

BC Mines with Known or Potential Water Contamination Concerns, January 2021 - Compiled by Adrienne Berchtold (MSc), SkeenaWild Conservation Trust

Project	Commodity	Project Status (as of 2019/2020)	Acid Rock Drainage Concern	Neutral pH Drainage Concern	Known Contamination (nature unknown)	Latitude	Longitude	Notes	Contamination Status References (see "Additional Information")
Bonanza Ledge	Au	Operating	Yes	Unknown		53.072	-121.547		Joint Application for a Permit Pursuant to Section 10(1) of the British Columbia Mines Act and Amendment to Existing Effluent Discharge Permit PE-17876 Under the Environmental Management Act for the Proposed Development of an Open Pit Gold Mine at Bonanza Ledge, Wells, BC. 2010. (Sections 2.5 Geochemical Characterization & 5.7 Waste Rock Monitoring Plan); Bonanza Ledge Underground Project Mines Act Permit Amendment Application. 2016. (Section 2.3.6 Metal Leaching/Acid Rock Drainage Geochemistry); Bonanza Ledge Mine Metal Leaching and Acid Rock Drainage Management Plan. 2017.
Brucejack	Ag, Au	Operating	Yes	Unknown		56.4675	-130.1933		Brucejack Gold Mine Project: EAO Assessment Report. 2015. (Section 6 Surface Water Quality: Mine Site); Brucejack Gold Mine: Application for Mines Act & Environmental Management Act Permits. 2015. (Sections 3 Mine Plan & 4 Metal Leaching and Acid Rock Drainage); 2016 Annual Report for Permits M-243, PE-107835 and PA-107025. 2017. (Section 4 ML/ARD Characterization and Management)
Brule	Coal	Operating	No	Yes		55.386667	-121.82		Brule Mine Project: EAO Assessment Report. 2006. (Section 16.2 Background Information); Annual Reclamation Report for 2019: Brule Mine. 2020. (Section 3 Environmental Protection Program)
Copper Mountain	Ag, Au, Cu	Operating	No	Yes		49.347	-120.521	ARD info based on Similco Mine, which is now part of Copper Mountain Project	Price WA, 2015.
Elkview	Coal	Operating	No	Yes		49.786	-114.826		Price WA, 2015.
Fording River	Coal	Operating	No	Yes		50.198	-114.831		Price WA, 2015.
Gibraltar	Ag, Au, Cu, Mo	Operating	Yes	Unknown		52.53	-122.327		Price WA, 2015.
Greenhills	Coal	Operating	No	Yes		50.114	-114.863		Price WA, 2015.
Highland Valley Copper	Ag, Au, Cu, Mo	Operating	No	Yes		50.486	-121.048		Price WA, 2015.
Line Creek	Coal	Operating	No	Yes		49.945	-114.766		Price WA, 2015.
Mt. Milligan	Ag, Au, Cu	Operating	Yes	Unknown		55.12388	-124.0275		Mt. Milligan Copper-Gold Project: EAO Assessment Report. 2009. (Section 6 Metal Leaching and Acid Rock Drainage); Mt. Milligan Mine 2017 Annual Reclamation Report. 2018. (Section 3.2 ML/ARD Characterization and Management)
Myra Falls	Ag, Au, Cu, Pb, Zn	Operating	Yes	Unknown		49.571	-125.594		Price WA, 2015.
New Afton	Ag, Au, Cu	Operating	Yes	Unknown		50.661	-120.515		New Afton Mine Annual Reclamation Report for 2017. 2018. (Section 3.4 ML/ARD Characterization and Management)
Red Chris	Ag, Au, Cu	Operating	Yes	Unknown		57.699722	-129.80528		Red Chris Porphyry Copper-Gold Project: EAO Assessment Report. 2005. (Section 5.1 Environmental Effects); Red Chris Mine 2017 Annual Reclamation Report. 2018. (Section 2.6 Production and ML/ARD Materials Inventory)
Silvertip	Ag, Pb, Zn	Operating	Yes	Unknown		59.92667	-130.342		Silvertip Mine Annual Reclamation Report for 2017. 2018. (Section 3.2 ML/ARD Characterization and Mine Waste Management)
Willow Creek	Coal	Operating	No	Yes		55.6	-122.2		Willow Creek Coal Mine Project: EAO Report and Recommendations. 1998. (Section 5.4 Surface Water Quality); Willow Creek Mine Annual Reclamation Report for 2019. 2020. (Chapter 3 Environmental Protection Program)
Wolverine	Coal	Operating	Yes	Yes		55.086111	-121.2453	Site contains PAG material; selenium & sulphate leaching (even from NAG material) also a concern	Wolverine Coal Project Revised Project Description. 2003 (Executive Summary, and Sections 4.2 Geochemical Characterization and Metal Leaching Potential & 4.7.2 Surface Water Quality); Wolverine Coal Project: EAO Assessment Report. 2004. (Section 5.1.2 Water Quality); Wolverine Mine Annual Reclamation Report for 2018. 2019. (Sections 2.1 Mining Development & 3.2 ML/ARD Characterization and Mine Waste Management)
Baker	Ag, Au, Cu	Care & Maintenance	Yes	Unknown		57.285278	-127.11055		Price WA, 2015.
Basin Coal	Coal	Care & Maintenance	Yes	Unknown		49.489167	-120.75416		Basin Mine Annual Reclamation Report for 2017. 2018. (Section 2.0 Mining Program)
Bull River	Ag, Au, Cu, Pb, Zn	Care & Maintenance	No	Yes		49.504	-115.388	New owner and exploration activity in 2019	Bull River Mine Project Description. 2019. (Section 10.10 Potential for Metal Leaching and Acid Rock Drainage)
Coal Mountain	Coal	Care & Maintenance	No	Yes		49.505	-114.655	Operations suspended partway through 2019	Price WA, 2015.
Endako	Mo	Care & Maintenance	No	Yes		54.036111	-125.11		Price WA, 2015.
