	Nevada Division of Environmental Protection								
					Bureau	of Air Pollutio	on Control		
		Calendar Ye	ear 2012 Actu	al Production/	Emission Reporting S	preadsheet f	or Mercury Emis	ssions from the Precious Metals Mining Industry	
		Cumu	Iative Nevada	a Mercury Cor	ntrol Program (NMCP):	: Mercury Op	perating Permit	To Construct (MOPTC) Data Submittals	
Pollutant ID	Production/Heat	Production Units	Emissions	Emissions	HG Annual	Hours	HG Co-Product	Notes	
	Rate	(eg. tons/yr)	Factor	Factor Units	Emissions (lbs/yr)	Operated	(tons/yr)		
Source: Nev	vmont Mining Cor	poration - Twin C	reeks Mine: /	AQOP AP104	1-0723.01; MOPTC AI	P1041-2218			
System Desc	cription: Juniper N	Vill Electric Induct	tion Furnace (	S2.001/TU4.0	)01 - 1 of 2, only one o	perates at a	time)		
Hg	51.38	tpy	0.00002167	lbs/hr	0.0147	676	0.0000	Induction Furnace emissions factor derived from 2012 M29 stack test.	
System Desc	cription: Juniper N	Vill Electric Induct	tion Furnace (	S2.001.1/TU4	1.002 - 1 of 2, only one	operates at	a time)	•	
Hg	49.69	tpy	0.00000767	lbs/hr	0.0054	698	0.0000	Induction Furnace emissions factor derived from 2012 M29 stack test.	
System Desc	cription: Juniper N	Vill Carbon Kiln (S	S2.002/TU4.0	03)				•	
Hg	5,031.80	tpy	0.0004548	lbs/hr	3.5172	7,734	0.0200	Carbon Kiln emissions factor derived from 2012 M29 stack test.	
System Desc	cription: Mercury	Retort Circuit A (	S2.004/TU4.0	04)		•		•	
Hg	15.95	tpy	0.0000002	lbs/hr	0.0000	2,271	1.8450	Retort A emissions factor derived from 2012 M29 stack test.	
System Desc	cription: Mercury	Retort Circuit B (S	S2.005/TU4.0	05)					
Hg	25.69	tpy	0.0000023	lbs/hr	0.0007	3,225	2.7880	Retort B emissions factor derived from 2012 M29 stack test.	
System Desc	cription: Sage Mil	I Autoclave (S2.0	23/TU4.014)						
Hg	1,942,935.00	tpy	0.04994	lbs/hr	396.0242	7,930	0.0000	Autoclave #1 emissions factor derived from 2012 M29 stack test.	
System Desc	cription: Sage Mil	I Autoclave (S2.0	24/TU4.015)						
Hg	1,882,304.00	tpy	0.02993	lbs/hr	240.0685	8,021	0.0000	Autoclave #2 emissions factor derived from 2012 M29 stack test.	
System Desc	cription: Electro-v	vinning Cells (TU	4.011 - six cel	Is ducted to c	ommon stack)				
Hg	85.20	MMgals/yr	0.0007913	lbs/hr	6.9508	8,784	0.0000	Electro-winning Cells emissions factor derived from 2012 M29 stack test.	
System Desc	cription: Juniper N	Vill Pregnant & Ba	arren Strip So	lution Tanks (	TU4.008 - TU4.010)				
Hg	85.20	MMgals/yr	0.005083	lbs/hr	44.6491	8,784	0.0000	Preg./Barren Tanks emissions factor derived from 2012 M29 stack test.	
System Desc	cription: Pinon Mi	Il Pregnant & Bar	ren Strip Solu	tion Tanks (T	U4.012 & TU4.013)				
Hg	125.74	MMgals/yr	0.0000048	lbs/hr	0.0224	4,675	0.0000	Preg./Barren Tanks emissions factor derived from 2012 M29 stack test.	
System Desc	ription: Laborato	ry Sample Prep.	Room, Fire A	ssay Room, W	Vet Lab Room, Slurry I	Prep. Room,	LECO Room, Ir	nstrumentation Room, Met Lab Room & Autoclave Room	
Hg					3.9471		0.0000	Potential to emit (PTE), not actual - see De Minimis Designation Tech. Rev.	
			CY2006	Facility Total:	434.3715		8.9100	CY2006 Co-product: 17,820 lbs/yr	
			CY2007	Facility Total:	929.9303		13.2160	CY2007 Co-product: 26,432 lbs/yr.	
			CY2008	Facility Total:	1,679.1864		8.8000	CY2008 Co-product: 17,600 lbs/yr.	
			CY2009	Facility Total:	425.7559		5.9080	CY2009 Co-product: 11,816 lbs/yr.	
			CY2010	Facility Total:	178.8392		5.4670	CY2010 Co-product: 10,934 lbs/yr.	
			CY2011	Facility Total:	452.1731		3.9940	CY2011 Co-product: 7,988.00 lbs/yr.	
			CY2012 F	acility Total:	695.2002		4.6530	CY2012 Co-product: 9,308.20 lbs/yr.	
Source: Que	enstake Reource	es USA, Inc Jeri	ritt Canyon Mi	ne: AQOP AF	21041-0778; MOPTC A	AP1041-2217	7		
System Desc	cription: West Ro	aster Process (S2	2.036 & PF1.2	213/TU4.001)					
Hg	480,290.00	tpy	0.000761	lbs/hr	4.6276	6,081	0.0000	Roaster emissions factor derived from average of 2012 M29 stack tests.	
System Desc	cription: East Roa	aster Process (S2	.041 & PF1.2	14/TU4.002)					
Hg	456,214.00	tpy	0.001721	lbs/hr	10.3484	6,013	0.0000	Roaster emissions factor derived from average of 2012 M29 stack tests.	
System Desc	cription: Ore Drye	er (S2.026/TU4.00	03)						
Hg	619,989.00	tpy	0.0000562	lbs/hr	0.2882	5,129	0.0000	Ore Dryer emissions factor derived from 2012 M29 stack test.	
System Desc	cription: Mercury	Retort (S2.051/TI	J4.004)				-		
Hg	15.00	tpy	0.00000135	lbs/hr	0.0039	2,904	1.5200	Retort emissions factor derived from 2012 M29 stack test.	
System Desc	cription: Refining	Process Induction	n Furnace (S2	2.050/TU4.005	5)				
Hg	15.00	tpy	0.0106	lbs/hr	12.4550	1,175	0.0000	Furnace emissions factor derived from 2012 M29 stack test.	
System Desc	cription: Laborato	ry Units Including	Large Ore D	rying Ovens (	5 Units) and Electro-wi	inning Cells			
Hg					2.1363		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 F	acility Total:	29.8595		1.5200	CY2012 Co-product: 3,040.00 lbs/yr.	
Source: Nev	vmont Mining Cor	poration - Gold Q	uarry: AQOP	AP1041-079	3; MOPTC AP1041-22	219			
System Desc	cription: Mill 6 Sta	atic Separator (Do	buble Rotator	Air Pre-Heate	r: S2.120/TU4.001)				
Hg	3,427,926.00	tpy	0.000278	lbs/hr	2.1298	7,661	0.0000	Static Seperator emissions factor derived from 2012 M29 stack test.	
System Desc	cription: CFB Nor	th and South Ore	Preheaters (	S2.126 & S2.1	129/ TU4.002 & TU4.0	03)			
Hg	3,587,493.00	tpy	0.010435	lbs/hr	82.8539	7,940	0.0000	Ore Preheater's emissions factor derived from 2012 M29 stack test.	

Source: Nev	vmont Mining Cor	poration - Gold Q	uarry: AQOP	AP1041-079	3; MOPTC AP1041-22	19 (continue	ed)			
System Desc	cription: CFB Nor	th and South Ore	Roasters (S2	.133 & S2.14	5/TU4.004 & TU4.005)	1				
Hq	3,587,493.00	tpy	0.000411	lbs/hr	3.2633	7,940	5.4600	Ore Roaster's factor derived from 2012 M29 stack test.		
System Desc	ription: ROTP N	orth Calcine Que	nch Circuit (S2	2.158 & S2.15	59/TU4.006 - TU4.009)	,				
Ηα	1.526.187.00	tpy	0.005575	lbs/hr	43.9143	7.877	0.0000	North Quench Circuit emissions factor derived from 2012 M29 stack test.		
System Desc	cription: ROTP S	outh Calcine Que	nch Circuit (St	2.160 & S2.10	61/TU4.010 - TU4.013)	)				
Ha	2 061 306 00	tov	0.001712	lbs/hr	13 5933	7 940	0.000	South Quench Circuit emissions factor derived from 2012 M29 stack test		
System Desc	ription: AARL C:	arbon Stripping C	ircuit (Pregnar	t Tanks: TH	4 014 & TI I4 015)	1,010	0.0000			
Ha	13 593 50	tov	0.003836	lbe/br	31 /322	8 19/	0.000	Pergnant Strip Tanks emissions factor derived from 2012 M29 stack test		
Svetom Desc	rintion: Befinery	Barron Tank & E	lectro-winning		16 & TUA 017)	0,134	0.0000			
				lbc/br	21 / 21 2	7.049	0.0000	Barron Tank/EW Colls omissions factor derived from 2012 M20 stock test		
Fig	40,039,032.00	Marauru Patart C	0.004400	52 046/TU	1010 TIL4000	7,049	0.0000			
System Desc	прион. пеннегу		11Cuit (32.041	- 32.040/104	+.016 - 104.023)			Potert Circuit omissions factor derived from 2011 M20 stack test		
l la	01.00	trav	0.004004	lb a /b r	E 7100	1 1 0 0	0.0400	Helon Circuit emissions lactor derived from 2011 M29 stack test.		
⊓g Custana Daar	21.90	ipy	0.004894		0.7 102	1,168	0.8400	Units were decommissioned in May, 2012.		
System Desc	cription: Electric I	Refinery Induction	Furnaces (52	2.047 - 52.04	9/104.024 - 104.026)	0.10				
Hg	/2.20	tpy	0.004167	Ibs/nr	2.5752	618	0.0000	Induction Furnace emissions factor derived from 2012 M29 stack test.		
System Desc	cription: Carbon I	Kiln #1 (Zadra Bui	Iding) Scrubbe	er Stack (S2.0	056/104.027)	1				
Hg	6,984.00	tpy	0.001215	lbs/hr	8.7043	7,164	0.0100	Kiln Scrubber Stack emissions factor derived from 2012 M29 stack test.		
System Desc	cription: Carbon I	Kiln #2 (AARL Bui	ilding) Scrubb	er Stack (S2.	058?TU4.028)					
Hg	6,323.00	tpy	0.000637	lbs/hr	4.1679	6,543	0.0400	Kiln Scrubber Stack emissions factor derived from 2012 M29 stack test.		
