



Environment
Canada

Environnement
Canada

Summary Review of Performance of Metal Mines

Subject to the *Metal Mining Effluent Regulations*
in 2008

1/MM/18 – March 2010
Mining Section
Mining and Processing Division
Public and Resources Sectors Directorate
Environmental Stewardship Branch
Environment Canada



Canada 

Library and Archives Canada Cataloguing in Publication

Summary review of performance of metal mines subject to the Metal Mining Effluent Regulations in 2008.

Annual

EPS MM/18

Issued also in French under title: Évaluation sommaire de la performance des mines de métaux assujetties au Règlement sur les effluents des mines de métaux en 2008.

Available also on the Internet.

ISSN: 1914-2021

ISBN 978-1-100-13493-2

Cat. no.: En49-15/18E

1. Mineral industries--Waste disposal--Canada--Statistics--Periodicals.
2. Mineral industries--Environmental aspects--Canada--Statistics--Periodicals.
3. Water--Pollution--Canada--Statistics--Periodicals. 4. Effluent quality--Canada--Evaluation--Statistics--Periodicals. I. Canada. Environment Canada. Minerals and Metals Branch.

TD428.M47R36

363.739'463



READERS' COMMENTS

Comments and inquiries about the content of this summary review should be addressed to:

Mining Section
Mining and Processing Division
Public and Resources Sectors Directorate
Environmental Stewardship Branch
Environment Canada
Ottawa, Ontario
Canada K1A 0H3

REVIEW NOTICE

This performance summary of metal mines subject to the *Metal Mining Effluent Regulations* (MMER) has been reviewed by officials of the Mining Section, Environment Canada, and approved for public release. Approval does not necessarily signify that the contents reflect the views and policies of Environment Canada.

The data used in this summary review were provided to Environment Canada under section 22 of the MMER, which requires mines to submit annual reports to Environment Canada. The data were compiled by staff of the Mining Section of Environment Canada and are presented as provided by the mines from their submitted annual reports. In some cases, quarterly reports were used by Environment Canada staff to complete missing information that was not properly reported by the owners or operators of some mines.

This summary has been compiled to inform the regulated community, other stakeholders and the interested public on the performance of mines subject to the MMER in 2008. The material has been prepared for informational purposes only. For all purposes of interpreting and applying the law, users should consult the *Metal Mining Effluent Regulations*, as registered by the Clerk of the Privy Council and published in Part II of the *Canada Gazette*.

ABSTRACT

This review summarizes the performance of Canadian metal mines with respect to selected standards prescribed by the *Metal Mining Effluent Regulations* (MMER), which were registered on June 6, 2002, and came fully into force on December 6, 2002.

This is the sixth annual summary of performance with respect to the MMER. In addition to detailed mine effluent quality data, the report includes various tables and graphs synthesizing the compliance data based on exceedances, jurisdictions and mining subsectors. Summary tables are also provided on the same basis for both rainbow trout acute lethality and *Daphnia magna* monitoring tests. This performance review of mines is limited in that it does not include an overview of the main requirements of the MMER. The electronic version of this summary review will be available through Environment Canada's online publications catalogue at www.ec.gc.ca. Alternatively, you can request an electronic version of this report in PDF format by contacting:

Inquiry Centre
Tel.: 819-997-2800 or 1-800-668-6767
Fax: 819-994-1412
Email: enviroinfo@ec.gc.ca

RÉSUMÉ

La présente évaluation sommaire porte sur la performance des mines de métaux canadiennes et repose sur certaines normes prescrites par le *Règlement sur les effluents des mines de métaux* (REMM), lequel a été enregistré le 6 juin 2002 et est entré en vigueur dans son ensemble le 6 décembre 2002.

Elle constitue la sixième évaluation sommaire annuelle de la performance relativement au REMM. Outre des données détaillées sur la qualité des effluents, le rapport comprend divers tableaux et graphiques dans lesquels les données sur la conformité sont résumées, selon les dépassements, la province ou le territoire et le sous-secteur minier. Il comprend également des tableaux sommaires dans lesquels on présente de la même manière les résultats des essais de détermination de la létalité aiguë chez la truite arc-en-ciel et des essais de suivi avec bioessais sur la *Daphnia magna*. La portée de la présente évaluation sommaire est limitée, c'est-à-dire qu'elle ne renferme aucun aperçu des principales exigences figurant dans le REMM. La version électronique de cette évaluation sommaire sera disponible à partir du répertoire des publications en ligne d'Environnement Canada à l'adresse www.ec.gc.ca. Vous pouvez aussi obtenir une copie électronique de ce rapport en format PDF en vous adressant à :

Informathèque

Tél. : 819-997-2800 ou 1-800-668-6767

Télec. : 819-994-1412

Courriel : enviroinfo@ec.gc.ca

TABLE OF CONTENTS

Abstract	iii
Summary	1
Overall Compliance Assessment for Prescribed Deleterious Substances and pH in 2008.....	2
Overall Assessment of Results of Rainbow Trout Acute Lethality and <i>Daphnia magna</i> Monitoring Tests in 2008.....	2
Comparison of Performance of Metal Mines in 2007 and 2008	3
References	12
List of Acronyms and Abbreviations	13

LIST OF APPENDICES

Appendix A: Extended Transitional Authorizations Granted Pursuant to Section 35 of the Metal Mining Effluent Regulations	15
Appendix B: Mining Facilities Subject to the <i>Metal Mining Effluent Regulations</i> in 2008	16
Appendix C: Mining Companies Included in the Assessment in 2008	22
Appendix D: Performance Summary of Mine Effluents in 2008	23
Appendix E: Effluent Quality Data for Mines in 2008.....	38

LIST OF TABLES

Table 1: Mining Facilities Subject to the <i>Metal Mining Effluent Regulations</i> in 2008	6
Table 2: Distribution of Facilities and Final Discharge Points by Jurisdiction in 2008...	7
Table 3: Distribution of Final Discharge Points per Facility in 2008	7
Table 4: Summary of Transitional Authorizations Granted Pursuant to Section 35 of the <i>Metal Mining Effluent Regulations</i>	8
Table 5: Compliance Summary for Prescribed Deleterious Substances and pH in 2008	8
Table 6: Performance Summary for Facilities without Transitional Authorizations in 2008	8
Table 7: Performance Summary for Facilities with Transitional Authorizations in 2008	8
Table 8: Distribution of Exceedances by Jurisdiction in 2008: Facilities without Transitional Authorizations	9
Table 9: Distribution of Exceedances by Jurisdiction in 2008: Facilities with Transitional Authorizations	10
Table 10: Distribution of Exceedances by Mining Subsector in 2008: Facilities without Transitional Authorizations.....	10
Table 11: Distribution of Exceedances by Mining Subsector in 2008: Facilities with Transitional Authorizations	10
Table 12: Performance Summary: Rainbow Trout Acute Lethality and <i>Daphnia magna</i> Monitoring Tests, by Jurisdiction in 2008.....	11
Table 13: Performance Summary: Rainbow Trout Acute Lethality and <i>Daphnia magna</i> Monitoring Tests, by Mining Subsector in 2008	11

LIST OF FIGURES

Figure 1: Location of Mining Facilities Subject to the <i>Metal Mining Effluent Regulations</i> in 2008.....	7
Figure 2: Distribution of Facilities by Jurisdiction for which Exceedances Were Reported in 2008: All Facilities.....	9
Figure 3: Distribution of Exceedances by Jurisdiction in 2008: All Facilities	9

SUMMARY

This review summarizes the performance of Canadian metal mines with respect to the selected standards prescribed by the *Metal Mining Effluent Regulations* (MMER), which came fully into force on December 6, 2002.

The MMER require sampling of effluent and the submission of quarterly and annual reports of results within specified time limits. The data used in this review were provided to Environment Canada under section 22 of the MMER, which requires mines to submit annual reports to Environment Canada. The format for these reports is specified in Schedule 6 of the MMER. The reports include

- monthly mean concentrations for metals and total suspended solids;
- monthly pH range; and
- summary results of rainbow trout acute lethality tests and *Daphnia magna* monitoring tests.

In 2008, 98 mining facilities operating in Canada were subject to the MMER. No metal mines were subject to the MMER in Alberta or Prince Edward Island. Those facilities subject to the MMER are listed in Table 1 and their locations are illustrated in Figure 1. Additional information on the facilities is provided in Appendix B.

OVERALL COMPLIANCE ASSESSMENT FOR PRESCRIBED DELETERIOUS SUBSTANCES AND pH IN 2008

- Overall, the metal mining sector is achieving over 99% compliance with the prescribed limits for arsenic, copper, cyanide, nickel, zinc, radium 226 and pH, and a 100% compliance rate for lead.
- Only a few sporadic exceedances were reported for arsenic, copper, cyanide and zinc.
- For the first year since the MMER came into force in 2002, cyanide exceedances were reported by two mines: Caribou Mine and Eagle River Mill.
- Tio Mine exceeded for nickel on multiple occasions, as did Bucko Lake Mine for radium 226, and Podolsky Mine for pH.
- In 2008, the overall compliance rate achieved by the metal mining sector with respect to meeting the total suspended solids limits was 93.8%. Bucko Lake Mine, Complexe métallurgique Sorel-Tracy, Iron Ore Company of Canada – Carol Project, Santoy 7 Mine, Troilus Mine and Wabush Mines Joint Venture – Scully Mine failed to consistently meet total suspended solids limits.

OVERALL ASSESSMENT OF RESULTS OF RAINBOW TROUT ACUTE LETHALITY AND *DAPHNIA MAGNA* MONITORING TESTS IN 2008

- Overall, the metal mining sector has achieved a compliance rate of 95.5% with respect to effluent that is non-acutely lethal to rainbow trout.
- In 91.6% of *Daphnia magna* monitoring tests, the mortality rate was less than 50%.

COMPARISON OF PERFORMANCE OF METAL MINES IN 2007 AND 2008

- In 2008, 4 additional mines were subject to the MMER (i.e., 98 facilities in 2008 compared with 94 in 2007).
- In 2008, 181 final discharge points were subject to the MMER, compared with 171 in 2007.
- In 2008, the total number of exceedances increased to 130 from 103 in 2007.
- As was the case in 2007, metal mines achieved a 100% compliance rate for lead in 2008. Compliance rates for cyanide and radium 226 dropped slightly from the 100% reported in 2007 to 99.2% and 99.1% respectively.
- Tio Mine exceeded for nickel on multiple occasions, as did Bucko Lake Mine for radium 226, and Podolsky Mine for pH.
- For the first time since the MMER came into force in 2002, cyanide exceedances were reported by two mines: Caribou Mine and Eagle River Mill.
- The overall compliance rate for total suspended solids remained about the same in 2008, i.e., 93.8% compared to 93.7% in 2007. Although most total suspended solids exceedances reported were sporadic, a limited number of facilities seemed to have chronic exceedances for at least one of their effluents in 2008. Bucko Lake Mine, Complexe métallurgique Sorel-Tracy, Iron Ore Company of Canada – Carol Project, Santoy 7 Mine, Troilus Mine and Wabush Mines Joint Venture – Scully Mine reported numerous effluent exceedances for total suspended solids.
- In 2008, the compliance rate for non-acutely lethal effluents to rainbow trout was 95.5%, compared with 97% in 2007. The low compliance rate achieved by Voisey's Bay Mine – Mill contributed to decreasing the overall compliance rate of the sector.
- Between 2007 and 2008, a slight decrease was observed in *Daphnia magna* monitoring tests. In 91.6% of the tests, the mortality rate was less than 50% in 2008, compared with 92.8% in 2007.

The data were compiled by the Mining Section of Environment Canada. Except where noted, data are generally presented as provided by the owners or operators of the mines in their submitted annual reports. Occasionally, quarterly reports were used to correct or complete missing information that had not been properly reported by the owner or operator of a mine. For these facilities, a comment was added in the appropriate summary tables presented in Appendix E to identify which missing information had not been submitted as part of the annual report.

Pursuant to sections 9 and 10 of the MMER, 181 final discharge points were identified as being subject to the MMER. The distribution of facilities and final discharge points per jurisdiction is shown in Table 2. The number of final discharge points per facility ranged from 1 to 10, as illustrated in Table 3. Reported data indicate that 71 final discharge points had continuous discharge, 77 had intermittent discharge and 33 did not have any discharge in 2008.

Transitional authorizations (TAs) that were granted to facilities on December 6, 2002, expired on December 6, 2004. However, pursuant to section 35, extended TAs for total suspended solids were granted to three facilities (reference Table 4). These extended authorizations applied to six final discharge points and were valid until June 6, 2007. However, the MMER were amended on June 21, 2007, to re-issue these TAs, which expired on December 6, 2008 (see Appendix A for details).

The tables presented in Appendix D summarize the effluent quality data for mines subject to the MMER in 2008. Table D1 summarizes the distribution of the non-compliant parameters for metals and pH, whereas Table D2 summarizes the results of rainbow trout acute lethality tests and *Daphnia magna* monitoring tests. Data for each individual final discharge point for mines subject to the MMER in 2008 are listed in Appendix E.

Overall, the metal mining sector achieved over 99% compliance with the prescribed limits for metals, cyanide and pH. Only a few sporadic exceedances were reported for arsenic, copper, cyanide and zinc. Metal mines achieved 100% compliance for prescribed limits for lead. One mine reported a high number of exceedances for nickel, a second one for radium 226, and a third one for pH. Some mines were challenged to routinely meet total suspended solids limits, and the overall compliance rate was 93.8% (Table 5).

With respect to rainbow trout acute lethality tests, the metal mining sector has achieved a non-acutely lethal effluent compliance rate of 95.5%. In 91.6% of *Daphnia magna* monitoring tests, the mortality rate was less than 50%. The MMER do not require effluents from metal mines to be non-acutely lethal to *Daphnia magna*. The addition of this species to the definition of acutely lethal effluent will be considered once sufficient data are available.

In 2008, 130 exceedances of the prescribed limits for metals and pH were reported (Tables 6 and 7). Total suspended solids exceedances accounted for 62.3% of the total, metals for 22.3% of the total, and pH for 15.4% of the total. Sixty-five facilities complied with the maximum authorized monthly mean concentrations and pH at all times. Twenty-eight facilities reported at least one exceedance in 2008. One facility for which TAs were granted exceeded its TA limits. Figure 2 shows the distribution, by jurisdiction, of all the facilities subject to the MMER in 2008, as well as the number of facilities for which exceedances were reported. The distribution of exceedances by jurisdiction is shown in Figure 3.

The distribution of exceedances that were reported in 2008 per jurisdiction is as follows:

- 36.9% occurred from facilities located in Newfoundland and Labrador;
- 32.3% occurred from facilities located in Quebec;
- 9.2% occurred from facilities located in Ontario;
- 9.2% occurred from facilities located in Manitoba;
- 6.2% occurred from facilities located in British Columbia;
- 3.1% occurred from facilities located in Saskatchewan;
- 1.5% occurred from facilities located in New Brunswick;
- 0.8% occurred in Yukon; and
- 0.8% occurred in Nova Scotia.

No exceedance was reported from mines located in Northwest Territories or Nunavut (Tables 8 and 9).

The distribution of exceedances by mining subsector is presented in Tables 10 and 11. The iron ore subsector accounted for 45.4% of all exceedances, the base metals subsector for 36.1%, and the precious metals subsector for 18.5%. No exceedances were reported from the uranium subsector.

In 2008, 42 tests from 13 facilities were reported to be acutely lethal to rainbow trout (Table 12). Of those, 54.7% were from facilities located in Newfoundland and Labrador, 14.3% in Saskatchewan, 14.3% in Quebec, 11.9% in New Brunswick, 2.4% in Ontario and 2.4% in British Columbia. None of the effluent tested in Yukon, Manitoba, Northwest Territories, Nunavut or Nova Scotia was acutely lethal to rainbow trout. On a sectoral basis, 69% were from the base metals subsector, 21.4% from the precious metals subsector, 4.8% from the iron ore subsector, and 4.8% from the uranium subsector (Table 13).

In 2008, 78 tests from 22 facilities had a *Daphnia magna* mortality rate greater than 50% (Table 12). Newfoundland and Labrador had the highest percentage (55.1%) of tests in which *Daphnia magna* mortality was greater than 50%, followed by Manitoba (12.8%), Quebec (11.6%), New Brunswick (7.7%), British Columbia (6.4%), Ontario (3.8%), Nova Scotia (1.3%) and Saskatchewan (1.3%); Yukon, Northwest Territories and Nunavut had no *Daphnia magna* mortality rate greater than 50%. On a sectoral basis, 89.7% were from the base metals subsector, 9% from the precious metals subsector, 1.3% from the iron ore subsector, and none from the uranium subsector (Table 13).

The MMER are enforced by Environment Canada in accordance with the provisions of the Compliance and Enforcement Policy for the Habitat Protection and Pollution Prevention Provisions of the *Fisheries Act*. Enforcement personnel administer the provisions and accompanying regulations with an emphasis on preventing harm to fish, fish habitat or human use of fish caused by physical alteration or pollution of waters frequented by fish.

In verifying compliance with the MMER, inspectors abide by the Enforcement and Compliance Policy, which sets out a range of possible responses to offenses, including warnings, inspector's directions, ticketing, ministerial orders, injunctions, prosecution and civil suits by the Crown for the recovery of costs. If an inspector confirms that an infraction has been committed, the inspector will select the appropriate response based on the following criteria: nature of the offense; effectiveness in achieving the desired result with the offender; and consistency.

Table 1: Mining Facilities Subject to the *Metal Mining Effluent Regulations* in 2008

Facility	Jurisdiction	
1	Myra Falls Operations	British Columbia
2	Endako Mines	British Columbia
3	Huckleberry Mine	British Columbia
4	Eskay Creek Mine	British Columbia
5	Kemess South Mine	British Columbia
6	MAX Molybdenum Mine and Mill	British Columbia
7	Minto Project	Yukon
8	Key Lake Operation	Saskatchewan
9	McArthur River Operation	Saskatchewan
10	Cigar Lake Project	Saskatchewan
11	McClellan Lake Operation	Saskatchewan
12	Rabbit Lake Operation	Saskatchewan
13	Seabee Mine	Saskatchewan
14	Santoy 7 Mine	Saskatchewan
15	Konuto Lake Mine	Saskatchewan
16	Flin Flon Complex	Manitoba
17	Trout Lake Mine	Manitoba
18	Chisel North Mine	Manitoba
19	Snow Lake Mill	Manitoba
20	Birchtree Mine	Manitoba
21	Thompson Complex	Manitoba
22	Bucko Lake Mine	Manitoba
23	New Britannia Mine	Manitoba
24	Tanco Mine	Manitoba
25	Rice Lake Gold Mine	Manitoba
26	Cantung Mine	Northwest Territories
27	Con Mine	Northwest Territories
28	Giant Mine	Northwest Territories
29	Lupin Operations	Nunavut
30	Red Lake Mine	Ontario
31	Campbell Mine	Ontario
32	Musselwhite Mine	Ontario
33	Lac des Iles Mine	Ontario
34	Golden Giant Mine	Ontario
35	Williams Mine	Ontario
36	Eagle River Mine	Ontario
37	Eagle River Mill	Ontario
38	Island Gold Project	Ontario
39	Porcupine Gold Mines	Ontario
40	Holloway Mine	Ontario
41	Clavos Mine	Ontario
42	Hislop Mine	Ontario
43	Stock Mine and Mill Complex / Black Fox Mill Complex	Ontario
44	Black Fox Mine	Ontario
45	Redstone Mine	Ontario
46	McWatters Mine	Ontario
47	Kidd Mining Division	Ontario
48	Kidd Metallurgical Division	Ontario
49	Montcalm Project	Ontario
50	Macassa Mine	Ontario

Facility	Jurisdiction	
51	McAlpine Mill	Ontario
52	Lockerby Mine	Ontario
53	Strathcona Tailings Treatment System	Ontario
54	Copper Cliff Complex	Ontario
55	Garson Mine	Ontario
56	Totten Mine	Ontario
57	Podolsky Mine	Ontario
58	Haley Plant	Ontario
59	Langlois (Mine)	Quebec
60	Matagami (Mine) / Xstrata Zinc Canada Division	Quebec
61	Casa Berardi (Mine)	Quebec
62	Géant Dormant (Mine)	Quebec
63	Barry	Quebec
64	Bouchard-Hébert (Mine)	Quebec
65	Laronde (Mine)	Quebec
66	Lapa (Project)	Quebec
67	Mouska (Mine)	Quebec
68	Doyon	Quebec
69	Kiena (Mine)	Quebec
70	Malartic (Mill)	Quebec
71	Sigma	Quebec
72	Goldex (Mine)	Quebec
73	Beaufor	Quebec
74	Camflo (Mill)	Quebec
75	Croinor (Mine)	Quebec
76	Lac Herbin	Quebec
77	Fabie (Mine)	Quebec
78	Horne (Smelter)	Quebec
79	Principale (Camchib)	Quebec
80	Joe Mann	Quebec
81	Copper Rand (Mine)	Quebec
82	Troilus	Quebec
83	Raglan (Mine)	Quebec
84	Niobec (Mine)	Quebec
85	Complexe métallurgique Sorel-Tracy	Quebec
86	Tio (Mine)	Quebec
87	Mont-Wright (Mine)	Quebec
88	Fire Lake (Mine)	Quebec
89	Wabush (Scully Mine)	Newfoundland and Labrador
90	Iron Ore Company of Canada – Carol Project	Newfoundland and Labrador
91	Nugget Pond Mine	Newfoundland and Labrador
92	Pine Cove Mine	Newfoundland and Labrador
93	Duck Pond Mine	Newfoundland and Labrador
94	Voisey's Bay Mine – Mill	Newfoundland and Labrador
95	Brunswick No. 12	New Brunswick
96	Caribou Mine – Mill	New Brunswick
97	Restigouche Mine	New Brunswick
98	Scozinc Mine – Mill	Nova Scotia

Note: Numbers in the first column refer to the numbers in Figure 1.

Figure 1: Location of Mining Facilities Subject to the *Metal Mining Effluent Regulations* in 2008

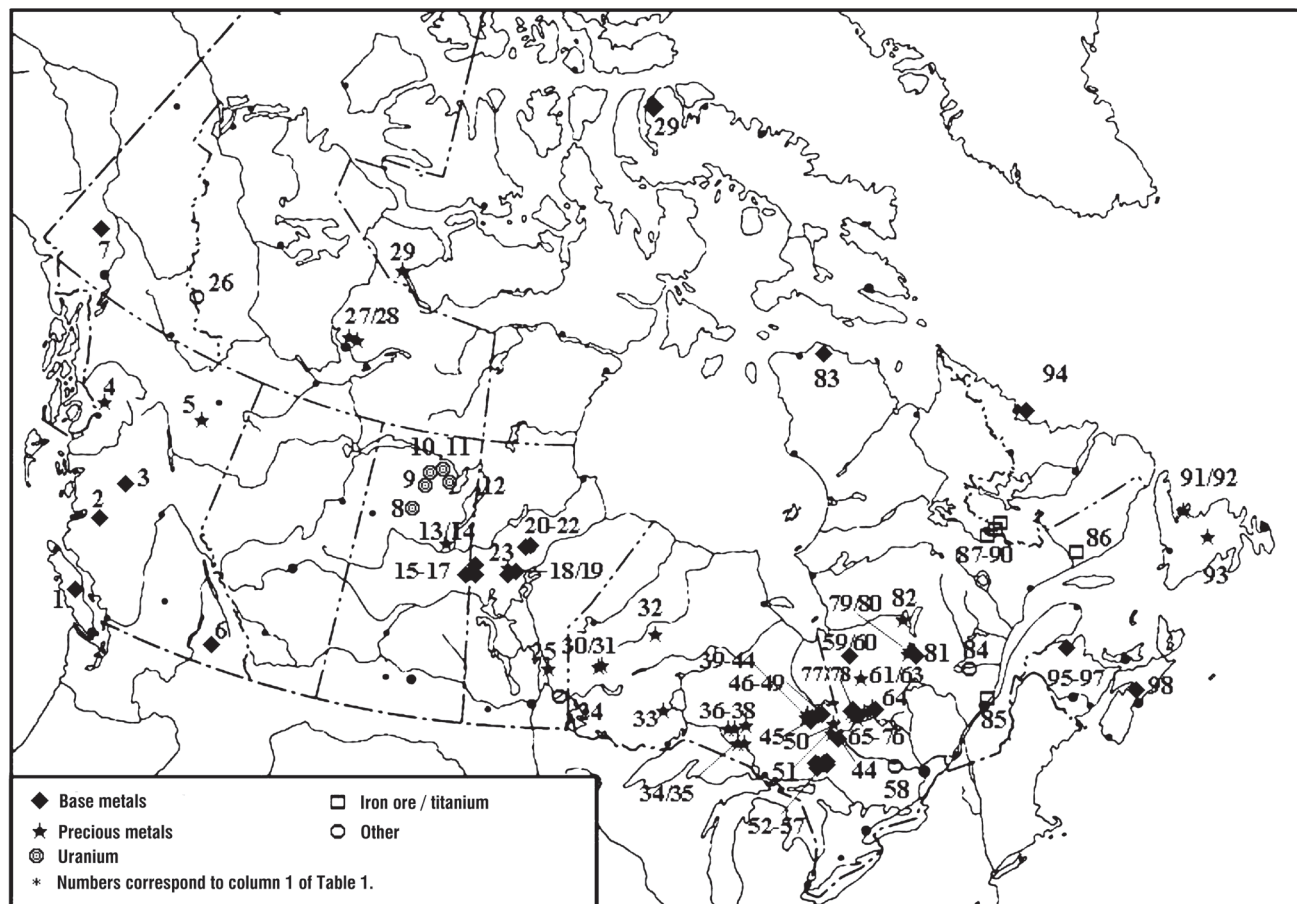


Table 2: Distribution of Facilities and Final Discharge Points by Jurisdiction in 2008

Jurisdiction	Number of Facilities	Number of Final Discharge Points
British Columbia	6	19
Yukon	1	1
Saskatchewan	8	15
Manitoba	10	12
Northwest Territories	3	5
Nunavut	1	1
Ontario	29	46
Quebec	30	50
New Brunswick	3	3
Newfoundland and Labrador	6	27
Nova Scotia	1	2
Total	98	181

Table 3: Distribution of Final Discharge Points per Facility in 2008

Number of Final Discharge Points	Number of Facilities
1	65
2	12
3	11
4	2
5	3
6	2
7	2
10	1

Table 4: Summary of Transitional Authorizations Granted Pursuant to Section 35 of the *Metal Mining Effluent Regulations*

Substance / Parameter	From December 7, 2004, to December 6, 2008	
	Number of Facilities	Number of Final Discharge Points
Total suspended solids only	3	6

Table 5: Compliance Summary for Prescribed Deleterious Substances and pH in 2008

	As	Cu	CN	Pb	Ni	Zn	TSS	Ra-226	pH Low	pH High
Number of exceedances	2	4	3	0	9	4	81	7	11	9
Total number of months for which results were reported	1159	1183	375	1159	1172	1188	1308	781	1303	1303
Compliance rate (%)	99.8	99.7	99.2	100	99.2	99.7	93.8	99.1	99.2	99.3

Table 6: Performance Summary for Facilities without Transitional Authorizations in 2008

Exceedances of Limits Prescribed in Schedule 4		
Substance / Parameter	Number of Exceedances	Number of Facilities
Arsenic	2	2
Copper	4	3
Cyanide	3	2
Lead	–	–
Nickel	9	2
Zinc	4	2
TSS	77	16
Radium 226	7	3
pH	20	10
Total	126	40

Table 7: Performance Summary for Facilities with Transitional Authorizations in 2008

Exceedances of Limits Prescribed in the Transitional Authorizations		
Substance / Parameter	Number of Exceedances	Number of Facilities
Arsenic	–	–
Copper	–	–
Cyanide	–	–
Lead	–	–
Nickel	–	–
Zinc	–	–
TSS	4	1
Radium 226	–	–
pH	–	–
Total	4	1

Figure 2: Distribution of Facilities by Jurisdiction for which Exceedances Were Reported in 2008: All Facilities

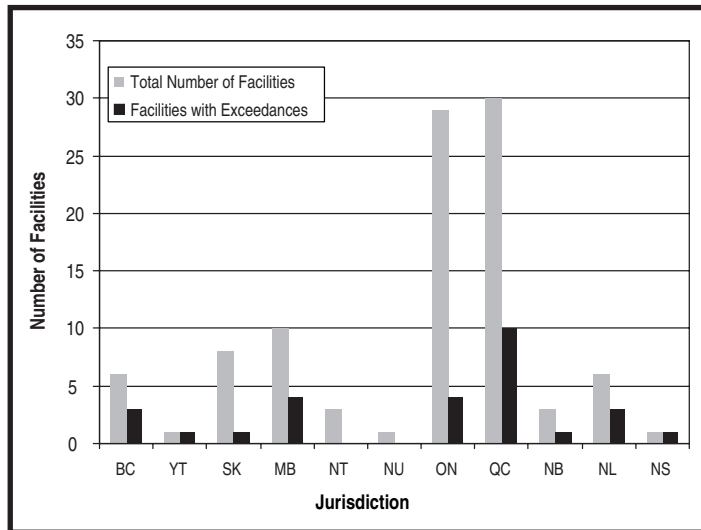


Figure 3: Distribution of Exceedances by Jurisdiction in 2008: All Facilities

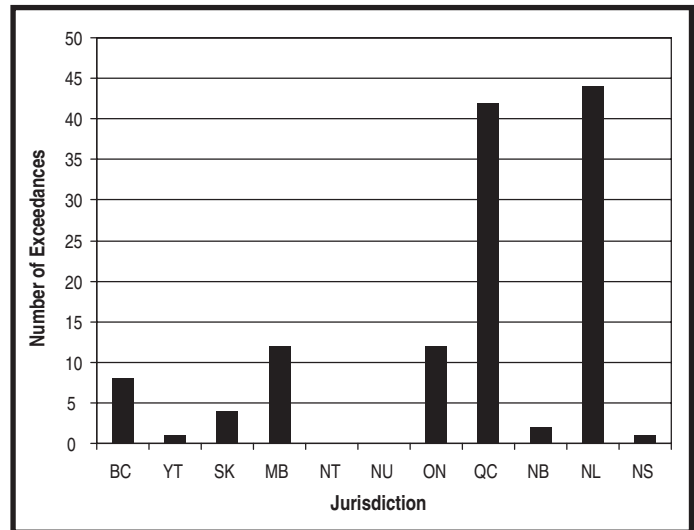


Table 8: Distribution of Exceedances by Jurisdiction in 2008: Facilities without Transitional Authorizations

Jurisdiction	As	Cu	CN	Ni	Zn	TSS	Ra-226	pH	Total	Number of Facilities
British Columbia	-	-	-	-	-	5	-	3	8	3
Yukon	-	-	-	-	-	1	-	-	1	1
Saskatchewan	-	-	-	-	-	4	-	-	4	1
Manitoba	1	-	-	-	-	4	5	2	12	4
Northwest Territories	-	-	-	-	-	-	-	-	-	-
Nunavut	-	-	-	-	-	-	-	-	-	-
Ontario	-	1	1	1	-	-	-	9	12	4
Quebec	-	-	-	8	1	28	2	3	42	10
New Brunswick	-	-	2	-	-	-	-	-	2	1
Newfoundland and Labrador	1	2	-	-	3	35	-	3	44	3
Nova Scotia	-	1	-	-	-	-	-	-	1	1
Total	2	4	3	9	4	77	7	20	126	28

Table 9: Distribution of Exceedances by Jurisdiction in 2008: Facilities with Transitional Authorizations

Jurisdiction	TSS	Number of Facilities
British Columbia	–	–
Yukon	–	–
Saskatchewan	–	–
Manitoba	–	–
Northwest Territories	–	–
Nunavut	–	–
Ontario	–	–
Quebec	–	–
New Brunswick	–	–
Newfoundland and Labrador	4	1
Nova Scotia	–	–
Total	4	1

Table 10: Distribution of Exceedances by Mining Subsector in 2008: Facilities without Transitional Authorizations

Subsector	As	Cu	CN	Ni	Zn	TSS	Ra-226	pH	Total	Number of Facilities
Base metals	–	1	2	9	1	23	6	17	59	17
Precious metals	1	1	1	–	–	20	1	–	24	9
Uranium	–	–	–	–	–	–	–	–	–	–
Iron	1	2	–	–	3	34	–	3	43	2
Total	2	4	3	9	4	77	7	20	126	28

Table 11: Distribution of Exceedances by Mining Subsector in 2008: Facilities with Transitional Authorizations

Subsector	TSS	Number of Facilities
Base metals	–	–
Precious metals	–	–
Uranium	–	–
Iron	4	1
Total	4	1

Table 12: Performance Summary: Rainbow Trout Acute Lethality and *Daphnia magna* Monitoring Tests, by Jurisdiction in 2008

Jurisdiction	Rainbow Trout Acute Lethality Tests			<i>Daphnia magna</i> Monitoring Tests		
	Total Number of Tests	>50% Mortality		Total Number of Tests	>50% Mortality	
		Number of Tests	Number of Facilities		Number of Tests	Number of Facilities
British Columbia	97	1	1	97	5	2
Yukon	12	–	–	12	–	–
Saskatchewan	62	6	2	62	1	1
Manitoba	50	–	–	50	10	3
Northwest Territories	26	–	–	26	–	–
Nunavut	–	–	–	–	–	–
Ontario	228	1	1	232	3	2
Quebec	261	6	4	261	9	9
New Brunswick	40	5	2	39	6	2
Newfoundland and Labrador	138	23	3	139	43	2
Nova Scotia	14	–	–	14	1	1
Total	928	42	13	932	78	22

Table 13: Performance Summary: Rainbow Trout Acute Lethality and *Daphnia magna* Monitoring Tests, by Mining Subsector in 2008

Subsector	Rainbow Trout Acute Lethality Tests			<i>Daphnia magna</i> Monitoring Tests		
	Total Number of Tests	>50% Mortality		Total Number of Tests	>50% Mortality	
		Number of Tests	Number of Facilities		Number of Tests	Number of Facilities
Base metals	504	29	6	504	70	14
Precious metals	304	9	4	308	7	7
Uranium	38	2	1	38	–	–
Iron	82	2	2	82	1	1
Total	928	42	13	932	78	22

REFERENCES

- Department of Fisheries and Oceans. 2002. *Metal Mining Effluent Regulations*. *Canada Gazette*, Part II. June 19, 2002. Queen's Printer for Canada.
- Environment Canada. 2000. *Biological Test Method: Reference Method for Determining Acute Lethality of Effluents to Rainbow Trout*. Environmental Protection Series. 2nd ed., December 2000. Method Development and Applications Section, Environmental Technology Centre, Environment Canada, EPS 1/RM/13.
- Environment Canada. 2000. *Biological Test Method: Reference Method for Determining Acute Lethality of Effluents to Daphnia magna*. Environmental Protection Series. 2nd ed., December 2000. Method Development and Applications Section, Environmental Technology Centre, Environment Canada, EPS 1/RM/14.
- Environment Canada. 2001. *Guidance Document for the Sampling and Analysis of Metal Mining Effluents*. Minerals and Metals Division, Environmental Protection Service, Environment Canada, EPS 2/MM/5. April 2001.
- Environment Canada. 2001. *Guidance Document for Flow Measurement of Metal Mining Effluents*. Minerals and Metals Division, Environmental Protection Service, Environment Canada, EPS 2/MM/4. April 2001.
- Environment Canada. 2009. *Summary Review of Performance of Metal Mines Subject to the Metal Mining Effluent Regulations in 2007*. Mining and Processing Division, Environmental Stewardship Branch, 1/MM/16. March 2009.

LIST OF ACRONYMS AND ABBREVIATIONS

As	arsenic
BC	British Columbia
Bq/L	becquerel(s) per litre
CN	cyanide
Cu	copper
DM	<i>Daphnia magna</i>
FDP	final discharge point
m ³	cubic metre(s)
MB	Manitoba
mg/L	milligram(s) per litre
MMER	<i>Metal Mining Effluent Regulations</i>
NB	New Brunswick
ND	no deposit
Ni	nickel
NL	Newfoundland and Labrador
NMR	no measurement required
NS	Nova Scotia
NT	Northwest Territories
NU	Nunavut
ON	Ontario
Pb	lead
QC	Quebec
Ra-226	radium 226
RT	rainbow trout
SK	Saskatchewan
TA	transitional authorization
t/d	tonne(s) per day
t/y	tonne(s) per year
TSS	total suspended solids
U ₃ O ₈	uranium oxide
YT	Yukon
Zn	zinc

Appendix A: Extended Transitional Authorizations Granted Pursuant to Section 35 of the *Metal Mining Effluent Regulations*

(from December 7, 2004, to December 6, 2008)

Facility	Final Discharge Point	Province	Allowable TSS (mg/L)
Konuto Lake Mine	Surface Sump Discharge	Saskatchewan	25
Iron Ore Company of Canada – Carol Project	Beaver Bay Discharge	Newfoundland and Labrador	2 244
Iron Ore Company of Canada – Carol Project	Old Tailings Pumphouse Discharge	Newfoundland and Labrador	4 385
Iron Ore Company of Canada – Carol Project	Ore Car Flume	Newfoundland and Labrador	15 850
Iron Ore Company of Canada – Carol Project	Main Tailings Discharge	Newfoundland and Labrador	42 160
Wabush (Scully Mine)	Tailings Discharge	Newfoundland and Labrador	807 600

Appendix B: Mining Facilities Subject to the *Metal Mining Effluent Regulations* in 2008

	Facility	Operator	Province / Territory (Location)	Products	Production Capacity	Process
1	Myra Falls Operations	NVI Mining Ltd.	British Columbia (Vancouver Island)	Copper, zinc, lead, gold, silver	4 000 t/d	Flotation
2	Endako Mines	Thompson Creek Mining Ltd.	British Columbia (west-central BC)	Molybdenum	27 000 t/d	Flotation
3	Huckleberry Mine	Huckleberry Mines Ltd.	British Columbia (central BC, southwest of Houston)	Copper, molybdenum, gold, silver	21 000 t/d	Flotation
4	Eskay Creek Mine	Barrick Gold Corporation	British Columbia (northwestern BC, east of Alaska Panhandle)	Gold, silver	300 t/d	Crushing only
5	Kemess South Mine	Northgate Minerals Corporation	British Columbia (north-central BC)	Gold, copper	49 000 t/d	Flotation
6	MAX Molybdenum Mine and Mill	Forty Two Metals Inc.	British Columbia (southeastern BC, 60 km southeast of Revelstoke)	Molybdenum	1 000 t/d (mill)	Flotation
7	Minto Project	Minto Explorations Ltd.	Yukon Territory (240 km northwest of Whitehorse)	Copper, gold, silver	Mine under development	
8	Key Lake Operation	Cameco Corporation	Saskatchewan (northern SK)	Uranium	Mill only. Annual production capacity of 18 million pounds U ₃ O ₈	Leaching and solvent extraction
9	McArthur River Operation	Cameco Corporation	Saskatchewan (northern SK)	Uranium	150 t/d	Crushing only – processed at Key Lake
10	Cigar Lake Project	Cameco Corporation	Saskatchewan (northern SK)	Uranium	Mine under development	
11	McClellan Lake Operation	AREVA Resources Canada Inc.	Saskatchewan (northeastern SK, Wollaston Lake area)	Uranium	300 t/d	Leaching and solvent extraction
12	Rabbit Lake Operation	Cameco Corporation	Saskatchewan (northeastern SK, Wollaston Lake area)	Uranium	Annual production capacity of 12 million pounds U ₃ O ₈	Leaching and solvent extraction
13	Seabee Mine	Claude Resources Inc.	Saskatchewan (northern SK)	Gold	800 t/d	Cyanidation
14	Santoy 7 Mine	Claude Resources Inc.	Saskatchewan (northern SK)	Gold		Mining only – ore shipped to Seabee Mill
15	Konuto Lake Mine	Hudson Bay Mining and Smelting Co. Ltd.	Saskatchewan (east- central SK, near Flin Flon, MB)	Copper, zinc, gold, silver, selenium, tellurium	800 t/d	Mining only – ore shipped to Flin Flon Mill
16	Flin Flon Complex	Hudson Bay Mining and Smelting Co. Ltd.	Manitoba (west-central MB, in Flin Flon)	Copper, lead, zinc	5 500 t/d	Flotation
17	Trout Lake Mine	Hudson Bay Mining and Smelting Co. Ltd.	Manitoba (west-central MB, near Flin Flon)	Copper, zinc, gold, silver	2 500 t/d	Flotation
18	Chisel North Mine	Hudson Bay Mining and Smelting Co. Ltd.	Manitoba (west-central MB, near Snow Lake)	Zinc	750 t/d	Mining only – ore shipped to Stall / Snow Lake Mill
19	Snow Lake Mill	Hudson Bay Mining and Smelting Co. Ltd.	Manitoba (west-central MB, near Snow Lake)	Copper, zinc, selenium, tellurium, silver	3 600 t/d	Flotation

Appendix B: Mining Facilities Subject to the *Metal Mining Effluent Regulations* in 2008 (cont'd)

	Facility	Operator	Province / Territory (Location)	Products	Production Capacity	Process
20	Birchtree Mine	Vale Inco Ltd.	Manitoba (northern MB, near Thompson)	Nickel, copper	3 175 t/d	Mining only – ore shipped to Thompson Complex
21	Thompson Complex	Vale Inco Ltd.	Manitoba (northern MB, in Thompson)	Nickel, copper	12 000 t/d	Flotation
22	Bucko Lake Mine	Crowflight Minerals Inc.	Manitoba (northern MB, near Thompson)	Nickel	1 000 t/d	Flotation
23	New Britannia Mine	Garson Gold Corporation	Manitoba (west-central MB, near Snow Lake)	Gold	2 200 t/d	Cyanidation
24	Tanco Mine	Tantalum Mining Corporation of Canada Ltd.	Manitoba (southeastern MB, northeast of Winnipeg)	Tantalum, lithium, cesium, rubidium	Varies by commodity	Gravity, flotation, dry grinding, leach
25	Rice Lake Gold Mine	San Gold Corporation	Manitoba (southeast MB, Red Lake area)	Gold	1 250 t/d	Gravity concentration, flotation and carbon-in-leach (cyanide)
26	Cantung Mine	North American Tungsten Corporation Ltd.	Northwest Territories (east of Yukon border)	Tungsten	3 000 t/d	Flotation
27	Con Mine	Miramar Mining Corporation	Northwest Territories (Yellowknife)	Gold	Closed	Deleted
28	Giant Mine	Indian and Northern Affairs Canada	Northwest Territories (Yellowknife)	Gold	5 800 t/month	Mining only – ore shipped to Con Mine
29	Lupin Operations	Zinifex Canada Inc.	Nunavut (western NU, northeast of Yellowknife)	Gold	On care and maintenance	
30	Red Lake Mine	Goldcorp Inc.	Ontario (northwestern ON, Red Lake area)	Gold	600 t/d	Gravity, cyanidation, flotation
31	Campbell Mine	Goldcorp Inc.	Ontario (northwestern ON, Red Lake area)	Gold	≥ 1 000 t/d	Cyanidation
32	Musselwhite Mine	Goldcorp Inc.	Ontario (northwestern ON)	Gold	3 300 t/d	Cyanidation
33	Lac des Iles Mine	North American Palladium Ltd.	Ontario (northwestern ON, northwest of Thunder Bay)	Palladium, platinum, gold, copper, nickel, cobalt	15 000 t/d	Flotation
34	Golden Giant Mine	Newmont Canada Ltd.	Ontario (northern ON, east of Marathon)	Gold	3 000 t/d	Cyanidation
35	Williams Mine	Teck Cominco Ltd. and Barrick Gold Corporation	Ontario (northern ON, east of Marathon)	Gold	10 000 t/d	Cyanidation, gravity
36	Eagle River Mine	Wesdome Gold Mines Ltd.	Ontario (northern ON, west of Wawa)	Gold	850 t/d	Mining only – ore shipped to River Gold Mill
37	Eagle River Mill (Mill, Mishi Pit, and Magnacon Mine)	Wesdome Gold Mines Ltd.	Ontario (northern ON, west of Wawa)	Gold	1 000 t/d	Cyanidation
38	Island Gold Project	Richmont Mines Inc.	Ontario (northern ON, west of Wawa)	Gold	Mine under development	
39	Porcupine Gold Mines (Dome Mine, Owl Creek Pit, Pamour Mine)	Goldcorp Canada Ltd. and Goldcorp Inc.	Ontario (northeastern ON, Timmins area)	Gold		Cyanidation

