

Nevada Division of Environmental Protection
Bureaus of Air Pollution Control & Air Quality Planning
Calendar Year 2020 Actual Production/Emission Reporting Spreadsheet for Mercury Emissions from the Precious Metals Mining Industry

Cumulative Nevada Mercury Control Program (NMCP): Mercury Operating Permit To Construct (MOPTC) Data Submittals

Pollutant ID	Production/Heat Rate	Production Units (eg. tons/yr)	Emissions Factor	Emissions Factor Units	Hg Annual Emissions (lbs/yr)	Hours Operated	Hg Co-Product (tons/yr)	Notes
Source: Nevada Gold Mines LLC - Twin Creeks Mine (formerly Newmont - Twin Creeks Mine): FIN A0003; Class 1 AQOP AP1041-0723.03; MOPTC AP1041-2218								
System Description: Juniper Mill Electric Induction Furnace #1 (S2.008/TU4.001 - 1 of 2, only one operates at a time)								
Hg	413.20	tpy	0.00095	lbs/hr	0.3925	413	0.0000	Induction Furnace #1 emissions factor derived from Sept. 2020 M29 stack test.
System Description: Juniper Mill Electric Induction Furnace #2 (S2.008.1/TU4.002 - 1 of 2, only one operates at a time)								
Hg	Not Reported	tpy	0.00025	lbs/hr	0.1079	432	0.0000	Induction Furnace #2 emissions factor derived from Sept. 2020 M29 stack test.
System Description: Juniper Mill Carbon Kiln (S2.002/TU4.003)								
Hg	4,375.00	tpy	0.00025	lbs/hr	1.6978	6,791	0.0000	Carbon Kiln emissions factor derived from April 2020 M29 stack test.
System Description: Mercury Retort A (Circuit #1: S2.006/TU4.004)								
Hg	66.50	tpy	0.0000048	lbs/hr	0.0219	4,557	0.0000	Retort A emissions factor derived from April 2020 M29 stack test.
System Description: Mercury Retort B (Circuit #2: S2.007/TU4.005)								
Hg	45.30	tpy	0.000024	lbs/hr	0.0846	3,527	0.0000	Retort B emissions factor derived from December 2020 M29 stack test.
System Description: Sage Mill Autoclave #1 (S2.009/TU4.012)								
Hg	2,072,424.60	tpy	0.00036	lbs/hr	2.7093	7,526	0.0000	Autoclave #1 emissions factor derived from October 2020 M29 stack test.
System Description: Sage Mill Autoclave #2 (S2.010/TU4.013)								
Hg	2,050,018.70	tpy	0.00028	lbs/hr	2.0934	7,477	0.0000	Autoclave #2 emissions factor derived from October 2020 M29 stack test.
System Description: Electro-winning Cells (S2.056/TU4.009 - six cells ducted to common stack)								
Hg	79.92	MMgal/yr	0.00032	lbs/hr	2.8109	8,784	0.0000	Electro-winning Cells emissions factor derived from October 2020 M29 stack test.
System Description: Juniper Mill Pregnant & Barren Strip Solution Tanks (S2.053 - S2.055/TU4.006 - TU4.008)								
Hg	79.92	MMgal/yr	0.0016	lbs/hr	14.0544	8,784	0.0000	Preg./Barren Tanks emissions factor derived from October 2020 M29 stack test.
System Description: Pinon Mill Pregnant & Barren Strip Solution Tanks (S2.057 & S2.058/TU4.010 & TU4.011)								
Hg	29.43	MMgal/yr	0.00056	lbs/hr	2.3520	4,200	0.0000	P/B Tanks emissions factor derived from October 2020 M29 stack test.
System Description: Mercury Co-Product								
Hg					0.0000		2.7000	Facility-wide mercury co-product collected, no breakout by system provided.
System Description: Laboratory Sample Prep., Fire Assay, Wet Lab, Slurry Prep., LECO, Instrumentation, Met Lab, & Autoclave Rooms (S2.040 - S2.044/DM3.001 - DM3.042)								
Hg					3.9781		0.0000	Potential to emit (PTE), not actual - see De Minimis Designation Tech. Rev.
					CY2006 Facility Total:		8.9100	CY2006 Co-product: 17,820 lbs/yr
					CY2007 Facility Total:		13.2160	CY2007 Co-product: 26,432 lbs/yr.
					CY2008 Facility Total:		8.8000	CY2008 Co-product: 17,600 lbs/yr.
					CY2009 Facility Total:		5.9080	CY2009 Co-product: 11,816 lbs/yr.
					CY2010 Facility Total:		5.4670	CY2010 Co-product: 10,934 lbs/yr.
					CY2011 Facility Total:		3.9940	CY2011 Co-product: 7,988 lbs/yr.
					CY2012 Facility Total:		4.6530	CY2012 Co-product: 9,308 lbs/yr.
					CY2013 Facility Total:		7.7370	CY2013 Co-product: 15,474 lbs/yr.
					CY2014 Facility Total:		10.0105	CY2014 Co-product: 20,021 lbs/yr.
					CY2015 Facility Total:		5.2900	CY2015 Co-product: 10,580 lbs/yr.
					CY2016 Facility Total:		10.2200	CY2016 Co-product: 20,439 lbs/yr.
					CY2017 Facility Total:		11.0290	CY2017 Co-Product 22,058 lbs/yr.
					CY2018 Facility Total:		16.5000	CY2018 Co-Product 33,000 lbs/yr.
					CY2019 Facility Total:		11.0010	CY2019 Co-Product 22,002 lbs/yr.
					CY2020 Facility Total:		2.7000	CY2020 Co-product: 5,400 lbs/yr collected.

Source: Jerritt Canyon Gold, LLC - Jerritt Canyon Mine: FIN A0004; Class 1 AQOP AP1041-3422; MOPTC AP1041-2217								
System Description: West Roaster Process (S2.031 & S2.033/TU4.002 & TU4.002A - West Roaster & West Quench Tank)								
Hg	Not Reported	tpy	0.00229	lbs/hr	16.4559	7,186	0.0000	Roaster emissions factor derived from June 2020 M29 stack test.
System Description: East Roaster Process (S2.032 & S2.034/TU4.003 & TU4.003A - East Roaster & East Quench Tank)								
Hg	Not Reported	tpy	0.00157	lbs/hr	11.6981	7,451	0.0000	Roaster emissions factor derived from June 2020 M29 stack test.
System Description: Ore Dryer (S2.022/TU4.001)								
Hg	Not Reported	tpy	0.00232	lbs/hr	9.7811	4,216	0.0000	Ore Dryer emissions factor derived from July 2020 M29 stack test.
System Description: Mercury Retort (S2.039.1/TU4.008)								
Hg	Not Reported	tpy	0.000127	lbs/hr	0.3167	2,494	4.6670	Retort emissions factor derived from July 2020 M29 stack test.
System Description: Refining Process Induction Furnace (S2.039.2/TU4.009)								
Hg	Not Reported	tpy	0.000187	lbs/hr	0.0209	112	0.0000	Furnace emissions factor derived from September 2020 M29 stack test.
System Description: Electro-winning Cells & Pregnant/Barren Strip Solution Tanks (S2.038.1 - S2.038.4/TU4.004 - TU4.007)								
Hg	Not Reported	gal/yr	0.001501	lbs/hr	11.0369	7,353	0.0000	EW Cells and P/B Tanks emissions factor derived from July 2020 M29 stack test.
System Description: Mercury Co-Product								
Hg					0.0000		0.0000	Facility-wide mercury co-product collected, no breakout by system provided.
System Description: Laboratory Units Including Five Large Ore Drying Ovens (S2.042.1 - S2.042.3/DM3.001 - DM3.017)								
Hg					4.2726		0.0000	Potential to emit (PTE), not actual - see De Minimis Designation Tech. Rev.
			CY2006 Facility Total:		293.9245		2.9600	CY2006 Co-product: 5,920 lbs/yr.
			CY2007 Facility Total:		1,966.3934		1.0200	CY2007 Co-product: 2,040 lbs/yr.
			CY2008 Facility Total:		219.9723		0.7100	CY2008 Co-product: 1,420 lbs/yr.
			CY2009 Facility Total:		138.9704		2.1000	CY2009 Co-product: 4,200 lbs/yr.
			CY2010 Facility Total:		34.9527		11.0380	CY2010 Co-product: 22,076 lbs/yr.
			CY2011 Facility Total:		69.8714		0.0000	CY2011 Co-product: 0.00 lbs/yr.
			CY2012 Facility Total:		29.8595		1.5200	CY2012 Co-product: 3,040 lbs/yr.
			CY2013 Facility Total:		26.6023		2.5600	CY2013 Co-product: 5,120 lbs/yr.
			CY2014 Facility Total:		13.4934		3.9820	CY2014 Co-product: 7,964 lbs/yr.
			CY2015 Facility Total:		97.0995		5.3400	CY2015 Co-product: 10,675 lbs/yr.
			CY2016 Facility Total:		134.1763		4.4500	CY2016 Co-product: 8,900 lbs/yr.
			CY2017 Facility Total:		148.8118		5.0200	CY2017 Co-product: 10,035 lbs/yr.
			CY2018 Facility Total:		112.3515		10.2800	CY2018 Co-product: 20,557 lbs/yr.
			CY2019 Facility Total:		32.8193		4.7230	CY2019 Co-product: 9,445 lbs/yr.
			CY2020 Facility Total:		53.5823		4.6670	CY2020 Co-product: 9,334 lbs/yr.

