<td>liter</td>
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<tr>
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<td>millisiemen</td>
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</tr>
<tr>
<td>M</td>
<td>molar</td>
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</tr>
<tr>
<td>ppb</td>
<td>parts per billion</td>
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<td>ppm</td>
<td>parts per million</td>
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</tr>
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<tr>
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<tr>
<td>w</td>
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<table>
<thead>
<tr>
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<tbody>
<tr>
<td>A</td>
<td>Accumulation index</td>
</tr>
<tr>
<td>HOAc</td>
<td>Acetic acid</td>
</tr>
<tr>
<td>AMD</td>
<td>Acid Mine Drainage</td>
</tr>
<tr>
<td>APHA</td>
<td>American Public Health Association</td>
</tr>
<tr>
<td>ASTM</td>
<td>American Society for Testing and Materials</td>
</tr>
<tr>
<td>NH₄NO₃</td>
<td>Ammonium nitrate</td>
</tr>
<tr>
<td>AA</td>
<td>Atomic Absorption</td>
</tr>
<tr>
<td>AAS</td>
<td>Atomic Absorption Spectrometer</td>
</tr>
<tr>
<td>AES</td>
<td>Atomic Emission Spectroscopy</td>
</tr>
<tr>
<td>BaCl₂</td>
<td>Barium chloride</td>
</tr>
<tr>
<td>H₃BO₃</td>
<td>Boric acid</td>
</tr>
<tr>
<td>BA</td>
<td>Bottom Ash</td>
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</table>
Cd   Cadmium
Ca   Calcium
CaCl₂  Calcium chloride
CEA  Central Electricity Authority
Cl⁻  Chloride
Cr   Chromium
CCB  Coal Combustion By-products
CCP  Coal Combustion Product
CUB  Coal Utilization By-products
Cu   Copper
DTPA  Diethylene triamine penta acetic acid
DS   Disposal Site
DSF  Disposal Site Field
DW   Down wind
C₆daf  dry ash free carbon concentration
EC   Electrical conductivity
ESP  Electrostatic Precipitator
EF   Enrichment Factor
EPA  Environmental Protection Agency
EDTA  Ethylene diamine tetra acetic acid
EU   European Union’s
FAS  Ferrous ammonium sulphate
FFGD  FGD Flue Gas Desulfurization
FBC  Fluidized Bed Combustion
F   Fluoride
FA   Fly Ash
FFCW  Fossil Fuel Combustion Wastes
I-geo Geo-accumulation index
MW   Gram molecular weight
GW   Ground Water
GNDTPP  Guru Nanak Dev Thermal Power Plant
HMs  Heavy Metals
HCl  Hydrochloric acid
HF   Hydrofluoric acid
NH₂OH·HCl  Hydroxyl ammonium hydrochloride
ICP  Inductively Coupled Plasma
ISO  International Standards Organization
IUPAC  International Union of Pure and Applied Chemistry
L/S  liquid to solid ratio
Mg²⁺  Magnesium
MgCl₂  Magnesium Chloride
MCL  Maximum contaminant level
M  Molar
MSW  Municipal Solid Waste
NETL  National Energy Technology Laboratory
Ni  Nickel
NO₃⁻  Nitrate
HNO₃  Nitric acid
NOₓ  Nitrogen oxide
N  Normality
PM  Particulate matter
PSA  Particle Size Analysis
HClO₄  Perchloric acid
PO₄³⁻  Phosphate
PTFE  Poly tetra fluoro ethylene
PAH  Polyaromatic Hydrocarbons
PE  polyethylene
PTF  Polytetrafluorene
KCL  Potassium Chloride
PC  Pulverized Coal combustion
Rpm  Revolution per minute
SEM-EDX  Scanning Electron Microscopy-Energy Dispersive X-ray micro analysis
SE  Sequential Extraction
SEPs  Sequential Extraction Procedures
NaOAc  Sodium acetate
NaOH  Sodium hydroxide
NaNO₃  Sodium nitrate
SM&T  Standards, Measurements and Testing Program
SS  Sub Surface
SOₓ  Sulfur oxide
<table>
<thead>
<tr>
<th>Abbreviation</th>
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</tr>
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<tbody>
<tr>
<td>S</td>
<td>Surface</td>
</tr>
<tr>
<td>TA</td>
<td>Total Alkalinity</td>
</tr>
<tr>
<td>TDS</td>
<td>Total Dissolved Solid</td>
</tr>
<tr>
<td>TH</td>
<td>Total Hardness</td>
</tr>
<tr>
<td>TOC</td>
<td>Total organic carbon</td>
</tr>
<tr>
<td>TCLP</td>
<td>Toxicity Characteristic Leaching Procedure</td>
</tr>
<tr>
<td>USDA</td>
<td>United States Department of Agriculture</td>
</tr>
<tr>
<td>USA</td>
<td>United states of America</td>
</tr>
<tr>
<td>UP</td>
<td>Up wind</td>
</tr>
<tr>
<td>WHO</td>
<td>World Health Organization</td>
</tr>
<tr>
<td>XRD</td>
<td>X-ray diffraction analysis</td>
</tr>
<tr>
<td>Zn</td>
<td>Zinc</td>
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