

Acronyms and Abbreviations

Terminology used in this document is defined where it is first used. The following list will assist readers who may choose to review only portions of the document.

%	Percent
%HA	Percent highly annoyed
°	Degrees (gradient)
°C	Degrees Celsius
2-D	Two-dimensional
3-D	Three-dimensional
AAC	Annual allowable cut
AADT	Annual average daily trips
AANDC	Aboriginal Affairs and Northern Development Canada (formerly known as Indian and Northern Affairs Canada [INAC])
AAQO	Ambient air quality objective
ABA	Acid base accounting
ABCFFP	Association of British Columbia Forest Professionals
ABR	Anaerobic biochemical reactor
ACRD	Asphalt core rock fill dam
ADFG	Alaska Department of Fish and Game
AEMP	Aquatic Effects Monitoring Plan
Ag	Silver
AGP	Acidgenerating potential
AIA	Archaeological Impact Assessment
AIR	Application Information Requirements
AK	Alaska
Alpine Solutions	Alpine Solutions Avalanche Services

Acronyms and Abbreviations

AN Prill	Prilled ammonium nitrate
AK DNR	Alaska Department of Natural Resources
ANFO	Ammonium nitrate with fuel oil
ANSI	American National Standards Institute
APLIC	Avian Power Line Interaction Committee
Application/EIS	Application for an Environmental Assessment Certificate/ Environmental Impact Statement
Archaeology Branch	Archaeology Branch of the British Columbia Ministry of Forests, Lands and Natural Resource Operations
ARD	Acid rock drainage
As	Arsenic
ATSDR	Agency for Toxic Substances and Disease Registry
ATV	All-terrain vehicle
Au	Gold
AuEq	Gold equivalent grade
Avanti	Avanti Mining Ltd.
AVR	Acidification, volatilization, re-neutralization
BATNEEC	Best available technique not entailing excessive cost
BAFA	Boreal Altai Fescue Alpine
B	Billion
BA	Benefits Agreement
BC	British Columbia
BC AMTA	British Columbia Aboriginal Mine Training Association
BC CDC	British Columbia Conservation Data Centre
BC EAA	British Columbia <i>Environmental Assessment Act</i> (2002)
BC EAO	British Columbia Environmental Assessment Office
BC ILMB	British Columbia Integrated Land Management Bureau (currently British Columbia Ministry of Forests, Lands and Natural Resource Operations [BC MOFLNRO])

Acronyms and Abbreviations

BC MARR	British Columbia Ministry of Aboriginal Relations and Reconciliation
BC MEM	British Columbia Ministry of Energy and Mines (currently British Columbia Ministry of Energy, Mines, and Natural Gas [BC MEMNG])
BC MEMNG	British Columbia Ministry of Energy, Mines and Natural Gas
BC MEMPR	British Columbia Ministry of Energy, Mines and Petroleum Resources (currently British Columbia Ministry of Energy, Mines and Natural Gas)
BC MFLNRO	British Columbia Ministry of Forests, Lands and Natural Resources Operations
BC MMRP	British Columbia Métis Mapping Research Project
BC MOE	British Columbia Ministry of Environment
BC MOF	British Columbia Ministry of Forests (currently British Columbia Ministry of Forests, Lands and Natural Resource Operations [BC MOFLNRO])
BC MOFR	British Columbia Ministry of Forests and Range (currently British Columbia Ministry of Forests, Lands and Natural Resource Operations [BC MOFLNRO])
BC MOT	British Columbia Ministry of Transportation (currently British Columbia Ministry of Transportation and Infrastructure [BC MOTI])
BC MOTI	British Columbia Ministry of Transportation and Infrastructure
BC MSRM	British Columbia Ministry of Sustainable Resource Management
BC MWLAP	British Columbia Ministry of Water, Land and Air Protection (currently British Columbia Ministry of Environment [BC MOE])
BEC	Biogeoclimactic Ecosystem Classification
BGC	BGC Engineering Inc.
BMP	Best management practice
BP	Before present (AD 1950)
BSA	Baseline study area
Bt	Billion tonnes
BTF	Biotransfer factor