Source: Nevada Gold Mines LLC - Carlin Mine (formerly Newmont - Gold Quarry): FIN A0002; Class 1 AQOP AP1041-0793.02; MOPTC AP1041-2219								
System Description: Mill 6 Static Separator Double Rotator Air Pre-Heater (S2.120/TU4.001)								
Hg	3,287,309.00	tpy	0.00207	lbs/hr	15.7030	7,586	0.0000	Static Separator emissions factor derived from September 2020 M29 stack test.
System Description: CFB North and South Ore Preheaters (S2.126 & S2.129/ TU4.002 & TU4.003)								
Hg	3,361,028.00	tpy	0.000555	lbs/hr	4.3326	7,806	0.0000	Ore Preheater's emissions factor derived from September 2020 M29 stack test.
System Description: CFB North and South Ore Roasters (S2.133 & S2.145/TU4.004 & TU4.005)								
Hg	3,361,028.00	tpy	0.0017	lbs/hr	13.2702	7,806	5.5100	Ore Roaster's factor derived from September 2020 M29 stack test.
System Description: ROTP North Calcine Quench Circuit (S2.158 & S2.159/TU4.006 - TU4.009)								
Hg	1,802,402.00	tpy	0.00466	lbs/hr	34.6191	7,429	0.0000	North Quench Circuit emissions factor derived from Sept. 2020 M29 stack test.
System Description: ROTP South Calcine Quench Circuit (S2.160 & S2.161/TU4.010 - TU4.013)								
Hg	1,558,625.00	tpy	0.00419	lbs/hr	31.0060	7,400	0.0000	South Quench Circuit emissions factor derived from Sept. 2020 M29 stack test.
System Description: AARL Carbon Stripping Circuit Pregnant Tanks (S2.228 & S2.229/TU4.014 & TU4.015)								
Hg	45,273,653.00	gal/yr	0.000365	lbs/hr	3.0394	8,327	0.0000	Carbon Strip Circuit EF derived from average of September 2020 M29 stack tests.
System Description: Refinery Barren Tank & Electro-winning Cells (S2.230/TU4.016 & TU4.017)								
Hg	45,273,653.00	gal/yr	0.000736	lbs/hr	5.9344	8,063	0.0000	Barren Tank/EW Cells EF derived from average of Sept. 2020 M29 stack tests.
System Description: Electric Refinery Induction Furnaces (S2.047 - S2.049/TU4.024 - TU4.026)								
Hg	77.90	tpy	0.0321	lbs/hr	15.4080	480	0.0000	Induction Furnaces EF derived from average of September 2020 M29 stack tests.
System Description: Carbon Kiln #1 (Zadra Building) Scrubber Stack (S2.056/TU4.027)								
Hg	8,092.00	tpy	0.00284	lbs/hr	23.0512	8,117	0.2600	Carbon Kiln #1 EF derived from average of September 2020 M29 stack tests.
System Description: Carbon Kiln #2 (AARL Building) Scrubber Stack (S2.058/TU4.028)								
Hg	7,892.00	tpy	0.0034	lbs/hr	27.1388	7,982	0.5800	Carbon Kiln #2 EF derived from average of September 2020 M29 stack tests.
System Description: Refinery Mercury Retort Circuit #1 (S2.225/TU4.029)								
Hg	24.50	tpy	4.96E-08	lbs/hr	0.0001	1,407	1.8200	Retort Circuit #1 emissions factor derived from September 2020 M29 stack test.
System Description: Refinery Mercury Retort Circuit #2 (S2.226/TU4.030)								
Hg	19.90	tpy	6.35E-08	lbs/hr	0.0001	1,159	1.4100	Retort Circuit #2 emissions factor derived from September 2020 M29 stack test.
System Description: Refinery Mercury Retort Circuit #3 (S2.227/TU4.031)								
Hg	14.50	tpy	1.07E-07	lbs/hr	0.0001	1,052	1.4600	Retort Circuit #3 emissions factor derived from September 2020 M29 stack test.
System Description: Mercury Co-Product								
Hg					0.0000		0.0000	Facility reported by thermal unit, see table.
System Description: Assay Laboratory, Met Laboratory & Integrated Laboratory (S2.230/DM3.001 - DM3.074)								
Hg					0.9080		0.0000	Potential to emit (PTE), not actual - see De Minimis Designation Tech. Rev.
					CY2006 Facility Total:	310.6937	2.7200	CY2006 Co-product: 5,440 lbs/yr.
					CY2007 Facility Total:	504.4204	6.1600	CY2007 Co-product: 12,320 lbs/yr.
					CY2008 Facility Total:	422.4137	6.7700	CY2008 Co-product: 13,540 lbs/yr.
					CY2009 Facility Total:	280.6857	5.3900	CY2009 Co-product: 10,780 lbs/yr.
					CY2010 Facility Total:	397.1321	5.7000	CY2010 Co-product: 11,400 lbs/yr.
					CY2011 Facility Total:	222.6075	3.8500	CY2011 Co-product: 7,700 lbs/yr.
					CY2012 Facility Total:	231.8539	7.6100	CY2012 Co-product: 15,220 lbs/yr.
					CY2013 Facility Total:	96.6344	4.3200	CY2013 Co-product: 8,640 lbs/yr.
					CY2014 Facility Total:	115.9110	6.2800	CY2014 Co-product: 12,560 lbs/yr.
					CY2015 Facility Total:	180.7430	5.2700	CY2015 Co-product: 10,540 lbs/yr.
					CY2016 Facility Total:	132.1134	6.2500	CY2016 Co-product: 12,500 lbs/yr.
					CY2017 Facility Total:	193.9456	11.0100	CY2017 Co-product: 22,020 lbs/yr.
					CY2018 Facility Total:	245.1659	9.7685	CY2018 Co-product: 19,540 lbs/yr.
					CY2019 Facility Total:	310.9579	11.1210	CY2019 Co-product: 22,420 lbs/yr.
					CY2020 Facility Total:	174.4109	11.0400	CY2020 Co-product: 22,080 lbs/yr.

Source: Klondex Midas Operations, Inc. - Midas/Ken Snyder Mine: FIN A0175; Class 2 AQOP AP1041-0766.02; OPTC AP1041-2989; MOPTC AP1041-2253								
System Description: Refinery Furnace #1 (S2.044/TU4.001)								
Hg	Not Reported	tpy	0.000072	lbs/hr	0.0013	19	0.0000	Furnace #1 emissions factor derived from September 2019 M29 stack test.
System Description: Refinery Furnace #2 (S2.045/TU4.002)								
Hg	Not Reported	tpy	0.00026	lbs/hr	0.0049	19	0.0000	Furnace #2 emissions factor derived from September 2019 M29 stack test.
System Description: Retort A (S2.047/TU4.003)								
Hg	0.00	tpy	0	lbs/hr	0.0000	0	0.0000	Retort A did not operate in 2020.
System Description: Retort C (S2.052/TU4.005)								
Hg	Not Reported	tpy	0.00000103	lbs/hr	0.0000	27	0.0001	Retort C emissions factor derived from September 2019 M29 stack test.
System Description: Mercury Co-Product								
Hg					0.0000		0.0000	Facility-wide mercury co-product reported under Retorts A & C.
System Description: Assay Laboratory (S2.044 & S2.045/DM3.001 - DM3.012)								
Hg				lbs/hr	2.3159		0.0000	Potential to emit (PTE), not actual - see De Minimis Designation Tech. Rev.
The Midas refinery was placed on care and maintenance in May, 2020. Therefore, no performance testing was conducted in 2020, stack test results reported are 2019 test results.	CY2006 Facility Total:			17.1801			0.0000	CY2006 Co-product: 0.00 lbs/yr.
	CY2007 Facility Total:			4.2457			0.0000	CY2007 Co-product: 0.00 lbs/yr.
	CY2008 Facility Total:			41.3420			0.0000	CY2008 Co-product: 0.00 lbs/yr.
	CY2009 Facility Total:			6.4395			0.0000	CY2009 Co-product: 0.00 lbs/yr.
	CY2010 Facility Total:			14.2333			0.0000	CY2010 Co-product: 0.00 lbs/yr.
	CY2011 Facility Total:			32.0815			0.0099	CY2011 Co-product: 19.87 lbs/yr.
	CY2012 Facility Total:			21.8322			0.0100	CY2012 Co-product: 10.40 lbs/yr.
	CY2013 Facility Total:			16.3548			0.0059	CY2013 Co-product: 11.90 lbs/yr.
	CY2014 Facility Total:			2.6214			0.0030	CY2014 Co-product: 5.72 lbs/yr.
	CY2015 Facility Total:			3.0071			0.0020	CY2015 Co-product: 3.96 lbs/yr.
	CY2016 Facility Total:			6.5749			0.0020	CY2016 Co-product: 3.24 lbs/yr.
	CY2017 Facility Total:			16.1134			0.0000	CY2017 Co-product: 0.18 lbs/yr.
	CY2018 Facility Total:			2.5650			0.1000	CY2018 Co-product: 20 lbs/yr.
	CY2019 Facility Total:			2.4908			0.0004	CY2019 Co-product: 0.80 lbs/yr.
CY2020 Facility Total:			2.3222			0.0001	CY2020 Co-product: 0.12 lbs/yr. (0.00006 tpy)	

Source: KG Mining (Bald Mountain), Inc - Huntington Valley/Mooney Basin/South Ops.: FIN 0393; Class 2 AQOP AP1041-1362.02; Class 2 AQOP AP1041-3861; MOPTC AP1041-2246								
System Description: Carbon Converter (TU4.007/S2.023)								
Hg	Not Reported	tpy	0.013	lbs/hr	1.6250	125	0.0000	Carbon Converter emissions factor supplied by source with no back-up.
System Description: Assay Laboratory (DM3.001 - DM3.018)								
Hg					3.5985		0.0000	Potential to emit (PTE), not actual - see De Minimis Designation Tech. Review.
					CY2006 Facility Total: 204.3025		2.9400	CY2006 Co-product: 5,880 lbs/yr.
					CY2007 Facility Total: 57.4138		2.2750	CY2007 Co-product: 4,550 lbs/yr.
					CY2008 Facility Total: 278.3220		2.6000	CY2008 Co-product: 5,200 lbs/yr.
					CY2009 Facility Total: 5.8995		1.5600	CY2009 Co-product: 3,120 lbs/yr.
					CY2010 Facility Total: 7.8188		1.4300	CY2010 Co-product: 2,860 lbs/yr.
					CY2011 Facility Total: 3.2198		1.6100	CY2011 Co-product: 3,220 lbs/yr.
					CY2012 Facility Total: 3.1464		0.0000	CY2012 Co-product: 0.00 lbs/yr.
					CY2013 Facility Total: 3.6439		0.0000	CY2013 Co-product: 0.00 lbs/yr.
					CY2014 Facility Total: 3.6439		0.0000	CY2014 Co-product: 0.00 lbs/yr.
					CY2015 Facility Total: 3.1239		0.0000	CY2015 Co-product: 0.00 lbs/yr.
					CY2016 Facility Total: 3.1239		0.0000	CY2016 Co-product: 0.00 lbs/yr.
					CY2017 Facility Total: 2.3239		0.0000	CY2017 Co-product: 0.00 lbs/yr.
					CY2018 Facility Total: 2.3239		0.0000	CY2018 Co-product: 0.00 lbs/yr.
					CY2019 Facility Total: 2.3239		0.0000	CY2019 Co-product: 0.00 lbs/yr.
					CY2020 Facility Total: 5.2235		0.0000	CY2020 Co-product: 0.00 lbs/yr.

Source: Rawhide Mining, LLC - Denton-Rawhide Mine (formerly Kennecott Rawhide Mining Company): FIN 0406; Class 1 AQOP AP1041-2892; OPTC AP1041-2975; MOPTC AP1041-2245								
System Description: Carbon Regeneration Kiln (S2.001)								
Hg	Not Reported	tpy	0.00053	lbs/hr	4.0943	7,725	0.0000	Carbon Kiln emissions factor derived from December 2020 M29 stack test.
System Description: Electro-winning Circuit (IA3.007)								
Hg	Not Reported	gal/yr	0.000184	lbs/hr	0.6526	3,547	0.0000	Electro-winning Cells emissions factor derived from December 2020 M29 stack test.
System Description: Refinery Induction Furnace (S2.004)								
Hg	Not Reported	tpy	0.000218	lbs/hr	0.2171	996	0.0000	Refinery Furnace emissions factor derived from December 2020 M29 stack test.
System Description: Mercury Retort (S2.002)								
Hg	Not Reported	tpy	0.0000032	lbs/hr	0.0222	6,941	0.0000	Retort emissions factor derived from December 2020 M29 stack test.
System Description: Mercury Co-Product								
Hg					0.0000		0.1896	Facility-wide mercury co-product collected, 99% retort derived.
System Description: Fire Assay Laboratory (DM3.001 - DM3.008)								
Hg					0.0143		0.0000	Potential to emit (PTE), not actual - see De Minimis Designation Tech. Rev.
			CY2006 Facility Total:		351.5928		0.0621	CY2006 Co-product: 124.20 lbs/yr.
			CY2007 Facility Total:		39.5645		0.0276	CY2007 Co-product: 55.20 lbs/yr.
			CY2008 Facility Total:		13.0908		0.0262	CY2008 Co-product: 52.40 lbs/yr.
			CY2009 Facility Total:		12.0029		0.0258	CY2009 Co-product: 51.60 lbs/yr.
			CY2010 Facility Total:		37.6433		0.0079	CY2010 Co-product: 15.80 lbs/yr.
			CY2011 Facility Total:		78.5131		0.0230	CY2011 Co-product: 46.00 lbs/yr.
			CY2012 Facility Total:		7.1176		0.0249	CY2012 Co-product: 49.80 lbs/yr.
			CY2013 Facility Total:		0.0743		0.1270	CY2013 Co-product: 254 lbs/yr.
			CY2014 Facility Total:		0.1924		0.0193	CY2014 Co-product: 38.60 lbs/yr.
			CY2015 Facility Total:		0.3959		0.0102	CY2015 Co-product: 20.40 lbs/yr.
			CY2016 Facility Total:		0.5412		0.0005	CY2016 Co-product: 1.04 lbs/yr.
			CY2017 Facility Total:		0.3312		0.0006	CY2017 Co-product: 1.20 lbs/yr.
			CY2018 Facility Total:		0.2867		0.0013	CY2018 Co-product: 2.60 lbs/yr.
			CY2019 Facility Total:		3.2050		0.0208	CY2019 Co-product: 41.5 lbs/yr.
			CY2020 Facility Total:		5.0005		0.1896	CY2020 Co-product: 379.2 lbs/yr.