System Desc	cription: Refinery	Mercury Retort C	ircuit (S2.225/	TU4.029)						
Hq	20.60	tpy	0.00000167	lbs/hr	0.0022	1,340	0.7100	Retort Circuit emissions factor derived from 2012 M29 stack test.		
System Desc	cription: Refinerv	Mercury Retort C	ircuit (S2.226/	TU4.030)						
Ηα	9.90	tpy	0.0001337	lbs/hr	0.0894	669	0.3400	Betort Circuit emissions factor derived from 2012 M29 stack test		
Svetom Desc	printion: Refinery	Mercury Retort C	ircuit (\$2,227/	TLIA 031)	0.0001	000	010100			
Ha		tov		lbs/br	0.0077	643	0.2100	Betort Circuit emissions factor derived from 2012 M29 stack test		
Svetom Desc	rintion: Assay La	horatory Met La	oratory & Inte	arated Labor	aton/	040	0.2100			
		aboratory, wei Lai		grated Labor	1 0220		0.0000	Potential to omit (PTE), not actual, see Do Minimis Designation Tools, Pou		
ng			CV2006	Eacility Total:	210 6027		2 7200	CV2006 Co product: 5 440 lbc/vr		
			CY20007	-acility Total.	510.0937		2.7200	CY2006 C0-product: 5,440 Ibs/yi.		
			CY2007 I	-acility Total:	304.4204	-	6.1600	CY2007 Co-product: 12,320 lbs/yr.		
			CY2000 I	-acility Total.	422.4137	-	5.2000	CY2000 Co-product. 10,340 lbs/yr.		
			0120091	-acility Total.	280.6857		5.3900			
			CY20101	-acility Total:	397.1321	-	5.7000	CY2010 Co-product: 11,400 lbs/yr.		
			CY2011	-acility I otal:	222.6075	_	3.8500	CY2011 Co-product: 7.700.00 lbs/yr.		
			CY2012 F	acility lotal:	231.8539		7.6100	CY2012 Co-product: 15,220.00 lbs/yr.		
Source: Nev	Source: Newmont Mining Corporation - Midas Operations: AQOP AP1041-0766.01; MOPTC AP1041-2253									
System Desc	cription: Refinery	Furnace #1 (S2.0	035/TU4.001)		· · · · · · ·					
Hg	62.00	tpy	0.008728	lbs/hr	4.4775	513	0.0000	Furnace #1 emissions factor derived from 2012 M29 stack test.		
System Desc	cription: Refinery	Furnace #2 (S2.0	)36/TU4.002)							
Hg	89.40	tpy	0.01519	lbs/hr	10.4507	688	0.0000	Furnace #2 emissions factor derived from 2012 M29 stack test.		
System Desc	cription: Retort A	(S2.037/TU4.003	s)							
Hg	98.00	tpy	0.00000458	lbs/hr	0.0127	2,778	0.0100	Retort A emissions factor derived from 2012 M29 stack test.		
System Desc	cription: Retort B	(S2.038/TU4.004	·)							
Hg	31.59	tpy	0.00298	lbs/hr	5.0302	1,688	0.0000	Retort B emissions factor derived from 2012 M29 stack test.		
System Desc	cription: Retort C	(S2.052/TU4.005	5)							
Hg	23.89	tpy	0.0000382	lbs/hr	0.0285	745	0.0000	Retort C emissions factor derived from 2012 M29 stack test.		
System Desc	cription: Assay La	aboratory								
Hg				lbs/hr	1.8326		0.0000	Potential to emit (PTE), not actual - see De Minimis Designation Tech. Rev.		
Ť			CY2006	acility Total:	17.1801		0.0000	CY2006 Co-product: 0.00 lbs/yr.		
			CY2007	acility Total:	4.2457	-	0.0000	CY2007 Co-product: 0.00 lbs/vr.		
			CY2008	Facility Total	41 3420		0 0000	CY2008 Co-product: 0.00 lbs/vr		
			CY2009	acility Total:	6,4395	F	0.0000	CY2009 Co-product: 0.00 lbs/yr.		
			CY2010	Facility Total:	14 2333	ŀ	0.0000	CY2010 Co-product: 0.00 lbs/yr		
			CV2011	Eacility Total:	32 0815	H	0.0000	CY2011 Co-product: 19 87 lbs/yr		
			CV2012 F	acility Total	21 8322	-	0.0000	CV2012 Co-product: 10.07 lbs/yr		
Source: D-	riok Dold Mounts	in Mino Llunting	top Volley AC			1 0046	0.0100			
Source: Bar	rick, baid Wounta	Fired Cerban De	convertise Kil	0 AP 1041	-1302, MOPTC AP104	1-2240				
System Desc	Propane	Fired Carbon Re	generation Kill	ll (52.001/10	4.001) 0.0000		0.0000	Carbon Kiln decommissioned in May, 0010 and did act an ends in 0010		
Hg Sustairs Di	vintion, Dura	Lined Manager	tart (00.0007		0.0000		0.0000	Carbon Kim decommissioned in May, 2012 and did not operate in 2012.		
System Desc	ription: Propane	Fired Mercury Re	eton (52.002/1	04.002)		-		Datat de compiesiene die May 0010		
								Hetori decommissioned in May, 2012.		
Hg	0.40	tpy	0.0000395	lbs/hr	0.0002	48	0.0000	Emissions factor derived from 2011 M29 stack test.		

Source: Bar	rick, Bald Mountai	in Mine - Hunting	ton Valley: A	QOP AP1041-	-1362; MOPTC AP104	1-2246 (cor	ntinued)	
System Desc	cription: Propane	Fired Bullion Fur	nace (S2.003/	TU4.003)				
								Bullion Furnace decommissioned in May, 2012.
Hg	0.30	tpy	0.0000829	lbs/hr	0.0001	7	0.0000	Emissions factor derived from 2011 M29 stack test.
System Desc	cription: Electro-w	vinning Circuit (IA	1.024/TU4.00	4) and Barren	Strip Solution Tank (	TU4.005)		
Hg		gals/yr		lbs/hr	0.0000		0.0000	EW Circuit decommissioned in May, 2012 and did not operate in 2012.
System Desc	cription: Assay La	aboratory	•					
Ha		· ·			3.1462		0.0000	Potential to emit (PTE), not actual - see De Minimis Designation Tech. Review.
Ŭ			CY2006	Facility Total:	204.3025		2.9400	CY2006 Co-product: 5.880 lbs/vr.
			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/vr.
			CY2009	Facility Total:	5.8995		1.5600	CY2009 Co-product: 3.120 lbs/vr.
			CY2010	Facility Total:	7.8188		1.4300	CY2010 Co-product: 2.860 lbs/vr.
			CY2011	Facility Total:	3.2198		1,6100	CY2011 Co-product: 3.220.00 lbs/vr.
			CY2012 F	acility Total:	3,1464		0.0000	CY2012 Co-product: 0.00 lbs/yr.
Source: Ken	necott Rawhide N	Jining Company	Denton-Baw	hide Mine: A(	OP AP1041-1116 02		21041-2245	······································
System Desc	ription: Carbon F	Regeneration Kiln	(S2 001/TLI4	001)	301 71 1041 1110.02	, мот то ла	1041 2245	
Ha	265.20	toy	1 49E-07	lbs/br	0.0035	7 800	0.0000	Carbon Kiln emissions factor derived from 2012 M29 stack test
System Desc	ription: Electro-w	vinning Circuit (IA	3 007/TI 14 00	2)	0.0000	7,000	0.0000	כמוסטון זאוון פווואסוטו זמנוטן עפוויפע ווטוון 2012 אובט אנמגע נפאנ.
Ha	Not Reported		0.0000387	L)	0.0147	3 802	0.0000	Electro-winning Cells emissions factor derived from 2012 M29 stack test
Svetom Desc	ription: Refinery	Induction Furnac	0.000000007	1.003)	0.0147	3,002	0.0000	
Ha	67 70	tov	0.00818	lbs/br	6 9661	852	0.0000	Befinery Europee emissions factor derived from 2012 M29 stack test
System Doc	vintion: System 1	I Moroury Potor	t (System 2 9	22 002	0.3001	052	0.0000	
	27 16	tov		1bc/br	0 1 1 0 1	6 260	0.0240	Potert emissions factor derived from 2012 M20 stack test
System Doc	orintion: Eiro Acco	ipy	0.0000187	105/111	0.1191	0,309	0.0249	
		ay Laboratory	1		0.0142		0.0000	Retential to emit (RTE), not estual, and Do Minimia Designation Tech. Roy
пу			CV2006	Escility Total:	251 5029		0.0000	CV2006 Co product: 124 20 lbc/vr
			CY2007	Facility Total:	301.3920 20 EG4E		0.0021	CY2007 Co. product: FE 20 lbs/yr.
			CY2008	Facility Total:	12 0009		0.0270	CV2009 Co-product: 53.20 lbs/yr
			CY2000	Facility Total:	13.0906		0.0262	CY2000 Co-product: 52.40 lbs/yr
			012009	Facility Total:	12.0029		0.0258	
			CY2010	Facility Total:	37.0433		0.0079	CY2010 Co-product: 15.80 lbs/yr.
			CY2011	Facility Total:	78.3131		0.0230	CY2011 Co-product: 46.00 lbs/yr.
	(I D 0			acinty rotar.	7.1170		0.0249	C 12012 C0-product: 49.00 lbs/yr.
Source: Hyc	roft Resources &	Development, Inc	c Crotoot/Le	wis Project: A	AQOP AP1041-0334.0	2; MOPIC	AP1041-2255	
System Desc	cription: Mercury	Retort #1 (1U4.00	01)		0.0445	7.000		
Hg	Not Reported	tpy	0.00000147	lbs/hr	0.0115	7,833	34.0200	Refort emissions factor derived from 2012 M29 stack test.
System Desc	cription: Smelting	Furnace (104.00	)2)		0.0051			
Hg	Not Reported	tpy	0.000009	lbs/hr	0.0254	2,823	0.0000	Refinery Furnace emissions factor derived from 2012 M29 stack test.
System Desc	cription: Mercury	Retort #2 (104.00	03)	11 0	0.0000		0.0000	
Hg	0.00	tpy	0	lbs/hr	0.0000	0	0.0000	Refort did not operate in 2012.
System Desc	cription: Assay La	aboratory	1					
Hg			0)(0000		4.4415		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 I otal:	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 F	acility Total:	4.4784		34.0200	CY2012 Co-product: 68,047.00 lbs/yr.