Huckleberry	Au, Cu, Mo	Care & Maintenance	Yes	Unknown		53.681111	-127.17806		Huckleberry Copper Project: EAO Project Committee Report. 1995. (Section 5.3.1 Acid Rock Drainage); Huckleberry Mine Annual Reclamation Report for 2017. 2018. (Section 2 Mining Program & Appendix A Huckleberry Mine Kinetic Testing and Source Term Monitoring Report)
Kemess South	Ag, Au, Cu	Care & Maintenance	Yes	Yes		57.005833	-126.75083	Mine is closed, reclamation is ongoing; site contains PAG materials; elevated contaminant concentrations also leach from NAG materials	Price WA, 2015.; Kemess South Mine Annual Reclamation Report for 2017. 2018. (Appendix 4 ML/ARD Report)
Kitsault	Mo	Care & Maintenance	Yes	Unknown		55.421944	-129.41944	Historic operation; received updated EA certification in 2013 and underwent new construction; under care and maintenance until Mo prices improve	Price WA, 2015.
Max	Mo	Care & Maintenance	Yes	Unknown		50.63758	-117.58544	Mining ceased due to low prices; ownership considering expanding project to re-open and produce Au & Cu too	Max Molybdenum Mine Annual Reclamation Report for 2016. 2018. (Section 3 Environmental Protection Program)
Mount Polley	Ag, Au, Cu	Care & Maintenance	No	Yes		52.549	-121.641	Operations suspended partway through 2019	Price WA, 2015.
OR	Ag, Au	Care & Maintenance	Yes	Unknown		52.668889	-121.78638		Price WA, 2015.
Quinsam	Coal	Care & Maintenance	Yes	Unknown		49.935	-125.486	Operations suspended partway through 2019	Price WA, 2015.
Quintette	Coal	Care & Maintenance	No	Yes		55.027222	-121.19055		Price WA, 2015.
Shasta	Ag, Au	Care & Maintenance	Yes	Unknown		57.253611	-126.99305		Price WA, 2015.
Trend-Roman	Coal	Care & Maintenance	Yes	Yes		54.8775	-120.94722	Site contains some PAG material; Selenium leaching (even with ARD management) also a concern; listed in MINFILE as "Trend Coal"	Trend-Roman Mine Annual Reclamation Report for 2017. 2018. (Section 3.2 Environmental Protection Program)
Tulsequah Chief	Ag, Au, Cu, Pb, Zn	Care & Maintenance	Yes	Unknown		58.735833	-133.60111		Price WA, 2015.
Yellow Giant	Au	Care & Maintenance	Yes	Yes		53.365	-130.16138	Site contains some PAG material; metal leaching also evident in neutral pH drainage	Yellow Giant Mine Annual Reclamation Report for 2014. 2015. (Section 3 Environmental Protection Program)
Alpine Gold	Ag, Au, Pb, Zn	Closed/Abandoned	Unknown	Unknown		49.683611	-117.25222	Limited information available; deposit is sulphide-bearing	MINFILE Detail Report (#082FNNW127)
Annex	Ag, Cd, Cu, Pb, Zn	Closed/Abandoned	Unknown	Unknown		49.013889	-117.37888	Limited information available; deposit is sulphide-bearing, but is carbonate-hosted which may provide sufficient neutralization (though neutral pH drainage may still be a concern)	MINFILE Detail Report (#082FSW219)
Beaverdell	Ag, Au, Cd, Cu, Pb, Zn	Closed/Abandoned	No	Yes		49.432222	-119.06111	Limited information available; Cadmium leaching of concern	Beaverdell Annual Reclamation Report for 2015. 2016. (Section 3.2 ML/ARD Management); Beaverdell Annual Reclamation Report for 2016. 2017. (Section 3.2 ML/ARD Management)

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Bell	Ag, Au, Cu	Closed/Abandoned	Yes	Unknown		55.002778	-126.23194		Price WA, 2015.
Bonanza	Ag, Au, Cu	Closed/Abandoned	Unknown	Unknown		55.3925	-129.85111	Limited information available; deposit is high sulphide-bearing	MINFILE Detail Report (#103P 023)
Boss Mountain	Mo	Closed/Abandoned	Yes	Unknown		52.096667	-120.9075		Price WA, 2015.
Brenda	Au, Cu, Mo	Closed/Abandoned	No	Yes		49.879444	-120.00638		Price WA, 2015.
Britannia	Ag, Au, Cd, Pb, Zn	Closed/Abandoned	Yes	Unknown		49.611111	-123.14111		Price WA, 2015.
Bromley Vale Collieries	Coal	Closed/Abandoned	Unknown	Unknown		49.4225	-120.59388	No information in online reports	
Bullmoose	Coal	Closed/Abandoned	No	Yes		55.118333	-121.49472		Price WA, 2015.
Centre Star	Ag, Au, Cu, Mo	Closed/Abandoned	Unknown	Unknown		49.081111	-117.80416	Limited information available; deposit is sulphide-bearing	MINFILE Detail Report (#082FSW094)
Comox	Coal	Closed/Abandoned	Unknown	Unknown		49.631389	-125.03805	No information in online reports	
Coxey	Mo	Closed/Abandoned	Unknown	Unknown		49.089722	-117.82777	Limited information available; deposit is sulphide-bearing; technical report for nearby Midnight Mine suggests low ARD potential	MINFILE Detail Report (#082FSW110); Midnight, OK, IXL and Adjacent Gold Properties Technical Report. 2006. (Section: Mineral Processing and Metallurgical Testing)
Dankoe/Keremeos Silver	Ag, Au, Cu, Pb, Zn	Closed/Abandoned	Unknown	Unknown		49.056944	-119.69	Limited information available; deposit is sulphide-bearing	MINFILE Detail Report (#082ESW002)
Dentonia	Ag, Au, Cd, Cu, Pb, Zn	Closed/Abandoned	Unknown	Unknown		49.160833	-118.61305	Limited information available; deposit is sulphide-bearing	MINFILE Detail Report (#082ESE055)
Douglas Seam Mines	Coal	Closed/Abandoned	Unknown	Unknown		49.149722	-123.93638	No information in online reports	
Duthie	Ag, Au, Cd, Pb, Zn	Closed/Abandoned	Yes	Unknown		54.773056	-127.35722		Price WA, 2015.
East Wellington	Coal	Closed/Abandoned	Unknown	Unknown		49.181389	-123.99805	No information in online reports	
Equity Silver	Ag, Au, Cu, Pb, Zn	Closed/Abandoned	Yes	Unknown		54.189444	-126.26333		Price WA, 2015.
