

ACRONYMS

$\mu\text{g/L}$:	micrograms per liter
$\mu\text{g/m}^3$:	micrograms per cubic meter
1,1-DCE:	1,1-dichloroethene

A

ADE:	average daily exposure
AER:	air exchange rate
AF:	attenuation factor
AF_{gw} :	groundwater concentration attenuation factor
AF_{sg} :	soil gas concentration attenuation factor
AHU:	air handling unit
ALM:	asphalt latex membrane
APU:	air purifying unit
AST:	aboveground storage tank
ATD:	analytical thermal desorption
$\text{Atm}\cdot\text{m}^3\text{ mol}^{-1}$:	one standard atmosphere per cubic meter per mole
AVMB:	aerobic vapor migration barrier

B

bgs:	below ground surface
BPC:	building pressure control
BTEX:	benzene, toluene, ethylbenzene, and xylenes

C

CAG:	community advisory group
cc:	cubic centimeter
CCAH:	Construction Code Applicable to Homes
CEP:	community engagement plan

CERCLA:	Comprehensive Environmental Response, Liability, and Accountability Act
CGI:	combustible gas indicator
CH ₄ :	methane
C/I:	commercial/industrial
CIA:	indoor air concentration
CIP:	community involvement plan
CM:	composite membrane
CO:	carbon monoxide
COC:	contaminant (or constituent or chemical) of concern
COPC:	contaminant (or chemicals) of potential concern
CPSi:	cancer potency slope, inhalation
CPT:	cone penetrometer testing
CQA:	construction quality assurance
CRDS:	cavity ring-down spectrometer
CSIA:	compound-specific isotope analysis
CSM:	conceptual site model
CSP:	concrete surface profile
CSV:	crawl-space ventilation
CTP:	communication test points
CVOC:	chlorinated volatile organic compound

D

DCA:	1,2-dichloroethane
DCE:	1,2-dichloroethylene
DCM:	dichloromethane
DELCD:	dry electrolytic conductivity detector
DNAPL:	dense nonaqueous-phase liquid
DQO:	data quality objective

E

EC:	engineering control
ECD:	electron-capture dissociation
EDB:	ethylene dibromide, also known as 1,2-dibromoethane
EDC:	ethylene dichloride, also known as 1,2-dichloroethane
EFC:	epoxy floor coating
EI:	environmental indicator
E&P:	oil exploration and production
EPC:	exposure point concentration
EPDM:	ethylene propylene diene monomer
ER:	exchange rate
ESA:	environmental site assessment
ESTCP:	Environmental Security Technology Certification Program
ETBE:	ethyl tert-butyl ether
eV:	electron volts
EVOH:	ethylene vinyl alcohol

F

FAQ:	frequently asked questions
FID:	flame ionization detector
ft:	feet
FTOH: f	fluorotelomer alcohol

G

GAC:	granulated activated carbon
GC:	gas chromatography or gas chromatograph
GC/CRDS:	gas chromatograph / cavity ring-down spectrometer
GC/DELCD:	gas chromatograph / dry electrolytic conductivity detector
GC/ECD:	gas chromatograph / electron capture detector

GC/MS: gas chromatography / mass spectrometry

GW: groundwater

H

HASP: health and safety plan

HDPE: high-density polyethylene

Hg: mercury

HHRA: human health-risk assessment

HI: hazard index

HLC: Henry's Law coefficient

HQ: hazard quotient

HVAC: heating, ventilation, and air conditioning

HVS: high-volume soil vapor sampling

I

IA: indoor air

IC: institutional control

ID: inner diameter

ILCR: incremental lifetime cancer risk

in: inches

in-H₂O: 1 inch of water column

IRIS: Integrated Risk Information System

ITS: Indicator, Tracer, Surrogate program from the U.S. Environmental Protection Agency

IUR: inhalation unit risk

J

J&E: Johnson and Ettinger

L

L: liter

LADE: lifetime average daily exposure

LEL:	lower explosive limit
LFL:	lower flammability limit
LIF:	laser-induced fluorescence
LLDPE:	linear low-density polyethylene
L/min:	liter per minute
LNAPL:	light nonaqueous-phase liquid
LOE:	line of evidence
LOQ:	limit of quantitation
L_R :	diffusion reaction distance
L_T :	thickness of the soil layer
LUC:	land use control