Source: Antl	er Peak Gold, Inc	c. (formerly Metall	ic Ventures, Ir	nc).: AQOP A	P1041-1202; MOPTC	AP1041-22	48	
System Desc	cription: Carbon F	Regeneration Kiln	, Solution Tar	ks & Electro-	winning Circuit (TU4.0	01 - TU4.00	3 & TU4.006)	
Hg	0.00	tpy	0	lbs/hr	0.0000	0	0.0000	System did not operate in 2012, under construction.
System Desc	cription: Mercury	Retorts, Solution	Tanks & Elec	tro-winning Ci	rcuit (TU4.002 - TU4.0	006)		
Hg	0.00	tpy	0	lbs/hr	0.0000	0	0.0000	System did not operate in 2012, under construction.
System Desc	ription: Dore Fur	nace, Solution Ta	anks & Electro	-winning Circ	uit (TU4.002, TU4.003	, TU4.006 &	TU4.007)	
								Source failed to test in 2012, used reported flow and default permit limit to
Hg	10.87	tpy	0.003	lbs/hr	3.6990	1,233	0.0000	calculate emissions.

Source: Ant	ler Peak Gold, Inc	<ol> <li>(formerly Metall</li> </ol>	ic Ventures, Ir	nc).: AQOP A	P1041-1202; MOPTC	AP1041-224	48 (continued)	
System Desc	cription: Assay La	aboratory						
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/vr.
			CY2009 /	Facility Total:	0.2838		0.0000	CY2009 Co-product: 0.00 lbs/vr.
			CY2010	Eacility Total:	0.0222		0,0000	CY2010 Co-product: 0.00 lbs/vr
			CY2011	Facility Total:	0.0022		0.0000	CV2011 Co-product: 0.00 lbs/yr
			CV2012 F	acility Total:	3 7066		0.0000	CV2012 Co-product: 0.00 lbs/yr
Source: Cor	ur D'Alono Minin	a Corporation C	CT20121	acting Total.	B A B1044 0062 02: M		0.0000	
Source: Coe	arintion: Definery	Europeo (TLIA 00		er mine. AQC	7F AF 1044-0003.02, IV		J41-2242	
System Desc	110.00	Furnace (104.00		lbe/br	1.0705	075	0.0000	Definery Europea amigniana factor derived from 2010 M00 stack test
⊓y Sustam Deer	119.00	lpy Deterts (TU4.000	0.00366	IDS/III	1.3725	375	0.0000	Reinery Furnace emissions factor derived from 2012 M29 stack test.
System Desc		Reloris (104.002		lle e /le a	0.0000	4.010	00.4000	Detect emissions factor derived from 0010 M00 starts test
Hg	206.00	tpy	5.13E-07	lbs/nr	0.0022	4,212	20.4000	Refort emissions factor derived from 2012 M29 stack test.
System Desc	cription: Assay La	aboratory			4 0005	1		
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 F	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 F	acility Total:	3.2552		20.4000	CY2012 Co-product: 40,800.00 lbs/yr.
Source: New	wmont Minina Cor	poration - Lone T	ree Mine: AQ	OP AP1041-0	0059: MOPTC AP1041	1-2251		
System Desc	cription: Electro-v	vinning Cells (Eas	st Stack)			-		
Ηα		gals/yr		lbs/hr	0.0000		0.0000	EW Cells were decommissioned throughout 2012. Lone Tree remains in
			<u>.</u>					temporary closure, but is securing permits to recommence operations
System Desc	cription: Electro-v	vinning Cells (We	est Stack)					
Ha		gals/vr		lbs/hr	0.000	[	0.0000	EW Cells were decommissioned throughout 2012 Lone Tree remains in
		galo, yi	11	100/11	0.0000		0.0000	temporary closure, but is securing permits to recommence operations
System Desc	cription: Electro-v	vinning Cells (Sca	avenger Stack	)				
Ha		nals/vr		/ lbs/hr	0.000	1	0.0000	EW Cells were decommissioned throughout 2012 Lone Tree remains in
ng		gais/yi	<u> </u>	103/111	0.0000		0.0000	temporary closure, but is securing permits to recommence operations
System Doc	orintion: Prognam	t and Barron Solu	ition Tanks					lemporary closure, but is securing permits to recommence operations.
	Inplion. Freghan	tov oarbon		lbc/br	0.0000	1	0.0000	P/R Tanks were decommissioned throughout 2012. Long Tree remains in
ng		tpy - carbon	لــــــا	105/11	0.0000		0.0000	tomporary electric but is securing permits to recommonse operations
Sustam Dag	ariation: Comple	Boom Eiro Acco	Boom Wotl	oboratory I	COLaboratory Mat L	abaratary		lemporary closure, but is securing permits to recommence operations.
	chplion. Sample	nuulli, File Assay		Laboratory, Le	1 0700	aboratory	0.0000	Retential to emit (RTE), not actual, and Do Minimia Designation Tools Roy
ng			CV2006	Essility Total:	600 1010		0.0000	CV2006 Co product: 0.00 lbc/rr
			01/0007	Facility Total.	022.1013		0.0000	
			CY2007 F	Facility Total.	148.0964		0.0000	
			CY2008	Facility Total:	67.1251		0.0000	
			CY2009	Facility I otal:	7.2136		0.0000	GY2009 Co-product: 0.00 lbs/yr.
			CY2010	Facility I otal:	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 F	acility Total:	1.8788		0.0000	CY2012 Co-product: 0.00 lbs/yr.
Source: Bar	rick Cortez, Inc	Cortez Hills and	Pipeline Project	cts: AQOP A	P1041-2141; MOPTC	AP1041-222	20	
System Desc	cription: Refinery	Induction Furnac	e #1 (S2.002/7	TU4.003)				
Hg	39.60	tpy	0.00000318	lbs/hr	0.0009	281	0.0000	Refinery Furnace emissions factor derived from 2012 M29 stack test.
System Desc	cription: Refinery	Induction Furnac	e #2 (S2.003/	TU4.004)				
Hg	1.70	tpy	0.0000223	lbs/hr	0.0004	19	0.0000	Refinery Furnace emissions factor derived from 2012 M29 stack test.
System Desc	cription: Electric (	Carbon Reactivati	ion Kiln #1 (S2	2.007/TU4.00	5)			
Ha	447.30	tpv	0.000015	lbs/hr	0.0136	910	0.0000	Carbon Kiln #1 emissions factor derived from 2012 M29 stack test.
System Desc	cription: Electric (	Carbon Reactivati	ion Kiln #2 (S2	2.008/TU4.00	6)			
Ha	25.50	tpy	0.0000196	lbs/hr	0.0010	50	0.0000	Carbon Kiln #2 emissions factor derived from 2012 M29 stack test.
System Desc	cription: East Ele	ctro-winning Cells	s (IA1 096/TI I/	1 001)				
Ha	Not Reported		0.0000611	lbs/br	0 5352	8 760	0.0000	EW Cells emissions factor derived from 2012 M29 stack test
System Desc	cription: West Ele	ectro-winning Cell	IS (IA1 097/TU	4 002)	0.0002	0,700	0.0000	
Ha	Not Reported			lbs/br	0.11/18	8 760	0.0000	EW Cells emissions factor derived from 2012 M29 stack test
System Door	cription: Moreuru	Betorts (TLU 010	8. THA 011	105/11	0.1140	0,700	0.0000	
System Dest	Inplion. Mercury						[	Retart emissions factor derived from 2012 M20 stack tost with both retarts
110	40.00	trav	0.00001074	lb a /b r	0.0400	2.010	1 0100	approxima Detect #1 operated 2.094 hrs. 2. Detect #2 operated 1.026 hrs.
нg	49.00	ipy	0.00001274	ius/nr	0.0498	3,910	1.2100	$\Box$ operating. The lot $\pi$ operated 2,004 ms. a relative type ated 1,020 ms.

Source: Bar	rrick Cortez, Inc	Cortez Hills and I	Pipeline Proje	cts: AQOP A	P1041-2141; MOPTC	AP1041-222	20 (continued)	
System Des	cription: Pregnan	t and Barren Strip	Solution Tan	ks (TU4.008	& TU4.009)			
Hg	Not Reported	gals/yr	0.000188	lbs/hr	1.6469	8,760	0.0000	Preg./Barren Tanks emissions factor derived from 2012 M29 stack test.
System Des	cription: Assay La	aboratory (Analytic	cal Lab Buildir	ng), Met Labo	ratory, Strip Circuit Are	ea (Mill Build	ing), 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/vr.
			CY2009	Facility Total:	1.3905		0.0170	CY2009 Co-product: 34 lbs/vr.
			CY2010	Facility Total:	5,1862		0.0000	CY2010 Co-product: 0.00 lbs/vr.
			CY2011	Eacility Total:	5 1815		0 7200	CY2011 Co-product: 1 441 lbs/vr
			CY2012 F	acility Total:	4,2156		1,2100	CY2012 Co-product: 2,412.00 lbs/yr.
Source: Flo	rida Canvon Minir	a Inc - Florida C	anvon Mine:		11-0106 02: MOPTC A	P10/1-2256		
System Dec	cription: Mercurt	Betort (S2 003/TL			41-0100.02, MOLTOA	11041-2230	)	
	12 91		0.0000121	lbc/br	0.0016	1.216	0.6200	Potert emissions factor derived from 2012 M29 stock test
⊓y Svetom Doo	IS.01	Lpy Botort (S2 004/TL	0.00000131	IDS/III	0.0016	1,210	0.6300	Retort emissions factor derived from 2012 M29 Stack test.
System Des	Net Departed		4.005)	lbe/br	0.0000	0	0.0000	All Detert emissions repeated under THA 004. No breakeut provided
⊓y Svetem Dee	Not Reported	ipy	4.000-07	IDS/III	0.0000	0	0.0000	All Relon emissions repored under 104.004. No breakout provided.
System Des	Cription: Electro-v	Vinning Cell A (TC	J4.002)	lla a /la u	0.0000	0.700	0.0000	Electro minerico Oello emissione fester derived from 0040 M00 stack test
Hg	Not Reported		0.00038	IDS/nr	3.3288	8,760	0.0000	Electro-winning Cells emissions factor derived from 2012 M29 stack test.
System Des	cription: Electro-v	vinning Cell B (TC	J4.003)		0.4404	0.700		
Hg	Not Reported	tpy	0.0000475	lbs/hr	0.4161	8,760	0.0000	Electro-winning Cells emissions factor derived from 2012 M29 stack test.
System Des	cription: Carbon I	Regeneration Kiln	(S2.007/TU4	.008)				
Hg	Not Reported	tpy	0.000419	lbs/hr	0.7860	1,876	0.0000	Carbon Kiln emissions factor derived from 2012 M29 stack test.