Appendix B: Mining Facilities Subject to the *Metal Mining Effluent Regulations* in 2008 (cont'd)

	Facility	Operator	Province / Territory (Location)	Products	Production Capacity	Process
40	Holloway Mine	Holloway Mining Company	Ontario (northeastern ON, Timmins area)	Gold	2 500 t/d	Cyanidation
41	Clavos Mine	St Andrew Goldfields Ltd.	Ontario (northeastern ON, Timmins area)	Gold	700 t/d	Ore shipped to Stock Mill
42	Hislop Mine	St Andrew Goldfields Ltd.	Ontario (northeastern ON, Timmins area)	Gold	Mine under development	Ore shipped to Stock Mill
43	Stock Mine and Mill Complex / Black Fox Mill Complex	St Andrew Goldfields Ltd. / Apollo Gold Corporation	Ontario (northeastern ON, Timmins area)	Gold	1 300 t/d (mill)	Carbon-in-leach (cyanide)
44	Black Fox Mine	Apollo Gold Corporation	Ontario (northeastern ON, Timmins area)	Gold	1 500 t/d	Mining only – ore shipped to Black Fox Mill Complex
45	Redstone Mine	Liberty Mines Inc.	Ontario (northeastern ON, Timmins area)	Nickel	Care and maintenance since October 31, 2008	
46	McWatters Mine	Liberty Mines Inc.	Ontario (northeastern ON, Timmins area)	Nickel	Care and maintenance since October 31, 2008	
47	Kidd Mining Division	Xstrata Canada Corporation	Ontario (northeastern ON, Timmins area)	Zinc, copper, cadmium, indium, cobalt, selenium, silver, palladium, platinum	10 000 t/d	Mining only – ore shipped to Kidd Metallurgical Division
48	Kidd Metallurgical Division	Xstrata Canada Corporation	Ontario (northeastern ON, Timmins area)	Zinc, copper, cadmium, indium, cobalt, selenium, silver, palladium, platinum	10 000 t/d	Flotation
49	Montcalm Project	Xstrata Canada Corporation	Ontario (northeastern ON, Timmins area)	Nickel, copper, cobalt	875 000 t/y	Ore shipped to Kidd Metallurgical Division
50	Macassa Mine	Kirkland Lake Gold Inc.	Ontario (northeastern ON, Kirkland Lake area)	Gold	1 450 t/d	Cyanidation
51	McAlpine Mill	SMC (Canada) Ltd.	Ontario (northeastern ON, Cobalt area)	Gold, silver, platinum, palladium	200 t/d processes metallurgical wastes	Gravity and flotation
52	Lockerby Mine	First Nickel Inc.	Ontario (Sudbury area)	Copper, nickel, cobalt	≥ 700 t/d	Mining only – ore shipped to Strathcona Mill
53	Strathcona Tailings Treatment System (includes Fraser, Strathcona Mine and Mill, Craig and Onaping Mines; also includes Inco's Coleman and McCreedy East Mines)	Xstrata Canada Corporation	Ontario (Sudbury area)	Nickel, copper, cobalt, platinum, palladium	8 200 t/d	Flotation

Appendix B: Mining Facilities Subject to the *Metal Mining Effluent Regulations* in 2008 (cont'd)

	Facility	Operator	Province / Territory (Location)	Products	Production Capacity	Process
54	Copper Cliff Complex (includes Clarabelle Mill, smelter, Copper Cliff North, Copper Cliff South, Creighton, Gertrude, Froid, and Stobie Mines)	Vale Inco Ltd.	Ontario (Sudbury area)	Nickel, copper, cobalt, platinum	27 300 t/d for Clarabelle Mill	Flotation
55	Garson Mine	Vale Inco Ltd.	Ontario (Sudbury area)	Nickel, copper, cobalt, platinum	2 400 t/d	Mining only – ore shipped to Copper Cliff Complex – Clarabelle Mill
56	Totten Mine	Vale Inco Ltd.	Ontario (Sudbury area)	Nickel, copper, precious metals	Mine under development	
57	Podolsky Mine	FNX Mining Company Inc.	Ontario (Sudbury area)	Nickel, copper, precious metals	1 000 t/d	Mining only – ore shipped to Copper Cliff Complex – Clarabelle Mill
58	Haley Plant	Timminco Ltd.	Ontario (southeastern ON, west of Ottawa)	Magnesium, calcium, strontium	7 500 t/y magnesium, 900 t/y calcium	Calcining, reduction, refining, melting, casting, extruding
59	Langlois (Mine)	Ressources Breakwater Ltée	Quebec (northwestern QC, 213 km north of Val-d'Or)	Zinc, copper, gold, silver	2 000 t/d	Flotation
60	Matagami (Mine) / Xstrata Zinc Canada Division	Xstrata Canada Corporation	Quebec (northeastern QC, near Matagami)	Zinc, copper	2 000 t/d	Flotation
61	Casa Berardi (Mine)	Mines Aurizon Ltée	Quebec (northwestern QC, 95 km north of La Sarre)	Gold	1 600 to 2 200 t/d	Cyanidation
62	Géant Dormant (Mine)	Gestion lamgold-Québec Inc. / Ressources Cadiscor Inc.	Quebec (northeastern QC, Abitibi region)	Gold	900 t/d	Cyanidation
63	Barry	Ressources Métanor Inc.	Quebec (northeastern QC, Abitibi region)	Gold	500 t/d	Mining only – ore shipped to Bachelor Mill
64	Bouchard-Hébert (Mine)	Ressources Breakwater Ltée	Quebec (northeastern QC, Abitibi region)	Zinc, copper, gold, silver	2 800 t/d	Flotation
65	Laronde (Mine)	Mines Agnico-Eagle Ltée	Quebec (northeastern QC, Abitibi region)	Gold, silver, copper, zinc	5 000 t/d	Flotation, leaching, gravity concentration
66	Lapa (Project)	Mines Agnico-Eagle Ltée	Quebec (northwestern QC, 11 km east of LaRonde Mine)	Gold	Mine under development	
67	Mouska (Mine)	Gestion lamgold-Québec Inc.	Quebec (northeastern QC, Abitibi region)	Gold	600 t/d	Mining only – ore shipped to Doyon Mill
68	Doyon	Gestion lamgold-Québec Inc.	Quebec (northeastern QC, Abitibi region)	Gold	3 500 t/d	Cyanidation
69	Kiena (Mine)	Mines d'Or Wesdome Ltée	Quebec (northeastern QC, Abitibi region)	Gold	2 000 t/d	Cyanidation
70	Malartic (Mill)	Ministère des Ressources naturelles et de la Faune du Québec	Quebec (northeastern QC, Abitibi region)	Gold	3 000 t/d	Gravity, flotation, cyanidation

Appendix B: Mining Facilities Subject to the *Metal Mining Effluent Regulations* in 2008 (cont'd)

	Facility	Operator	Province / Territory (Location)	Products	Production Capacity	Process
71	Sigma	Century Mining Corporation	Quebec (northeastern QC, Abitibi region)	Gold	5 000 t/d	
72	Goldex (Mine)	Mines Agnico-Eagle Ltée	Quebec (northeastern QC, Abitibi region)	Gold	Mine under development	
73	Beaufor	Mines Richmond Inc.	Quebec (northeastern QC, Abitibi region)	Gold	820 t/d	Mining only – ore shipped to Camflo
74	Camflo (Mill)	Mines Richmond Inc.	Quebec (northeastern QC, Abitibi region)	Gold	1 300 t/d (mill only)	Cyanidation
75	Croinor (Mine)	Ressources X-Ore Inc.	Quebec (northeastern QC, Abitibi region)	Gold		Mining only – ore shipped to Camflo
76	Lac Herbin	Alexis Minerals Corporation	Quebec (northeastern QC, Abitibi region)	Gold	400 t/d	Mining only – ore shipped to Camflo
77	Fabie (Mine)	First Metal Inc.	Quebec (northeastern QC, Abitibi region)	Copper	1 400 t/d	Mining only – ore shipped to Horne Complex
78	Horne (Smelter)	Xstrata Canada Corporation	Quebec (northeastern QC, Abitibi region)	Copper	Ore processed from Fabie Mine	Flotation
79	Principale (Camchib)	Ressources Campbell Inc.	Quebec (northeastern QC, Chibougamau area)	Gold, copper	3 000 t/d (mill only)	Cyanidation
80	Joe Mann	Ressources Campbell Inc.	Quebec (northeastern QC, Chibougamau area)	Gold, copper	1 000 t/d	Mining only – ore shipped to Camchib
81	Copper Rand (Mine)	Ressources Campbell Inc.	Quebec (northeastern QC, Chibougamau area)	Copper, gold, silver		Gravity, flotation
82	Troilus	Corporation minière Inmet	Quebec (northeastern QC, north of Chibougamau)	Gold, copper	15 000 t/d	Gravity, flotation
83	Raglan (Mine)	Xstrata Canada Corporation	Quebec (northern QC, west of Ungava Bay)	Nickel, copper, cobalt, platinum, palladium	3 000 t/d	Flotation
84	Niobec (Mine)	Gestion lamgold-Québec Inc.	Quebec (central QC, Lac St. Jean region)	Niobium	3 500 t/d	Flotation, magnetic separation
85	Complexe métallurgique Sorel-Tracy	QIT-Fer et Titane Inc.	Quebec (southwestern QC)	Titanium, iron ore	Ore processed from Tio Mine	Metallurgical process
86	Tio (Mine)	QIT-Fer et Titane Inc.	Quebec (eastern QC, north of Havre-Saint-Pierre)	Titanium, iron ore	8 000 t/d	Mining only – ore processed at plant in Sorel, QC
87	Mont-Wright (Mine)	Compagnie minière Québec Cartier / ArcelorMittal Mines Canada	Quebec (northeastern QC, near Wabush, NL)	Iron ore	125 000 t/d	Grinding and spiral separation
88	Fire Lake (Mine)	ArcelorMittal Mines Canada	Quebec (northeastern QC, 55 km south of Mont-Wright Mine)	Iron ore	675 000 t/a	Mining only – ore shipped by train to Mount-Wright Mine
89	Wabush Mines Joint Venture (Scully Mine)	Wabush Mines	Newfoundland and Labrador (western Labrador, Wabush, Labrador City area)	Iron ore	54 400 t/d	Grinding, spiral and high-tension separation

Appendix B: Mining Facilities Subject to the *Metal Mining Effluent Regulations* in 2008 (cont'd)

	Facility	Operator	Province / Territory (Location)	Products	Production Capacity	Process
90	Iron Ore Company of Canada – Carol Project	Iron Ore Company of Canada	Newfoundland and Labrador (western Labrador, Wabush, Labrador City area)	Iron ore	140 000 t/d	Spirals and magnetic separators, flotation
91	Nugget Pond Mine	Crew Gold Corporation	Newfoundland and Labrador (north-central NL, northwest of Grand Falls)	Gold	350 t/d (mill only)	
92	Pine Cove Mine	Anaconda Mining Inc.	Newfoundland and Labrador (north-central NL, northwest of Grand Falls)	Gold	1 000 t/d	Gravity / flotation
93	Duck Pond Mine	Teck Cominco Ltd.	Newfoundland and Labrador (west-central Newfoundland)	Copper, zinc, silver, gold	1 500 t/d	Flotation
94	Voisey's Bay Mine – Mill	Vale Inco Ltd.	Newfoundland and Labrador (northeastern Labrador)	Nickel, copper, cobalt	6 000 t/d	Flotation
95	Brunswick No. 12	Xstrata Canada Corporation – Xstrata Zinc Canada Division	New Brunswick (northern NB, south of Bathurst)	Lead, zinc, copper, silver	10 000 t/d	Flotation
96	Caribou Mine – Mill	Blue Note Mining Inc.	New Brunswick (northern NB, west of Bathurst)	Zinc, lead, silver, copper	3 000 t/d (mill) 1 650 t/d (mine)	Flotation
97	Restigouche Mine	Blue Note Mining Inc.	New Brunswick (northern NB, west of Bathurst)	Zinc, lead, silver, copper	1 350 t/d	Mining only – ore shipped to Caribou Mill
98	Scozinc Mine – Mill	Acadian Mining Corporation	Nova Scotia (65 km north of Halifax)	Zinc, lead	2 300 t/d (mill) Open pit and underground mine	Flotation

Appendix C: Mining Companies Included in the Assessment in 2008

Acadian Mining Corporation	Mines Aurizon Ltée
Alexis Minerals Corporation	Mines d'Or Wesdome Ltée
Anaconda Mining Inc.	Mines Richmond Inc.
Apollo Gold Corporation	Ministère des Ressources naturelles et de la Faune du Québec
ArcelorMittal Mines Canada	Minto Explorations Ltd.
AREVA Resources Canada Inc.	Miramar Mining Corporation
Barrick Gold Corporation	Newmont Canada Ltd.
Blue Note Mining Inc.	North American Palladium Ltd.
Cameco Corporation	North American Tungsten Corporation Ltd.
Century Mining Corporation	Northgate Minerals Corporation
Claude Resources Inc.	NVI Mining Ltd.
Compagnie minière Québec Cartier	QIT-Fer et Titane Inc.
Corporation minière Inmet	Ressources Breakwater Ltée
Crew Gold Corporation	Ressources Cadiscor Inc.
Crowflight Minerals Inc.	Ressources Campbell Inc.
First Metal Inc.	Ressources Métanor Inc.
First Nickel Inc.	Ressources X-Ore Inc.
FNX Mining Company Inc.	Richmont Mines Inc.
FortyTwo Metals Inc.	San Gold Corporation
Garson Gold Corporation	SMC (Canada) Ltd.
Gestion lamgold-Québec Inc.	St Andrew Goldfields Ltd.
Goldcorp Canada Ltd.	Tantalum Mining Corporation of Canada Ltd.
Goldcorp Inc.	Teck Cominco Ltd.
Holloway Mining Company	Thompson Creek Mining Ltd.
Huckleberry Mines Ltd.	Timminco Ltd.
Hudson Bay Mining and Smelting Co. Ltd.	Vale Inco Ltd.
Indian and Northern Affairs Canada	Wabush Mines
Iron Ore Company of Canada	Wesdome Gold Mines Ltd.
Kirkland Lake Gold Inc.	Xstrata Canada Corporation
Liberty Mines Inc.	Zinifex Canada Inc.
Mines Agnico-Eagle Ltée	

Appendix D: Performance Summary of Mine Effluents in 2008

Note to the Reader

The tables presented in this appendix summarize the effluent quality data for mines subject to the *Metal Mining Effluent Regulations* (MMER) in 2008. The summaries include site identification (i.e., mine/mill name and effluent discharge name) and number of months of discharge. Table D1 summarizes the distribution of the non-compliant parameters for metals and pH, whereas Table D2 summarizes the results of rainbow trout acute lethality tests and *Daphnia magna* monitoring tests. Metal exceedances represent the number of monthly mean concentrations that exceeded the prescribed limits for a given month, whereas pH exceedances represent the number of times that the monthly pH range was exceeded. The parameters included are arsenic (As), copper (Cu), cyanide (CN), lead (Pb), nickel (Ni), zinc (Zn), total suspended solids (TSS), total radium 226 (Ra-226), and pH.

Table D1: Summary of Exceedances for Mines Subject to the MMER in 2008: Prescribed Parameters and pH

Site Identification		Number of Months of Discharge	As mg/L	Cu mg/L	CN mg/L	Pb mg/L	Ni mg/L	Zn mg/L	TSS mg/L	Ra-226 q/L	pH Low	pH High
Mine/Mill Name	Effluent Discharge Name											
Barry (Mine)	V-Notch	3										
Beaufor	Final Effluent	12										
Birchtree Mine	Birchtree Effluent Treatment Plant	12										1
Black Fox Mine	Salve Creek Transitional Period Discharge Point	1										
Bouchard-Hébert (Mine)	Polishing Pond – Final Effluent	5										
Brunswick No. 12	3333 Final Effluent	12										
Bucko Lake Mine	Settling Pond Discharge	8						4		5		
Carmflo (Mill)	Final Effluent	12										
Campbell Mine	WETOUT	6										
Cantung Mine	4-27-2 Culvert	12										
Cantung Mine	Polishing Pond Four	12										
Cantung Mine	Settling Pond 5-2	1										
Caribou Mine – Mill	Polishing Pond Effluent	12			2							
Casa Berardi (Mine)	Final Effluent – Point A	6										
Chisel North Mine	Chisel North Mine Discharge	12										
Cigar Lake Project	Station 2.2	8										
Clavos Mine	Clavos Mine Drainage Area	0										
Clavos Mine	Sediment Pond	0										
Complexe métallurgique Sorel-Tracy	Final Effluent QIT (Point 1.4)	8						9		1		
Con Mine	Surveillance Network Program Station 40-1	2										
Copper Cliff Complex	Copper Cliff Wastewater Treatment Plant	12									1	
Copper Cliff Complex	Nolin Creek Spillway	0										
Copper Cliff Complex	Nolin Creek Wastewater Treatment Plant	11					1					
Copper Rand (Mine)	Final Discharge Point 2.1c	12										

Table D1: Summary of Exceedances for Mines Subject to the MMER in 2008: Prescribed Parameters and pH (cont'd)

Site Identification		Number of Months of Discharge	As mg/L	Cu mg/L	CN mg/L	Pb mg/L	Ni mg/L	Zn mg/L	TSS mg/L	Ra-226 q/L	pH Low	pH High
Mine/Mill Name	Effluent Discharge Name											
Croinor (Mine)	Final Effluent	0										
Doyon	Pond A Final Effluent (D-203)	12							1			
Duck Pond Operations	Polishing Pond Effluent	9										
Duck Pond Operations	Temporary Settling Pond Effluent	0										
Eagle River Mill	Eagle River Mill	6		1								
Eagle River Mine	FDP 1	12										
Endako Mines	En.A1 – Tailings Pond 1 South	12										
Endako Mines	En.H1 – Tailings Pond 2 Higginbotham	12							1			
Endako Mines	En.N1 – Tailings Pond 1 North	12										
Endako Mines	En.S2 – Tailings Pond 2 South	12										
Endako Mines	En.SBC – Endako Pit	12										
Endako Mines	En.W2 – Denak West Pit	4							1			
Eskay Creek Mine	Es.D7 – Treatment Pond Discharge Point	12										
Eskay Creek Mine	Es.TM1 – Tom MacKay Discharge Point	12										
Eskay Creek Mine	Es.W20 – Albino Discharge Point	6										
Fabie (Mine)	V-Notch	12										
Fire Lake (Mine)	Beaver Pit – Spillway (FL-2)	8										
Fire Lake (Mine)	Main Pit (FL-1)	8										
Flin Flon Complex	North Weir Discharge	12										
Garson Mine	Garson Mine	12										
Géant Dormant (Mine)	GD-E01 Final Effluent – Mine Water Pond	12							1			
Géant Dormant (Mine)	GD-E02 Final Effluent – Lamellar Clarifier	0										
Géant Dormant (Mine)	GD-E03 Polishing Pond 2A	6										

Table D1: Summary of Exceedances for Mines Subject to the MMER in 2008: Prescribed Parameters and pH (cont'd)

Site Identification		Number of Months of Discharge	As 0.5 mg/L	Cu 0.3 mg/L	CN 1 mg/L	Pb 0.2 mg/L	Ni 0.5 mg/L	Zn 0.5 mg/L	TSS 15 mg/L	Ra-226 0.37 q/L	pH Low 6	pH High 9.5
Mine/Mill Name	Effluent Discharge Name											
Giant Mine	Surveillance Network Program Station 43-1	2										
Golden Giant Mine	Effluent Treatment Plant	0										
Golden Giant Mine	Sedimentation Pond Effluent	8										
Goldex (Mine)	Final Effluent	0										
Goldex (Mine)	Final Effluent – Goldex Tailings Pond	4										
Goldex (Mine)	Final Effluent – Shaft No. 2	4										
Haley Plant	FDP 1	12										
Hislop Mine	Sedimentation Pond	0										
Holloway Mine	Final Discharge Point	4										
Horne (Smelter)	Final Effluent – Pelletier Sector	12										
Huckleberry Mine	Hu.EZDD – East Zone Diversion Ditch	0										
Huckleberry Mine	Hu.SC3 – Sediment Control Structure 3	12										
Huckleberry Mine	Hu.SC4 – Sediment Control Structure 4	1										
Huckleberry Mine	Hu.TMF2 – Tailings Management Facility 2 Supernatant	11										3
Iron Ore Company of Canada – Carol Project	Beaver Bay Discharge	10										2
Iron Ore Company of Canada – Carol Project	Hakim Culvert	6							2			
Iron Ore Company of Canada – Carol Project	Julienne Narrows	3										
Iron Ore Company of Canada – Carol Project	Main Tailings Discharge	12	1	1				2	4			

Highlighted data indicate the number of times that the authorized limits set as per transitional authorizations (TAs) were exceeded.

Table D1: Summary of Exceedances for Mines Subject to the MMER in 2008: Prescribed Parameters and pH (cont'd)

Site Identification		Number of Months of Discharge	As 0.5 mg/L	Cu 0.3 mg/L	CN 1 mg/L	Pb 0.2 mg/L	Ni 0.5 mg/L	Zn 0.5 mg/L	TSS 15 mg/L	Ra-226 0.37 q/L	pH Low 6	pH High 9.5
Mine/Mill Name	Effluent Discharge Name											
Iron Ore Company of Canada – Carol Project	MD5	7							2			
Iron Ore Company of Canada – Carol Project	Old Tailings Pumphouse Discharge	12							1		1	
Iron Ore Company of Canada – Carol Project	Ore Car Flume	10		1				1				
Island Gold Project	IG-2	7										
Joe Mann	Polishing Pond Effluent – Point 10	11										
Kemess South Mine	KS.WQ14 – Runoff	12										
Kemess South Mine	KS.WQBL – Sedimentation Pond Decant	4										
Key Lake Operation	Station 1.2 – Dewatering Discharge to Horsefly Lake	12										
Key Lake Operation	Station 1.4 – Mill Effluent to Wolf Lake	12										
Kidd Metallurgical Division	Final Effluent Monitoring Point	12										1
Kidd Mining Division	Treatment Pond Final Effluent	12										
Kiena (Mine)	Final Effluent	8										
Konuto Lake Mine	Surface Sump Discharge	0										
Lac des Iles Mine	FDP 1	6										
Lac Herbin (Mine)	Final Effluent No. 1	8							3			
Lac Herbin (Mine)	Final Effluent No. 2	3										
Langlois (Mine)	Main Final Effluent	11									1	
Lapa (Project)	Final Effluent – Sedimentation Pond	6										
Laronde (Mine)	Final Effluent 3A	12							1			
Lockerby Mine	Number 4 Pond Effluent	12										
Lupin Operations	Lupin Discharge Syphons SNP 925-10	0										

Highlighted data indicate the number of times that the authorized limits set as per transitional authorizations (TAs) were exceeded.

Table D1: Summary of Exceedances for Mines Subject to the MMER in 2008: Prescribed Parameters and pH (cont'd)

Site Identification		Number of Months of Discharge	As 0.5 mg/L	Cu 0.3 mg/L	CN 1 mg/L	Pb 0.2 mg/L	Ni 0.5 mg/L	Zn 0.5 mg/L	TSS 15 mg/L	Ra-226 0.37 q/L	pH Low 6	pH High 9.5
Mine/Mill Name	Effluent Discharge Name											
Macassa Mine	C Dam	12										
Magnaon Mine (part of Eagle River Mill)	Magnaon Mine	0										
Malartic (Mill)	Final Effluent E1	5										
Matagami Mine (Xstrata Zinc Canada Division)	Watson Lake Discharge	12					1					1
MAX Molybdenum Mine and Mill	MM.SiteD – Mine Portal Settling Pond	12							2			
MAX Molybdenum Mine and Mill	MM.SiteI – Settling Ponds Decant	12							1			
MAX Molybdenum Mine and Mill	MM.SiteM – Tailings Discharge	1										
McAlpine Mill	Polishing Pond	12										
McArthur River Operation	Station 2.1	12										
McArthur River Operation	Station 2.1B	0										
McArthur River Operation	Station 2.7	0										
McClean Lake Operation	CM01-B (JEB Water Treatment Plant)	12										
McClean Lake Operation	CM03	0										
McClean Lake Operation	SC01 (SUE Water Treatment Plant Effluent)	12										
McWatters Mine	MWD-2	6										
Minto Project	Mi.W3 – Runoff Main Water Dam	12							1			
Mishi Pit (part of Eagle River Mill)	Mishi Pit	0										
Montcalm Project	Montcalm Final Effluent	10										
Mont-Wright (Mine)	HS-1	12										
Mont-Wright (Mine)	MS-2	7										
Mouska (Mine)	Final Effluent	12										
Musselwhite Mine	FDP 1	5										

Table D1: Summary of Exceedances for Mines Subject to the MMER in 2008: Prescribed Parameters and pH (cont'd)

Site Identification		Number of Months of Discharge	As mg/L	Cu mg/L	CN mg/L	Pb mg/L	Ni mg/L	Zn mg/L	TSS mg/L	Ra-226 q/L	pH Low	pH High
Mine/Mill Name	Effluent Discharge Name											
Myra Falls Operations	MF11A – Runoff Myra Ponds Effluent	12										
New Britannia Mine	SWM03 (Birch Lake Outlet Embankment Decant Discharge)	2	1									
Niobec (Mine)	Final Effluent	9							3			
Nugget Pond Mine	Polishing Pond Effluent	8										
Pine Cove Property	Tailings Pond Discharge	1							1			
Podolsky Mine	Norman North Bog Outlet	12									7	
Porcupine Gold Mines	Mine Effluent Treatment Plant – Dome Mine	5										
Porcupine Gold Mines	Mine Water Storage Pond – Dome Mine	12										
Porcupine Gold Mines	Owl Creek Discharge 1	6										
Porcupine Gold Mines	Owl Creek Discharge 2	2										
Porcupine Gold Mines	Pamour Mine Water	12										
Principale (Camchib)	Point 20	2										
Rabbit Lake Operation	Station 2.3.3	12										
Raglan (Mine)	DIR-HSA	0										
Raglan (Mine)	DIR-SPOON	2										
Raglan (Mine)	DIR-UT	7										
Raglan (Mine)	DIR-Z3	6										
Red Lake Mine	G1	0										
Red Lake Mine	G2	6										
Red Lake Mine	Shaft 3 Mine Water Settling Pond	0										
Redstone Mine	RSD-2	11										
Restigouche Mine	Mixing Structure Discharge	12										
Rice Lake Gold Mine	FDP1 – End of Pipe	3										
Santoy 7 Mine	Santoy 7 Settling Pond	12							4			
Scozinc Mine – Mill	Polishing Pond Outlet	12		1								
Scozinc Mine – Mill	Polishing Pond Outlet 2	2										

Table D1: Summary of Exceedances for Mines Subject to the MMER in 2008: Prescribed Parameters and pH (cont'd)

Site Identification		Number of Months of Discharge	As 0.5 mg/L	Cu 0.3 mg/L	CN 1 mg/L	Pb 0.2 mg/L	Ni 0.5 mg/L	Zn 0.5 mg/L	TSS 15 mg/L	Ra-226 0.37 q/L	pH Low 6	pH High 9.5
Mine/Mill Name	Effluent Discharge Name											
Seabee Gold Mine	Final Discharge Point 1.2	12										
Seabee Gold Mine	Final Discharge Point 1.3	0										
Seabee Gold Mine	Final Discharge Point 1.5	4										
Sigma	Final Effluent EFF1	9										
Snow Lake Mill	Anderson Lake Discharge	7										
Stock Mine and Mill Complex / Black Fox Mill Complex	Direct Tailings Pond Effluent	0										
Stock Mine and Mill Complex / Black Fox Mill Complex	Polishing Pond Effluent	8										
Strathcona Tailings Treatment System	Fecunis RR Bridge	12										
Tanco Mine	East Discharge (Phreatic Flow)	0										
Tanco Mine	West Discharge (Compliance Point)	12										
Thompson Complex	Misery Weir	12										
Thompson Complex	Station B	12										1
Tio (Mine)	Switch South	10					1					
Tio (Mine)	ECLAC168	6					1					
Tio (Mine)	Lake 211.4	8									1	
Tio (Mine)	Grondin Effluent (formerly Grondin Lake)	0										
Tio (Mine)	Resurgence Leo	12					6					
Totten Mine	Totten Discharge	12										
Troilus	BS-1	2										
Troilus	BS-2	7							3			
Troilus	PR-1	12										
Troilus	PR-2	12										
Troilus	PR-5	11										
Troilus	PR-6	12										
Troilus	PR-7	12							6	1		
Trout Lake Mine	Trout Lake Surface Sump Discharge	12										
Voisey's Bay Mine - Mill	Port Site Sedimentation Pond	2										

Table D1: Summary of Exceedances for Mines Subject to the MMER in 2008: Prescribed Parameters and pH (cont'd)

Site Identification		Number of Months of Discharge	As 0.5 mg/L	Cu 0.3 mg/L	CN 1 mg/L	Pb 0.2 mg/L	Ni 0.5 mg/L	Zn 0.5 mg/L	TSS 15 mg/L	Ra-226 0.37 q/L	pH Low 6	pH High 9.5
Mine/Mill Name	Effluent Discharge Name											
Voisey's Bay Mine - Mill	Sedimentation Pond A Discharge	0										
Voisey's Bay Mine - Mill	Sedimentation Pond B	0										
Voisey's Bay Mine - Mill	South of Ovoid Final Discharge Point	0										
Voisey's Bay Mine - Mill	South Sedimentation Pond	0										
Voisey's Bay Mine - Mill	Treated Effluent Final Discharge Point	12										
Wabush Mines Joint Venture - Scully Mine	East Pit Dewatering East	12							2			
Wabush Mines Joint Venture - Scully Mine	East Pit No. 1 Dewatering	0										
Wabush Mines Joint Venture - Scully Mine	East Pit No. 2 Dewatering	9										
Wabush Mines Joint Venture - Scully Mine	Knoll Lake Inflow	12							10			
Wabush Mines Joint Venture - Scully Mine	Loadout Ditch Discharge	0										
Wabush Mines Joint Venture - Scully Mine	Shops East Discharge	0										
Wabush Mines Joint Venture - Scully Mine	Shops South Discharge	0										
Wabush Mines Joint Venture - Scully Mine	Tailings Discharge	12							1			
Wabush Mines Joint Venture - Scully Mine	Tailings Line Emergency Dump Basin 1	7							5			

Table D1: Summary of Exceedances for Mines Subject to the MMR in 2008: Prescribed Parameters and pH (cont'd)

Site Identification		Number of Months of Discharge	As 0.5 mg/L	Cu 0.3 mg/L	CN 1 mg/L	Pb 0.2 mg/L	Ni 0.5 mg/L	Zn 0.5 mg/L	TSS 15 mg/L	Ra-226 0.37 q/L	pH Low 6	pH High 9.5
Mine/Mill Name	Effluent Discharge Name											
Wabush Mines Joint Venture – Scully Mine	West Pit Extension Settling Basin	12							10			
Williams Mine	Polishing Pond Discharge CP 400	0										
Williams Mine	Stormwater Pond CP 102	4										
Williams Mine	Stormwater Pond CP 0300	2										
Williams Mine	Stormwater Pond CP 400A	5										
Williams Mine	Treated Effluent CP 0201	7										
Total Exceedances			2	4	3	0	9	4	81	7	11	9

**Table D2: Performance Summary for Mines Subject to the MMER in 2008:
Rainbow Trout (RT) Acute Lethality and *Daphnia magna* (DM)
Monitoring Tests**

Site Identification		Number of Months of Discharge	RT Total	RT Fail	DM Total	DM Fail
Mine/Mill Name	Effluent Discharge Name					
Barry (Mine)	V-Notch	3	2		2	
Beaufor	Final Effluent	12	4		4	
Birchtree Mine	Birchtree Effluent Treatment Plant	12	4		4	1
Black Fox Mine	Salve Creek Transitional Period Discharge Point	1	1		1	
Bouchard-Hébert (Mine)	Polishing Pond – Final Effluent	5	5		5	1
Brunswick No. 12	3333 Final Effluent	12	14	1	14	1
Bucko Lake Mine	Settling Pond Discharge	8	8		8	5
Camflo (Mill)	Final Effluent	12	5		5	
Campbell Mine	WETOUT	6	7		7	
Cantung Mine	4-27-2 Culvert	12	8		8	
Cantung Mine	Polishing Pond Four	12	12		12	
Cantung Mine	Settling Pond 5-2	1	1		1	
Caribou Mine – Mill	Polishing Pond Effluent	12	14	4	13	5
Casa Berardi (Mine)	Final Effluent – Point A	6	8		8	1
Chisel North Mine	Chisel North Mine Discharge	12	4		4	
Cigar Lake Project	Station 2.2	8	4		4	
Clavos Mine	Clavos Mine Drainage Area	0				
Clavos Mine	Sediment Pond	0				
Complexe métallurgique Sorel-Tracy	Final Effluent QIT (Point 1.4)	8	8		8	
Con Mine	Surveillance Network Program Station 40-1	2	2		2	
Copper Cliff Complex	Copper Cliff Wastewater Treatment Plant	12	4		4	
Copper Cliff Complex	Nolin Creek Spillway	0				
Copper Cliff Complex	Nolin Creek Wastewater Treatment Plant	11	4		4	
Copper Rand (Mine)	Final Discharge Point 2.1c	12	4		4	
Croinor (Mine)	Final Effluent	0				
Doyon	Pond A Final Effluent (D-203)	12	4		4	1
Duck Pond Operations	Polishing Pond Effluent	9	8		8	
Duck Pond Operations	Temporary Settling Pond Effluent	0				
Eagle River Mill	Eagle River Mill	6	6		6	
Eagle River Mine	FDP 1	12	12		12	
Endako Mines	En.A1 – Tailings Pond 1 South	12	4		4	
Endako Mines	En.H1 – Tailings Pond 2 Higginbotham	12	4		4	
Endako Mines	En.N1 – Tailings Pond 1 North	12	4		4	
Endako Mines	En.S2 – Tailings Pond 2 South	12	4		4	
Endako Mines	En.SBC – Endako Pit	12	4		4	
Endako Mines	En.W2 – Denak West Pit	4	3		3	
Eskay Creek Mine	Es.D7 – Treatment Pond Discharge Point	12	5		5	
Eskay Creek Mine	Es.TM1 – Tom MacKay Discharge Point	12	4		4	
Eskay Creek Mine	Es.W20 – Albino Discharge Point	6	6		6	1
Fabie (Mine)	V-Notch	12	13	1	13	1
Fire Lake (Mine)	Beaver Pit – Spillway (FL-2)	8	7		7	
Fire Lake (Mine)	Main Pit (FL-1)	8	7		7	
Flin Flon Complex	North Weir Discharge	12	4		4	

**Table D2: Performance Summary for Mines Subject to the MMER in 2008:
Rainbow Trout (RT) Acute Lethality and *Daphnia magna* (DM)
Monitoring Tests (cont'd)**

Site Identification		Number of Months of Discharge	RT Total	RT Fail	DM Total	DM Fail
Mine/Mill Name	Effluent Discharge Name					
Garson Mine	Garson Mine	12	4		4	
Géant Dormant (Mine)	GD-E01 Final Effluent – Mine Water Pond	12	4		4	
Géant Dormant (Mine)	GD-E02 Final Effluent – Lamellar Clarifier	0				
Géant Dormant (Mine)	GD-E03 Polishing Pond 2A	6	5		5	
Giant Mine	Surveillance Network Program Station 43-1	2	3		3	
Golden Giant Mine	Effluent Treatment Plant	0				
Golden Giant Mine	Sedimentation Pond Effluent	8	8		8	
Goldex (Mine)	Final Effluent	0				
Goldex (Mine)	Final Effluent – Goldex Tailings Pond	4	3		3	
Goldex (Mine)	Final Effluent – Shaft No. 2	4	2		2	
Haley Plant	FDP 1	12	9		9	
Hislop Mine	Sedimentation Pond	0				
Holloway Mine	Final Discharge Point	4	4		4	
Horne (Smelter)	Final Effluent – Pelletier Sector	12	12		12	
Huckleberry Mine	Hu.EZDD – East Zone Diversion Ditch	0				
Huckleberry Mine	Hu.SC3 – Sediment Control Structure 3	12	4		4	1
Huckleberry Mine	Hu.SC4 – Sediment Control Structure 4	1				
Huckleberry Mine	Hu.TMF2 – Tailings Management Facility 2 Supernatant	11	11		11	2
Iron Ore Company of Canada – Carol Project	Beaver Bay Discharge	10	4		4	
Iron Ore Company of Canada – Carol Project	Hakim Culvert	6	5	1	5	
Iron Ore Company of Canada – Carol Project	Julienne Narrows	3	3		3	
Iron Ore Company of Canada – Carol Project	Main Tailings Discharge	12	4		4	
Iron Ore Company of Canada – Carol Project	MD5	7	6		6	
Iron Ore Company of Canada – Carol Project	Old Tailings Pumphouse Discharge	12	4		4	
Iron Ore Company of Canada – Carol Project	Ore Car Flume	10	4		4	
Island Gold Project	IG-2	7	7		7	
Joe Mann	Polishing Pond Effluent – Point 10	11	4		4	
Kemess South Mine	KS.WQ14 – Runoff	12	6		6	
Kemess South Mine	KS.WQBL – Sedimentation Pond Decant	4	4		4	
Key Lake Operation	Station 1.2 – Dewatering Discharge to Horsefly Lake	12	14	2	14	
Key Lake Operation	Station 1.4 – Mill Effluent to Wolf Lake	12	4		4	
Kidd Metallurgical Division	Final Effluent Monitoring Point	12	16	1	16	
Kidd Mining Division	Treatment Pond Final Effluent	12	4		4	
Kiena (Mine)	Final Effluent	8	10		10	
Konuto Lake Mine	Surface Sump Discharge	0				
Lac des Iles Mine	FDP 1	6	8		8	
Lac Herbin (Mine)	Final Effluent No. 1	8	12	3	12	1
Lac Herbin (Mine)	Final Effluent No. 2	3	3		3	

**Table D2: Performance Summary for Mines Subject to the MMER in 2008:
Rainbow Trout (RT) Acute Lethality and *Daphnia magna* (DM)
Monitoring Tests (cont'd)**

Site Identification		Number of Months of Discharge	RT Total	RT Fail	DM Total	DM Fail
Mine/Mill Name	Effluent Discharge Name					
Langlois (Mine)	Main Final Effluent	11	11		11	1
Lapa (Project)	Final Effluent – Sedimentation Pond	6	8	1	8	
Laronde (Mine)	Final Effluent 3A	12	12		12	
Lockerby Mine	Number 4 Pond Effluent	12	4		4	
Lupin Operations	Lupin Discharge Syphons SNP 925-10	0				
Macassa Mine	C Dam	12	12		12	
Magnacon Mine (part of Eagle River Mill)	Magnacon Mine	0				
Malartic (Mill)	Final Effluent E1	5	3		3	
Matagami Mine (Xstrata Zinc Canada Division)	Watson Lake Discharge	12	4		4	
MAX Molybdenum Mine and Mill	MM.SiteD – Mine Portal Settling Pond	12	10		10	
MAX Molybdenum Mine and Mill	MM.SiteL – Settling Ponds Decant	12	12		12	
MAX Molybdenum Mine and Mill	MM.SiteM – Tailings Discharge	1	1		1	
McAlpine Mill	Polishing Pond	12	4		8	1
McArthur River Operation	Station 2.1	12	4		4	
McArthur River Operation	Station 2.1B	0				
McArthur River Operation	Station 2.7	0				
McClellan Lake Operation	CM01-B (JEB Water Treatment Plant)	12	4		4	
McClellan Lake Operation	CM03	0				
McClellan Lake Operation	SC01 (SUE Water Treatment Plant Effluent)	12	4		4	
McWatters Mine	MWD-2	6	6		6	
Minto Project	Mi.W3 – Runoff Main Water Dam	12	12		12	
Mishi Pit (part of Eagle River Mill)	Mishi Pit	0				
Montcalm Project	Montcalm Final Effluent	10	10		10	
Mont-Wright (Mine)	HS-1	12	4		4	
Mont-Wright (Mine)	MS-2	7	4		4	
Mouska (Mine)	Final Effluent	12	4		4	
Musselwhite Mine	FDP 1	5	5		5	
Myra Falls Operations	MF.11A – Runoff Myra Ponds Effluent	12	11	1	11	1
New Britannia Mine	SWM03 (Birch Lake Outlet Embankment Decant Discharge)	2	1		1	
Niobec (Mine)	Final Effluent	9	3		3	1
Nugget Pond Mine	Polishing Pond Effluent	8	10		10	
Pine Cove Property	Tailings Pond Discharge	1	1		1	
Podolsky Mine	Norman North Bog Outlet	12	16		16	2
Porcupine Gold Mines	Mine Effluent Treatment Plant – Dome Mine	5	5		5	
Porcupine Gold Mines	Mine Water Storage Pond – Dome Mine	12	4		4	
Porcupine Gold Mines	Owl Creek Discharge 1	6	5		5	
Porcupine Gold Mines	Owl Creek Discharge 2	2	2		2	
Porcupine Gold Mines	Pamour Mine Water	12	4		4	
Principale (Camchib)	Point 20	2	3		3	
Rabbit Lake Operation	Station 2.3.3	12	4		4	

**Table D2: Performance Summary for Mines Subject to the MMER in 2008:
Rainbow Trout (RT) Acute Lethality and *Daphnia magna* (DM)
Monitoring Tests (cont'd)**

Site Identification		Number of Months of Discharge	RT Total	RT Fail	DM Total	DM Fail
Mine/Mill Name	Effluent Discharge Name					
Raglan (Mine)	DIR-HSA	0				
Raglan (Mine)	DIR-SPOON	2	2		2	
Raglan (Mine)	DIR-UT	7	5		5	
Raglan (Mine)	DIR-Z3	6	6		6	
Red Lake Mine	G1	0				
Red Lake Mine	G2	6	6		6	
Red Lake Mine	Shaft 3 Mine Water Settling Pond	0				
Redstone Mine	RSD-2	11	12		12	
Restigouche Mine	Mixing Structure Discharge	12	12		12	
Rice Lake Gold Mine	FDP1 – End of Pipe	3	6		6	
Santoy 7 Mine	Santoy 7 Settling Pond	12	15	4	15	
Scozinc Mine – Mill	Polishing Pond Outlet	12	12		12	1
Scozinc Mine – Mill	Polishing Pond Outlet 2	2	2		2	
Seabee Gold Mine	Final Discharge Point 1.2	12	4		4	1
Seabee Gold Mine	Final Discharge Point 1.3	0				
Seabee Gold Mine	Final Discharge Point 1.5	4	5		5	
Sigma	Final Effluent EFF1	9	15	1	15	1
Snow Lake Mill	Anderson Lake Discharge	7	7		7	
Stock Mine and Mill Complex/ Black Fox Mill Complex	Direct Tailings Pond Effluent	0				
Stock Mine and Mill Complex/ Black Fox Mill Complex	Polishing Pond Effluent	8	7		7	
Strathcona Tailings Treatment System	Fecunis RR Bridge	12	4		4	
Tanco Mine	East Discharge (Phreatic Flow)	0				
Tanco Mine	West Discharge (Compliance Point)	12	4		4	
Thompson Complex	Misery Weir	12	4		4	
Thompson Complex	Station B	12	4		4	
Tio (Mine)	Switch South	10	9		9	
Tio (Mine)	ECLAC168	6	5		5	
Tio (Mine)	Lake 211.4	8	7		7	
Tio (Mine)	Grondin Effluent (formerly Grondin Lake)	0				
Tio (Mine)	Resurgence Leo	12	12		12	1
Totten Mine	Totten Discharge	12	11		11	
Troilus	BS-1	2	1		1	
Troilus	BS-2	7	2		2	
Troilus	PR-1	12	4		4	
Troilus	PR-2	12	4		4	
Troilus	PR-5	11	3		3	
Troilus	PR-6	12	4		4	
Troilus	PR-7	12	4		4	
Trout Lake Mine	Trout Lake Surface Sump Discharge	12	4		4	4
Voisey's Bay Mine – Mill	Port Site Sedimentation Pond	2	1		1	1
Voisey's Bay Mine – Mill	Sedimentation Pond A Discharge	0				
Voisey's Bay Mine – Mill	Sedimentation Pond B	0				
Voisey's Bay Mine – Mill	South of Ovoid Final Discharge Point	0				

**Table D2: Performance Summary for Mines Subject to the MMER in 2008:
Rainbow Trout (RT) Acute Lethality and *Daphnia magna* (DM)
Monitoring Tests (cont'd)**

Site Identification		Number of Months of Discharge	RT Total	RT Fail	DM Total	DM Fail
Mine/Mill Name	Effluent Discharge Name					
Voisey's Bay Mine – Mill	South Sedimentation Pond	0				
Voisey's Bay Mine – Mill	Treated Effluent Final Discharge Point	12	58	21	59	41
Wabush Mines Joint Venture – Scully Mine	East Pit Dewatering East	12	14	1	14	
Wabush Mines Joint Venture – Scully Mine	East Pit No. 1 Dewatering	0				
Wabush Mines Joint Venture – Scully Mine	East Pit No. 2 Dewatering	9	4		4	
Wabush Mines Joint Venture – Scully Mine	Knoll Lake Inflow	12	4		4	
Wabush Mines Joint Venture – Scully Mine	Loadout Ditch Discharge	0				
Wabush Mines Joint Venture – Scully Mine	Shops East Discharge	0				
Wabush Mines Joint Venture – Scully Mine	Shops South Discharge	0				
Wabush Mines Joint Venture – Scully Mine	Tailings Discharge	12	4		4	1
Wabush Mines Joint Venture – Scully Mine	Tailings Line Emergency Dump Basin 1	7				
Wabush Mines Joint Venture – Scully Mine	West Pit Extension Settling Basin	12	4		4	
Williams Mine	Polishing Pond Discharge CP 400	0				
Williams Mine	Stormwater Pond CP 102	4	2		2	
Williams Mine	Stormwater Pond CP 0300	2	2		2	
Williams Mine	Stormwater Pond CP 400A	5	5		5	
Williams Mine	Treated Effluent CP 0201	7	8		8	
Summary			928	42	932	78

Appendix E: Effluent Quality Data for Mines in 2008

Note to the Reader

The tables presented in this appendix show the summary of the monthly monitoring results of each final discharge point identified pursuant to sections 9 and 10 of the *Metal Mining Effluent Regulations* (MMER). Effluent results were provided to Environment Canada pursuant to section 22 of the MMER, which requires mines to submit annual reports to Environment Canada. The format for these reports is specified in Schedule 6 of the MMER. Data are presented as provided by the owners or operators of the mines except where comments indicate that some data were added for completeness based on quarterly reports.