Acronyms and Abbreviations

BVDH	Bulkley Valley District Hospital
BW	Body weight
CA	California
CAC	Criteria air contaminant
Ca CaNP	Calcium calculated neutralization potential
CaHCO₃	Calcium bicarbonate
Cal EPA	California Environmental Protection Agency
Camp 1	Camp 1: Granduc Staging Camp
Camp 2	Camp 2: Ted Morris Camp
Camp 3	Camp 3: Eskay Staging Camp
Camp 4	Camp 4: Mitchell North Camp
Camp 5	Camp 5: Treaty Plant Camp
Camp 6	Camp 6: Treaty Saddle Camp
Camp 7	Camp 7: Unuk North Camp
Camp 8	Camp 8: Unuk South Camp
Camp 9	Camp 9: Mitchell Initial Camp
Camp 10	Camp 10: Mitchell Secondary Camp
Camp 11	Camp 11: Treaty Creek Marshalling Camp
Camp 12	Camp 12: Highway 37 Construction Camp
CaO	Calcium oxide (or slaked lime)
CAPEX	Capital expenditures
CAPMoN	Canadian Air and Precipitation Monitoring Network
CARA	Clean Air Regulatory Agenda
CARB	California Air Resources Board
CaSO₄	Anhydrite
CaSO₄H₂O	Gypsum
CCAC	Coulter Creek Access Corridor

Acronyms and Abbreviations

CCAR	Coulter Creek access road
CCCSN	Canadian Climate Change Scenarios Network
CCME	Canadian Council of Ministers of the Environment
CDA	Canadian Dam Association
CEA	Cumulative Effects Assessment
CEAA	<i>Canadian Environmental Assessment Act</i>
CEA Agency	Canadian Environmental Assessment Agency
CEIDARS	California Emission Inventory and Report System
CEO	Chief Executive Officer
CEPA	<i>Canadian Environmental Protection Act (1999)</i>
CFNR	Canada's First Nation's Radio
CF SLRA	Country foods screening level risk assessment
CIL	Carbon-in-leach
CIS	Cassiar Iskut-Stikine
CH₄	Methane
cm	Centimetre(s)
CMA	Coastal Mountain-heather Alpine
CMT	Culturally modified tree
CN	Cyanide
CN Rail	Canadian National Railway
CO	Carbon monoxide
CO₂	Carbon dioxide
CO₂e	Carbon dioxide equivalent
COD	Chemical oxygen demand
COPC	Contaminants/chemicals of potential concern
COSEWIC	Committee on the Status of Endangered Wildlife in Canada
CRA	Cumulative risk assessment

Acronyms and Abbreviations

CPUE	Catch per unit effort
CSR	Contaminated Sites Regulation (BC Reg. 375/96)
Cu	Copper
Cu₃AsS₄	Enargite
Cu₁₂As₄S₁₃	Tennantite
Cu₂S	Chalcocite
CuFeS₂	Chalcopyrite
Cu₄FeS₄	Bornite
CWB	Community well-being
CWH	Coastal Western Hemlock (ecological zone)
CWS	Canadian Wildlife Service
d	Day
dB	Decibel(s)
dBA	Decibels (A-weighted)
DBS	Depth below surface
DC	District of Columbia
DEM	Digital elevation model
DFO	Fisheries and Oceans Canada
dm	Decimetre
DNA	Deoxyribonucleic acid
DO	Dissolved oxygen
dw	Dry weight
DWT	Dead weight tonnes
EA	Environmental assessment
EA Cooperation Agreement	<i>Canada-British Columbia Agreement on Environmental Assessment Cooperation (2004)</i>
EC	Environment Canada