Source: Hycroft Resources & Development, Inc. - Crofoot/Lewis Mine: FIN 0390; Class 2 AQOP AP1041-0334.02; OPTC AP1041-2974; OPTC AP1041-3269; OPTC AP1041-3344; MOPTC AP1041-2255								
System Description: Mercury Retort #1 (TU4.001)								
Hg	Not Reported	tpy	0.00000746	lbs/hr	0.0275	3,683	0.0000	Retort emissions factor derived from June 2020 M29 stack test.
System Description: Smelting Furnace #1 (TU4.002)								
Hg	Not Reported	tpy	0.0000285	lbs/hr	0.0886	3,109	0.0000	Furnace emissions factor derived from June 2020 M29 stack test.
System Description: Mercury Retort #2 (TU4.003)								
Hg	Not Reported	tpy	0.0000166	lbs/hr	0.0564	3,396	0.0000	Retort emissions factor derived from June 2020 M29 stack test.
System Description: Mercury Retort #3 (TU4.004)								
Hg		tpy		lbs/hr	0.0000		0.0000	System not yet constructed.
System Description: Mercury Retort #4 (TU4.005)								
Hg		tpy		lbs/hr	0.0000		0.0000	System not yet constructed.
System Description: Mercury Retort #5 (TU4.006)								
Hg		tpy		lbs/hr	0.0000		0.0000	System not yet constructed.
System Description: Smelting Furnace #2 (TU4.007)								
Hg		tpy		lbs/hr	0.0000		0.0000	System not yet constructed.
System Description: Smelting Furnace #3 (TU4.008)								
Hg		tpy		lbs/hr	0.0000		0.0000	System not yet constructed.
System Description: Mercury Co-Product								
Hg					0.0000		0.0000	Facility-wide mercury co-product collected, no breakout by system provided.
System Description: Assay Laboratory (DM3.001 - DM3.057)								
Hg					4.4797		0.0000	Potential to emit (PTE), not actual - see De Minimis Designation Tech. Rev.
			CY2006 Facility Total:		0.0000		0.0000	CY2006 Co-product: 0.00 lbs/yr.
			CY2007 Facility Total:		0.0000		0.0000	CY2007 Co-product: 0.00 lbs/yr.
			CY2008 Facility Total:		0.0000		0.0000	CY2008 Co-product: 0.00 lbs/yr.
			CY2009 Facility Total:		4.5299		0.8000	CY2009 Co-product: 1,600 lbs/yr.
			CY2010 Facility Total:		4.5219		4.2000	CY2010 Co-product: 8,400 lbs/yr.
			CY2011 Facility Total:		4.5242		23.0700	CY2011 Co-product: 46,147 lbs/yr.
			CY2012 Facility Total:		4.4784		34.0200	CY2012 Co-product: 68,047 lbs/yr.
			CY2013 Facility Total:		4.4959		27.6700	CY2013 Co-product: 53,340 lbs/yr.
			CY2014 Facility Total:		5.8421		56.9100	CY2014 Co-product: 113,820 lbs/yr.
			CY2015 Facility Total:		5.6891		35.7000	CY2015 Co-product: 71,400 lbs/yr.
			CY2016 Facility Total:		6.6141		7.3750	CY2016 Co-product: 14,750 lbs/yr.
			CY2017 Facility Total:		4.7013		0.7500	CY2017 Co-product: 1,500 lbs/yr.
			CY2018 Facility Total:		4.4797		0.0000	CY2018 Co-product: 0.00 lbs/yr.
			CY2019 Facility Total:		9.6269		0.0000	CY2019 Co-product: 0.00 lbs/yr. No Hg Co-product reported for 2019.
			CY2020 Facility Total:		4.6522		0.0000	CY2020 Co-product: 0 lbs/yr.

Source: Klondex Aurora Mine, Inc.: FIN 0408; Class 2 AQOP AP1041-3858; OPTC AP1041-2853; MOPTC AP1041-2248								
System Description: Carbon Regeneration Kiln, Solution Tanks & Electro-winning Circuit (S2.002 - S2.005/TU4.001 - TU4.003 & TU4.006)								
Hg	DNO	tpy	0	lbs/hr	0.0000	0	0.0000	Carbon Kiln comb. circuit did not operate in 2020.
System Description: Mercury Retorts, Solution Tanks & Electro-winning Circuit (S2.002 - S2.004, S2.006 & S2.007/TU4.002 - TU4.006)								
Hg	Not Reported	tpy	0.000029	lbs/hr	0.0153	529	0.0000	Retorts combined circuit emissions factor derived from October 2019 M29 stack test.
System Description: Dore Furnace, Solution Tanks & Electro-winning Circuit (S2.002 - S2.004 & S2.008/TU4.002, TU4.003, TU4.006 & TU4.007)								
HG	DNO	tpy	0	lbs/hr	0.0000	0	0.0000	Furnace combined circuit did not operate in 2020.
System Description: Mercury Co-Product								
Hg					0.0000		0.0000	Facility-wide mercury co-product collected, no breakout by system provided.
System Description: Assay Laboratory (S2.002 - S2.004 & S2.008/DM3.002 - DM3.011)								
Hg					0.0076		0.0000	Potential to emit (PTE) of 0.0076 lbs/yr, not actual - see DM Technical Review.
The Esmeralda Project refinery was placed on care and maintenance in early 2020. Therefore, no performance testing was conducted in 2020, stack test results reported are 2019 test results.					CY2006 Facility Total:		0.0000	CY2006 Co-product: 0.00 lbs/yr.
					CY2007 Facility Total:		0.0000	CY2007 Co-product: 0.00 lbs/yr.
					CY2008 Facility Total:		0.2838	CY2008 Co-product: 0.00 lbs/yr.
					CY2009 Facility Total:		0.2838	CY2009 Co-product: 0.00 lbs/yr.
					CY2010 Facility Total:		0.0222	CY2010 Co-product: 0.00 lbs/yr.
					CY2011 Facility Total:		0.0022	CY2011 Co-product: 0.00 lbs/yr.
					CY2012 Facility Total:		3.7066	CY2012 Co-product: 0.00 lbs/yr.
					CY2013 Facility Total:		0.0276	CY2013 Co-product: 0.00 lbs/yr.
					CY2014 Facility Total:		0.0076	CY2014 Co-product: 0.00 lbs/yr.
					CY2015 Facility Total:		0.0000	CY2015 Co-product: 0.00 lbs/yr.
					CY2016 Facility Total:		0.0076	CY2016 Co-product: 0.00 lbs/yr.
					CY2017 Facility Total:		0.0223	CY2017 Co-product: 0.00 lbs/yr.
					CY2018 Facility Total:		0.0458	CY2018 Co-product: 0.00 lbs/yr.
					CY2019 Facility Total:		0.2876	CY2019 Co-product: 0.00 lbs/yr. No Hg Co-product reported for 2019.
				CY2020 Facility Total:		0.0229	0.0000	CY2020 Co-product: X.XX lbs/yr.

Source: Coeur D'Alene Mining Corporation - Coeur Rochester Mine: FIN 0412; Class 2 AQOP AP1044-0063.04; MOPTC AP1044-2242								
System Description: Refinery Furnace (S2.003/TU4.001)								
Hg	Not Reported	tpy	0.00107	lbs/hr	0.8817	824	0.0000	Refinery Furnace emissions factor derived from February 2020 M29 stack test.
System Description: Mercury Retorts (S2.004 & S2.005/TU4.002 & TU4.003)								
Hg	Not Reported	tpy	0.0000144	lbs/hr	0.1532	10,640	0.0000	Retort emissions factor derived from February 2020 M29 stack test.
System Description: Mercury Co-Product								
Hg					0.0000		6.1275	Facility-wide mercury co-product collected, all from retort operations.
System Description: Assay Laboratory (S2.016 - S2.019/DM3.001 - DM3.019)								
Hg					1.8805		0.0000	Potential to emit (PTE), not actual - see De Minimis Designation Tech. Rev.
			CY2006 Facility Total:		2.8872		16.1000	CY2006 Co-product: 32,200 lbs/yr.
			CY2007 Facility Total:		137.0958		15.4000	CY2007 Co-product: 30,800 lbs/yr.
			CY2008 Facility Total:		9.9144		15.6000	CY2008 Co-product: 31,200 lbs/yr.
			CY2009 Facility Total:		4.4097		10.7000	CY2009 Co-product: 21,400 lbs/yr.
			CY2010 Facility Total:		2.6426		12.3000	CY2010 Co-product: 24,600 lbs/yr.
			CY2011 Facility Total:		3.3523		11.2000	CY2011 Co-product: 22,400 lbs/yr.
			CY2012 Facility Total:		3.2552		20.4000	CY2012 Co-product: 40,800 lbs/yr.
			CY2013 Facility Total:		2.6378		14.5000	CY2013 Co-product: 29,000 lbs/yr.
			CY2014 Facility Total:		2.1938		13.2000	CY2014 Co-product: 26,400 lbs/yr.
			CY2015 Facility Total:		4.2967		10.4000	CY2015 Co-product: 20,800 lbs/yr.
			CY2016 Facility Total:		3.2330		7.9000	CY2016 Co-product: 15,800 lbs/yr.
			CY2017 Facility Total:		2.3819		9.7000	CY2017 Co-product: 19,480 lbs/yr.
			CY2018 Facility Total:		2.7256		11.8000	CY2018 Co-product: 23,600 lbs/yr.
			CY2018 Facility Total:		3.2955		9.1690	CY2019 Co-product: 18,338 lbs/yr.
			CY2020 Facility Total:		2.9154		6.1275	CY2020 Co-product: 12,255 lbs/yr.

Source: Newmont Mining Corporation - Lone Tree Mine: FIN 0385; Class 2 AQOP AP1041-3575; MOPTC AP1041-2251

System Description: Sample Room, Fire Assay Room, Wet Laboratory, LECO Laboratory, Met Laboratory (S2.014 - S2.019/DM3.001 - DM3.034)

Hg			2.1131	0.0000	Potential to emit (PTE), not actual - see De Minimis Designation Tech. Rev.
	CY2006 Facility Total:	622.1013		0.0000	CY2006 Co-product: 0.00 lbs/yr.
	CY2007 Facility Total:	148.0964		0.0000	CY2007 Co-product: 0.00 lbs/yr.
	CY2008 Facility Total:	67.1251		0.0000	CY2008 Co-product: 0.00 lbs/yr.
	CY2009 Facility Total:	7.2136		0.0000	CY2009 Co-product: 0.00 lbs/yr.
	CY2010 Facility Total:	3.0212		0.0000	CY2010 Co-product: 0.00 lbs/yr.
	CY2011 Facility Total:	1.8788		0.0000	CY2011 Co-product: 0.00 lbs/yr.
	CY2012 Facility Total:	1.8788		0.0000	CY2012 Co-product: 0.00 lbs/yr.
	CY2013 Facility Total:	1.8788		0.0000	CY2013 Co-product: 0.00 lbs/yr.
	CY2014 Facility Total:	1.8788		0.0000	CY2014 Co-product: 0.00 lbs/yr.
	CY2015 Facility Total:	1.8788		0.0000	CY2015 Co-product: 0.00 lbs/yr.
	CY2016 Facility Total:	1.8788		0.0000	CY2016 Co-product: 0.00 lbs/yr.
	CY2017 Facility Total:	1.8788		0.0000	CY2017 Co-product: 0.00 lbs/yr.
	CY2018 Facility Total:	1.6849		0.0000	CY2018 Co-product: 0.00 lbs/yr.
	CY2019 Facility Total:	1.6849		0.0000	CY2019 Co-product: 0.00 lbs/yr.
	CY2020 Facility Total:	2.1131		0.0000	CY2020 Co-product: 0.00 lbs/yr.