Supporting information includes:

- Mine/Mill Name
- Mine/Mill Operator Name
- Mine/Mill Product(s)
- Mine/Mill Address
- Identification of Final Effluent Discharge Point
- Parameter Limits
- Monthly Mean Concentrations of the Deleterious Substances
- Monthly pH Range (Low and High)
- Monthly Effluent Volume
- Results of Rainbow Trout Acute Lethality Tests
- Results of *Daphnia magna* Monitoring Tests
- Comments (if applicable)

Highlighted data indicate that a Monthly Effluent Quality Standard was exceeded for a given month. A “Pass” for the rainbow trout acute lethality test and the *Daphnia magna* monitoring test indicates that the percentage of mortality was less than or equal to 50%. A “Fail” indicates that the percentage of mortality was greater than 50%. Tables are sorted in alphabetical order based on mine/mill name.

Metal Mining Effluent Regulations (MMER) 2008 Effluent Compliance

Mine/Mill Name	Barry (Mine)												
Operator Name	Ressources Métanor Inc.												
Product(s)	Gold												
Address	200 Mine Road, Desmaraisville, Quebec J0Y 1H0												
Effluent Discharge Point	V-Notch												
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.
As (mg/L)	0.5	-	-	-	-	-	-	-	-	-	0.0003	0.0003	0.0003
Cu (mg/L)	0.3	-	-	-	-	-	-	-	-	-	0.0040	0.0026	0.0049
CN (mg/L)	1.0	-	-	-	-	-	-	-	-	-	0.0420	0.0255	0.0453
Pb (mg/L)	0.2	-	-	-	-	-	-	-	-	-	0.0005	0.0006	0.0016
Ni (mg/L)	0.5	-	-	-	-	-	-	-	-	-	0.0018	0.0018	0.0015
Zn (mg/L)	0.5	-	-	-	-	-	-	-	-	-	0.0185	0.0253	0.0347
TSS (mg/L)	15	-	-	-	-	-	-	-	-	-	2.00	3.00	1.30
Ra-226 (Bq/L)	0.37	-	-	-	-	-	-	-	-	-	-	0.0010	0.0020
pH low	≥6.0	-	-	-	-	-	-	-	-	-	8.0	7.8	7.8
pH high	≤9.5	-	-	-	-	-	-	-	-	-	8.1	8.2	8.1
Flow (m ³ /month)	—	-	-	-	-	-	-	-	-	-	1 161	2 328	882
Rainbow Trout	Pass	-	-	-	-	-	-	-	-	-	-	1	1
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
<i>Daphnia magna</i>	Pass	-	-	-	-	-	-	-	-	-	-	1	1
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
Comments:	The mine became subject to the MMER on September 29, 2008. No radium 226 as well as toxicity test results were provided for October.												
Notes: ND: No Deposit	NMR: No Measurement Required												
Highlighted data indicate that a monthly effluent quality standard was exceeded for that month.	Pass: ≤50% Mortality												
A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement.	Fail: >50% Mortality												

Metal Mining Effluent Regulations (MMER) 2008 Effluent Compliance

Mine/Mill Name	Beaufor												
Operator Name	Mines Richmond Inc.												
Product(s)	Gold												
Address	776 Perron Road, Val-Senneville, Quebec J0Y 2P0												
Effluent Discharge Point	Final Effluent												
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
As (mg/L)	0.5	0.0010	0.0020	0.0020	0.0003	0.0003	0.0003	0.0003	NMR	0.0003	0.0003	NMR	NMR
Cu (mg/L)	0.3	0.0082	0.0120	0.0100	0.0108	0.0098	0.0090	0.0094	0.0118	0.0077	0.0065	0.0063	0.0110
CN (mg/L)	1.0	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR
Pb (mg/L)	0.2	0.0040	0.0040	0.0040	0.0003	0.0027	0.0015	0.0003	NMR	0.0010	0.0003	NMR	NMR
Ni (mg/L)	0.5	0.0030	0.0030	0.0030	0.0025	0.0020	0.0045	0.0022	NMR	0.0008	0.0044	NMR	NMR
Zn (mg/L)	0.5	0.0108	0.0085	0.0120	0.0074	0.0051	0.0013	0.0069	0.0183	0.0041	0.0046	0.0040	0.0153
TSS (mg/L)	15	3.20	5.50	4.50	3.50	4.50	6.13	8.30	3.75	3.80	3.25	3.88	2.00
Ra-226 (Bq/L)	0.37	0.0010	NMR	NMR	NMR	0.0010	0.0010	0.0070	NMR	NMR	0.0040	NMR	NMR
pH low	≥6.0	7.5	7.7	7.7	7.9	7.8	7.9	7.9	8.0	8.0	8.0	7.9	7.7
pH high	≤9.5	7.8	7.9	7.8	8.3	8.0	8.1	8.0	8.5	8.1	8.2	8.1	8.0
Flow (m ³ /month)	—	18 472	14 125	16 963	22 194	19 642	19 656	26 427	26 449	22 792	20 869	22 140	22 320
Rainbow Trout	Pass	1	NMR	NMR	NMR	NMR	1	1	NMR	NMR	1	NMR	NMR
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
<i>Daphnia magna</i>	Pass	1	NMR	NMR	NMR	NMR	1	1	NMR	NMR	1	NMR	NMR
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
Comments:													
Notes: ND: No Deposit NMR: No Measurement Required Pass: ≤50% Mortality Fail: >50% Mortality Highlighted data indicate that a monthly effluent quality standard was exceeded for that month. A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement.													

Metal Mining Effluent Regulations (MMER) 2008 Effluent Compliance

Mine/Mill Name	Birchtree Mine												
Operator Name	Vale Inco Ltd.												
Product(s)	Nickel-Copper												
Address	P.O. Box 5000, Thompson, Manitoba R8N 1P3												
Effluent Discharge Point	Birchtree Effluent Treatment Plant												
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
As (mg/L)	0.5	0.0115	0.0109	0.0133	0.0078	0.0088	0.0102	0.0067	0.0215	0.0134	0.0204	0.0609	0.0185
Cu (mg/L)	0.3	0.0164	0.0083	0.0050	0.0094	0.0068	0.0115	0.0082	0.0100	0.0097	0.0103	0.0080	0.0063
CN (mg/L)	1.0	NMR	NMR	0.0060	NMR	0.0230	NMR	0.0010	0.0010	NMR	0.0080	NMR	NMR
Pb (mg/L)	0.2	0.0150	0.0150	0.0150	0.0150	0.0150	0.0150	0.0150	0.0150	0.0150	0.0150	0.0188	0.0150
Ni (mg/L)	0.5	0.2160	0.3200	0.1950	0.1980	0.1525	0.1875	0.0530	0.0355	0.0367	0.0738	0.0778	0.1363
Zn (mg/L)	0.5	0.0124	0.0113	0.0158	0.0102	0.0050	0.0050	0.0050	0.0050	0.0050	0.0080	0.0063	0.0143
TSS (mg/L)	15	3.12	2.30	2.10	2.96	2.10	4.70	3.28	5.65	10.80	1.40	5.50	0.60
Ra-226 (Bq/L)	0.37	NMR	NMR	0.0700	NMR	0.0600	NMR	0.1100	0.0800	NMR	0.0800	NMR	NMR
pH low	≥6.0	7.2	7.7	7.6	7.8	7.8	7.8	6.8	6.5	6.5	6.7	6.5	6.6
pH high	≤9.5	7.6	12.3	7.7	8.4	8.1	8.1	8.5	7.1	6.6	7.7	7.4	7.1
Flow (m ³ /month)	—	25 105	16 380	22 519	24 290	26 089	21 702	31 549	52 134	23 266	26 815	35 483	15 642
Rainbow Trout	Pass	NMR	1	NMR	NMR	1	NMR	NMR	1	NMR	1	NMR	NMR
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
<i>Daphnia magna</i>	Pass	NMR	1	NMR	NMR	1	NMR	NMR	1	NMR	-	NMR	NMR
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	1	-	-
Comments:													
Notes: ND: No Deposit NMR: No Measurement Required Pass: ≤50% Mortality Fail: >50% Mortality Highlighted data indicate that a monthly effluent quality standard was exceeded for that month. A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement.													

Metal Mining Effluent Regulations (MMER) 2008 Effluent Compliance

Mine/Mill Name	Black Fox Mine												
Operator Name	Apollo Gold Corporation												
Product(s)	Gold												
Address	Highway 101, P.O. Box 605, Matheson, Ontario P0K 1N0												
Effluent Discharge Point	Salve Creek Transitional Period Discharge Point												
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.
As (mg/L)	0.5	-	-	-	-	-	-	-	-	-	-	-	0.0963
Cu (mg/L)	0.3	-	-	-	-	-	-	-	-	-	-	-	0.0016
CN (mg/L)	1.0	-	-	-	-	-	-	-	-	-	-	-	NMR
Pb (mg/L)	0.2	-	-	-	-	-	-	-	-	-	-	-	0.0005
Ni (mg/L)	0.5	-	-	-	-	-	-	-	-	-	-	-	0.0515
Zn (mg/L)	0.5	-	-	-	-	-	-	-	-	-	-	-	0.0042
TSS (mg/L)	15	-	-	-	-	-	-	-	-	-	-	-	1.40
Ra-226 (Bq/L)	0.37	-	-	-	-	-	-	-	-	-	-	-	0.0050
pH low	≥6.0	-	-	-	-	-	-	-	-	-	-	-	7.2
pH high	≤9.5	-	-	-	-	-	-	-	-	-	-	-	7.8
Flow (m ³ /month)	—	-	-	-	-	-	-	-	-	-	-	-	13 300
Rainbow Trout	Pass	-	-	-	-	-	-	-	-	-	-	-	1
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
<i>Daphnia magna</i>	Pass	-	-	-	-	-	-	-	-	-	-	-	1
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
Comments:	The mine became subject to the MMER in December 2008.												
Notes: ND: No Deposit	NMR: No Measurement Required												
Highlighted data indicate that a monthly effluent quality standard was exceeded for that month.	Pass: ≤50% Mortality												
A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement.	Fail: >50% Mortality												

Metal Mining Effluent Regulations (MMER) 2008 Effluent Compliance

Mine/Mill Name	Bouchard-Hébert (Mine)												
Operator Name	Ressources Breakwater Ltée												
Product(s)	Zinc-Copper-Gold-Silver												
Address	596 Rang des Ponts, Cléricy, Quebec J0Z 1P0												
Effluent Discharge Point	Polishing Pond – Final Effluent												
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.
As (mg/L)	0.5	ND	ND	ND	0.0008	0.0004	ND	0.0007	ND	ND	0.0003	0.0005	ND
Cu (mg/L)	0.3	ND	ND	ND	0.0120	0.0064	ND	0.0079	ND	ND	0.0036	0.0101	ND
CN (mg/L)	1.0	ND	ND	ND	0.0000	0.0000	ND	0.0000	ND	ND	0.0000	0.0000	ND
Pb (mg/L)	0.2	ND	ND	ND	0.0008	0.0015	ND	0.0003	ND	ND	0.0006	0.0007	ND
Ni (mg/L)	0.5	ND	ND	ND	0.0088	0.0046	ND	0.0030	ND	ND	0.0009	0.0013	ND
Zn (mg/L)	0.5	ND	ND	ND	0.3325	0.0953	ND	0.0125	ND	ND	0.0220	0.0603	ND
TSS (mg/L)	15	ND	ND	ND	8.00	5.00	ND	5.25	ND	ND	2.13	2.17	ND
Ra-226 (Bq/L)	0.37	ND	ND	ND	NMR	0.0010	ND	0.0060	ND	ND	0.0010	NMR	ND
pH low	≥6.0	ND	ND	ND	6.8	7.7	ND	7.5	ND	ND	7.1	7.5	ND
pH high	≤9.5	ND	ND	ND	7.2	7.8	ND	7.7	ND	ND	7.7	7.9	ND
Flow (m ³ /month)	—	ND	ND	ND	50 768	53 485	ND	43 268	ND	ND	64 650	122 175	ND
Rainbow Trout	Pass	ND	ND	ND	1	1	ND	1	ND	ND	1	1	ND
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
<i>Daphnia magna</i>	Pass	ND	ND	ND	-	1	ND	1	ND	ND	1	1	ND
Monitoring Test	Fail	-	-	-	1	-	-	-	-	-	-	-	-
Comments:													
Notes: ND: No Deposit NMR: No Measurement Required Pass: ≤50% Mortality Fail: >50% Mortality Highlighted data indicate that a monthly effluent quality standard was exceeded for that month. A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement.													

Metal Mining Effluent Regulations (MMER) 2008 Effluent Compliance

Mine/Mill Name	Brunswick No. 12												
Operator Name	Xstrata Canada Corporation – Xstrata Zinc Canada Division												
Product(s)	Lead-Zinc-Copper-Silver												
Address	P.O. Box 3000, Bathurst, New Brunswick E2A 3Z8												
Effluent Discharge Point	3333 Final Effluent												
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
As (mg/L)	0.5	0.0200	0.0225	0.0200	0.0200	0.0200	0.0200	0.0200	0.0154	0.0200	0.0200	0.0153	0.0161
Cu (mg/L)	0.3	0.0100	0.0600	0.0050	0.0080	0.0125	0.0100	0.0100	0.0103	0.0125	0.0100	0.0253	0.0234
CN (mg/L)	1.0	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR
Pb (mg/L)	0.2	0.0100	0.0081	0.0100	0.0120	0.0100	0.0100	0.0100	0.0126	0.0100	0.0100	0.0076	0.0086
Ni (mg/L)	0.5	0.0120	0.0150	0.0100	0.0140	0.0100	0.0100	0.0090	0.0079	0.0150	0.0100	0.0154	0.0063
Zn (mg/L)	0.5	0.2640	0.3450	0.2450	0.2200	0.1356	0.1150	0.1280	0.2500	0.1925	0.1250	0.4973	0.3180
TSS (mg/L)	15	2.76	3.05	2.58	1.96	0.88	1.98	2.04	1.85	2.83	2.18	8.30	5.28
Ra-226 (Bq/L)	0.37	NMR	0.0050	NMR	NMR	0.0050	NMR	NMR	0.0100	NMR	NMR	0.0050	NMR
pH low	≥6.0	9.0	8.9	9.0	9.1	8.7	8.6	8.8	8.7	8.3	8.4	8.5	8.9
pH high	≤9.5	9.1	9.2	9.4	9.2	9.2	9.1	9.0	9.2	9.1	9.0	8.9	9.0
Flow (m ³ /month)	—	1 058 352	880 420	822 898	1 674 049	1 128 683	758 760	839 210	1 701 249	940 120	854 086	1 401 693	2 096 536
Rainbow Trout	Pass	1	1	1	1	1	1	1	1	2	1	1	1
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	1	-	-	-
<i>Daphnia magna</i>	Pass	1	1	1	-	1	1	1	1	3	1	1	1
Monitoring Test	Fail	-	-	-	1	-	-	-	-	-	-	-	-
Comments:													
Notes: ND: No Deposit NMR: No Measurement Required Pass: ≤50% Mortality Fail: >50% Mortality Highlighted data indicate that a monthly effluent quality standard was exceeded for that month. A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement.													

Metal Mining Effluent Regulations (MMER) 2008 Effluent Compliance

Mine/Mill Name	Bucko Lake Mine												
Operator Name	Crowflight Minerals Inc.												
Product(s)	Nickel												
Address	P.O. 239, 371 Flemming Drive, Wadowden, Manitoba R0B 1S0												
Effluent Discharge Point	Settling Pond Discharge												
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
As (mg/L)	0.5	-	-	0.0050	0.0050	0.0050	0.0050	0.0050	0.0050	0.0050	0.0050	0.0050	ND
Cu (mg/L)	0.3	-	-	0.0010	0.0010	0.0010	0.0032	0.0020	0.0020	0.0024	0.0010	0.0010	ND
CN (mg/L)	1.0	-	-	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	ND
Pb (mg/L)	0.2	-	-	0.0060	0.0050	0.0050	0.0050	0.0050	0.0050	0.0050	0.0050	0.0050	ND
Ni (mg/L)	0.5	-	-	0.0103	0.0215	0.0480	0.0808	0.0453	0.0260	0.0774	0.2500	0.2500	ND
Zn (mg/L)	0.5	-	-	0.0318	0.0210	0.0100	0.0114	0.0128	0.0128	0.0074	0.0073	0.0073	ND
TSS (mg/L)	15	-	-	15.00	15.25	12.50	11.00	16.25	13.00	28.00	33.00	33.00	ND
Ra-226 (Bq/L)	0.37	-	-	0.7360	0.4325	0.4950	0.2160	0.1150	0.4475	0.5060	0.1933	0.1933	ND
pH low	≥6.0	-	-	7.8	7.7	7.5	7.7	7.6	7.8	7.7	7.4	7.4	ND
pH high	≤9.5	-	-	7.9	7.9	7.7	7.8	7.7	7.9	7.8	7.7	7.7	ND
Flow (m ³ /month)	—	-	-	13 882	15 230	12 215	16 537	23 794	22 074	27 147	18 067	18 067	ND
Rainbow Trout	Pass	-	-	1	1	1	1	1	1	1	1	1	ND
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
<i>Daphnia magna</i>	Pass	-	-	-	1	-	1	1	-	-	-	-	ND
Monitoring Test	Fail	-	-	1	-	1	-	-	1	1	1	1	-
Comments:	The mine became subject to the MMER in March 2008.												
Notes:	ND: No Deposit Highlighted data indicate that a monthly effluent quality standard was exceeded for that month. A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement.												
	NMR: No Measurement Required Pass: ≤50% Mortality Fail: >50% Mortality												

Metal Mining Effluent Regulations (MMER) 2008 Effluent Compliance

Mine/Mill Name	Camflo (Mill)												
Operator Name	Mines Richmond Inc.												
Product(s)	Gold												
Address	100 Road 117, P.O. Box 640, Malartic, Quebec J0Y 1Z0												
Effluent Discharge Point	Final Effluent												
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
As (mg/L)	0.5	0.0030	NMR	NMR	NMR	NMR	0.0020	NMR	0.0020	0.0030	0.0030	0.0010	NMR
Cu (mg/L)	0.3	0.0100	0.0073	0.0080	0.0094	0.0098	0.0103	0.0084	0.0055	0.0043	0.0050	0.0078	0.0102
CN (mg/L)	1.0	0.0592	0.0718	0.0593	0.0326	0.0150	0.0285	0.0310	0.0313	0.0698	0.0635	0.0516	0.0600
Pb (mg/L)	0.2	0.0010	NMR	NMR	NMR	NMR	0.0010	NMR	0.0010	0.0005	0.0005	0.0020	NMR
Ni (mg/L)	0.5	0.0122	0.0110	0.0093	0.0070	0.0120	0.0063	0.0042	0.0033	0.0039	0.0036	0.0054	0.0076
Zn (mg/L)	0.5	0.0080	NMR	NMR	NMR	NMR	0.0120	NMR	0.0005	0.0060	0.0080	0.0005	NMR
TSS (mg/L)	15	5.60	6.75	7.75	4.90	6.00	4.88	3.60	4.38	3.80	6.50	2.90	6.80
Ra-226 (Bq/L)	0.37	0.0010	NMR	NMR	NMR	NMR	0.0010	NMR	0.0010	0.0010	0.0050	NMR	NMR
pH low	≥6.0	7.0	7.1	7.1	7.1	7.4	7.5	7.3	7.2	7.7	7.4	7.4	7.1
pH high	≤9.5	7.5	7.3	7.2	7.5	7.8	7.8	7.6	7.8	7.9	7.9	7.7	7.8
Flow (m ³ /month)	—	18 043	9 396	58 144	49 075	210 366	25 704	19 642	14 173	20 650	25 110	127 699	46 872
Rainbow Trout	Pass	1	NMR	NMR	NMR	NMR	1	NMR	1	1	1	NMR	NMR
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
<i>Daphnia magna</i>	Pass	1	NMR	NMR	NMR	NMR	1	NMR	1	1	1	NMR	NMR
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
Comments:													
Notes: ND: No Deposit NMR: No Measurement Required Pass: ≤50% Mortality Fail: >50% Mortality Highlighted data indicate that a monthly effluent quality standard was exceeded for that month. A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement.													

Metal Mining Effluent Regulations (MMER) 2008 Effluent Compliance

Mine/Mill Name	Campbell Mine												
Operator Name	Goldcorp Inc.												
Product(s)	Gold												
Address	P.O. Box 2000, 10 Mine Road, Balmertown, Ontario P0V 1C0												
Effluent Discharge Point	WETOUT												
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
As (mg/L)	0.5	ND	ND	ND	ND	0.0233	0.0196	0.0202	0.0181	0.0112	0.0081	ND	ND
Cu (mg/L)	0.3	ND	ND	ND	ND	0.0073	0.0056	0.0043	0.0025	0.0035	0.0030	ND	ND
CN (mg/L)	1.0	ND	ND	ND	ND	0.0420	0.0374	0.0446	0.0299	0.0295	0.0462	ND	ND
Pb (mg/L)	0.2	ND	ND	ND	ND	0.0004	0.0003	0.0005	0.0003	0.0003	0.0003	ND	ND
Ni (mg/L)	0.5	ND	ND	ND	ND	0.0683	0.0832	0.0612	0.0324	0.0412	0.0704	ND	ND
Zn (mg/L)	0.5	ND	ND	ND	ND	0.0242	0.0221	0.0292	0.0312	0.0215	0.0261	ND	ND
TSS (mg/L)	15	ND	ND	ND	ND	2.00	1.57	1.23	1.15	1.00	1.21	ND	ND
Ra-226 (Bq/L)	0.37	ND	ND	ND	ND	0.0025	0.0038	0.0060	0.0100	0.0090	0.0100	ND	ND
pH low	≥6.0	ND	ND	ND	ND	7.4	6.8	6.5	6.7	7.1	7.1	ND	ND
pH high	≤9.5	ND	ND	ND	ND	8.0	7.6	7.2	7.4	7.6	7.4	ND	ND
Flow (m ³ /month)	—	ND	ND	ND	ND	59 378	383 069	487 333	529 251	409 365	233 031	ND	ND
Rainbow Trout	Pass	ND	ND	ND	ND	1	2	1	1	1	1	ND	ND
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
<i>Daphnia magna</i>	Pass	ND	ND	ND	ND	1	2	1	1	1	1	ND	ND
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
Comments:													
Notes: ND: No Deposit NMR: No Measurement Required Pass: ≤50% Mortality Fail: >50% Mortality Highlighted data indicate that a monthly effluent quality standard was exceeded for that month. A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement.													

Metal Mining Effluent Regulations (MMER) 2008 Effluent Compliance

Mine/Mill Name	Cantung Mine												
Operator Name	North American Tungsten Corporation Ltd.												
Product(s)	Tungsten												
Address	P.O. Box 856, Watson Lake, Yukon Y0A 1C0												
Effluent Discharge Point	4-27-2 Culvert												
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
As (mg/L)	0.5	0.0003	0.0003	0.0002	0.0003	0.0006	0.0005	0.0006	0.0005	0.0004	0.0005	0.0004	0.0004
Cu (mg/L)	0.3	0.0005	0.0005	0.0005	0.0004	0.0006	0.0006	0.0004	0.0004	0.0006	0.0004	0.0003	0.0002
CN (mg/L)	1.0	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR
Pb (mg/L)	0.2	0.0001	0.0001	0.0001	0.0001	0.0001	0.0002	0.0001	0.0000	0.0000	0.0001	0.0001	0.0001
Ni (mg/L)	0.5	0.0008	0.0008	0.0005	0.0008	0.0008	0.0005	0.0007	0.0011	0.0007	0.0011	0.0007	0.0010
Zn (mg/L)	0.5	0.0026	0.0020	0.0038	0.0032	0.0031	0.0035	0.0029	0.0029	0.0022	0.0031	0.0020	0.0031
TSS (mg/L)	15	3.00	3.00	3.02	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.26	3.00
Ra-226 (Bq/L)	0.37	0.0096	0.0048	0.0071	0.0044	0.0038	0.0068	0.0044	NMR	NMR	0.0080	NMR	NMR
pH low	≥6.0	8.0	7.9	7.9	7.1	7.9	8.0	8.0	8.0	8.0	7.7	7.8	8.0
pH high	≤9.5	8.1	8.0	8.0	8.1	8.2	8.2	8.2	8.2	8.2	8.2	8.1	8.1
Flow (m ³ /month)	—	30 130	26 273	32 869	35 568	48 404	125 299	103 068	88 257	86 576	89 761	64 777	84 839
Rainbow Trout	Pass	1	1	1	1	1	1	1	NMR	NMR	1	NMR	NMR
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
<i>Daphnia magna</i>	Pass	1	1	1	1	1	1	1	NMR	NMR	1	NMR	NMR
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
Comments:													
Notes: ND: No Deposit NMR: No Measurement Required Pass: ≤50% Mortality Fail: >50% Mortality Highlighted data indicate that a monthly effluent quality standard was exceeded for that month. A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement.													

Metal Mining Effluent Regulations (MMER) 2008 Effluent Compliance

Mine/Mill Name	Cantung Mine												
Operator Name	North American Tungsten Corporation Ltd.												
Product(s)	Tungsten												
Address	P.O. Box 856, Watson Lake, Yukon Y0A 1C0												
Effluent Discharge Point	Polishing Pond Four												
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
As (mg/L)	0.5	0.0003	0.0003	0.0003	0.0003	0.0003	0.0005	0.0005	0.0005	0.0005	0.0005	0.0007	0.0003
Cu (mg/L)	0.3	0.0004	0.0004	0.0004	0.0006	0.0003	0.0004	0.0002	0.0002	0.0005	0.0003	0.0006	0.0007
CN (mg/L)	1.0	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR
Pb (mg/L)	0.2	0.0001	0.0001	0.0001	0.0001	0.0001	0.0002	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001
Ni (mg/L)	0.5	0.0073	0.0125	0.0100	0.0098	0.0082	0.0143	0.0084	0.0079	0.0092	0.0068	0.0087	0.0079
Zn (mg/L)	0.5	0.0138	0.0143	0.0215	0.0290	0.0234	0.0188	0.0167	0.0149	0.0153	0.0119	0.0147	0.0143
TSS (mg/L)	15	3.00	3.00	3.06	3.43	3.00	3.00	3.00	3.00	3.00	3.00	3.00	4.90
Ra-226 (Bq/L)	0.37	0.0100	0.0059	0.0062	0.0113	0.0061	0.0057	0.0069	NMR	NMR	0.0025	NMR	NMR
pH low	≥6.0	7.9	8.0	8.0	7.7	8.0	7.9	8.0	8.0	8.0	8.1	7.9	8.0
pH high	≤9.5	8.1	8.0	8.0	8.1	8.2	8.2	8.2	8.2	8.2	8.3	8.1	8.1
Flow (m³/month)	—	115 201	113 756	97 378	114 696	109 659	136 670	140 518	136 646	123 661	140 339	132 312	154 903
Rainbow Trout	Pass	1	1	1	1	1	1	1	1	1	1	1	1
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
Daphnia magna	Pass	1	1	1	1	1	1	1	1	1	1	1	1
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
Comments:													
Notes: ND: No Deposit NMR: No Measurement Required Pass: ≤50% Mortality Fail: >50% Mortality Highlighted data indicate that a monthly effluent quality standard was exceeded for that month. A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement.													

Metal Mining Effluent Regulations (MMER) 2008 Effluent Compliance

Mine/Mill Name	Cantung Mine												
Operator Name	North American Tungsten Corporation Ltd.												
Product(s)	Tungsten												
Address	P.O. Box 856, Watson Lake, Yukon Y0A 1C0												
Effluent Discharge Point	Settling Pond 5-2												
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.
As (mg/L)	0.5	ND	ND	ND	ND	ND	0.0003	ND	ND	ND	ND	ND	ND
Cu (mg/L)	0.3	ND	ND	ND	ND	ND	0.0024	ND	ND	ND	ND	ND	ND
CN (mg/L)	1.0	ND	ND	ND	ND	ND	NMR	ND	ND	ND	ND	ND	ND
Pb (mg/L)	0.2	ND	ND	ND	ND	ND	0.0002	ND	ND	ND	ND	ND	ND
Ni (mg/L)	0.5	ND	ND	ND	ND	ND	0.0003	ND	ND	ND	ND	ND	ND
Zn (mg/L)	0.5	ND	ND	ND	ND	ND	0.0053	ND	ND	ND	ND	ND	ND
TSS (mg/L)	15	ND	ND	ND	ND	ND	3.50	ND	ND	ND	ND	ND	ND
Ra-226 (Bq/L)	0.37	ND	ND	ND	ND	ND	0.0053	ND	ND	ND	ND	ND	ND
pH low	≥6.0	ND	ND	ND	ND	ND	8.1	ND	ND	ND	ND	ND	ND
pH high	≤9.5	ND	ND	ND	ND	ND	8.3	ND	ND	ND	ND	ND	ND
Flow (m ³ /month)	—	ND	ND	ND	ND	ND	4 727	ND	ND	ND	ND	ND	ND
Rainbow Trout	Pass	ND	ND	ND	ND	ND	1	ND	ND	ND	ND	ND	ND
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
<i>Daphnia magna</i>	Pass	ND	ND	ND	ND	ND	1	ND	ND	ND	ND	ND	ND
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
Comments:													
Notes: ND: No Deposit NMR: No Measurement Required Pass: ≤50% Mortality Fail: >50% Mortality Highlighted data indicate that a monthly effluent quality standard was exceeded for that month. A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement.													

Metal Mining Effluent Regulations (MMER) 2008 Effluent Compliance

Mine/Mill Name	Caribou Mine – Mill												
Operator Name	Blue Note Mining Inc.												
Product(s)	Zinc-Lead-Silver-Copper-Gold												
Address	9361 Route 180, P.O. Box 26, Bathurst, New Brunswick E2A 3Z1												
Effluent Discharge Point	Polishing Pond Effluent												
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
As (mg/L)	0.5	0.0065	0.0105	0.0200	0.0153	0.0200	0.0200	0.0104	0.0165	0.0200	0.0200	0.0200	0.0200
Cu (mg/L)	0.3	0.0625	0.0125	0.0170	0.0153	0.0203	0.0243	0.0126	0.0223	0.0274	0.0343	0.0285	0.0214
CN (mg/L)	1.0	2.4500	0.5000	2.6025	0.0950	0.1000	0.0288	0.0050	0.0050	0.0050	0.0050	0.0050	0.0050
Pb (mg/L)	0.2	0.0050	0.0038	0.1250	0.0073	0.1188	0.0985	0.0172	0.1998	0.1894	0.0538	0.0515	0.0394
Ni (mg/L)	0.5	0.0058	0.0055	0.0100	0.0078	0.0100	0.0100	0.0046	0.0078	0.0100	0.0078	0.0100	0.0100
Zn (mg/L)	0.5	0.0513	0.0770	0.2300	0.1001	0.1018	0.1850	0.0658	0.1140	0.1960	0.1413	0.0883	0.1282
TSS (mg/L)	15	5.00	1.01	1.25	2.50	1.75	3.25	3.20	4.50	1.40	1.50	0.88	1.40
Ra-226 (Bq/L)	0.37	0.0550	0.0095	0.0300	0.0118	0.0225	0.0200	0.0089	0.0375	0.0460	0.0325	0.0300	0.0220
pH low	≥6.0	6.9	6.6	7.1	6.4	6.9	6.6	6.9	7.2	7.1	7.0	7.2	7.3
pH high	≤9.5	8.0	6.7	7.2	6.9	7.5	7.1	7.5	7.7	7.2	7.3	7.7	7.5
Flow (m ³ /month)	—	652 864	280 281	1 124 145	18 368	1 533 743	120 194	15 102	412 314	105 028	97 474	194 836	149 017
Rainbow Trout	Pass	-	-	-	2	1	1	1	1	1	1	1	1
Acute Lethality Test	Fail	1	1	1	-	1	-	-	-	-	-	-	-
<i>Daphnia magna</i>	Pass	-	1	-	1	-	1	1	-	1	1	1	1
Monitoring Test	Fail	1	-	1	-	2	-	-	1	-	-	-	-
Comments:	Mine in care and maintenance.												
Notes:	ND: No Deposit NMR: No Measurement Required Highlighted data indicate that a monthly effluent quality standard was exceeded for that month. A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement.												
	Pass: ≤50% Mortality Fail: >50% Mortality												

Metal Mining Effluent Regulations (MMER) 2008 Effluent Compliance

Mine/Mill Name	Casa Berardi (Mine)												
Operator Name	Mines Aurizon Ltée												
Product(s)	Gold												
Address	659 2nd Street East, La Sarre, Quebec J9Z 2Y9												
Effluent Discharge Point	Final Effluent – Point A												
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
As (mg/L)	0.5	ND	ND	ND	ND	ND	ND	0.1201	-	0.1610	0.1568	0.1031	0.0902
Cu (mg/L)	0.3	ND	ND	ND	ND	ND	ND	0.0341	-	0.0248	0.0301	0.0471	0.1387
CN (mg/L)	1.0	ND	ND	ND	ND	ND	ND	0.0657	-	0.0100	0.0065	0.0490	0.0680
Pb (mg/L)	0.2	ND	ND	ND	ND	ND	ND	0.0014	-	0.0003	0.0005	0.0011	0.0015
Ni (mg/L)	0.5	ND	ND	ND	ND	ND	ND	0.0116	-	0.0003	0.0096	0.0239	0.0467
Zn (mg/L)	0.5	ND	ND	ND	ND	ND	ND	0.0073	-	0.0080	0.0018	0.0080	0.0100
TSS (mg/L)	15	ND	ND	ND	ND	ND	ND	8.33	-	1.00	1.25	3.83	1.25
Ra-226 (Bq/L)	0.37	ND	ND	ND	ND	ND	ND	0.0030	-	0.0020	0.0050	0.0017	0.0040
pH low	≥6.0	ND	ND	ND	ND	ND	ND	6.8	-	7.8	7.1	7.0	7.0
pH high	≤9.5	ND	ND	ND	ND	ND	ND	7.3	-	7.8	7.6	7.4	7.2
Flow (m ³ /month)	—	ND	ND	ND	ND	ND	ND	722 665	279 859	16 018	414 559	261 548	76 962
Rainbow Trout	Pass	ND	ND	ND	ND	ND	ND	2	-	1	3	1	1
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
<i>Daphnia magna</i>	Pass	ND	ND	ND	ND	ND	ND	2	-	1	3	1	-
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	-	-	1
Comments:	Only flow measurement was provided in August since the mine reported discharge of effluent during only five days.												
Notes:	ND: No Deposit NMR: No Measurement Required Highlighted data indicate that a monthly effluent quality standard was exceeded for that month. A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement.												
	Pass: ≤50% Mortality Fail: >50% Mortality												

Metal Mining Effluent Regulations (MMER) 2008 Effluent Compliance

Mine/Mill Name	Chisel North Mine												
Operator Name	Hudson Bay Mining and Smelting Co. Ltd.												
Product(s)	Zinc												
Address	P.O. Box 130, Snow Lake, Manitoba R0B 1M0												
Effluent Discharge Point	Chisel North Mine Discharge												
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
As (mg/L)	0.5	0.0006	0.0006	0.0007	0.0006	0.0006	0.0012	0.0004	0.0005	0.0007	0.0006	0.0003	0.0004
Cu (mg/L)	0.3	0.0090	0.0070	0.0076	0.0051	0.0051	0.0049	0.0075	0.0050	0.0101	0.0043	0.0110	0.0082
CN (mg/L)	1.0	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR
Pb (mg/L)	0.2	0.0055	0.0158	0.0046	0.0058	0.0061	0.0051	0.0048	0.0086	0.0035	0.0075	0.0105	0.0140
Ni (mg/L)	0.5	0.0034	0.0030	0.0040	0.0034	0.0048	0.0093	0.0074	0.0080	0.0090	0.0080	0.0103	0.0088
Zn (mg/L)	0.5	0.3206	0.3206	0.1963	0.2428	0.2473	0.4218	0.3108	0.2505	0.2755	0.3918	0.3828	0.3524
TSS (mg/L)	15	1.64	5.51	2.91	4.06	1.25	2.44	1.07	0.95	3.65	4.14	3.01	4.36
Ra-226 (Bq/L)	0.37	0.1325	0.1600	0.0775	0.0780	0.0525	0.0345	0.0480	0.0625	0.0320	0.0575	0.0800	0.0260
pH low	≥6.0	8.1	8.2	8.2	7.8	8.3	7.2	7.9	8.6	8.4	8.2	8.2	8.0
pH high	≤9.5	8.9	8.7	9.2	9.2	9.3	8.7	9.4	9.0	8.9	8.9	8.7	8.2
Flow (m ³ /month)	—	71 703	54 455	58 335	79 394	118 016	51 295	232 752	237 054	240 835	199 714	276 461	252 225
Rainbow Trout	Pass	1	NMR	NMR	NMR	1	NMR	1	NMR	NMR	1	NMR	NMR
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
<i>Daphnia magna</i>	Pass	1	NMR	NMR	NMR	1	NMR	1	NMR	NMR	1	NMR	NMR
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
Comments:													
Notes: ND: No Deposit NMR: No Measurement Required Pass: ≤50% Mortality Fail: >50% Mortality Highlighted data indicate that a monthly effluent quality standard was exceeded for that month. A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement.													

Metal Mining Effluent Regulations (MMER) 2008 Effluent Compliance

Mine/Mill Name	Cigar Lake Project												
Operator Name	Cameco Corporation												
Product(s)	Uranium												
Address	2121 – 11th Street West, Saskatoon, Saskatchewan S7M 1J3												
Effluent Discharge Point	Station 2.2												
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
As (mg/L)	0.5	ND	ND	ND	ND	0.0004	0.0006	0.0011	0.0007	0.0005	0.0004	0.0014	0.0006
Cu (mg/L)	0.3	ND	ND	ND	ND	0.0019	0.0056	0.0036	0.0014	0.0015	0.0014	0.0045	0.0027
CN (mg/L)	1.0	ND	ND	ND	ND	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR
Pb (mg/L)	0.2	ND	ND	ND	ND	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001
Ni (mg/L)	0.5	ND	ND	ND	ND	0.0059	0.0043	0.0041	0.0018	0.0024	0.0040	0.0075	0.0033
Zn (mg/L)	0.5	ND	ND	ND	ND	0.0352	0.0310	0.0336	0.0371	0.0323	0.1120	0.0336	0.0565
TSS (mg/L)	15	ND	ND	ND	ND	2.33	1.00	2.05	1.65	0.50	0.50	0.75	1.50
Ra-226 (Bq/L)	0.37	ND	ND	ND	ND	0.0040	0.0044	0.0028	0.0027	0.0025	0.0113	0.0031	0.0025
pH low	≥6.0	ND	ND	ND	ND	7.0	7.4	6.9	6.9	7.1	7.4	7.0	7.2
pH high	≤9.5	ND	ND	ND	ND	7.6	7.6	8.8	7.4	7.5	7.4	7.8	7.4
Flow (m ³ /month)	—	ND	ND	ND	ND	16 920	17 025	33 137	40 757	11 966	5 184	25 902	6 827
Rainbow Trout	Pass	ND	ND	ND	ND	1	NMR	1	1	NMR	1	NMR	NMR
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
<i>Daphnia magna</i>	Pass	ND	ND	ND	ND	1	NMR	1	1	NMR	1	NMR	NMR
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
Comments:													
Notes: ND: No Deposit NMR: No Measurement Required Pass: ≤50% Mortality Fail: >50% Mortality Highlighted data indicate that a monthly effluent quality standard was exceeded for that month. A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement.													

