

# Key Performance Data

Economic (in \$ millions, unless otherwise stated)	2022	2021	2020	2019	2018
<b>Direct economic value generated and distributed</b>					
Profit (loss) before tax	\$ 95.8	\$ (217.4)	\$ (144.6)	\$ (452.8)	\$ 170.8
Revenues	\$ 1,461.4	\$ 1,501.6	\$ 1,088.7	\$ 1,237.4	\$ 1,472.3
<b>Operating costs</b>					
Canada	338.0	706.2	450.0	448.3	458.5
US	99.9	39.4	6.1	29.7	1.8
Peru	435.6	379.9	311.3	375.9	374.7
Chile	0.1	0.3	0.3	5.5	5.8
Total	\$ 873.6	\$ 1,125.8	\$ 767.7	\$ 859.4	\$ 840.8
<b>Employee wages and benefits</b>					
Canada	176.2	183.1	168.2	150.8	161.3
US	9.0	5.5	4.0	5.9	6.2
Peru	52.9	60.8	50.6	45.4	47.3
Chile	0.0	0.0	0.0	0.0	0.0
Total	\$ 238.1	\$ 249.4	\$ 222.8	\$ 202.1	\$ 214.8
<b>Payments to government</b>					
Taxes paid					
Canada	3.5	2.7	2.2	5.8	9.6
US	0.0	0.1	0.0	0.0	0.2
Peru	36.3	28.0	24.1	32.9	47.6
Chile	0.0	0.0	0.0	0.0	0.0
Total	\$ 39.9	\$ 30.8	\$ 26.3	\$ 38.7	\$ 57.4

Economic (in \$ millions, unless otherwise stated)	2022	2021	2020	2019	2018
Municipal taxes and grants					
Canada	13.6	14.4	10.9	6.6	5.7
US	0.5	0.3	0.2	0.0	0.0
Peru	19.2	12.2	10.5	9.7	2.9
Chile	0.0	0.0	0.0	0.0	0.0
Total	\$ 33.4	\$ 30.8	\$ 21.6	\$ 16.3	\$ 8.6
Penalties and interest paid					
Canada	0.0	0.0	0.0	0.0	0.0
US	0.0	0.0	0.0	0.0	0.0
Peru	0.1	0.0	0.1	2.1	0.0
Chile	0.0	0.0	0.0	0.0	0.0
Total	\$ 0.1	\$ 0.0	\$ 0.1	\$ 2.1	\$ 0.0
<b>Payments to providers of capital</b>					
Dividends paid	\$ 4.0	\$ 4.1	\$ 3.8	\$ 3.9	\$ 4.0
Interest payments made to providers of loans	\$ 63.8	\$ 84.4	\$ 81.5	\$ 74.8	\$ 74.8
Financing fees paid					
Canada	0.0	8.5	4.7	1.7	3.6
Peru	0.0	11.2	11.5	24.4	17.0
Total	\$ 12.3	\$ 19.6	\$ 16.2	\$ 26.1	\$ 20.6
<b>Capital expenditures – cash flow basis</b>	\$ 309.0	\$ 377.4	\$ 361.2	\$ 259.2	\$ 190.9
<b>Payments – local communities for land use (in \$000s)</b>					
Canada	27.9 <sup>1</sup>	3.1	0.0	0.0	0.0
US	0.0	0.0	0.0	0.0	0.0
Peru	35,232.0	26,195.0	98,322.0	3,355.0	1,062.0
Total land use payments	\$35,259.9	\$ 26,198.1	\$ 98,322.0	\$ 3,355.0	\$ 1,062.0

<sup>1</sup> Community payments made for the development of a trailer park and airport in Snow Lake.