Source: Barrick Cortez, Inc. - Cortez Hills and Pipeline Projects: FIN 0001; Class 1 AQOP AP1041-2141; MOPTC AP1041-2220								
System Description: Refinery Induction Furnace #1 (S2.002/TU4.003)								
Hg	Not Reported	tpy	0.000028	lbs/hr	0.0055	198	0.0000	Furn. #1 ducted in-line with Retorts, EF derived from August 2020 M29 stack test.
System Description: Refinery Induction Furnace #2 (S2.003/TU4.004)								
Hg	Not Reported	tpy	0.000035	lbs/hr	0.0017	49	0.0000	Furn. #2 ducted in-line with Retorts, EF derived from August 2020 M29 stack test.
System Description: Electric Carbon Reactivation Kiln #1 (S2.007/TU4.005)								
Hg	405.00	tpy	0.00029	lbs/hr	0.2401	828	0.0000	Carbon Kiln #1 emissions factor derived from August 2020 M29 stack test.
System Description: Electric Carbon Reactivation Kiln #2 (S2.008/TU4.006)								
Hg	479.00	tpy	0.00011	lbs/hr	0.1069	972	0.0000	Carbon Kiln #2 emissions factor derived from August 2020 M29 stack test.
System Description: East Electro-winning Circuit including Pregnant and Barren Strip Solution Tanks (S2.060, S2.062 & S2.063/TU4.001, TU4.008 & TU4.009)								
Hg	29,719.00	1000gal/yr	0.000054	lbs/hr	0.4100	7,593	0.0000	East EW Circuit emissions factor derived from August 2020 M29 stack test.
System Description: West Electro-winning Circuit including Pregnant and Barren Strip Solution Tanks (S2.061, S2.062 & S2.063/TU4.002, TU4.008 & TU4.009)								
Hg	27,895.44	1000gal/yr	0.002	lbs/hr	14.7553	7,378	0.0000	West EW Circuit emissions factor derived from August 2020 M29 stack test.
System Description: Mercury Retort A (S2.004/TU4.010)								
Hg	14.78	tpy	0.000052	lbs/hr	0.0728	1,400	0.0000	Retort A emissions factor derived from August 2020 M29 stack test.
System Description: Mercury Retort B (S2.005/TU4.011)								
Hg	7.50	tpy	0.000045	lbs/hr	0.0423	940	0.0000	Retort B emissions factor derived from August 2020 M29 stack test.
System Description: Mercury Retort C (S2.006/TU4.012)								
Hg	0.00	tpy	0	lbs/hr	0.0000	0	0.0000	Retort C did not operate in 2020, not yet constructed.
System Description: Mercury Co-Product								
Hg					0.0000		0.2700	Facility-wide mercury co-product collected, no breakout by system provided.
System Description: Assay Laboratory, Met Laboratory, Strip Circuit Area (Mill Building), Refinery Gold Sludge Drying Oven, Fire Assay Fusion Furnaces (S2.018a-g/DM3.001 - DM3.020)								
Hg					1.8841		0.0000	Potential to emit (PTE), not actual - see De Minimis Designation Tech. Rev.
			CY2006 Facility Total:		166.7059		0.1200	CY2006 Co-product: 240 lbs/yr.
			CY2007 Facility Total:		208.0466		0.3200	CY2007 Co-product: 640 lbs/yr.
			CY2008 Facility Total:		75.8638		0.0000	CY2008 Co-product: 0.00 lbs/yr.
			CY2009 Facility Total:		1.3905		0.0170	CY2009 Co-product: 34 lbs/yr.
			CY2010 Facility Total:		5.1862		0.0000	CY2010 Co-product: 0.00 lbs/yr.
			CY2011 Facility Total:		5.1815		0.7200	CY2011 Co-product: 1,441 lbs/yr.
			CY2012 Facility Total:		4.2156		1.2100	CY2012 Co-product: 2,412 lbs/yr.
			CY2013 Facility Total:		15.7637		2.2740	CY2013 Co-product: 4,458 lbs/yr.
			CY2014 Facility Total:		2.2159		0.4900	CY2014 Co-product: 980 lbs/yr.
			CY2015 Facility Total:		4.6010		1.1700	CY2015 Co-product: 2,340 lbs/yr.
			CY2016 Facility Total:		6.0125		0.2600	CY2016 Co-product: 524 lbs/yr.
			CY2017 Facility Total:		3.8086		0.0000	CY2017 Co-product: 0.00 lbs/yr.
			CY2018 Facility Total:		3.3285		0.0000	CY2018 Co-product: 0.00 lbs/yr.
			CY2019 Facility Total:		19.9164		0.2850	CY2019 Co-product: 570 lbs/yr.
			CY2020 Facility Total:		17.5188		0.2700	CY2020 Co-product: 536 lbs/yr.

Source: Florida Canyon Mining, Inc. - Florida Canyon Mine: FIN 0386; Class 2 AQOP AP1041-0106.03; MOPTC AP1041-2256								
System Description: Summit Valley Mercury Retort A (S2.005/TU4.004)								
Hg	Not Reported	tpy	0.00005758	lbs/hr	0.0273	475	0.0000	Retort A EF derived from average of October and December 2020 M29 stack tests.
System Description: Custom Mercury Retort B (S2.006/TU4.005)								
Hg	Not Reported	tpy	2.0314E-05	lbs/hr	0.0121	595	0.0000	Retort B emissions factor derived from August 2019 M29 stack tests.
System Description: Electro-winning Cell A (IA1.039/TU4.002)								
Hg	Not Reported	tpy	0.0004485	lbs/hr	3.7889	8,448	0.0000	EW Cell A EF derived from avg. of October and December 2020 M29 stack tests.
System Description: Electro-winning Cell B (IA1.039/TU4.003)								
Hg	Not Reported	tpy	0.0001547	lbs/hr	1.3069	8,448	0.0000	EW Cell B EF derived from avg. of October and December 2020 M29 stack tests.
System Description: Carbon Regeneration Kiln (S2.004/TU4.008)								
Hg	Not Reported	tpy	0.00146445	lbs/hr	1.8839	1,286	0.0000	C Kiln EF derived from average of October and December 2019 M29 stack tests.
System Description: Dore Furnace (S2.003/TU4.001)								
Hg	Not Reported	tpy	0.0266385	lbs/hr	6.3266	238	0.0000	Furnace EF derived from average of October and December 2020 M29 stack tests.
System Description: Pregnant Tank (IA1.039/TU4.006)								
Hg	Not Reported	hrs/yr		lbs/hr	0.0000	8,448	0.0000	Pregnant Tank moved to permit 01/22/2020, no testing conducted in 2020.
System Description: Barren Tank (IA1.039/TU4.007)								
Hg	Not Reported	hrs/yr		lbs/hr	0.0000	8,448	0.0000	Barren Tank moved to permit 01/22/2020, no testing conducted in 2020.
System Description: Mercury Co-Product								
Hg					0.0000		0.1660	Facility-wide mercury co-product collected, no breakout by system provided.
System Description: Assay Laboratory, Electro-winning Cells A & B, Pregnant & Barren Tanks and Dore Furnace (S2.004/DM3.001 - DM3.020)								
Hg					2.9861		0.0000	Calculated PTE = 2.9861 lbs/yr. EW Cells and Dore Furnace reported separately.
			CY2006 Facility Total:		440.7382		0.2264	CY2006 Co-product: 452.80 lbs/yr.
			CY2007 Facility Total:		19.0000		0.0072	CY2007 Co-product: 14.40 lbs/yr.
			CY2008 Facility Total:		162.3117		0.2875	CY2008 Co-product: 575 lbs/yr.
			CY2009 Facility Total:		49.6118		0.8120	CY2009 Co-product: 1,624 lbs/yr.
			CY2010 Facility Total:		111.8133		0.3090	CY2010 Co-product: 618 lbs/yr.
			CY2011 Facility Total:		51.7290		1.2700	CY2011 Co-product: 2,538 lbs/yr. (1,829.00 "liquid"; 709.00 sludge)
			CY2012 Facility Total:		8.2449		0.6300	CY2012 Co-product: 1,252 lbs/yr. (892.00 "liquid"; 360.00 sludge)
			CY2013 Facility Total:		4.2320		1.2150	CY2013 Co-product: 1,450 lbs/yr. (sludge)
			CY2014 Facility Total:		4.1346		0.1250	CY2014 Co-product: 250 lbs/yr. (sludge)
			CY2015 Facility Total:		33.4578		0.8960	CY2015 Co-product: 1,792 lbs/yr. (sludge)
			CY2016 Facility Total:		55.9107		0.1200	CY2016 Co-product: 244 lbs/yr. (sludge)
			CY2017 Facility Total:		3.7025		0.1800	CY2017 Co-product: 352 lbs/yr. (sludge)
			CY2018 Facility Total:		3.8420		0.0800	CY2018 Co-product: 162 lbs/yr. (sludge)
			CY2019 Facility Total:		10.1405		0.0000	CY2019 Co-product: 0.00 lbs/yr. No Hg Co-product reported for 2019.
			CY2020 Facility Total:		16.3319		0.1660	CY2020 Co-product: 332 lbs/yr. (sludge)

Source: Round Mountain Gold Corporation - Smoky Valley/Gold Hill Common Operation: FIN 0394; Class 2 AQOP AP1041-0444.02; OPTC AP1041-2806; MOPTC AP1041-2250								
System Description: Round Mountain (Smoky Valley) Carbon Reactivation Kiln (S2.015/TU4.001)								
Hg	Not Reported	tpy	0.000043	lbs/hr	0.3076	7,154	0.0000	Carbon Kiln emissions factor derived from May 2020 M29 stack test.
System Description: Round Mountain (Smoky Valley) Electric Induction Furnace (S2.014/TU4.005)								
Hg	Not Reported	tpy	0.000015	lbs/hr	0.0066	437	0.0000	Furnace emissions factor derived from May 2020 M29 stack test.
System Description: Gold Hill Carbon Reactivation Kiln (S2.053/TU4.006)								
Hg	Not Reported	tpy	0.000024	lbs/hr	0.0986	4,108	0.0000	Carbon Kiln emissions factor derived from May 2020 M29 stack test.
System Description: Gold Hill Carbon Stripping Circuit - Electro-winning Circuit & Pregnant/Barren Strip Solution Tanks (S2.054 - S2.056/TU4.007 - TU4.009)								
Hg	Not Reported	gals/yr	0.000006	lbs/hr	0.0508	8,465	0.0000	Carbon Strip Circuit emissions factor derived from May 2020 M29 stack test.
System Description: Gold Hill Mercury Retort (S2.057/TU4.010)								
Hg	18.11	tpy	7.5E-08	lbs/hr	0.0003	3,727	0.0000	Retort emissions factor derived from May 2020 M29 stack test.
System Description: Gold Hill Smelting Furnace (S2.162/TU4.011)								
Hg	Not Reported	tpy	0.0015	lbs/hr	0.4890	326	0.0000	Furnace emissions factor derived from May 2020 M29 stack test.
System Description: Smoky Valley ADR Carbon Stripping Circuit - Electro-winning Circuit, Pregnant (1) & Barren (2) Strip Solution Tanks (S2.016 - S2.018 & S2.052/TU4.002 - TU4.004 & TU4.012)								
Hg	Not Reported	gals/yr	0.0001	lbs/hr	0.8405	8,405	0.0000	Carbon Strip Circuit emissions factor derived from May 2020 M29 stack test.
System Description: Mercury Co-Product								
Hg					0.0000		2.3581	Facility-wide mercury co-product collected, no breakout by system provided.
System Description: RMG Refinery Electro-winning Vent & Ovens, Assay Laboratory Ovens (S2.143/DM3.001 - DM3.042)								
Hg					1.7440		0.0000	Potential to emit (PTE), not actual - see De Minimis Designation Tech. Rev.
			CY2006 Facility Total:		0.0000		0.0085	CY2006 Co-product: 17 lbs/yr.
			CY2007 Facility Total:		59.6652		0.0000	CY2007 Co-product: 0.00 lbs/yr.
			CY2008 Facility Total:		8.3173		0.0000	CY2008 Co-product: 0.00 lbs/yr.
			CY2009 Facility Total:		4.5878		0.0000	CY2009 Co-product: 0.00 lbs/yr.
			CY2010 Facility Total:		4.4525		0.0000	CY2010 Co-product: 0.00 lbs/yr.
			CY2011 Facility Total:		6.6374		0.0000	CY2011 Co-product: 0.00 lbs/yr.
			CY2012 Facility Total:		4.1960		0.0000	CY2012 Co-product: 0.00 lbs/yr.
			CY2013 Facility Total:		4.7056		0.3150	CY2013 Co-product: 629.90 lbs/yr.
			CY2014 Facility Total:		9.0652		0.3450	CY2014 Co-product: 690 lbs/yr.
			CY2015 Facility Total:		5.4557		0.2940	CY2015 Co-product: 588 lbs/yr.
			CY2016 Facility Total:		6.8767		0.6860	CY2016 Co-product: 1,372 lbs/yr.
			CY2017 Facility Total:		5.8494		0.3900	CY2017 Co-product: 780 lbs/yr.
			CY2018 Facility Total:		8.7114		2.1050	CY2018 Co-product: 4,210 lbs/yr.
			CY2019 Facility Total:		19.6374		1.7571	CY2019 Co-product: 3,515 lbs/yr.
			CY2020 Facility Total:		3.5373		2.3581	CY2020 Co-product: 4,716.20 lbs/yr.