Metal Mining Effluent Regulations (MMER) 2008 Effluent Compliance

Mine/Mill Name	Clavos Mine												
Operator Name	St Andrew Goldfields Ltd.												
Product(s)	Gold												
Address	Finn Road, German Township, Ontario P0K 1N0												
Effluent Discharge Point	Clavos Mine Drainage Area												
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.
As (mg/L)	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Cu (mg/L)	0.3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
CN (mg/L)	1.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Pb (mg/L)	0.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ni (mg/L)	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Zn (mg/L)	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
TSS (mg/L)	15	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ra-226 (Bq/L)	0.37	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
pH low	≥6.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
pH high	≤9.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Flow (m ³ /month)	—	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Rainbow Trout	Pass	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
<i>Daphnia magna</i>	Pass	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
Comments:													
Notes: ND: No Deposit NMR: No Measurement Required Pass: ≤50% Mortality Fail: >50% Mortality Highlighted data indicate that a monthly effluent quality standard was exceeded for that month. A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement.													

Metal Mining Effluent Regulations (MMER) 2008 Effluent Compliance

Mine/Mill Name	Clavos Mine												
Operator Name	St Andrew Goldfields Ltd.												
Product(s)	Gold												
Address	Finn Road, German Township, Ontario P0K 1N0												
Effluent Discharge Point	Sediment Pond												
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.
As (mg/L)	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Cu (mg/L)	0.3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
CN (mg/L)	1.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Pb (mg/L)	0.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ni (mg/L)	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Zn (mg/L)	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
TSS (mg/L)	15	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ra-226 (Bq/L)	0.37	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
pH low	≥6.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
pH high	≤9.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Flow (m ³ /month)	—	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Rainbow Trout	Pass	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
<i>Daphnia magna</i>	Pass	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
Comments:													
Notes: ND: No Deposit NMR: No Measurement Required Pass: ≤50% Mortality Fail: >50% Mortality Highlighted data indicate that a monthly effluent quality standard was exceeded for that month. A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement.													

Metal Mining Effluent Regulations (MMER) 2008 Effluent Compliance

Mine/Mill Name	Complexe métallurgique Sorel-Tracy												
Operator Name	QIT-Fer et Titane Inc.												
Product(s)	Iron-Titanium												
Address	1625 Marie-Victorin Road, Sorel-Tracy, Quebec J3R 1M6												
Effluent Discharge Point	Final Effluent QIT (Point 1.4)												
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
As (mg/L)	0.5	-	-	-	-	0.0005	0.0005	0.0005	0.0005	0.0005	0.0006	0.0005	0.0005
Cu (mg/L)	0.3	-	-	-	-	0.0300	0.0163	0.0230	0.0130	0.0260	0.0175	0.0138	0.0320
CN (mg/L)	1.0	-	-	-	-	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR
Pb (mg/L)	0.2	-	-	-	-	0.0050	0.0040	0.0050	0.0050	0.0042	0.0050	0.0050	0.0070
Ni (mg/L)	0.5	-	-	-	-	0.0350	0.0138	0.0280	0.0160	0.0286	0.0225	0.0200	0.0320
Zn (mg/L)	0.5	-	-	-	-	0.0650	0.0875	0.1220	0.0600	0.1120	0.1375	0.1150	0.3300
TSS (mg/L)	15	-	-	-	59.00	40.30	33.58	37.10	31.77	35.98	56.58	46.53	83.58
Ra-226 (Bq/L)	0.37	-	-	-	-	0.5015	0.0025	0.0079	0.0029	0.0031	0.0031	0.0035	0.0083
pH low	≥6.0	-	-	-	7.8	8.0	8.1	8.0	8.1	7.6	7.5	7.1	7.7
pH high	≤9.5	-	-	-	8.0	8.1	8.2	8.2	8.3	8.1	8.4	8.2	7.9
Flow (m ³ /month)	—	-	-	-	-	5 420 389	4 972 130	5 276 072	5 216 571	4 938 225	4 919 729	5 079 926	7 154 827
Rainbow Trout	Pass	-	-	-	-	1	1	1	1	1	1	1	1
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
<i>Daphnia magna</i>	Pass	-	-	-	-	1	1	1	1	1	1	1	1
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
Comments:	The mine became subject to the MMER on April 21, 2008. Only pH range and TSS results were provided for April.												
Notes:	ND: No Deposit NMR: No Measurement Required Highlighted data indicate that a monthly effluent quality standard was exceeded for that month. A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement.												
	Pass: ≤50% Mortality Fail: >50% Mortality												

Metal Mining Effluent Regulations (MMER) 2008 Effluent Compliance

Mine/Mill Name	Con Mine												
Operator Name	Miramar Mining Corporation												
Product(s)	Gold												
Address	P.O. Box 2000, Yellowknife, Northwest Territories X1A 2M1												
Effluent Discharge Point	Surveillance Network Program Station 40-1												
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.
As (mg/L)	0.5	ND	ND	ND	ND	ND	ND	0.3265	0.1430	ND	ND	ND	ND
Cu (mg/L)	0.3	ND	ND	ND	ND	ND	ND	0.0120	0.0053	ND	ND	ND	ND
CN (mg/L)	1.0	ND	ND	ND	ND	ND	ND	0.1409	0.1330	ND	ND	ND	ND
Pb (mg/L)	0.2	ND	ND	ND	ND	ND	ND	0.0005	0.0005	ND	ND	ND	ND
Ni (mg/L)	0.5	ND	ND	ND	ND	ND	ND	0.0080	0.0050	ND	ND	ND	ND
Zn (mg/L)	0.5	ND	ND	ND	ND	ND	ND	0.0040	0.0120	ND	ND	ND	ND
TSS (mg/L)	15	ND	ND	ND	ND	ND	ND	1.65	2.60	ND	ND	ND	ND
Ra-226 (Bq/L)	0.37	ND	ND	ND	ND	ND	ND	0.0100	0.0080	ND	ND	ND	ND
pH low	≥6.0	ND	ND	ND	ND	ND	ND	7.4	7.4	ND	ND	ND	ND
pH high	≤9.5	ND	ND	ND	ND	ND	ND	7.9	7.4	ND	ND	ND	ND
Flow (m ³ /month)	—	ND	ND	ND	ND	ND	ND	130 087	6 604	ND	ND	ND	ND
Rainbow Trout	Pass	ND	ND	ND	ND	ND	ND	1	1	ND	ND	ND	ND
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
<i>Daphnia magna</i>	Pass	ND	ND	ND	ND	ND	ND	1	1	ND	ND	ND	ND
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
Comments:													
Notes: ND: No Deposit NMR: No Measurement Required Pass: ≤50% Mortality Fail: >50% Mortality Highlighted data indicate that a monthly effluent quality standard was exceeded for that month. A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement.													

Metal Mining Effluent Regulations (MMER) 2008 Effluent Compliance

Mine/Mill Name	Copper Cliff Complex												
Operator Name	Vale Inco Ltd.												
Product(s)	Nickel-Copper-Cobalt-Platinum												
Address	155 Balsam Street, Copper Cliff, Ontario P0M 1N0												
Effluent Discharge Point	Copper Cliff Wastewater Treatment Plant												
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.
As (mg/L)	0.5	0.0020	0.0030	0.0015	0.0010	0.0010	0.0013	0.0010	0.0013	0.0013	0.0010	0.0010	0.0012
Cu (mg/L)	0.3	0.1880	0.2205	0.1328	0.1942	0.2140	0.2623	0.1767	0.1060	0.1478	0.1870	0.2410	0.2722
CN (mg/L)	1.0	0.0060	0.0010	0.0020	0.0010	0.0013	0.0010	0.0010	0.0028	0.0015	0.0010	0.0010	0.0010
Pb (mg/L)	0.2	0.0150	0.0150	0.0150	0.0140	0.0150	0.0150	0.0150	0.0150	0.0275	0.0175	0.0175	0.0150
Ni (mg/L)	0.5	0.2318	0.2508	0.3570	0.1766	0.0735	0.0833	0.0533	0.0355	0.0685	0.0745	0.1335	0.1316
Zn (mg/L)	0.5	0.0170	0.0380	0.0480	0.0078	0.0050	0.0050	0.0050	0.0050	0.0050	0.0130	0.0075	0.0050
TSS (mg/L)	15	4.20	4.35	3.45	2.28	1.60	2.60	1.40	1.00	2.05	2.10	2.40	2.37
Ra-226 (Bq/L)	0.37	0.0070	NMR	NMR	0.0180	NMR	NMR	0.0160	0.0190	NMR	NMR	0.0060	NMR
pH low	≥6.0	6.8	6.9	6.5	7.0	7.4	8.3	6.3	8.3	8.2	6.6	6.6	5.7
pH high	≤9.5	8.3	8.0	8.7	8.2	7.9	8.6	9.1	8.9	8.8	8.4	7.4	9.0
Flow (m ³ /month)	—	3 936 056	3 665 665	3 887 646	4 170 286	4 424 537	3 119 520	1 573 077	3 550 838	3 968 979	871 900	903 795	3 333 029
Rainbow Trout	Pass	1	NMR	NMR	1	NMR	NMR	1	NMR	NMR	NMR	1	NMR
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
<i>Daphnia magna</i>	Pass	1	NMR	NMR	1	NMR	NMR	1	NMR	NMR	NMR	1	NMR
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
Comments:													
Notes: ND: No Deposit NMR: No Measurement Required Pass: ≤50% Mortality Fail: >50% Mortality Highlighted data indicate that a monthly effluent quality standard was exceeded for that month. A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement.													

Metal Mining Effluent Regulations (MMER) 2008 Effluent Compliance

Mine/Mill Name	Copper Cliff Complex												
Operator Name	Vale Inco Ltd.												
Product(s)	Nickel-Copper-Cobalt-Platinum												
Address	155 Balsam Street, Copper Cliff, Ontario P0M 1N0												
Effluent Discharge Point	Nolin Creek Spillway												
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.
As (mg/L)	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Cu (mg/L)	0.3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
CN (mg/L)	1.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Pb (mg/L)	0.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ni (mg/L)	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Zn (mg/L)	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
TSS (mg/L)	15	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ra-226 (Bq/L)	0.37	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
pH low	≥6.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
pH high	≤9.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Flow (m ³ /month)	—	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Rainbow Trout	Pass	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
<i>Daphnia magna</i>	Pass	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
Comments:													
Notes: ND: No Deposit NMR: No Measurement Required Pass: ≤50% Mortality Fail: >50% Mortality Highlighted data indicate that a monthly effluent quality standard was exceeded for that month. A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement.													

Metal Mining Effluent Regulations (MMER) 2008 Effluent Compliance

Mine/Mill Name	Copper Cliff Complex												
Operator Name	Vale Inco Ltd.												
Product(s)	Nickel-Copper-Cobalt-Platinum												
Address	155 Balsam Street, Copper Cliff, Ontario P0M 1N0												
Effluent Discharge Point	Nolin Creek Wastewater Treatment Plant												
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.
As (mg/L)	0.5	0.0010	0.0010	0.0010	0.0010	0.0010	0.0010	0.0010	0.0010	0.0010	0.0010	ND	0.0010
Cu (mg/L)	0.3	0.0936	0.0585	0.0256	0.0378	0.0088	0.0105	0.0153	0.0230	0.0455	0.0217	ND	0.0403
CN (mg/L)	1.0	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	ND	NMR
Pb (mg/L)	0.2	0.0100	0.0100	0.0100	0.0090	0.0100	0.0100	0.0160	0.0100	0.0100	0.0100	ND	0.0100
Ni (mg/L)	0.5	0.5446	0.3460	0.2488	0.2422	0.0980	0.1250	0.1510	0.1690	0.2010	0.1400	ND	0.2118
Zn (mg/L)	0.5	0.0132	0.0061	0.0070	0.0031	0.0025	0.0025	0.0025	0.0025	0.0043	0.0037	ND	0.0025
TSS (mg/L)	15	2.52	1.35	1.60	2.92	1.55	3.65	9.73	5.55	3.40	1.33	ND	1.75
Ra-226 (Bq/L)	0.37	0.0130	NMR	NMR	0.0140	NMR	NMR	0.0070	0.0080	NMR	0.0050	ND	NMR
pH low	≥6.0	7.5	7.7	7.2	8.5	8.1	8.4	8.3	8.6	8.6	7.9	ND	7.3
pH high	≤9.5	8.4	8.5	8.3	9.0	8.8	8.7	8.9	9.2	8.8	8.5	ND	8.7
Flow (m ³ /month)	—	602 087	430 922	520 168	732 240	755 749	555 390	217 622	503 788	301 114	286 313	ND	29 851
Rainbow Trout	Pass	1	NMR	NMR	1	NMR	NMR	1	NMR	NMR	1	ND	NMR
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
<i>Daphnia magna</i>	Pass	1	NMR	NMR	1	NMR	NMR	1	NMR	NMR	1	ND	NMR
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
Comments:													
Notes: ND: No Deposit NMR: No Measurement Required Pass: ≤50% Mortality Fail: >50% Mortality Highlighted data indicate that a monthly effluent quality standard was exceeded for that month. A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement.													

Metal Mining Effluent Regulations (MMER) 2008 Effluent Compliance

Mine/Mill Name	Copper Rand (Mine)												
Operator Name	Ressources Campbell Inc.												
Product(s)	Copper-Gold-Silver												
Address	P.O. Box 400, Chibougamau, Quebec G8P 2X8												
Effluent Discharge Point	Final Discharge Point 2.1c												
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
As (mg/L)	0.5	0.0039	NMR	NMR	NMR	0.0003	NMR	0.0018	0.0014	0.0021	0.0021	NMR	NMR
Cu (mg/L)	0.3	0.0043	0.0090	0.0042	0.0090	0.0121	0.0137	0.0229	0.0083	0.0058	0.0081	0.0059	0.0047
CN (mg/L)	1.0	0.0060	NMR	NMR	NMR	NMR	0.0060	NMR	0.0025	0.0025	0.0025	NMR	NMR
Pb (mg/L)	0.2	0.0042	NMR	NMR	NMR	NMR	0.0016	NMR	0.0007	0.0003	0.0003	NMR	NMR
Ni (mg/L)	0.5	0.0076	NMR	NMR	NMR	NMR	0.0018	NMR	0.0021	0.0003	0.0031	NMR	NMR
Zn (mg/L)	0.5	0.0020	NMR	NMR	NMR	NMR	0.0005	NMR	0.0005	0.0005	0.0005	NMR	NMR
TSS (mg/L)	15	3.75	5.25	2.40	6.63	4.00	4.80	2.88	1.88	2.00	2.00	1.25	2.30
Ra-226 (Bq/L)	0.37	0.0010	NMR	NMR	NMR	NMR	0.0090	NMR	0.0660	0.0700	0.0620	NMR	0.0045
pH low	≥6.0	7.8	7.8	7.7	7.5	7.5	7.8	7.9	7.7	7.7	7.7	7.6	7.7
pH high	≤9.5	7.9	7.9	7.9	7.8	7.9	8.0	8.0	7.9	8.0	7.8	7.7	7.8
Flow (m ³ /month)	—	169 059	133 690	97 278	122 730	186 512	164 292	139 485	88 428	90 432	184 233	203 115	164 077
Rainbow Trout	Pass	1	NMR	NMR	NMR	NMR	1	NMR	1	NMR	1	NMR	NMR
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
<i>Daphnia magna</i>	Pass	1	NMR	NMR	NMR	NMR	1	NMR	1	NMR	1	NMR	NMR
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
Comments:													
Notes: ND: No Deposit NMR: No Measurement Required Pass: ≤50% Mortality Fail: >50% Mortality Highlighted data indicate that a monthly effluent quality standard was exceeded for that month. A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement.													

Metal Mining Effluent Regulations (MMER) 2008 Effluent Compliance

Mine/Mill Name	Croinor (Mine)												
Operator Name	Ressources X-Ore Inc.												
Product(s)	Gold												
Address	1745 Sullivan Road, Suite 200, Val-d'Or, Quebec J9P 1M8												
Effluent Discharge Point	Final Effluent												
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.
As (mg/L)	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Cu (mg/L)	0.3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
CN (mg/L)	1.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Pb (mg/L)	0.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ni (mg/L)	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Zn (mg/L)	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
TSS (mg/L)	15	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ra-226 (Bq/L)	0.37	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
pH low	≥6.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
pH high	≤9.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Flow (m ³ /month)	—	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Rainbow Trout	Pass	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
<i>Daphnia magna</i>	Pass	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
Comments:													
Notes: ND: No Deposit NMR: No Measurement Required Pass: ≤50% Mortality Fail: >50% Mortality Highlighted data indicate that a monthly effluent quality standard was exceeded for that month. A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement.													

Metal Mining Effluent Regulations (MMER) 2008 Effluent Compliance

Mine/Mill Name	Doyon												
Operator Name	Gestion IAMGOLD Québec Inc.												
Product(s)	Gold												
Address	P.O. Box 970, Rouyn-Noranda, Quebec J9X 5C8												
Effluent Discharge Point	Pond A Final Effluent (D-203)												
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
As (mg/L)	0.5	0.0018	NMR	NMR	0.0025	NMR	NMR	0.0013	NMR	0.0019	NMR	0.0026	NMR
Cu (mg/L)	0.3	0.0210	0.0060	0.0115	0.0276	0.0088	0.0101	0.0217	0.0119	0.0286	0.0081	0.0122	0.0286
CN (mg/L)	1.0	0.0146	0.0160	0.0195	0.0146	0.0145	0.0070	0.0097	0.0110	0.0430	0.0260	0.0210	0.0594
Pb (mg/L)	0.2	0.0001	NMR	NMR	0.0005	NMR	NMR	0.0003	NMR	0.0003	NMR	0.0003	NMR
Ni (mg/L)	0.5	0.0059	0.0019	0.0030	0.0048	0.0055	0.0069	0.0046	0.0019	0.0013	0.0019	0.0053	0.0113
Zn (mg/L)	0.5	0.0110	NMR	NMR	0.0210	NMR	NMR	0.0005	NMR	0.0088	NMR	0.0040	NMR
TSS (mg/L)	15	24.10	5.00	4.75	7.80	4.25	5.25	7.83	5.25	3.70	3.00	6.00	6.80
Ra-226 (Bq/L)	0.37	0.0040	NMR	NMR	0.0200	NMR	NMR	0.0200	NMR	NMR	NMR	0.0060	NMR
pH low	≥6.0	6.0	6.4	6.1	6.2	6.7	7.8	6.8	8.1	7.1	6.9	6.5	6.3
pH high	≤9.5	6.8	7.2	6.6	8.2	7.3	8.4	8.1	8.6	8.4	6.9	7.0	7.4
Flow (m ³ /month)	—	234 340	160 230	178 055	543 384	778 118	458 315	267 689	683 111	561 988	67 030	383 389	496 108
Rainbow Trout	Pass	1	NMR	NMR	1	NMR	NMR	1	NMR	NMR	NMR	1	NMR
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
<i>Daphnia magna</i>	Pass	1	NMR	NMR	1	NMR	NMR	-	NMR	NMR	NMR	1	NMR
Monitoring Test	Fail	-	-	-	-	-	-	1	-	-	-	-	-
Comments:													
Notes: ND: No Deposit NMR: No Measurement Required Pass: ≤50% Mortality Fail: >50% Mortality Highlighted data indicate that a monthly effluent quality standard was exceeded for that month. A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement.													

Metal Mining Effluent Regulations (MMER) 2008 Effluent Compliance

Mine/Mill Name	Duck Pond Operations												
Operator Name	Teck Cominco Ltd.												
Product(s)	Copper-Zinc-Silver-Gold												
Address	30-32 Route 370, Box 9, Millertown, Newfoundland and Labrador A0H 1V0												
Effluent Discharge Point	Polishing Pond Effluent												
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
As (mg/L)	0.5	ND	ND	ND	0.0040	0.0040	0.0090	0.0040	0.0040	0.0040	0.0050	0.0050	0.0040
Cu (mg/L)	0.3	ND	ND	ND	0.0030	0.0050	0.0260	0.0130	0.0140	0.0114	0.0094	0.0105	0.1824
CN (mg/L)	1.0	ND	ND	ND	0.0010	0.0010	0.0140	0.0010	0.0010	0.0010	0.0010	0.0013	0.0766
Pb (mg/L)	0.2	ND	ND	ND	0.0025	0.0025	0.0025	0.0025	0.0122	0.0121	0.0086	0.0210	0.0154
Ni (mg/L)	0.5	ND	ND	ND	0.0050	0.0050	0.0050	0.0050	0.0050	0.0050	0.0050	0.0050	0.0050
Zn (mg/L)	0.5	ND	ND	ND	0.0200	0.0500	0.0800	0.0600	0.0900	0.0920	0.1250	0.1075	0.1120
TSS (mg/L)	15	ND	ND	ND	1.00	3.00	2.00	7.00	5.67	1.40	1.00	2.25	2.40
Ra-226 (Bq/L)	0.37	ND	ND	ND	0.0050	0.0050	NMR	NMR	0.0100	NMR	0.0200	NMR	NMR
pH low	≥6.0	ND	ND	ND	7.3	7.4	7.1	7.5	7.2	7.4	7.2	6.5	6.7
pH high	≤9.5	ND	ND	ND	7.3	7.4	7.1	7.5	7.4	7.6	7.7	7.7	7.6
Flow (m ³ /month)	—	ND	ND	ND	55 461	124 415	147 617	96 516	201 734	453 564	577 663	624 359	649 432
Rainbow Trout	Pass	ND	ND	ND	-	1	1	1	1	1	1	1	1
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
<i>Daphnia magna</i>	Pass	ND	ND	ND	-	1	1	1	1	1	1	1	1
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
Comments:	No toxicity test results were provided for April.												
Notes:	ND: No Deposit NMR: No Measurement Required Highlighted data indicate that a monthly effluent quality standard was exceeded for that month. A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement.												
	Pass: ≤50% Mortality Fail: >50% Mortality												

Metal Mining Effluent Regulations (MMER) 2008 Effluent Compliance

Mine/Mill Name	Duck Pond Operations												
Operator Name	Teck Cominco Ltd.												
Product(s)	Copper-Zinc-Silver-Gold												
Address	30-32 Route 370, Box 9, Millertown, Newfoundland and Labrador A0H 1V0												
Effluent Discharge Point	Temporary Settling Pond Effluent												
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.
As (mg/L)	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Cu (mg/L)	0.3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
CN (mg/L)	1.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Pb (mg/L)	0.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ni (mg/L)	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Zn (mg/L)	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
TSS (mg/L)	15	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ra-226 (Bq/L)	0.37	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
pH low	≥6.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
pH high	≤9.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Flow (m ³ /month)	—	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Rainbow Trout	Pass	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
<i>Daphnia magna</i>	Pass	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
Comments:													
Notes: ND: No Deposit NMR: No Measurement Required Pass: ≤50% Mortality Fail: >50% Mortality Highlighted data indicate that a monthly effluent quality standard was exceeded for that month. A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement.													

Metal Mining Effluent Regulations (MMER) 2008 Effluent Compliance

Mine/Mill Name	Eagle River Mill												
Operator Name	Wesdome Gold Mines Ltd.												
Product(s)	Gold												
Address	93 Mission Road, P.O. Box 1520, Wawa, Ontario P0S 1K0												
Effluent Discharge Point	Eagle River Mill												
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
As (mg/L)	0.5	ND	ND	ND	ND	ND	0.0210	0.0172	0.0390	0.0361	0.0146	0.0148	ND
Cu (mg/L)	0.3	ND	ND	ND	ND	ND	0.0825	0.0684	0.0392	0.0386	0.0522	0.9568	ND
CN (mg/L)	1.0	ND	ND	ND	ND	ND	0.0498	0.0444	0.1810	0.3010	0.1992	1.2883	ND
Pb (mg/L)	0.2	ND	ND	ND	ND	ND	0.0016	0.0006	0.0017	0.0008	0.0005	0.0015	ND
Ni (mg/L)	0.5	ND	ND	ND	ND	ND	0.0288	0.0270	0.0181	0.0076	0.0077	0.2379	ND
Zn (mg/L)	0.5	ND	ND	ND	ND	ND	0.0118	0.0082	0.0050	0.0028	0.0086	0.0487	ND
TSS (mg/L)	15	ND	ND	ND	ND	ND	3.94	1.12	2.66	1.56	0.93	2.23	ND
Ra-226 (Bq/L)	0.37	ND	ND	ND	ND	ND	0.0050	0.0050	0.0050	0.0050	NMR	0.0050	ND
pH low	≥6.0	ND	ND	ND	ND	ND	7.3	7.3	7.4	7.3	7.6	7.8	ND
pH high	≤9.5	ND	ND	ND	ND	ND	7.5	7.6	7.8	7.7	7.7	8.0	ND
Flow (m ³ /month)	—	ND	ND	ND	ND	ND	2 194	1 352	85	87	208	2 419	ND
Rainbow Trout	Pass	ND	ND	ND	ND	ND	1	1	1	1	1	1	ND
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
<i>Daphnia magna</i>	Pass	ND	ND	ND	ND	ND	1	1	1	1	1	1	ND
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
Comments:													
Notes: ND: No Deposit NMR: No Measurement Required Pass: ≤50% Mortality Fail: >50% Mortality Highlighted data indicate that a monthly effluent quality standard was exceeded for that month. A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement.													

Metal Mining Effluent Regulations (MMER) 2008 Effluent Compliance

Mine/Mill Name	Eagle River Mine												
Operator Name	Wesdome Gold Mines Ltd.												
Product(s)	Gold												
Address	93 Mission Road, P.O. Box 1520, Wawa, Ontario P0S 1K0												
Effluent Discharge Point	FDP 1												
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
As (mg/L)	0.5	0.0005	0.0005	0.0006	0.0005	0.0005	0.0005	0.0007	0.0009	0.0005	0.0005	0.0004	0.0004
Cu (mg/L)	0.3	0.0034	0.0040	0.0035	0.0040	0.0035	0.0033	0.0046	0.0029	0.0022	0.0026	0.0019	0.0016
CN (mg/L)	1.0	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR
Pb (mg/L)	0.2	0.0005	0.0005	0.0005	0.0006	0.0005	0.0005	0.0008	0.0003	0.0001	0.0004	0.0003	0.0002
Ni (mg/L)	0.5	0.0064	0.0073	0.0078	0.0060	0.0048	0.0055	0.0070	0.0067	0.0037	0.0044	0.0030	0.0034
Zn (mg/L)	0.5	0.0122	0.0145	0.0175	0.0144	0.0078	0.0070	0.0078	0.0044	0.0025	0.0058	0.0117	0.0148
TSS (mg/L)	15	0.95	1.31	1.56	5.28	2.30	3.73	5.15	1.19	1.59	3.98	5.05	2.22
Ra-226 (Bq/L)	0.37	-	-	-	NMR	0.0050	0.0050	0.0050	0.0050	0.0050	0.0050	NMR	NMR
pH low	≥6.0	6.9	7.1	7.2	7.2	6.9	6.5	6.7	6.9	6.8	6.8	7.3	7.3
pH high	≤9.5	7.4	7.2	7.3	7.4	7.2	7.5	7.4	7.1	7.3	7.0	7.8	7.6
Flow (m ³ /month)	—	21 483	11 919	13 888	41 490	33 480	27 450	20 894	15 221	23 820	17 205	23 910	1 615
Rainbow Trout	Pass	1	1	1	1	1	1	1	NMR	2	1	1	1
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
<i>Daphnia magna</i>	Pass	1	1	1	1	1	1	1	NMR	2	1	1	1
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
Comments:	No radium 226 test result was provided for the first quarter.												
Notes:	ND: No Deposit NMR: No Measurement Required Highlighted data indicate that a monthly effluent quality standard was exceeded for that month. A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement.												
	Pass: ≤50% Mortality Fail: >50% Mortality												

Metal Mining Effluent Regulations (MMER) 2008 Effluent Compliance

Mine/Mill Name	Endako Mines												
Operator Name	Thompson Creek Mining Ltd.												
Product(s)	Molybdenum												
Address	Bag 4001, Fraser Lake, British Columbia V0J 1S0												
Effluent Discharge Point	En.A1 – Tailings Pond 1 South												
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
As (mg/L)	0.5	NMR	NMR	0.0003	NMR	NMR	0.0003	NMR	0.0003	NMR	NMR	0.0003	NMR
Cu (mg/L)	0.3	NMR	NMR	0.0023	NMR	NMR	0.0003	NMR	0.0004	NMR	NMR	0.0010	NMR
CN (mg/L)	1.0	NMR	NMR	0.0229	NMR	NMR	0.0061	NMR	0.0025	NMR	NMR	0.0025	NMR
Pb (mg/L)	0.2	NMR	NMR	0.0001	NMR	NMR	0.0001	NMR	0.0001	NMR	NMR	0.0001	NMR
Ni (mg/L)	0.5	NMR	NMR	0.0025	NMR	NMR	0.0013	NMR	0.0013	NMR	NMR	0.0013	NMR
Zn (mg/L)	0.5	NMR	NMR	0.0025	NMR	NMR	0.0025	NMR	0.0025	NMR	NMR	0.0025	NMR
TSS (mg/L)	15	4.02	2.90	2.80	3.96	2.95	2.00	1.68	0.98	1.38	2.08	3.23	4.18
Ra-226 (Bq/L)	0.37	NMR	NMR	0.0100	NMR	NMR	0.0025	NMR	0.0050	NMR	NMR	0.0080	NMR
pH low	≥6.0	7.8	7.8	7.8	7.7	7.9	7.7	8.0	8.0	8.1	8.0	7.8	7.7
pH high	≤9.5	7.9	8.0	7.9	8.1	8.1	8.0	8.1	8.1	8.1	8.1	8.0	7.9
Flow (m ³ /month)	—	81 363	78 982	85 591	88 728	95 170	82 613	80 953	86 661	77 538	81 863	76 253	76 932
Rainbow Trout	Pass	NMR	NMR	1	NMR	NMR	1	NMR	1	NMR	NMR	1	NMR
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
<i>Daphnia magna</i>	Pass	NMR	NMR	1	NMR	NMR	1	NMR	1	NMR	NMR	1	NMR
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
Comments:													
Notes: ND: No Deposit NMR: No Measurement Required Pass: ≤50% Mortality Fail: >50% Mortality Highlighted data indicate that a monthly effluent quality standard was exceeded for that month. A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement.													

Metal Mining Effluent Regulations (MMER) 2008 Effluent Compliance

Mine/Mill Name	Endako Mines												
Operator Name	Thompson Creek Mining Ltd.												
Product(s)	Molybdenum												
Address	Bag 4001, Fraser Lake, British Columbia V0J 1S0												
Effluent Discharge Point	En.H1 - Tailings Pond 2 Higginbotham												
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
As (mg/L)	0.5	NMR	NMR	0.0003	NMR	NMR	0.0003	NMR	0.0003	NMR	NMR	0.0003	NMR
Cu (mg/L)	0.3	NMR	NMR	0.0008	NMR	NMR	0.0003	NMR	0.0003	NMR	NMR	0.0023	NMR
CN (mg/L)	1.0	NMR	NMR	0.0454	NMR	NMR	0.0337	NMR	0.0322	NMR	NMR	0.0332	NMR
Pb (mg/L)	0.2	NMR	NMR	0.0001	NMR	NMR	0.0001	NMR	0.0001	NMR	NMR	0.0001	NMR
Ni (mg/L)	0.5	NMR	NMR	0.0013	NMR	NMR	0.0013	NMR	0.0013	NMR	NMR	0.0013	NMR
Zn (mg/L)	0.5	NMR	NMR	0.0025	NMR	NMR	0.0025	NMR	0.0025	NMR	NMR	0.0025	NMR
TSS (mg/L)	15	5.74	7.35	7.30	9.32	11.60	7.15	7.54	15.45	8.86	4.78	6.63	2.96
Ra-226 (Bq/L)	0.37	NMR	NMR	0.0050	NMR	NMR	0.0060	NMR	0.0025	NMR	NMR	0.0070	NMR
pH low	≥6.0	7.8	7.9	7.9	7.1	7.8	7.8	7.9	7.9	8.0	8.0	7.6	7.8
pH high	≤9.5	8.0	8.0	8.0	8.1	8.0	7.9	8.1	8.0	8.1	8.1	8.0	7.9
Flow (m ³ /month)	—	74 171	72 776	77 105	66 822	67 045	73 080	75 175	69 665	68 682	76 082	74 430	71 052
Rainbow Trout	Pass	NMR	NMR	1	NMR	NMR	1	NMR	1	NMR	NMR	1	NMR
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
<i>Daphnia magna</i>	Pass	NMR	NMR	1	NMR	NMR	1	NMR	1	NMR	NMR	1	NMR
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
Comments:													
Notes: ND: No Deposit NMR: No Measurement Required Pass: ≤50% Mortality Fail: >50% Mortality Highlighted data indicate that a monthly effluent quality standard was exceeded for that month. A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement.													

Metal Mining Effluent Regulations (MMER) 2008 Effluent Compliance

Mine/Mill Name	Endako Mines												
Operator Name	Thompson Creek Mining Ltd.												
Product(s)	Molybdenum												
Address	Bag 4001, Fraser Lake, British Columbia V0J 1S0												
Effluent Discharge Point	En.N1 – Tailings Pond 1 North												
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
As (mg/L)	0.5	NMR	NMR	0.0003	NMR	NMR	0.0003	NMR	0.0003	NMR	NMR	0.0003	NMR
Cu (mg/L)	0.3	NMR	NMR	0.0010	NMR	NMR	0.0011	NMR	0.0003	NMR	NMR	0.0016	NMR
CN (mg/L)	1.0	NMR	NMR	0.0195	NMR	NMR	0.0067	NMR	0.0025	NMR	NMR	0.0025	NMR
Pb (mg/L)	0.2	NMR	NMR	0.0001	NMR	NMR	0.0001	NMR	0.0001	NMR	NMR	0.0001	NMR
Ni (mg/L)	0.5	NMR	NMR	0.0013	NMR	NMR	0.0013	NMR	0.0013	NMR	NMR	0.0013	NMR
Zn (mg/L)	0.5	NMR	NMR	0.0025	NMR	NMR	0.0025	NMR	0.0025	NMR	NMR	0.0025	NMR
TSS (mg/L)	15	0.62	0.80	0.73	0.64	0.65	0.83	0.50	0.93	0.62	0.93	0.65	0.50
Ra-226 (Bq/L)	0.37	NMR	NMR	0.0025	NMR	NMR	0.0025	NMR	0.0025	NMR	NMR	0.0025	NMR
pH low	≥6.0	7.9	7.9	7.9	7.9	7.9	8.0	8.0	7.9	8.1	8.1	7.8	7.8
pH high	≤9.5	8.0	8.1	8.0	8.1	8.2	8.1	8.2	8.1	8.2	8.2	8.1	8.1
Flow (m ³ /month)	—	58 621	53 077	66 418	81 090	95 387	63 375	63 004	62 961	65 376	99 208	131 985	124 170
Rainbow Trout	Pass	NMR	NMR	1	NMR	NMR	1	NMR	1	NMR	NMR	1	NMR
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
<i>Daphnia magna</i>	Pass	NMR	NMR	1	NMR	NMR	1	NMR	1	NMR	NMR	1	NMR
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
Comments:													
Notes: ND: No Deposit NMR: No Measurement Required Pass: ≤50% Mortality Fail: >50% Mortality Highlighted data indicate that a monthly effluent quality standard was exceeded for that month. A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement.													

Metal Mining Effluent Regulations (MMER) 2008 Effluent Compliance

Mine/Mill Name	Endako Mines												
Operator Name	Thompson Creek Mining Ltd.												
Product(s)	Molybdenum												
Address	Bag 4001, Fraser Lake, British Columbia V0J 1S0												
Effluent Discharge Point	En.S2 – Tailings Pond 2 South												
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
As (mg/L)	0.5	NMR	NMR	0.0003	NMR	NMR	0.0003	NMR	0.0003	NMR	NMR	0.0003	NMR
Cu (mg/L)	0.3	NMR	NMR	0.0006	NMR	NMR	0.0003	NMR	0.0003	NMR	NMR	0.0017	NMR
CN (mg/L)	1.0	NMR	NMR	0.0557	NMR	NMR	0.0223	NMR	0.0025	NMR	NMR	0.0025	NMR
Pb (mg/L)	0.2	NMR	NMR	0.0001	NMR	NMR	0.0001	NMR	0.0001	NMR	NMR	0.0001	NMR
Ni (mg/L)	0.5	NMR	NMR	0.0013	NMR	NMR	0.0013	NMR	0.0013	NMR	NMR	0.0013	NMR
Zn (mg/L)	0.5	NMR	NMR	0.0025	NMR	NMR	0.0025	NMR	0.0025	NMR	NMR	0.0025	NMR
TSS (mg/L)	15	0.88	0.63	1.20	1.54	3.85	0.73	0.96	1.08	0.62	1.43	0.98	2.08
Ra-226 (Bq/L)	0.37	NMR	NMR	0.0025	NMR	NMR	0.0025	NMR	0.0025	NMR	NMR	0.0025	NMR
pH low	≥6.0	7.8	7.9	7.9	7.6	7.8	7.9	7.9	7.9	8.0	7.9	7.6	7.7
pH high	≤9.5	7.9	7.9	7.9	8.1	8.1	8.0	8.1	8.0	8.5	8.1	8.0	8.0
Flow (m ³ /month)	—	35 309	45 907	70 851	91 704	46 857	46 740	43 735	42 935	42 354	44 795	45 165	46 050
Rainbow Trout	Pass	NMR	NMR	1	NMR	NMR	1	NMR	1	NMR	NMR	1	NMR
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
<i>Daphnia magna</i>	Pass	NMR	NMR	1	NMR	NMR	1	NMR	1	NMR	NMR	1	NMR
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
Comments:													
Notes: ND: No Deposit NMR: No Measurement Required Pass: ≤50% Mortality Fail: >50% Mortality Highlighted data indicate that a monthly effluent quality standard was exceeded for that month. A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement.													

Metal Mining Effluent Regulations (MMER) 2008 Effluent Compliance

Mine/Mill Name	Endako Mines												
Operator Name	Thompson Creek Mining Ltd.												
Product(s)	Molybdenum												
Address	Bag 4001, Fraser Lake, British Columbia V0J 1S0												
Effluent Discharge Point	En.SBC – Endako Pit												
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
As (mg/L)	0.5	NMR	NMR	0.0003	NMR	NMR	0.0003	NMR	0.0003	NMR	NMR	0.0003	NMR
Cu (mg/L)	0.3	NMR	NMR	0.0010	NMR	NMR	0.0016	NMR	0.0026	NMR	NMR	0.0023	NMR
CN (mg/L)	1.0	NMR	NMR	0.0141	NMR	NMR	0.0682	NMR	0.0025	NMR	NMR	0.0025	NMR
Pb (mg/L)	0.2	NMR	NMR	0.0002	NMR	NMR	0.0001	NMR	0.0006	NMR	NMR	0.0003	NMR
Ni (mg/L)	0.5	NMR	NMR	0.0012	NMR	NMR	0.0005	NMR	0.0005	NMR	NMR	0.0005	NMR
Zn (mg/L)	0.5	NMR	NMR	0.0025	NMR	NMR	0.0025	NMR	0.0025	NMR	NMR	0.0025	NMR
TSS (mg/L)	15	2.98	1.63	9.25	7.52	2.13	1.55	4.58	9.05	3.10	13.23	6.38	6.26
Ra-226 (Bq/L)	0.37	NMR	NMR	0.0090	NMR	NMR	0.0025	NMR	0.0025	NMR	NMR	0.0025	NMR
pH low	≥6.0	8.0	7.3	7.9	7.8	7.9	7.6	8.0	8.0	8.0	7.9	7.9	7.9
pH high	≤9.5	8.0	8.1	8.0	8.1	8.1	8.0	8.1	8.1	8.1	8.1	8.1	8.1
Flow (m ³ /month)	—	31 874	21 119	26 249	46 344	51 282	45 323	40 207	33 224	30 414	32 496	29 918	30 192
Rainbow Trout	Pass	NMR	NMR	1	NMR	NMR	1	NMR	1	NMR	NMR	1	NMR
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
<i>Daphnia magna</i>	Pass	NMR	NMR	1	NMR	NMR	1	NMR	1	NMR	NMR	1	NMR
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
Comments:													
Notes: ND: No Deposit NMR: No Measurement Required Pass: ≤50% Mortality Fail: >50% Mortality Highlighted data indicate that a monthly effluent quality standard was exceeded for that month. A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement.													