System Des	cription: Dore Fui	mace (S2.005/TU	4.001)					
Hg	0.57	tpy	0.000251	lbs/hr	0.0816	325	0.0000	Dore Furnace emissions factor derived from 2012 M29 stack test.
System Des	cription: Pregnan	t Tank (TU4.006)					-	
Hg		hrs/yr		lbs/hr	0.0000		0.0000	No emissions factor available - closed circuit.
System Des	cription: Barren T	ank (TU4.007)						
Hg		hrs/yr		lbs/hr	0.0000		0.0000	No emissions factor available - closed circuit.
System Des	cription: Assay La	aboratory						
Hg					3.6307		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/vr. (1.829.00 "liquid": 709.00 sludge)
			CY2012 F	acility Total:	8.2449		0.6300	CY2012 Co-product: 1.252.00 lbs/vr. (892.00 "liquid": 360.00 sludge)
Source: Bo	und Mountain Gol	d Corporation - Si	moky Valley C	ommon Oper	ration: AOOP AP1041	-0444 01 · M	OPTC AP1041	1-2250
System Des	cription: BMG Ca	rbon Reactivation	Kiln (S2 121/	(TI 14 001)		0111.01, 10		
Ha	3 095 00	tov	0.00000413	lbs/hr	0.0362	8 760	0.0000	Carbon Kiln emissions factor derived from average of 2012 M29 stack tests
System Des	cription: BMG Pr	anant Strin Solut	tion Tank (TLk	4 002: Share	s a common stack with	S2 121/TH	4 001)	The Pregnant Strip Solution Tank and both Barren Strip Solution Tanks are
Ha	40.00	aals/min		lbs/hr		8 760	0,0000	vented to a common stack with the Carbon Kiln. Therefore, the emissions
System Doc	eription: BMC Ba	rron Strin Solution	a Tank #1 (TL	103/11	0.0000	b S2 121/TL	0.0000	factor is for all four units rupping simultaneously and omissions are
		alc/min	11 Talik #1 (10	lbc/br		9 760	0,0000	calculated using the highest hours of operations value of the four units. The
Function Doo	40.00	rran Strin Solution	a Tapk #2 /TL	105/11	0.0000	0,700	0.0000	Carbon Kiln actually operated 8 544 hours for the year with the remaining
System Des		rien Sinp Solution	11 Talik #2 (10	14.004. Share		0 700	0.0000	Unite energine 9,700 apph
⊓g Gustans Daa	40.00	gais/min			0.0000	8,760	0.0000	units operating 8,760 each.
System Des			Irnace (S2.130	J/TU4.005)	0.0000	074		
Hg	47.00	tpy	0.00131	lbs/hr	0.8829	674	0.0000	Furnace emissions factor derived from average of 2012 M29 stack tests.
System Des	cription: GH Carb	on Reactivation K	.iln (S2.157/10	J4.006)		-		
Hg	0.00	tpy		lbs/hr	0.0000	0	0.0000	Carbon Kiln is under construction, did not operate in 2012.
System Des	cription: GH Elect	ro-winning Circuit	& Pregnant/B	arren Strip S	olutionTanks (S2.158 -	S2.160/TU	4.007 - TU4.00	9)
Hg	2,688.00	gals/yr	0.00223	lbs/hr	0.1427	64	0.0000	Interim Hg emissions limit. First stack test scheduled for March, 2013.
System Des	cription: GH Merc	cury Retort (S2.16	51/TU4.010)					
Hg	0.01	tpy	0.0000101	lbs/hr	0.0002	23	0.0000	Interim Hg emissions limit. First stack test scheduled for March, 2013.
System Des	cription: GH Sme	Iting Furnace (S2	.162/TU4.011	)				
Hg	0.00	tpy	0.00307	lbs/hr	0.0061	2	0.0000	Interim Hg emissions limit. First stack test scheduled for March, 2013.

System De	bana mbantain abi	u oorporation - or	noky valley C	Johnmon Oper	alion. AQUE AF 1041	-0444.01; 100	JPTC AP1041	-2250 (continued)
	scription: RMG Re	finery Electro-winr	ning Vent & O	vens, Assay L	aboratory Ovens.			
Hg					3.1278		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/vr.
			CY2011	Facility Total:	6.6374		0.0000	CY2011 Co-product: 0.00 lbs/vr.
			CY2012 F	acility Total:	4,1960		0.0000	CY2012 Co-product: 0.00 lbs/vr.
Source: Ho	omestake Mining (	ompany of Califor	rnia - Ruby Hi	Il Mine: AOO	P AP10/1-0713 01·M		41-2252	
Svetom Do	scription: Electric	Carbon Pogonora	tion Kiln (S2 (		I AI 1041-0713.01, M		41-2232	
				lbo/br	0.0000	1	0.0000	Carbon Kiln was decommissioned 04/2E/11 and did not energia in 2012
⊓y Svetom Do	agription: Electric	lpy Moroury Potort (St		2)	0.0000		0.0000	Carbon Kiin was decommissioned 04/25/11 and did hot operate in 2012.
System De	scription: Electric	viercury Relort (5)	2.022/104.00	3) Ile e //e ii	0.0000		0.0000	Deterture decompriseigned 04/05/44 and did not encete in 0040
Hg			(00	IDS/nr	0.0000		0.0000	Refort was decommissioned 04/25/11 and did not operate in 2012.
System De	scription: Electric	Refinery Induction	Furnace (S2	.013/104.002	)	1	0.0000	
Hg		tpy		lbs/hr	0.0000		0.0000	Furnace was decommissioned 04/25/11 and did not operate in 2012.
System De	scription: Electro-v	vinning Cells 1 & 2	2 (IA1.005/TL	14.004) and P	regnant and Barren St	rip Solution 7	anks (TU4.00	5)
Hg		gals/yr		lbs/hr	0.0000		0.0000	EW Circuit was decommissioned 04/25/11 and did not operate in 2012.
System De	scription: Assay La	aboratory						
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/vr.
			CY2011	Facility Total:	11 1401		0.0495	CY2011 Co-product: 99 lbs/vr
			CV2012 F	acility Total:	1 3818		0.0000	CV2012 Co-product: 0 00 lbs/vr
Source: M	origold Mining Con	nony Marigald	Aine: AOOB			0054	0.0000	
Source. Ivia	angolu Minning Con	Pagaparation Kiln		4 001)	.02, MOF TO AF 1041-	2234		
			0.64E 07	14.001)	0.0010	2 7 2 9	0.0000	Carbon Kiln amigaiana fastar dariyad from 2012 M20 ataak taat
⊓y Svetem Dev	950.70	Lpy	2.04E-07	105/11	0.0010	3,720	0.0000	Carbon Kin emissions factor denved from 2012 M29 stack test.
System De	scription: wercury	Relori (52.014/10	J4.002)	lla a /la u	0.0050	1.00.4	1 4000	Detect emissions forten derived from 0040 M00 starts test
Hg	8.30	tpy	0.0000045	IDS/III	0.0058	1,284	1 4600	Refort emissions factor derived from 2012 M29 stack test.
System De	scription: Tilting C			22				
		rucible Furnace (S	52.015/104.0	03)				
Hg	5.70	rucible Furnace (S	0.00017	03) Ibs/hr	0.0321	189	0.0000	Furnace emissions factor derived from 2012 M29 stack test.
Hg System De	5.70 scription: Electro-v	rucible Furnace (S tpy vinning Circuit (TL	0.00017 J4.004)	03) Ibs/hr	0.0321	189	0.0000	Furnace emissions factor derived from 2012 M29 stack test.
Hg System De Hg	5.70 scription: Electro-v 44,210.00	rucible Furnace (S tpy vinning Circuit (TL tpy	0.00017 J4.004) 0.0000045	03) Ibs/hr Ibs/hr	0.0321	189	0.0000	Furnace emissions factor derived from 2012 M29 stack test. Electro-winning Cells emissions factor derived from 2012 M29 stack test.
Hg System De Hg System De	5.70 scription: Electro-v 44,210.00 scription: Pregnan	rucible Furnace (S tpy vinning Circuit (TL tpy t Strip Solution Ta	0.00017 0.00017 J4.004) 0.0000045 ank (TU4.005	03) Ibs/hr Ibs/hr	0.0321	189	0.0000	Furnace emissions factor derived from 2012 M29 stack test. Electro-winning Cells emissions factor derived from 2012 M29 stack test. Pregnant and Barren Strip Solution Tanks vented to a common stack with
Hg System De Hg System De Hg	5.70 scription: Electro-v 44,210.00 scription: Pregnan	rucible Furnace (S tpy vinning Circuit (TU tpy t Strip Solution Ta tpy	22.015/104.0 0.00017 J4.004) 0.0000045 ank (TU4.005	03) Ibs/hr Ibs/hr Ibs/hr	0.0321	189	0.0000	Furnace emissions factor derived from 2012 M29 stack test. Electro-winning Cells emissions factor derived from 2012 M29 stack test. Pregnant and Barren Strip Solution Tanks vented to a common stack with Electro-winning Cells, therefore, emissions factor is for all three units.
Hg System Dea Hg System Dea Hg System Dea	5.70 scription: Electro-v 44,210.00 scription: Pregnan scription: Barren S	rucible Furnace (S tpy vinning Circuit (TL tpy t Strip Solution Ta tpy Strip Solution Tan	S2.015/104.0 0.00017 J4.004) 0.0000045 ank (TU4.005 < (TU4.006)	03) Ibs/hr Ibs/hr Ibs/hr	0.0321	189	0.0000	Furnace emissions factor derived from 2012 M29 stack test. Electro-winning Cells emissions factor derived from 2012 M29 stack test. Pregnant and Barren Strip Solution Tanks vented to a common stack with Electro-winning Cells, therefore, emissions factor is for all three units.
Hg System De: Hg System De: Hg System De: Hg	5.70 scription: Electro-v 44,210.00 scription: Pregnan scription: Barren S	rucible Furnace (S tpy vinning Circuit (TL tpy t Strip Solution Ta tpy Strip Solution Tank tpy	S2.015/104.0 0.00017 J4.004) 0.0000045 ank (TU4.005 < (TU4.006)	03) Ibs/hr Ibs/hr Ibs/hr Ibs/hr	0.0321	6,253	0.0000	Furnace emissions factor derived from 2012 M29 stack test. Electro-winning Cells emissions factor derived from 2012 M29 stack test. Pregnant and Barren Strip Solution Tanks vented to a common stack with Electro-winning Cells, therefore, emissions factor is for all three units.