M

MCLs:	maximum containment levels
MDL:	method detection limit
mg/L:	milligrams per liter
mg/m ³ :	milligrams per cubic meter
MGP:	manufactured gas plant
Mil:	one-thousandth of an inch
MIP:	membrane interface probe
MLE:	multiple lines of evidence
mL/min:	milliliters per minute
mm Hg:	millimeter of mercury
MPE:	multiphase extraction
MS:	mass spectrometry
MSDS:	material safety data sheet
MTBE:	methyl tertiary-butyl ether
MUF:	modified uncertainty factor

N

NAPL:	nonaqueous-phase liquid
NCP:	National Oil and Hazardous Substances Pollution Contingency Plan
NM:	not measured or reported
NO ₂ :	nitrogen dioxide

O

O ₂ :	oxygen gas
OA:	outdoor air
OAT:	one-at-a-time
OD:	outside diameter
OM&M:	operation, maintenance, and monitoring
OVA:	organic vapor analyzer

P

Pa:	Pascal (unit)
PA:	Program Advisor
PADS:	passive adsorptive diffusion samplers
PAH:	polycyclic aromatic hydrocarbons
PCB:	polychlorinated biphenyls
PCE:	tetrachloroethene (also called perchloroethene and tetrachloroethylene)
PDB:	passive diffusion bag
PEEK:	tubing made from polyether ether ketone
PFAS:	per- and polyfluoroalkyl substances
PFCA:	perfluoroalkyl carboxylic acid
PFE:	pressure field extension
pg:	picogram
PHC:	petroleum hydrocarbon
PID:	photoionization detector

ppbv:	parts per billion by volume
ppm:	parts per million
ppmv:	parts per million by volume
PPRTV:	Provisional Peer Reviewed Toxicity Values
PQL:	practical quantitation limit
PRG:	preliminary remediation goals
PSSV:	passive sub-slab venting
PVC:	polyvinyl chloride
PVDF:	polyvinylidene
PVI:	petroleum vapor intrusion

Q

QA:	quality assurance
QAPP:	quality assurance project plan
QA/QC:	quality assurance/quality control
QC:	quality control

R

RAO:	remedial action objective
RCRA:	Resource Conservation and Recovery Act
RfC:	reference concentration
RfD:	reference dose
RfDi:	reference dose, inhalation
RH:	relative humidity
RL:	reporting limit
RME:	reasonable maximum exposures
ROD:	record of decision
ROI:	radius of influence
RP:	responsible party

RSL: Regional Screening Level

RTM: real-time monitoring

RVR: room ventilation rate

S

SAP: sampling and analysis plan

scfm: square cubic feet per minute

SDR: standard dimensional ratio

SIM: selective ion monitoring

SL: screening level

SMD: sub-membrane depressurization

SOP: standard operating procedure

SSAF: slab-specific attenuation factor

SSD: sub-slab depressurization

SSM: single-sheet membrane

SSP: sub-slab pressurization

SSV: sub-slab ventilation

SVE: soil vapor extraction

SVOC: semi-volatile organic compounds

T

TAME: tert-amyl methyl ether, an oxygenate

TBA: tert-butyl alcohol, an oxygenate

TCA: trichloroethane

TCE: trichloroethylene or trichloroethene

THQ: target hazard quotient

TL: Team Leader

TM: thermoplastic membrane

TPH: total petroleum hydrocarbons

TR: target risk
T&R: Turczynowicz and Robinson

U

UCL: upper confidence limit
UEL: upper explosive limit
URF: unit risk factor
UST: underground storage tank
UV: ultraviolet

V

V: volume
VAV: variable air volume
VC: vinyl chloride
Vertical VIPP: vertical vapor intrusion preferential pathway
VFC: vapor-forming chemical
VI: vapor intrusion
VIM: vapor intrusion model
VIMS: vapor intrusion mitigation system
VIPP: vapor intrusion preferential pathway
VISL: vapor intrusion screening level
VOC: volatile organic compound
VPH: volatile petroleum hydrocarbon
VSS: void space system