Extension Colliery	Coal	Closed/Abandoned	Unknown	Unknown		49.098889	-123.95972	No information in online reports	
Fairview	Ag, Au, Cu, Pb	Closed/Abandoned	Unknown	Unknown		49.203333	-119.6375	Limited information available; deposit is sulphide-bearing	MINFILE Detail Report (#082ESW008)
Fiddick Colliery	Coal	Closed/Abandoned	Unknown	Unknown		49.105278	-123.90555	No information in online reports	
Giant Nickel/Pride of Emory	Ag, Au, Cu, Co, Ni	Closed/Abandoned	Yes	Unknown		49.474722	-121.51416	Online reports do not contain PAG material estimates, but site is known to have ARD concern associated with it	BC Wild and Environmental Mining Council of BC, 2006.; Giant Nickel Mine Annual Reclamation Report for 2016. 2017. (Section: Environmental Protection Program)
Golden Bear	Ag, Au	Closed/Abandoned	No	Yes		58.210833	-132.29361		Price WA, 2015.
Goldstream	Ag, Au, Cd	Closed/Abandoned	Yes	Unknown		51.625	-118.42888		Price WA, 2015.
Granby	Coal	Closed/Abandoned	Unknown	Unknown		49.063056	-123.88888	No information in online reports	
Granisle	Au, Cu, Mo	Closed/Abandoned	Yes	Unknown		54.944444	-126.15722		Price WA, 2015.
Greyhound	Ag, Au, Cu	Closed/Abandoned	Unknown	Unknown		49.101667	-118.70277	Limited information available; deposit is sulphide-bearing, but is carbonate-hosted which may provide sufficient neutralization (though neutral pH drainage may still be a concern)	MINFILE Detail Report (#082ESE050)
Harewood Colliery	Coal	Closed/Abandoned	Unknown	Unknown		49.132778	-123.95972	No information in online reports	
HB	Au, Cu, Pb, Zn	Closed/Abandoned	No	Yes		49.152222	-117.19972		HB Mine Tailings Storage Facility Annual Reclamation Report for 2016. 2017. (Section 3.0 Environmental Protection Program)
Hidden Creek (Anyox)	Ag, Au, Cu	Closed/Abandoned	Yes	Unknown		55.439167	-129.82416		Price WA, 2015.
Highlander	Ag, Au, Cd, Pb, Zn	Closed/Abandoned	Unknown	Unknown	Yes	49.721111	-116.915	Limited information available; deposit is sulphide-bearing, but is carbonate-hosted which may provide sufficient neutralization (though neutral pH drainage may still be a concern); 2003 BC MEM study found elevated sulphate, aluminum, cadmium, cobalt, iron, manganese, and zinc in site drainage, but made no mention of whether drainage was acidic or not	BC Ministry of Energy and Mines, 2003.; MINFILE Detail Report (#082FNE030)
Hosmer Wheeler	Coal	Closed/Abandoned	Unknown	Unknown		49.6125	-114.90666	No information in online reports	
Island Copper	Ag, Au, Cu, Mo	Closed/Abandoned	Yes	Unknown		50.599722	-127.475		Price WA, 2015.
Jersey-Emerald	Cd, Pb, Zn, W	Closed/Abandoned	No	Yes		49.098611	-117.22111		Emerald Project Project Description. 2012. (Sections 1.4 History, 2.4 Water Quality & 5.0 Acid Rock Drainage and Metal Leaching Assessment); MINFILE Detail Report (#082FSW009)
Josie	Ag, Au, Cu	Closed/Abandoned	Unknown	Unknown		49.081389	-117.81166	Limited information available; deposit is sulphide-bearing	MINFILE Detail Report (#082FSW147)
Kootenay Belle	Ag, Au, Pb, Zn	Closed/Abandoned	Unknown	Unknown		49.139722	-117.1275	Limited information available; deposit is sulphide-bearing	MINFILE Detail Report (#082FSW046)
Le Roi	Ag, Au, Cu	Closed/Abandoned	Unknown	Unknown		49.078611	-117.80888	Limited information available; deposit is sulphide-bearing	MINFILE Detail Report (#082FSW093)
Lucky Jim	Ag, Au, Cd, Pb, Zn	Closed/Abandoned	Unknown	Unknown		50.0375	-117.20361	Limited information available; deposit is sulphide-bearing, but is carbonate-hosted which may provide sufficient neutralization (though neutral pH drainage may still be a concern)	MINFILE Detail Report (#082KSW023)
Magnum	Cu	Closed/Abandoned	Unknown	Unknown		58.510833	-125.40472	Limited information available; deposit is sulphide-bearing, but is carbonate-hosted which may provide sufficient neutralization (though neutral pH drainage may still be a concern)	MINFILE Detail Report (#094K 003)
Mascot Fraction	Ag, Au, Cu	Closed/Abandoned	No	Yes		49.374444	-120.03805	Limited information available; deposit is same as Nickel Plate	Errington J & Ferguson KD, 1987.; MINFILE Detail Report (#092HSE036)
Mineral King	Ag, Cd, Cu, Pb, Zn	Closed/Abandoned	Unknown	Unknown	Yes	50.340556	-116.425	Limited information available; deposit is sulphide-bearing; tailings effluent in 1985 exceeded pollution control permit levels for metals; in the 1950s & 1960s, the mine experienced a tailings facility collapse which dumped tailings into a fish-bearing creek, and the company later diverted tailings directly into the same creek intentionally	Keeling AM, 2004.; MINFILE Detail Report (#082KSE001)

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Monarch	Ag, Cd, Pb, Zn	Closed/Abandoned	Unknown	Unknown		51.415556	-116.43777	Limited information available; deposit is sulphide-bearing, but is carbonate-hosted which may provide sufficient neutralization (though neutral pH drainage may still be a concern)	MINFILE Detail Report (#082N 019)
Mother Lode	Ag, Au, Cu	Closed/Abandoned	No	Yes		49.111944	-118.71805		BC Ministry of Energy and Mines, 2003.; MINFILE Detail Report (#082ESE034)
Motherlode	Ag, Au, Cu, Pb, Zn	Closed/Abandoned	Unknown	Unknown		49.164167	-117.11666	Limited information available; deposit is sulphide-bearing	MINFILE Detail Report (#082FSW041)
Mount Washington Copper	Ag, Au, Cu	Closed/Abandoned	Yes	Unknown		49.763333	-125.30222		Price WA, 2015.