Hg System De: Hg System De: Hg System De: Hg System De:	5.70 scription: Electro-v 44,210.00 scription: Pregnan scription: Barren S scription: Barren S	rucible Furnace (S tpy vinning Circuit (TU tpy t Strip Solution Ta tpy Strip Solution Tank tpy aboratory	S2.015/104.0 0.00017 J4.004) 0.0000045 ank (TU4.005 < (TU4.006)	03) Ibs/hr Ibs/hr Ibs/hr Ibs/hr	0.0321	189 6,253	0.0000	Furnace emissions factor derived from 2012 M29 stack test. Electro-winning Cells emissions factor derived from 2012 M29 stack test. Pregnant and Barren Strip Solution Tanks vented to a common stack with Electro-winning Cells, therefore, emissions factor is for all three units.
Hg System Der Hg System Der Hg System Der Hg System Der Hg	5.70 scription: Electro-v 44,210.00 scription: Pregnan scription: Barren S scription: Assay Li	rucible Furnace (S tpy vinning Circuit (TU tpy t Strip Solution Ta tpy Strip Solution Tank tpy aboratory	0.00017 0.0004) 0.0000045 ank (TU4.005 (TU4.006)	03) Ibs/hr Ibs/hr Ibs/hr Ibs/hr	0.0321	189 6,253	0.0000	Furnace emissions factor derived from 2012 M29 stack test. Electro-winning Cells emissions factor derived from 2012 M29 stack test. Pregnant and Barren Strip Solution Tanks vented to a common stack with Electro-winning Cells, therefore, emissions factor is for all three units.
Hg System Der Hg System Der Hg System Der Hg System Der Hg	5.70 scription: Electro-v 44,210.00 scription: Pregnan scription: Barren S scription: Assay Li	rucible Furnace (S tpy vinning Circuit (TL tpy t Strip Solution Ta tpy Strip Solution Tank tpy aboratory	CY2006	03) Ibs/hr Ibs/hr Ibs/hr Ibs/hr	0.0321 0.0281 2.0489 908.0610	6,253	0.0000 0.0000 0.0000 0.1675	Furnace emissions factor derived from 2012 M29 stack test. Electro-winning Cells emissions factor derived from 2012 M29 stack test. Pregnant and Barren Strip Solution Tanks vented to a common stack with Electro-winning Cells, therefore, emissions factor is for all three units.
Hg System De Hg System De Hg System De Hg	5.70 scription: Electro-v 44,210.00 scription: Pregnan scription: Barren S scription: Assay La	rucible Furnace (S tpy vinning Circuit (TL tpy t Strip Solution Ta tpy Strip Solution Tank tpy aboratory	22.015/104.0 0.00017 J4.004) 0.0000045 ank (TU4.005 (TU4.006) CY2006 CY2006	03) Ibs/hr Ibs/hr Ibs/hr Ibs/hr Facility Total: Facility Total:	0.0321 0.0281 2.0489 908.0610 5.2255	6,253	0.0000 0.0000 0.0000 0.1675 0.2450	Furnace emissions factor derived from 2012 M29 stack test.         Electro-winning Cells emissions factor derived from 2012 M29 stack test.         Pregnant and Barren Strip Solution Tanks vented to a common stack with         Electro-winning Cells, therefore, emissions factor is for all three units.         Potential to emit (PTE), not actual - see De Minimis Designation Tech. Rev.         CY2006 Co-product: 335 lbs/yr.         CY2007 Co-product: 490 lbs/yr.
Hg System De: Hg System De: Hg System De: Hg System De: Hg	5.70 scription: Electro-v 44,210.00 scription: Pregnan scription: Barren S scription: Assay Li	rucible Furnace (S tpy vinning Circuit (TL tpy t Strip Solution Ta tpy Strip Solution Tank tpy aboratory	22.015/104.0 0.00017 J4.004) 0.0000045 ank (TU4.005 (TU4.006) CY2006 CY2007 CY2008	03) Ibs/hr Ibs/hr Ibs/hr Ibs/hr Facility Total: Facility Total:	0.0321 0.0281 2.0489 908.0610 5.2255 10.4883	6,253	0.0000 0.0000 0.0000 0.1675 0.2450 0.5690	Furnace emissions factor derived from 2012 M29 stack test.         Electro-winning Cells emissions factor derived from 2012 M29 stack test.         Pregnant and Barren Strip Solution Tanks vented to a common stack with         Electro-winning Cells, therefore, emissions factor is for all three units.         Potential to emit (PTE), not actual - see De Minimis Designation Tech. Rev.         CY2006 Co-product: 335 lbs/yr.         CY2008 Co-product: 490 lbs/yr.         CY2008 Co-product: 1.138 lbs/yr.
Hg System De: Hg System De: Hg System De: Hg Hg	5.70 scription: Electro-v 44,210.00 scription: Pregnan scription: Barren S scription: Barren S	rucible Furnace (S tpy vinning Circuit (TL tpy t Strip Solution Ta tpy Strip Solution Tank tpy aboratory	22.015/104.0 0.00017 J4.004) 0.0000045 ank (TU4.005 (TU4.006) CY2006 CY2007 CY2008 CY2007	03) Ibs/hr Ibs/hr Ibs/hr Ibs/hr Ibs/hr Facility Total: Facility Total: Facility Total:	0.0321 0.0281 2.0489 908.0610 5.2255 10.4883 4.4540	6,253	0.0000 0.0000 0.0000 0.1675 0.2450 0.5690 0.8160	Furnace emissions factor derived from 2012 M29 stack test.         Electro-winning Cells emissions factor derived from 2012 M29 stack test.         Pregnant and Barren Strip Solution Tanks vented to a common stack with         Electro-winning Cells, therefore, emissions factor is for all three units.         Potential to emit (PTE), not actual - see De Minimis Designation Tech. Rev.         CY2006 Co-product: 335 lbs/yr.         CY2007 Co-product: 490 lbs/yr.         CY2008 Co-product: 1,138 lbs/yr.         CY2008 Co-product: 1,138 lbs/yr.
Hg System De: Hg System De: Hg System De: Hg Hg	5.70 scription: Electro-v 44,210.00 scription: Pregnan scription: Barren S scription: Assay La	rucible Furnace (S tpy vinning Circuit (TL tpy t Strip Solution Ta tpy strip Solution Tant tpy aboratory	22.015/104.0 0.00017 14.004) 0.0000045 ank (TU4.005) (TU4.006) CY2006 CY2007 CY2008 CY2008 CY2010	03) Ibs/hr Ibs/hr Ibs/hr Ibs/hr Facility Total: Facility Total: Facility Total: Facility Total: Facility Total: Facility Total:	0.0321 0.0281 2.0489 908.0610 5.2255 10.4883 4.4540 9.3695	6,253	0.0000 0.0000 0.0000 0.1675 0.2450 0.5690 0.8160	Furnace emissions factor derived from 2012 M29 stack test.         Electro-winning Cells emissions factor derived from 2012 M29 stack test.         Pregnant and Barren Strip Solution Tanks vented to a common stack with         Electro-winning Cells, therefore, emissions factor is for all three units.         Potential to emit (PTE), not actual - see De Minimis Designation Tech. Rev.         CY2006 Co-product: 335 lbs/yr.         CY2008 Co-product: 490 lbs/yr.         CY2009 Co-product: 1,632 lbs/yr.         CY2009 Co-product: 1,632 lbs/yr.
Hg System De: Hg System De: Hg System De: Hg Hg	5.70 scription: Electro-v 44,210.00 scription: Pregnan scription: Barren S scription: Assay Li	rucible Furnace (S tpy vinning Circuit (TL tpy t Strip Solution Ta tpy Strip Solution Tant tpy aboratory	22.015/104.0 0.00017 14.004) 0.0000045 ank (TU4.005 (TU4.006) CY2006 CY2007 CY2008 CY2009 CY2010	03) Ibs/hr Ibs/hr Ibs/hr Ibs/hr Facility Total: Facility Total: Facility Total: Facility Total:	0.0321 0.0281 2.0489 908.0610 5.2255 10.4883 4.4540 9.3695	6,253	0.0000 0.0000 0.0000 0.1675 0.2450 0.5690 0.8160 1.0330	Furnace emissions factor derived from 2012 M29 stack test.         Electro-winning Cells emissions factor derived from 2012 M29 stack test.         Pregnant and Barren Strip Solution Tanks vented to a common stack with         Electro-winning Cells, therefore, emissions factor is for all three units.         Potential to emit (PTE), not actual - see De Minimis Designation Tech. Rev.         CY2006 Co-product: 335 lbs/yr.         CY2007 Co-product: 490 lbs/yr.         CY2008 Co-product: 1,138 lbs/yr.         CY2010 Co-product: 2,066 lbs/yr.         CY2010 Co-product: 2,066 lbs/yr.         CY2010 Co-product: 2,066 lbs/yr.
Hg System De: Hg System De: Hg System De: Hg System De: Hg	5.70 scription: Electro-v 44,210.00 scription: Pregnan scription: Barren S scription: Assay Li	rucible Furnace (S tpy vinning Circuit (TL tpy t Strip Solution Ta tpy Strip Solution Tank tpy aboratory	22.015/104.0 0.00017 J4.004) 0.0000045 ank (TU4.005) (TU4.006) CY2006 CY2007 CY2008 CY2009 CY2010 CY2010 CY2012	03) Ibs/hr Ibs/hr Ibs/hr Ibs/hr Facility Total: Facility Total: Facility Total: Facility Total: Facility Total: Facility Total:	0.0321 0.0281 2.0489 908.0610 5.2255 10.4883 4.4540 9.3695 11.1707 2.1450	6,253	0.0000 0.0000 0.0000 0.1675 0.2450 0.5690 0.8160 1.0330 1.0500	Furnace emissions factor derived from 2012 M29 stack test.         Electro-winning Cells emissions factor derived from 2012 M29 stack test.         Pregnant and Barren Strip Solution Tanks vented to a common stack with         Electro-winning Cells, therefore, emissions factor is for all three units.         Potential to emit (PTE), not actual - see De Minimis Designation Tech. Rev.         CY2006 Co-product: 335 lbs/yr.         CY2007 Co-product: 490 lbs/yr.         CY2008 Co-product: 1,138 lbs/yr.         CY2009 Co-product: 1,632 lbs/yr.         CY2010 Co-product: 2,066 lbs/yr.         CY2011 Co-product: 2,100 lbs/yr.         CY2011 Co-product: 2,000 lbs/yr.