Economic (in \$ millions, unless otherwise stated)	2022	2021	2020	2019	2018
<b>Public benefit</b>					
Community investments and charitable donations (in \$000s)					
Canada	449.2	702.8	552.3	373.8	395.6
US	38.4	94.5	93.0	162.0	204.5
Peru	9,599.0	8,480.0	4,633.0	7,572.0	4,499.7
Chile	0.0	0.0	0.0	0.0	0.0
Total community investments and donations <sup>1</sup>	\$ 10,086.6	\$ 9,277.3	\$ 5,278.4	\$ 8,107.8	\$ 5,099.8
Resettlement investment (Peru) (in \$000s)	\$ 1,288.0 <sup>2</sup>	\$ 43.0	\$ 0.0	\$ 0.0	\$ 130.0
<b>Production (contained metal in concentrate)</b>					
Manitoba					
Copper (000 tonnes)	14.8	21.7	22.2	23.4	32.4
Zinc (000 tonnes)	55.4	93.5	111.8	119.1	115.6
Gold (000 ounces)	161.5	143.5	112.2	95.0	95.7
Silver (000 ounces)	851.9	1,072.5	1,127.9	1,080.6	1,224.6
Peru					
Copper (000 tonnes)	89.4	77.8	73	113.8	122.2
Gold (000 ounces)	58.2	50.3	12.4	19.7	24.2
Silver (000 ounces)	2,309.4	1,972.9	1,623.0	2,504.8	2,729.9
Molybdenum (000 ounces)	1.4	1.1	1.2	1.3	0.9
Total					
Copper (000 tonnes)	104.2	99.5	95.3	137.2	154.6
Zinc (000 tonnes)	55.4	93.5	118.1	119.1	115.6
Gold (000 ounces)	219.7	193.8	124.6	114.7	119.9
Silver (000 ounces)	3,161.3	3,045.5	2,750.9	3,585.3	3,954.5
Molybdenum (000 ounces)	1.4	1.1	1.2	1.3	0.9
<b>Metal production</b>					
Zinc (000 tonnes)	37.4	89.6	111.6	103.3	102.1

<sup>1</sup> Political donations are included in this total; however, in accordance with Hudbay policy, political donations were \$0.

<sup>2</sup> Resettlement payments are a continuation of commitments made for the operation of the Constancia mine. Negotiation agreements were signed with 36 owners and include the resettlement process for the 36 affected families in the area of Coporaque, specifically the Fundo Quinsachata.

Employees	2022	2021	2020	2019	2018
<b>Total workforce</b>					
Full-time employees					
Manitoba	974	1,323	1,392	1,411	1,382
Corporate	75	75	76	69	74
Arizona	42	60	28	25	33
Peru	833	787	739	728	690
Total full-time employees	1,924	2,245	2,235	2,233	2,179
<b>Employment</b>					
Part-time employees					
Manitoba	0	34	31	14	13
Corporate	1	0	0	1	0
Arizona	2	0	4	2	2
Peru	0	0	0	0	0
Total part-time employees	3	34	35	17	15
Contract (term) employees					
Manitoba	47	56	51	64	34
Corporate	3	2	1	2	4
Arizona	16	45	1	1	1
Peru	247	139	165	130	165
Total contract employees	313	242	218	197	211
Co-op and summer students hired					
Manitoba	4	26	20	13	27
Corporate	0	0	4	5	3
Arizona	0	3	0	0	3
Peru	42	33	30	23	12
Total co-op/summer students	46	62	54	41	45
Employees represented by collective bargaining agreements	1,089	1,332	1,389	1,238	1,370
Percentage of employees represented by trade unions (includes all full-time and part-time employees)	57%	58%	61%	55%	58%

Employees	2022	2021	2020	2019	2018
<b>Operational changes</b>					
Minimum number of weeks provided before operational changes (MBU only)	2	2	2	2	2
Negotiated into collective agreements (MBU only)	Yes	Yes	Yes	Yes	Yes
Number of strikes or lockouts exceeding one week					
Manitoba	0	0	0	0	0
Corporate	N/ap	N/ap	N/ap	N/ap	N/ap
Arizona	N/ap	N/ap	N/ap	N/ap	N/ap
Peru	0	0	0	0	0
Total	0	0	0	0	0
<b>Employee turnover (voluntary and involuntary, unless noted; includes all full-time employees)</b>					
Manitoba	469	254	179	168	189
Corporate	10	13	10	18	7
Arizona	29	46	10	18	10
Peru	93	81	104	84	108
Total	601	394	303	288	314
Employee turnover – age distribution					
<30	27%	29%	21%	18%	25%
30–50	44%	45%	42%	47%	44%
>50	29%	26%	37%	35%	31%
Employee turnover – gender					
Male	76%	80%	82%	79%	76%
Female	24%	20%	18%	21%	24%
Voluntary turnover rate (Hudbay total)	9%	14%	9%	9%	10%
Involuntary turnover rate (Hudbay total)	22%	2%	5%	4%	4%