Nanosee	Coal	Closed/Abandoned	Unknown	Unknown		49.251389	-124.07138	No information in online reports	
Nickel Plate	Ag, Au, Cu, Zn	Closed/Abandoned	No	Yes		49.365278	-120.03444		Price WA, 2015.
No. 1 Mine	Coal	Closed/Abandoned	Unknown	Unknown		49.161389	-123.92638	No information in online reports	
Northair	Ag, Au, Cd, Cu, Pb, Zn	Closed/Abandoned	Unknown	Unknown		50.114444	-123.10361	Limited information available; deposit is sulphide-bearing	MINFILE Detail Report (#092JW 012)
Nugget	Ag, Au, Pb, Zn	Closed/Abandoned	Unknown	Unknown		49.167778	-117.11833	Limited information available; deposit is sulphide-bearing	MINFILE Detail Report (#082FSW040)
Phoenix (Knob Hill)	Ag, Au, Cu, Fe, Pb	Closed/Abandoned	No	Yes		49.090833	-118.59944		MEND, 1989. (Section 5 Selected Case Studies); BC Ministry of Energy and Mines, 2003.
Pinchi Lake	Hg	Closed/Abandoned	No	Yes		54.632778	-124.43722		Price WA, 2015.
Princeton Colliery	Coal	Closed/Abandoned	Unknown	Unknown		49.458056	-120.50083	No information in online reports	
Queen	Ag, Au, Pb, Zn	Closed/Abandoned	Unknown	Unknown		49.140278	-117.13694	Limited information available; deposit is sulphide-bearing	MINFILE Detail Report (#082FSW048)
Raven	Coal	Closed/Abandoned	Yes	Unknown		49.529722	-124.92138	Historic operation closed; new project was proposed on old mine site, but was terminated by BC EAO in 2016	Raven Underground Coal Project Description. 2011. (Sections 3.1.4 Geochemistry & 4.1 Land Management)
Rawhide	Ag, Au, Cu	Closed/Abandoned	Unknown	Unknown		49.090556	-118.585	Limited information available; deposit is sulphide-bearing, but is carbonate-hosted which may provide sufficient neutralization (though neutral pH drainage may still be a concern)	MINFILE Detail Report (#082ESE026)
Reeves MacDonald Reserve	Ag, Cd, Cu, Pb, Zn	Closed/Abandoned	Unknown	Unknown		49.024444	-117.35222	Limited information available; deposit is sulphide-bearing, but is carbonate-hosted which may provide sufficient neutralization (though neutral pH drainage may still be a concern)	MINFILE Detail Report (#082FSW026)
Reserve	Coal	Closed/Abandoned	Unknown	Unknown		49.1275	-123.88083	No information in online reports	
Samatosum	Ag, Au, Cu, Pb, Zn	Closed/Abandoned	Yes	Unknown		51.144444	-119.80944		Price WA, 2015.
Silver Cup	Ag, Au, Cu, Pb, Zn	Closed/Abandoned	Unknown	Unknown		50.636111	-117.36722	Limited information available; deposit is sulphide-bearing	MINFILE Detail Report (#082KNW027)
Silver Giant	Ag, Au, Cd, Cu, Pb, Zn	Closed/Abandoned	Unknown	Unknown		50.931111	-116.48527	Limited information available; deposit is sulphide-bearing, but is carbonate-hosted which may provide sufficient neutralization (though neutral pH drainage may still be a concern)	MINFILE Detail Report (#082KNE018)
Silver Standard	Ag, Au, Cd, Cu, Pb, Zn	Closed/Abandoned	Yes	Unknown		55.316944	-127.62972	Limited information available; deposit is sulphide-bearing	BC Wild and Environmental Mining Council of BC, 2006.; MINFILE Detail Report (#093M 049)
Skylark	Ag, Au, Cu, Pb, Zn	Closed/Abandoned	Unknown	Unknown		49.089444	-118.63888	Historic operation closed; now part of the Phoenix property; deposit is sulphide-bearing, but is carbonate-hosted which may provide sufficient neutralization (though neutral pH drainage may still be a concern)	MINFILE Detail Report (#082ESE011)
Snowshoe	Ag, Au, Cu	Closed/Abandoned	Unknown	Unknown		49.094444	-118.58444	Historic operation closed; now part of the Phoenix property; limited information available; deposit is sulphide-bearing, but is carbonate-hosted which may provide sufficient neutralization (though neutral pH drainage may still be a concern)	MINFILE Detail Report (#082ESE025)
South Wellington No. 10	Coal	Closed/Abandoned	Unknown	Unknown		49.09	-123.89416	No information in online reports	
South Wellington No. 5	Coal	Closed/Abandoned	Unknown	Unknown		49.095556	-123.89861	No information in online reports	
Standard	Ag, Au, Cd, Pb, Zn	Closed/Abandoned	Unknown	Unknown		49.956111	-117.32055	Limited information available; deposit is sulphide-bearing, but is carbonate-hosted which may provide sufficient neutralization (though neutral pH drainage may still be a concern)	MINFILE Detail Report (#082FNW180)
Sullivan	Ag, Fe, Pb, Zn	Closed/Abandoned	Yes	Unknown		49.7075	-116.00527		Price WA, 2015.
Sunro	Ag, Au, Cu	Closed/Abandoned	Yes	Unknown		48.448333	-124.03305	Limited information available; deposit is sulphide-bearing	University of Victoria Environmental Law Centre, 2017.; MINFILE Detail Report (#092C 073)
Surf Inlet	Ag, Au, Cu	Closed/Abandoned	Yes	Unknown		53.091389	-128.88222	Limited information available; deposit is sulphide-bearing	BC Acid Mine Drainage Task Force, 1989.; MINFILE Detail Report (#103H 027)
Tasu	Ag, Au, Cu, Fe	Closed/Abandoned	Yes	Unknown		52.756667	-132.04333		Price WA, 2015.
