

Nevada Division of Environmental Protection Bureau of Air Pollution Control Calendar Year 2014 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 Units	Emissions Factor Units	HG Annual Emissions (lbs/yr)	Hours Operated	HG Co-Product (tons/yr)	Notes	
Source: Newmont Mining Corporation - Twin Creeks Mine: AQOP AP1041-0723.01; MOPTC AP1041-2218									
System Description: Juniper Mill Electric Induction Furnace (S2.001/TU4.001 - 1 of 2, only one operates at a time)									
Hg	25.78	tpy	0.000539	lbs/hr	0.2307	428	0.0000	Induction Furnace emissions factor derived from 2014 M29 stack test.	
System Description: Juniper Mill Electric Induction Furnace (S2.001.1/TU4.002 - 1 of 2, only one operates at a time)									
Hg	25.28	tpy	0.000173	lbs/hr	0.0777	449	0.0000	Induction Furnace emissions factor derived from 2014 M29 stack test.	
System Description: Juniper Mill Carbon Kiln (S2.002/TU4.003)									
Hg	4,287.75	tpy	0.00697267	lbs/hr	50.5937	7,256	0.0000	Carbon Kiln emissions factor derived from 2014 M29 stack test.	
System Description: Mercury Retort Circuit #1 (S2.004/TU4.004)									
Hg	47.28	tpy	0.00001167	lbs/hr	0.0426	3,648	0.0000	Retort #1 emissions factor derived from 2014 M29 stack test.	
System Description: Mercury Retort Circuit #2 (S2.005/TU4.005)									
Hg	39.93	tpy	0.00001467	lbs/hr	0.0466	3,174	0.0000	Retort #2 emissions factor derived from 2014 M29 stack test.	
System Description: Sage Mill Autoclave #1 (S2.023/TU4.014)									
Hg	1,910,519.00	tpy	0.00006267	lbs/hr	0.4887	7,798	0.0000	Autoclave #1 emissions factor derived from 2014 M29 stack test.	
System Description: Sage Mill Autoclave #2 (S2.024/TU4.015)									
Hg	1,952,831.00	tpy	0.00008167	lbs/hr	0.6447	7,894	0.0000	Autoclave #2 emissions factor derived from 2014 M29 stack test.	
System Description: Electro-winning Cells (TU4.011 - six cells ducted to common stack)									
Hg	42.46	MMgals/yr	0.00006233	lbs/hr	0.5460	8,760	0.0000	Electro-winning Cells emissions factor derived from 2014 M29 stack test.	
System Description: Juniper Mill Pregnant & Barren Strip Solution Tanks (TU4.006 - TU4.008)									
Hg	42.46	MMgals/yr	0.001328	lbs/hr	11.6333	8,760	0.0000	Preg./Barren Tanks emissions factor derived from 2014 M29 stack test.	
System Description: Pinon Mill Pregnant & Barren Strip Solution Tanks (TU4.012 & TU4.013)									
Hg	69.63	MMgals/yr	0.000024	lbs/hr	0.1567	6,528	0.0000	Preg./Barren Tanks emissions factor derived from 2014 M29 stack test.	
System Description: Mercury Co-Product									
Hg					0.0000		10.0105	Facility-wide mercury co-product collected, no breakout by system provided.	
System Description: Laboratory Sample Prep. Room, Fire Assay Room, Wet Lab Room, Slurry Prep. Room, LECO Room, Instrumentation Room, Met Lab Room & Autoclave Room									
Hg					3.9471		0.0000	Potential to emit (PTE), not actual - see De Minimis Designation Tech. Rev.	
					434.3715		8.9100	CY2006 Co-product: 17,820 lbs/yr.	
					929.9303		13.2160	CY2007 Co-product: 26,432 lbs/yr.	
					1,679.1864		8.8000	CY2008 Co-product: 17,600 lbs/yr.	
					425.7559		5.9080	CY2009 Co-product: 11,816 lbs/yr.	
					178.8392		5.4670	CY2010 Co-product: 10,934 lbs/yr.	
					452.1731		3.9940	CY2011 Co-product: 7,988 lbs/yr.	
					695.2002		4.6530	CY2012 Co-product: 9,308.20 lbs/yr.	
					148.5169		7.7370	CY2013 Co-product: 15,474 lbs/yr.	
					68.4077		10.0105	CY2014 Co-product: 20,021 lbs/yr.	
Source: Veris Gold USA, Inc. - Jerritt Canyon Mine (formerly Queenstake Resources USA, Inc.): AQOP AP1041-3422; MOPTC AP1041-2217									
System Description: West Roaster Process (S2.031/TU4.001)									
Hg	559,628.00	tpy	0.000731	lbs/hr	4.7106	6,444	0.0000	Roaster emissions factor derived from average of 2013 M29 stack tests.	
System Description: East Roaster Process (S2.032/TU4.002)									
Hg	550,114.00	tpy	0.000903	lbs/hr	5.6717	6,281	0.0000	Roaster emissions factor derived from average of 2013 M29 stack tests.	
System Description: Ore Dryer (S2.022/TU4.003)									
Hg	1,209,444.00	tpy	0.0000562	lbs/hr	0.2708	4,819	0.0000	Ore Dryer emissions factor derived from 2012 M29 stack test.	
System Description: Mercury Retort (S2.039.1/TU4.004)									
Hg	13.90	tpy	0.0000312	lbs/hr	0.0593	1,900	0.0000	Retort emissions factor derived from 2014 M29 stack test.	
System Description: Refining Process Induction Furnace (S2.039.2/TU4.005)									
Hg	8.34	tpy	0.00000727	lbs/hr	0.0021	283	0.0000	Furnace emissions factor derived from 2014 M29 stack test.	
System Description: Electro-winning Cells & Pregnant/Barren Strip Solution Tanks (S2.038.1 - S2.038.4)									
Hg	78,062.00	gal/yr	0.00035	lbs/hr	0.6426	1,836	0.0000	EW Cells and P/B Tanks emissions factor derived from 2014 M29 stack test.	
System Description: Mercury Co-Product									
Hg					0.0000		3.9820	Facility-wide mercury co-product collected, no breakout by system provided.	
System Description: Laboratory Units Including Large Ore Drying Ovens (5 Units) and Electro-winning Cells									
Hg					2.1363		0.0000	Potential to emit (PTE), not actual - see De Minimis Designation Tech. Rev.	
					293.9245		2.9600	CY2006 Co-product: 5,920 lbs/yr.	
					1,966.3934		1.0200	CY2007 Co-product: 2,040 lbs/yr.	
					219.9723		0.7100	CY2008 Co-product: 1,420 lbs/yr.	
					138.9704		2.1000	CY2009 Co-product: 4,200 lbs/yr.	
					34.9527		11.0380	CY2010 Co-product: 22,076 lbs/yr.	
					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.	
Source: Newmont Mining Corporation - Gold Quarry: AQOP AP1041-0793; MOPTC AP1041-2219								
System Description: Mill 6 Static Separator (Double Rotator Air Pre-Heater: S2.120/TU4.001)								
Hg	3,521,356.00	tpy	0.000393	lbs/hr	3.1075	7,907	0.0000	Static Separator emissions factor derived from 2014 M29 stack test.
System Description: CFB North and South Ore Preheaters (S2.126 & S2.129/ TU4.002 & TU4.003)								
Hg	3,731,818.00	tpy	0.001335	lbs/hr	10.7508	8,053	0.0000	Ore Preheater's emissions factor derived from 2014 M29 stack test.
System Description: CFB North and South Ore Roasters (S2.133 & S2.145/TU4.004 & TU4.005)								
Hg	3,731,818.00	tpy	0.000299	lbs/hr	2.4078	8,053	0.0000	Ore Roaster's factor derived from 2014 M29 stack test.
System Description: ROTP North Calcine Quench Circuit (S2.158 & S2.159/TU4.006 - TU4.009)								
Hg	1,906,784.00	tpy	0.001004	lbs/hr	8.0069	7,975	0.0000	North Quench Circuit emissions factor derived from 2014 M29 stack test.
System Description: ROTP South Calcine Quench Circuit (S2.160 & S2.161/TU4.010 - TU4.013)								