Employees	2022	2021	2020	2019	2018
<b>New employee hires</b>					
Manitoba	78	189	172	233	222
Corporate	11	13	8	13	15
Arizona	32	35	16	8	3
Peru	194	112	146	98	227
Total	315	349	342	352	467
New hires – age distribution					
<30	45%	45%	36%	39%	35%
30–50	46%	44%	54%	45%	59%
>50	9%	11%	11%	16%	12%
New hires – gender					
Male	71%	68%	80%	78%	81%
Female	29%	32%	20%	22%	19%
<b>Net number of full-time employees added (decreased)</b>					
Canada	(419)	(70)	(12)	24	54
US	14	32	3	(8)	(2)
Peru	94	48	11	38	386
Total	(311)	10	2	54	438
<b>Senior management from local community</b>	2	5	5	4	6
<b>Number of contractor full-time equivalent staff</b>					
Manitoba	553	710	456	407	429
Peru	2,389	2,838	1,774	2,283	1,737
Arizona	117	37	14	15	13
<b>Person-hours of work (including contractors)</b>					
North America	5,157,627	5,583,816	3,902,648	3,750,575	3,701,855
South America	6,364,413	7,551,957	6,257,428	7,146,600	5,992,125
Total person-hours	11,522,040	13,135,773	10,160,076	10,897,175	9,693,980
<b>Employees receiving regular performance and career development reviews (includes all full-time employees)</b>					
Percentage reviewed	75%	62%	59%	53%	46%

Employees	2022	2021	2020	2019	2018
<b>Hudbay total workforce age distribution (includes all full-time employees)</b>					
<30	14%	16%	14%	14%	13%
30–50	62%	59%	63%	62%	58%
>50	24%	25%	23%	24%	29%
<b>Composition of employees</b>					
Workforce diversity (includes all full-time employees)					
Female					
Manitoba	17%	19%	18%	16%	15%
Corporate	38%	42%	41%	48%	43%
Arizona	27%	29%	32%	28%	45%
Peru	15%	10%	12%	12%	12%
Total	17%	17%	17%	16%	16%
Percentage of workforce that are Indigenous (MBU only)	13%	16%	15%	15%	15%
Percentage of workforce that are disabled (MBU only)	2%	2%	2%	4%	4%
Percentage of workforce that are visible minorities (MBU only)	6%	7%	5%	6%	6%
<b>Composition of executive management and corporate governance bodies</b>					
Board of Directors (ratio male to female)	2.7:1	2.3:1	2.3:1	2.7:1	2.5:1
Age distribution					
<30	0%	0%	0%	0%	0%
30–50	9%	10%	10%	9%	0%
>50	91%	90%	90%	91%	100%
Executive management (ratio male to female)	5.5:1	6:1	13:1	13:1	7:1
Age distribution					
<30	0%	0%	0%	0%	0%
30–50	45%	47%	43%	43%	30%
>50	55%	53%	57%	57%	70%

Employees	2022	2021	2020	2019	2018
<b>Ratio of annual compensation of highest paid individual to mean total compensation (includes all full-time employees and Peru contract employees)</b>					
Canada (MBU, excluding Corporate office)	3.5:1 <sup>1</sup>	7.4:1	7.1:1	4.1:1	5.8:1
Canada (including Corporate office)	24.4:1	30.8:1	23.0:1	26.4:1	28.3:1
Peru	29.1:1 <sup>2</sup>	16.1:1	14.5:1	17.8:1	19.1:1
US (ABU)	10.8:1 <sup>3</sup>	32.5:1	8.8:1	4.4:1	5.5:1
<b>Workforce represented in formal joint management-worker Health and Safety Committees</b>					
Percentage represented	98% <sup>4</sup>	97%	99%	99%	100%
<b>Health and safety performance (per 200,000 hours worked, except where noted)</b>					
Lost time injury (LTI) frequency					
Manitoba	1.4	0.6	0.6	0.7	0.9
Manitoba contractors	0.0	0.1	0.2	0.0	0.0
Peru	0.1	0.0	0.1	0.1	0.1
Peru contractors	0.0	0.0	0.0	0.0	0.1
Arizona	0.0	0.0	0.0	0.0	0.0
Arizona contractors	0.0	0.0	0.0	0.0	0.0
Chile	0.0	0.0	0.0	0.0	0.0
Chile contractors	0.0	0.0	0.0	0.0	2.6
Other North America (not including MBU and ABU)	0.0	0.0	0.0	0.0	0.0
Other North America contractors (not including MBU and ABU)	0.0	0.0	0.0	0.0	0.0
Other South America (not including Peru and Chile)	0.0	0.0	0.0	0.0	0.0
Other South America contractors (not including Peru and Chile)	0.0	0.0	0.0	0.0	0.0
Total	0.3	0.2	0.2	0.2	0.3