Metal Mining Effluent Regulations (MMER) 2008 Effluent Compliance

Mine/Mill Name	Endako Mines												
Operator Name	Thompson Creek Mining Ltd.												
Product(s)	Molybdenum												
Address	Bag 4001, Fraser Lake, British Columbia V0J 1S0												
Effluent Discharge Point	En. W2 – Denak West Pit												
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
As (mg/L)	0.5	ND	ND	ND	ND	0.0005	ND	0.0003	0.0043	0.0031	ND	ND	ND
Cu (mg/L)	0.3	ND	ND	ND	ND	0.0080	ND	0.0055	0.0189	0.0059	ND	ND	ND
CN (mg/L)	1.0	ND	ND	ND	ND	0.0092	ND	0.0060	0.0671	0.0025	ND	ND	ND
Pb (mg/L)	0.2	ND	ND	ND	ND	0.0001	ND	0.0002	0.0003	0.0001	ND	ND	ND
Ni (mg/L)	0.5	ND	ND	ND	ND	0.0005	ND	0.0013	0.0013	0.0013	ND	ND	ND
Zn (mg/L)	0.5	ND	ND	ND	ND	0.0058	ND	0.0025	0.0025	0.0025	ND	ND	ND
TSS (mg/L)	15	ND	ND	ND	ND	7.43	ND	4.93	17.37	12.50	ND	ND	ND
Ra-226 (Bq/L)	0.37	ND	ND	ND	ND	0.0053	ND	0.0069	0.0075	NMR	ND	ND	ND
pH low	≥6.0	ND	ND	ND	ND	7.8	ND	7.9	7.8	8.1	ND	ND	ND
pH high	≤9.5	ND	ND	ND	ND	8.0	ND	8.1	8.1	8.1	ND	ND	ND
Flow (m ³ /month)	—	ND	ND	ND	ND	13 284	ND	2 620	5 467	3 405	ND	ND	ND
Rainbow Trout	Pass	ND	ND	ND	ND	1	ND	1	1	-	ND	ND	ND
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
<i>Daphnia magna</i>	Pass	ND	ND	ND	ND	1	ND	1	1	-	ND	ND	ND
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
Comments:	No toxicity test results were provided for September. The toxicity test was scheduled on day of no flow.												
Notes:	ND: No Deposit NMR: No Measurement Required Highlighted data indicate that a monthly effluent quality standard was exceeded for that month. A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement.												
	Pass: ≤50% Mortality Fail: >50% Mortality												

Metal Mining Effluent Regulations (MMER) 2008 Effluent Compliance

Mine/Mill Name	Eskay Creek Mine												
Operator Name	Barrick Gold Corporation												
Product(s)	Gold-Silver												
Address	P.O. Box 3908, Smithers, British Columbia V0J 2N0												
Effluent Discharge Point	Es.D7 – Treatment Pond Discharge Point												
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.
As (mg/L)	0.5	0.0007	0.0025	0.0022	0.0025	0.0033	0.0027	0.0059	0.0044	0.0047	0.0046	0.0094	0.0131
Cu (mg/L)	0.3	0.0030	0.0025	0.0031	0.0055	0.0052	0.0036	0.0023	0.0018	0.0026	0.0020	0.0013	0.0018
CN (mg/L)	1.0	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR
Pb (mg/L)	0.2	0.0240	0.0323	0.0493	0.0792	0.0584	0.0256	0.0145	0.0197	0.0273	0.0185	0.0061	0.0029
Ni (mg/L)	0.5	0.0134	0.0134	0.0160	0.0134	0.0031	0.0109	0.0122	0.0227	0.0129	0.0052	0.0236	0.0456
Zn (mg/L)	0.5	0.0472	0.0635	0.0686	0.1346	0.0575	0.2864	0.0867	0.1554	0.0576	0.0227	0.0522	0.2190
TSS (mg/L)	15	5.22	4.78	8.74	8.26	6.16	5.56	4.80	4.88	7.02	3.75	5.68	9.98
Ra-226 (Bq/L)	0.37	NMR	0.0300	NMR	NMR	0.0070	NMR	NMR	0.0300	NMR	NMR	0.0025	NMR
pH low	≥6.0	6.3	6.7	6.8	6.9	6.9	6.6	7.8	7.8	7.9	7.1	8.1	7.8
pH high	≤9.5	7.0	7.2	7.7	7.3	7.8	8.3	8.1	8.1	8.1	8.0	8.2	8.1
Flow (m ³ /month)	—	23 313	17 194	17 515	12 677	36 816	148 160	119 528	79 058	54 993	65 981	56 949	46 681
Rainbow Trout	Pass	NMR	1	NMR	NMR	1	NMR	1	1	NMR	NMR	1	NMR
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
<i>Daphnia magna</i>	Pass	NMR	1	NMR	NMR	1	NMR	1	1	NMR	NMR	1	NMR
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
Comments:													
Notes: ND: No Deposit NMR: No Measurement Required Pass: ≤50% Mortality Fail: >50% Mortality Highlighted data indicate that a monthly effluent quality standard was exceeded for that month. A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement.													

Metal Mining Effluent Regulations (MMER) 2008 Effluent Compliance

Mine/Mill Name	Eskay Creek Mine												
Operator Name	Barrick Gold Corporation												
Product(s)	Gold-Silver												
Address	P.O. Box 3908, Smithers, British Columbia V0J 2N0												
Effluent Discharge Point	Es.TM1 – Tom MacKay Discharge Point												
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
As (mg/L)	0.5	0.0018	0.0018	0.0018	0.0016	0.0013	0.0004	0.0005	0.0012	0.0012	0.0024	0.0015	0.0014
Cu (mg/L)	0.3	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005
CN (mg/L)	1.0	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR
Pb (mg/L)	0.2	0.0011	0.0007	0.0005	0.0006	0.0006	0.0007	0.0005	0.0006	0.0005	0.0007	0.0006	0.0005
Ni (mg/L)	0.5	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0006	0.0005
Zn (mg/L)	0.5	0.0088	0.0096	0.0198	0.0300	0.0100	0.0049	0.0056	0.0400	0.0107	0.0128	0.0136	0.0143
TSS (mg/L)	15	3.00	4.93	3.00	3.00	3.00	3.00	1.75	0.68	0.50	0.68	0.50	0.50
Ra-226 (Bq/L)	0.37	NMR	0.0025	NMR	NMR	0.0025	NMR	NMR	0.0070	NMR	NMR	0.0025	NMR
pH low	≥6.0	7.1	7.3	7.4	7.3	7.4	7.1	7.1	7.5	7.4	7.4	7.4	7.5
pH high	≤9.5	7.6	7.7	8.0	7.7	7.6	7.7	7.5	8.0	8.0	7.7	7.6	7.9
Flow (m ³ /month)	—	207 101	261 723	215 300	160 177	1 202 135	2 723 155	2 781 242	1 486 789	544 640	916 177	478 509	357 026
Rainbow Trout	Pass	NMR	1	NMR	NMR	1	NMR	NMR	1	NMR	NMR	1	NMR
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
<i>Daphnia magna</i>	Pass	NMR	1	NMR	NMR	1	NMR	NMR	1	NMR	NMR	1	NMR
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
Comments:													
Notes: ND: No Deposit NMR: No Measurement Required Pass: ≤50% Mortality Fail: >50% Mortality Highlighted data indicate that a monthly effluent quality standard was exceeded for that month. A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement.													

Metal Mining Effluent Regulations (MMER) 2008 Effluent Compliance

Mine/Mill Name	Eskay Creek Mine												
Operator Name	Barrick Gold Corporation												
Product(s)	Gold-Silver												
Address	P.O. Box 3908, Smithers, British Columbia V0J 2N0												
Effluent Discharge Point	Es. W20 – Albino Discharge Point												
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
As (mg/L)	0.5	ND	ND	ND	0.0100	0.0174	0.0080	0.0199	0.0242	0.0299	ND	ND	ND
Cu (mg/L)	0.3	ND	ND	ND	0.0012	0.0013	0.0012	0.0010	0.0021	0.0021	ND	ND	ND
CN (mg/L)	1.0	ND	ND	ND	NMR	NMR	NMR	NMR	NMR	NMR	ND	ND	ND
Pb (mg/L)	0.2	ND	ND	ND	0.0105	0.0070	0.0134	0.0110	0.0208	0.0222	ND	ND	ND
Ni (mg/L)	0.5	ND	ND	ND	0.0022	0.0013	0.0010	0.0005	0.0013	0.0012	ND	ND	ND
Zn (mg/L)	0.5	ND	ND	ND	0.0134	0.0320	0.0334	0.0533	0.0164	0.0118	ND	ND	ND
TSS (mg/L)	15	ND	ND	ND	3.00	3.00	3.00	2.23	1.87	4.20	ND	ND	ND
Ra-226 (Bq/L)	0.37	ND	ND	ND	NMR	0.0080	NMR	NMR	0.0100	NMR	ND	ND	ND
pH low	≥6.0	ND	ND	ND	7.4	7.5	6.8	7.4	7.4	7.7	ND	ND	ND
pH high	≤9.5	ND	ND	ND	7.8	7.9	7.7	7.6	7.9	8.0	ND	ND	ND
Flow (m ³ /month)	—	ND	ND	ND	2 088	151 727	250 906	159 667	152 107	76 118	ND	ND	ND
Rainbow Trout	Pass	ND	ND	ND	1	1	1	2	1	-	ND	ND	ND
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
<i>Daphnia magna</i>	Pass	ND	ND	ND	1	1	-	2	1	-	ND	ND	ND
Monitoring Test	Fail	-	-	-	-	-	1	-	-	-	-	-	-
Comments:	No toxicity test results were provided for September. The toxicity test was scheduled on day of no flow.												
Notes:	ND: No Deposit NMR: No Measurement Required Highlighted data indicate that a monthly effluent quality standard was exceeded for that month. A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement.												
	Pass: ≤50% Mortality Fail: >50% Mortality												

Metal Mining Effluent Regulations (MMER) 2008 Effluent Compliance

Mine/Mill Name	Fabie (Mine)												
Operator Name	First Metal Inc.												
Product(s)	Copper												
Address	12 Doyon Street, Rouyn-Noranda, Quebec J9X 7B4												
Effluent Discharge Point	V-Notch												
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
As (mg/L)	0.5	0.0012	0.0020	0.0009	0.0018	0.0009	0.0011	0.0011	0.0009	0.0008	0.0004	0.0008	0.0006
Cu (mg/L)	0.3	0.0079	0.0143	0.0075	0.0223	0.0095	0.0077	0.0179	0.0110	0.0231	0.0213	0.0229	0.0141
CN (mg/L)	1.0	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR
Pb (mg/L)	0.2	0.0020	0.0020	0.0007	0.0010	0.0005	0.0018	0.0017	0.0017	0.0014	0.0005	0.0003	0.0041
Ni (mg/L)	0.5	0.0109	0.0134	0.0098	0.0097	0.0048	0.0040	0.0097	0.0123	0.0164	0.0193	0.0187	0.0021
Zn (mg/L)	0.5	0.2903	0.3540	0.2940	0.2433	0.2425	0.1233	0.1595	0.1130	0.3458	0.3745	0.3880	0.3100
TSS (mg/L)	15	5.50	5.50	0.75	4.00	2.80	2.14	5.20	2.83	6.60	4.10	6.38	7.33
Ra-226 (Bq/L)	0.37	0.0010	0.0010	0.0015	0.0013	0.0028	0.0020	0.0035	NMR	NMR	NMR	0.0010	NMR
pH low	≥6.0	6.5	6.8	6.8	6.8	6.8	7.0	7.0	7.0	7.2	7.0	6.7	6.6
pH high	≤9.5	7.0	6.9	7.0	7.8	7.9	7.5	7.8	7.6	7.6	7.7	7.3	7.0
Flow (m ³ /month)	—	6 581	1 799	1 316	7 124	20 075	5 868	7 383	3 484	2 936	2 876	3 581	1 747
Rainbow Trout	Pass	1	1	1	1	1	1	2	1	1	1	-	1
Acute Lethality Test	Fail	-	-	-	-	1	-	-	-	-	-	-	-
<i>Daphnia magna</i>	Pass	1	1	1	1	1	1	2	1	1	1	-	1
Monitoring Test	Fail	-	-	-	-	1	-	-	-	-	-	-	-
Comments:	No toxicity tests results were provided for November.												
Notes:	ND: No Deposit NMR: No Measurement Required Highlighted data indicate that a monthly effluent quality standard was exceeded for that month. A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement.												
	Pass: ≤50% Mortality Fail: >50% Mortality												

Metal Mining Effluent Regulations (MMER) 2008 Effluent Compliance

Mine/Mill Name	Fire Lake (Mine)												
Operator Name	ArcelorMittal Mines Canada												
Product(s)	Iron												
Address	P.O. Box 1817, Mont-Wright, Quebec G0G 1J0												
Effluent Discharge Point	Beaver Pit – Spillway (FL-2)												
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.
As (mg/L)	0.5	-	-	-	-	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005
Cu (mg/L)	0.3	-	-	-	-	0.0020	0.0028	0.0015	0.0010	0.0018	0.0013	0.0045	0.0009
CN (mg/L)	1.0	-	-	-	-	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR
Pb (mg/L)	0.2	-	-	-	-	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005
Ni (mg/L)	0.5	-	-	-	-	0.0010	0.0010	0.0018	0.0009	0.0005	0.0013	0.0026	0.0006
Zn (mg/L)	0.5	-	-	-	-	0.0180	0.0170	0.0112	0.0135	0.0232	0.0265	0.0183	0.0242
TSS (mg/L)	15	-	-	-	-	8.25	1.25	1.60	7.88	0.90	1.00	3.25	2.20
Ra-226 (Bq/L)	0.37	-	-	-	-	0.0025	0.0100	-	0.0025	0.0025	0.0098	0.0010	-
pH low	≥6.0	-	-	-	-	6.7	7.0	7.5	6.9	7.2	6.8	7.3	7.4
pH high	≤9.5	-	-	-	-	7.0	7.6	7.8	7.4	7.7	7.9	7.8	7.6
Flow (m ³ /month)	—	-	-	-	-	372 000	99 000	119 784	113 460	98 640	109 740	99 000	111 600
Rainbow Trout	Pass	-	-	-	-	1	1	-	1	1	1	1	1
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
<i>Daphnia magna</i>	Pass	-	-	-	-	1	1	-	1	1	1	1	1
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
Comments:	The mine became subject to the MMER on May 1, 2008. No toxicity tests results were provided for July. No radium 226 test result was provided in July and December. In order to reduce frequency of testing for radium 226, 10 consecutive tests must be conducted. For these tests, the concentration of radium 226 must be less than 0.037 Bq/L.												
Notes:	ND: No Deposit NMR: No Measurement Required Pass: ≤50% Mortality Fail: >50% Mortality Highlighted data indicate that a monthly effluent quality standard was exceeded for that month. A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement.												

Metal Mining Effluent Regulations (MMER) 2008 Effluent Compliance

Mine/Mill Name	Fire Lake (Mine)												
Operator Name	ArcelorMittal Mines Canada												
Product(s)	Iron												
Address	P.O. Box 1817, Mont-Wright, Quebec G0G 1J0												
Effluent Discharge Point	Main Pit (FL-1)												
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
As (mg/L)	0.5	-	-	-	-	0.0005	0.0006	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005
Cu (mg/L)	0.3	-	-	-	-	0.0038	0.0015	0.0029	0.0013	0.0030	0.0019	0.0030	0.0016
CN (mg/L)	1.0	-	-	-	-	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR
Pb (mg/L)	0.2	-	-	-	-	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005
Ni (mg/L)	0.5	-	-	-	-	0.0030	0.0006	0.0011	0.0006	0.0008	0.0010	0.0013	0.0015
Zn (mg/L)	0.5	-	-	-	-	0.0133	0.0110	0.0060	0.0075	0.0188	0.0143	0.0143	0.0208
TSS (mg/L)	15	-	-	-	-	14.50	0.88	0.90	4.75	2.60	2.75	6.50	2.60
Ra-226 (Bq/L)	0.37	-	-	-	-	0.0040	0.0100	-	0.0025	0.0040	0.0055	0.0010	-
pH low	≥6.0	-	-	-	-	6.8	7.5	6.7	7.3	7.0	7.3	7.6	7.5
pH high	≤9.5	-	-	-	-	7.7	8.7	7.9	8.2	7.6	7.9	7.8	7.7
Flow (m ³ /month)	—	-	-	-	-	93 000	18 936	26 784	86 490	40 320	86 490	74 700	47 616
Rainbow Trout	Pass	-	-	-	-	1	1	-	1	1	1	1	1
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
<i>Daphnia magna</i>	Pass	-	-	-	-	1	1	-	1	1	1	1	1
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
Comments:	The mine became subject to the MMER on May 1, 2008. No toxicity tests results were provided for July. No radium 226 test result was provided in July and December. In order to reduce frequency of testing for radium 226, 10 consecutive tests must be conducted. For these tests, the concentration of radium 226 must be less than 0.037 Bq/L.												
Notes: ND: No Deposit	NMR: No Measurement Required			Pass: ≤50% Mortality			Fail: >50% Mortality						
Highlighted data indicate that a monthly effluent quality standard was exceeded for that month.													
A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement.													

Metal Mining Effluent Regulations (MMER) 2008 Effluent Compliance

Mine/Mill Name	Flin Flon Complex												
Operator Name	Hudson Bay Mining and Smelting Co. Ltd.												
Product(s)	Copper-Lead-Zinc												
Address	P.O. Box 1500, Flin Flon, Manitoba R8A 1N9												
Effluent Discharge Point	North Weir Discharge												
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
As (mg/L)	0.5	0.0082	0.0025	0.0049	0.0038	0.0030	0.0014	0.0005	0.0008	0.0009	0.0006	0.0018	0.0038
Cu (mg/L)	0.3	0.0085	0.0123	0.0105	0.0274	0.0081	0.0041	0.0045	0.0056	0.0081	0.0058	0.0136	0.0206
CN (mg/L)	1.0	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR
Pb (mg/L)	0.2	0.0376	0.0044	0.0035	0.0042	0.0035	0.0049	0.0051	0.0027	0.0035	0.0035	0.0106	0.0108
Ni (mg/L)	0.5	0.0055	0.0010	0.0010	0.0018	0.0013	0.0030	0.0030	0.0015	0.0026	0.0023	0.0030	0.0030
Zn (mg/L)	0.5	0.0693	0.0353	0.0440	0.1462	0.1178	0.1745	0.1420	0.0875	0.2506	0.1310	0.1005	0.1208
TSS (mg/L)	15	0.95	0.69	1.10	1.26	0.45	1.44	1.51	1.84	1.55	1.13	1.03	1.22
Ra-226 (Bq/L)	0.37	0.0200	NMR	NMR	0.0200	NMR	NMR	NMR	0.0500	NMR	0.0050	NMR	NMR
pH low	≥6.0	7.1	7.1	7.5	7.5	7.1	6.5	6.9	7.4	7.2	7.3	7.4	8.4
pH high	≤9.5	8.7	8.0	7.9	8.1	7.5	8.0	8.0	8.0	8.8	9.0	8.7	9.0
Flow (m ³ /month)	—	1 129 764	899 993	972 512	1 344 732	1 461 158	994 406	758 377	805 616	277 216	306 311	723 325	782 379
Rainbow Trout	Pass	1	NMR	NMR	1	NMR	NMR	NMR	1	NMR	1	NMR	NMR
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
<i>Daphnia magna</i>	Pass	1	NMR	NMR	1	NMR	NMR	NMR	1	NMR	1	NMR	NMR
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
Comments:													
Notes: ND: No Deposit NMR: No Measurement Required Pass: ≤50% Mortality Fail: >50% Mortality Highlighted data indicate that a monthly effluent quality standard was exceeded for that month. A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement.													

Metal Mining Effluent Regulations (MMER) 2008 Effluent Compliance

Mine/Mill Name	Garson Mine												
Operator Name	Vale Inco Ltd.												
Product(s)	Nickel-Copper-Cobalt-Platinum												
Address	60 Mine Road, Garson, Ontario P0M 1N0												
Effluent Discharge Point	Garson Mine												
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
As (mg/L)	0.5	0.0010	0.0010	0.0010	0.0010	0.0010	0.0010	0.0010	0.0010	0.0010	0.0010	0.0010	0.0010
Cu (mg/L)	0.3	0.0030	0.0018	0.0010	0.0010	0.0010	0.0010	0.0014	0.0010	0.0045	0.0010	0.0010	0.0010
CN (mg/L)	1.0	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR
Pb (mg/L)	0.2	0.0150	0.0150	0.0150	0.0140	0.0150	0.0150	0.0150	0.0150	0.0375	0.0150	0.0150	0.0150
Ni (mg/L)	0.5	0.0246	0.0518	0.0190	0.0556	0.0380	0.0240	0.0174	0.0613	0.1355	0.0640	0.0563	0.1102
Zn (mg/L)	0.5	0.0162	0.0128	0.0123	0.0064	0.0050	0.0050	0.0068	0.0050	0.0500	0.0102	0.0050	0.0070
TSS (mg/L)	15	1.00	1.00	1.25	1.00	2.45	1.90	3.64	2.05	3.50	1.28	1.00	1.40
Ra-226 (Bq/L)	0.37	0.0540	NMR	NMR	0.0100	NMR	NMR	0.0050	0.0050	NMR	0.0080	NMR	NMR
pH low	≥6.0	7.0	6.7	7.5	7.5	8.4	8.4	7.7	7.8	8.3	7.2	6.7	6.7
pH high	≤9.5	8.8	7.4	8.6	8.8	8.9	9.2	8.9	9.0	8.9	8.9	8.5	7.4
Flow (m ³ /month)	—	103 545	87 863	83 633	114 060	89 187	89 220	81 270	101 635	98 174	76 853	76 663	98 299
Rainbow Trout	Pass	1	NMR	NMR	1	NMR	NMR	1	NMR	NMR	1	NMR	NMR
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
<i>Daphnia magna</i>	Pass	1	NMR	NMR	1	NMR	NMR	1	NMR	NMR	1	NMR	NMR
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
Comments:													
Notes: ND: No Deposit NMR: No Measurement Required Pass: ≤50% Mortality Fail: >50% Mortality Highlighted data indicate that a monthly effluent quality standard was exceeded for that month. A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement.													

Metal Mining Effluent Regulations (MMER) 2008 Effluent Compliance

Mine/Mill Name	Géant Dormant (Mine)												
Operator Name	Gestion IAMGOLD Québec Inc. / Ressources Cadiscor Inc.												
Product(s)	Gold												
Address	1075 3rd Avenue East, P.O. Box 9999, Val-d'Or, Quebec J9P 6M1												
Effluent Discharge Point	GD-E01 Final Effluent – Mine Water Pond												
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
As (mg/L)	0.5	0.0029	NMR	NMR	0.0020	NMR	NMR	0.0005	NMR	NMR	0.0010	NMR	NMR
Cu (mg/L)	0.3	0.0130	NMR	NMR	0.0050	NMR	NMR	0.0204	NMR	NMR	0.0012	NMR	NMR
CN (mg/L)	1.0	0.0100	NMR	NMR	0.0150	NMR	NMR	0.0080	NMR	NMR	0.0050	NMR	NMR
Pb (mg/L)	0.2	0.0015	NMR	NMR	0.0010	NMR	NMR	0.0015	NMR	NMR	0.0003	NMR	NMR
Ni (mg/L)	0.5	0.0020	NMR	NMR	0.0010	NMR	NMR	0.0003	NMR	NMR	0.0003	NMR	NMR
Zn (mg/L)	0.5	0.1960	0.1650	0.1625	0.1100	0.1275	0.1275	0.1954	0.1375	0.1058	0.1127	0.1320	0.1338
TSS (mg/L)	15	3.56	3.50	6.00	3.40	5.50	2.00	15.40	8.25	5.80	2.63	1.50	1.10
Ra-226 (Bq/L)	0.37	0.0050	NMR	NMR	0.0060	NMR	NMR	NMR	NMR	NMR	0.0050	NMR	NMR
pH low	≥6.0	7.5	7.3	7.8	8.0	7.9	8.0	8.0	8.1	8.1	8.1	8.1	8.0
pH high	≤9.5	8.1	8.0	8.0	8.1	8.1	8.2	8.1	8.3	8.5	8.3	8.3	8.2
Flow (m ³ /month)	—	66 626	86 196	82 540	72 918	79 835	63 516	80 832	64 388	67 677	77 840	75 842	95 737
Rainbow Trout	Pass	1	NMR	NMR	1	NMR	NMR	1	NMR	NMR	1	NMR	NMR
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
<i>Daphnia magna</i>	Pass	1	NMR	NMR	1	NMR	NMR	1	NMR	NMR	1	NMR	NMR
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
Comments:	As of November 1, 2008 the ownership of Géant Dormant (Mine) has been transferred from Gestion IAMGOLD Québec Inc. to Ressources Cadiscor Inc.												
Notes:	ND: No Deposit NMR: No Measurement Required Pass: ≤50% Mortality Fail: >50% Mortality Highlighted data indicate that a monthly effluent quality standard was exceeded for that month. A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement.												

Metal Mining Effluent Regulations (MMER) 2008 Effluent Compliance

Mine/Mill Name	Géant Dormant (Mine)												
Operator Name	Gestion IAMGOLD Québec Inc. / Ressources Cadiscor Inc.												
Product(s)	Gold												
Address	1075 3rd Avenue East, P.O. Box 9999, Val-d'Or, Quebec J9P 6M1												
Effluent Discharge Point	GD-E02 Final Effluent – Lamellar Clarifier												
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
As (mg/L)	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Cu (mg/L)	0.3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
CN (mg/L)	1.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Pb (mg/L)	0.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ni (mg/L)	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Zn (mg/L)	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
TSS (mg/L)	15	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ra-226 (Bq/L)	0.37	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
pH low	≥6.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
pH high	≤9.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Flow (m ³ /month)	—	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Rainbow Trout	Pass	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
<i>Daphnia magna</i>	Pass	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
Comments:	As of November 1, 2008 the ownership of Géant Dormant (Mine) has been transferred from Gestion IAMGOLD Québec Inc. to Ressources Cadiscor Inc.												
Notes:	ND: No Deposit NMR: No Measurement Required Highlighted data indicate that a monthly effluent quality standard was exceeded for that month. A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement.												
	Pass: ≤50% Mortality Fail: >50% Mortality												

Metal Mining Effluent Regulations (MMER) 2008 Effluent Compliance

Mine/Mill Name	Géant Dormant (Mine)												
Operator Name	Gestion IAMGOLD Québec Inc. / Ressources Cadiscor Inc.												
Product(s)	Gold												
Address	1075 3rd Avenue East, P.O. Box 9999, Val-d'Or, Quebec J9P 6M1												
Effluent Discharge Point	GD-E03 Polishing Pond 2A												
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.
As (mg/L)	0.5	ND	ND	ND	0.0005	-	ND	0.0003	0.0008	0.0003	NMR	ND	ND
Cu (mg/L)	0.3	ND	ND	ND	0.0200	-	ND	0.0151	0.0262	0.0167	NMR	ND	ND
CN (mg/L)	1.0	ND	ND	ND	0.0025	-	ND	0.0150	0.0090	0.0060	NMR	ND	ND
Pb (mg/L)	0.2	ND	ND	ND	0.0005	-	ND	0.0010	0.0024	0.0003	NMR	ND	ND
Ni (mg/L)	0.5	ND	ND	ND	0.0080	-	ND	0.0193	0.0131	0.0039	NMR	ND	ND
Zn (mg/L)	0.5	ND	ND	ND	0.0175	-	ND	0.0195	0.0013	0.0087	0.0138	ND	ND
TSS (mg/L)	15	ND	ND	ND	14.00	-	ND	3.50	3.25	3.40	14.50	ND	ND
Ra-226 (Bq/L)	0.37	ND	ND	ND	0.0020	-	ND	0.0020	0.0010	0.0020	0.0160	ND	ND
pH low	≥6.0	ND	ND	ND	7.4	-	ND	7.5	7.6	7.5	7.6	ND	ND
pH high	≤9.5	ND	ND	ND	7.5	-	ND	7.6	7.9	7.7	7.6	ND	ND
Flow (m ³ /month)	—	ND	ND	ND	39 846	9 577	ND	83 269	188 446	1 160 000	62 799	ND	ND
Rainbow Trout	Pass	ND	ND	ND	1	-	ND	1	1	1	1	ND	ND
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
<i>Daphnia magna</i>	Pass	ND	ND	ND	1	-	ND	1	1	1	1	ND	ND
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
Comments:	As of November 1, 2008 the ownership of Géant Dormant (Mine) has been transferred from Gestion IAMGOLD Québec Inc. to Ressources Cadiscor Inc. Only flow measurement was provided in May since the mine reported discharge of effluent during only 2 days.												
Notes:	ND: No Deposit NMR: No Measurement Required Highlighted data indicate that a monthly effluent quality standard was exceeded for that month. A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement.												
	Pass: ≤50% Mortality Fail: >50% Mortality												

Metal Mining Effluent Regulations (MMER) 2008 Effluent Compliance

Mine/Mill Name	Giant Mine												
Operator Name	Indian and Northern Affairs Canada												
Product(s)	Gold												
Address	Giant Minesite, Box 2951, Yellowknife, Northwest Territories X1A 2R2												
Effluent Discharge Point	Surveillance Network Program Station 43-1												
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.
As (mg/L)	0.5	ND	ND	ND	ND	ND	ND	0.1970	0.3540	ND	ND	ND	ND
Cu (mg/L)	0.3	ND	ND	ND	ND	ND	ND	0.0213	0.0102	ND	ND	ND	ND
CN (mg/L)	1.0	ND	ND	ND	ND	ND	ND	0.0038	0.0025	ND	ND	ND	ND
Pb (mg/L)	0.2	ND	ND	ND	ND	ND	ND	0.0002	0.0002	ND	ND	ND	ND
Ni (mg/L)	0.5	ND	ND	ND	ND	ND	ND	0.0299	0.0497	ND	ND	ND	ND
Zn (mg/L)	0.5	ND	ND	ND	ND	ND	ND	0.0165	0.0064	ND	ND	ND	ND
TSS (mg/L)	15	ND	ND	ND	ND	ND	ND	0.50	1.90	ND	ND	ND	ND
Ra-226 (Bq/L)	0.37	ND	ND	ND	ND	ND	ND	0.0025	0.0062	ND	ND	ND	ND
pH low	≥6.0	ND	ND	ND	ND	ND	ND	8.0000	7.8400	ND	ND	ND	ND
pH high	≤9.5	ND	ND	ND	ND	ND	ND	8.1	8.02	ND	ND	ND	ND
Flow (m ³ /month)	—	ND	ND	ND	ND	ND	ND	43 608	54 552	ND	ND	ND	ND
Rainbow Trout	Pass	ND	ND	ND	ND	ND	ND	1	2	ND	ND	ND	ND
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
<i>Daphnia magna</i>	Pass	ND	ND	ND	ND	ND	ND	1	2	ND	ND	ND	ND
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
Comments:													
Notes: ND: No Deposit NMR: No Measurement Required Pass: ≤50% Mortality Fail: >50% Mortality Highlighted data indicate that a monthly effluent quality standard was exceeded for that month. A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement.													

Metal Mining Effluent Regulations (MMER) 2008 Effluent Compliance

Mine/Mill Name	Golden Giant Mine												
Operator Name	Newmont Canada Ltd.												
Product(s)	Gold												
Address	Yellow Brick Road, Hwy. 17, P.O. Box 40, Marathon, Ontario P0T 2E0												
Effluent Discharge Point	Effluent Treatment Plant												
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.
As (mg/L)	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Cu (mg/L)	0.3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
CN (mg/L)	1.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Pb (mg/L)	0.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ni (mg/L)	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Zn (mg/L)	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
TSS (mg/L)	15	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ra-226 (Bq/L)	0.37	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
pH low	≥6.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
pH high	≤9.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Flow (m ³ /month)	—	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Rainbow Trout	Pass	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
<i>Daphnia magna</i>	Pass	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
Comments:													
Notes: ND: No Deposit NMR: No Measurement Required Pass: ≤50% Mortality Fail: >50% Mortality Highlighted data indicate that a monthly effluent quality standard was exceeded for that month. A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement.													

Metal Mining Effluent Regulations (MMER) 2008 Effluent Compliance

Mine/Mill Name	Golden Giant Mine												
Operator Name	Newmont Canada Ltd.												
Product(s)	Gold												
Address	Yellow Brick Road, Hwy. 17, P.O. Box 40, Marathon, Ontario P0T 2E0												
Effluent Discharge Point	Sedimentation Pond Effluent												
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
As (mg/L)	0.5	ND	ND	ND	0.0013	0.0018	0.0020	0.0020	0.0022	0.0021	0.0016	0.0017	ND
Cu (mg/L)	0.3	ND	ND	ND	0.0058	0.0033	0.0033	0.0029	0.0019	0.0023	0.0024	0.0031	ND
CN (mg/L)	1.0	ND	ND	ND	0.0018	0.0010	0.0010	0.0010	0.0004	0.0006	0.0017	0.0006	ND
Pb (mg/L)	0.2	ND	ND	ND	0.0006	0.0005	0.0005	0.0004	0.0001	0.0006	0.0002	0.0004	ND
Ni (mg/L)	0.5	ND	ND	ND	0.0108	0.0088	0.0090	0.0080	0.0076	0.0056	0.0054	0.0068	ND
Zn (mg/L)	0.5	ND	ND	ND	0.1725	0.0593	0.0865	0.0796	0.0402	0.0335	0.0275	0.0941	ND
TSS (mg/L)	15	ND	ND	ND	2.85	2.58	0.58	1.46	1.98	5.68	1.85	2.08	ND
Ra-226 (Bq/L)	0.37	ND	ND	ND	0.0050	0.0050	0.0050	0.0060	0.0050	0.0050	0.0075	0.0050	ND
pH low	≥6.0	ND	ND	ND	7.5	8.0	7.8	7.7	7.8	8.0	8.0	7.9	ND
pH high	≤9.5	ND	ND	ND	8.1	8.1	8.2	8.0	7.9	8.0	8.2	8.2	ND
Flow (m ³ /month)	—	ND	ND	ND	3 570	2 985	2 127	20 516	2 970	397	2 347	3 097	ND
Rainbow Trout	Pass	ND	ND	ND	1	1	1	1	1	1	1	1	ND
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
<i>Daphnia magna</i>	Pass	ND	ND	ND	1	1	1	1	1	1	1	1	ND
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
Comments:													
Notes: ND: No Deposit NMR: No Measurement Required Pass: ≤50% Mortality Fail: >50% Mortality Highlighted data indicate that a monthly effluent quality standard was exceeded for that month. A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement.													

Metal Mining Effluent Regulations (MMER) 2008 Effluent Compliance

Mine/Mill Name	Goldex (Mine)												
Operator Name	Mines Agnico-Eagle Ltée												
Product(s)	Gold												
Address	1953 3rd Avenue West, P.O. Box 87, Val-d'Or, Quebec J9P 4N9												
Effluent Discharge Point	Final Effluent												
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.
As (mg/L)	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Cu (mg/L)	0.3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
CN (mg/L)	1.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Pb (mg/L)	0.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ni (mg/L)	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Zn (mg/L)	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
TSS (mg/L)	15	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ra-226 (Bq/L)	0.37	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
pH low	≥6.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
pH high	≤9.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Flow (m ³ /month)	—	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Rainbow Trout	Pass	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
<i>Daphnia magna</i>	Pass	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
Comments:													
Notes: ND: No Deposit NMR: No Measurement Required Pass: ≤50% Mortality Fail: >50% Mortality Highlighted data indicate that a monthly effluent quality standard was exceeded for that month. A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement.													

Metal Mining Effluent Regulations (MMER) 2008 Effluent Compliance

Mine/Mill Name	Goldex (Mine)												
Operator Name	Mines Agnico-Eagle Ltée												
Product(s)	Gold												
Address	1953 3rd Avenue West, P.O. Box 87, Val-d'Or, Quebec J9P 4N9												
Effluent Discharge Point	Final Effluent – Goldex Tailings Pond												
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
As (mg/L)	0.5	-	-	-	-	0.0005	0.0005	0.0008	0.0020	ND	ND	ND	ND
Cu (mg/L)	0.3	-	-	-	-	0.0008	0.0020	0.0017	0.0030	ND	ND	ND	ND
CN (mg/L)	1.0	-	-	-	-	NMR	NMR	NMR	NMR	ND	ND	ND	ND
Pb (mg/L)	0.2	-	-	-	-	0.0020	0.0005	0.0007	0.0010	ND	ND	ND	ND
Ni (mg/L)	0.5	-	-	-	-	0.0060	0.0030	0.0032	0.0050	ND	ND	ND	ND
Zn (mg/L)	0.5	-	-	-	-	0.0200	0.0100	0.0120	0.0200	ND	ND	ND	ND
TSS (mg/L)	15	-	-	-	-	6.50	13.00	5.50	4.00	ND	ND	ND	ND
Ra-226 (Bq/L)	0.37	-	-	-	-	0.0040	-	0.0045	0.0040	ND	ND	ND	ND
pH low	≥6.0	-	-	-	-	6.8	7.4	7.2	7.6	ND	ND	ND	ND
pH high	≤9.5	-	-	-	-	7.4	7.4	7.5	7.6	ND	ND	ND	ND
Flow (m ³ /month)	—	-	-	-	-	351 240	44 421	448 962	221 403	ND	ND	ND	ND
Rainbow Trout	Pass	-	-	-	-	1	-	1	1	ND	ND	ND	ND
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
<i>Daphnia magna</i>	Pass	-	-	-	-	1	-	1	1	ND	ND	ND	ND
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
Comments:	This new final discharge point became subject to the MMER in May 2008. No radium 226 as well as toxicity test results were provided for June.												
Notes: ND: No Deposit	NMR: No Measurement Required												
Highlighted data indicate that a monthly effluent quality standard was exceeded for that month.	Pass: ≤50% Mortality												
A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement.	Fail: >50% Mortality												

Metal Mining Effluent Regulations (MMER) 2008 Effluent Compliance

Mine/Mill Name	Goldex (Mine)												
Operator Name	Mines Agnico-Eagle Ltée												
Product(s)	Gold												
Address	1953 3rd Avenue West, P.O. Box 87, Val-d'Or, Quebec J9P 4N9												
Effluent Discharge Point	Final Effluent – Shaft No. 2												
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.
As (mg/L)	0.5	0.0021	0.0023	0.0019	0.0029	ND	ND	ND	ND	ND	ND	ND	ND
Cu (mg/L)	0.3	0.0025	0.0020	0.0023	0.0069	ND	ND	ND	ND	ND	ND	ND	ND
CN (mg/L)	1.0	NMR	NMR	NMR	NMR	ND	ND	ND	ND	ND	ND	ND	ND
Pb (mg/L)	0.2	0.0005	0.0005	0.0006	0.0009	ND	ND	ND	ND	ND	ND	ND	ND
Ni (mg/L)	0.5	0.0056	0.0090	0.0058	0.0095	ND	ND	ND	ND	ND	ND	ND	ND
Zn (mg/L)	0.5	0.0264	0.0189	0.0140	0.0124	ND	ND	ND	ND	ND	ND	ND	ND
TSS (mg/L)	15	3.65	2.75	3.00	6.75	ND	ND	ND	ND	ND	ND	ND	ND
Ra-226 (Bq/L)	0.37	0.0020	NMR	NMR	0.0040	ND	ND	ND	ND	ND	ND	ND	ND
pH low	≥6.0	7.0	7.1	7.3	7.7	ND	ND	ND	ND	ND	ND	ND	ND
pH high	≤9.5	7.5	7.4	7.6	7.8	ND	ND	ND	ND	ND	ND	ND	ND
Flow (m ³ /month)	—	19 750	13 101	13 566	23 885	ND	ND	ND	ND	ND	ND	ND	ND
Rainbow Trout	Pass	1	NMR	NMR	1	ND	ND	ND	ND	ND	ND	ND	ND
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
<i>Daphnia magna</i>	Pass	1	NMR	NMR	1	ND	ND	ND	ND	ND	ND	ND	ND
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
Comments:													
Notes: ND: No Deposit NMR: No Measurement Required Pass: ≤50% Mortality Fail: >50% Mortality Highlighted data indicate that a monthly effluent quality standard was exceeded for that month. A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement.													

Metal Mining Effluent Regulations (MMER) 2008 Effluent Compliance

Mine/Mill Name	Haley Plant												
Operator Name	Timminco Ltd.												
Product(s)	Magnesium-Calcium-Strontium												
Address	962 Magnesium Road, Haley Station, Ontario K0J 1Y0												
Effluent Discharge Point	FDP 1												
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
As (mg/L)	0.5	NMR	0.0005	NMR	NMR	0.0005	NMR	NMR	0.0005	NMR	NMR	0.0005	NMR
Cu (mg/L)	0.3	NMR	0.0030	NMR	NMR	0.0020	NMR	NMR	0.0010	NMR	NMR	0.0020	NMR
CN (mg/L)	1.0	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR
Pb (mg/L)	0.2	NMR	0.0005	NMR	NMR	0.0005	NMR	NMR	0.0005	NMR	NMR	0.0005	NMR
Ni (mg/L)	0.5	NMR	0.0025	NMR	NMR	0.0025	NMR	NMR	0.0025	NMR	NMR	0.0025	NMR
Zn (mg/L)	0.5	NMR	0.0050	NMR	NMR	0.0100	NMR	NMR	0.0050	NMR	NMR	0.0050	NMR
TSS (mg/L)	15	1.50	1.00	2.00	1.40	1.50	2.00	3.00	2.50	4.60	3.00	5.67	1.00
Ra-226 (Bq/L)	0.37	NMR	0.0050	NMR	NMR	0.0050	NMR	NMR	0.0050	NMR	NMR	0.0100	NMR
pH low	≥6.0	7.5	7.3	7.3	7.3	7.2	7.1	7.6	7.7	7.0	7.8	7.7	7.3
pH high	≤9.5	7.7	7.5	7.4	7.7	7.4	7.3	7.9	8.1	7.9	8.0	7.9	7.8
Flow (m ³ /month)	—	22 855	61 190	65 410	69 996	59 543	54 690	552	302	18 816	457	720	28 780
Rainbow Trout	Pass	1	1	1	1	1	1	1	1	NMR	NMR	1	NMR
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
<i>Daphnia magna</i>	Pass	1	1	1	1	1	1	1	1	NMR	NMR	1	NMR
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
Comments:													
Notes: ND: No Deposit NMR: No Measurement Required Pass: ≤50% Mortality Fail: >50% Mortality Highlighted data indicate that a monthly effluent quality standard was exceeded for that month. A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement.													

Metal Mining Effluent Regulations (MMER) 2008 Effluent Compliance

Mine/Mill Name	Hislop Mine												
Operator Name	St Andrew Goldfields Ltd.												
Product(s)	Gold												
Address	80 km east of Timmins and 1 km west off Hwy 572, Timmins, Ontario P0K 1N0												
Effluent Discharge Point	Sedimentation Pond												
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.
As (mg/L)	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Cu (mg/L)	0.3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
CN (mg/L)	1.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Pb (mg/L)	0.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ni (mg/L)	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Zn (mg/L)	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
TSS (mg/L)	15	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ra-226 (Bq/L)	0.37	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
pH low	≥6.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
pH high	≤9.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Flow (m ³ /month)	—	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Rainbow Trout	Pass	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
<i>Daphnia magna</i>	Pass	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
Comments:													
Notes: ND: No Deposit NMR: No Measurement Required Pass: ≤50% Mortality Fail: >50% Mortality Highlighted data indicate that a monthly effluent quality standard was exceeded for that month. A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement.													

Metal Mining Effluent Regulations (MMER) 2008 Effluent Compliance

Mine/Mill Name	Holloway Mine												
Operator Name	Holloway Mining Company												
Product(s)	Gold												
Address	Highway 101E, P.O. Box 609, Matheson, Ontario P0K 1N0												
Effluent Discharge Point	Final Discharge Point												
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
As (mg/L)	0.5	ND	ND	ND	ND	ND	ND	ND	0.0030	0.0030	0.0030	0.0023	ND
Cu (mg/L)	0.3	ND	ND	ND	ND	ND	ND	ND	0.0070	0.0126	0.0060	0.0060	ND
CN (mg/L)	1.0	ND	ND	ND	ND	ND	ND	ND	0.0070	0.0050	0.0052	0.0005	ND
Pb (mg/L)	0.2	ND	ND	ND	ND	ND	ND	ND	0.0003	0.0177	0.0003	0.0005	ND
Ni (mg/L)	0.5	ND	ND	ND	ND	ND	ND	ND	0.0080	0.0090	0.0059	0.0100	ND
Zn (mg/L)	0.5	ND	ND	ND	ND	ND	ND	ND	0.0010	0.0485	0.0028	0.0015	ND
TSS (mg/L)	15	ND	ND	ND	ND	ND	ND	ND	1.00	1.38	2.70	3.18	ND
Ra-226 (Bq/L)	0.37	ND	ND	ND	ND	ND	ND	ND	0.0010	0.0010	0.0050	0.0050	ND
pH low	≥6.0	ND	ND	ND	ND	ND	ND	ND	7.5	7.4	7.1	7.2	ND
pH high	≤9.5	ND	ND	ND	ND	ND	ND	ND	7.5	7.6	7.6	7.3	ND
Flow (m ³ /month)	—	ND	ND	ND	ND	ND	ND	ND	24 006	500 733	1 232 306	940 356	ND
Rainbow Trout	Pass	ND	ND	ND	ND	ND	ND	ND	1	1	1	1	ND
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
<i>Daphnia magna</i>	Pass	ND	ND	ND	ND	ND	ND	ND	1	1	1	1	ND
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
Comments:													
Notes: ND: No Deposit NMR: No Measurement Required Pass: ≤50% Mortality Fail: >50% Mortality Highlighted data indicate that a monthly effluent quality standard was exceeded for that month. A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement.													