Source: Ruby Hill Mining Company, LLC - Ruby Hill Mine (formerly Homestake Mining Company of California): FIN 0399; Class 2 AQOP AP1041-0713.01; MOPTC AP1041-2252						
System Description: Assay Laboratory (DM3.001 - DM3.010)						
Hg				0.0000		0.0000 Potential to emit (PTE) of 1.3818 lbs/yr, not actual - see De Minimis Tech. Review
			CY2006 Facility Total:	28.7825		0.5000 CY2006 Co-product: 1,000 lbs/yr.
			CY2007 Facility Total:	35.2201		0.3800 CY2007 Co-product: 760 lbs/yr.
			CY2008 Facility Total:	1.3883		0.2400 CY2008 Co-product: 480 lbs/yr.
			CY2009 Facility Total:	7.2874		0.1762 CY2009 Co-product: 352.40 lbs/yr.
			CY2010 Facility Total:	34.4158		0.0000 CY2010 Co-product: 0.00 lbs/yr.
			CY2011 Facility Total:	11.1401		0.0495 CY2011 Co-product: 99 lbs/yr.
			CY2012 Facility Total:	1.3818		0.0000 CY2012 Co-product: 0.00 lbs/yr.
			CY2013 Facility Total:	1.3818		0.0000 CY2013 Co-product: 0.00 lbs/yr.
			CY2014 Facility Total:	1.3818		0.0000 CY2014 Co-product: 0.00 lbs/yr.
			CY2015 Facility Total:	1.3818		0.0000 CY2015 Co-product: 0.00 lbs/yr.
			CY2016 Facility Total:	1.3818		0.0000 CY2016 Co-product: 0.00 lbs/yr.
			CY2017 Facility Total:	1.3818		0.0000 CY2017 Co-product: 0.00 lbs/yr.
			CY2018 Facility Total:	1.3818		0.0000 CY2018 Co-product: 0.00 lbs/yr.
			CY2019 Facility Total:	1.3818		0.0000 CY2019 Co-product: 0.00 lbs/yr.
			CY2020 Facility Total:	0.0000		0.0000 CY2020 Co-product: 0.00 lbs/yr. Source did not operate in 2020.

Source: Marigold Mining Company - Marigold Mine: FIN 0387; Class 2 AQOP AP1041-3666; MOPTC AP1041-2254									
System Description: Carbon Regeneration Kiln (TU4.001/S2.006)									
Hg	953.83	tpy	0.0000037	lbs/hr	0.0138	3,741	0.0000	Carbon Kiln emissions factor derived from August 2020 M29 stack test.	
System Description: Mercury Retort (TU4.002/S2.007A)									
Hg	10.30	tpy	0.0000059	lbs/hr	0.0089	1,516	0.0000	Retort emissions factor derived from average of August 2020 M29 stack tests.	
System Description: Tilting Crucible Furnace (TU4.003/S2.007B)									
Hg	2.41	tpy	0.0000084	lbs/hr	0.0272	324	0.0000	Furnace emissions factor derived from average of August 2020 M29 stack tests.	
System Description: Electro-winning Circuit (TU4.004/S2.007C)									
Hg	21,721.90	1000gal/yr	0.0000073	lbs/hr				Electro-winning Circuit emissions factor derived from August 2020 M29 stack test of all passive units (fluids systems). The Pregnant and Barren Strip Solution Tanks are vented to a common stack with the Electro-winning Circuit, Mercury Retort and Crucible Furnace. Normally the Retort result is used as a surrogate, but for 2020 the passive units were tested separately and have their own result.	
System Description: Pregnant Strip Solution Tank (TU4.005/S2.007D)									
Hg	21,721.90	1000gal/yr		lbs/hr					
System Description: Barren Strip Solution Tank (TU4.006/S2.007E)									
Hg	21,721.90	1000gal/yr		lbs/hr	0.0491	6,728	0.0000		
System Description: Mercury Co-Product									
Hg					0.0000		0.0000	Elemental mercury collected disposed of as hazardous waste, not co-product.	
System Description: Assay Laboratory (DM3.001 - DM3.021)									
Hg					2.1072		0.0000	Potential to emit (PTE), not actual - see De Minimis Designation Tech. Rev.	
			CY2006 Facility Total:		908.0610		0.1675	CY2006 Co-product: 335 lbs/yr.	
			CY2007 Facility Total:		5.2255		0.2450	CY2007 Co-product: 490 lbs/yr.	
			CY2008 Facility Total:		10.4883		0.5690	CY2008 Co-product: 1,138 lbs/yr.	
			CY2009 Facility Total:		4.4540		0.8160	CY2009 Co-product: 1,632 lbs/yr.	
			CY2010 Facility Total:		9.3695		1.0330	CY2010 Co-product: 2,066 lbs/yr.	
			CY2011 Facility Total:		11.1707		1.0500	CY2011 Co-product: 2,100 lbs/yr.	
			CY2012 Facility Total:		2.1159		1.4600	CY2012 Co-product: 2,927 lbs/yr.	
			CY2013 Facility Total:		7.5577		0.4765	CY2013 Co-product: 953 lbs/yr.	
			CY2014 Facility Total:		3.3689		0.0000	CY2014 Co-product: 0.00 lbs/yr.	
			CY2015 Facility Total:		24.8525		0.0000	CY2015 Co-product: 0.00 lbs/yr.	
			CY2016 Facility Total:		29.7823		0.0000	CY2016 Co-product: 0.00 lbs/yr.	
			CY2017 Facility Total:		45.7881		0.0000	CY2017 Co-product: 0.00 lbs/yr.	
			CY2018 Facility Total:		2.3697		0.4900	CY2018 Co-product: 979 lbs/yr.	
			CY2019 Facility Total:		2.1723		0.0000	CY2019 Co-product: 0.00 lbs/yr. No Hg Co-product reported for 2019.	
			CY2020 Facility Total:		2.2063		0.0000	CY2020 Co-product: X.XX lbs/yr.	

Source: Borealis Mining Company: FIN 0675; Class 1 AQOP AP1041-2855; MOPTC AP1041-2228								
System Description: Deep Bed Carbon Scrubber: Carbon Regeneration Kiln (S2.003/TU4.001)								
Hg	91.51	tpy	0.0000722	lb/hr	0.0091	1,265	0.0000	Carbon Kiln emissions factor derived from August 2020 M29 stack tests.
System Description: Deep Bed Carbon Scrubber: Mercury Retort (S2.004/TU4.002)								
Hg	0.94	tpy	0.0000634	lb/hr	0.0014	222	0.0000	Retort emissions factor derived from June 2019 M29 stack test.
System Description: Deep Bed Carbon Scrubber: Smelting Furnace (2.005/TU4.003)								
Hg	Not Reported	tpy	0.0000728	lb/hr	0.0006	87	0.0000	Furnace emissions factor derived from average of August 2020 M29 stack tests.
System Description: Deep Bed Carbon Scrubber: Solutions Circuit (S2.006 - S2.008/TU4.004 - TU4.006)								
Hg	Not Reported	1000gal/yr	0.0000665	lb/hr	0.0133	2,005	0.0000	Solutions Circuit emissions factor derived from August 2020 M29 stack test.
System Description: Mercury Co-Product								
Hg					0.0000		0.0000	No facility-wide mercury co-product collected, no breakout by system provided.
			CY2006 Facility Total:		0.0000		0.0000	CY2006 Co-product: 0.00 lbs/yr.
			CY2007 Facility Total:		0.0000		0.0000	CY2007 Co-product: 0.00 lbs/yr.
			CY2008 Facility Total:		0.0000		0.0000	CY2008 Co-product: 0.00 lbs/yr.
			CY2009 Facility Total:		0.0000		0.0000	CY2009 Co-product: 0.00 lbs/yr.
			CY2010 Facility Total:		0.0000		0.0000	CY2010 Co-product: 0.00 lbs/yr.
			CY2011 Facility Total:		0.0000		0.0000	CY2011 Co-product: 0.00 lbs/yr.
			CY2012 Facility Total:		12.0456		0.0000	CY2012 Co-product: 0.00 lbs/yr.
			CY2013 Facility Total:		0.0353		0.1640	CY2013 Co-product: 327.50 lbs/yr.
			CY2014 Facility Total:		0.0372		0.3510	CY2014 Co-product: 702 lbs/yr.
			CY2015 Facility Total:		9.4184		0.0000	CY2015 Co-product: 0.00 lbs/yr.
			CY2016 Facility Total:		0.0201		0.0000	CY2016 Co-product: 0.00 lbs/yr.
			CY2017 Facility Total:		0.0022		0.0000	CY2017 Co-product: 0.00 lbs/yr.
			CY2018 Facility Total:		0.0073		0.0000	CY2018 Co-product: 0.00 lbs/yr.
			CY2019 Facility Total:		0.1263		0.0000	CY2019 Co-product: 0.00 lbs/yr. No Hg Co-product reported for 2019.
			CY2020 Facility Total:		0.0245		0.0000	CY2020 Co-product: 0.00 lbs/yr. No Hg Co-product reported for 2020.

Source: Nevada Gold Mines LLC (formerly Barrick Turquoise Ridge) Turquoise Ridge/Getchell Mine: FIN 0389; Class 2 AQOP AP1041-0292.01; MOPTC AP1041-2249

System Description: Assay/Met Laboratory (S2.001.1 - S2.001.4/DM3.001 - DM3.016)

Hg	tpy	lb/hr	0.3359	0.0000	0.3345 lbs/yr potential to emit (PTE) - see De Minimis Designation Tech. Rev.
	CY2006 Facility Total:	10.6752	0.0000	0.0000	CY2006 Co-product: 0.00 lbs/yr.
	CY2007 Facility Total:	4.9660	0.0000	0.0000	CY2007 Co-product: 0.00 lbs/yr.
	CY2008 Facility Total:	4.9462	0.0000	0.0000	CY2008 Co-product: 0.00 lbs/yr.
	CY2009 Facility Total:	4.9462	0.0000	0.0000	CY2009 Co-product: 0.00 lbs/yr.
	CY2010 Facility Total:	4.9462	0.0000	0.0000	CY2010 Co-product: 0.00 lbs/yr.
	CY2011 Facility Total:	4.9462	0.0000	0.0000	CY2011 Co-product: 0.00 lbs/yr.
	CY2012 Facility Total:	4.9462	0.0000	0.0000	CY2012 Co-product: 0.00 lbs/yr.
	CY2013 Facility Total:	4.9462	0.0000	0.0000	CY2013 Co-product: 0.00 lbs/yr.
	CY2014 Facility Total:	4.7375	0.0000	0.0000	CY2014 Co-product: 0.00 lbs/yr.
	CY2015 Facility Total:	4.6574	0.0000	0.0000	CY2015 Co-product: 0.00 lbs/yr.
	CY2016 Facility Total:	4.6574	0.0000	0.0000	CY2016 Co-product: 0.00 lbs/yr.
	CY2017 Facility Total:	6.2634	0.0000	0.0000	CY2017 Co-product: 0.00 lbs/yr. Stack testing revealed exceedance of DM cap.
	CY2018 Facility Total:	0.3345	0.0000	0.0000	CY2018 Co-product: 0.00 lbs/yr. Source revised DM Desig. after 2017 testing.
	CY2019 Facility Total:	0.3345	0.0000	0.0000	CY2019 Co-product: 0.00 lbs/yr.
	CY2020 Facility Total:	0.3359	0.0000	0.0000	CY2020 Co-product: 0.00 lbs/yr.