<sup>1</sup> Hudbay's VP, Manitoba Business Unit started partway through 2022; thus the ratio dropped significantly.

<sup>2</sup> Hudbay's SVP, South America and USA is responsible for both Peru and Arizona. Although he is paid out of Arizona payroll, he has been included as the highest paid person in both geographical areas.

<sup>3</sup> Variations here are due to Arizona's employee expense cost being much higher than in 2021, even though the headcount at year-end 2022 was in line with 2021. This is because part of the 2022 headcount for Arizona was let go before year-end, causing a variation in the ratio.

<sup>4</sup> Hudbay's Arizona employees are currently not covered because the size of their office does not require it.

Employees	2022	2021	2020	2019	2018
Lost time injury severity (SEV)					
Manitoba	42.2 <sup>1</sup>	8.8	10.5	5.5	41.3
Manitoba contractors	0.0	826.5	6.1	0.0	0.0
Peru	0.1	0.0	0.0	9.4	2.5
Peru contractors	7.0 <sup>2</sup>	0.2	0.0	1.6	3.3
Arizona	0.0	0.0	0.0	0.0	0.0
Arizona contractors	0.0	0.0	0.0	0.0	0.0
Chile	0.0	0.0	0.0	0.0	0.0
Chile contractors	0.0	0.0	0.0	0.0	178.7
North America (not including MBU and ABU)	0.0	0.0	0.0	0.0	0.0
North America contractors (not including MBU and ABU)	0.0	0.0	0.0	0.0	0.0
South America (not including Peru)	0.0	0.0	0.0	0.0	0.0
South America contractors (not including Peru)	0.0	0.0	0.0	0.0	0.0
Total	11.0	94.9	3.4	4.1	13.1
Total recordable injury frequency					
Manitoba	3.8	2.8	2.7	3.1	3.7
Manitoba contractors	4.0	5.7	3.4	4.3	2.3
Peru	0.1	0.1	0.2	0.3	0.2
Peru contractors	0.2	0.4	0.4	0.3	0.3
Arizona	6.6	5.2	4.2	0.0	0.0
Arizona contractors	0.8	0.0	0.0	0.0	0.0
Chile	0.0	0.0	0.0	0.0	0.0
Chile contractors	0.0	0.0	0.0	4.4	2.6
North America (not including MBU and ABU)	0.0	0.0	0.0	1.3	0.0
North America contractors (not including MBU and ABU)	0.0	0.0	0.0	0.0	0.0
South America (not including Peru)	0.0	0.0	0.0	0.0	0.0
South America contractors (not including Peru)	0.0	0.0	0.0	0.0	0.0
Total	1.3	1.4	1.3	1.3	1.3

<sup>1</sup> Sixty-two percent of the 2022 lost time injuries in Manitoba were due to sprain/strain injuries. In response to this, Manitoba is starting a pre-work warm-up program.

<sup>2</sup> Lost time carried over from a contractor lost time injury in December 2021.

Employees	2022	2021	2020	2019	2018
First aid (FA) frequency					
Manitoba	17.0	14.0	18.1	20.8	28.9
Manitoba contractors	17.4	14.5	12.6	16.6	8.7
Peru	0.2	0.2	0.2	0.4	1.0
Peru contractors	1.0	0.8	0.8	0.9	1.3
Arizona	9.9	2.6	0.0	3.4	0.0
Arizona contractors	9.0	1.2	0.0	12.5	0.0
Chile	0.0	0.0	0.0	0.0	0.0
Chile contractors	0.0	0.0	0.0	0.0	0.0
North America (not including MBU and ABU)	0.0	0.0	0.0	0.0	1.4
North America contractors (not including MBU and ABU)	0.0	0.0	0.0	0.0	0.0
South America (not including Peru)	0.0	0.0	0.0	0.0	0.0
South America contractors (not including Peru)	0.0	0.0	0.0	0.0	0.0
Total	5.7	4.9	6.4	6.9	8.6
Fatality	0	1	0	0	0
Absentee rate (as a percentage of hours scheduled to be worked)	N/av	N/av	N/av	N/av	N/av
Reportable occurrences (defined as EHS incidents required by Hudbay policy to be reported to our Board of Directors)	67	61	57	81	79