Hg	1,825,034.00	tpy	0.000788	lbs/hr	6.3458	8,053	0.0000	South Quench Circuit emissions factor derived from 2014 M29 stack test.
System Description: AARL Carbon Stripping Circuit (Pregnant Tanks: TU4.014 & TU4.015)								
Hg	14,316.00	tpy	0.00223	lbs/hr	18.1700	8,148	0.0000	Pergnant Strip Tanks emissions factor derived from 2014 M29 stack test.
System Description: Refinery Barren Tank & Electro-winning Cells (TU4.016 & TU4.017)								
Hg	40,740,007.00	gals/yr	0.001935	lbs/hr	15.0137	7,759	0.0000	Barren Tank/EW Cells emissions factor derived from 2014 M29 stack test.
System Description: Refinery Mercury Retort Circuit (S2.041 - S2.046/TU4.018 - TU4.023)								
Hg	0.00	tpy	0	lbs/hr	0.0000	0	0.0000	Units were decommissioned in May, 2012.
System Description: Electric Refinery Induction Furnaces (S2.047 - S2.049/TU4.024 - TU4.026)								
Hg	65.60	tpy	0.014422	lbs/hr	7.4129	514	0.0000	Induction Furnace emissions factor derived from 2014 M29 stack test.
System Description: Carbon Kiln #1 (Zadra Building) Scrubber Stack (S2.056/TU4.027)								
Hg	6,931.10	tpy	0.00572967	lbs/hr	39.7129	6,931	0.0000	Kiln Scrubber Stack emissions factor derived from 2014 M29 stack test.
System Description: Carbon Kiln #2 (AARL Building) Scrubber Stack (S2.058?TU4.028)								
Hg	6,293.20	tpy	0.00061633	lbs/hr	4.0746	6,611	0.0000	Kiln Scrubber Stack emissions factor derived from 2014 M29 stack test.
System Description: Refinery Mercury Retort Circuit (S2.225/TU4.029)								
Hg	17.90	tpy	3.8E-08	lbs/hr	0.0000	1,249	0.0000	Retort Circuit emissions factor derived from 2014 M29 stack test.
System Description: Refinery Mercury Retort Circuit (S2.226/TU4.030)								
Hg	14.10	tpy	3.09E-08	lbs/hr	0.0000	956	0.0000	Retort Circuit emissions factor derived from 2014 M29 stack test.
System Description: Refinery Mercury Retort Circuit (S2.227/TU4.031)								
Hg	22.60	tpy	5.94E-08	lbs/hr	0.0001	1,658	0.0000	Retort Circuit emissions factor derived from 2014 M29 stack test.
System Description: Mercury Co-Product								
Hg					0.0000		6.2800	Facility-wide mercury co-product collected, no breakout by system provided.
System Description: Assay Laboratory, Met Laboratory & Integrated Laboratory								
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.	
Source: Klondex Midas Operations, Inc. (formerly Newmont Midas Operations): AQOP AP1041-0766.01; MOPTC AP1041-2253								
System Description: Refinery Furnace #1 (S2.035/TU4.001)								
Hg	42.32	tpy	0.000236	lbs/hr	0.1117	474	0.0000	Furnace #1 emissions factor derived from 2014 M29 stack test.
System Description: Refinery Furnace #2 (S2.036/TU4.002)								
Hg	38.87	tpy	0.00037	lbs/hr	0.1593	431	0.0000	Furnace #2 emissions factor derived from 2014 M29 stack test.
System Description: Retort A (S2.037/TU4.003)								
Hg	70.98	tpy	0.00000372	lbs/hr	0.0090	2,432	0.0000	Retort A emissions factor derived from July 2014 M29 stack test.
System Description: Retort B (S2.038/TU4.004)								
Hg	0.00	tpy	0	lbs/hr	0.0000	0	0.0000	Retort B decommissioned in July, 2012.
System Description: Retort C (S2.052/TU4.005)								
Hg	26.40	tpy	0.0000137	lbs/hr	0.0167	1,221	0.0000	Retort C emissions factor derived from 2014 M29 stack test.
System Description: Mercury Co-Product								
Hg					0.0000		0.0030	Facility-wide mercury co-product collected, no breakout by system provided.
System Description: Assay Laboratory								
Hg				lbs/hr	2.3246		0.0000	Potential to emit (PTE), not actual - see De Minimis Designation Tech. Rev.
			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.
Source: Barrick, Bald Mountain Mine - Huntington Valley/Mooney Basin: AQOP AP1041-1362; MOPTC AP1041-2246								
System Description: Propane Fired Carbon Regeneration Kiln (S2.001/TU4.001)								
Hg	0.00	tpy		lbs/hr	0.0000	0	0.0000	Carbon Kiln decommissioned in May, 2012.
System Description: Propane Fired Mercury Retort (S2.002/TU4.002)								
Hg	0.00	tpy		lbs/hr	0.0000	0	0.0000	Retort decommissioned in May, 2012.
System Description: Propane Fired Bullion Furnace (S2.003/TU4.003)								
Hg	0.00	tpy		lbs/hr	0.0000	0	0.0000	Bullion Furnace decommissioned in May, 2012.
System Description: Electro-winning Circuit (IA1.024/TU4.004) and Barren Strip Solution Tank (TU4.005)								
Hg	0.00	gals/yr		lbs/hr	0.0000	0	0.0000	EW Circuit decommissioned in May, 2012.
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								
Hg					3.6439		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: 3,220.00 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.
Source: Rawhide Mining, LLC (formerly Kennecott Rawhide Mining Company - Denton-Rawhide Mine): AQOP AP1041-2892; OPTC AP1041-2975; MOPTC AP1041-2245								
System Description: Carbon Regeneration Kiln (S2.001/TU4.001)								
Hg	189.20	tpy	0.0000154	lbs/hr	0.0069	4,505	0.0000	Carbon Kiln emissions factor derived from 2014 M29 stack test.
System Description: Electro-winning Circuit (IA3.007/TU4.002)								
Hg	Not Reported	gals/yr	0.00000545	lbs/hr	0.0178	3,259	0.0000	Electro-winning Cells emissions factor derived from 2014 M29 stack test.
System Description: Refinery Induction Furnace (S2.004/TU4.003)								
Hg	67.70	tpy	0.0000576	lbs/hr	0.0570	989	0.0000	Refinery Furnace emissions factor derived from 2014 M29 stack test.
System Description: System 1 - Mercury Retort (System 2 - S2.002)								
Hg	36.95	tpy	0.0000183	lbs/hr	0.0965	5,272	0.0000	Retort emissions factor derived from 2014 M29 stack test.
System Description: Mercury Co-Product								
Hg					0.0000		0.0193	Facility-wide mercury co-product collected, no breakout by system provided.
System Description: Fire Assay Laboratory								
Hg					0.0142		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.
Source: Hycroft Resources & Development, Inc. - Crofoot/Lewis Project: 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	0.0000596	lbs/hr	0.4347	7,294	0.0000	Retort emissions factor derived from 2014 M29 stack test.
System Description: Smelting Furnace #1 (TU4.002)								
Hg	Not Reported	tpy	0.000195	lbs/hr	0.9169	4,702	0.0000	Furnace emissions factor derived from 2014 M29 stack test.
System Description: Mercury Retort #2 (TU4.003)								
Hg	Not Reported	tpy	0.00000152	lbs/hr	0.0108	7,082	0.0000	Retort emissions factor derived from 2014 M29 stack test.
System Description: Mercury Retort #3 (TU4.004)								
Hg	0.00	tpy	0	lbs/hr	0.0000	0	0.0000	System not yet constructed in 2014.
System Description: Mercury Retort #4 (TU4.005)								
Hg	0.00	tpy	0	lbs/hr	0.0000	0	0.0000	System not yet constructed in 2014.
System Description: Mercury Retort #5 (TU4.006)								