Hg System De: Hg System De: Hg System De: Hg System De: Hg	5.70 scription: Electro-v 44,210.00 scription: Pregnan scription: Barren S scription: Assay Li	rucible Furnace (S tpy vinning Circuit (TL tpy t Strip Solution Ta tpy Strip Solution Tan tpy aboratory	22.015/104.0 0.00017 J4.004) 0.0000045 ank (TU4.005) (TU4.006) CY2006 CY2007 CY2008 CY2009 CY2010 CY2011 CY2012 F	03) Ibs/hr Ibs/hr Ibs/hr Ibs/hr Facility Total: Facility Total: Facility Total: Facility Total: Facility Total: Facility Total: Facility Total:	0.0321 0.0281 2.0489 908.0610 5.2255 10.4883 4.4540 9.3695 11.1707 2.1159	6,253	0.0000 0.0000 0.0000 0.1675 0.2450 0.5690 0.8160 1.0330 1.0500 1.4600	Furnace emissions factor derived from 2012 M29 stack test.         Electro-winning Cells emissions factor derived from 2012 M29 stack test.         Pregnant and Barren Strip Solution Tanks vented to a common stack with         Electro-winning Cells, therefore, emissions factor is for all three units.         Potential to emit (PTE), not actual - see De Minimis Designation Tech. Rev.         CY2006 Co-product: 335 lbs/yr.         CY2007 Co-product: 490 lbs/yr.         CY2008 Co-product: 1,138 lbs/yr.         CY2010 Co-product: 2,066 lbs/yr.         CY2011 Co-product: 2,100 lbs/yr.         CY2012 Co-product: 2,927.00 lbs/yr.
Hg System De Hg System De Hg System De Hg System De	5.70 scription: Electro-v 44,210.00 scription: Pregnan scription: Barren S scription: Assay La scription: Assay La	pany: AQOP AP	22.015/104.0 0.00017 J4.004) 0.0000045 ank (TU4.005) (TU4.006) CY2006 CY2007 CY2008 CY2007 CY2010 CY2011 CY2012 F 1041-2125; M	03) Ibs/hr Ibs/hr Ibs/hr Ibs/hr Ibs/hr Facility Total: Facility Total: Facility Total: Facility Total: Facility Total: CPTC AP104	0.0321 0.0281 2.0489 908.0610 5.2255 10.4883 4.4540 9.3695 11.1707 2.1159 1-2228	6,253	0.0000 0.0000 0.0000 0.1675 0.2450 0.8160 1.0330 1.0500 1.4600	Furnace emissions factor derived from 2012 M29 stack test.         Electro-winning Cells emissions factor derived from 2012 M29 stack test.         Pregnant and Barren Strip Solution Tanks vented to a common stack with         Electro-winning Cells, therefore, emissions factor is for all three units.         Potential to emit (PTE), not actual - see De Minimis Designation Tech. Rev.         CY2006 Co-product: 335 lbs/yr.         CY2008 Co-product: 490 lbs/yr.         CY2009 Co-product: 1,138 lbs/yr.         CY2010 Co-product: 2,066 lbs/yr.         CY2011 Co-product: 2,100 lbs/yr.         CY2012 Co-product: 2,927.00 lbs/yr.
Hg System De Hg System De Hg System De Hg System De Hg System De	5.70 scription: Electro-v 44,210.00 scription: Pregnan scription: Barren S scription: Assay Li	pany: AQOP AP	22.015/104.0 0.00017 14.004) 0.000045 ank (TU4.005) (TU4.006) CY2006 CY2007 CY2008 CY2007 CY2010 CY2010 CY2011 CY2012 F 1041-2125; M er: Carbon R	03) Ibs/hr Ibs/hr Ibs/hr Ibs/hr Facility Total: Facility Total: Facility Total: Facility Total: Facility Total: Generation K	0.0321 0.0281 2.0489 908.0610 5.2255 10.4883 4.4540 9.3695 11.1707 2.1159 1-2228 (iln	6,253	0.0000 0.0000 0.0000 0.1675 0.2450 0.5690 0.8160 1.0330 1.0500 1.4600	Furnace emissions factor derived from 2012 M29 stack test.         Electro-winning Cells emissions factor derived from 2012 M29 stack test.         Pregnant and Barren Strip Solution Tanks vented to a common stack with         Electro-winning Cells, therefore, emissions factor is for all three units.         Potential to emit (PTE), not actual - see De Minimis Designation Tech. Rev.         CY2006 Co-product: 335 lbs/yr.         CY2007 Co-product: 490 lbs/yr.         CY2009 Co-product: 1,632 lbs/yr.         CY2010 Co-product: 2,066 lbs/yr.         CY2011 Co-product: 2,100 lbs/yr.         CY2012 Co-product: 2,927.00 lbs/yr.
Hg System De: Hg System De: Hg System De: Hg System De: Hg	5.70 scription: Electro-v 44,210.00 scription: Pregnan scription: Barren S scription: Assay La cription: Assay La cription: Assay La	pany: AQOP AP	22.015/104.0 0.00017 14.004) 0.0000045 ank (TU4.005) (TU4.006) CY2006 CY2007 CY2008 CY2009 CY2010 CY2011 CY2012 F 1041-2125; M er: Carbon R	03) Ibs/hr Ibs/hr Ibs/hr Ibs/hr Facility Total: Facility Total: Facility Total: Facility Total: Facility Total: Facility Total: Cacility Total: Facility Total: Facility Total: Cacility Total: Facility Total: Fac	0.0321 0.0281 2.0489 908.0610 5.2255 10.4883 4.4540 9.3695 11.1707 2.1159 1-2228 (iln 0.0000	6,253	0.0000 0.0000 0.0000 0.1675 0.2450 0.5690 0.8160 1.0330 1.0500 1.4600	Furnace emissions factor derived from 2012 M29 stack test.         Electro-winning Cells emissions factor derived from 2012 M29 stack test.         Pregnant and Barren Strip Solution Tanks vented to a common stack with         Electro-winning Cells, therefore, emissions factor is for all three units.         Potential to emit (PTE), not actual - see De Minimis Designation Tech. Rev.         CY2006 Co-product: 335 lbs/yr.         CY2007 Co-product: 490 lbs/yr.         CY2009 Co-product: 1,138 lbs/yr.         CY2010 Co-product: 2,066 lbs/yr.         CY2011 Co-product: 2,100 lbs/yr.         CY2012 Co-product: 2,927.00 lbs/yr.         System not yet constructed in 2012.
Hg System De: Hg System De: Hg System De: Hg System De: System De: Hg System De:	5.70 scription: Electro-v 44,210.00 scription: Pregnan scription: Barren S scription: Assay Li scription: Assay Li brealis Mining Com scription: Deep Be scription: Deep Be	pany: AQOP AP	22.015/104.0 0.00017 J4.004) 0.0000045 ank (TU4.005) (TU4.006) CY2006 CY2007 CY2008 CY2009 CY2010 CY2012 F 1041-2125; M er: Carbon R er: Mercury F	03) Ibs/hr Ibs/hr Ibs/hr Ibs/hr Facility Total: Facility Total: Facility Total: Facility Total: Facility Total: COPTC AP104 egeneration k Retort	0.0321 0.0281 2.0489 908.0610 5.2255 10.4883 4.4540 9.3695 11.1707 2.1159 1-2228 ilin 0.0000	6,253	0.0000 0.0000 0.0000 0.1675 0.2450 0.5690 0.8160 1.0330 1.0500 1.4600	Furnace emissions factor derived from 2012 M29 stack test.         Electro-winning Cells emissions factor derived from 2012 M29 stack test.         Pregnant and Barren Strip Solution Tanks vented to a common stack with         Electro-winning Cells, therefore, emissions factor is for all three units.         Potential to emit (PTE), not actual - see De Minimis Designation Tech. Rev.         CY2006 Co-product: 335 lbs/yr.         CY2008 Co-product: 490 lbs/yr.         CY2009 Co-product: 1,138 lbs/yr.         CY2010 Co-product: 2,066 lbs/yr.         CY2011 Co-product: 2,100 lbs/yr.         CY2012 Co-product: 2,927.00 lbs/yr.         System not yet constructed in 2012.
Hg System De: Hg System De: Hg System De: Hg System De: Hg System De: Hg	5.70 scription: Electro-v 44,210.00 scription: Pregnan scription: Barren S scription: Assay Li scription: Assay Li crealis Mining Com scription: Deep Be scription: Deep Be Not Reported	pany: AQOP AP	22.015/104.0 0.00017 J4.004) 0.0000045 ank (TU4.005) (TU4.006) CY2006 CY2006 CY2007 CY2008 CY2009 CY2010 CY2012 F 1041-2125; M er: Carbon R er: Mercury F 0.00171	03) Ibs/hr Ibs/hr Ibs/hr Ibs/hr Facility Total: Facility Total: Facility Total: Facility Total: GOPTC AP104 egeneration K egeneration K Eacility Ib/hr	0.0321 0.0281 2.0489 908.0610 5.2255 10.4883 4.4540 9.3695 11.1707 2.1159 11-2228 Ciln 0.0000	189 6,253	0.0000 0.0000 0.0000 0.1675 0.2450 0.5690 0.8160 1.0330 1.0500 1.4600 0.0000	Furnace emissions factor derived from 2012 M29 stack test.         Electro-winning Cells emissions factor derived from 2012 M29 stack test.         Pregnant and Barren Strip Solution Tanks vented to a common stack with         Electro-winning Cells, therefore, emissions factor is for all three units.         Potential to emit (PTE), not actual - see De Minimis Designation Tech. Rev.         CY2006 Co-product: 335 lbs/yr.         CY2008 Co-product: 490 lbs/yr.         CY2009 Co-product: 1,138 lbs/yr.         CY2010 Co-product: 2,066 lbs/yr.         CY2011 Co-product: 2,100 lbs/yr.         CY2012 Co-product: 2,927.00 lbs/yr.         System not yet constructed in 2012.         Stack test invalidated, used default limit to estimate emissions for 2012.