	Corporate	MBU		Peru	ABU	
Benefits 2022	Full time	Full time	Part time	Full time	Full time	Part time
Life insurance	Yes	Yes	Yes	Yes	Yes	No
Health care	Yes	Yes	Yes	Yes	Yes	No
Disability and invalidity coverage	Yes	Yes	No	Yes	Yes	No
Parental leave	Yes	Yes	No	Yes	Yes	No
Retirement provision	Yes	Yes	No	Yes	Yes (401k)	No
Stock ownership	Yes	Yes	No	Yes	Yes	No
Other – critical illness insurance	Yes	Management only	No	Yes	No	No
Other – accidental death and dismemberment insurance	Yes	Yes	No	Yes	Yes	No

Society	2022	2021	2020	2019	2018
<b>Total number of incidents of discrimination (and actions taken)</b>	<b>0</b>	0	0	0	1
<b>Land use disputes</b>	<b>0</b>	2	0	1	1
<b>Resettlements</b>					
Number of households (Peru only)	<b>0</b>	0	0	0	0
Number of individuals (Peru only)	<b>0</b>	0	0	0	0
<b>Employees that received training/communication on anti-corruption policies</b>					
Number	<b>1,162</b>	354	546	562	564
Percentage	<b>60%<sup>1</sup></b>	58%	90%	92%	100%
<b>Number and percentage of operations assessed for corruption risks</b>					
Number – operations	<b>4</b>	4	4	4	4
Percentage	<b>100%</b>	100%	100%	100%	100%
<b>Governance body members that anti-corruption policies have been communicated to</b>					
Number	<b>11</b>	10	10	9	10
Percentage	<b>100%</b>	100%	100%	100%	100%
<b>Governance body members that received training on anti-corruption policies</b>					
Number	<b>11<sup>2</sup></b>	10	10	9	10
Percentage	<b>100%</b>	100%	100%	100%	100%

<sup>1</sup> Hudbay's anti-corruption training varies from year to year. On an annual basis, all directors, officers and employees with Hudbay email addresses, accounting for 60% of our workforce this year, are required to read and sign off on our compliance policies (including our Whistleblower Policy, Code of Business Conduct and Ethics, and Statement on Anti-Corruption).

<sup>2</sup> Board directors are required to complete the same annual certification process as our employees with respect to our key compliance policies. In addition, our directors are encouraged to attend third-party educational programs, particularly with the Institute of Corporate Directors, through which they have access to educational materials and are invited to training seminars throughout the year. For more information, see our [Management Information Circular](#).

Society	2022	2021	2020	2019	2018
<b>Average hours of training (Peru and Arizona business units only)</b>					
Males in management	180.36	26.43	26.97	32.35	65.69
Females in management	56.56	0.70	1.37	20.00	75.73
Males in non-management	179.20	0.96	52.37	42.92	118.09
Females in non-management	29.17	3.04	48.53	20.14	113.48
Average spend (DJSI)	\$293	\$208	\$466	\$466	\$208
<b>Security practices (security personnel training)</b>					
Hudbay security personnel trained in human rights policies and procedures					
Number	18	16	21	16	15
Percentage	100%	89%	100%	100%	100%
Contractor security personnel trained in human rights policies and procedures					
Number	181	129	125	116	135
Percentage	100%	100%	100%	100%	98%
<b>Value of fines or sanctions for non-compliance with laws and regulations</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>
<b>Grievances about impacts on society</b>					
Number filed through formal grievance mechanisms	85	55	64	78	15
Number addressed during reporting period	85	55	64	9	15
Number resolved during reporting period	75	46	53	69	1
Number filed prior to the reporting period that were resolved during the reporting period	0	0	0	6	8
Number of other concerns					
Environment	5	3	7	5	0
Labour and commercial practices	235	132	151	152	104
Resettlement/livelihood	3	1	9	4	0
Human rights	0	1	1	1	0
Other	11	48	26	25	4