Hg	0.00	tpy	0	lbs/hr	0.0000	0	0.0000	System not yet constructed in 2014.
System Description: Smelting Furnace #2 (TU4.007)								
Hg	0.00	tpy	0	lbs/hr	0.0000	0	0.0000	System not yet constructed in 2014.
System Description: Smelting Furnace #3 (TU4.008)								
Hg	0.00	tpy	0	lbs/hr	0.0000	0	0.0000	System not yet constructed in 2014.
System Description: Mercury Co-Product								
Hg					0.0000		56.9100	Facility-wide mercury co-product collected, no breakout by system provided.
System Description: Assay Laboratory								
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.
Source: Waterton Global Mining Company, LLC (Esmeralda Mill: formerly Antler Peak Gold, Inc., formerly Metallic Ventures, Inc.): AQOP AP1041-3127; OPTC AP1041-2853; MOPTC AP1041-2248								
System Description: Carbon Regeneration Kiln, Solution Tanks & Electro-winning Circuit (TU4.001 - TU4.003 & TU4.006)								
Hg	0.00	tpy	0	lbs/hr	0.0000	0	0.0000	System did not operate in 2014.
System Description: Mercury Retorts, Solution Tanks & Electro-winning Circuit (TU4.002 - TU4.006)								
Hg	0.10	tpy		lbs/hr	0.0000	18	0.0000	System barely operated in 2014, shut down in January, no testing conducted.
System Description: Dore Furnace, Solution Tanks & Electro-winning Circuit (TU4.002, TU4.003, TU4.006 & TU4.007)								
Hg	0.2	tpy		lbs/hr	0.0000	20	0.0000	System barely operated in 2014, shut down in January, no testing conducted.
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								
Hg					0.0076		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:		0.2838		0.0000	CY2008 Co-product: 0.00 lbs/yr.
			CY2009 Facility Total:		0.2838		0.0000	CY2009 Co-product: 0.00 lbs/yr.
			CY2010 Facility Total:		0.0222		0.0000	CY2010 Co-product: 0.00 lbs/yr.
			CY2011 Facility Total:		0.0022		0.0000	CY2011 Co-product: 0.00 lbs/yr.
			CY2012 Facility Total:		3.7066		0.0000	CY2012 Co-product: 0.00 lbs/yr.
			CY2013 Facility Total:		0.0276		0.0000	CY2013 Co-product: 0.00 lbs/yr.
			CY2014 Facility Total:		0.0076		0.0000	CY2014 Co-product: 0.00 lbs/yr.
Source: Coeur D'Alene Mining Corporation - Coeur Rochester Mine: AQOP AP1044-0063.02; MOPTC AP1041-2242								
System Description: Refinery Furnace (TU4.001)								
Hg	193.00	tpy	0.000643	lbs/hr	0.2945	458	0.0000	Refinery Furnace emissions factor derived from 2014 M29 stack test.
System Description: Mercury Retorts (TU4.002 & TU4.003)								
Hg	303.00	tpy	0.00000377	lbs/hr	0.0188	4,984	0.0000	Retort emissions factor derived from 2014 M29 stack test.
System Description: Mercury Co-Product								
Hg					0.0000		13.2000	Facility-wide mercury co-product collected, no breakout by system provided.
System Description: Assay Laboratory								
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.
Source: Newmont Mining Corporation - Lone Tree Mine: AQOP AP1041-0059; MOPTC AP1041-2251								
System Description: Electro-winning Cells (East Stack)								
Hg	0.00	gals/yr		lbs/hr	0.0000	0	0.0000	EW Cells were decommissioned throughout 2012. Lone Tree remains in temporary closure.
System Description: Electro-winning Cells (West Stack)								
Hg	0.00	gals/yr		lbs/hr	0.0000	0	0.0000	EW Cells were decommissioned throughout 2012. Lone Tree remains in temporary closure.