Metal Mining Effluent Regulations (MMER) 2008 Effluent Compliance

Mine/Mill Name	Horne (Smelter)												
Operator Name	Xstrata Canada Corporation												
Product(s)	Copper												
Address	P.O. Box 4000, Rouyn-Noranda, Quebec J9X 5B6												
Effluent Discharge Point	Final Effluent – Pelletier Sector												
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
As (mg/L)	0.5	0.0050	0.0050	0.0050	0.0050	0.0050	0.0050	0.0050	0.0050	0.0050	0.0050	0.0050	0.0050
Cu (mg/L)	0.3	0.0713	0.0141	0.0168	0.0623	0.0388	0.0373	0.0238	0.0153	0.0584	0.0190	0.0228	0.0298
CN (mg/L)	1.0	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR
Pb (mg/L)	0.2	0.0050	0.0050	0.0050	0.0100	0.0100	0.0050	0.0050	0.0050	0.0050	0.0063	0.0050	0.0080
Ni (mg/L)	0.5	0.0050	0.0050	0.0050	0.0063	0.0075	0.0063	0.0060	0.0050	0.0060	0.0063	0.0075	0.0070
Zn (mg/L)	0.5	0.2175	0.1118	0.0972	0.2275	0.2225	0.0758	0.1082	0.0525	0.1536	0.1633	0.2485	0.2480
TSS (mg/L)	15	5.25	5.25	9.80	11.25	7.25	5.00	1.80	2.00	1.60	2.75	2.50	13.80
Ra-226 (Bq/L)	0.37	0.0063	0.0050	0.0050	NMR	NMR	0.0050	NMR	NMR	0.0050	NMR	NMR	0.0050
pH low	≥6.0	6.9	7.0	7.0	7.1	7.4	7.3	7.1	7.3	7.2	7.4	6.9	6.9
pH high	≤9.5	7.1	7.3	7.3	9.2	7.5	7.7	7.4	7.4	7.4	7.5	7.6	7.2
Flow (m ³ /month)	—	276 768	154 512	218 736	1 604 592	413 712	198 432	1 114 328	562 910	612 916	67 260	68 569	82 316
Rainbow Trout	Pass	1	1	1	1	1	1	1	1	1	1	1	1
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
<i>Daphnia magna</i>	Pass	1	1	1	1	1	1	1	1	1	1	1	1
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
Comments:													
Notes: ND: No Deposit NMR: No Measurement Required Pass: ≤50% Mortality Fail: >50% Mortality Highlighted data indicate that a monthly effluent quality standard was exceeded for that month. A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement.													

Metal Mining Effluent Regulations (MMER) 2008 Effluent Compliance

Mine/Mill Name	Huckleberry Mine												
Operator Name	Huckleberry Mines Ltd.												
Product(s)	Copper-Molybdenum-Gold-Silver												
Address	P.O. Box 3000, Houston, British Columbia V0J 1Z0												
Effluent Discharge Point	Hu.EZDD – East Zone Diversion Ditch												
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
As (mg/L)	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Cu (mg/L)	0.3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
CN (mg/L)	1.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Pb (mg/L)	0.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ni (mg/L)	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Zn (mg/L)	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
TSS (mg/L)	15	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ra-226 (Bq/L)	0.37	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
pH low	≥6.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
pH high	≤9.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Flow (m ³ /month)	—	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Rainbow Trout	Pass	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
<i>Daphnia magna</i>	Pass	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
Comments:	No annual report was submitted. The annual report was completed from the quarterly reports.												
Notes:	ND: No Deposit Highlighted data indicate that a monthly effluent quality standard was exceeded for that month. A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement. NMR: No Measurement Required Pass: ≤50% Mortality Fail: >50% Mortality												

Metal Mining Effluent Regulations (MMER) 2008 Effluent Compliance

Mine/Mill Name	Huckleberry Mine												
Operator Name	Huckleberry Mines Ltd.												
Product(s)	Copper-Molybdenum-Gold-Silver												
Address	P.O. Box 3000, Houston, British Columbia V0J 1Z0												
Effluent Discharge Point	Hu.SC3 – Sediment Control Structure 3												
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
As (mg/L)	0.5	0.0008	0.0007	0.0009	0.0011	0.0027	0.0097	0.0038	0.0022	0.0018	0.0014	0.0013	0.0010
Cu (mg/L)	0.3	0.0469	0.0474	0.0488	0.0559	0.0473	0.0289	0.0243	0.0214	0.0208	0.0226	0.0326	0.0413
CN (mg/L)	1.0	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR
Pb (mg/L)	0.2	0.0001	0.0000	0.0000	0.0000	0.0001	0.0001	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Ni (mg/L)	0.5	0.0009	0.0008	0.0012	0.0010	0.0009	0.0004	0.0006	0.0007	0.0009	0.0035	0.0068	0.0037
Zn (mg/L)	0.5	0.0168	0.0163	0.0162	0.0169	0.0081	0.0034	0.0058	0.0071	0.0084	0.0114	0.0191	0.0190
TSS (mg/L)	15	0.60	0.63	0.60	0.50	2.13	0.50	0.50	0.50	0.50	0.50	0.63	0.50
Ra-226 (Bq/L)	0.37	NMR	0.0025	NMR	NMR	0.0025	NMR	NMR	0.0025	NMR	NMR	NMR	0.0080
pH low	≥6.0	7.8	7.9	7.8	7.8	7.7	8.1	7.9	7.9	7.9	7.9	7.8	7.7
pH high	≤9.5	8.0	8.0	8.0	8.6	8.0	8.2	8.0	8.0	8.0	8.0	8.0	7.8
Flow (m ³ /month)	—	13 016	11 935	10 310	25 020	62 558	56 640	10 607	9 269	5 730	6 095	12 188	18 037
Rainbow Trout	Pass	1	NMR	NMR	NMR	NMR	1	NMR	1	NMR	NMR	1	NMR
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
<i>Daphnia magna</i>	Pass	-	NMR	NMR	NMR	NMR	1	NMR	1	NMR	NMR	1	NMR
Monitoring Test	Fail	1	-	-	-	-	-	-	-	-	-	-	-
Comments:													
Notes: ND: No Deposit NMR: No Measurement Required Pass: ≤50% Mortality Fail: >50% Mortality Highlighted data indicate that a monthly effluent quality standard was exceeded for that month. A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement.													

Metal Mining Effluent Regulations (MMER) 2008 Effluent Compliance

Mine/Mill Name	Huckleberry Mine												
Operator Name	Huckleberry Mines Ltd.												
Product(s)	Copper-Molybdenum-Gold-Silver												
Address	P.O. Box 3000, Houston, British Columbia V0J 1Z0												
Effluent Discharge Point	Hu.SC4 – Sediment Control Structure 4												
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
As (mg/L)	0.5	ND	ND	ND	ND	0.0005	ND	ND	ND	ND	ND	ND	ND
Cu (mg/L)	0.3	ND	ND	ND	ND	0.0414	ND	ND	ND	ND	ND	ND	ND
CN (mg/L)	1.0	ND	ND	ND	ND	NMR	ND	ND	ND	ND	ND	ND	ND
Pb (mg/L)	0.2	ND	ND	ND	ND	0.0001	ND	ND	ND	ND	ND	ND	ND
Ni (mg/L)	0.5	ND	ND	ND	ND	0.0084	ND	ND	ND	ND	ND	ND	ND
Zn (mg/L)	0.5	ND	ND	ND	ND	0.0131	ND	ND	ND	ND	ND	ND	ND
TSS (mg/L)	15	ND	ND	ND	ND	1.50	ND	ND	ND	ND	ND	ND	ND
Ra-226 (Bq/L)	0.37	ND	ND	ND	ND	0.0025	ND	ND	ND	ND	ND	ND	ND
pH low	≥6.0	ND	ND	ND	ND	7.7	ND	ND	ND	ND	ND	ND	ND
pH high	≤9.5	ND	ND	ND	ND	7.9	ND	ND	ND	ND	ND	ND	ND
Flow (m ³ /month)	—	ND	ND	ND	ND	56 560	ND	ND	ND	ND	ND	ND	ND
Rainbow Trout	Pass	ND	ND	ND	ND	-	ND	ND	ND	ND	ND	ND	ND
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
<i>Daphnia magna</i>	Pass	ND	ND	ND	ND	-	ND	ND	ND	ND	ND	ND	ND
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
Comments:	No annual report was submitted. The annual report was completed from the quarterly reports. No toxicity test results were provided.												
Notes:	ND: No Deposit NMR: No Measurement Required Highlighted data indicate that a monthly effluent quality standard was exceeded for that month. A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement.												

Pass: ≤50% Mortality
Fail: >50% Mortality

Metal Mining Effluent Regulations (MMER) 2008 Effluent Compliance

Mine/Mill Name	Huckleberry Mine												
Operator Name	Huckleberry Mines Ltd.												
Product(s)	Copper-Molybdenum-Gold-Silver												
Address	P.O. Box 3000, Houston, British Columbia V0J 1Z0												
Effluent Discharge Point	Hu.TMF2 – Tailings Management Facility 2 Supernatant												
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
As (mg/L)	0.5	0.0010	0.0010	0.0015	0.0018	0.0011	0.0031	0.0023	0.0012	0.0008	0.0011	ND	0.0016
Cu (mg/L)	0.3	0.0337	0.2117	0.0108	0.0054	0.0097	0.0038	0.0073	0.0007	0.0010	0.0045	ND	0.0016
CN (mg/L)	1.0	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	ND	NMR
Pb (mg/L)	0.2	0.0002	0.0006	0.0000	0.0091	0.0002	0.0001	0.0000	0.0000	0.0001	0.0001	ND	0.0001
Ni (mg/L)	0.5	0.0014	0.0023	0.0007	0.0007	0.0003	0.0003	0.0005	0.0015	0.0017	0.0050	ND	0.0059
Zn (mg/L)	0.5	0.0016	0.0033	0.0002	0.0032	0.0008	0.0007	0.0007	0.0004	0.0003	0.0038	ND	0.0008
TSS (mg/L)	15	4.00	4.50	6.70	2.25	3.50	3.75	6.33	4.00	8.25	12.00	ND	3.25
Ra-226 (Bq/L)	0.37	NMR	0.0025	NMR	NMR	0.0025	NMR	NMR	0.0025	NMR	NMR	ND	0.0070
pH low	≥6.0	7.8	7.8	7.3	8.6	7.2	6.7	6.5	7.6	7.7	7.8	ND	7.5
pH high	≤9.5	10.0	7.8	9.8	9.6	8.9	7.2	7.0	7.8	7.8	7.8	ND	7.7
Flow (m ³ /month)	—	219 690	75 789	315 588	272 842	503 556	625 343	265 603	322 771	17 396	88 393	ND	368 437
Rainbow Trout	Pass	1	1	1	1	1	1	1	1	1	1	ND	1
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
<i>Daphnia magna</i>	Pass	1	-	1	1	1	-	1	1	1	1	ND	1
Monitoring Test	Fail	-	1	-	-	-	1	-	-	-	-	-	-
Comments:													
Notes: ND: No Deposit NMR: No Measurement Required Pass: ≤50% Mortality Fail: >50% Mortality Highlighted data indicate that a monthly effluent quality standard was exceeded for that month. A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement.													

Metal Mining Effluent Regulations (MMER) 2008 Effluent Compliance

Mine/Mill Name	Iron Ore Company of Canada – Carol Project												
Operator Name	Iron Ore Company of Canada												
Product(s)	Iron												
Address	2 Avalon Drive, Labrador City, Newfoundland and Labrador A2V 2Y6												
Effluent Discharge Point	Beaver Bay Discharge												
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
As (mg/L)	0.5	0.0043	0.0053	0.0032	0.0055	0.0151	0.0062	0.0020	0.0025	0.0005	ND	0.0050	ND
Cu (mg/L)	0.3	0.0032	0.0025	0.0036	0.0025	0.0063	0.0097	0.0020	0.0025	0.0005	ND	0.0050	ND
CN (mg/L)	1.0	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	ND	NMR	ND
Pb (mg/L)	0.2	0.0009	0.0009	0.0006	0.0016	0.0015	0.0011	0.0004	0.0020	0.0000	ND	0.0040	ND
Ni (mg/L)	0.5	0.0036	0.0031	0.0025	0.0043	0.0063	0.0022	0.0020	0.0025	0.0020	ND	0.0050	ND
Zn (mg/L)	0.5	0.0460	0.0175	0.0100	0.0075	0.0138	0.0098	0.0078	0.0200	0.0200	ND	0.0800	ND
TSS (mg/L)	2 244	245.20	199.00	161.80	242.00	289.50	215.80	20.75	13.00	5.00	ND	227.00	ND
Ra-226 (Bq/L)	0.37	NMR	0.0050	NMR	NMR	NMR	0.0050	NMR	0.0050	NMR	ND	-	ND
pH low	≥6.0	7.0	7.0	7.3	7.6	7.6	7.1	7.6	8.6	8.7	ND	9.0	ND
pH high	≤9.5	8.9	9.1	8.3	9.7	8.9	9.8	8.0	8.6	8.7	ND	9.0	ND
Flow (m ³ /month)	—	2 189 407	1 854 635	2 094 976	1 818 670	1 869 607	532 425	547 519	6 979	14 554	ND	4 054	ND
Rainbow Trout	Pass	NMR	1	NMR	NMR	NMR	1	NMR	1	NMR	ND	1	ND
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
<i>Daphnia magna</i>	Pass	NMR	1	NMR	NMR	NMR	1	NMR	1	NMR	ND	1	ND
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
Comments:	Extended TA was granted for TSS limit of 2 244 mg/L. TA expired on December 6, 2008. No radium 226 test result was provided for the fourth quarter.												
Notes:	ND: No Deposit NMR: No Measurement Required Pass: ≤50% Mortality Fail: >50% Mortality Highlighted data indicate that a monthly effluent quality standard was exceeded for that month. A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement.												

Metal Mining Effluent Regulations (MMER) 2008 Effluent Compliance

Mine/Mill Name	Iron Ore Company of Canada – Carol Project												
Operator Name	Iron Ore Company of Canada												
Product(s)	Iron												
Address	2 Avalon Drive, Labrador City, Newfoundland and Labrador A2V 2Y6												
Effluent Discharge Point	Hakim Culvert												
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
As (mg/L)	0.5	ND	ND	ND	ND	0.0025	0.0021	0.0010	0.0005	0.0004	0.0005	ND	ND
Cu (mg/L)	0.3	ND	ND	ND	ND	0.0025	0.0022	0.0016	0.0009	0.0006	0.0005	ND	ND
CN (mg/L)	1.0	ND	ND	ND	ND	NMR	NMR	NMR	NMR	NMR	NMR	ND	ND
Pb (mg/L)	0.2	ND	ND	ND	ND	0.0045	0.0001	0.0002	0.0003	0.0001	0.0001	ND	ND
Ni (mg/L)	0.5	ND	ND	ND	ND	0.0033	0.0023	0.0021	0.0006	0.0015	0.0010	ND	ND
Zn (mg/L)	0.5	ND	ND	ND	ND	0.0240	0.0094	0.0093	0.0023	0.0140	0.0200	ND	ND
TSS (mg/L)	15	ND	ND	ND	ND	135.33	15.20	5.75	5.75	5.00	5.00	ND	ND
Ra-226 (Bq/L)	0.37	ND	ND	ND	ND	0.0050	0.0050	0.0050	0.0050	0.0050	-	ND	ND
pH low	≥6.0	ND	ND	ND	ND	7.7	6.7	8.0	8.1	7.1	7.3	ND	ND
pH high	≤9.5	ND	ND	ND	ND	8.3	8.8	8.3	8.5	8.8	7.3	ND	ND
Flow (m ³ /month)	—	ND	ND	ND	ND	565 365	177 101	1 436 506	631 861	89 989	14	ND	ND
Rainbow Trout	Pass	ND	ND	ND	ND	1	1	-	1	1	-	ND	ND
Acute Lethality Test	Fail	-	-	-	-	-	-	1	-	-	-	-	-
<i>Daphnia magna</i>	Pass	ND	ND	ND	ND	1	1	1	1	1	-	ND	ND
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
Comments:	No toxicity test results were provided for October. No radium 226 test result was provided for the fourth quarter.												
Notes:	ND: No Deposit NMR: No Measurement Required Highlighted data indicate that a monthly effluent quality standard was exceeded for that month. A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement.												
	Pass: ≤50% Mortality Fail: >50% Mortality												

Metal Mining Effluent Regulations (MMER) 2008 Effluent Compliance

Mine/Mill Name	Iron Ore Company of Canada – Carol Project												
Operator Name	Iron Ore Company of Canada												
Product(s)	Iron												
Address	2 Avalon Drive, Labrador City, Newfoundland and Labrador A2V 2Y6												
Effluent Discharge Point	Julienne Narrows												
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.
As (mg/L)	0.5	-	-	-	-	-	-	-	0.0008	0.0004	0.0005	0.0005	0.0005
Cu (mg/L)	0.3	-	-	-	-	-	-	-	0.0013	0.0009	0.0006	0.0009	0.0005
CN (mg/L)	1.0	-	-	-	-	-	-	-	NMR	NMR	NMR	NMR	NMR
Pb (mg/L)	0.2	-	-	-	-	-	-	-	0.0004	0.0001	0.0002	0.0001	0.0001
Ni (mg/L)	0.5	-	-	-	-	-	-	-	0.0010	0.0005	0.0005	0.0005	0.0006
Zn (mg/L)	0.5	-	-	-	-	-	-	-	0.0020	0.0011	0.0008	0.0021	0.0010
TSS (mg/L)	15	-	-	-	-	-	-	-	5.00	5.00	5.00	3.75	1.00
Ra-226 (Bq/L)	0.37	-	-	-	-	-	-	-	0.0050	0.0050	0.0050	0.0050	NMR
pH low	≥6.0	-	-	-	-	-	-	-	-	-	6.4	6.9	7.3
pH high	≤9.5	-	-	-	-	-	-	-	-	-	8.1	8.0	8.0
Flow (m ³ /month)	—	-	-	-	-	-	-	-	-	-	47 996 928	64 851 840	78 959 232
Rainbow Trout	Pass	-	-	-	-	-	-	-	-	-	1	1	1
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
<i>Daphnia magna</i>	Pass	-	-	-	-	-	-	-	-	-	1	1	1
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
Comments:	This new final discharge point became subject to the MMER in August 2008. The annual report was submitted to Environment Canada Regional Office and was completed from the quarterly reports. Flow, pH and toxicity data were not provided for August and September.												
Notes: ND: No Deposit	NMR: No Measurement Required												
Highlighted data indicate that a monthly effluent quality standard was exceeded for that month.	Pass: ≤50% Mortality												
A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement.	Fail: >50% Mortality												

Metal Mining Effluent Regulations (MMER) 2008 Effluent Compliance

Mine/Mill Name	Iron Ore Company of Canada – Carol Project												
Operator Name	Iron Ore Company of Canada												
Product(s)	Iron												
Address	2 Avalon Drive, Labrador City, Newfoundland and Labrador A2V 2Y6												
Effluent Discharge Point	Main Tailings Discharge												
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
As (mg/L)	0.5	0.3000	0.2250	0.4600	0.3750	0.6250	0.2960	0.2000	0.0400	0.4833	0.2750	0.3475	0.2400
Cu (mg/L)	0.3	0.1600	0.1313	0.1500	0.1875	0.3500	0.1500	0.1175	0.0200	0.1833	0.1425	0.1688	0.0910
CN (mg/L)	1.0	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR
Pb (mg/L)	0.2	0.0300	0.0181	0.0220	0.0350	0.0500	0.0300	0.0225	0.0020	0.0367	0.0175	0.0213	0.0150
Ni (mg/L)	0.5	0.1800	0.1313	0.1500	0.1875	0.3000	0.1500	0.1700	0.0100	0.2333	0.2150	0.1938	0.1100
Zn (mg/L)	0.5	0.3400	0.3000	0.5400	0.4000	0.6250	0.5000	0.3000	0.0400	0.5000	0.3000	0.3300	0.2400
TSS (mg/L)	42 160	24 740	21 650	25 309	50 450	40 825	82 600	13 175	13 800	22 200	42 850	29 875	30 940
Ra-226 (Bq/L)	0.37	NMR	0.0300	NMR	NMR	NMR	0.0400	NMR	0.0200	0.0300	0.1300	0.0050	NMR
pH low	≥6.0	8.4	8.5	8.2	8.2	8.5	6.7	8.1	8.7	8.1	8.1	7.0	7.7
pH high	≤9.5	8.7	9.0	8.8	9.0	9.0	8.9	8.7	8.7	9.3	8.4	9.0	8.8
Flow (m ³ /month)	—	10 425 747	8 831 597	9 976 078	8 660 335	8 902 888	8 218 738	8 581 647	8 458 640	8 178 725	8 537 163	10 536 491	12 955 081
Rainbow Trout	Pass	NMR	1	NMR	NMR	NMR	1	NMR	1	NMR	1	NMR	NMR
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
<i>Daphnia magna</i>	Pass	NMR	1	NMR	NMR	NMR	1	NMR	1	NMR	1	NMR	NMR
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
Comments:	Extended TA was granted for TSS limit of 42 160 mg/L. TA expired on December 6, 2008.												
Notes:	ND: No Deposit NMR: No Measurement Required Highlighted data indicate that a monthly effluent quality standard was exceeded for that month. A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement.												
	Pass: ≤50% Mortality Fail: >50% Mortality												

Metal Mining Effluent Regulations (MMER) 2008 Effluent Compliance

Mine/Mill Name	Iron Ore Company of Canada – Carol Project												
Operator Name	Iron Ore Company of Canada												
Product(s)	Iron												
Address	2 Avalon Drive, Labrador City, Newfoundland and Labrador A2V 2Y6												
Effluent Discharge Point	MD5												
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
As (mg/L)	0.5	ND	ND	ND	ND	0.0139	0.0005	0.0005	0.0005	0.0004	0.0005	0.0015	ND
Cu (mg/L)	0.3	ND	ND	ND	ND	0.0139	0.0005	0.0005	0.0005	0.0006	0.0010	0.0015	ND
CN (mg/L)	1.0	ND	ND	ND	ND	NMR	NMR	NMR	NMR	NMR	NMR	NMR	ND
Pb (mg/L)	0.2	ND	ND	ND	ND	0.0053	0.0001	0.0001	0.0007	0.0001	0.0003	0.0004	ND
Ni (mg/L)	0.5	ND	ND	ND	ND	0.0139	0.0005	0.0010	0.0006	0.0012	0.0020	0.0018	ND
Zn (mg/L)	0.5	ND	ND	ND	ND	0.0550	0.0026	0.0010	0.0010	0.0020	0.0020	0.0045	ND
TSS (mg/L)	15	ND	ND	ND	ND	26.25	5.60	5.00	5.50	7.40	18.00	11.50	ND
Ra-226 (Bq/L)	0.37	ND	ND	ND	ND	NMR	0.0050	NMR	0.0050	0.0050	NMR	0.0050	ND
pH low	≥6.0	ND	ND	ND	ND	7.2	7.0	7.2	7.7	7.7	7.2	7.4	ND
pH high	≤9.5	ND	ND	ND	ND	7.9	8.4	8.2	9.2	8.8	7.2	8.9	ND
Flow (m ³ /month)	—	ND	ND	ND	ND	160 908	8 510	247 096	7 097	662	1 762	2 240	ND
Rainbow Trout	Pass	ND	ND	ND	ND	1	1	1	1	1	-	1	ND
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
<i>Daphnia magna</i>	Pass	ND	ND	ND	ND	1	1	1	1	1	-	1	ND
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
Comments:	The annual report was submitted to Environment Canada Regional Office and was completed from the quarterly reports. No toxicity test results were provided for October.												
Notes:	ND: No Deposit NMR: No Measurement Required Highlighted data indicate that a monthly effluent quality standard was exceeded for that month. A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement.												
	Pass: ≤50% Mortality Fail: >50% Mortality												

Metal Mining Effluent Regulations (MMER) 2008 Effluent Compliance

Mine/Mill Name	Iron Ore Company of Canada – Carol Project												
Operator Name	Iron Ore Company of Canada												
Product(s)	Iron												
Address	2 Avalon Drive, Labrador City, Newfoundland and Labrador A2V 2Y6												
Effluent Discharge Point	Old Tailings Pumphouse Discharge												
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
As (mg/L)	0.5	0.0132	0.0084	0.0039	0.0051	0.0214	0.0105	0.0005	0.0005	0.0005	0.0011	0.1005	0.0065
Cu (mg/L)	0.3	0.0068	0.0066	0.0036	0.0034	0.0093	0.0063	0.0015	0.0020	0.0015	0.0013	0.0505	0.0023
CN (mg/L)	1.0	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR
Pb (mg/L)	0.2	0.0012	0.0007	0.0005	0.0009	0.0008	0.0007	0.0001	0.0001	0.0001	0.0002	0.0026	0.0004
Ni (mg/L)	0.5	0.0092	0.0034	0.0021	0.0031	0.0050	0.0058	0.0006	0.0005	0.0005	0.0009	0.0505	0.0018
Zn (mg/L)	0.5	0.0142	0.0105	0.0154	0.0125	0.0143	0.0120	0.0015	0.0030	0.0010	0.0075	0.0510	0.0157
TSS (mg/L)	4 385	730.40	597.75	335.40	416.00	2015.25	1417.40	5.00	5.00	11.00	205.25	2546.00	418.00
Ra-226 (Bq/L)	0.37	NMR	0.0050	NMR	NMR	NMR	0.0050	NMR	0.0050	NMR	0.0050	0.0200	NMR
pH low	≥6.0	7.6	7.9	7.5	7.4	7.3	7.1	6.7	8.0	8.1	6.4	5.9	7.1
pH high	≤9.5	8.4	8.3	8.9	8.2	8.1	7.9	7.8	8.0	8.1	7.9	7.4	8.4
Flow (m ³ /month)	—	464 115	493 848	437 522	428 374	492 993	515 562	64 551	36 838	9 329	146 063	40 931	73 676
Rainbow Trout	Pass	NMR	1	NMR	NMR	NMR	1	NMR	1	NMR	1	NMR	NMR
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
<i>Daphnia magna</i>	Pass	NMR	1	NMR	NMR	NMR	1	NMR	1	NMR	1	NMR	NMR
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
Comments:	Extended TA was granted for TSS limit of 4 385 mg/L. TA expired on December 6, 2008. The annual report was submitted to Environment Canada Regional Office and was completed from the quarterly reports.												
Notes:	ND: No Deposit NMR: No Measurement Required Pass: ≤50% Mortality Fail: >50% Mortality Highlighted data indicate that a monthly effluent quality standard was exceeded for that month. A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement.												

Metal Mining Effluent Regulations (MMER) 2008 Effluent Compliance

Mine/Mill Name	Iron Ore Company of Canada – Carol Project												
Operator Name	Iron Ore Company of Canada												
Product(s)	Iron												
Address	2 Avalon Drive, Labrador City, Newfoundland and Labrador A2V 2Y6												
Effluent Discharge Point	Ore Car Flume												
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
As (mg/L)	0.5	0.1980	0.1075	0.0050	0.0635	0.2613	0.0580	0.0025	0.0050	0.0127	0.0073	ND	ND
Cu (mg/L)	0.3	0.1100	0.0625	0.0025	0.0331	0.3044	0.0270	0.0025	0.0025	0.0048	0.0033	ND	ND
CN (mg/L)	1.0	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	ND	ND
Pb (mg/L)	0.2	0.0090	0.0063	0.0005	0.0034	0.0506	0.0039	0.0005	0.0005	0.0007	0.0006	ND	ND
Ni (mg/L)	0.5	0.0920	0.0625	0.0025	0.0294	0.2531	0.0350	0.0025	0.0025	0.0033	0.0037	ND	ND
Zn (mg/L)	0.5	0.2000	0.1250	0.0160	0.0663	0.6700	0.0860	0.0113	0.0050	0.0133	0.0073	ND	ND
TSS (mg/L)	15 850	22 910.00	13 430.00	7 376.40	7 820.00	7 755.50	5 208.00	314.50	363.00	1 066.67	1 441.67	ND	ND
Ra-226 (Bq/L)	0.37	NMR	0.0050	NMR	NMR	NMR	0.0200	NMR	0.0050	0.0050	0.0050	ND	ND
pH low	≥6.0	8.4	7.6	7.5	8.4	8.4	7.1	8.1	8.8	8.5	7.7	ND	ND
pH high	≤9.5	8.9	8.9	8.9	9.4	9.2	9.0	8.9	8.8	8.9	8.8	ND	ND
Flow (m ³ /month)	—	4 219 226	4 305 355	3 977 469	3 894 311	4 366 993	4 779 853	5 121 816	4 658 506	5 016 658	600 153	ND	ND
Rainbow Trout	Pass	NMR	1	NMR	NMR	NMR	1	NMR	1	NMR	1	ND	ND
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
<i>Daphnia magna</i>	Pass	NMR	1	NMR	NMR	NMR	1	NMR	1	NMR	1	ND	ND
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
Comments:	Extended TA was granted for TSS limit of 15 850 mg/L. TA expired on December 6, 2008.												
Notes:	ND: No Deposit NMR: No Measurement Required Highlighted data indicate that a monthly effluent quality standard was exceeded for that month. A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement. Pass: ≤50% Mortality Fail: >50% Mortality												

Metal Mining Effluent Regulations (MMER) 2008 Effluent Compliance

Mine/Mill Name	Island Gold Project												
Operator Name	Richmont Mines Inc.												
Product(s)	Gold												
Address	Goudreau Road, Dubreuilville, Ontario P0S 1B0												
Effluent Discharge Point	IG-2												
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.
As (mg/L)	0.5	ND	ND	ND	0.0005	0.0005	0.0005	ND	0.0015	0.0012	0.0030	0.0011	ND
Cu (mg/L)	0.3	ND	ND	ND	0.0021	0.0034	0.0049	ND	0.0054	0.0054	0.0073	0.0015	ND
CN (mg/L)	1.0	ND	ND	ND	0.0102	0.0019	0.0005	ND	0.0005	0.0363	0.0028	0.0055	ND
Pb (mg/L)	0.2	ND	ND	ND	0.0005	0.0005	0.0005	ND	0.0005	0.0005	0.0005	0.0005	ND
Ni (mg/L)	0.5	ND	ND	ND	0.0048	0.0030	0.0037	ND	0.0043	0.0054	0.0073	0.0037	ND
Zn (mg/L)	0.5	ND	ND	ND	0.0020	0.0039	0.0029	ND	0.0082	0.0047	0.0005	0.0020	ND
TSS (mg/L)	15	ND	ND	ND	3.87	7.20	3.95	ND	2.90	5.90	15.00	9.70	ND
Ra-226 (Bq/L)	0.37	ND	ND	ND	0.0050	NMR	NMR	ND	0.0050	NMR	0.0050	NMR	ND
pH low	≥6.0	ND	ND	ND	7.3	7.5	8.0	ND	7.8	7.9	7.8	7.7	ND
pH high	≤9.5	ND	ND	ND	7.4	8.0	8.5	ND	8.0	7.9	7.9	7.9	ND
Flow (m ³ /month)	—	ND	ND	ND	229 968	303 477	55 213	ND	334 152	305 978	178 754	216 720	ND
Rainbow Trout	Pass	ND	ND	ND	1	1	1	ND	1	1	1	1	ND
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
<i>Daphnia magna</i>	Pass	ND	ND	ND	1	1	1	ND	1	1	1	1	ND
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
Comments:													
Notes: ND: No Deposit NMR: No Measurement Required Pass: ≤50% Mortality Fail: >50% Mortality Highlighted data indicate that a monthly effluent quality standard was exceeded for that month. A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement.													

Metal Mining Effluent Regulations (MMER) 2008 Effluent Compliance

Mine/Mill Name	Joe Mann												
Operator Name	Ressources Campbell Inc.												
Product(s)	Gold-Copper												
Address	P.O. Box 400, Chibougamau, Quebec G8P 2X8												
Effluent Discharge Point	Polishing Pond Effluent – Point 10												
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
As (mg/L)	0.5	0.0016	0.0011	0.0062	0.0023	0.0007	0.0007	0.0011	0.0013	0.0012	0.0010	0.0015	ND
Cu (mg/L)	0.3	0.0053	0.0062	0.0070	0.0063	0.0075	0.0078	0.0103	0.0089	0.0071	0.0066	0.0007	ND
CN (mg/L)	1.0	0.0080	NMR	NMR	NMR	NMR	0.0070	NMR	0.0025	0.0025	0.0025	NMR	ND
Pb (mg/L)	0.2	0.0023	0.0015	0.0012	0.0008	0.0005	0.0045	0.0017	0.0007	0.0009	0.0003	0.0003	ND
Ni (mg/L)	0.5	0.0013	0.0025	0.0016	0.0013	0.0013	0.0005	0.0012	0.0008	0.0006	0.0008	0.0010	ND
Zn (mg/L)	0.5	0.0053	0.0046	0.0093	0.0021	0.0035	0.0005	0.0056	0.0074	0.0029	0.0030	0.0040	ND
TSS (mg/L)	15	1.67	7.50	2.90	1.50	2.13	5.70	1.75	2.88	3.70	2.13	3.00	ND
Ra-226 (Bq/L)	0.37	0.0010	NMR	NMR	NMR	NMR	0.0040	NMR	0.0010	0.0020	0.0020	NMR	ND
pH low	≥6.0	8.0	7.8	8.0	7.9	8.0	8.1	8.1	8.1	8.0	7.8	7.7	ND
pH high	≤9.5	8.2	8.0	8.0	8.1	8.2	8.2	8.2	8.2	8.1	8.0	7.7	ND
Flow (m ³ /month)	—	136 075	145 653	120 392	124 178	172 879	150 762	165 726	98 402	65 844	2 813	102	ND
Rainbow Trout	Pass	1	NMR	NMR	NMR	NMR	1	NMR	1	NMR	1	NMR	ND
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
<i>Daphnia magna</i>	Pass	1	NMR	NMR	NMR	NMR	1	NMR	1	NMR	1	NMR	ND
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
Comments:													
Notes: ND: No Deposit NMR: No Measurement Required Pass: ≤50% Mortality Fail: >50% Mortality Highlighted data indicate that a monthly effluent quality standard was exceeded for that month. A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement.													

Metal Mining Effluent Regulations (MMER) 2008 Effluent Compliance

Mine/Mill Name	Kemess South Mine												
Operator Name	Northgate Minerals Corporation												
Product(s)	Gold-Copper												
Address	P.O. Box 3519, Smithers, British Columbia V0J 2N0												
Effluent Discharge Point	KS.WQ14 – Runoff												
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.
As (mg/L)	0.5	0.0003	0.0003	0.0003	0.0015	0.0012	0.0011	0.0007	0.0005	0.0005	0.0003	0.0004	0.0002
Cu (mg/L)	0.3	0.0012	0.0025	0.0012	0.0016	0.0021	0.0045	0.0021	0.0020	0.0012	0.0022	0.0016	0.0018
CN (mg/L)	1.0	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR
Pb (mg/L)	0.2	0.0000	0.0001	0.0000	0.0002	0.0001	0.0004	0.0001	0.0000	0.0000	0.0000	0.0001	0.0000
Ni (mg/L)	0.5	0.0003	0.0003	0.0003	0.0005	0.0003	0.0006	0.0003	0.0003	0.0003	0.0003	0.0003	0.0003
Zn (mg/L)	0.5	0.0005	0.0013	0.0005	0.0028	0.0005	0.0030	0.0022	0.0017	0.0059	0.0008	0.0010	0.0012
TSS (mg/L)	15	1.53	1.48	0.60	4.20	14.35	6.02	3.52	2.04	1.66	1.28	3.08	1.52
Ra-226 (Bq/L)	0.37	NMR	0.0025	NMR	0.0200	NMR	0.0050	NMR	0.0050	NMR	NMR	0.0025	NMR
pH low	≥6.0	7.8	7.8	8.1	7.8	8.0	8.1	8.2	8.0	8.3	7.8	8.1	8.0
pH high	≤9.5	8.1	8.2	8.2	8.2	8.1	8.3	8.4	8.4	8.3	8.3	8.3	8.2
Flow (m ³ /month)	—	16 415	8 323	6 553	25 050	434 915	201 162	72 457	35 749	28 404	14 396	8 610	3 038
Rainbow Trout	Pass	NMR	1	NMR	NMR	2	1	NMR	1	NMR	NMR	1	NMR
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
<i>Daphnia magna</i>	Pass	NMR	1	NMR	NMR	2	1	NMR	1	NMR	NMR	1	NMR
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
Comments:													
Notes: ND: No Deposit NMR: No Measurement Required Pass: ≤50% Mortality Fail: >50% Mortality Highlighted data indicate that a monthly effluent quality standard was exceeded for that month. A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement.													

Metal Mining Effluent Regulations (MMER) 2008 Effluent Compliance

Mine/Mill Name	Kemess South Mine												
Operator Name	Northgate Minerals Corporation												
Product(s)	Gold-Copper												
Address	P.O. Box 3519, Smithers, British Columbia V0J 2N0												
Effluent Discharge Point	KS.WQBXL - Sedimentation Pond Decant												
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
As (mg/L)	0.5	ND	ND	ND	ND	0.0003	0.0003	0.0004	0.0005	ND	ND	ND	ND
Cu (mg/L)	0.3	ND	ND	ND	ND	0.0025	0.0024	0.0018	0.0014	ND	ND	ND	ND
CN (mg/L)	1.0	ND	ND	ND	ND	NMR	NMR	NMR	NMR	ND	ND	ND	ND
Pb (mg/L)	0.2	ND	ND	ND	ND	0.0001	0.0001	0.0000	0.0000	ND	ND	ND	ND
Ni (mg/L)	0.5	ND	ND	ND	ND	0.0003	0.0003	0.0003	0.0003	ND	ND	ND	ND
Zn (mg/L)	0.5	ND	ND	ND	ND	0.0026	0.0021	0.0015	0.0005	ND	ND	ND	ND
TSS (mg/L)	15	ND	ND	ND	ND	6.60	2.86	1.46	11.90	ND	ND	ND	ND
Ra-226 (Bq/L)	0.37	ND	ND	ND	ND	0.0060	0.0025	0.0025	0.0025	ND	ND	ND	ND
pH low	≥6.0	ND	ND	ND	ND	7.3	8.1	8.2	8.4	ND	ND	ND	ND
pH high	≤9.5	ND	ND	ND	ND	8.1	8.2	8.4	8.4	ND	ND	ND	ND
Flow (m ³ /month)	—	ND	ND	ND	ND	7 752	1 200	195	5	ND	ND	ND	ND
Rainbow Trout	Pass	ND	ND	ND	ND	1	1	1	1	ND	ND	ND	ND
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
<i>Daphnia magna</i>	Pass	ND	ND	ND	ND	1	1	1	1	ND	ND	ND	ND
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
Comments:													
Notes: ND: No Deposit NMR: No Measurement Required Pass: ≤50% Mortality Fail: >50% Mortality Highlighted data indicate that a monthly effluent quality standard was exceeded for that month. A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement.													

Metal Mining Effluent Regulations (MMER) 2008 Effluent Compliance

Mine/Mill Name	Key Lake Operation												
Operator Name	Cameco Corporation												
Product(s)	Uranium												
Address	2121-11th Street West, Saskatoon, Saskatchewan S7M 1J3												
Effluent Discharge Point	Station 1.2 – Dewatering Discharge to Horsefly Lake												
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.
As (mg/L)	0.5	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001
Cu (mg/L)	0.3	0.0001	0.0001	0.0002	0.0001	0.0001	0.0001	0.0002	0.0001	0.0001	0.0001	0.0001	0.0001
CN (mg/L)	1.0	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR
Pb (mg/L)	0.2	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001
Ni (mg/L)	0.5	0.0093	0.0095	0.0072	0.0128	0.0118	0.0109	0.0157	0.0165	0.0174	0.0165	0.0193	0.0170
Zn (mg/L)	0.5	0.0007	0.0007	0.0008	0.0009	0.0021	0.0027	0.0035	0.0033	0.0041	0.0049	0.0033	0.0037
TSS (mg/L)	15	0.70	0.25	0.12	0.13	0.18	0.42	0.18	0.11	0.18	0.13	0.10	0.10
Ra-226 (Bq/L)	0.37	0.0048	0.0025	0.0030	0.0025	0.0025	0.0039	0.0037	0.0025	0.0025	0.0025	0.0034	0.0025
pH low	≥6.0	6.6	6.7	6.8	6.8	7.0	6.7	6.9	6.7	6.7	6.4	6.5	6.4
pH high	≤9.5	7.1	6.9	7.0	7.1	7.2	7.7	7.0	7.1	7.0	7.1	7.1	6.9
Flow (m ³ /month)	—	469 052	238 178	400 126	516 370	536 545	287 311	244 066	402 337	397 048	385 172	342 982	438 167
Rainbow Trout	Pass	NMR	NMR	1	NMR	NMR	-	2	3	3	1	1	1
Acute Lethality Test	Fail	-	-	-	-	-	1	-	1	-	-	-	-
<i>Daphnia magna</i>	Pass	NMR	NMR	1	NMR	NMR	1	2	4	3	1	1	1
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
Comments:													
Notes: ND: No Deposit NMR: No Measurement Required Pass: ≤50% Mortality Fail: >50% Mortality Highlighted data indicate that a monthly effluent quality standard was exceeded for that month. A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement.													