Society	2022	2021	2020	2019	2018
<b>Closure plans</b>					
Total number of operations	5	6	4	4	4
Number of company operations that have closure plans	5	6	4	4	4
Percentage of total operations with closure plans	100%	100%	100%	100%	100%
Number of advanced exploration projects that have closure plans	2	4	2	3	2
Percentage of advanced exploration projects that have closure plans	100%	100%	100%	100%	100%
Overall financial provision representing the present value of future cash flows relating to estimated closure costs per Canadian Generally Accepted Accounting Principles (000s)	\$276,402	\$467,800	\$343,132	\$302,116	\$202,024
<b>Report whether operations have implemented local community engagement, impact assessments and development programs in line with the Stakeholder Engagement Standard</b>					
Manitoba	Partial <sup>1</sup>	Yes	Yes	Yes	Yes
Arizona	Yes	Yes	Yes	Yes	Yes
Peru	Yes	Yes	Yes	Yes	Yes
Chile	Yes	Yes	Yes	Yes	Yes
<b>Report whether operations are taking place in or adjacent to Indigenous peoples' territories</b>					
Manitoba	Yes	Yes	Yes	Yes	Yes
Arizona	Yes	Yes	Yes	Yes	Yes
Peru	Yes	Yes	Yes	Yes	Yes
Chile	N/ap	N/ap	N/ap	Yes	Yes
<b>Artisanal/small-scale and informal mining</b>					
Manitoba	No artisanal/ small-scale or informal mining	No artisanal/ small-scale or informal mining	No artisanal/ small-scale or informal mining	No artisanal/ small-scale or informal mining	No artisanal/ small-scale or informal mining
Arizona	No artisanal/ small-scale or informal mining	No artisanal/ small-scale or informal mining	No artisanal/ small-scale or informal mining	No artisanal/ small-scale or informal mining	No artisanal/ small-scale or informal mining
Peru	Yes <sup>2</sup>	Yes	Yes	Yes	Yes
Chile	Yes <sup>3</sup>	Yes	Yes	Yes	Yes

<sup>1</sup> While the Manitoba Business Unit was recognized with PAR Silver for our approach to Indigenous engagement and we had extensive engagement with our local communities, we concluded that our overall management of stakeholder engagement did not meet our objective of earning a TSM 'A' rating.

<sup>2</sup> Informal mining at Pampacancha has ended through negotiations with the community and miners. Informal mining is taking place on some of our mineral claim areas for which we do not control surface rights, but this is not in the vicinity of or impacting our operations.

<sup>3</sup> Artisanal mining continues to be active adjacent to the Trilco camp.

Environment	2022	2021	2020	2019	2018
<b>Direct energy consumption by primary energy source (terajoules)</b>					
Propane	749 <sup>1</sup>	544	624	615	793
Diesel	2,062	1,815	1,393	1,794	1,778
Gasoline	19	19	15	15	15
Other	0	0	0	0	0
Total	2,830	2,378	2,031	2,424	2,586
<b>Direct energy consumption by business unit (terajoules)</b>					
Manitoba	962	760	846	844	1,095
Peru	1,853	1,618	1,185	1,579	1,485
<b>Indirect energy consumption by business unit (terajoules)</b>					
Manitoba	1,843	3,222	3,422	3,381	3,289
Peru	2,553	2,555	2,300	2,523	2,530
Total electricity consumed	4,396	5,777	5,722	5,905	5,820
<b>Indirect energy sold/credits (terajoules)</b>					
Electricity	0.00	0.00	0.00	0.84	0.42
<b>Total indirect energy consumed by organization (terajoules)</b>	4,396	5,777	5,722	5,904	5,819
<b>Energy intensity (terajoules per kilotonne of metal in concentrate and cast zinc)</b>	36 <sup>2</sup>	29	24	23	23
<b>Total direct and indirect greenhouse gas emissions (kilotonnes of CO<sub>2</sub>e equivalent)</b>					
Direct CO <sub>2</sub> e emissions					
Manitoba	61	48	53	53	69
Peru	149	130	92	110	103
Total direct CO <sub>2</sub> e emissions	210	178	144	161	170
Indirect CO <sub>2</sub> e emissions <sup>3</sup>					
Manitoba	1	3	3	3	3
Peru	123	123	132	139	140
Total indirect CO <sub>2</sub> e emissions	124	126	135	142	143
Total	333	304	279	303	313

<sup>1</sup> Increase in propane usage is largely a result of weather in northern Manitoba. Longer periods of cold were experienced in March of 2022 than in 2021, requiring the operations to be heated, so despite the operational closure in June, more propane was required in the first half of the year.