System Description: Electro-winning Cells (Scavenger Stack)								
Hg	0.00	gals/yr		lbs/hr	0.0000	0	0.0000	EW Cells were decommissioned throughout 2012. Lone Tree remains in temporary closure.
System Description: Pregnant and Barren Solution Tanks								
Hg	0.00	tpy - carbon		lbs/hr	0.0000	0	0.0000	P/B Tanks were decommissioned throughout 2012. Lone Tree remains in temporary closure.
System Description: Mercury Co-Product								
Hg					0.0000		0.0000	Facility-wide mercury co-product collected, no breakout by system provided.
System Description: Sample Room, Fire Assay Room, Wet Laboratory, LECO Laboratory, Met Laboratory								
Hg					1.8788		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.
Source: Barrick Cortez, Inc. - Cortez Hills and Pipeline Projects: AQOP AP1041-2141; MOPTC AP1041-2220								
System Description: Refinery Induction Furnace #1 (S2.002/TU4.003)								
Hg	27.02	tpy	0.0000371	lbs/hr	0.0090	242	0.0000	Furn. #1 ducted in-line with Retorts, EF derived from 2014 M29 stack test.
System Description: Refinery Induction Furnace #2 (S2.003/TU4.004)								
Hg	3.86	tpy	0.00000319	lbs/hr	0.0004	115	0.0000	Furn. #2 ducted in-line with Retorts, EF derived from 2014 M29 stack test.
System Description: Electric Carbon Reactivation Kiln #1 (S2.007/TU4.005)								
Hg	32.00	tpy	0.000108	lbs/hr	0.0070	65	0.0000	Carbon Kiln #1 emissions factor derived from 1 run only, 2014 M29 stack test.
System Description: Electric Carbon Reactivation Kiln #2 (S2.008/TU4.006)								
Hg	310.00	tpy	0.000139	lbs/hr	0.0873	628	0.0000	Carbon Kiln #2 emissions factor derived from 2014 M29 stack test.
System Description: East Electro-winning Circuit (IA1.096/TU4.001) including Pregnant and Barren Strip Solution Tanks (TU4.008 & TU4.009)								
Hg	29,056,534.00	gals/yr	0.0000117	lbs/hr	0.0859	7,345	0.0000	EW Circuit & P/B Tanks emissions factor derived from 2014 M29 stack test.
System Description: West Electro-winning Circuit (IA1.097/TU4.002)								
Hg	14,604,933.00	gals/yr	0.00000952	lbs/hr	0.0680	7,142	0.0000	EW Cells emissions factor derived from 2014 M29 stack test.
System Description: Mercury Retorts (TU4.010 & TU4.011)								
Hg	31.17	tpy	0.0000371	lbs/hr	0.1054	2,840	0.0000	Retort emissions factor derived from 2014 M29 stack tests with both retorts operating. Retort #1 operated 1,600 hrs. & Retort #2 operated 1,240 hrs.
System Description: Mercury Co-Product								
Hg					0.0000		0.4900	Facility-wide mercury co-product collected, no breakout by system provided.
System Description: Assay Laboratory (Analytical Lab Building), Met Laboratory, Strip Circuit Area (Mill Building), Refinery Gold Sludge Drying Oven, Fire Assay Fusion Furnaces								
Hg					1.8530		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.
Source: Florida Canyon Mining, Inc. - Florida Canyon Mine: AQOP AP1041-0106.02; MOPTC AP1041-2256								
System Description: Mercurt Retort A (S2.003/TU4.004)								
Hg	9.17	tpy	4.99E-07	lbs/hr	0.0003	665	0.0000	Retort A emissions factor derived from 2014 M29 stack tests.
System Description: Mercurt Retort B (S2.004/TU4.005)								
Hg	Not Reported	tpy	5.29E-07	lbs/hr	0.0003	521	0.0000	Retort B emissions factor derived from 2014 M29 stack tests.
System Description: Electro-winning Cell A (TU4.002)								
Hg		tpy		lbs/hr	0.0000		0.0000	Electro-winning Cell A moved to De Minimis Designation 10/21/13.
System Description: Electro-winning Cell B (TU4.003)								
Hg		tpy		lbs/hr	0.0000		0.0000	Electro-winning Cell B moved to De Minimis Designation 10/21/13.
System Description: Carbon Regeneration Kiln (S2.007/TU4.008)								
Hg	21.48	tpy	0.000763	lbs/hr	1.1479	1,504	0.0000	Carbon Kiln emissions factor derived from 2014 M29 stack tests.
System Description: Dore Furnace (S2.005/TU4.001)								
Hg		tpy		lbs/hr	0.0000		0.0000	Dore Furnace moved to De Minimis Designation 10/21/13.
System Description: Pregnant Tank (TU4.006)								
Hg		hrs/yr		lbs/hr	0.0000		0.0000	Pregnant Tank moved to De Minimis Designation 12/17/09.