Acronyms and Abbreviations

EC₁₀	Effect concentration affecting 10%
ECMT	European Conference of Ministers of Transport
EDF	Environmental discharge flood
EDI	Estimated daily intake
EEM	Environmental Effects Monitoring
EF	Emission factor
EI	Employment Insurance
EIS	Environmental Impact Statement
EMA	<i>Environmental Management Act (2003)</i>
EMP	Environmental Management Plan
EMS	Environmental Management System
ENSO	El Niño Southern Oscillation
EPCM	Engineering, Procurement, and Construction Management
ePIC	Electronic Project Information Centre
EPP	Environmental Protection Plan
EPT	Ephemeroptera, Plecoptera, and Trichoptera
ER	Exposure ratio
ESCIA	Economic, Social, Cultural Impact Assessment
ESSF	Engelmann Spruce – Subalpine Fir (ecological zone)
FAL	Freshwater aquatic life
FBR	Fluidized bed reactor
FDIS	Field Data Inventory System
FeS₂	Pyrite
FISS	Fisheries Information Summary System
FMEA	Failure Modes and Effects Analysis
FOS	Factor of safety
FRPA	<i>Forest and Range Practices Act (2002)</i>

Acronyms and Abbreviations

FTE	Full-time equivalent
FTP	File transfer portal
g	Gram(s)
g	Unit of measure for ground acceleration
GCFSS	Gitxsan Child and Family Services Society
GCM	Global climate model
GCO	Gitxsan Chiefs' Office
GDP	Gross domestic product
GHCO	Gitanyow Hereditary Chiefs' Office
GHG	Greenhouse gas
GHS	Gitanyow Human Services
GIF	Ground Inspection Forms
GIS	Geographic Information System
GMD	General Management Direction
Golder	Golder Associates Ltd.
GPS	Global Positioning System
Granduc	Granduc Mines Ltd.
GST	Goods and Services Tax
GVW	Gross vehicle weight
GWP	Global warming potential
GWA	Gitksan Watershed Authorities
GWES	Gitksan Wet'suwet'en Education Society
GWh	Gigawatt-hour
h	Hour(s)
ha	Hectare(s)
HADD	Harmful alteration, disruption, or destruction (of fish habitat)
HBC	Hudson's Bay Company

Acronyms and Abbreviations

HCA	<i>Heritage Conservation Act (1996)</i>
HDPE	High-density polyethylene
HDS	High-density sludge
HEP	Hydro-electric power
HHRA	Human health risk assessment
HIS	Habitat Suitability Index
HP	Horse power
HPGR	High pressure grinding rolls
HQ	Hazard quotient
HSC	Habitat Suitability Criteria
HSI	Habitat Suitability Incides
HRSDC	Human Resources and Skills Development Canada
HSR	Habitat Suitability Rating
HU	Habitat unit
Hwy	Highway
IARC	International Agency for Research on Cancer
ICABC	Institute of Chartered Accountants of British Columbia
ICMI	International Cyanide Management Institute
ICP-MS	Inductively coupled plasma mass spectrometry
IDF	Inflow design flood
IEA	International Energy Agency
IEC	International Electrotechnical Commission
ILRR	Integrated Land Resource Registry
INAC	Indian and Northern Affairs Canada (currently known as Aboriginal Affairs and Northern Development Canada [AANDC])
Inorg NP	Inorganic neutralization potential
IPCC	Intergovernmental Panel on Climate Change

Acronyms and Abbreviations

IPP	Independent Power Producer
IR	Indian reserve
IRIS	Integrated Risk Information System
ISF	Inhalation slope factor
ILCR	incremental lifetime cancer risk
IR	Indian reserve
ISO	International Organization for Standardization
ISQ	Interim sediment quality
ISSN	International Standard Serial Number
JEFCA	Joint FAO/WHO Expert Committee on Food Additives
JOC	Journal of Commerce
JSA	Job Safety Analysis
KCB	Klohn Crippen Berger Ltd.
KGL	Knipple Glacier Lake (sampling site)
km	Kilometre(s)
kPa	Kilopascal
kph	Kilometres per hour
kt	Kilotonne(s)
kV	Kilovolt(s)
kW	Kilowatt(s)
kWh	Kilowatt hour
L	Litre(s)
L/d	Litres per day
L/s	Litres per second
L_{AE}	A-weighted sound exposure level
L_{AFmax}	Maximum A-weighted, fast tiem constant sound level
LAL	West Teigen Lake sampling site