Hg System De: Hg System De: Hg System De: Hg System De: Hg System De: Hg System De:	5.70 scription: Electro-v 44,210.00 scription: Pregnan scription: Barren S scription: Assay Li scription: Assay Li scription: Deep Be scription: Deep Be Not Reported scription: Deep Be	pany: AQOP AP aboratory AQOP AP aboratory ad Carbon Scrubb d Carbon Scrubb	22.015/104.0 0.00017 J4.004) 0.0000045 ank (TU4.005) (TU4.006) CY2006 CY2007 CY2008 CY2009 CY2010 CY2011 CY2012 F 1041-2125; M er: Carbon R er: Mercury F 0.00171 er: Smelting	03) Ibs/hr Ibs/hr Ibs/hr Ibs/hr Ibs/hr Facility Total: Facility Tot	0.0321 0.0281 2.0489 908.0610 5.2255 10.4883 4.4540 9.3695 11.1707 2.1159 1-2228 (iln 0.0000 0.6789	189 6,253	0.0000 0.0000 0.0000 0.1675 0.2450 0.5690 0.8160 1.0330 1.0500 1.4600 0.0000	Furnace emissions factor derived from 2012 M29 stack test.         Electro-winning Cells emissions factor derived from 2012 M29 stack test.         Pregnant and Barren Strip Solution Tanks vented to a common stack with         Electro-winning Cells, therefore, emissions factor is for all three units.         Potential to emit (PTE), not actual - see De Minimis Designation Tech. Rev.         CY2006 Co-product: 335 lbs/yr.         CY2007 Co-product: 490 lbs/yr.         CY2008 Co-product: 1,138 lbs/yr.         CY2010 Co-product: 2,066 lbs/yr.         CY2011 Co-product: 2,100 lbs/yr.         CY2012 Co-product: 2,927.00 lbs/yr.         System not yet constructed in 2012.         Stack test invalidated, used default limit to estimate emissions for 2012.

Source: B	orealis Mining Com	pany: AQOP AP	1041-2125; M	OPTC AP104	1-2228 (continued)			
System De	escription: Deep Be	ed Carbon Scrubb	er: Solutions	Circuit				
Hg	468,000.00	gal/yr	0.00171	lb/hr	11.2398	6,573	0.0000	Stack test invalidated, used default limit to estimate emissions for 2012.
			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 F	acility Total:	12.0456		0.0000	CY2012 Co-product: 0.00 lbs/yr.
Source: B	arrick Turquoise Ri	dge, Inc Getche	ell Mine: AQO	P AP1041-02	92.01; MOPTC AP104	1-2249		
System De	escription: Assay/M	let Laboratory						
Hg					4.9462		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 F	acility Total:	4.9462		0.0000	CY2012 Co-product: x.00 lbs/yr.
Source: N	loble Technologies	Corp.: AQOP AP	1041-2634; N	IOPTC AP10₄	41-2701			
System De	escription: Furnace	s (3 Drying, 1 Sm	elting)					
Hg					4.0026		0.0000	Potential to emit (PTE), not actual - see De Minimis Designation Tech. Rev.
Ŭ.	÷	•	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 F	acility Total:	4.0026		0.0000	CY2012 Co-product: 0.00 lbs/vr.
Source: T	onkin Springs, LLC	: AQOP AP1041	0482.03: MO	PTC AP1041-	2726			
System De	escription: Assav L	aboratory (2 Griev	e Drving Over	ns)				
Ha				,	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/vr.
			CY2011	Facility Total:	4 9200		0,0000	CY2011 Co-product: 0.00 lbs/vr
			CY2012 F	acility Total:	4.9200		0.0000	CY2012 Co-product: 0.00 lbs/vr.
Source: C	omstock Mining 11	C. (formerly Plum	Mining Comp	any LLC). A	OOP AP1041-2761 M	OPTC AP10	41-2690	
System De	escription: Mercury	Betort (S2 XXX/T	14 001)	any, 220). 70	<u>doi /// 1011 2/01, M</u>			
Ha	10.00	tny	0.0000409	lbs/hr	0.0121	296	0.000	No Ha testing conducted in 2012 used 07/17/2013 test result
System De	escription: Refinery	Eurnace (S2 XX)	(/TLI4 002)	100/111	0.0121	200	0.0000	
Ha	4 69	tny	0.000337	lbs/hr	0 2325	690	0.000	No Ha testing conducted in 2012 used 07/17/2013 test result
System De	escription: Assav L	aboratory (12 The	rmal Linits)	100/111	0.2020	000	0.0000	
Ha				1	0.0309		0.000	Potential to emit (PTE) not actual - see De Minimis Designation Tech. Bey
iig			CY2011	Facility Total:	0.0309		0.0000	CY2011 Co-product: 0.00 lbs/vr
			CY2012 F	acility Total:	0.0000		0.0000	CY2012 Co-product: 0.00 lbs/yr
Source: M	lineral Ridge Gold		041-2733: MC		-2222			
System De	ecription: Assay I	aboratory (9 Ther	$\frac{041-2733}{100}$	DF 10 AF 1041	-2222			
Ha	Scription. Assay L		nai onita)	1	2 1256	1	0.0000	Potential to emit (PTE) not actual - see De Minimis Designation Tech. Bey
ng			CV2011	Facility Total:	2.1256		0.0000	CV2011 Co-product: 0.00 lbs/vr
			CV2012 F	acility Total:	2.1250		0.0000	CV2012 Co-product: 0.00 lbs/yr
Sourco: A	urum Joint Vonturo		1041 2511 M		11 2629	E	0.0000	
Svetom Do	aram Joint Venture	, LLO. AQUE AP	1041-2311, W	OF TO AF 102	1-2000			
Ha	Sonption. Assay L		1	1	2 7082		0.0000	Potential to emit (PTE), not actual, see De Minimis Designation Tools, Pou
пу	1	L	CV2000	Eacility Total:	2.1902		0.0000	CV2009 Co-product: 0.00 lbs//r
			CV2010	Facility Total:	2.7902		0.0000	CV2010 Co product: 0.00 lbs/yr.
			CV2011	Facility Total:	2.7902		0.0000	CV2011 Co product: 0.00 lbs/yr.
				racility Total:	2./982		0.0000	CV2012 Co product: 0.00 lbs/yr.
			012012 P	acting Total:	2.1902		0.0000	

Source: Mar	hattan Mining Co	mpany - Goldwe	dge Mine: AQ	OP AP1041-	1457; MOPTC AP1041	-2303		
System Desc	cription: Assay La	aboratory & Dore	Smelting Furn	ace				
Hq					4.4661		0.0000	Potential to emit (PTE), not actual - see De Minimis Designation Tech. Rev.
×		1	CY2006	acility Total:	0.0000	i l	0.0000	CY2006 Co-product: 0.00 lbs/vr.
			CY2007	Facility Total:	4.1040	1 1	0.0000	CY2007 Co-product: 0.00 lbs/vr.
			CY2008	Facility Total:	4.1040	1 1	0.0000	CY2008 Co-product: 0.00 lbs/vr.
			CY2009	Facility Total:	4,1040	1 1	0.0000	CY2009 Co-product: 0.00 lbs/yr.
			CY2010	Eacility Total:	4 1040	1	0,0000	CY2010 Co-product: 0.00 lbs/yr
			CY2011	Facility Total:	4 1040	1	0.0000	CV2011 Co-product: 0.00 lbs/vr
			CY2012 E	acility Total:	4 4661	1 1	0.0000	CV2012 Co-product: 0.00 lbs/yr
Source: New	mont Mining Cor	poration - Phoen	iv Mine: AOOI	D AP10/1-02		1 22/7	0.0000	
Source: Nov	vintion: Electric (	Poration - Thousan	tion Kiln (S2 (		20.02, WOF TO AF 104	1-2241		
				02/104.001)	0.0050	4 205	0.0000	Carbon Kills amissions factor derived from 2012 M29 stack test
Fuetom Desc	z,525.00	μy Potort (S2 014/T	114.002)		0.0030	4,205	0.0000	
		Reiori (32.014/1)	04.002)	lbc/br	0.0000	0.659	0.0000	Detert emissions faster derived from 2012 M20 stack tost
⊓y Svotom Door	29.90	ipy	0.0000001	IDS/TIT	0.0000	2,000	0.0000	Refort emissions factor derived from 2012 M29 stack test.
System Desc	ription: Pregnant	a Barren Strip S	SOLULION LANKS		0.0040		0.0000	Determine the amit (DTE) met entruel, and De Minimia Depignation Teals Roy
	' tions Electre y	i size Celle			0.0940	I	0.0000	
System Desc	ription: Electro-w	vinning Cells	1		0.0700		0.0000	D. L. (1. L. Swith (DTE), wet estimate and De Minimie Designation Tech. Deu
Hg	ļı	ļ	0)/0000	T	0.2733	i	0.0000	Potential to emit (PTE), not actual - see De Minimis Designation Tech. Hev.
			CY2006 1	-acility I otal:	2.3061	1	0.0000	CY2006 Co-product: 0.00 lbs/yr.
			CY2007 F	achity Total	0.4579	1	0.0000	
			CY20091	-acility I otal:	1.3102	1	0.0000	CY2009 Co-product: 0.00 lbs/yr.
			CY2010 F	-acility I otai:	0.3835	1	0.0000	CY2010 Co-product: 0.00 lbs/yr.
			CY20111	acility I otai:	0.3749	1	0.0000	CY2011 Co-product: 0.00 lbs/yr.
			Сү2012 га	acility Iotai:	0.3724	لــــــا	0.0000	CY2012 Co-product: 0.00 lbs/yr.
Source: Bar	rick Goldstrike Mil	nes, Inc.: AQOP	AP1041-0739	.01; MOPTC	AP1041-2221			
Custom Door	vistion: North Do			tar and Dru	Orighing Process (SO (	004 0 00 000		
System Desc		aster IVIIII Circuit		ater and Dry u	Grinding Process (52.2	.04 & S2.205	0.000	(2/104.001)
Fig System Doce	2,704,775.00	ipy Circuit	0.000009	IDS/III	0./ 1990/ Crinding Propose (S2/	1,020		MIII GICUIT # LEMISSIONS RECLOF GENVED FROM 2012 MIZE SLACK LESIS.
	2 490 292 00	Jaster will Groun		lbc/br	5 775967	200 a 32.20 7 022	0.0000	12/104.002)
Fig Custom Door	2,409,203.00	ιμy #1 9 #2 (82 200	0.000729		5.//500/	1,920	0.0000	
System Desc	ription: noasters	#1 & #2 (32.203	1.1 & 52.209.2/	104.003 & 1	04.004)	· · · · · ·		Beaster Circuit emissions factor derived from 2012 M20 stock test. Testing
						1	l	Roaster Circuit emissions racior derived from 2012 M29 stack test. Testing
						i	l	Was conducted during dual Roaster operations. Annual nours operated is
L la	5 005 100 00	101	0.0167	lba/br	100 4644	7 000	0.0000	The average of individual Roaster operations. Roaster #1 operated 7,917
Hy Custom Door	5,685,190.00	tpy	U.U.IO/	IDS/III	132.4044	7,932	0.0000	Inrs/yr, Roaster #2 operated 7,946 nrs/yr.
System Desc		aster Gircuit #10	Juenching Pro	Cess (52.210	/104.005)	7.017	0.0000	Ourset Otherwith #1 emissions faster derived from 0010 M00 stack test
Hg Custom Deer	3,035,462.00	tpy	0.00198		15.6/566	7,917	0.0000	Quench Circuit #1 emissions factor derived from 2012 M29 stack test.