System Description: Barren Tank (TU4.007)								
Hg		hrs/yr		lbs/hr	0.0000		0.0000	Barren Tank moved to De Minimis Designation 12/17/09.
System Description: Mercury Co-Product								
Hg					0.0000		0.1250	Facility-wide mercury co-product collected, no breakout by system provided.
System Description: Assay Laboratory, Electro-winning Cells, Pregnant & Barren Tanks and Dore Furnace.								
Hg					2.9861		0.0000	Potential to emit (PTE), not actual - see De Minimis Designation Tech. Rev.
					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)
Source: Round Mountain Gold Corporation - Smoky Valley/Gold Hill Common Operation: AQOP AP1041-0444.01; MOPTC AP1041-2250								
System Description: Smoky Valley Carbon Reactivation Kiln (S2.121/TU4.001)								
Hg	1,841.00	tpy	0.00000323	lbs/hr	0.0196	6,077	0.0000	Carbon Kiln emissions factor derived from 2014 M29 stack test. The Pregnant Strip Solution Tank and both Barren Strip Solution Tanks were removed from this system and added to the ADR Carbon Stripping Circuit April 16, 2014.
System Description: Smoky Valley Electric Induction Furnace (S2.130/TU4.005)								
Hg	28.19	tpy	0.000209	lbs/hr	0.0793	379	0.0000	Furnace emissions factor derived from average of 2014 M29 stack tests.
System Description: Gold Hill Carbon Reactivation Kiln (S2.157/TU4.006)								
Hg	1,295.00	tpy	0.00000135	lbs/hr	0.0070	5,196	0.0000	Carbon Kiln emissions factor derived from average of 2014 M29 stack tests.
System Description: Gold Hill Carbon Stripping Circuit - Electro-winning Circuit & Pregnant/Barren Strip Solution Tanks (S2.158 - S2.160/TU4.007 - TU4.009)								
Hg	21,225,459.00	gals/yr	0.000639	lbs/hr	4.3541	6,814	0.0000	Carbon Strip Circuit em. factor derived from average of 2014 M29 stack tests.
System Description: Gold Hill Mercury Retort (S2.161/TU4.010)								
Hg	7.20	tpy	7.36E-07	lbs/hr	0.0012	1,685	0.0000	Retort emissions factor derived from average of 2014 M29 stack tests.
System Description: Gold Hill Smelting Furnace (S2.162/TU4.011)								
Hg	7.10	tpy	0.00000668	lbs/hr	0.0016	244	0.0000	Furnace emissions factor derived from average of 2014 M29 stack tests.
System Description: Smoky Valley ADR Carbon Stripping Circuit - Electro-winning Circuit & Pregnant/Barren (2) Strip Solution Tanks (TU4.002 - TU4.004 & TU4.012)								
Hg	21,464,338.00	gals/yr	0.000369	lbs/hr	3.1915	8,649	0.0000	Carbon Strip Circuit em. factor derived from average of 2014 M29 stack tests.
System Description: Mercury Co-Product								
Hg					0.0000		0.3450	Facility-wide mercury co-product collected, no breakout by system provided.
System Description: RMG Refinery Electro-winning Vent & Ovens, Assay Laboratory Ovens.								
Hg					1.4108		0.0000	Potential to emit (PTE), not actual - see De Minimis Designation Tech. Rev.
					CY2006 Facility Total: 57.0585		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: 690.00 lbs/yr.
Source: Homestake Mining Company of California - Ruby Hill Mine: AQOP AP1041-0713.01; MOPTC AP1041-2252								
System Description: Electric Carbon Regeneration Kiln (S2.019/TU4.001)								
Hg		tpy		lbs/hr	0.0000		0.0000	Carbon Kiln was decommissioned 04/25/11 and did not operate in 2014.
System Description: Electric Mercury Retort (S2.022/TU4.003)								
Hg		tpy		lbs/hr	0.0000		0.0000	Retort was decommissioned 04/25/11 and did not operate in 2014.
System Description: Electric Refinery Induction Furnace (S2.013/TU4.002)								
Hg		tpy		lbs/hr	0.0000		0.0000	Furnace was decommissioned 04/25/11 and did not operate in 2014.
System Description: Electro-winning Cells 1 & 2 (IA1.005/TU4.004) and Pregnant and Barren Strip Solution Tanks (TU4.005)								
Hg		gals/yr		lbs/hr	0.0000		0.0000	EW Circuit was decommissioned 04/25/11 and did not operate in 2014.
System Description: Assay Laboratory								
Hg					1.3818		0.0000	Potential to emit (PTE), not actual - see De Minimis Designation Tech. Rev.
					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.	
Source: Marigold Mining Company - Marigold Mine: AQOP AP1041-0158.02; MOPTC AP1041-2254									
System Description: Carbon Regeneration Kiln (S2.013A/TU4.001)									
Hg	560.70	tpy	0.00000339	lbs/hr	0.0076	2,238	0.0000	Carbon Kiln emissions factor derived from average of 2014 M29 stack tests.	
System Description: Mercury Retort (S2.014/TU4.002)									
Hg	9.70	tpy	0.0001095	lbs/hr	0.1368	1,249	0.0000	Retort emissions factor derived from average of 2014 M29 stack tests.	
System Description: Tilting Crucible Furnace (S2.015/TU4.003)									
Hg	6.50	tpy	0.00049	lbs/hr	0.1245	254	0.0000	Furnace emissions factor derived from average of 2014 M29 stack tests.	
System Description: Electro-winning Circuit (TU4.004)									
Hg	63,705.00	tpy	0.00012	lbs/hr				Electro-winning Cells emissions factor derived from average of 2014 M29 stack tests. Pregnant and Barren Strip Solution Tanks vented to a common stack with Electro-winning Cells, therefore, emissions factor is for all three units.	
System Description: Pregnant Strip Solution Tank (TU4.005)									
Hg	See Above	tpy	See Above	lbs/hr					
System Description: Barren Strip Solution Tank (TU4.006)									
Hg	See Above	tpy	See Above	lbs/hr	1.0512	8,760	0.0000		
System Description: Mercury Co-Product									
Hg					0.0000		0.0000	Elemental mercury collected reported as hazardous waste, not co-product.	
System Description: Assay Laboratory									
Hg					2.0489		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.	
Source: Borealis Mining Company: AQOP AP1041-2855; MOPTC AP1041-2228									
System Description: Deep Bed Carbon Scrubber: Carbon Regeneration Kiln (S2.003/TU4.001)									
Hg	335.00	tpy	0.0000103	lb/hr	0.0276	2,680	0.0000	Carbon Kiln emissions factor derived from 2014 M29 stack test.	
System Description: Deep Bed Carbon Scrubber: Mercury Retort (S2.004/TU4.002)									
Hg	4.90	tpy	0.00000509	lb/hr	0.0017	335	0.0000	Retort emissions factor derived from 2014 M29 stack test.	
System Description: Deep Bed Carbon Scrubber: Smelting Furnace (2.005/TU4.003)									
Hg	1.90	tpy	0.00000896	lb/hr	0.0005	59	0.0000	Furnace emissions factor derived from 2014 M29 stack test.	
System Description: Deep Bed Carbon Scrubber: Solutions Circuit (S2.006 - S2.008/TU4.004 - TU4.006)									
Hg	8,887.00	1000Gal/Yr	0.00000156	lb/hr	0.0074	4,727	0.0000	Solutions Circuit emissions factor derived from 2014 M29 stack test.	
System Description: Mercury Co-Product									
Hg					0.0000		0.3510	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.	
Source: Barrick Turquoise Ridge, Inc. - Getchell Mine: AQOP AP1041-0292.01; MOPTC AP1041-2249									
System Description: Assay/Met Laboratory									
Hg					4.7375		0.0000	Potential to emit (PTE), not actual - see De Minimis Designation Tech. Rev.	
			CY2006 Facility Total:	10.6752			0.0000	CY2006 Co-product: 0.00 lbs/yr.	
			CY2007 Facility Total:	4.9660			0.0000	CY2007 Co-product: 0.00 lbs/yr.	
			CY2008 Facility Total:	4.9462			0.0000	CY2008 Co-product: 0.00 lbs/yr.	
			CY2009 Facility Total:	4.9462			0.0000	CY2009 Co-product: 0.00 lbs/yr.	
			CY2010 Facility Total:	4.9462			0.0000	CY2010 Co-product: 0.00 lbs/yr.	
			CY2011 Facility Total:	4.9462			0.0000	CY2011 Co-product: 0.00 lbs/yr.	
			CY2012 Facility Total:	4.9462			0.0000	CY2012 Co-product: 0.00 lbs/yr.	
			CY2013 Facility Total:	4.9462			0.0000	CY2013 Co-product: 0.00 lbs/yr.	
			CY2014 Facility Total:	4.7375			0.0000	CY2014 Co-product: 0.00 lbs/yr.	