Acronyms and Abbreviations

lb	Pound(s)
LD	Lethal dose
L_d	Daytime sound level
LDS	Low-density sludge
LEL	Lowest effect level
L_{eq}	Equivalent continuous noise level
L_{dn}	Day-nighttime sound level
L_n	Nighttime sound level
LG	Lerchs-Grossman
LHA	Local Health Area
LHD	Load haul dump
LiDAR	Light Detection and Ranging
LLDPE	Low-density polyethylene
L_{LF}	Sum of sound levels in the 16-, 31.5- and 63-Hz octave bands
LOAEL	Lowest observable adverse effect level
LOM	Life of mine
LP	Lower panel
L_{peak}	Peak sound level
LRMP	Land and Resource Management Plan
LSA	Local study area
LULUCF	Land use, land use change, and forestry
LWD	large woody debris
m	Metre(s)
m³	Cubic metre(s)
m³/d	Cubic metres per day
m³/s	Cubic metres per second
M	Million

Acronyms and Abbreviations

MAA	Multiple accounts analysis
MABC	Mining Association of British Columbia
MAD	Mean annual discharge
MAP	Mean annual precipitation
masl	Metres above sea level
MCE	Maximum credible earthquake
MDDEFP	Ministère du Développement durable, de l'Environnement, de la Faune et des Parcs
MDT	Mitchell Diversion Tunnels
MeHg	Methyl mercury
MEND	Mine Environment Neutral Drainage (program)
mg	Milligram(s)
MH	Mountain Hemlock (ecological zone)
MineSight	MineSight® Strategic Planner
MIBC	Methyl isobutyl carbinol
µg	Microgram(s)
µm	Micrometre(s)
µS	Microsecond
ML	Metal leaching
mm	Millimetre(s)
mm/a	Millimetres per annum
Mm³	Million cubic metres
MMER	Metal Mining Effluent Regulations (SOR/2002-222)
Mo	Molybdenum
MoS₂	Molybdenite
MOVES	Motor Vehicle Emission Simulator
MPa	Megapascal

Acronyms and Abbreviations

MPMO	Major Project Management Office
MTDT	McTagg Twinned Diversion Tunnels
Mt	Million tonnes
Mtpa	Million tonnes per annum
MTF	Mitchell Thrust Fault
MTT	Mitchell-Treaty Twinned Tunnels
MVA	Megavolt-ampere
MVC	Moose/vehicle collision
MW	Megawatts
MWh	Megawatt hour
MWR	Municipal Wastewater Regulation (BC Reg. 87/2012)
MWWO	Minor Works and Waters Order
NAAQO	National Ambient Air Quality Objectives
NAG	Non acid-generating
NaHCO₃	Sodium bicarbonate
NCDR	North Coast Development Region
NCFS	Nisga'a Child and Family Services
NCG	Nisga'a Commercial Group of Companies
NDIT	Northern Development Initiative Trust
NDT	Natural disturbance type
Newhawk	Newhawk Gold
Newmont	Newmont Mining Corp.
NFA	Nisga'a Final Agreement
NG	No guideline
NGO	Non-governmental organization
NIHL	Noise induced hearing loss
Ni	Nickel