Tent Mountain	Coal	Closed/Abandoned	No	Yes		49.543056	-114.69194	Historic operation; part of Michel Coal project (proposed) property, but will not be mined; information here re: ML/ARD is from mining project of same name (Tent Mountain) on Alberta side of deposit, owned by Montem Resources	Technical Assessment Report for the Tent Mountain Mine Re-Start Project. 2020. (Section 9.2.2 Geochemistry/Metal Leaching)
Tulameen Collieries	Coal	Closed/Abandoned	Unknown	Unknown		49.451111	-120.53833	No information in online reports	
Union	Ag, Au, Cu, Pb, Zn	Closed/Abandoned	Unknown	Unknown	Yes	49.558611	-118.355	Limited information available; deposit is sulphide-bearing; site had issues with cyanide contamination from heap leaching in the late 80s	University of Victoria Environmental Law Centre, 2011.; MINFILE Detail Report (#082ENE003)
Victor	Ag, Au, Cd, Cu, Pb, Zn	Closed/Abandoned	Unknown	Unknown		49.995	-117.27166	Limited information available; deposit is sulphide-bearing	MINFILE Detail Report (#082FNW204)
Wakesiah	Coal	Closed/Abandoned	Unknown	Unknown		49.16	-123.96222	No information in online reports	
War Eagle	Ag, Au, Cu	Closed/Abandoned	Unknown	Unknown		49.082778	-117.80694	Historic operation closed; now part of the Phoenix property; deposit is sulphide-bearing	MINFILE Detail Report (#082FSW097)

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Wellington	Coal	Closed/Abandoned	Unknown	Unknown		49.193056	-123.98944	No information in online reports	
Whitewater	Ag, Au, Cd, Cu, Pb, Zn	Closed/Abandoned	Unknown	Unknown		50.048889	-117.13305	Limited information available; deposit is sulphide-bearing	MINFILE Detail Report (#082KSW033)
Wolf Mountain	Coal	Closed/Abandoned	Unknown	Unknown		49.146389	-124.02777	No information in online reports	
Yankee Girl	Ag, Au, Cd, Pb, Zn	Closed/Abandoned	Yes	Unknown		49.291944	-117.18444		BC Ministry of Water, Land and Air Protection, 2002.
Yellow Kid-Texada Mine	Ag, Au, Cu, Fe	Closed/Abandoned	Yes	Unknown		49.705278	-124.54777		Price WA, 2015.
Ymir	Ag, Au, Pb, Zn	Closed/Abandoned	Unknown	Unknown		49.321944	-117.17138	Limited information available; deposit is sulphide-bearing	MINFILE Detail Report (#082FSW074)
Ajax	Ag, Au, Cu	Potential/Ongoing Redevelopment	No	Yes		50.608056	-120.40444	Historic operation closed; newly proposed mine on site recently denied environmental certification, but owners are working to potentially resubmit application; only ~10% of proposed project's waste rock is PAG and reports claim NAG rock has sufficient buffering capacity; historic development does not seem to have ARD concern associated with it; listed in MINFILE as "Ajax West" and "Ajax East"	Ajax Project Application for an Environmental Assessment Certificate/Environmental Impact Statement. 2015. (Section 11.5 Metal Leaching and Acid Rock Drainage Management and Monitoring Plan); Ajax Copper-Gold Project Annual Reclamation Report for 2015. 2016. (Table 3.1 Environmental Protection Program Summary); Ajax Copper-Gold Project Reclamation Inspection Report, October 2016; Ajax Mine Project Joint Federal Comprehensive Study/Provincial Assessment Report. 2017. (Section 2.2.2 Potential Effects to Surface Water Quality and Mitigation Measures & Appendix D Key Mitigation Measures)
Arctos	Coal	Potential/Ongoing Redevelopment	No	Yes		57.243611	-128.90055	Historic operation closed; new project proposed on site is currently in EA process	Arctos Anthracite Project Description. 2013. (Section 7.5 Geochemistry)
Bethlehem	Ag, Au, Cu, Mo	Potential/Ongoing Redevelopment	No	Yes		50.498056	-120.98777	Historic operation closed; now part of Highland Valley Copper project (operating)	Highland Valley Copper Metal Leaching and Acid Rock Drainage Characterization Study - 2017 Annual Report. 2018. (Section 4.4 Seepage Monitoring Data Review)
Big Missouri	Ag, Au, Pb, Zn	Potential/Ongoing Redevelopment	Yes	Unknown		56.114444	-130.02555	Historic operation closed; exploration at site ongoing (as "Premier") under new ownership; deposit is sulphide-bearing	Premier & Red Mountain Gold Project Feasibility Study NI 43-101 Technical Report. 2020. (Section 1.18.3 Tailings Storage Facility and Surface Water Management); MINFILE Detail Report (#104B 046)
Blackdome	Ag, Au	Potential/Ongoing Redevelopment	No	No		51.323889	-122.49	Historic operation closed; exploration at site ongoing (as "Blackdome-Elizabeth") under new ownership	Price WA, 2015.
Bluebell	Ag, Au, Cd, Cu, Pb, Zn	Potential/Ongoing Redevelopment	Yes	Yes		49.7625	-116.86083	Historic operation closed; exploration at site ongoing (as "Thor") under new ownership; site contains PAG material; metal leaching also a concern from NAG material	MEND. 1989. (Section 5 Selected Case Studies); Donald BJ et al., 2001.
Bralorne	Ag, Au, Pb, Zn	Potential/Ongoing Redevelopment	No	Yes		50.777778	-122.82222	Historic operation under care & maintenance; undergoing redevelopment and updated permitting under new ownership	Bralorne Project Annual Reclamation Report for 2016. 2017. (Executive Summary); Bralorne Project Annual Reclamation Report for 2017. 2018. (Sections 3 Environmental Protection Program & 4 Reclamation Program)
Cariboo Gold	Ag, Au	Potential/Ongoing Redevelopment	Yes	Yes		53.089722	-121.56138	Historic operation closed; new project proposed on site is currently initiating EA process (as of October 2020); testing indicates PAG material as well as potential for leaching under neutral pH	Cariboo Gold Project Description. 2020. (Section 10.3.9 Geochemistry & Appendix D Cariboo Gold Project Tailings Management Filtered Tailings Technology at QR Mine)
Craigmont	Ag, Au, Cu, Fe	Potential/Ongoing Redevelopment	No	No		50.2075	-120.92611	Historic operation under care & maintenance; exploration at site ongoing (as "New Craigmont") under new ownership	Price WA, 2015.
