

ACRONYMS

1C	One-component
2D	Two-dimensional
3D/3C	Three-dimensional/Three-component
AFC	Accelerated Facility Characterization
ANL	Argonne National Laboratory
ARA	Applied Research Associates, Inc.
AUVSI	Association for Unmanned Vehicle Systems International
AVS	Application Visualization System
BEL	Brochfield Engineering Laboratory, Inc.
BNL	Brookhaven National Laboratory
CCD	charge coupled device
CEM	Continuous Emission Monitor
CHCs	Chlorinated Hydrocarbons
CLP	Contract Laboratory Program
CMST	Characterization, Monitoring and Sensor Technology
CMST-CP	Characterization, Monitoring and Sensor Technology Crosscutting Program
CPAC	Center for Process Analytical Chemistry (at the University of Washington)
CPG	Coplanar Grid
CPT	Cone Penetrometer Truck
CPU	Central Processing Unit
CRADA	Cooperative Research and Development Agreement
CSAMT	Controlled Source Audiofrequency Magnetotelluric
CSCT	Consortium for Site Characterization Technologies
CT	Computerized Tomography
CVD	Chemical Vapor Disposition
CZT	Cadmium Zinc Telluride
D&D	Decontamination and Decommissioning Focus Area

DIAL	Diagnostic Instrumentation and Analysis Laboratory (Mississippi State University)
DNAPLs	Dense Non-Aqueous Phase Liquids
DoD	Department of Defense
DOE	Department of Energy
DOSB	D-Area Oil Seepage Basin
DOO	data quality objectives
DST	double-shelled storage tank
DWPF	defense waste processing facility
EM	Office of Environmental Management
EM-30	Office of Waste Management
EM-40	Office of Environmental Restoration
EM-50	Office of Science and Technology
EM-60	Office of Nuclear Material and Facility Stabilization
EPA	Environmental Protection Agency
ERT	Electrical Resistance Tomography
ESC	Expedited Site Characterization
ETG	Environmental Technology Group
FFD	fuel fluorescence detector
FLAA	flame atomic absorption
FSU	Former Soviet Union
FTIR	Fourier Transform Infrared Spectroscopy
FY	Fiscal Year
GC/MS	gas chromatography/mass spectrometry
GFAA	Graphite Furnace Atomic Absorption
GIS	Geographical Information System
GPR	Ground Penetrating Radar
GW	Ground water
HCl	Hydrochloric Acid
HLW	High-Level Waste

IAG	Interagency Agreement
ICP-MS	inductively coupled plasma mass spectrometry
ICPP	Idaho Chemical Processing Plant
ICT	Innovative Characterization Technology
IIA	Innovative Investment Area
INEL	Idaho National Engineering Laboratory
ITMS	Ion Trap Mass Spectrometer
JCCEM	Joint Coordinating Committee on Environmental Management
LANL	Los Alamos National Laboratory
LASS	Laser Spark Spectroscopy
LDUA	Light Duty Utility Arm
LIBS	Laser-Induced Breakdown Spectroscopy
LIF	Laser-Induced Florescence
LIFI	Laser-Induced Florescence Imaging
LLNL	Lawrence Livermore National Laboratory
LOWs	liquid observation sells
LSERs	linear solvation energy relationships
LSIT	Large Scale Infiltration Test
LSFA	Landfill Stabilization Focus Area
MDMI	monodisperse dried microparticulate injector
METC	Morgantown Energy Technology Center
MINATOM	Ministry of Atomic Energy of the Russian Federation
MSE-TA	MSE Technology Application, Inc.
MSU	Mississippi State University
MWFA	Mixed Waste Characterization Treatment & Disposal Focus Area
NAPLs	Non-Aqueous Phase Liquids
NDA	Nondestructive Assay
NDE	Non-destructive Evaluation
NFA	No Further Action

NN	neural network
OCVZ	Organic Contaminated Vadose Zone
OGI	Oregon Graduate Institute
ORNL	Oak Ridge National Laboratory
ORTA	Office of Research and Technology Applications
OST	Office of Science and Technology
OTD	Office of Technology Development
P-Wave	Compressional wave
PAWS	portable acoustic wave sensor
PC	Photo conductive
PCE	polychloroethylene
PE	Performance Evaluation
PECVD	photo enhanced chemical vapor deposited
PI	Principal Investigator
PNNL	Pacific Northwest National Laboratory
POC	Physical Optics Corporation
POLO	position locator device
ppb	parts per billion
ppm	parts per million
PRDA	Program Research and Development Announcement
QA/QC	Quality Assurance/Quality Control
R&D	research and development
RCI	Rapid Commercialization Initiatives
RCRA	Resource Conservation and Recovery Act
ROA	Research Opportunity Announcement
RTR	Real-Time Radiography
RWMC	Radioactive Waste Management Complex
SAW	surface acoustic wave
SBIR	Small Business Innovative Research
SCAPS	Site Characterization and Analysis Penetrometer System

SDx	Spectrum Diagnostix
SERDP	Strategic Environmental Research and Development Program
SIMS	Secondary Ion Mass Spectroscopy
SMDE	static mercury drop electrode
SNL	Sandia National Laboratory
SOPT	state-of-the-practice technologies
SRS	Savannah River Site
SSC	site specific contaminants
SST	Single Shell Tank
STCGs	Site Technology Coordination Groups
SVOC	Semi-Volatile Organic Compound
TCE	trichloroethylene
TCLP	Toxicity Characteristic Leaching Procedure
TDGC/MS	Time Domain Gas Chromatography/Mass Spectrometry
TDL	tunable-diode-laser
TDR	time domain reflectometry probe
TFA	Tanks Focus Area
TIE	Technical Information Exchange
TIRS	Transient Infrared Spectroscopy
TPM	Technical Program Manager
TPO	Technical Program Office
TRP	Technology Reinvestment Project
TRU	Transuranic
TSM	thickness shear mode
TTP	Technical Task Plan
TVS	Transportable Vitrification System
USGS	United States Geological Survey
USTs	underground storage tanks
UV	Ultra-Violet
VLF	Very Low Frequency



VOC	Volatile Organic Compound
WETO	Western Environmental Technology Office
WHC	Westinghouse Hanford Corporation
WSRC	Westinghouse Savannah River Company