Source: GRP Pan, LLC (formerly Midway Gold US, Inc.): FIN 1497; Class 1 AQOP AP1041-3674; Class 2 AQOP AP1041-3831; MOPTC AP1041-3302								
System Description: Carbon Kiln (S2.006/TU4.001)								
Hg	Not Reported	tpy	0.00081	lbs/hr	5.1234	6,325	0.0000	Carbon Kiln EF derived from avg. of 11/2020 & 2/2021 M29 stack tests.
System Description: Mercury Retort (S2.008/TU4.002)								
Hg	3.08	tpy	0.0000036	lbs/hr	0.0030	834	0.0000	Retort emissions factor derived from November 2020 M29 stack test.
System Description: Melt Furnace (S2.010/TU4.003)								
Hg	Not Reported	tpy	0.00033	lbs/hr	0.1008	306	0.0000	Furnace EF derived from avg. of 11/2020 & 2/2021 M29 stack tests.
System Description: Carbon Stripping/Electro-winning Cells & Barren Tanks (S2.011/TU4.004 - TU4.006)								
Hg	Not Reported	tpy	0.00075	lbs/hr	4.1940	5,592	0.0000	Carbon Stripping Circuit EF derived from avg. of 11/2020 & 2/2021 M29 stack tests.
System Description: Mercury Co-Product								
Hg					0.0000		0.5480	Facility-wide mercury co-product collected, no breakout by system provided.
System Description: Assay Laboratory (S2.011/DM3.001 - DM3.008)								
Hg					2.4700		0.0000	Potential to emit (PTE), not actual - see De Minimis Designation Tech. Rev.
			CY2013 Facility Total:		0.0000		0.0000	CY2013 Co-product: 0.00 lbs/yr.
			CY2014 Facility Total:		0.0000		0.0000	CY2014 Co-product: 0.00 lbs/yr.
			CY2015 Facility Total:		2.5131		0.3200	CY2015 Co-product: 637.32 lbs/yr.
			CY2016 Facility Total:		2.4911		0.4900	CY2016 Co-product: 970.07 lbs/yr.
			CY2017 Facility Total:		61.3590		0.4300	CY2017 Co-product: 869.90 lbs/yr.
			CY2018 Facility Total:		10.9418		0.0000	CY2018 Co-product: 0.00 lbs/yr.
			CY2019 Facility Total:		2.8751		0.0000	CY2019 Co-product: 0.00 lbs/yr. No Hg Co-product reported for 2019.
			CY2020 Facility Total:		11.8912		0.5480	CY2020 Co-product: 1,096 lbs/yr.

Source: Gold Acquisition Corp. - Relief Canyon Mine: FIN 0904; Class 2 AQOP AP1041-2441; OPTC AP1041-3652; MOPTC AP1041-3585								
System Description: Mercury Retort (S2.009B/TU4.001)								
Hg	Not Reported	tpy	0.000003	lbs/hr	0.0011	362	0.0400	Mercury Retort emissions factor derived from December 2020 M219 stack test.
System Description: Carbon Regeneration Kiln (S2.011B/TU4.002)								
Hg	Not Reported	tpy	0	lbs/hr	0.0000	0	0.0000	Carbon Regeneration Kiln not yet constructed in 2020.
System Description: Electro-winning Cells & Barren Tank (S2.012 - S2.015/TU4.003 - TU4.006)								
Hg	Not Reported	gal/yr	0.00000122	lbs/hr	0.0029	2,374	0.0000	EW Cell #1 & Barren Tank emissions factor derived from Dec. 2020 M29 stack test.
System Description: Melt Furnace (S2.010B/TU4.007)								
Hg	Not Reported	tpy	0.000018	lbs/hr	0.0021	115	0.0000	Melt Furnace emissions factor derived from December 2020 M29 stack test.
System Description: Assay Laboratory (S2.012 - S2.015/DM3.001 - DM3.012)								
Hg					0.3400		0.0000	Potential to emit (PTE) of 0.34 lbs/yr, not actual - see DM Tech. Review
					CY2016 Facility Total:		0.3400	CY2016 Co-product: 0.00 lbs/yr.
					CY2017 Facility Total:		0.0000	CY2017 Co-product: 0.00 lbs/yr.
					CY2018 Facility Total:		0.0000	CY2018 Co-product: 0.00 lbs/yr.
					CY2019 Facility Total:		0.0000	CY2019 Co-product: 0.00 lbs/yr.
					CY2020 Facility Total:		0.3461	CY2020 Co-product: 80.00 lbs/yr.

Source: Nevada Gold Mines LLC (formerly Newmont Mining Corporation) - Long Canyon Project: FIN 0959; Class 2 AQOP AP1041-3586; MOPTC AP1041-3833						
System Description: Atomic Adsorption Spectrometer (DM3.001)						
Hg				0.0000		0.0000 Potential to emit (PTE) of 0.00000346 lbs/yr, not actual - see DM Tech. Review
			CY2016 Facility Total:	0.0000		0.0000 CY2016 Co-product: 0.00 lbs/yr. Source did not operate in 2016.
			CY2017 Facility Total:	0.0000		0.0000 CY2017 Co-product: 0.00 lbs/yr. Source did not operate in 2017.
			CY2018 Facility Total:	0.0000		0.0000 CY2018 Co-product: 0.00 lbs/yr. Source did not operate in 2018.
			CY2019 Facility Total:	0.0000		0.0000 CY2019 Co-product: 0.00 lbs/yr. Source did not operate in 2019.
			CY2020 Facility Total:	0.0000		0.0000 CY2020 Co-product: 0.00 lbs/yr. Source did not operate in 2020.

Source: Walker Lane Minerals - Isabella Pearl Mine: FIN 2039; Class 2 AQOP AP1041-3853; OPTC AP1041-3897; MOPTC AP1041-3895								
System Description: ADR Plant - Electro-winning Cells & Pregnant/Barren Tanks (S2.006 & S2.007/TU4.001 - TU4.003)								
Hg	Not Reported	tpy	8.053E-07	lbs/hr	0.0071	8,760	0.0000	EW Cells and P/B Tanks emissions factor derived from March 2020 M29 stack test.
System Description: ADR Plant - Mercury Retort (S2.008/TU4.004)								
Hg	Not Reported	tpy	4.673E-07	lbs/hr	0.0007	1,560	0.0407	Mercury Retort emissions factor derived from March 2020 M29 stack test.
System Description: ADR Plant - Carbon Regeneration Kiln (S2.009/TU4.005)								
Hg	30.80	tpy	1.966E-06	lbs/hr	0.0006	280	0.0000	Carbon Regeneration Kiln emissions factor derived from June 2020 M29 stack test.
System Description: Melt Furnace (S2.010/TU4.006)								
Hg	Not Reported	tpy	0.00001085	lbs/hr	0.0034	312	0.0000	Melt Furnace emissions factor derived from March 2020 M29 stack test.
System Description: Assay Laboratory (S2.006 - S2.009/DM3.001 - DM3.006)								
Hg					0.6220		0.0000	Potential to emit (PTE) of 0.622 lbs/yr, not actual - see DM Tech. Review
					CY2017 Facility Total: 0.6220		0.0000	CY2017 Co-product: 0.00 lbs/yr.
					CY2018 Facility Total: 0.6220		0.0000	CY2018 Co-product: 0.00 lbs/yr.
					CY2019 Facility Total: 0.6220		0.0000	CY2019 Co-product: 0.00 lbs/yr.
					CY2020 Facility Total: 0.6337		0.0407	CY2020 Co-product: 81.40 lbs/yr.

Source: Osgood Mining Company, LLC (formerly ATNA Resources, Inc.): FIN 0218; Class 2 AQOP AP1041-3086; MOPTC AP1041-3089						
System Description: Assay Laboratory (DM3.001 - DM3.010)						
Hg				0.0000		0.0000 Potential to emit (PTE) of 2.4156 lbs/yr, not actual - see De Minimis Tech. Review
			CY2013 Facility Total:	2.4156		0.0000 CY2013 Co-product: 0.00 lbs/yr.
			CY2014 Facility Total:	2.4156		0.0000 CY2014 Co-product: 0.00 lbs/yr.
			CY2015 Facility Total:	2.4156		0.0000 CY2015 Co-product: 0.00 lbs/yr.
			CY2016 Facility Total:	0.0000		0.0000 CY2016 Co-product: 0.00 lbs/yr. Source did not operate in 2016.
			CY2017 Facility Total:	0.0000		0.0000 CY2017 Co-product: 0.00 lbs/yr. Source did not operate in 2017.
			CY2018 Facility Total:	0.0000		0.0000 CY2018 Co-product: 0.00 lbs/yr. Source did not operate in 2018.
			CY2019 Facility Total:	0.0000		0.0000 CY2019 Co-product: 0.00 lbs/yr. Source did not operate in 2019.
			CY2020 Facility Total:	0.0000		0.0000 CY2020 Co-product: 0.00 lbs/yr. Source did not operate in 2020.

Source: Tonkin Springs, LLC: FIN 0395; Class 2 AQOP AP1041-0482.03; MOPTC AP1041-2726

System Description: Assay Laboratory (DM3.001 & DM3.002)

Hg			0.0000		0.0000	De Minimis units removed from site, De Minimis Designation voided.
	CY2010 Facility Total:	4.9200		0.0000	CY2010 Co-product: 0.00 lbs/yr.	
	CY2011 Facility Total:	4.9200		0.0000	CY2011 Co-product: 0.00 lbs/yr.	
	CY2012 Facility Total:	4.9200		0.0000	CY2012 Co-product: 0.00 lbs/yr.	
	CY2013 Facility Total:	4.9200		0.0000	CY2013 Co-product: 0.00 lbs/yr.	
	CY2014 Facility Total:	4.9200		0.0000	CY2014 Co-product: 0.00 lbs/yr.	
	CY2015 Facility Total:	4.9200		0.0000	CY2015 Co-product: 0.00 lbs/yr.	
	CY2016 Facility Total:	4.9200		0.0000	CY2016 Co-product: 0.00 lbs/yr.	
	CY2017 Facility Total:	4.9200		0.0000	CY2017 Co-product: 0.00 lbs/yr.	
	CY2018 Facility Total:	4.9200		0.0000	CY2018 Co-product: 0.00 lbs/yr.	
	CY2019 Facility Total:	0.0000		0.0000	CY2019 Co-product: 0.00 lbs/yr. Source no longer subject to the NMCP.	
	CY2020 Facility Total:	0.0000		0.0000	CY2020 Co-product: 0.00 lbs/yr. Source no longer subject to the NMCP.	

Source: Mt. Hamilton, LLC: FIN 1723; OPTC AP1041-3500; MOPTC AP1041-3520								
System Description: Mercury Retort (S2.003/TU4.001)								
Hg		tpy		lbs/hr	0.0000		0.0000	Mercury Retort did not operate, not yet constructed.
System Description: ADR Plant: Carbon Kiln (S2.004B/TU4.002)								
Hg		tpy		lbs/hr	0.0000		0.0000	Carbon Regeneration Kiln did not operate, not yet constructed.
System Description: ADR Plant: Smelting Furnace (S2.005/TU4.003)								
Hg		tpy		lbs/hr	0.0000		0.0000	Smelting Furnace did not operate, not yet constructed.
System Description: ADR Plant: Electro-winning Cells and P/B Tanks (S2.006 - S2.010/TU4.004 - TU4.008)								
Hg		tpy		lbs/hr	0.0000		0.0000	EW Cells and P/B Tanks did not operate, not yet constructed.
System Description: Mercury Co-Product								
Hg					0.0000		0.0000	Facility-wide mercury co-product collected - Retort.
System Description: Assay Laboratory (S2.018 - S2.023/DM3.001 - DM3.014)								
Hg					0.0000		0.0000	Potential to emit (PTE) of 4.11 lbs/yr, not actual - see DM Technical Review.
					CY2015 Facility Total: 0.0000		0.0000	CY2015 Co-product: 0.00 lbs/yr.
					CY2016 Facility Total: 0.0000		0.0000	CY2016 Co-product: 0.00 lbs/yr.
					CY2017 Facility Total: 0.0000		0.0000	CY2017 Co-product: 0.00 lbs/yr.
					CY2018 Facility Total: 0.0000		0.0000	CY2018 Co-product: 0.00 lbs/yr.
					CY2019 Facility Total: 0.0000		0.0000	CY2019 Co-product: 0.00 lbs/yr.
					CY2020 Facility Total: 0.0000		0.0000	CY2020 Co-product: 0.00 lbs/yr.