Acronyms and Abbreviations

NIR	National Inventory Report
Nisga'a villages	Gitlaxt'aamiks, Gitwinksihlkw, Laxgalts'ap, and Gingolx
NLC	Northern Lights College
NLG	Nisga'a Lisims Government
N₂O	Nitrous oxide
NO₂	Nitrogen dioxide
NO_x	Nitrogen oxides
NOAA	National Oceanic and Atmospheric Administration
NOAEL	No observed adverse effect level
Noranda	Noranda Inc.
NP	Neutralization potential
NPA	<i>Navigation Protection Act (2012)</i>
NPAG	Not potentially acid generating
NPR	Net Potential Ratio
NPV	Net present value
NRCan	Natural Resources Canada
NSP	Net Smelter Price
NSR	Net Smelter Return
NTFP	Non-timber forest product
NTL	Northwest Transmission Line
NTS	National Topographic System
NTU	Nephelometric Turbidity Unit
NVHA	Nisga'a Vally Health Authority
NWA	Nass Wildlife Area
NWCC	Northwest Community College
NWCG	National Wildfire Coordinating Group
NWIPC	Northwest Invasive Plant Council

Acronyms and Abbreviations

NWPA	<i>Navigable Waters Protection Act (1985)</i>
OAC	Overall allowable catch
OCP	Official Community Plan
OCS	Ore control system
OGMA	Old Growth Management Area
OH&S	Occupational health and safety
ON	Ontario
OPC	Ore Preparation Complex
OPEX	Operation expenditures
oz	Ounce(s)
PA	Pennsylvania
PAG	Potentially acid generating
PAH	Polycyclic aromatic hydrocarbon
PAX	Potassium amyl xanthate
Pb	Lead
PbS	Galena
PEA	Preliminary Economic Assessment
PEL	Probable effect level
PEM	Predictive Ecosystem Mapping
PFS	Prefeasibility study
Pretivm	Pretium Resources Inc.
PGA	Peak ground acceleration
pH	Measure of acidity or alkalinity
Placer	Placer Dome Inc.
PM	Particulate matter
PM₁₀	Particulate matter less than 10 microns in diameter
PM_{2.5}	Particulate matter less than 2.5 microns in diameter

Acronyms and Abbreviations

PMF	Probable maximum flood
PMP	Probable maximum precipitation
ppb	Parts per billion
ppm	Parts per million
ppmv	Parts per million by volume
Project	KSM Project
Proponent	Seabridge Gold Inc.
psi	Pounds per square inch
PST	Provincial sales tax
PTDI	Provisional tolerable daily intake
PTMA	Processing and Tailing Management Area
PTWI	Provisional tolerable weekly intake
PVA	Population Viability Analysis
PVC	Polyvinyl chloride
PY	Person year
PYLL	Potential years of life lost
Q₁₀₀	100-year flood
QC	Quebec
QA/QC	Quality assurance and quality control
RA	Responsible Authority
RAAD	Remote Access to Archaeological Data online application
RCC	Roller compacted concrete
RCDC	Red Chris Development Company Ltd.
RCMP	Royal Canadian Mounted Police
RDBN	Regional District of Bulkley-Nechako
RDKS	Regional District of Kitimat-Stikine
Re	Rhenium

Acronyms and Abbreviations

Rescan	Rescan Environmental Services Ltd.
RfD	Reference dose
RFI	Recreational Features Inventory
RFP	Recreational Feature Polygons
RIC	Resources Inventory Committee (currently Resources Information Standards Committee)
RISC	Resources Information Standards Committee
RM	Rural Municipality
RMI	Resource Modeling Inc.
RMWI	Recommended maximum weekly intake
RMZ	resource management zone
ROW	Right-of-way
RPD	Relative percent differences
RQD	Rock quality designation
RSA	Regional study area
RSD	Relative standard deviation
RSF	Rock Storage Facility
s	Second(s)
SABC	Mill-ball mill-pebble crushing
Saddle Area	Mitchell-Treaty Saddle Area
SAC(s)	Subaqueous column(s)
SAG	Semi-autogenous grinding
SARA	<i>Species at Risk Act</i> (2002)
SART	Sulfidization, acifiation, recycling, thickening
SD	School district
SDS	Safety data sheet
Se	Selenium