Metal Mining Effluent Regulations (MMER) 2008 Effluent Compliance

Mine/Mill Name	Key Lake Operation												
Operator Name	Cameco Corporation												
Product(s)	Uranium												
Address	2121-11th Street West, Saskatoon, Saskatchewan S7M 1J3												
Effluent Discharge Point	Station 1.4 – Mill Effluent to Wolf Lake												
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
As (mg/L)	0.5	0.0222	0.0180	0.0175	0.0122	0.0158	0.0169	0.0347	0.0358	0.0288	0.0228	0.0125	0.0178
Cu (mg/L)	0.3	0.0022	0.0033	0.0025	0.0031	0.0045	0.0046	0.0037	0.0115	0.0125	0.0248	0.0448	0.0214
CN (mg/L)	1.0	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR
Pb (mg/L)	0.2	0.0003	0.0002	0.0008	0.0014	0.0012	0.0010	0.0004	0.0008	0.0010	0.0008	0.0022	0.0016
Ni (mg/L)	0.5	0.1570	0.1473	0.0453	0.0976	0.1163	0.1054	0.0857	0.1193	0.1265	0.2173	0.2643	0.2154
Zn (mg/L)	0.5	0.0048	0.0023	0.0028	0.0040	0.0073	0.0066	0.0070	0.0075	0.0108	0.0073	0.0140	0.0184
TSS (mg/L)	15	6.80	3.50	1.25	7.18	3.75	3.54	5.00	5.53	7.00	5.10	5.95	5.94
Ra-226 (Bq/L)	0.37	0.0260	0.0600	0.0400	0.0360	0.0225	0.0540	0.0500	0.0525	0.0627	0.0245	0.0575	0.0440
pH low	≥6.0	6.6	6.3	6.1	6.4	6.9	6.5	6.0	6.5	6.3	6.0	6.2	6.0
pH high	≤9.5	7.0	7.2	6.9	7.0	7.1	7.0	6.9	6.6	7.1	6.5	6.5	6.7
Flow (m ³ /month)	—	78 455	96 905	105 685	135 670	112 193	100 985	93 150	85 765	102 670	123 480	99 118	163 051
Rainbow Trout	Pass	NMR	NMR	1	NMR	NMR	1	NMR	NMR	1	NMR	NMR	1
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
<i>Daphnia magna</i>	Pass	NMR	NMR	1	NMR	NMR	1	NMR	NMR	1	NMR	NMR	1
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
Comments:													
Notes: ND: No Deposit NMR: No Measurement Required Pass: ≤50% Mortality Fail: >50% Mortality Highlighted data indicate that a monthly effluent quality standard was exceeded for that month. A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement.													

Metal Mining Effluent Regulations (MMER) 2008 Effluent Compliance

Mine/Mill Name	Kidd Metallurgical Division												
Operator Name	Xstrata Canada Corporation												
Product(s)	Zinc-Copper-Silver-Lead-Cadmium-Indium-Cobalt-Selenium-Palladium-Platinum												
Address	10050 Highway 101 East, P.O. Bag 2002, Hoyle Township, Timmins, Ontario P4N 7K1												
Effluent Discharge Point	Final Effluent Monitoring Point												
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.
As (mg/L)	0.5	0.0003	0.0005	0.0004	0.0006	0.0018	0.0007	0.0012	0.0013	0.0014	0.0007	0.0003	0.0003
Cu (mg/L)	0.3	0.0085	0.0063	0.0078	0.0055	0.0067	0.0070	0.0053	0.0055	0.0060	0.0040	0.0043	0.0070
CN (mg/L)	1.0	NMR	NMR	NMR	NMR	0.0010	NMR	NMR	NMR	NMR	NMR	NMR	NMR
Pb (mg/L)	0.2	0.0010	0.0010	0.0010	0.0010	0.0009	0.0010	0.0010	0.0010	0.0010	0.0010	0.0010	0.0010
Ni (mg/L)	0.5	0.0025	0.0023	0.0022	0.0013	0.0044	0.0014	0.0010	0.0010	0.0014	0.0013	0.0013	0.0016
Zn (mg/L)	0.5	0.0478	0.0675	0.0934	0.0445	0.0425	0.0312	0.0310	0.0198	0.0284	0.0258	0.0375	0.0558
TSS (mg/L)	15	1.50	1.75	1.40	1.75	1.33	1.20	2.75	1.00	1.00	1.50	1.00	1.00
Ra-226 (Bq/L)	0.37	NMR	0.0050	NMR	NMR	0.0100	NMR	0.0100	0.0050	0.0100	NMR	0.0050	NMR
pH low	≥6.0	7.4	7.3	7.3	6.8	7.9	6.8	7.1	8.0	7.8	8.0	7.2	7.2
pH high	≤9.5	8.0	8.0	8.1	7.7	8.6	9.5	8.8	8.3	8.7	8.3	8.6	7.9
Flow (m ³ /month)	—	1 676 180	1 050 740	1 220 530	4 872 000	2 215 730	1 740 620	1 942 750	1 475 201	869 220	852 840	1 543 400	1 257 230
Rainbow Trout	Pass	1	2	1	1	2	2	1	1	1	1	1	1
Acute Lethality Test	Fail	-	-	-	-	1	-	-	-	-	-	-	-
<i>Daphnia magna</i>	Pass	1	2	1	1	3	2	1	1	1	1	1	1
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
Comments:													
Notes: ND: No Deposit NMR: No Measurement Required Pass: ≤50% Mortality Fail: >50% Mortality Highlighted data indicate that a monthly effluent quality standard was exceeded for that month. A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement.													

Metal Mining Effluent Regulations (MMER) 2008 Effluent Compliance

Mine/Mill Name	Kidd Mining Division												
Operator Name	Xstrata Canada Corporation												
Product(s)	Zinc-Copper-Silver-Lead-Cadmium-Indium-Cobalt-Selenium-Palladium-Platinum												
Address	Highway 655 North, P.O. Bag 2002, Timmins, Ontario P4N 7K1												
Effluent Discharge Point	Treatment Pond Final Effluent												
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
As (mg/L)	0.5	0.0003	0.0003	0.0003	0.0003	0.0003	0.0003	0.0003	-	0.0003	0.0011	0.0003	0.0003
Cu (mg/L)	0.3	0.0148	0.0110	0.0110	0.0084	0.0103	0.0070	0.0073	-	0.0060	0.0120	0.0075	0.0112
CN (mg/L)	1.0	NMR	NMR	NMR	NMR	NMR	NMR	NMR	-	NMR	NMR	NMR	NMR
Pb (mg/L)	0.2	0.0010	0.0010	0.0010	0.0010	0.0013	0.0010	0.0010	-	0.0010	0.0006	0.0018	0.0012
Ni (mg/L)	0.5	0.0013	0.0013	0.0010	0.0010	0.0010	0.0010	0.0010	-	0.0010	0.0018	0.0015	0.0012
Zn (mg/L)	0.5	0.2338	0.2135	0.1210	0.1262	0.1030	0.0293	0.0283	-	0.0440	0.0786	0.1370	0.1878
TSS (mg/L)	15	0.63	0.75	0.50	1.20	0.75	0.63	0.75	-	0.50	0.80	0.50	0.50
Ra-226 (Bq/L)	0.37	0.0100	NMR	NMR	0.0050	NMR	NMR	0.0050	-	NMR	0.0050	NMR	NMR
pH low	≥6.0	7.0	7.0	7.1	6.7	7.2	7.2	7.6	-	7.5	6.6	6.9	6.9
pH high	≤9.5	8.1	7.4	7.1	8.7	7.6	7.8	7.7	-	7.5	7.0	7.2	7.3
Flow (m ³ /month)	—	307 470	275 120	78 050	2 090 040	996 010	451 140	559 530	27 820	15 048	225 440	240 570	176 000
Rainbow Trout	Pass	1	NMR	NMR	1	NMR	NMR	1	NMR	NMR	1	NMR	NMR
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
<i>Daphnia magna</i>	Pass	1	NMR	NMR	1	NMR	NMR	1	NMR	NMR	1	NMR	NMR
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
Comments:	Only flow measurement was provided in August since the mine reported discharge of effluent during only one day.												
Notes: ND: No Deposit	NMR: No Measurement Required												
Highlighted data indicate that a monthly effluent quality standard was exceeded for that month.	Pass: ≤50% Mortality												
A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement.	Fail: >50% Mortality												

Metal Mining Effluent Regulations (MMER) 2008 Effluent Compliance

Mine/Mill Name	Kiena (Mine)												
Operator Name	Mines d'Or Wesdome Ltée												
Product(s)	Gold												
Address	950 Kienawisik Road, P.O. Box 268, Val-d'Or, Quebec J9P 4P3												
Effluent Discharge Point	Final Effluent												
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.
As (mg/L)	0.5	ND	ND	ND	0.0010	0.0003	0.0005	0.0003	0.0008	0.0005	0.0007	0.0038	ND
Cu (mg/L)	0.3	ND	ND	ND	0.0177	0.0129	0.0154	0.0144	0.0123	0.0074	0.0073	0.0533	ND
CN (mg/L)	1.0	ND	ND	ND	0.0320	0.0108	0.0125	0.0140	0.0233	0.0192	0.0093	0.0135	ND
Pb (mg/L)	0.2	ND	ND	ND	0.0012	0.0005	0.0005	0.0018	0.0004	0.0003	0.0003	0.0003	ND
Ni (mg/L)	0.5	ND	ND	ND	0.0098	0.0093	0.0129	0.0003	0.0814	0.0658	0.0462	0.0501	ND
Zn (mg/L)	0.5	ND	ND	ND	0.0060	0.0014	0.0005	0.0005	0.0051	0.0353	0.0005	0.0028	ND
TSS (mg/L)	15	ND	ND	ND	6.00	8.25	2.75	3.00	2.25	1.10	1.88	6.25	ND
Ra-226 (Bq/L)	0.37	ND	ND	ND	0.0010	0.0020	0.0015	0.0010	0.0030	0.0030	0.0013	0.0080	ND
pH low	≥6.0	ND	ND	ND	7.0	7.3	7.6	7.5	7.4	7.6	7.4	7.3	ND
pH high	≤9.5	ND	ND	ND	7.2	7.8	7.6	7.5	8.2	8.2	8.1	7.7	ND
Flow (m ³ /month)	—	ND	ND	ND	88 158	93 012	22 121	18 526	214 503	160 141	143 319	31 746	ND
Rainbow Trout	Pass	ND	ND	ND	1	1	1	1	1	1	2	2	ND
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
<i>Daphnia magna</i>	Pass	ND	ND	ND	1	1	1	1	1	1	2	2	ND
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
Comments:													
Notes: ND: No Deposit NMR: No Measurement Required Pass: ≤50% Mortality Fail: >50% Mortality Highlighted data indicate that a monthly effluent quality standard was exceeded for that month. A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement.													

Metal Mining Effluent Regulations (MMER) 2008 Effluent Compliance

Mine/Mill Name	Konuto Lake Mine												
Operator Name	Hudson Bay Mining and Smelting Co. Ltd.												
Product(s)	Copper-Zinc-Gold-Silver-Selenium-Tellurium												
Address	P.O. Box 1500, Flin Flon, Manitoba R8A 1N9												
Effluent Discharge Point	Surface Sump Discharge												
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
As (mg/L)	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Cu (mg/L)	0.3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
CN (mg/L)	1.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Pb (mg/L)	0.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ni (mg/L)	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Zn (mg/L)	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
TSS (mg/L)	25	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ra-226 (Bq/L)	0.37	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
pH low	≥6.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
pH high	≤9.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Flow (m ³ /month)	—	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Rainbow Trout	Pass	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
<i>Daphnia magna</i>	Pass	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
Comments:	Extended TA was granted for TSS limit of 25 mg/L. TA expired on December 6, 2008.												
Notes:	ND: No Deposit NMR: No Measurement Required Highlighted data indicate that a monthly effluent quality standard was exceeded for that month. A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement.												
	Pass: ≤50% Mortality Fail: >50% Mortality												

Metal Mining Effluent Regulations (MMER) 2008 Effluent Compliance

Mine/Mill Name	Lac des Iles Mine												
Operator Name	North American Palladium Ltd.												
Product(s)	Palladium-Platinum-Gold-Copper-Nickel-Cobalt												
Address	P.O. Box 10547, Thunder Bay, Ontario P7B 6T9												
Effluent Discharge Point	FDP 1												
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.
As (mg/L)	0.5	ND	ND	ND	ND	0.0027	0.0025	0.0028	0.0029	0.0026	0.0024	ND	ND
Cu (mg/L)	0.3	ND	ND	ND	ND	0.0013	0.0016	0.0011	0.0013	0.0014	0.0010	ND	ND
CN (mg/L)	1.0	ND	ND	ND	ND	NMR	NMR	NMR	NMR	NMR	NMR	ND	ND
Pb (mg/L)	0.2	ND	ND	ND	ND	0.0005	0.0005	0.0005	0.0003	0.0001	0.0001	ND	ND
Ni (mg/L)	0.5	ND	ND	ND	ND	0.0120	0.0148	0.0164	0.0137	0.0113	0.0150	ND	ND
Zn (mg/L)	0.5	ND	ND	ND	ND	0.0028	0.0049	0.0015	0.0007	0.0034	0.0034	ND	ND
TSS (mg/L)	15	ND	ND	ND	ND	4.33	1.14	0.45	0.83	2.31	4.00	ND	ND
Ra-226 (Bq/L)	0.37	ND	ND	ND	ND	0.0033	0.0013	0.0010	0.0017	NMR	0.0050	ND	ND
pH low	≥6.0	ND	ND	ND	ND	7.2	7.6	7.5	7.8	7.8	7.8	ND	ND
pH high	≤9.5	ND	ND	ND	ND	7.8	7.8	7.8	7.9	7.9	7.9	ND	ND
Flow (m ³ /month)	—	ND	ND	ND	ND	92 366	111 416	119 472	112 858	125 493	113 221	ND	ND
Rainbow Trout	Pass	ND	ND	ND	ND	1	3	1	1	1	1	ND	ND
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
<i>Daphnia magna</i>	Pass	ND	ND	ND	ND	1	3	1	1	1	1	ND	ND
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
Comments:													
Notes: ND: No Deposit NMR: No Measurement Required Pass: ≤50% Mortality Fail: >50% Mortality Highlighted data indicate that a monthly effluent quality standard was exceeded for that month. A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement.													

Metal Mining Effluent Regulations (MMER) 2008 Effluent Compliance

Mine/Mill Name	Lac Herbin (Mine)												
Operator Name	Alexis Minerals Corporation												
Product(s)	Gold												
Address	1900 Brador Road, Val-d'Or, Quebec J9P 7A9												
Effluent Discharge Point	Final Effluent No. 1												
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
As (mg/L)	0.5	-	0.0187	0.0011	0.0028	0.0021	0.0021	0.0020	0.0020	0.0018	ND	ND	ND
Cu (mg/L)	0.3	-	0.0065	0.0054	0.0021	0.0088	0.0068	0.0070	0.0100	0.0049	ND	ND	ND
CN (mg/L)	1.0	-	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	ND	ND	ND
Pb (mg/L)	0.2	-	0.0050	0.0200	0.0005	0.0033	0.0017	0.0021	0.0020	0.0022	ND	ND	ND
Ni (mg/L)	0.5	-	0.0050	0.0050	0.0005	0.0040	0.0032	0.0022	0.0013	0.0015	ND	ND	ND
Zn (mg/L)	0.5	-	0.0200	0.0500	0.0080	0.0188	0.0168	0.0148	0.0225	0.0086	ND	ND	ND
TSS (mg/L)	15	-	10.67	17.75	17.00	21.00	11.00	13.40	5.25	4.20	ND	ND	ND
Ra-226 (Bq/L)	0.37	-	-	-	0.0017	0.0037	0.0030	0.0032	0.0020	0.0018	ND	ND	ND
pH low	≥6.0	-	6.9	6.8	7.3	6.7	6.6	6.7	6.5	6.8	ND	ND	ND
pH high	≤9.5	-	7.6	7.5	7.9	7.2	8.0	7.4	7.9	7.4	ND	ND	ND
Flow (m ³ /month)	—	-	7 413	23 254	19 267	19 267	18 227	28 142	19 706	25 516	ND	ND	ND
Rainbow Trout	Pass	-	-	3	1	1	1	1	1	1	ND	ND	ND
Acute Lethality Test	Fail	-	2	1	-	-	-	-	-	-	-	-	-
<i>Daphnia magna</i>	Pass	-	1	4	1	1	1	1	1	1	ND	ND	ND
Monitoring Test	Fail	-	1	-	-	-	-	-	-	-	-	-	-
Comments:	The mine became subject to the MMER on February 20, 2008. No radium 226 test result was provided for February and March.												
Notes:	ND: No Deposit NMR: No Measurement Required Pass: ≤50% Mortality Fail: >50% Mortality Highlighted data indicate that a monthly effluent quality standard was exceeded for that month. A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement.												

Metal Mining Effluent Regulations (MMER) 2008 Effluent Compliance

Mine/Mill Name	Lac Herbin (Mine)												
Operator Name	Alexis Minerals Corporation												
Product(s)	Gold												
Address	1900 Brador Road, Val-d'Or, Quebec J9P 7A9												
Effluent Discharge Point	Final Effluent No. 2												
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.
As (mg/L)	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0016	0.0049	0.0009
Cu (mg/L)	0.3	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0029	0.0036	0.0028
CN (mg/L)	1.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	NMR	NMR	NMR
Pb (mg/L)	0.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0033	0.0012	0.0008
Ni (mg/L)	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0013	0.0020	0.0023
Zn (mg/L)	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0163	0.0180	0.0182
TSS (mg/L)	15	ND	ND	ND	ND	ND	ND	ND	ND	ND	4.13	6.75	8.20
Ra-226 (Bq/L)	0.37	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0113	0.0063	0.0042
pH low	≥6.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	6.6	6.9	6.3
pH high	≤9.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	7.2	7.4	7.7
Flow (m ³ /month)	—	ND	ND	ND	ND	ND	ND	ND	ND	ND	25 772	27 158	21 602
Rainbow Trout	Pass	ND	ND	ND	ND	ND	ND	ND	ND	ND	1	1	1
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
<i>Daphnia magna</i>	Pass	ND	ND	ND	ND	ND	ND	ND	ND	ND	1	1	1
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
Comments:	The mine became subject to the MMER on February 20, 2008.												
Notes:	ND: No Deposit NMR: No Measurement Required Pass: ≤50% Mortality Fail: >50% Mortality Highlighted data indicate that a monthly effluent quality standard was exceeded for that month. A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement.												

Metal Mining Effluent Regulations (MMER) 2008 Effluent Compliance

Mine/Mill Name	Langlois (Mine)												
Operator Name	Ressources Breakwater Ltée												
Product(s)	Zinc-Copper-Gold-Silver												
Address	P.O. Box 6000, Route 1000, Km. 42, Lebel-sur-Quévillon, Quebec J0Y 1X0												
Effluent Discharge Point	Main Final Effluent												
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
As (mg/L)	0.5	0.0022	ND	0.0080	0.0015	0.0015	0.0145	0.0019	0.0021	0.0021	0.0023	0.0059	0.0018
Cu (mg/L)	0.3	0.0166	ND	0.0240	0.0074	0.0119	0.0100	0.0092	0.0113	0.0098	0.0199	0.0453	0.0355
CN (mg/L)	1.0	NMR	ND	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR
Pb (mg/L)	0.2	0.0029	ND	0.0055	0.0028	0.0080	0.0225	0.0015	0.0030	0.0426	0.0042	0.0012	0.0033
Ni (mg/L)	0.5	0.0008	ND	0.0035	0.0010	0.0004	0.0013	0.0013	0.0011	0.0009	0.0003	0.0074	0.0011
Zn (mg/L)	0.5	0.2320	ND	0.1195	0.0416	0.0768	0.0788	0.1650	0.2648	0.2763	0.3158	0.3448	0.4094
TSS (mg/L)	15	0.96	ND	2.00	3.70	5.25	3.63	2.44	0.88	2.00	2.90	1.63	1.60
Ra-226 (Bq/L)	0.37	0.0010	ND	0.0010	0.0046	0.0018	0.0035	0.0031	0.0018	0.0028	0.0082	0.0035	0.0013
pH low	≥6.0	6.9	ND	7.0	7.0	6.3	7.1	6.8	6.8	6.7	5.8	6.1	7.5
pH high	≤9.5	7.5	ND	7.3	7.7	7.5	7.3	7.3	7.1	7.1	6.7	7.0	8.1
Flow (m ³ /month)	—	188 380	ND	86 352	183 060	183 120	146 160	269 760	476 160	213 120	151 200	159 360	187 200
Rainbow Trout	Pass	1	ND	1	1	1	1	1	1	1	1	1	1
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
<i>Daphnia magna</i>	Pass	1	ND	1	1	1	1	1	1	1	-	1	1
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	1	-	-
Comments:													
Notes: ND: No Deposit NMR: No Measurement Required Pass: ≤50% Mortality Fail: >50% Mortality Highlighted data indicate that a monthly effluent quality standard was exceeded for that month. A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement.													

Metal Mining Effluent Regulations (MMER) 2008 Effluent Compliance

Mine/Mill Name	Lapa (Project)												
Operator Name	Mines Agnico-Eagle Ltée												
Product(s)	Gold												
Address	299 St. Paul Boulevard North, Rivière-Éva, Quebec J0Y 2H0												
Effluent Discharge Point	Final Effluent – Sedimentation Pond												
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.
As (mg/L)	0.5	ND	0.0042	ND	0.0044	0.0051	ND	0.0080	0.0130	ND	0.0222	ND	ND
Cu (mg/L)	0.3	ND	0.0015	ND	0.0016	0.0020	ND	0.0045	0.1015	ND	0.0071	ND	ND
CN (mg/L)	1.0	ND	NMR	ND	NMR	NMR	ND	NMR	NMR	ND	NMR	ND	ND
Pb (mg/L)	0.2	ND	0.0013	ND	0.0005	0.0005	ND	0.0015	0.0013	ND	0.0004	ND	ND
Ni (mg/L)	0.5	ND	0.0177	ND	0.0210	0.0180	ND	0.0150	0.0175	ND	0.0236	ND	ND
Zn (mg/L)	0.5	ND	0.0140	ND	0.0088	0.0060	ND	0.0200	0.0040	ND	0.0095	ND	ND
TSS (mg/L)	15	ND	12.33	ND	12.25	8.00	ND	10.00	14.00	ND	8.00	ND	ND
Ra-226 (Bq/L)	0.37	ND	0.0130	ND	0.0050	NMR	ND	0.0110	NMR	ND	0.0170	ND	ND
pH low	≥6.0	ND	7.4	ND	7.7	7.7	ND	7.5	7.8	ND	7.5	ND	ND
pH high	≤9.5	ND	7.7	ND	8.2	7.7	ND	7.6	7.8	ND	7.6	ND	ND
Flow (m ³ /month)	—	ND	7 200	ND	15 400	17 600	ND	12 800	19 200	ND	14 400	ND	ND
Rainbow Trout	Pass	ND	-	ND	3	1	ND	1	1	ND	1	ND	ND
Acute Lethality Test	Fail	-	1	-	-	-	-	-	-	-	-	-	-
<i>Daphnia magna</i>	Pass	ND	1	ND	3	1	ND	1	1	ND	1	ND	ND
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
Comments:													
Notes: ND: No Deposit NMR: No Measurement Required Pass: ≤50% Mortality Fail: >50% Mortality Highlighted data indicate that a monthly effluent quality standard was exceeded for that month. A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement.													

Metal Mining Effluent Regulations (MMER) 2008 Effluent Compliance

Mine/Mill Name	Laronde (Mine)												
Operator Name	Mines Agnico-Eagle Ltée												
Product(s)	Gold-Silver-Copper-Zinc												
Address	20 Road 395, Cadillac, Quebec J0Y 1C0												
Effluent Discharge Point	Final Effluent 3A												
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
As (mg/L)	0.5	0.0028	0.0032	0.0024	0.0027	0.0018	0.0014	0.0021	0.0021	0.0032	0.0024	0.0054	0.0031
Cu (mg/L)	0.3	0.0336	0.0235	0.0245	0.0433	0.0340	0.0397	0.0295	0.0180	0.0188	0.0186	0.0255	0.0283
CN (mg/L)	1.0	0.0748	0.0510	0.1805	0.1676	0.0263	0.0608	0.0226	0.0343	0.0294	0.0100	0.0465	0.0852
Pb (mg/L)	0.2	0.0005	0.0005	0.0040	0.0007	0.0018	0.0016	0.0006	0.0005	0.0008	0.0071	0.0003	0.0003
Ni (mg/L)	0.5	0.0057	0.0031	0.0057	0.0054	0.0045	0.0037	0.0029	0.0028	0.0025	0.0038	0.0033	0.0042
Zn (mg/L)	0.5	0.0586	0.0415	0.0410	0.0534	0.0478	0.0448	0.0294	0.0128	0.0156	0.0255	0.0390	0.0622
TSS (mg/L)	15	6.04	9.00	9.00	13.00	17.75	12.75	10.10	12.25	7.40	5.63	8.75	8.00
Ra-226 (Bq/L)	0.37	0.0040	NMR	NMR	0.0090	NMR	NMR	0.0080	NMR	NMR	0.0030	NMR	NMR
pH low	≥6.0	7.0	6.8	7.1	7.1	6.9	7.2	7.2	7.1	7.1	7.2	7.2	7.2
pH high	≤9.5	8.2	7.6	7.3	7.4	7.2	7.2	7.2	7.4	7.5	7.4	7.6	7.7
Flow (m ³ /month)	—	104 527	106 055	104 950	122 402	233 951	203 557	264 947	277 245	264 914	276 767	221 570	112 263
Rainbow Trout	Pass	1	1	1	1	1	1	1	1	1	1	1	1
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
<i>Daphnia magna</i>	Pass	1	1	1	1	1	1	1	1	1	1	1	1
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
Comments:													
Notes: ND: No Deposit NMR: No Measurement Required Pass: ≤50% Mortality Fail: >50% Mortality Highlighted data indicate that a monthly effluent quality standard was exceeded for that month. A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement.													

Metal Mining Effluent Regulations (MMER) 2008 Effluent Compliance

Mine/Mill Name	Lockerby Mine												
Operator Name	First Nickel Inc.												
Product(s)	Copper-Nickel-Cobalt												
Address	NI-2, Lot 2, Concession 5, PCL 454, SWS Denison Township, Whitefish, Ontario P0M 3E0												
Effluent Discharge Point	Number 4 Pond Effluent												
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.
As (mg/L)	0.5	0.0010	0.0011	0.0012	0.0010	0.0017	0.0012	0.0011	0.0013	0.0018	0.0026	0.0015	0.0008
Cu (mg/L)	0.3	0.0091	0.0097	0.0103	0.0089	0.0070	0.0043	0.0043	0.0062	0.0074	0.0053	0.0032	0.0070
CN (mg/L)	1.0	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR
Pb (mg/L)	0.2	0.0005	0.0007	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005
Ni (mg/L)	0.5	0.2742	0.1622	0.3252	0.2798	0.2710	0.1425	0.0485	0.0756	0.1246	0.0757	0.0695	0.4342
Zn (mg/L)	0.5	0.0044	0.0031	0.0059	0.0075	0.0048	0.0036	0.0108	0.0029	0.0068	0.0030	0.0010	0.0030
TSS (mg/L)	15	0.63	0.33	1.81	0.66	0.46	0.31	0.31	0.52	0.59	2.13	0.73	1.02
Ra-226 (Bq/L)	0.37	NMR	NMR	0.0400	NMR	NMR	0.0600	NMR	NMR	0.0770	NMR	NMR	0.0360
pH low	≥6.0	7.4	7.6	7.5	7.5	7.5	7.0	7.3	7.1	7.2	6.8	7.4	7.3
pH high	≤9.5	7.7	7.8	7.8	7.7	7.5	7.6	7.8	7.6	7.7	7.5	7.5	7.5
Flow (m ³ /month)	—	58 517	46 352	39 988	70 573	50 925	59 747	57 861	56 025	44 551	33 026	24 672	35 407
Rainbow Trout	Pass	NMR	NMR	1	NMR	NMR	1	NMR	NMR	1	NMR	NMR	1
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
<i>Daphnia magna</i>	Pass	NMR	NMR	1	NMR	NMR	1	NMR	NMR	1	NMR	NMR	1
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
Comments:													
Notes: ND: No Deposit NMR: No Measurement Required Pass: ≤50% Mortality Fail: >50% Mortality Highlighted data indicate that a monthly effluent quality standard was exceeded for that month. A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement.													

Metal Mining Effluent Regulations (MMER) 2008 Effluent Compliance

Mine/Mill Name	Lupin Operations												
Operator Name	Zinifex Canada Inc.												
Product(s)	Gold												
Address	401-1113 Jade Court, Thunder Bay Ontario P7B 6M7												
Effluent Discharge Point	Lupin Discharge Syphons SNP 925-10												
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.
As (mg/L)	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Cu (mg/L)	0.3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
CN (mg/L)	1.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Pb (mg/L)	0.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ni (mg/L)	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Zn (mg/L)	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
TSS (mg/L)	15	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ra-226 (Bq/L)	0.37	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
pH low	≥6.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
pH high	≤9.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Flow (m ³ /month)	—	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Rainbow Trout	Pass	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
<i>Daphnia magna</i>	Pass	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
Comments:													
Notes: ND: No Deposit NMR: No Measurement Required Pass: ≤50% Mortality Fail: >50% Mortality Highlighted data indicate that a monthly effluent quality standard was exceeded for that month. A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement.													

Metal Mining Effluent Regulations (MMER) 2008 Effluent Compliance

Mine/Mill Name	Macassa Mine												
Operator Name	Kirkland Lake Gold Inc.												
Product(s)	Gold												
Address	P.O. Box 370, Kirkland Lake, Ontario P2N 3J1												
Effluent Discharge Point	C Dam												
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
As (mg/L)	0.5	0.0005	0.0009	0.0009	0.0005	0.0006	0.0013	0.0009	0.0014	0.0008	0.0009	0.0005	0.0007
Cu (mg/L)	0.3	0.0060	0.0055	0.0055	0.0068	0.0140	0.0335	0.0162	0.0370	0.0130	0.0100	0.0073	0.0094
CN (mg/L)	1.0	0.0025	0.0036	0.0059	0.0057	0.1934	0.1890	0.0141	0.0089	0.0010	0.0005	0.0061	0.0080
Pb (mg/L)	0.2	0.0005	0.0014	0.0014	0.0005	0.0005	0.0011	0.0005	0.0006	0.0005	0.0005	0.0005	0.0005
Ni (mg/L)	0.5	0.0060	0.0063	0.0060	0.0056	0.0055	0.0110	0.0059	0.0093	0.0042	0.0038	0.0050	0.0060
Zn (mg/L)	0.5	0.0084	0.0083	0.0058	0.0114	0.0018	0.0063	0.0040	0.0043	0.0092	0.0041	0.0018	0.0072
TSS (mg/L)	15	1.60	0.50	0.50	0.80	1.13	1.50	1.60	3.63	1.50	1.38	1.13	2.00
Ra-226 (Bq/L)	0.37	NMR	NMR	0.0100	NMR	NMR	0.0050	NMR	NMR	0.0050	NMR	0.0050	NMR
pH low	≥6.0	8.1	8.2	8.2	7.9	7.9	8.0	8.1	8.0	8.1	8.0	8.1	8.0
pH high	≤9.5	8.3	8.3	8.4	8.1	8.1	8.2	8.3	8.3	8.2	8.2	8.4	8.3
Flow (m ³ /month)	—	92 793	79 336	70 727	253 680	432 653	316 824	378 266	376 964	120 215	82 218	95 882	98 708
Rainbow Trout	Pass	1	1	1	1	1	1	1	1	1	1	1	1
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
<i>Daphnia magna</i>	Pass	1	1	1	1	1	1	1	1	1	1	1	1
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
Comments:													
Notes: ND: No Deposit NMR: No Measurement Required Pass: ≤50% Mortality Fail: >50% Mortality Highlighted data indicate that a monthly effluent quality standard was exceeded for that month. A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement.													

Metal Mining Effluent Regulations (MMER) 2008 Effluent Compliance

Mine/Mill Name	Magnacon Mine (part of Eagle River Mill)												
Operator Name	Wesdome Gold Mines Ltd.												
Product(s)	Gold												
Address	93 Mission Road, P.O. Box 1520, Wawa, Ontario P0S 1K0												
Effluent Discharge Point	Magnacon Mine												
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.
As (mg/L)	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Cu (mg/L)	0.3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
CN (mg/L)	1.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Pb (mg/L)	0.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ni (mg/L)	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Zn (mg/L)	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
TSS (mg/L)	15	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ra-226 (Bq/L)	0.37	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
pH low	≥6.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
pH high	≤9.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Flow (m ³ /month)	—	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Rainbow Trout	Pass	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
<i>Daphnia magna</i>	Pass	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
Comments:													
Notes: ND: No Deposit NMR: No Measurement Required Pass: ≤50% Mortality Fail: >50% Mortality Highlighted data indicate that a monthly effluent quality standard was exceeded for that month. A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement.													

Metal Mining Effluent Regulations (MMER) 2008 Effluent Compliance

Mine/Mill Name	Malartic (Mill)												
Operator Name	Ministère des Ressources naturelles et de la Faune du Québec												
Product(s)	Gold												
Address	800 Sainte-Foy Road, Suite 3.00, Québec, Quebec G1S 4X4												
Effluent Discharge Point	Final Effluent E1												
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.
As (mg/L)	0.5	ND	ND	ND	ND	0.0003	ND	0.0004	ND	0.0004	0.0003	0.0098	ND
Cu (mg/L)	0.3	ND	ND	ND	ND	0.0165	ND	0.0117	ND	0.0077	0.0052	0.0082	ND
CN (mg/L)	1.0	ND	ND	ND	ND	0.0080	ND	0.0098	ND	0.0025	0.0106	0.0049	ND
Pb (mg/L)	0.2	ND	ND	ND	ND	0.0036	ND	0.0005	ND	0.0003	0.0003	0.0019	ND
Ni (mg/L)	0.5	ND	ND	ND	ND	0.0022	ND	0.0016	ND	0.0013	0.0016	0.0037	ND
Zn (mg/L)	0.5	ND	ND	ND	ND	0.0250	ND	0.0021	ND	0.0095	0.0050	0.0079	ND
TSS (mg/L)	15	ND	ND	ND	ND	8.00	ND	3.75	ND	6.25	2.25	5.88	ND
Ra-226 (Bq/L)	0.37	ND	ND	ND	ND	0.0010	ND	0.0038	ND	0.0015	0.0045	0.0030	ND
pH low	≥6.0	ND	ND	ND	ND	8.0	ND	7.6	ND	7.7	7.5	7.1	ND
pH high	≤9.5	ND	ND	ND	ND	8.0	ND	8.8	ND	7.8	7.8	7.7	ND
Flow (m ³ /month)	—	ND	ND	ND	ND	297 089	ND	959 121	ND	310 886	791 812	775 822	ND
Rainbow Trout	Pass	ND	ND	ND	ND	1	ND	1	ND	-	-	1	ND
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
<i>Daphnia magna</i>	Pass	ND	ND	ND	ND	1	ND	1	ND	-	-	1	ND
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
Comments:	No toxicity test results were provided for September and October.												
Notes:	ND: No Deposit NMR: No Measurement Required Highlighted data indicate that a monthly effluent quality standard was exceeded for that month. A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement.												

Pass: ≤50% Mortality
Fail: >50% Mortality

Metal Mining Effluent Regulations (MMER) 2008 Effluent Compliance

Mine/Mill Name	Matagami Mine (Xstrata Zinc Canada Division)												
Operator Name	Xstrata Canada Corporation												
Product(s)	Zinc-Copper												
Address	500 Industriel Boulevard, Matagami, Quebec J0Y 2A0												
Effluent Discharge Point	Watson Lake Discharge												
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
As (mg/L)	0.5	0.0010	0.0014	0.0021	0.0005	0.0008	0.0003	0.0013	0.0013	0.0009	0.0009	0.0007	0.0018
Cu (mg/L)	0.3	0.0036	0.0040	0.0143	0.0072	0.0064	0.0031	0.0058	0.0058	0.0061	0.0042	0.0020	0.0012
CN (mg/L)	1.0	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR
Pb (mg/L)	0.2	0.0030	0.0012	0.0005	0.0012	0.0033	0.0146	0.0019	0.0010	0.0003	0.0028	0.0003	0.0073
Ni (mg/L)	0.5	0.0021	0.0017	0.0012	0.0020	0.0020	0.0013	0.0006	0.0006	0.0011	0.0015	0.0008	0.0021
Zn (mg/L)	0.5	0.6184	0.1865	0.0113	0.1449	0.1155	0.0165	0.0576	0.0183	0.0284	0.0966	0.0143	0.0015
TSS (mg/L)	15	3.00	4.25	2.75	7.80	4.75	0.50	2.40	1.50	2.38	5.70	3.25	7.10
Ra-226 (Bq/L)	0.37	0.0010	NMR	NMR	NMR	0.0050	NMR	0.0010	NMR	NMR	0.0370	NMR	NMR
pH low	≥6.0	8.4	8.8	8.6	8.6	8.7	8.3	8.4	8.4	8.5	7.6	9.0	9.1
pH high	≤9.5	9.1	9.0	9.4	9.5	9.2	9.1	9.1	9.1	8.9	8.9	9.4	9.7
Flow (m ³ /month)	—	488 437	316 848	383 260	1 278 666	1 502 922	816 769	1 325 888	963 267	663 037	1 117 797	1 004 451	800 143
Rainbow Trout	Pass	1	NMR	NMR	NMR	1	NMR	1	NMR	NMR	1	NMR	NMR
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
<i>Daphnia magna</i>	Pass	1	NMR	NMR	NMR	1	NMR	1	NMR	NMR	1	NMR	NMR
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
Comments:													
Notes: ND: No Deposit NMR: No Measurement Required Pass: ≤50% Mortality Fail: >50% Mortality Highlighted data indicate that a monthly effluent quality standard was exceeded for that month. A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement.													

Metal Mining Effluent Regulations (MMER) 2008 Effluent Compliance

Mine/Mill Name	MAX Molybdenum Mine and Mill												
Operator Name	FortyTwo Metals Inc.												
Product(s)	Molybdenum												
Address	42 Westside Road, Trout Lake, British Columbia V0G 1R0												
Effluent Discharge Point	MM.SiteD – Mine Portal Settling Pond												
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.
As (mg/L)	0.5	0.0010	0.0009	0.0010	0.0007	0.0005	0.0008	0.0025	0.0025	0.0025	0.0025	0.0025	0.0025
Cu (mg/L)	0.3	0.0014	0.0010	0.0009	0.0015	0.0014	0.0005	0.0015	0.0066	0.0015	0.0015	0.0015	0.0005
CN (mg/L)	1.0	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR
Pb (mg/L)	0.2	0.0014	0.0010	0.0010	0.0006	0.0006	0.0005	0.0006	0.0005	0.0005	0.0005	0.0005	0.0005
Ni (mg/L)	0.5	0.0021	0.0018	0.0019	0.0018	0.0014	0.0017	0.0025	0.0025	0.0025	0.0025	0.0025	0.0020
Zn (mg/L)	0.5	0.0113	0.0087	0.0100	0.0069	0.0085	0.0140	0.0105	0.0100	0.0100	0.0220	0.0050	0.0133
TSS (mg/L)	15	37.24	16.65	14.48	3.38	8.53	4.16	3.38	5.25	4.80	8.00	6.00	8.40
Ra-226 (Bq/L)	0.37	0.0200	NMR	NMR	0.0100	0.0060	0.0060	NMR	0.0100	NMR	NMR	0.0100	NMR
pH low	≥6.0	8.0	7.9	7.9	7.9	7.7	8.0	7.4	7.3	7.3	7.2	7.1	7.0
pH high	≤9.5	8.2	8.1	8.1	8.1	8.0	8.2	7.5	7.5	7.7	7.5	7.5	7.3
Flow (m ³ /month)	—	7 429	13 035	12 992	15 553	20 244	5 465	6 476	8 564	8 286	6 213	6 587	7 417
Rainbow Trout	Pass	1	1	1	1	1	1	1	1	NMR	1	1	NMR
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
<i>Daphnia magna</i>	Pass	1	1	1	1	1	1	1	1	NMR	1	1	NMR
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
Comments:													
Notes: ND: No Deposit NMR: No Measurement Required Pass: ≤50% Mortality Fail: >50% Mortality Highlighted data indicate that a monthly effluent quality standard was exceeded for that month. A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement.													

Metal Mining Effluent Regulations (MMER) 2008 Effluent Compliance

Mine/Mill Name	MAX Molybdenum Mine and Mill												
Operator Name	FortyTwo Metals Inc.												
Product(s)	Molybdenum												
Address	42 Westside Road, Trout Lake, British Columbia V0G 1R0												
Effluent Discharge Point	MM.SiteI – Settling Ponds Decant												
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
As (mg/L)	0.5	0.0001	0.0001	0.0012	0.0014	0.0009	0.0008	0.0025	0.0025	0.0025	0.0025	0.0025	0.0025
Cu (mg/L)	0.3	0.0001	0.0002	0.0003	0.0012	0.0028	0.0008	0.0020	0.0015	0.0015	0.0015	0.0015	0.0005
CN (mg/L)	1.0	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR
Pb (mg/L)	0.2	0.0000	0.0000	0.0007	0.0013	0.0021	0.0007	0.0005	0.0005	0.0008	0.0005	0.0005	0.0005
Ni (mg/L)	0.5	0.0003	0.0003	0.0024	0.0031	0.0039	0.0023	0.0025	0.0025	0.0025	0.0025	NMR	0.0026
Zn (mg/L)	0.5	0.0005	0.0005	0.0017	0.0030	0.0058	0.0040	0.0050	0.0050	0.0050	0.0050	0.0025	0.0050
TSS (mg/L)	15	0.64	0.50	7.18	4.53	17.83	10.02	9.33	2.50	10.40	10.25	12.25	6.00
Ra-226 (Bq/L)	0.37	0.0069	0.0025	NMR	0.0100	0.0060	0.0080	NMR	0.0025	NMR	NMR	0.0050	NMR
pH low	≥6.0	7.9	7.8	7.9	8.1	8.0	8.1	7.4	7.7	7.7	7.6	7.4	7.5
pH high	≤9.5	8.2	8.0	8.3	8.3	8.2	8.2	7.8	7.9	7.9	7.9	7.8	7.7
Flow (m ³ /month)	—	36 893	26 957	21 639	31 615	170 748	130 169	91 901	2 418	58 267	52 737	64 431	50 371
Rainbow Trout	Pass	1	1	1	1	1	1	1	1	1	1	1	1
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
<i>Daphnia magna</i>	Pass	1	1	1	1	1	1	1	1	1	1	1	1
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
Comments:													
Notes: ND: No Deposit NMR: No Measurement Required Pass: ≤50% Mortality Fail: >50% Mortality Highlighted data indicate that a monthly effluent quality standard was exceeded for that month. A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement.													