<sup>2</sup> Our energy intensity increase is a result of the colder weather in northern Manitoba, paired with the closure of our Flin Flon operations.

<sup>3</sup> We report location-based energy consumption, not market-based. A location-based method reflects the average emissions intensity of grids on which energy consumption occurs (using mostly grid-average emission factor data).

Environment	2022	2021	2020	2019	2018
<b>GHG intensity (tonnes of GHG emissions per kilotonne of metal in concentrate)</b>	<b>2.07</b>	1.57 <sup>1</sup>	1.30	1.17 <sup>1</sup>	1.16 <sup>1</sup>
<b>NO<sub>x</sub>, SO<sub>x</sub> and other significant air emissions (in kilotonnes)</b>					
NO <sub>x</sub> , SO <sub>x</sub>					
MBU	<b>0.00</b>	0.00	0.00	0.00	0.00
Peru	<b>0.00</b>	0.00	0.00	0.00	0.00
Arizona	<b>0.00</b>	0.00	0.00	0.00	0.00
Total	<b>0.00<sup>2</sup></b>	0.00	0.00	0.00	0.00
Particulate					
MBU	<b>0.37</b>	0.69	0.43	0.65	0.54
Peru	<b>0.00</b>	0.00	N/av	N/av	N/av
Arizona	<b>0.00</b>	0.00	0.00	0.00	0.00
Total	<b>0.37<sup>3</sup></b>	0.69	0.43	0.65	0.54
<b>Total water withdrawal (000 cubic metres)</b>					
Surface water	<b>6,317</b>	11,478	12,093	12,693	13,770
Groundwater	<b>5,190</b>	4,704	4,540	4,144	4,155
Rainwater collected directly and stored by the organization	<b>7,223</b>	8,479	7,705	5,093	6,193
Waste water from another organization	<b>0.00</b>	0.00	0.00	0.00	0.00
Municipal water supplies	<b>0.25</b>	0.20	0.08	0.14	0.01
Total water withdrawal	<b>18,730</b>	24,661	24,338	21,930	24,118
<b>Percentage and total volume of water recycled and reused</b>					
Total volume (000 cubic metres)	<b>64,885<sup>4</sup></b>	59,242	57,474	71,911	N/av
Percentage	<b>78%</b>	71%	70%	77%	N/av

<sup>1</sup> In our review process for the 2022 Report, we identified and corrected errors in the GHG summary information.

<sup>2</sup> We have had zero SO<sub>x</sub> emissions from stationary sources since we closed the smelter in Manitoba in 2010.

<sup>3</sup> In Manitoba, we collect and report on fugitive dust. Collection and reporting at the same level of detail is not required in Peru. Ambient monitoring is conducted and confirmed to be in compliance with regulatory requirements, but total particulate release data is not collected.

<sup>4</sup> We have changed the calculation of water recycled to reflect the proportion of process water that is considered recycled water.

Environment	2022	2021	2020	2019	2018
<b>Total water discharged (000 cubic metres)</b>					
To Flin Flon Creek/Ross Lake/Schist Lake	8,241	11,521	14,342	12,501	15,897
To Anderson Creek/Wekusko Lake	2,411	1,685	4,370	4,384	4,384
To Woosey Creek/Morgan Lake	1,398	1,462	1,824	1,670	1,670
Namew Lake	30	40	35	30	30
Herblet Lake	435	473	576	595	5
To ground	0	0	0	0	181
To Chilloroya River (Peru)	2,591	2,445	1,981	862	1,358
Total water discharged	15,106 <sup>1</sup>	17,627	23,128	20,041	23,526
<b>Total number of significant spills<sup>2</sup></b>	0	0	1	0	0
Volume (liquid)(m <sup>3</sup> )	0	0	50	0	0
Volume (solid)(tonnes)	0	0	0	0	0
<b>Hazardous waste disposed of at external facility (tonnes)</b>	726	660	468	926	1,166
<b>Total amounts of waste (tonnes)</b>					
Overburden	116,237	299,498	65,738	256,454	258,288
Waste rock	38,700,044	35,408,474	23,992,684	37,005,883	37,055,344
Tailings	31,120,463	31,694,502	28,044,090	33,211,879	32,457,474
<b>Total amounts of waste recycled (tonnes)</b>					
Waste rock used as backfill	0	0	2,770	19,530	157,622
Waste rock used for tailings structures	5,528,824	6,783,750	9,385,125	10,508,423	13,098,446
Tailings used for backfill	722,570	726,428	688,613	738,743	564,212
Total	6,835,124	7,510,178	10,076,508	11,266,696	13,820,280
<b>Number of fines or sanctions for non-compliance with environmental laws and regulations</b>	1 <sup>3</sup>	2	0	6	0