Acronyms and Abbreviations

Seabridge	Seabridge Gold Inc.
SEL	Severe effect level
SERC	Social, Economic, Resource Use, and Cultural
SF₆	Sulphur hexafluoride
SFU	Simon Fraser University
SHIM	Sensitive Habitat Inventory Mapping
SLRA	Screening level risk assessment
SMCT	Sulphurets-Mitchell Conveyor Tunnel
SMU	Soil mapping unit
SNDS	Skeena Native Development Society
SNPR	Sulphide net potential ratio
SO₂	Sulphur dioxide
SO_x	Sulphur oxides
SOP	Standard operating procedure
SRMP	Sustainable Resource Management Plan
STF	Sulphurets Thrust Fault
STP	Sewage treatment plant
SU	Survey unit
SUL	Sulphurets Lake sampling site
t	Tonne(s)
TC	Transport Canada
TCAC	Treaty Creek Access Corridor
TCAR	Treaty Creek access road
TCC	Tahltan Central Council
TD₀₅	Tumorigenic dose at which the incidence of tumours (or death from tumours) is increased by 5%
TDG	Transport of dangerous goods

Acronyms and Abbreviations

TDI	Tolerable daily intake
TDL	Todedada Lake (sampling site)
TDS	Total dissolved solids
TEDA	Terrace Economic Development Association
TEM	Terrestrial Ecosystem Mapping
THREAT	Tahltan Heritage Resources Environmental Assessment Team
TGAR	Temporary Frank Mackie Glacier access route
TK	Traditional knowledge
TL	Transmission line
TLC	Transmission Line Connector (the portion of the TL that is on the east side of Highway 37)
TMF	Tailing Management Facility
TNDC	Tahltan Nation Development Corporation
TOC	Total organic concentration
tpa	Tonnes per annum
tpd	Tonnes per day
TPM	Total particulate matter
TRIM	Terrain Resource Information Management
TRV	Toxicity reference value
TSA	Timber Supply Area
TSC	Terrain Stability Class
TSP	Total suspended particulate
TSS	Total suspended solids
TU	Traditional use
TWT	Temporary Water Treatment (facility)
UBC	University of British Columbia
UCLM	Upper confidence limit of the mean

Acronyms and Abbreviations

UK	United Kingdom
UNBC	University of Northern British Columbia
UNFCCC	United Nations Framework Convention on Climate Change
UP	Upper panel
US	United States
US EPA	United States Environmental Protection Agency
USFS	United States Forest Service
USFWS	United States Fish and Wildlife Service
UTM	Universal Transverse Mercator
UWR	Ungulate Winter Range
VC	Valued component
VPH	Vehicles per hour
VoIP	Voice over Internet Protocol
VQSA	Visual quality study area
VRI	Vegetation Resource Information
W	Tungsten
WA	Washington
WAD	Weak acid dissociable
WARS	Wildlife Accident Reporting System
WBCSD	World Business Council for Sustainable Development
WCI	Western Climate Initiative
WDR	Waste Discharge Regulation (BC Reg. 320/2004)
WEMP	Wildlife Effects Monitoring Program
WHA	Wildlife Habitat Area
WHMIS	Workplace Hazardous Materials Information System
WHO	World Health Organization
WMU	Wildlife Management Unit

Acronyms and Abbreviations

WRI	World Resources Institute
WRMF	Waste Rock Management Facility
WSC	Water Survey of Canada
WSD	Water Storage dam
WSF	Water Storage Facility
WTP	Water Treatment Plant
WUA	Weighted usable area
WUW	Weighted usable width
W_w	Wet weight
WWNI	Wilp Wilxo'oskwahl Nisga'a Institute
XRD	X-ray diffraction
XRF	X-ray fluorescence
Zn	Zinc
ZND	Zero net deforestation
(Zn,Fe)S	Sphalerite