System Desc		Daster Circuit #2		Cess (52.21	0.045556	7.046	0.0000	Lowerst Olimuit #0 emissions faster derived from 2012 M20 stack test
Hy Custom Deer	2,649,728.00	tpy	0.000786	IDS/11	6.245556	7,940	0.0000	Quench Circuit #2 emissions factor derived from 2012 M29 stack test.
System Desc	ription: Analytica	I Assay Laborato	ry (52.051/10	4.007)	1 1001	0.704	0.0000	A L L sub-stars for the dominant for an 0010 M00 pately test
Hg	41.00	tpy	0.000129		1.1331	8,784	0.0000	Assay Lab emissions factor derived from 2012 M29 satck test.
System Desc	ription: Carbon H	Reactivation Kiln	(S2.004.1/104	.008)	0.4000	0.000	0.0000	
Hg	3,445.00	tpy	0.0000464	Ibs/nr	0.1688	3,639	0.0000	Carbon Kiln emissions factor derived from 2012 Mi29 stack test.
System Desc	ription: Pregnant	& Barren Strip S	Solution Tanks	- Circuit A (1	04.009 & 104.011)	0.704	2.2000	
Hg	Not Reported	gals/yr	0.0000341	lbs/hr	0.2995	8,784	0.0000	Preg./Barren Tanks A emissions factor derived from 2012 M29 stack test.
System Desc	ription: Pregnant	t & Barren Strip S	Solution Lanks	- Circuit B (1	U4.010 & TU4.012)	- 704		
Hg	Not Reported	gals/yr	0.0000431	lbs/hr	0.3786	8,784	0.0000	Preg./Barren Tanks B emissions factor derived from 2012 M29 stack test.
System Desc	cription: Autoclave	e #1 (S2.015/104	4.013)			Acidic	Operation	
Hg	0.00	tpy	0	lbs/hr	0.0000	0	0.0000	Autoclave #1 did not operate in acidic mode during 2012.
System Desc	cription: Autoclave	e #1 (S2.015/104	4.013)			Alkaline	e Operation	
Hg	0.00	tpy	0	lbs/hr	0.0000	0	0.0000	Autoclave #1 did not operate in alkaline mode during 2012.
System Desc	cription: Autoclave	es #2 & 3 (S2.01	6 & S2.017/TU	14.014 & TU4	.015))	Acidic	Operation	
						1	1	Autoclaves #2 & 3 emissions factor derived from 2012 M29 stack test.
						1	l	Testing was conducted during dual Autoclave operation and only during
						1	1	acidic operations mode. Annual hours operated is the average of individual
						1	l	Autoclave operations. Autoclave #2 (TU4.014) operated 5,136 hrs/yr;
Hg	1,246,847.00	tpy	0.00477	lbs/hr	20.8735	4,376	0.0000	Autoclave #3 (TU4.015) operated 3,616 hrs/yr.
System Desc	cription: Autoclav	es #2 & 3 (S2.01	6 & S2.017/TU	14.014 & TU4	.015))	Alkaline	e Operation	
Hg	0.00	tpy	0	lbs/hr	0.0000	0	0.0000	Autoclaves #2 &3 did not operate in alkaline mode during 2012.

Source: Barr	rick Goldstrike Mi	nes, Inc.: AQOP	AP1041-0739	0.01; MOPTC	AP1041-2221 (continu	ied)		
System Desc	cription: Autoclav	es #4 - 6 (S2.018	- S2.020/TU4	1.016 - TU4.0	18))	Acidic	Operation	
								Autoclaves #4 - 6 emissions factor derived from 2012 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 223 hours/vr:
Ha	120.630.00	tpv	0.000135	lbs/hr	0.0479	355	0.0000	#5 operated 376 hours/vr: and #6 operated 467 hrs/vr.
System Desc	cription: Autoclay	es #4 - 6 (S2 018	- S2 020/TU4	016 - TU4 0	18)	Alkaline	Operation	
-)								Autoclayes #4 - 6 emissions factor derived from 2012 M29 stack test
								Testing was conducted during simultaneous operations and only during
								alkaling operations mode. Appual bours operated is the average of individual
								Autoslava aparationa during alkalina mada. Autoslava #4 aparated
110	0.040.001.00	test	0.000105	lb c /b r	0.7590	E 010	0 0000	Autociave operations during alkaline mode. Autociave #4 operated
⊓g Custan Daa	2,049,231.00	ipy	0.000135	IDS/III	0.7586	5,619	0.0000	5,113 hrs/yr, #5 operated 5,965 hrs/yr, and #6 operated 5,779 hrs/yr.
System Desc		Retorts #1 (S2.00	)9/104.019)	lle e /le a	0.0004	0.005	0.0000	Batast #1 aminutaness factors dowing a forms 004.0 M00 attack to at
Hg	37.00		0.00132	IDS/nr	3.0294	2,295	0.0000	Refort #1 emissions factor derived from 2012 M29 stack test.
System Desc	cription: Mercury	Retorts #2 (S2.01	10/104.020)		0.0007	0.017	0.0000	
Hg	24.00	tpy	0.000275	lbs/hr	0.6097	2,217	0.0000	Retort#2 emissions factor derived from 2012 M29 stack test.
System Desc	cription: Mercury	Retorts #3 (S2.01	1/104.021)					
Hg	34.00	tpy	0.0014	lbs/hr	3.2914	2,351	0.0000	Retort #3 emissions factor derived from 2012 M29 stack test.
System Desc	ription: Mercury	Retort #4 (S2.341	I/TU4.025)		r	•	-	
Hg	0.00	tpy	0	lbs/hr	0.0000	0	0.0000	Retort #4 did not operate in 2012.
System Desc	cription: Mercury	Retorts #'s 1 - 4 (	Cumulative C	o-product)				
Hg							44.4100	Cumulative co-product for all four mercury retorts.
System Desc	cription: East & W	Vest Refinery Fur	naces & Elect	ro-winning Ce	ells combined vented th	nrough a con	nmon carbon fi	ilter and stack (S2.013 & S2.014/TU4.022 & TU4.023)
								Furnaces's/EW Cells emissions factor derived from 2012 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 509 hrs/yr; West Furnace (TU4.023)
Ha	86.00	tpy	0.0241	lbs/hr	12.3392	512	0.0000	operated 515 hrs/yr.
System Desc	ription: Electro-v	vinning Cells only	(TU4.024)					
		<u> </u>		1		1		EW Cells emissions factor derived from 2012 M29 stack test while the
								Eurnaces were not operating. Total EW Cell operating hours were 7 680
								hrs/vr Combined Eurnace/EW Cell operating hours of 512 hrs/vr were
								subtracted from total hours operated to arrive at 7 168 hours of EW Cell
На	Not Reported	aale/vr	0.0168	lbe/br	120 / 22/	7 168	0 0000	operations only
System Deer	rintion: Elution C	Gaio/yi	0.0100	50 222 0/T		7,100	0.0000	operations only.
			0	- 32.333.8/1	0 0000	0	0.0000	Elution Circuit Process Tanks did not operate in 2012
Evetern Dees	0.00	yais/yi	U tra winning Ci		0.0000	U	0.0000	
System Desc				Iba/br	0.0000	- 104.032)	0.0000	DIL Electro winning Circuit did not energia in 2010
⊓g Gustana Daar	0.00	gais/yr		IDS/III	0.0000	U bauatauiaa C	0.0000	IRIL Electro-winning Circuit did not operate in 2012.
System Desc	nplion: Assay, iv	iiii, iviiii iviet, Auto	ciave, Autocia	ve wet and R	loaster Pumphouse La	boratories, s		
Hg	0.00		0)(0000		4./500		0.0000	Potential to emit (PTE), not actual - see De Minimis Designation Tech. Rev.
			CY2006	Facility Total:	616./650		98.5500	10 Y 2006 Co-product: 197,100 lbs/yr.
			CY2007	Facility I otal:	/08.6590		58.6300	CY2007 Co-product: 117,260 lbs/yr.
			CY2008	Facility I otal:	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 F	acility Total	334 9836		44 4100	CY2012 Co-product: 88,820.00 lbs/yr. (x.00 lbs calomel; x.00 lbs -
			0120121	addity rotal.	004.000		0011.74	elemental).

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CY 2012 Cu	Imulative	Totals	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
Process Emissions (Ibs/yr)		Co-Product (tpy)	to ensure reporting accuracy.
1,393.42		115.95	Co-product: 231,900 lbs/yr

CY 2010 Cumula	tive Totals	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
Process Emissions	Co-Product	to ensure reporting accuracy.
(lbs/yr)	(tpy)	
1,607.96	106.77	
		Co-product: 213,540 lbs/yr
CY 2010 Cumula	tive Totals	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
Process Emissions	Co-Product	to ensure reporting accuracy.
(lbs/yr)	(tpy)	
1,134.15	101.59	
		Co-product: 203,180 lbs/yr
CY 2009 Cumula	tive 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
Process Emissions	Co-Product	to ensure reporting accuracy. In general, testing went much better in 2009
lbs/yr	tpy	than in 2008 with far fewer testing irregularities or instances where test
		results were invalidated.
1 000 10	00.40	
1,336.46	90.18	Co-product: 180,360 lbs/yr
CV 2008 Cumula	tivo Totolo	CV 2008 process amingiana ware largely derived using one consistent
		ERM testing methodology (Method 29) Testing protocols were reviewed
		prior to test commencement and all final report submittals were reviewed
Process Emissions	Co-Product	to ensure reporting accuracy. Some facilities had entire testing events.
lbs/vr	tpy	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.
3,165.90	102.93	Co-product: 205,860 lbs/yr
CY 2007 Cumula	tive Totals	CY 2007 process emissions were largely derived using one consistent
		FRM testing methodology (Method 29) with scattered M101A and OHM
Process Emissions	Co-Product	results used in lieu of M29 due to test schedule conflicts/logistics issues.
lbs/yr	tpy	Testing protocals were reviewed prior to test commencement and all final
		report submittals were reviewed to ensure reporting accuracy.
4,764.52	97.68	Co-product: 195,360 lbs/yr
	51.00	
	57.55	
CY 2006 Cumula	tive Totals	CY 2006 process emissions and co-product values were accepted
CY 2006 Cumula Process Emissions	tive Totals Co-Product	CY 2006 process emissions and co-product values were accepted "as submitted" due to variability in testing methodology, emission
CY 2006 Cumula Process Emissions Ibs/yr	tive Totals Co-Product tpy	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.

Note that the total value is lower than actual industrywide 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.

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