<sup>1</sup> All discharged water is treated according to regulatory water quality requirements prior to discharge.

<sup>2</sup> We define a significant spill as anything that causes a moderate or higher impact on the physical or biological environment, which may include limited impairment of ecosystem function, impact to surface or groundwater, or impact to drinking water supply.

<sup>3</sup> Construction/modification of components was undertaken in Peru without proper environmental certification.

Environment	2022	2021	2020	2019	2018
<b>Land use (hectares) – mineral tenure</b>					
Manitoba and Saskatchewan	645,861	505,908	603,506	518,030	241,810
Nunavut	21	21	21	21	21
Total Canada	645,882	505,908	603,527	518,051	241,831
Arizona	11,619	11,575	11,532	7,284	7,284
Nevada	14,394	14,394	14,394	0	0
New Mexico	1,917	1,917	1,917	0	0
Total USA	27,929	28,960	16,311	0	7,284
Chile	1,531	1,531	1,531	1,531	263,900
Peru	161,245	160,845	160,754	139,496	99,736
Total South/Central America	162,776	9,462	162,285	141,027	363,636
Total	836,587	515,371	782,123	659,078	612,751
<b>Land use (hectares) – surface rights</b>					
Manitoba and Saskatchewan	7,819	7,724	7,718	7,711	7,647
Nunavut	0	0	0	0	0
Total Canada	7,819	7,724	7,718	7,711	7,647
Arizona	3,646	3,251	3,249	0	0
Nevada	86	86	86	0	0
New Mexico	0	0	0	0	0
Total USA	3,731	4,347	3,335	0	0
Chile	0	0	0	0	0
Peru	9,462	9,462	9,462	7,700	1,524
Total South/Central America	9,462	9,462	9,462	7,700	1,524
Total	21,013	21,533	20,516	15,411	9,172

Environment	2022	2021	2020	2019	2018
<b>Land use (hectares) – disturbed land</b>					
Manitoba and Saskatchewan	1,649	N/av	N/av	N/av	N/av
Nunavut	0	0	0	0	0
Total Canada	1,649	N/av	N/av	N/av	N/av
Arizona	251	N/av	N/av	N/av	N/av
Nevada	0	N/av	N/av	N/av	N/av
New Mexico	0	N/av	N/av	N/av	N/av
Total USA	251	N/av	N/av	N/av	N/av
Chile	N/av	0	0	0	0
Peru	1,790	1,709	1,620	1,591	N/av
Total South/Central America	1,790	1,709	1,620	1,591	N/av
Total	3,690	1,709	1,620	1,591	N/av
<b>Sites requiring biodiversity management plans</b>					
Number of sites legally requiring plans	2	2	2	2	2
Percentage of sites with legally required plans in place	100%	100%	100%	100%	100%
Number of sites with voluntary plans in place	2	2	1	1	1
<b>Habitats protected or restored (hectares)</b>					
Protected	49 <sup>1</sup>	49	49	N/av	N/av
Restored	88	107	84	25	1
Partnerships exist	No	No	No	Yes	Yes
Status at close of reporting period	Monitoring	Monitoring	Monitoring	Monitoring	Monitoring
<b>IUCN Red List species and National Conservation List species</b>					
Critically endangered	3	2	2	3	3
Endangered	7	11	6	6	5
Vulnerable	23	26	26	29	25
Near threatened	32	16	24	24	22
Least concern	329	351	342	388	89

<sup>1</sup> Hudbay Peru owns the surface rights to Distichia Wetland.