Source: Noble Technologies Corp.: AQOP AP1041-2634; MOPTC AP1041-2701								
System Description: Furnaces (2 Drying, 1 Smelting)								
Hg					4.0026		0.0000	Potential to emit (PTE), not actual - see De Minimis Designation Tech. Rev.
					CY2010 Facility Total:	4.0026	0.0000	CY2010 Co-product: 0.00 lbs/yr.
					CY2011 Facility Total:	4.0026	0.0000	CY2011 Co-product: 0.00 lbs/yr.
					CY2012 Facility Total:	4.0026	0.0000	CY2012 Co-product: 0.00 lbs/yr.
					CY2013 Facility Total:	4.0026	0.0000	CY2013 Co-product: 0.00 lbs/yr.
					CY2014 Facility Total:	4.0026	0.0000	CY2014 Co-product: 0.00 lbs/yr.
Source: MDW Pan, LLP (formerly Midway Gold US, Inc.): AQOP AP1041-3301; MOPTC AP1041-3302								
System Description: Carbon Kiln (S2.006/TU4.001)								
Hg	0.00	tpy	0	lbs/hr	0.0000	0	0.0000	System did not operate in 2014, not yet constructed.
System Description: Mercury Retort (S2.008/TU4.002)								
Hg	0.00	tpy	0	lbs/hr	0.0000	0	0.0000	System did not operate in 2014, not yet constructed.
System Description: Melt Furnace (S2.010/TU4.003)								
Hg	0.00	tpy	0	lbs/hr	0.0000	0	0.0000	System did not operate in 2014, not yet constructed.
System Description: Carbon Stripping/Electro-winning Cells & Barren Tanks (S2.011/TU4.004 - TU4.006)								
Hg	0.00	tpy	0	lbs/hr	0.0000	0	0.0000	System did not operate in 2014, not yet constructed.
System Description: Mercury Co-Product								
Hg					0.0000		0.0000	No mercury co-product collected in 2014, not yet constructed.
System Description: No approved De Minimis Units								
Hg					0.0000		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.
Source: ATNA Resources, Inc.: AQOP AP1041-3086; MOPTC AP1041-3089								
System Description: Assay Laboratory								
Hg					2.4156		0.0000	Potential to emit (PTE), not actual - see De Minimis Designation Tech. Rev.
					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.
Source: Tonkin Springs, LLC: AQOP AP1041-0482.03; MOPTC AP1041-2726								
System Description: Assay Laboratory (2 Grieve Drying Ovens)								
Hg					4.9200		0.0000	Potential to emit (PTE), not actual - see De Minimis Designation Tech. Rev.
					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.
Source: Comstock Mining, LLC (formerly Plum Mining Company, LLC): AQOP AP1041-2761; MOPTC AP1041-2690								
System Description: Mercury Retort (S2.021/TU4.001)								
Hg	42.90	tpy	0.00000477	lbs/hr	0.0231	4.835	0.0000	Retort emissions factor derived from 2014 M29 stack test.
System Description: Refinery Furnace (S2.022/TU4.002)								
Hg	1.50	tpy	0.000337	lbs/hr	0.0169	50	0.0000	Furnace shut down early 2014. Precipitate sent to Florida Canyon for smelting.
System Description: Mercury Co-Product								
Hg					0.0000		0.0070	Facility-wide mercury co-product collected - Retort.
System Description: Assay Laboratory (12 Thermal Units)								
Hg					0.0309		0.0000	Potential to emit (PTE), not actual - see De Minimis Designation Tech. Rev.
					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.
Source: Mineral Ridge Gold, LLC: AQOP AP1041-2733; MOPTC AP1041-2222								
System Description: Assay Laboratory (9 Thermal Units)								
Hg					2.9851		0.0000	Potential to emit (PTE), not actual - see De Minimis Designation Tech. Rev.
					CY2011 Facility Total:	2.1256	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.
Source: Aurum Joint Venture, LLC: AQOP AP1041-2511; MOPTC AP1041-2638								
System Description: Assay Laboratory								
Hg					2.7982		0.0000	Potential to emit (PTE), not actual - see De Minimis Designation Tech. Rev.
					CY2009 Facility Total:	2.7962	0.0000	CY2009 Co-product: 0.00 lbs/yr.
					CY2010 Facility Total:	2.7962	0.0000	CY2010 Co-product: 0.00 lbs/yr.
					CY2011 Facility Total:	2.7982	0.0000	CY2011 Co-product: 0.00 lbs/yr.