Dome Mountain	Ag, Au	Potential/Ongoing Redevelopment	No	Yes		54.745	-126.62333	Historic operation closed; undergoing infrastructure redevelopment and exploration under new ownership; has active permits to re-start mining	Price WA, 2015.
Elk	Ag, Au	Potential/Ongoing Redevelopment	Yes	Unknown		49.850278	-120.31194	Historic operation closed; exploration at site ongoing under new ownership	Price WA, 2015.
Erickson	Ag, Au	Potential/Ongoing Redevelopment	Unknown	Unknown		59.216944	-129.67194	Historic operation closed; exploration at site ongoing (as "Cassiar Gold") under new ownership; deposit is sulphide-bearing	MINFILE Detail Report (#104P 029)
Eskay Creek	Ag, Au, Cu, Pb, Zn	Potential/Ongoing Redevelopment	Yes	Unknown		56.653889	-130.42888	Historic operation closed; exploration at site ongoing under new ownership	Price WA, 2015.
Greenwood Gold	Ag, Au, Cu	Potential/Ongoing Redevelopment	Yes	Unknown		49.08639	-118.5681	Project consists of historic Lexington-Grenoble mine and Greenwood (Zip) mill, both under care & maintenance; mining ceased in 2008; exploration ongoing under new ownership with active permits to resume mining	Greenwood (Zip) Mill Processing Ore from the Lexington-Grenoble Mine Annual Reclamation Report for 2016. 2017. (Section 3 Environmental Protection and Reclamation Program)
Highmont	Cu, Mo	Potential/Ongoing Redevelopment	No	Yes		50.431667	-120.99805	Historic operation closed; now part of Highland Valley Copper project (operating)	Highland Valley Copper Metal Leaching and Acid Rock Drainage Characterization Study - 2017 Annual Report. 2018. (Section 4.4 Seepage Monitoring Data Review)
Ingerbelle	Ag, Au, Cu	Potential/Ongoing Redevelopment	No	Yes		49.339444	-120.55611	Historic operation closed; technically now part of Copper Mountain project (operating), but company is exploring and developing this particular site separately from the rest of Copper Mountain	Copper Mountain Mine Annual Reclamation Report for 2017. 2018. (Sections 2.3 Surface Development in 2017 & 4.6 Surface Water Chemistry Monitoring)
Island Mountain	Ag, Au, Pb, Zn	Potential/Ongoing Redevelopment	Yes	Yes		53.101111	-121.58388	Historic operation closed; now part of Cariboo Gold project (proposed)	Cariboo Gold Project Description. 2020. (Sections 10.3.9 Geochemistry, 10.3.12 Contaminated Sites & Appendix D Cariboo Gold Project Tailings Management Filtered Tailings Technology at QR Mine)
Johnny Mountain	Ag, Au, Cu	Potential/Ongoing Redevelopment	Yes	Unknown		56.623611	-131.0675	Historic operation closed; exploration at site ongoing (as "Iskut") under new ownership	Price WA, 2015.
Ladner Creek	Ag, Au	Potential/Ongoing Redevelopment	No	Unknown		49.508611	-121.28888	Historic operation closed; exploration at site ongoing (as "Ladner Gold") under new ownership; minimal information in online reports	Ladner Gold Annual Reclamation Report for 2016. 2017. (Section 3 Environmental Protection Program)
Lawyers	Ag, Au	Potential/Ongoing Redevelopment	No	Yes		57.338333	-127.18027	Historic operation closed; exploration at site ongoing under new ownership	Price WA, 2015.
Lornex	Ag, Au, Cu, Mo	Potential/Ongoing Redevelopment	No	Yes		50.450278	-121.04305	Historic operation closed; now part of Highland Valley Copper project (operating)	Highland Valley Copper Metal Leaching and Acid Rock Drainage Characterization Study - 2017 Annual Report. 2018. (Section 4.4 Seepage Monitoring Data Review)

BC Mines with Known or Potential Water Contamination Concerns, January 2021 - Compiled by Adrienne Berchtold (MSc), SkeenaWild Conservation Trust

Project	Commodity	Project Status (as of 2019/2020)	Acid Rock Drainage Concern	Neutral pH Drainage Concern	Known Contamination (nature unknown)	Latitude	Longitude	Notes	Contamination Status References (see "Additional Information")
Michel Creek	Coal	Potential/Ongoing Redevelopment	No	Yes		49.655	-114.757	Historic operation closed; new project proposed on site, currently in EA process; ML/ARD characterization is consistent with other projects in Elk Valley (small proportion of PAG material, but Selenium and other contaminant leaching under neutral pH is of concern)	Michel Coal Project Revised Project Description. 2018. (Section 5.6.8 Rock Management); North Coal. 2020. Michel Coal Water Balance and Water Quality Model (Powerpoint Presentation)
Mosquito Creek	Ag, Au	Potential/Ongoing Redevelopment	Yes	Yes		53.108333	-121.59722	Historic operation under care & maintenance; now part of Cariboo Gold project (proposed)	Cariboo Gold Project Description. 2020. (Section 10.3.9 Geochemistry & Appendix D Cariboo Gold Project Tailings Management Filtered Tailings Technology at QR Mine)
Mount Klappan	Coal	Potential/Ongoing Redevelopment	No	Yes		57.236944	-128.75333	Historic operation closed; now part of Arctos project (proposed), which is currently in EA process	Arctos Anthracite Project Description. 2013. (Section 7.5 Geochemistry)
New Polaris	Ag, Au, Cu	Potential/Ongoing Redevelopment	Yes	Unknown		58.700556	-133.62583	Historic operation closed; exploration ongoing under new ownership	Errington J & Ferguson KD, 1987; The New Polaris Gold Project, British Columbia, Canada: 2019 Preliminary Economic Assessment. 2019. (Section 1.14 Environmental, Permitting and Social Considerations)
Perry Creek	Coal	Potential/Ongoing Redevelopment	No	Yes		55.086111	-121.24527	Historic operation closed; now part of Wolverine project (operating)	Wolverine Coal Project Revised Project Description. 2003. (Sections 4.2 Geochemical Characterization and Metal Leaching Potential & 4.7.2 Surface Water Quality)
Pioneer	Ag, Au, Pb, Zn	Potential/Ongoing Redevelopment	No	Yes		50.761111	-122.78055	Historic operation closed; now part of Bralorne project (proposed)	Bralorne Project Annual Reclamation Report for 2016. 2017. (Executive Summary)
Premier	Ag, Au, Cd, Cu, Pb	Potential/Ongoing Redevelopment	Yes	Unknown		56.051667	-130.01416	Historic operation closed; exploration at site ongoing under new ownership	Price WA, 2015.