Source: WK-Allied Hasbrouck LLC (Formerly WK Mining (USA) LTD): FIN 1915; AQOP Class 2 AP1041-3670; OPTC AP1041-3668; MOPTC AP1041-3669								
System Description: ADR Plant: Mercury Retort (S2.003/TU4.001)								
Hg		tpy		lbs/hr	0.0000		0.0000	Mercury Retort did not operate, not yet constructed.
System Description: ADR Plant: Smelting Furnace (S2.004/TU4.002)								
Hg		tpy		lbs/hr	0.0000		0.0000	Smelting Furnace did not operate, not yet constructed.
System Description: ADR Plant: Carbon Regeneration Kiln (S2.005/TU4.003)								
Hg		tpy		lbs/hr	0.0000		0.0000	Smelting Furnace did not operate, not yet constructed.
System Description: ADR Plant: Electro-winning Cells and P/B Tanks (S2.006 - S2.009/TU4.004 - TU4.007)								
Hg		tpy		lbs/hr	0.0000		0.0000	EW Cells and P/B Tanks did not operate, not yet constructed.
System Description: Mercury Co-Product								
Hg					0.0000		0.0000	Facility-wide mercury co-product collected.
System Description: De Minimis Designation (No units listed)								
Hg					0.0000		0.0000	No DM Designation currently issued.
					CY2016 Facility Total: 0.0000		0.0000	CY2016 Co-product: 0.00 lbs/yr.
					CY2017 Facility Total: 0.0000		0.0000	CY2017 Co-product: 0.00 lbs/yr.
					CY2018 Facility Total: 0.0000		0.0000	CY2018 Co-product: 0.00 lbs/yr.
					CY2019 Facility Total: 0.0000		0.0000	CY2019 Co-product: 0.00 lbs/yr.
					CY2020 Facility Total: 0.0000		0.0000	CY2020 Co-product: 0.00 lbs/yr.

Source: McEwen Mining, Inc.: FIN 2005; Class 2 AQOP AP1041-3799; OPTC AP1041-3800; MOPTC AP1041-3801								
System Description: ADR Plant: Carbon Regeneration Kiln, Electro-winning Cells, and Eluant (Pregnant)/Barren Tanks (S2.002 - S2.006/TU4.001 - TU4.005)								
Hg	Not Reported	tpy	0.0000369	lbs/hr	0.1322	3,584	0.0000	Carbon Kiln emissions factor (Kiln only) derived from October 2020 M29 stack test.
System Description: ADR Plant: Carbon Regeneration Kiln, Electro-winning Cells, and Eluant (Pregnant)/Barren Tanks (S2.002 - S2.006/TU4.001 - TU4.005)								
Hg	Not Reported	tpy	0.00000173	lbs/hr	0.0041	2,378	0.0000	Fluids Circuit emissions factor (Fluids only) derived from Oct. 2020 M29 stack test.
System Description: ADR Plant: Mercury Retort (S2.007/TU4.006)								
Hg	Not Reported	tpy	0.00000071	lbs/hr	0.0005	649	0.1808	Retort emissions factor derived from October 2020 M29 stack test.
System Description: ADR Plant: Refinery Furnace (S2.008A & S2.008B/TU4.007)								
Hg	Not Reported	tpy	0.0015	lbs/hr	0.1836	122	0.0000	Furnace emissions factor derived from October 2020 M29 stack test.
System Description: Mercury Co-Product								
Hg					0.0000		0.0000	Facility-wide mercury co-product collected (See Retort).
System Description: Assay Laboratory (S2.002 - S2.006/DM3.001 - DM3.009)								
Hg					1.9199		0.0000	Potential to emit (PTE) of 1.9199 lbs/yr, not actual - see DM Technical Review.
					CY2017 Facility Total:	0.0000	0.0000	CY2017 Co-product: 0.00 lbs/yr.
					CY2018 Facility Total:	0.0000	0.0000	CY2018 Co-product: 0.00 lbs/yr.
					CY2019 Facility Total:	3.4416	0.1605	CY2019 Co-product: 321lbs/yr.
					CY2019 Facility Total:	2.2403	0.1808	CY2020 Co-product: 361.6 lbs/yr.

Source: Comstock Processing, LLC (formerly Plum Mining Company, LLC): FIN 0404; OPTC AP1041-2761; MOPTC AP1041-2690								
System Description: Mercury Retort (S2.025/TU4.001)								
Hg	0.00	tpy	0	lbs/hr	0.0000	0	0.0000	Retort did not operate in 2019.
System Description: Refinery Furnace (S2.026 & S2.026.1/TU4.002)								
Hg	0.00	tpy	0	lbs/hr	0.0000	0	0.0000	Furnace did not operate in 2019.
System Description: Mercury Co-Product								
Hg					0.0000		0.0000	Facility-wide mercury co-product collected - Retort.
System Description: Assay Laboratory (DM3.001 - DM3.012)								
Hg					0.0309		0.0000	Potential to emit (PTE) of 0.0309 lbs/yr, not actual - see DM Technical Review.
					CY2011 Facility Total: 0.0309		0.0000	CY2011 Co-product: 0.00 lbs/yr.
					CY2012 Facility Total: 0.2755		0.0000	CY2012 Co-product: 0.00 lbs/yr.
					CY2013 Facility Total: 0.9812		0.0003	CY2013 Co-product: 0.583 lbs/yr.
					CY2014 Facility Total: 0.0708		0.0070	CY2014 Co-product: 14 lbs/yr.
					CY2015 Facility Total: 0.2257		0.0000	CY2015 Co-product: 0.00 lbs/yr.
					CY2016 Facility Total: 0.2284		0.0000	CY2016 Co-product: 0.00 lbs/yr.
					CY2017 Facility Total: 0.0309		0.0000	CY2017 Co-product: 0.00 lbs/yr.
					CY2018 Facility Total: 0.0309		0.0000	CY2018 Co-product: 0.00 lbs/yr.
					CY2019 Facility Total: 0.0309		0.0000	CY2019 Co-product: 0.00 lbs/yr.
					CY2020 Facility Total: 0.0309		0.0000	CY2020 Co-product: 0.00 lbs/yr.

Source: Mineral Ridge Gold, LLC: FIN 0398; Class 2 AQOP AP1041-2733; MOPTC AP1041-2222

System Description: Assay Laboratory (DM3.001 - DM3.011)

Hg				2.9851		0.0000	Potential to emit (PTE), not actual - see De Minimis Designation Tech. Rev.
		CY2011 Facility Total:		2.1256	OK	0.0000	CY2011 Co-product: 0.00 lbs/yr.
		CY2012 Facility Total:		2.1256		0.0000	CY2012 Co-product: 0.00 lbs/yr.
		CY2013 Facility Total:		2.9851		0.0000	CY2013 Co-product: 0.00 lbs/yr.
		CY2014 Facility Total:		2.9851		0.0000	CY2014 Co-product: 0.00 lbs/yr.
		CY2015 Facility Total:		2.9851		0.0000	CY2015 Co-product: 0.00 lbs/yr.
		CY2016 Facility Total:		2.9851		0.0000	CY2016 Co-product: 0.00 lbs/yr.
		CY2017 Facility Total:		2.9851		0.0000	CY2017 Co-product: 0.00 lbs/yr.
		CY2018 Facility Total:		2.9851		0.0000	CY2018 Co-product: 0.00 lbs/yr.
		CY2019 Facility Total:		2.9851		0.0000	CY2019 Co-product: 0.00 lbs/yr.
		CY2020 Facility Total:		2.9851		0.0000	CY2020 Co-product: 0.00 lbs/yr.

Source: Goldwedge, LLC - Goldwedge Mine (formerly Manhattan Mining Company): FIN 0373; Class 2 AQOP AP1041-1457; MOPTC AP1041-2303

System Description: Assay Laboratory & Dore Smelting Furnace (DM3.002 - DM3.007)

Hg				0.3624		0.0000	Potential to emit (PTE), not actual - see De Minimis Designation Tech. Rev.
			CY2006 Facility Total:	0.0000		0.0000	CY2006 Co-product: 0.00 lbs/yr.
			CY2007 Facility Total:	4.1040		0.0000	CY2007 Co-product: 0.00 lbs/yr.
			CY2008 Facility Total:	4.1040		0.0000	CY2008 Co-product: 0.00 lbs/yr.
			CY2009 Facility Total:	4.1040		0.0000	CY2009 Co-product: 0.00 lbs/yr.
			CY2010 Facility Total:	4.1040		0.0000	CY2010 Co-product: 0.00 lbs/yr.
			CY2011 Facility Total:	4.1040		0.0000	CY2011 Co-product: 0.00 lbs/yr.
			CY2012 Facility Total:	4.4661		0.0000	CY2012 Co-product: 0.00 lbs/yr.
			CY2013 Facility Total:	4.4661		0.0000	CY2013 Co-product: 0.00 lbs/yr.
			CY2014 Facility Total:	4.4661		0.0000	CY2014 Co-product: 0.00 lbs/yr.
			CY2015 Facility Total:	0.3624		0.0000	CY2015 Co-product: 0.00 lbs/yr.
			CY2016 Facility Total:	0.3624		0.0000	CY2016 Co-product: 0.00 lbs/yr.
			CY2017 Facility Total:	0.3624		0.0000	CY2017 Co-product: 0.00 lbs/yr.
			CY2018 Facility Total:	0.3624		0.0000	CY2018 Co-product: 0.00 lbs/yr.
			CY2019 Facility Total:	0.3624		0.0000	CY2019 Co-product: 0.00 lbs/yr.
			CY2020 Facility Total:	0.3624		0.0000	CY2020 Co-product: 0.00 lbs/yr.

Source: Nevada Gold Mines LLC (formerly Barrick Goldstrike Mines, Inc.) Carlin Complex: FIN 0005; Class 1 AQOP AP1041-0739.02; OPTC AP1041-2805; MOPTC AP1041-2221								
System Description: North Roaster Mill Circuit #1 Air Pre-Heater and Dry Grinding Process (S2.204 & S2.205.01 - S2.205.12/TU4.001)								
Hg	2,802,489.49	tpy	0.0063	lbs/hr	49.97097	7,932	0.0000	Mill Circuit #1 emissions factor derived from May 2020 M29 stack test.
System Description: South Roaster Mill Circuit #2 Air Pre-Heater and Dry Grinding Process (S2.206 & S2.207.01 - S2.207.12/TU4.002)								
Hg	3,002,855.40	tpy	0.011	lbs/hr	90.2902	8,208	0.0000	Mill Circuit #2 emissions factor derived from May 2020 M29 stack test.
System Description: Roasters #1 & #2 (S2.209.1 & S2.209.2/TU4.003 & TU4.004)								
Hg	6,289,186.80	tpy	0.036	lbs/hr	287.622	7,990	0.0000	Roaster Circuit emissions factor derived from May 2020 M29 stack test. Testing was conducted during dual Roaster operations. Annual hours operated was reported as the same for both Roasters with emissions split evenly between the two Roasters in SLEIS.
System Description: North Roaster Circuit #1 Quenching Process (S2.210/TU4.005)								
Hg	Not Reported	tpy	0.0092	lbs/hr	73.57726312	7,998	0.0000	Quench Circuit #1 emissions factor derived from July 2020 M29 stack test.
System Description: South Roaster Circuit #2 Quenching Process (S2.211/TU4.006)								
Hg	Not Reported	tpy	0.007	lbs/hr	55.8704426	7,981	0.0000	Quench Circuit #2 emissions factor derived from July 2020 M29 stack test.
System Description: Analytical Assay Laboratory (S2.051.1/TU4.007)								
Hg	51.81	tpy	0.0026	lbs/hr	22.8384	8,784	0.0000	Assay Lab emissions factor derived from August 2019 M29 stack test.
System Description: Carbon Reactivation Kiln (S2.004.1/TU4.008)								
Hg	6,123.69	tpy	0.000024	lbs/hr	0.1357	5,654	0.0000	Carbon Kiln emissions factor derived from November 2020 M29 stack test.
System Description: Pregnant & Barren Strip Solution Tanks - Circuit A (S2.004.1/TU4.009 & TU4.011)								
Hg	Not Reported	gals/yr	0.000048	lbs/hr	0.2714	5,654	0.0000	P/B Tanks A emissions ducted in-line with the Carbon Reactivation Kiln.
System Description: Pregnant & Barren Strip Solution Tanks - Circuit B (S2.004.1/TU4.010 & TU4.012)								
Hg	Not Reported	gals/yr	0.000048	lbs/hr	0.2714	5,654	0.0000	P/B Tanks B emissions ducted in-line with the Carbon Reactivation Kiln.
System Description: Autoclave #1 (S2.015/TU4.013)								
Hg		tpy		lbs/hr	0.0000			Acidic Operation Autoclave #1 did not operate in 2020.
System Description: Autoclaves #2 & 3 (S2.016 & S2.017/TU4.014 & TU4.015)								
Hg	3,537,614.86	tpy	0.0027	lbs/hr	16.6955	6,184	0.0000	Acidic Operation Autoclaves #2 & 3 emissions factor derived from June 2020 M29 stack test. Testing was conducted during dual Autoclave operations. Annual hours operated was reported as 6,184 for both Autoclaves.
System Description: Autoclaves #4 - 6 (S2.018 - S2.020/TU4.016 - TU4.018))								
Hg		tpy		lbs/hr	0.0000			Acidic Operation Annual emissions reporting documentation does not specify under which operating scenario testing was conducted, or whether dual scenario operations were undertaken. Therefore, all hours, throughput, and emissions are reported under Alkaline mode.
System Description: Autoclaves #4 - 6 (S2.018 - S2.020/TU4.016 - TU4.018)								
Hg	11,371,535.70	tpy	0.0003	lbs/hr	2.4900	8,300	0.0000	Alkaline Operation Autoclaves #4 - 6 emissions factor derived from July 2019 M29 stack test. Testing was conducted during simultaneous operations. Annual hours operated was reported as 8,300 each for all three Autoclaves. Not clear in the facility's SLEIS report whether throughput is 3,790,511.891 total or each, reported here as each.
System Description: Mercury Retort #1 (S2.009/TU4.019)								
Hg	164.06	tpy	0.0000022	lbs/hr	0.0091	4,128	0.0000	Retort #1 emissions factor derived from August 2020 M29 stack test.
System Description: Mercury Retort #2 (S2.010/TU4.020)								
Hg	164.06	tpy	0.0000015	lbs/hr	0.0071	4,714	0.0000	Retort #2 emissions factor derived from August 2020 M29 stack test.
System Description: Mercury Retort #3 (S2.011/TU4.021)								
Hg	164.06	tpy	0.0000015	lbs/hr	0.0060	4,021	0.0000	Retort #3 emissions factor derived from August 2020 M29 stack test.
System Description: Mercury Retort #4 (S2.341/TU4.025)								
Hg	164.06	tpy	0.00000072	lbs/hr	0.0008	1,067	0.0000	Retort #4 emissions factor derived from August 2020 M29 stack test.