			CY2012 Facility Total:	2.7982			0.0000	CY2012 Co-product: 0.00 lbs/yr.
			CY2013 Facility Total:	2.7982			0.0000	CY2013 Co-product: 0.00 lbs/yr.
			CY2014 Facility Total:	2.7982			0.0000	CY2014 Co-product: 0.00 lbs/yr.
Source: Goldwedge, LLC (formerly Manhattan Mining Company - Goldwedge Mine): AQOP AP1041-1457; MOPTC AP1041-2303								
System Description: Assay Laboratory & Dore Smelting Furnace								
Hg				4.4661			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:	0.0000			0.0000	CY2014 Co-product: 0.00 lbs/yr.
Source: Newmont Mining Corporation - Phoenix Mine: AQOP AP1041-0220.03; MOPTC AP1041-2247								
System Description: Electric Carbon Regeneration Kiln (S2.002/TU4.001)								
Hg	2,167.00	tpy	0.0000007	lbs/hr	0.0025	3,612	0.0000	Carbon Kiln emissions factor derived from 2014 M29 stack test.
System Description: Mercury Retort (S2.014/TU4.002)								
Hg	12.00	tpy	9.35E-07	lbs/hr	0.0011	1,226	0.0000	Retort emissions factor derived from average of 2014 M29 stack tests.
System Description: Mercury Co-Product								
Hg					0.0000		0.0000	Facility-wide mercury co-product collected - Retort.
System Description: Pregnant & Barren Tanks, Electro-winning Cells, Drying Oven and 2 AA Units. SXEW EW Cells and Metallurgical Lab DM status pending determination.								
Hg					0.5762		0.0000	Potential to emit (PTE), not actual - see De Minimis Designation Tech. Rev.
			CY2006 Facility Total:	2.3061			0.0000	CY2006 Co-product: 0.00 lbs/yr.
			CY2007 Facility Total:	0.4579			0.0000	CY2007 Co-product: 0.00 lbs/yr.
			CY2008 Facility Total:	0.8053			0.0000	CY2008 Co-product: 0.00 lbs/yr.
			CY2009 Facility Total:	1.3102			0.0000	CY2009 Co-product: 0.00 lbs/yr.
			CY2010 Facility Total:	0.3835			0.0000	CY2010 Co-product: 0.00 lbs/yr.
			CY2011 Facility Total:	0.3749			0.0000	CY2011 Co-product: 0.00 lbs/yr.
			CY2012 Facility Total:	0.3724			0.0000	CY2012 Co-product: 0.00 lbs/yr.
			CY2013 Facility Total:	0.5415			0.0370	CY2013 Co-product: 60 lbs/yr.
			CY2014 Facility Total:	0.5799			0.0000	CY2014 Co-product: 0.00 lbs/yr.
Source: Barrick Goldstrike Mines, Inc.: AQOP AP1041-0739.01; 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	2,663,688.00	tpy	0.000272	lbs/hr	2.042448	7,509	0.0000	Mill Circuit #1 emissions factor derived from 2014 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	2,709,105.00	tpy	0.000244	lbs/hr	1.9215	7,875	0.0000	Mill Circuit #2 emissions factor derived from 2014 M29 stack test.
System Description: Roasters #1 & #2 (S2.209.1 & S2.209.2/TU4.003 & TU4.004)								
Hg	5,667,061.00	tpy	0.023	lbs/hr	177.33	7,710	0.0000	Roaster Circuit emissions factor derived from average of 2014 M29 stack tests. Testing was conducted during dual Roaster operations. Annual hours operated is the average of individual Roaster operations. Roaster #1 operated 7,600 hrs/yr, Roaster #2 operated 7,820 hrs/yr.
System Description: North Roaster Circuit #1 Quenching Process (S2.210/TU4.005)								
Hg	2,939,848.00	tpy	0.00145	lbs/hr	11.02	7,600	0.0000	Quench Circuit #1 emissions factor derived from 2014 M29 stack test.
System Description: South Roaster Circuit #2 Quenching Process (S2.211/TU4.006)								
Hg	2,727,215.00	tpy	0.0023	lbs/hr	17.986	7,820	0.0000	Quench Circuit #2 emissions factor derived from 2014 M29 stack test.
System Description: Analytical Assay Laboratory (S2.051/TU4.007)								
Hg	38.00	tpy	0.000378	lbs/hr	3.3003	8,731	0.0000	Assay Lab emissions factor derived from 2014 M29 stack test.
System Description: Carbon Reactivation Kiln (S2.004.1/TU4.008)								
Hg	7,571.00	tpy	0.000221	lbs/hr	1.5627	7,071	0.0000	Carbon Kiln emissions factor derived from average of 2014 M29 stack tests.
System Description: Pregnant & Barren Strip Solution Tanks - Circuit A (TU4.009 & TU4.011)								
Hg	Not Reported	gals/yr	0.000988	lbs/hr	0.2666	2,698	0.0000	P/B Tanks A emissions factor derived from average of 2014 M29 stack tests.
System Description: Pregnant & Barren Strip Solution Tanks - Circuit B (TU4.010 & TU4.012)								
Hg	Not Reported	gals/yr	0.000161	lbs/hr	0.3307	2,054	0.0000	P/B Tanks B emissions factor derived from average of 2014 M29 stack tests.
System Description: Autoclave #1 (S2.015/TU4.013)								
Hg	0.00	tpy	0	lbs/hr	0.0000	0	0.0000	Acidic Operation Autoclave #1 did not operate in 2014.
System Description: Autoclaves #2 & 3 (S2.016 & S2.017/TU4.014 & TU4.015)								
Hg	145,622.00	tpy	0.0012	lbs/hr	1.5552	1,296	0.0000	Acidic Operation Autoclave #2 did not operate in 2014. Autoclave #3 emissions factor derived from 2014 M29 stack test.