Privateer	Ag, Au, Cu, Pb	Potential/Ongoing Redevelopment	Unknown	Unknown		50.030278	-126.81888	Historic operation closed; exploration at site ongoing (as "Surespan Gold") under new ownership; deposit is sulphide-bearing	MINFILE Detail Report (#092L 008)
Scottie Gold	Ag, Au	Potential/Ongoing Redevelopment	Yes	Unknown		56.219722	-130.09527	Historic operation closed; exploration at site ongoing under new ownership	Price WA, 2015.
Silvana	Ag, Cd, Pb, Zn	Potential/Ongoing Redevelopment	No	Yes		49.9725	-117.25166	Historic operation under care & maintenance; exploration at site ongoing under new ownership	Silvana Mine 2017 Annual Report. 2018. (Appendix G 2017 Annual Dam Safety Inspection)
Silver Coin	Ag, Au	Potential/Ongoing Redevelopment	Yes	Unknown		56.103056	-130.03083	Historic operation closed; exploration at site ongoing (as "Premier") under new ownership; deposit is high sulphide-bearing	Premier & Red Mountain Gold Project Feasibility Study NI 43-101 Technical Report. 2020. (Section 1.18.3 Tailings Storage Facility and Surface Water Management); MINFILE Detail Report (#104B 150)
Silversmith	Ag, Au, Cd, Pb, Zn	Potential/Ongoing Redevelopment	Unknown	Unknown		49.964167	-117.22472	Historic operation closed; exploration at site ongoing (as "Silvana") under new ownership; deposit is sulphide-bearing, but is carbonate-hosted which may provide sufficient neutralization (though neutral pH drainage may still be a concern)	MINFILE Detail Report (#082FNW053)
Snip	Ag, Au, Cu	Potential/Ongoing Redevelopment	Yes	Unknown		56.668611	-131.10888	Historic operation closed; exploration at site ongoing under new ownership	Price WA, 2015.
St. Eugene	Ag, Au, Pb, Zn	Potential/Ongoing Redevelopment	Yes	Unknown		49.285278	-115.82666	Historic operation closed; exploration at site ongoing (as "Silver Fox") under new ownership; deposit is sulphide-bearing	BC Wild and Environmental Mining Council of BC, 2006.; MINFILE Detail Report (#082GSW025)
Table Mountain	Au	Potential/Ongoing Redevelopment	Yes	Unknown		59.195556	-129.685	Historic operation closed; exploration at site ongoing (as "Cassiar Gold") under new ownership	Price WA, 2015.
Taurus	Au	Potential/Ongoing Redevelopment	Yes	Unknown		59.274444	-129.68944	Historic operation closed; exploration at site ongoing (as "Cassiar Gold") under new ownership	Price WA, 2015.
Telkwa Coal	Coal	Potential/Ongoing Redevelopment	Yes	Unknown		54.627222	-127.16138	Historic operation closed; new project proposed on site (as "Tenas") is currently in EA process	Tenas Project Description. 2018. (Sections 3.3.1 Geochemistry & 3.6.3 Material Management and Storage Piles)
Torbrit	Ag, Au, Pb, Zn	Potential/Ongoing Redevelopment	Unknown	Unknown		55.686944	-129.5075	Historic operation closed; exploration at site ongoing (as "Dolly Varden") under new ownership; deposit is high sulphidation, similar to Eskay Creek, so likely has ARD concern	MINFILE Detail Report (#103P 191); Technical Report and Mineral Resource Update for the Dolly Varden Property. 2019. (Section 8 Deposit Types)
Aley	Nb	Proposed	Unknown	Unknown		56.452778	-123.7358	No information in online reports	
Bingay Main	Coal	Proposed	No	Yes		50.201	-114.975		Bingay Main Coal Project Updated Project Description. 2017. (Section 4.2 Geochemistry)
Blackwater	Ag, Au	Proposed	Yes	Unknown		53.1953	-124.8821		Blackwater Gold Mine Project: EAO Assessment Report. 2019. (Sections 2.2.2 Project Components and Activities & 10.2.2 Potential Project Effects and Proposed Mitigation Measures Identified in the Application)
Crown Mountain	Coal	Proposed	No	Yes		49.81	-114.727		Crown Mountain Coking Coal Project Description. 2014. (Section 2.4.2.2 Metal Leaching)
Galore Creek	Ag, Au, Cu	Proposed	Yes	Unknown		57.133	-131.4379	Project received EA approval in 2007, but remains in care and maintenance while project design/construction plans are optimized	Galore Creek Copper-Gold-Silver Project: EAO Assessment Report/Comprehensive Study Report. 2007. (Sections 2.3 Project Description, 5.5 Tailings Storage and Management Alternatives & 5.6 Waste Rock Storage Alternatives)
Hermann	Coal	Proposed	No	Yes		55.0261	-121.14583	Project's EA certificate expired as of 2018, but company has re-applied to mine from pit as an extension to the Wolverine coal project	Hermann Mine Project: EAO Assessment Report. 2008. (Sections 6 Mine Plan, Metal Leaching and Acid Rock Drainage & 10.2 Project Effects)
Kemess Underground	Ag, Au, Cu	Proposed	Yes	Yes		57.0058	-126.7508	Site contains PAG material; elevated contaminant concentrations also predicted even under neutral pH	Kemess Underground Project: EAO Assessment Report. 2017. (Sections 1.2.3 Project Description, 2.3 Issue Summary & 3.3 Water)
KSM	Ag, Au, Cu, Mo	Proposed	Yes	Yes		56.51944	-130.25472	Site contains PAG material; elevated contaminant concentrations also predicted even with ARD mitigation in place	KSM Project: EAO Assessment Report. 2014. (Section 5.2 Surface Water Quality)
Kutcho	Ag, Au, Cu, Zn	Proposed	Yes	Yes		58.2053	-128.36	Site contains PAG material; tailings have potential to leach elevated contaminants under neutral pH	Kutcho Project Description. 2019. (Executive Summary and Sections 3.4 Geochemistry & 4.2 Tailings and Waste Rock)
Murray River	Coal	Proposed	Yes	Yes		55.026	-121.04	Site contains PAG material; elevated contaminant concentrations also predicted even under neutral pH	Murray River Coal Project Application for an Environmental Assessment Certificate/Environmental Impact Statement. 2014. (Section 3.5 Geochemical Characterization)

BC Mines with Known or Potential Water Contamination Concerns, January 2021 - Compiled by Adrienne Berchtold (MSc), SkeenaWild Conservation Trust

Project	Commodity	Project Status (as of 2019/2020)	Acid Rock Drainage Concern	Neutral pH Drainage Concern	Known Contamination (nature unknown)	Latitude	Longitude	Notes	Contamination Status References (see "Additional Information")
New Prosperity	Au, Cu	Proposed	Yes	Unknown		51.45	-123.6	Project granted BC EA approval in 2010, but denied federally; ongoing legal battles with affected Indigenous groups	Prosperity Gold-Copper Project: EAO Assessment Report. 2009. (Section 5.1 Metal Leaching/Acid Rock Drainage)
Red Mountain	Ag, Au	Proposed	Yes	Unknown		55.9666	-129.6878		Price WA, 2015.