System Description: East & West Refinery Furnaces & Electro-winning Cells combined vented through a common carbon filter and stack (S2.013 & S2.014/TU4.022 & TU4.023)									
Hg	244.00	tpy	0.0034	lbs/hr	6.4838	1,907	0.0000	Furnaces/EW Cells emissions factor derived from August 2020 M29 stack test. Total throughput could be as high as 366 tpy, hard to tell based upon SLEIS submittal. Annual hours operated was reported as the combined total for both Furnaces.	
System Description: Electro-winning Cells only (IA1.014/TU4.024)									
Hg	Not Reported	gals/yr	0.00076	lbs/hr	5.4732	7,202	0.0000	EW Cells emissions factor derived from August 2020 M29 stack test while the Furnaces were not operating. Total reported EW Cell operating hours were 7,202 hrs/yr. Unclear in reporting if this is net of combined furnace operations.	
System Description: Resin-In-Leach (RIL) Elution Circuit Regeneration Tanks (S2.333.1 - S2.333.8/TU4.026 & TU4.027)									
Hg	3.97	1000gals/yr	0	lbs/hr	0.0000	158	0.0000	RIL Elution Circuit Regeneration Tanks were operated in 2020, but were reported as "not a thermal unit". Not exactly clear on this, but the emissions were likely minimal.	
System Description: Resin-In-Leach (RIL) Electro-winning Circuit & Pregnant/Barren Tanks (S2.342.1 - S2.342.3/TU4.030 - TU4.032)									
Hg	Not Reported	gals/yr	0.000095	lbs/hr	0.3376	3,554	0.0000	RIL EW Circuit & P/B Tanks commenced operations 11/24/14. RIL EW Circuit emissions factor derived from October 2019 M29 stack test.	
System Description: Mercury Co-Product									
Hg					0.0000		143.4590	Co-product generated/collected facility-wide.	
System Description: Assay, Mill, Mill Met, Autoclave, Autoclave Met and Roaster Pumphouse Laboratories, Strip Circuit Area and Ore Fines Fee System (S2.051.1/DM3.001 - DM3.079).									
Hg					4.6866		0.0000	Potential to emit (PTE), not actual - see De Minimis Designation Tech. Rev.	
					CY2006 Facility Total:		616.7650	98.5500	CY2006 Co-product: 197,100 lbs/yr.
					CY2007 Facility Total:		708.6590	58.6300	CY2007 Co-product: 117,260 lbs/yr.
					CY2008 Facility Total:		166.0557	87.3300	CY2008 Co-product: 134,660 lbs/yr.
					CY2009 Facility Total:		369.7831	61.8730	CY2009 Co-product: 123,746 lbs/yr.
					CY2010 Facility Total:		266.9336	60.1080	CY2010 Co-product: 120,216 lbs/yr.
					CY2011 Facility Total:		630.5519	59.9200	CY2011 Co-product: 119,840 lbs/yr.
					CY2012 Facility Total:		334.9836	44.4100	CY2012 Co-product: 88,820 lbs/yr.
					CY2013 Facility Total:		386.0257	50.6700	CY2013 Co-product: 111,708 lbs/yr.
					CY2014 Facility Total:		227.3012	53.4000	CY2014 Co-product: 117,727 lbs/yr.
					CY2015 Facility Total:		273.8005	66.4800	CY2015 Co-product: 146,563 lbs/yr.
					CY2016 Facility Total:		271.8309	126.6000	CY2016 Co-product: 279,105 lbs/yr.
					CY2017 Facility Total:		177.5724	148.0100	CY2017 Co-product: 326,306 lbs/yr.
					CY2018 Facility Total:		252.7577	153.8500	CY2018 Co-product: 307,705.93 lbs/yr.
					CY2019 Facility Total:		491.3440	106.8900	CY2019 Co-product: 213,780 lbs/yr.
					CY2020 Facility Total:		617.0373	143.4590	CY2020 Co-product: 286,918 lbs/yr (reported in short tons). No calomel/ elemental breakout provided.

CY 2020 Cumulative Totals		
Process Emissions (lbs/yr)		Co-Product (tpy)
956.03		171.82

CY 2020 process emissions were solely derived using one consistent FRM testing methodology (Method 29). Testing protocols were reviewed prior to test commencement and all final report submittals were reviewed to ensure reporting accuracy.

Co-product: 343,640 lbs/yr (171.82 short tons)

CY 2019 Cumulative Totals		
Process Emissions (lbs/yr)		Co-Product (tpy)
980.62		145.16

CY 2019 process emissions were solely derived using one consistent FRM testing methodology (Method 29). Testing protocols were reviewed prior to test commencement and all final report submittals were reviewed to ensure reporting accuracy.

Co-product: 290,320 lbs/yr (145.16 short tons)

CY 2018 Cumulative Totals		
Process Emissions (lbs/yr)		Co-Product (tpy)
730.74		205.53

CY 2018 process emissions were solely derived using one consistent FRM testing methodology (Method 29). Testing protocols were reviewed prior to test commencement and all final report submittals were reviewed to ensure reporting accuracy.

Co-product: 411,060 lbs/yr (205.53 short tons)

CY 2017 Cumulative Totals		
Process Emissions (lbs/yr)		Co-Product (tpy)
707.10		186.56

CY 2017 process emissions were solely derived using one consistent FRM testing methodology (Method 29). Testing protocols were reviewed prior to test commencement and all final report submittals were reviewed to ensure reporting accuracy.

Co-product: 403,406 lbs/yr (148.01 metric tons, 38.55 short tons)

CY 2016 Cumulative Totals		
Process Emissions (lbs/yr)		Co-Product (tpy)
696.68		164.35

CY 2016 process emissions were solely derived using one consistent FRM testing methodology (Method 29). Testing protocols were reviewed prior to test commencement and all final report submittals were reviewed to ensure reporting accuracy.

Co-product: 328,700 lbs/yr

CY 2015 Cumulative Totals		
Process Emissions (lbs/yr)		Co-Product (tpy)
688.12		131.17

CY 2015 process emissions were solely derived using one consistent FRM testing methodology (Method 29). Testing protocols were reviewed prior to test commencement and all final report submittals were reviewed to ensure reporting accuracy.

Co-product: 262,340 lbs/yr

CY 2014 Cumulative Totals		
Process Emissions (lbs/yr)		Co-Product (tpy)
484.21		145.12

CY 2014 process emissions were solely derived using one consistent FRM testing methodology (Method 29). Testing protocols were reviewed prior to test commencement and all final report submittals were reviewed to ensure reporting accuracy.

Co-product: 290,240 lbs/yr

CY 2013 Cumulative Totals		
Process Emissions (lbs/yr)		Co-Product (tpy)
748.63		111.57

CY 2013 process emissions were solely derived using one consistent FRM testing methodology (Method 29). Testing protocols were reviewed prior to test commencement and all final report submittals were reviewed to ensure reporting accuracy. In some instances, 2012 test results were used due to invalidated 2013 test results.

Co-product: 223,140 lbs/yr

CY 2012 Cumulative Totals		
Process Emissions (lbs/yr)		Co-Product (tpy)
1,393.42		115.95

CY 2012 process emissions were solely derived using one consistent FRM testing methodology (Method 29). Testing protocols were reviewed prior to test commencement and all final report submittals were reviewed to ensure reporting accuracy.

Co-product: 231,900 lbs/yr

CY 2011 Cumulative Totals		
Process Emissions (lbs/yr)		Co-Product (tpy)
1,607.96		106.77

CY 2011 process emissions were solely derived using one consistent FRM testing methodology (Method 29). Testing protocols were reviewed prior to test commencement and all final report submittals were reviewed to ensure reporting accuracy.

Co-product: 213,540 lbs/yr

Note: The total value is lower than actual industry-wide emissions due to a few thermal units which were unable to test in the reporting year and the absence of 2009 test data for Barrick Goldstrike's autoclaves under alkaline operating conditions. See 2009 Report for details.



CY 2010 Cumulative Totals		
Process Emissions (lbs/yr)		Co-Product (tpy)
1,134.15		101.59

CY 2010 process emissions were solely derived using one consistent FRM testing methodology (Method 29). Testing protocols were reviewed prior to test commencement and all final report submittals were reviewed to ensure reporting accuracy.
Co-product: 203,180 lbs/yr

CY 2009 Cumulative Totals		
Process Emissions lbs/yr		Co-Product tpy
1,336.46		90.18

CY 2009 process emissions were solely derived using one consistent FRM testing methodology (Method 29). Testing protocols were reviewed prior to test commencement and all final report submittals were reviewed to ensure reporting accuracy. In general, testing went much better in 2009 than in 2008 with far fewer testing irregularities or instances where test results were invalidated.
Co-product: 180,360 lbs/yr

CY 2008 Cumulative Totals		
Process Emissions lbs/yr		Co-Product tpy
3,165.90		102.93

CY 2008 process emissions were largely derived using one consistent FRM testing methodology (Method 29). Testing protocols were reviewed prior to test commencement and all final report submittals were reviewed to ensure reporting accuracy. Some facilities had entire testing events, or in some cases just one or more runs of a test event, invalidated due to irregularities in testing protocol, poor sample handling procedures or laboratory errors. Yukon-Nevada Corporation - Jeritt Canyon Mine (formerly Queenstake Resources) did not test in 2008 due to the temporary NDEP ordered shutdown of the facility.
Co-product: 205,860 lbs/yr

CY 2007 Cumulative Totals		
Process Emissions lbs/yr		Co-Product tpy
4,764.52		97.68

CY 2007 process emissions were largely derived using one consistent FRM testing methodology (Method 29) with scattered M101A and OHM results used in lieu of M29 due to test schedule conflicts/logistics issues. Testing protocols were reviewed prior to test commencement and all final report submittals were reviewed to ensure reporting accuracy.
Co-product: 195,360 lbs/yr

CY 2006 Cumulative Totals		
Process Emissions lbs/yr		Co-Product tpy
4,468.15		133.26

CY 2006 process emissions and co-product values were accepted "as submitted" due to variability in testing methodology, emission calculation methods and/or the lack of current FRM test results.
Co-product: 266,520 lbs/yr