System Description: Autoclaves #4 - 6 (S2.018 - S2.020/TU4.016 - TU4.018)						Acidic Operation		
Hg		tpy		lbs/hr	0.0000		0.0000	Autoclaves #4 - 6 emissions factor derived from 2014 M29 stack test. Testing was conducted during simultaneous operations and only during alkaline operations mode. Annual hours operated is the average of individual Autoclave operations during acidic mode. Autoclave #4 operated X hrs/yr; #5 operated X hrs/yr; and #6 operated X hrs/yr.
System Description: Autoclaves #4 - 6 (S2.018 - S2.020/TU4.016 - TU4.018)						Alkaline Operation		
Hg	1,045,712.00	tpy	0.0000207	lbs/hr	0.0680	3,283	0.0000	Autoclaves #4 - 6 emissions factor derived from 2014 M29 stack test. Testing was conducted during simultaneous operations and only during alkaline operations mode. Annual hours operated is the average of individual Autoclave operations during alkaline mode. Autoclave #4 operated X hrs/yr; #5 operated X hrs/yr; and #6 operated X hrs/yr.
System Description: Mercury Retort #1 (S2.009/TU4.019)								
Hg	28.00	tpy	0.00000061	lbs/hr	0.0010	1,684	0.0000	Retort #1 emissions factor derived from 2014 M29 stack test.
System Description: Mercury Retort #2 (S2.010/TU4.020)								
Hg	23.00	tpy	0.00000033	lbs/hr	0.0005	1,536	0.0000	Retort#2 emissions factor derived from 2014 M29 stack test.
System Description: Mercury Retort #3 (S2.011/TU4.021)								
Hg	26.00	tpy	5.51E-07	lbs/hr	0.0009	1,597	0.0000	Retort #3 emissions factor derived from 2014 M29 stack test.
System Description: Mercury Retort #4 (S2.341/TU4.025)								
Hg	8.00	tpy	5.51E-07	lbs/hr	0.0002	442	0.0000	Retort #4 commenced operations 10/7/14, used Retort #3 test results for 2014.
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	75.00	tpy	0.00626	lbs/hr	2.7106	433	0.0000	Furnaces's/EW Cells emissions factor derived from 2014 M29 stack test. Testing was conducted during dual Furnace and EW Cell operations. Annual hours operated is the average of individual Furnace operations. East Furnace (TU4.022) operated 431 hrs/yr; West Furnace (TU4.023) operated 434 hrs/yr.
System Description: Electro-winning Cells only (TU4.024)								
Hg	Not Reported	gals/yr	0.000351	lbs/hr	2.3931	6,818	0.0000	EW Cells emissions factor derived from 2014 M29 stack test while the Furnaces were not operating. Total EW Cell operating hours were 7,251 hrs/yr. Combined Furnace/EW Cell operating hours of 433 hrs/yr. were subtracted from total hours operated to arrive at 6,818 hours of EW Cell operations only.
System Description: Resin-In-Leach (RIL) Elution Circuit Regeneration Tanks (S2.333.1 - S2.333.8/TU4.026 - TU4.029)								
Hg	Not Reported	gals/yr	0.0000105	lbs/hr	0.0071	674	0.0000	RIL Elution Circuit Regeneration Tanks commenced operations 11/18/14. RIL Regen. Tanks emissions factor derived from March 2015 M29 stack test.
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	6.9325E-05	lbs/hr	0.0544	785	0.0000	RIL EW Circuit & P/B Tanks commenced operations 11/24/14. RIL EW Circuit emissions factor derived from average of 2015 M29 stack tests.
System Description: Mercury Co-Product								
Hg					0.0000		53.4000	Facility-wide mercury co-product collected, no breakout by system provided.
System Description: Assay, Mill, Mill Met, Autoclave, Autoclave Met and Roaster Pumphouse Laboratories, Strip Circuit Area and Ore Fines Fee System.								
Hg					4.7500		0.0000	Potential to emit (PTE), not actual - see De Minimis Designation Tech. Rev.
Throughput and hours of operations breakout for Autoclaves 4-6 in acidic versus alkaline modes not provided.			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: 101,340 lbs/yr.
			CY2014 Facility Total:		227.3012		53.4000	CY2014 Co-product: 106,800 lbs/yr. No calomel/elemental breakout provided.

CY 2014 Cumulative Totals		
Process Emissions (lbs/yr)		Co-Product (tpy)
484.21		145.12
Co-product: 290,240.00 lbs/yr		

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.

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 2010 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

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

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

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

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

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