Ruddock Creek	Pb, Zn	Proposed	Yes	Unknown		51.773	-118.913		Ruddock Creek Mine Project Description. 2014. (Sections 1 General Information, 7 Project Components, Phases and Activities & 10 Potential Project Effects)
Spanish Mountain	Au	Proposed	Yes	Yes		52.6	-121.466	Project withdrawn from EA process in December 2019; company intends to resume the EA process at some point in future; site contains PAG materials; elevated contaminants from NAG rock expected as well	Spanish Mountain Gold Project Description. 2011. (Sections 5.3 Mine Site Layout and Facilities, 6.3 Geochemistry & 7.1.8 Acid Rock Drainage and Metal Leaching)
Sukunka	Coal	Proposed	Yes	Yes		55.2332	-121.6066	Site contains PAG material; elevated contaminant concentrations also predicted for NAG material	Sukunka Coal Mine Environmental Assessment Application. 2015. (2.2.8 Geochemical Characteristics)
Yellowhead	Ag, Au, Cu	Proposed	Yes	Unknown		51.522	-119.783	Previously named Harper Creek Project; EA process terminated in 2018; new ownership planning to advance project (as "Yellowhead") as of 2019	Application for an Environmental Assessment Certificate/Environmental Impact Statement for the Harper Creek Project. 2015. (Section 6 Geochemistry & Appendix 6-A Metal Leaching and Acid Rock Drainage Characterization)

Additional Information

Acronyms	Methods	Sources
<p>ARD = Acid Rock Drainage EA = Environmental Assessment EAO = Environmental Assessment Office ML = Metals Leaching NAG = Non-Acid Generating PAG = Potentially Acid Generating Ag = Silver Au = Gold Cd = Cadmium Co = Cobalt Cu = Copper Fe = Iron Mo = Molybdenum Nb = Niobium Ni = Nickel Pb = Lead W = Tungsten Zn = Zinc</p>	<p>Based on information provided by the British Columbia Geological Survey (updated to the end of 2019), a dataset of 173 mines in British Columbia (BC) was compiled. All proposed mines, operating mines, and mines under care and maintenance were included. Other sites with historic production were included if a) the total volume of ore mined was greater than or equal to 300,000 tonnes and mining ceased prior to 1985, or b) the total volume of ore mined was greater than or equal to 10,000 tonnes and mining ceased during or after 1985. Sites with historic production where there was no ongoing pursuit of further mining at the time of data collection were listed as Closed/Abandoned. Sites with historic production where there was active exploration, updated permitting or construction, or the site had been included in a newly proposed or operating project at the time of data collection were listed as Potential/Ongoing Redevelopment.</p> <p>All sites containing PAG waste materials (i.e., waste rock and/or tailings) were listed as having acidic drainage concern, unless assessment reports explicitly stated that the PAG materials will be buffered (i.e., neutralized) by the NAG materials on site. The Acidic Drainage Concern category therefore includes both sites where ARD has been demonstrated and sites where ARD will potentially occur in the future.</p> <p>All sites where elevated metals contaminant leaching from NAG material has been predicted or demonstrated were listed as having neutral pH drainage concern. A few other sites having known contamination issues, but a lack of information regarding their ARD/neutral pH drainage status were listed in an "Other Contamination" category.</p>	<p>Information regarding the operational status of mine projects was collected from resources provided by the BC government and mine proponents. Sources used include:</p> <ul style="list-style-type: none"> -BC Geological Survey. 2020. Provincial Overview of Exploration and Mining in British Columbia, 2019. http://cmscontent.nrs.gov.bc.ca/geoscience/PublicationCatalogue/InformationCircular/BCGS_IC2020-01.pdf -BC Mine Information. https://mines.empr.gov.bc.ca/ & https://mines.nrs.gov.bc.ca/ -EPIC. https://projects.eao.gov.bc.ca/ -Individual mine proponent websites <p>Information regarding the contamination status of mine projects was collected from resources made available by the respective mining proponents, regulating bodies, and other reputable research sources. Sources used include:</p> <ul style="list-style-type: none"> -BC Mine Information. https://mines.empr.gov.bc.ca/ & https://mines.nrs.gov.bc.ca/ (Contain mine annual reclamation reports, inspection reports, and permit applications) -EPIC. https://projects.eao.gov.bc.ca/ (Contains EA-related documents such as project descriptions, applications, and EAO assessment reports) -BC Acid Mine Drainage Task Force. 1989. Draft Acid Rock Drainage Technical Guide. http://cmscontent.nrs.gov.bc.ca/geoscience/PublicationCatalogue/Miscellaneous/BCGS_MP-14.pdf -BC Ministry of Energy and Mines. 2003. Historic Mine Sites in British Columbia. http://cmscontent.nrs.gov.bc.ca/geoscience/PublicationCatalogue/OpenFile/BCGS_OF2003-03.pdf -BC Ministry of Water, Land and Air Protection. 2002. Yankee Girl Tailings Environmental Impact Assessment Summary Report. http://www.streamkeepers.bc.ca/reports/YG-WLAP%20ImpactAssessment.pdf -BC Wild and Environmental Mining Council of BC. 2006. 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