Metal Mining Effluent Regulations (MMER) 2008 Effluent Compliance

Mine/Mill Name	MAX Molybdenum Mine and Mill												
Operator Name	FortyTwo Metals Inc.												
Product(s)	Molybdenum												
Address	42 Westside Road, Trout Lake, British Columbia V0G 1R0												
Effluent Discharge Point	MM.SiteM – Tailings Discharge												
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.
As (mg/L)	0.5	-	-	-	-	-	0.0006	ND	ND	ND	ND	ND	ND
Cu (mg/L)	0.3	-	-	-	-	-	0.0009	ND	ND	ND	ND	ND	ND
CN (mg/L)	1.0	-	-	-	-	-	NMR	ND	ND	ND	ND	ND	ND
Pb (mg/L)	0.2	-	-	-	-	-	0.0001	ND	ND	ND	ND	ND	ND
Ni (mg/L)	0.5	-	-	-	-	-	0.0030	ND	ND	ND	ND	ND	ND
Zn (mg/L)	0.5	-	-	-	-	-	0.0009	ND	ND	ND	ND	ND	ND
TSS (mg/L)	15	-	-	-	-	-	1.50	ND	ND	ND	ND	ND	ND
Ra-226 (Bq/L)	0.37	-	-	-	-	-	0.0050	ND	ND	ND	ND	ND	ND
pH low	≥6.0	-	-	-	-	-	7.8	ND	ND	ND	ND	ND	ND
pH high	≤9.5	-	-	-	-	-	7.8	ND	ND	ND	ND	ND	ND
Flow (m ³ /month)	—	-	-	-	-	-	48 075	ND	ND	ND	ND	ND	ND
Rainbow Trout	Pass	-	-	-	-	-	1	ND	ND	ND	ND	ND	ND
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
<i>Daphnia magna</i>	Pass	-	-	-	-	-	1	ND	ND	ND	ND	ND	ND
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
Comments:	This new final discharge point became subject to the MMER on May 27, 2008.												
Notes:	ND: No Deposit NMR: No Measurement Required Highlighted data indicate that a monthly effluent quality standard was exceeded for that month. A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement.												
	Pass: ≤50% Mortality Fail: >50% Mortality												

Metal Mining Effluent Regulations (MMER) 2008 Effluent Compliance

Mine/Mill Name	McAlpine Mill												
Operator Name	SMC (Canada) Ltd.												
Product(s)	Gold-Silver-Platinum-Palladium												
Address	Lot 4, Concession 4, P.O. Box 710, Coleman Road, Cobalt, Ontario P0J 1C0												
Effluent Discharge Point	Polishing Pond												
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
As (mg/L)	0.5	0.3258	0.1570	0.0984	0.3263	0.3750	0.3214	0.3073	0.4778	0.4374	0.2778	0.3240	0.1484
Cu (mg/L)	0.3	0.0023	0.0019	0.0015	0.0035	0.0030	0.0038	0.0023	0.0023	0.0023	0.0035	0.0035	0.0094
CN (mg/L)	1.0	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR
Pb (mg/L)	0.2	0.0031	0.0034	0.0043	0.0041	0.0025	0.0032	0.0034	0.0025	0.0030	0.0025	0.0053	0.0025
Ni (mg/L)	0.5	0.0288	0.0100	0.0220	0.0350	0.0175	0.0180	0.0100	0.0075	0.0090	0.0050	0.0125	0.0340
Zn (mg/L)	0.5	0.0050	0.0063	0.0050	0.0075	0.0050	0.0100	0.0063	0.0063	0.0060	0.0050	0.0050	0.0060
TSS (mg/L)	15	2.50	3.00	2.80	2.00	6.25	4.40	2.50	1.50	2.00	2.50	3.00	2.80
Ra-226 (Bq/L)	0.37	NMR	NMR	0.0050	0.0050	NMR	0.0100	0.0050	NMR	0.0100	NMR	NMR	0.0100
pH low	≥6.0	8.2	8.2	7.3	8.8	8.5	6.8	8.2	8.4	8.4	8.2	7.3	8.1
pH high	≤9.5	8.7	8.9	8.3	9.3	9.0	8.9	8.5	8.7	8.6	8.4	8.5	8.7
Flow (m ³ /month)	—	115 474	46 172	29 894	218 436	128 719	145 964	70 623	43 109	32 079	31 130	58 925	86 132
Rainbow Trout	Pass	NMR	NMR	1	NMR	NMR	1	NMR	NMR	1	NMR	NMR	1
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
<i>Daphnia magna</i>	Pass	NMR	NMR	1	NMR	NMR	-	1	1	1	1	1	1
Monitoring Test	Fail	-	-	-	-	-	1	-	-	-	-	-	-
Comments:													
Notes: ND: No Deposit NMR: No Measurement Required Pass: ≤50% Mortality Fail: >50% Mortality Highlighted data indicate that a monthly effluent quality standard was exceeded for that month. A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement.													

Metal Mining Effluent Regulations (MMER) 2008 Effluent Compliance

Mine/Mill Name	McArthur River Operation												
Operator Name	Cameco Corporation												
Product(s)	Uranium												
Address	2121-11th Street West, Saskatoon, Saskatchewan S7M 1J3												
Effluent Discharge Point	Station 2.1												
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
As (mg/L)	0.5	0.0010	0.0035	0.0032	0.0029	0.0031	0.0037	0.0014	0.0015	0.0027	0.0056	0.0020	0.0024
Cu (mg/L)	0.3	0.0013	0.0015	0.0017	0.0014	0.0011	0.0010	0.0012	0.0013	0.0011	0.0009	0.0007	0.0008
CN (mg/L)	1.0	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR
Pb (mg/L)	0.2	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0002	0.0002	0.0001	0.0002	0.0001	0.0001
Ni (mg/L)	0.5	0.0010	0.0009	0.0009	0.0009	0.0010	0.0007	0.0005	0.0007	0.0007	0.0007	0.0007	0.0005
Zn (mg/L)	0.5	0.0034	0.0027	0.0039	0.0037	0.0052	0.0036	0.0025	0.0026	0.0030	0.0027	0.0021	0.0023
TSS (mg/L)	15	0.50	0.63	0.50	0.80	0.63	0.50	0.50	0.50	0.70	1.00	1.00	0.80
Ra-226 (Bq/L)	0.37	0.1200	0.0925	0.1025	0.0850	0.0775	0.0800	0.0680	0.0975	0.0860	0.1150	0.1300	0.1100
pH low	≥6.0	7.4	7.4	7.3	7.2	7.3	7.3	7.3	7.3	7.2	7.1	7.1	6.8
pH high	≤9.5	7.6	7.5	7.4	7.5	7.4	7.5	7.4	7.5	7.5	7.4	7.6	7.7
Flow (m ³ /month)	—	206 942	193 739	208 387	200 850	204 465	206 127	210 347	210 003	201 028	205 652	253 225	269 001
Rainbow Trout	Pass	NMR	1	NMR	1	NMR	NMR	1	NMR	NMR	1	NMR	NMR
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
<i>Daphnia magna</i>	Pass	NMR	1	NMR	1	NMR	NMR	1	NMR	NMR	1	NMR	NMR
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
Comments:													
Notes: ND: No Deposit NMR: No Measurement Required Pass: ≤50% Mortality Fail: >50% Mortality Highlighted data indicate that a monthly effluent quality standard was exceeded for that month. A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement.													

Metal Mining Effluent Regulations (MMER) 2008 Effluent Compliance

Mine/Mill Name	McArthur River Operation												
Operator Name	Cameco Corporation												
Product(s)	Uranium												
Address	2121 – 111th Street West, Saskatoon, Saskatchewan S7M 1J3												
Effluent Discharge Point	Station 2.1B												
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
As (mg/L)	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Cu (mg/L)	0.3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
CN (mg/L)	1.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Pb (mg/L)	0.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ni (mg/L)	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Zn (mg/L)	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
TSS (mg/L)	15	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ra-226 (Bq/L)	0.37	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
pH low	≥6.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
pH high	≤9.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Flow (m ³ /month)	—	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Rainbow Trout	Pass	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
<i>Daphnia magna</i>	Pass	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
Comments:	No annual report was submitted. The annual report was completed from the quarterly reports.												
Notes:	ND: No Deposit NMR: No Measurement Required Highlighted data indicate that a monthly effluent quality standard was exceeded for that month. A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement.												

Pass: ≤50% Mortality
Fail: >50% Mortality

Metal Mining Effluent Regulations (MMER) 2008 Effluent Compliance

Mine/Mill Name	McArthur River Operation												
Operator Name	Cameco Corporation												
Product(s)	Uranium												
Address	2121-111th Street West, Saskatoon, Saskatchewan S7M 1J3												
Effluent Discharge Point	Station 2.7												
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.
As (mg/L)	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Cu (mg/L)	0.3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
CN (mg/L)	1.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Pb (mg/L)	0.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ni (mg/L)	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Zn (mg/L)	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
TSS (mg/L)	15	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ra-226 (Bq/L)	0.37	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
pH low	≥6.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
pH high	≤9.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Flow (m ³ /month)	—	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Rainbow Trout	Pass	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
<i>Daphnia magna</i>	Pass	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
Comments:	No annual report was submitted. The annual report was completed from the quarterly reports.												
Notes:	ND: No Deposit NMR: No Measurement Required Highlighted data indicate that a monthly effluent quality standard was exceeded for that month. A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement.												
	Pass: ≤50% Mortality Fail: >50% Mortality												

Metal Mining Effluent Regulations (MMER) 2008 Effluent Compliance

Mine/Mill Name	McClellan Lake Operation												
Operator Name	AREVA Resources Canada Inc.												
Product(s)	Uranium												
Address	P.O. Box 9204, 817-45th Street West, Saskatoon, Saskatchewan S7K 3X5												
Effluent Discharge Point	CM01-B (JEB Water Treatment Plant)												
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
As (mg/L)	0.5	0.0408	0.0525	0.0502	0.0465	0.0495	0.0608	0.0565	0.0533	0.0553	0.0593	0.0573	0.0515
Cu (mg/L)	0.3	0.0030	0.0028	0.0027	0.0030	0.0028	0.0035	0.0055	0.0045	0.0058	0.0065	0.0043	0.0080
CN (mg/L)	1.0	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR
Pb (mg/L)	0.2	0.0005	0.0005	0.0006	0.0006	0.0006	0.0006	0.0006	0.0005	0.0006	0.0005	0.0005	0.0006
Ni (mg/L)	0.5	0.0478	0.0870	0.0443	0.0423	0.0438	0.0620	0.0478	0.0708	0.0653	0.0813	0.0553	0.0732
Zn (mg/L)	0.5	0.0055	0.0055	0.0076	0.0055	0.0053	0.0046	0.0053	0.0075	0.0057	0.0055	0.0060	0.0045
TSS (mg/L)	15	3.50	3.00	4.17	2.25	1.38	1.50	3.00	2.75	3.50	3.00	3.00	3.67
Ra-226 (Bq/L)	0.37	0.0031	0.0031	0.0033	0.0044	0.0050	0.0038	0.0025	0.0044	0.0043	0.0038	0.0031	0.0045
pH low	≥6.0	7.1	6.8	7.1	7.2	7.1	6.9	7.1	6.6	6.9	7.0	6.8	7.0
pH high	≤9.5	7.8	7.2	7.4	7.2	7.3	7.4	7.6	7.1	7.2	7.2	7.2	7.4
Flow (m ³ /month)	—	126 408	129 309	143 473	143 156	145 871	142 495	139 438	129 998	137 555	143 406	159 565	131 186
Rainbow Trout	Pass	NMR	NMR	1	NMR	NMR	1	NMR	NMR	1	NMR	NMR	1
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
<i>Daphnia magna</i>	Pass	NMR	NMR	1	NMR	NMR	1	NMR	NMR	1	NMR	NMR	1
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
Comments:													
Notes: ND: No Deposit NMR: No Measurement Required Pass: ≤50% Mortality Fail: >50% Mortality Highlighted data indicate that a monthly effluent quality standard was exceeded for that month. A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement.													

Metal Mining Effluent Regulations (MMER) 2008 Effluent Compliance

Mine/Mill Name	McClellan Lake Operation												
Operator Name	AREVA Resources Canada Inc.												
Product(s)	Uranium												
Address	P.O. Box 9204, 817-45th Street West, Saskatoon, Saskatchewan S7K 3X5												
Effluent Discharge Point	CM03												
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.
As (mg/L)	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Cu (mg/L)	0.3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
CN (mg/L)	1.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Pb (mg/L)	0.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ni (mg/L)	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Zn (mg/L)	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
TSS (mg/L)	15	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ra-226 (Bq/L)	0.37	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
pH low	≥6.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
pH high	≤9.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Flow (m ³ /month)	—	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Rainbow Trout	Pass	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
<i>Daphnia magna</i>	Pass	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
Comments:	No annual report was submitted. The annual report was completed from the quarterly reports.												
Notes:	ND: No Deposit NMR: No Measurement Required Highlighted data indicate that a monthly effluent quality standard was exceeded for that month. A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement.												
	Pass: ≤50% Mortality Fail: >50% Mortality												

Metal Mining Effluent Regulations (MMER) 2008 Effluent Compliance

Mine/Mill Name	McClean Lake Operation												
Operator Name	AREVA Resources Canada Inc.												
Product(s)	Uranium												
Address	P.O. Box 9204, 817-45th Street West, Saskatoon, Saskatchewan S7K 3X5												
Effluent Discharge Point	SC01 (SUE Water Treatment Plant Effluent)												
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
As (mg/L)	0.5	0.0810	0.0320	0.0542	0.0410	0.0118	0.0079	0.0373	0.0218	0.0394	0.0315	0.0408	0.0233
Cu (mg/L)	0.3	0.0006	0.0005	0.0006	0.0009	0.0035	0.0013	0.0006	0.0006	0.0005	0.0005	0.0005	0.0005
CN (mg/L)	1.0	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR
Pb (mg/L)	0.2	0.0005	0.0005	0.0006	0.0005	0.0005	0.0006	0.0005	0.0005	0.0006	0.0005	0.0005	0.0007
Ni (mg/L)	0.5	0.0350	0.0253	0.0775	0.0513	0.1143	0.0765	0.0203	0.0120	0.0493	0.0610	0.0795	0.1008
Zn (mg/L)	0.5	0.0005	0.0005	0.0009	0.0008	0.0010	0.0011	0.0006	0.0012	0.0011	0.0005	0.0008	0.0010
TSS (mg/L)	15	2.50	1.38	2.17	1.50	2.13	0.75	1.13	1.40	0.92	0.75	0.88	0.50
Ra-226 (Bq/L)	0.37	0.0263	0.0031	0.0038	0.0056	0.0113	0.0088	0.0113	0.0035	0.0037	0.0056	0.0056	0.0042
pH low	≥6.0	7.0	7.0	7.0	6.9	7.1	7.1	7.4	7.2	6.8	6.9	6.8	6.8
pH high	≤9.5	7.5	7.1	7.4	7.2	7.4	7.6	7.7	7.5	7.4	7.1	7.1	7.1
Flow (m ³ /month)	—	95 803	42 724	40 442	43 145	28 048	47 940	83 660	62 361	91 418	135 669	121 817	123 928
Rainbow Trout	Pass	NMR	NMR	1	NMR	NMR	1	NMR	NMR	1	NMR	NMR	1
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
<i>Daphnia magna</i>	Pass	NMR	NMR	1	NMR	NMR	1	NMR	NMR	1	NMR	NMR	1
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
Comments:													
Notes: ND: No Deposit NMR: No Measurement Required Pass: ≤50% Mortality Fail: >50% Mortality Highlighted data indicate that a monthly effluent quality standard was exceeded for that month. A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement.													

Metal Mining Effluent Regulations (MMER) 2008 Effluent Compliance

Mine/Mill Name	McWatters Mine												
Operator Name	Liberty Mines Inc.												
Product(s)	Nickel												
Address	P.O. Box 398, South Porcupine, Ontario P0N 1H0												
Effluent Discharge Point	MWD-2												
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
As (mg/L)	0.5	-	-	-	-	-	-	0.0010	0.0010	0.0010	0.0009	0.0005	0.0005
Cu (mg/L)	0.3	-	-	-	-	-	-	0.0027	0.0584	0.0662	0.0369	0.0022	0.0045
CN (mg/L)	1.0	-	-	-	-	-	-	NMR	NMR	NMR	NMR	NMR	NMR
Pb (mg/L)	0.2	-	-	-	-	-	-	0.0040	0.0040	0.0040	0.0031	0.0005	0.0005
Ni (mg/L)	0.5	-	-	-	-	-	-	0.0013	0.0048	0.0111	0.0078	0.0053	0.0140
Zn (mg/L)	0.5	-	-	-	-	-	-	0.0019	0.0031	0.0050	0.0046	0.0021	0.0036
TSS (mg/L)	15	-	-	-	-	-	-	6.50	5.38	7.20	3.88	2.58	0.38
Ra-226 (Bq/L)	0.37	-	-	-	-	-	-	0.0050	0.0050	0.0050	0.0050	0.0050	NMR
pH low	≥6.0	-	-	-	-	-	-	8.0	8.1	7.5	7.7	7.2	7.4
pH high	≤9.5	-	-	-	-	-	-	8.0	8.5	8.1	8.5	7.8	8.0
Flow (m ³ /month)	—	-	-	-	-	-	-	2 170	14 424	12 442	14 281	14 024	15 650
Rainbow Trout	Pass	-	-	-	-	-	-	1	1	1	1	1	1
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
<i>Daphnia magna</i>	Pass	-	-	-	-	-	-	1	1	1	1	1	1
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
Comments:	The mine became subject to the MMER on July 28, 2008.												
Notes: ND: No Deposit	NMR: No Measurement Required												
Highlighted data indicate that a monthly effluent quality standard was exceeded for that month.	Pass: ≤50% Mortality												
A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement.	Fail: >50% Mortality												

Metal Mining Effluent Regulations (MMER) 2008 Effluent Compliance

Mine/Mill Name	Minto Project												
Operator Name	Minto Explorations Ltd.												
Product(s)	Copper-Gold-Silver												
Address	P.O. Box 31634, Whitehorse, Yukon Y1A 6S1												
Effluent Discharge Point	Mi.W3 – Runoff Main Water Dam												
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
As (mg/L)	0.5	0.0004	0.0005	0.0005	0.0004	0.0001	0.0004	0.0006	0.0006	0.0008	0.0004	0.0004	0.0004
Cu (mg/L)	0.3	0.0044	0.0050	0.0039	0.0065	0.0042	0.0035	0.0042	0.0140	0.1148	0.0075	0.0083	0.0033
CN (mg/L)	1.0	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR
Pb (mg/L)	0.2	0.0002	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0002	0.0004	0.0006	0.0001	0.0001
Ni (mg/L)	0.5	0.0013	0.0014	0.0022	0.0014	0.0019	0.0006	0.0028	0.0031	0.0028	0.0020	0.0013	0.0012
Zn (mg/L)	0.5	0.0060	0.0070	0.0078	0.0058	0.0052	0.0065	0.0052	0.0053	0.0118	0.0088	0.0055	0.0044
TSS (mg/L)	15	3.00	4.50	1.75	3.00	4.60	1.00	2.20	6.25	17.40	2.75	13.25	9.25
Ra-226 (Bq/L)	0.37	NMR	NMR	0.0025	0.0062	NMR	0.0025	NMR	0.0062	NMR	0.0025	NMR	NMR
pH low	≥6.0	7.2	7.1	7.2	8.0	7.7	8.0	7.9	7.9	7.8	7.8	7.7	7.7
pH high	≤9.5	7.3	7.3	7.8	8.1	8.0	8.1	8.2	8.2	8.1	8.0	8.1	7.9
Flow (m ³ /month)	—	6 428	7 141	6 294	5 638	11 785	7 646	8 303	40 038	260 712	8 035	7 776	8 035
Rainbow Trout	Pass	1	1	1	1	1	1	1	1	1	1	1	1
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
<i>Daphnia magna</i>	Pass	1	1	1	1	1	1	1	1	1	1	1	1
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
Comments:													
Notes: ND: No Deposit NMR: No Measurement Required Pass: ≤50% Mortality Fail: >50% Mortality Highlighted data indicate that a monthly effluent quality standard was exceeded for that month. A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement.													

Metal Mining Effluent Regulations (MMER) 2008 Effluent Compliance

Mine/Mill Name	Mishi Pit (part of Eagle River Mill)												
Operator Name	Wesdome Gold Mines Ltd.												
Product(s)	Gold												
Address	93 Mission Road, P.O. Box 1520, Wawa, Ontario P0S 1K0												
Effluent Discharge Point	Mishi Pit												
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.
As (mg/L)	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Cu (mg/L)	0.3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
CN (mg/L)	1.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Pb (mg/L)	0.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ni (mg/L)	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Zn (mg/L)	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
TSS (mg/L)	15	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ra-226 (Bq/L)	0.37	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
pH low	≥6.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
pH high	≤9.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Flow (m ³ /month)	—	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Rainbow Trout	Pass	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
<i>Daphnia magna</i>	Pass	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
Comments:													
Notes: ND: No Deposit NMR: No Measurement Required Pass: ≤50% Mortality Fail: >50% Mortality Highlighted data indicate that a monthly effluent quality standard was exceeded for that month. A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement.													

Metal Mining Effluent Regulations (MMER) 2008 Effluent Compliance

Mine/Mill Name	Montcalm Project												
Operator Name	Xstrata Canada Corporation												
Product(s)	Nickel-Copper-Cobalt												
Address	c/o P.O. Box 2002, Hwy. 655 North, Timmins, Ontario P4N 7K1												
Effluent Discharge Point	Montcalm Final Effluent												
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
As (mg/L)	0.5	0.0004	0.0004	0.0004	0.0007	0.0004	0.0007	0.0008	ND	ND	0.0005	0.0005	0.0003
Cu (mg/L)	0.3	0.0015	0.0018	0.0129	0.0025	0.0024	0.0043	0.0032	ND	ND	0.0028	0.0022	0.0031
CN (mg/L)	1.0	NMR	NMR	NMR	NMR	NMR	NMR	NMR	ND	ND	NMR	NMR	NMR
Pb (mg/L)	0.2	0.0003	0.0007	0.0010	0.0001	0.0000	0.0002	0.0004	ND	ND	0.0003	0.0004	0.0002
Ni (mg/L)	0.5	0.0395	0.0347	0.0386	0.0429	0.0456	0.0591	0.0594	ND	ND	0.0738	0.1799	0.2926
Zn (mg/L)	0.5	0.0064	0.0065	0.0203	0.0044	0.0043	0.0158	0.0065	ND	ND	0.0034	0.0035	0.0036
TSS (mg/L)	15	1.00	1.00	1.00	1.08	2.50	1.00	1.23	ND	ND	1.56	1.17	1.10
Ra-226 (Bq/L)	0.37	0.0050	0.0050	0.0050	0.0050	0.0050	0.0050	0.0050	ND	ND	NMR	0.0050	NMR
pH low	≥6.0	7.1	7.2	6.9	7.2	7.3	7.3	7.2	ND	ND	7.3	7.5	7.3
pH high	≤9.5	7.8	7.8	7.7	7.8	7.6	7.8	7.5	ND	ND	7.8	7.9	7.8
Flow (m ³ /month)	—	41 918	46 339	43 464	93 769	18 353	62 191	44 799	ND	ND	29 856	44 283	34 495
Rainbow Trout	Pass	1	1	1	1	1	1	1	ND	ND	1	1	1
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
<i>Daphnia magna</i>	Pass	1	1	1	1	1	1	1	ND	ND	1	1	1
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
Comments:													
Notes: ND: No Deposit NMR: No Measurement Required Pass: ≤50% Mortality Fail: >50% Mortality Highlighted data indicate that a monthly effluent quality standard was exceeded for that month. A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement.													

Metal Mining Effluent Regulations (MMER) 2008 Effluent Compliance

Mine/Mill Name	Mont-Wright (Mine)												
Operator Name	Compagnie minière Québec Cartier / ArcelorMittal Mines Canada												
Product(s)	Iron												
Address	P.O. Box 1817, Mont-Wright, Quebec G0G 1J0												
Effluent Discharge Point	HS-1												
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
As (mg/L)	0.5	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0006	0.0005	0.0005	0.0005	0.0005	0.0005
Cu (mg/L)	0.3	0.0005	0.0005	0.0009	0.0010	0.0019	0.0030	0.0009	0.0013	0.0016	0.0020	0.0020	0.0009
CN (mg/L)	1.0	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR
Pb (mg/L)	0.2	0.0005	0.0005	0.0014	0.0005	0.0040	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005
Ni (mg/L)	0.5	0.0038	0.0035	0.0040	0.0054	0.0005	0.0029	0.0013	0.0024	0.0030	0.0040	0.0053	0.0036
Zn (mg/L)	0.5	0.0118	0.0098	0.0108	0.0118	0.0140	0.0068	0.0056	0.0075	0.0160	0.0175	0.0165	0.0098
TSS (mg/L)	15	0.50	0.50	0.88	10.80	13.25	5.50	5.20	5.75	5.00	8.75	5.25	2.00
Ra-226 (Bq/L)	0.37	NMR	0.0025	NMR	NMR	0.0080	NMR	NMR	0.0025	NMR	NMR	0.0010	NMR
pH low	≥6.0	6.5	6.4	6.2	6.5	6.4	6.4	6.8	8.5	6.6	6.8	6.7	7.2
pH high	≤9.5	6.8	7.6	6.7	7.2	6.8	6.9	8.2	8.8	8.3	7.1	7.6	7.4
Flow (m ³ /month)	—	488 213	430 302	440 634	4 810 752	14 374 080	10 951 200	8 061 389	8 911 074	1 901 520	1 212 162	1 424 880	1 952 851
Rainbow Trout	Pass	NMR	1	NMR	NMR	1	NMR	NMR	1	NMR	NMR	1	NMR
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
<i>Daphnia magna</i>	Pass	NMR	1	NMR	NMR	1	NMR	NMR	1	NMR	NMR	1	NMR
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
Comments:	As of May 29, 2008 the ownership of Mont-Wright (Mine) has been transferred from Compagnie minière Québec Cartier to ArcelorMittal Mines Canada.												
Notes:	ND: No Deposit NMR: No Measurement Required Pass: ≤50% Mortality Fail: >50% Mortality Highlighted data indicate that a monthly effluent quality standard was exceeded for that month. A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement.												

Metal Mining Effluent Regulations (MMER) 2008 Effluent Compliance

Mine/Mill Name	Mont-Wright (Mine)												
Operator Name	Compagnie minière Québec Cartier / ArcelorMittal Mines Canada												
Product(s)	Iron												
Address	P.O. Box 1817, Mont-Wright, Quebec G0G 1J0												
Effluent Discharge Point	MS-2												
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.
As (mg/L)	0.5	ND	ND	ND	ND	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	ND
Cu (mg/L)	0.3	ND	ND	ND	ND	0.0038	0.0010	0.0013	0.0019	0.0022	0.0020	0.0025	ND
CN (mg/L)	1.0	ND	ND	ND	ND	NMR	NMR	NMR	NMR	NMR	NMR	NMR	ND
Pb (mg/L)	0.2	ND	ND	ND	ND	0.0223	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	ND
Ni (mg/L)	0.5	ND	ND	ND	ND	0.0128	0.0233	0.0160	0.0230	0.0280	0.0230	0.0210	ND
Zn (mg/L)	0.5	ND	ND	ND	ND	0.0150	0.0147	0.0108	0.0140	0.0242	0.0388	0.0275	ND
TSS (mg/L)	15	ND	ND	ND	ND	10.00	3.00	3.20	6.25	3.00	3.00	2.00	ND
Ra-226 (Bq/L)	0.37	ND	ND	ND	ND	0.0025	NMR	0.0200	0.0140	0.0200	-	-	ND
pH low	≥6.0	ND	ND	ND	ND	6.0	6.0	6.5	6.8	6.3	6.3	6.4	ND
pH high	≤9.5	ND	ND	ND	ND	6.2	6.6	7.0	7.2	6.6	6.8	6.8	ND
Flow (m ³ /month)	—	ND	ND	ND	ND	97 200	49 140	64 877	56 730	39 600	46 872	13 728	ND
Rainbow Trout	Pass	ND	ND	ND	ND	1	-	1	1	1	-	-	ND
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
<i>Daphnia magna</i>	Pass	ND	ND	ND	ND	1	-	1	1	1	-	-	ND
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
Comments:	No toxicity test results were provided for June, October and November. No radium 226 test result was provided for the fourth quarter. As of May 29, 2008 the ownership of Mont-Wright (Mine) has been transferred from Compagnie minière Québec Cartier to ArcelorMittal Mines Canada.												
Notes:	ND: No Deposit NMR: No Measurement Required Pass: ≤50% Mortality Fail: >50% Mortality Highlighted data indicate that a monthly effluent quality standard was exceeded for that month. A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement.												

Metal Mining Effluent Regulations (MMER) 2008 Effluent Compliance

Mine/Mill Name	Mouska (Mine)												
Operator Name	Gestion IAMGOLD Québec Inc.												
Product(s)	Gold												
Address	P.O. Box 9999, 1075 3rd Ave East, Val-d'Or, Quebec J9P 6M1												
Effluent Discharge Point	Final Effluent												
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
As (mg/L)	0.5	0.0005	NMR	NMR	0.0005	NMR	NMR	0.0003	NMR	NMR	0.0017	NMR	NMR
Cu (mg/L)	0.3	0.0096	NMR	NMR	0.0130	NMR	NMR	0.0096	NMR	0.0077	0.0135	NMR	NMR
CN (mg/L)	1.0	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR
Pb (mg/L)	0.2	0.0012	NMR	NMR	0.0030	NMR	NMR	0.0030	NMR	NMR	0.0003	NMR	NMR
Ni (mg/L)	0.5	0.0025	NMR	NMR	0.0020	NMR	NMR	0.0003	NMR	NMR	0.0170	NMR	NMR
Zn (mg/L)	0.5	0.0092	NMR	NMR	0.0220	NMR	NMR	0.0130	NMR	NMR	0.0070	NMR	NMR
TSS (mg/L)	15	1.00	1.50	3.25	4.20	3.75	2.78	4.30	3.13	2.30	2.88	1.00	5.10
Ra-226 (Bq/L)	0.37	0.0010	NMR	NMR	0.0040	NMR	NMR	0.0280	NMR	NMR	0.0150	NMR	NMR
pH low	≥6.0	7.6	7.6	7.8	8.0	7.9	8.0	8.0	8.1	7.9	7.9	7.7	7.6
pH high	≤9.5	7.9	7.8	8.0	8.1	8.2	8.1	8.1	8.3	8.2	8.2	8.3	8.0
Flow (m ³ /month)	—	62 682	62 953	59 036	51 494	50 666	50 976	59 282	96 088	91 325	97 762	103 248	112 716
Rainbow Trout	Pass	1	NMR	NMR	1	NMR	NMR	1	NMR	NMR	1	NMR	NMR
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
<i>Daphnia magna</i>	Pass	1	NMR	NMR	1	NMR	NMR	1	NMR	NMR	1	NMR	NMR
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
Comments:													
Notes: ND: No Deposit NMR: No Measurement Required Pass: ≤50% Mortality Fail: >50% Mortality Highlighted data indicate that a monthly effluent quality standard was exceeded for that month. A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement.													

Metal Mining Effluent Regulations (MMER) 2008 Effluent Compliance

Mine/Mill Name	Musselwhite Mine												
Operator Name	Goldcorp Inc.												
Product(s)	Gold												
Address	P.O. Box 7500, Thunder Bay, Ontario P7B 6S8												
Effluent Discharge Point	FDP 1												
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
As (mg/L)	0.5	ND	ND	ND	ND	ND	0.0045	0.0040	0.0044	0.0046	0.0045	ND	ND
Cu (mg/L)	0.3	ND	ND	ND	ND	ND	0.0058	0.0073	0.0032	0.0038	0.0040	ND	ND
CN (mg/L)	1.0	ND	ND	ND	ND	ND	0.0035	0.0023	0.0030	0.0019	0.0030	ND	ND
Pb (mg/L)	0.2	ND	ND	ND	ND	ND	0.0005	0.0005	0.0001	0.0000	0.0001	ND	ND
Ni (mg/L)	0.5	ND	ND	ND	ND	ND	0.0068	0.0090	0.0091	0.0106	0.0110	ND	ND
Zn (mg/L)	0.5	ND	ND	ND	ND	ND	0.0074	0.0023	0.0055	0.0026	0.0032	ND	ND
TSS (mg/L)	15	ND	ND	ND	ND	ND	1.13	0.86	0.69	0.65	2.26	ND	ND
Ra-226 (Bq/L)	0.37	ND	ND	ND	ND	ND	0.0050	0.0050	0.0050	0.0050	0.0050	ND	ND
pH low	≥6.0	ND	ND	ND	ND	ND	7.0	7.0	7.0	7.0	7.1	ND	ND
pH high	≤9.5	ND	ND	ND	ND	ND	7.4	7.2	7.2	7.2	7.1	ND	ND
Flow (m ³ /month)	—	ND	ND	ND	ND	ND	310 514	604 573	486 098	341 621	424 352	ND	ND
Rainbow Trout	Pass	ND	ND	ND	ND	ND	1	1	1	1	1	ND	ND
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
<i>Daphnia magna</i>	Pass	ND	ND	ND	ND	ND	1	1	1	1	1	ND	ND
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
Comments:													
Notes: ND: No Deposit NMR: No Measurement Required Pass: ≤50% Mortality Fail: >50% Mortality Highlighted data indicate that a monthly effluent quality standard was exceeded for that month. A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement.													

Metal Mining Effluent Regulations (MMER) 2008 Effluent Compliance

Mine/Mill Name	Myra Falls Operations												
Operator Name	NVI Mining Ltd.												
Product(s)	Copper-Zinc-Lead-Gold-Silver												
Address	P.O. Box 8000, Campbell River, British Columbia V9W 5E2												
Effluent Discharge Point	ME.11A – Runoff Myra Ponds Effluent												
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.
As (mg/L)	0.5	0.0005	0.0011	0.0011	0.0009	0.0007	0.0008	0.0014	0.0017	0.0010	0.0007	0.0008	0.0008
Cu (mg/L)	0.3	0.0299	0.0302	0.0261	0.0442	0.0458	0.0464	0.0228	0.0421	0.0238	0.0308	0.0320	0.0271
CN (mg/L)	1.0	NMR	NMR	0.0025	NMR	0.0025	NMR	NMR	0.0027	NMR	0.0027	NMR	NMR
Pb (mg/L)	0.2	0.0025	0.0096	0.0100	0.0018	0.0007	0.0013	0.0023	0.0017	0.0020	0.0017	0.0036	0.0046
Ni (mg/L)	0.5	0.0013	0.0013	0.0015	0.0012	0.0018	0.0018	0.0013	0.0011	0.0014	0.0014	0.0010	0.0018
Zn (mg/L)	0.5	0.2052	0.1388	0.1194	0.1711	0.2450	0.1525	0.1162	0.0889	0.1239	0.1584	0.1810	0.2374
TSS (mg/L)	15	6.74	11.90	8.03	5.94	3.83	3.50	8.80	4.75	3.50	4.40	5.75	4.40
Ra-226 (Bq/L)	0.37	NMR	NMR	0.0090	NMR	0.0025	NMR	NMR	0.0025	NMR	0.0025	NMR	NMR
pH low	≥6.0	8.9	8.8	8.9	9.0	8.6	8.9	9.0	9.0	9.0	9.0	9.0	8.8
pH high	≤9.5	9.2	9.1	9.3	9.1	9.0	9.1	9.0	9.0	9.2	9.2	9.1	9.1
Flow (m ³ /month)	—	759 341	593 717	774 414	567 623	778 605	697 717	826 697	880 145	917 410	1 034 571	1 282 595	673 930
Rainbow Trout	Pass	NMR	NMR	1	NMR	1	2	1	1	1	1	1	1
Acute Lethality Test	Fail	-	-	-	-	1	-	-	-	-	-	-	-
<i>Daphnia magna</i>	Pass	NMR	NMR	1	NMR	2	2	1	1	-	1	1	1
Monitoring Test	Fail	-	-	-	-	-	-	-	-	1	-	-	-
Comments:													
Notes: ND: No Deposit NMR: No Measurement Required Pass: ≤50% Mortality Fail: >50% Mortality Highlighted data indicate that a monthly effluent quality standard was exceeded for that month. A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement.													

Metal Mining Effluent Regulations (MMER) 2008 Effluent Compliance

Mine/Mill Name	New Britannia Mine												
Operator Name	Garson Gold Corporation												
Product(s)	Gold												
Address	P.O. Box 451, 114 Cedar Street, Snow Lake, Manitoba R0B 1M0												
Effluent Discharge Point	SWM03 (Birch Lake Outlet Embankment Decant Discharge)												
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
As (mg/L)	0.5	ND	ND	ND	ND	ND	ND	ND	0.5450	0.2390	ND	ND	ND
Cu (mg/L)	0.3	ND	ND	ND	ND	ND	ND	ND	0.0137	0.0150	ND	ND	ND
CN (mg/L)	1.0	ND	ND	ND	ND	ND	ND	ND	0.0020	0.0050	ND	ND	ND
Pb (mg/L)	0.2	ND	ND	ND	ND	ND	ND	ND	0.0003	0.0003	ND	ND	ND
Ni (mg/L)	0.5	ND	ND	ND	ND	ND	ND	ND	0.0100	0.0100	ND	ND	ND
Zn (mg/L)	0.5	ND	ND	ND	ND	ND	ND	ND	0.0433	0.0100	ND	ND	ND
TSS (mg/L)	15	ND	ND	ND	ND	ND	ND	ND	1.00	1.00	ND	ND	ND
Ra-226 (Bq/L)	0.37	ND	ND	ND	ND	ND	ND	ND	0.0467	0.0600	ND	ND	ND
pH low	≥6.0	ND	ND	ND	ND	ND	ND	ND	7.5	7.6	ND	ND	ND
pH high	≤9.5	ND	ND	ND	ND	ND	ND	ND	7.8	7.6	ND	ND	ND
Flow (m ³ /month)	—	ND	ND	ND	ND	ND	ND	ND	467 600	37 655	ND	ND	ND
Rainbow Trout	Pass	ND	ND	ND	ND	ND	ND	ND	1	-	ND	ND	ND
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
<i>Daphnia magna</i>	Pass	ND	ND	ND	ND	ND	ND	ND	1	-	ND	ND	ND
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
Comments:	No toxicity test results were provided for September. The toxicity test was scheduled on day of no flow. The mine reported discharge of effluent during only 3 days in September.												
Notes:	ND: No Deposit NMR: No Measurement Required Highlighted data indicate that a monthly effluent quality standard was exceeded for that month. A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement.												

Pass: ≤50% Mortality
Fail: >50% Mortality

Metal Mining Effluent Regulations (MMER) 2008 Effluent Compliance

Mine/Mill Name	Niobec (Mine)												
Operator Name	Gestion IAMGOLD Québec Inc.												
Product(s)	Niobium												
Address	3400 Chemin du Columbiun, St-Honoré de Chicoutimi, Quebec G0V 1L0												
Effluent Discharge Point	Final Effluent												
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
As (mg/L)	0.5	0.0047	NMR	NMR	NMR	0.0058	NMR	0.0010	NMR	NMR	ND	ND	ND
Cu (mg/L)	0.3	0.0120	NMR	NMR	NMR	0.0030	NMR	0.0060	NMR	NMR	ND	ND	ND
CN (mg/L)	1.0	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	ND	ND	ND
Pb (mg/L)	0.2	0.0005	NMR	NMR	NMR	0.0035	NMR	0.0010	NMR	NMR	ND	ND	ND
Ni (mg/L)	0.5	0.0060	NMR	NMR	NMR	0.0230	NMR	0.0110	NMR	NMR	ND	ND	ND
Zn (mg/L)	0.5	0.0300	0.0545	0.0718	0.0746	0.0284	0.0163	0.0440	0.0225	0.0300	ND	ND	ND
TSS (mg/L)	15	7.40	7.25	7.25	13.00	16.00	12.00	10.00	17.50	18.80	ND	ND	ND
Ra-226 (Bq/L)	0.37	0.1176	0.0865	0.0948	0.0850	0.0793	0.0468	0.0444	0.0750	0.0640	ND	ND	ND
pH low	≥6.0	7.3	7.3	7.2	7.3	7.9	7.5	7.6	7.7	7.7	ND	ND	ND
pH high	≤9.5	7.8	7.6	7.5	7.7	8.0	7.7	7.8	7.9	7.9	ND	ND	ND
Flow (m ³ /month)	—	318 122	180 150	239 010	357 534	228 937	220 628	250 155	363 343	268 074	ND	ND	ND
Rainbow Trout	Pass	1	NMR	NMR	1	NMR	NMR	1	NMR	NMR	ND	ND	ND
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
<i>Daphnia magna</i>	Pass	1	NMR	NMR	1	NMR	NMR	-	NMR	NMR	ND	ND	ND
Monitoring Test	Fail	-	-	-	-	-	-	1	-	-	-	-	-
Comments:													
Notes: ND: No Deposit NMR: No Measurement Required Pass: ≤50% Mortality Fail: >50% Mortality Highlighted data indicate that a monthly effluent quality standard was exceeded for that month. A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement.													

Metal Mining Effluent Regulations (MMER) 2008 Effluent Compliance

Mine/Mill Name	Nugget Pond Mine												
Operator Name	Crew Gold Corporation												
Product(s)	Gold												
Address	P.O. Box 40, Baie Verte, Newfoundland and Labrador A0K 1B0												
Effluent Discharge Point	Polishing Pond Effluent												
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
As (mg/L)	0.5	0.0810	ND	ND	0.0215	0.0490	0.1310	ND	0.1220	0.1270	ND	0.1580	0.1220
Cu (mg/L)	0.3	0.0120	ND	ND	0.0120	0.0103	0.0110	ND	0.0070	0.0070	ND	0.0090	0.0540
CN (mg/L)	1.0	0.0090	ND	ND	0.0060	0.0303	0.0470	ND	0.0040	0.0300	ND	0.0005	0.0300
Pb (mg/L)	0.2	0.0010	ND	ND	0.0010	0.0010	0.0010	ND	0.0005	0.0010	ND	0.0010	0.0010
Ni (mg/L)	0.5	0.0050	ND	ND	0.0025	0.0037	0.0070	ND	0.0060	0.0060	ND	0.0060	0.0070
Zn (mg/L)	0.5	0.0020	ND	ND	0.0060	0.0057	0.0050	ND	0.0050	0.0050	ND	0.0040	0.0140
TSS (mg/L)	15	1.00	ND	ND	1.50	2.33	2.00	ND	2.00	2.00	ND	2.00	4.00
Ra-226 (Bq/L)	0.37	0.0050	ND	ND	0.0050	0.0050	0.0050	ND	0.0050	0.0050	ND	0.0050	0.0050
pH low	≥6.0	7.3	ND	ND	6.2	6.3	7.6	ND	7.6	7.4	ND	7.3	7.3
pH high	≤9.5	7.3	ND	ND	6.6	7.3	7.6	ND	7.6	7.4	ND	7.3	7.3
Flow (m ³ /month)	—	88 750	ND	ND	88 750	88 750	88 750	ND	88 750	88 750	ND	88 750	88 750
Rainbow Trout	Pass	1	ND	ND	1	3	1	ND	1	1	ND	1	1
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
<i>Daphnia magna</i>	Pass	1	ND	ND	1	3	1	ND	1	1	ND	1	1
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
Comments:													
Notes: ND: No Deposit NMR: No Measurement Required Pass: ≤50% Mortality Fail: >50% Mortality Highlighted data indicate that a monthly effluent quality standard was exceeded for that month. A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement.													

Metal Mining Effluent Regulations (MMER) 2008 Effluent Compliance

Mine/Mill Name	Pine Cove Property												
Operator Name	Anaconda Mining Inc.												
Product(s)	Gold												
Address	P.O. Box 238, Baie Verte, Newfoundland and Labrador A0K 1B0												
Effluent Discharge Point	Tailings Pond Discharge												
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.
As (mg/L)	0.5	-	-	-	-	-	-	-	-	-	-	-	0.0010
Cu (mg/L)	0.3	-	-	-	-	-	-	-	-	-	-	-	0.0470
CN (mg/L)	1.0	-	-	-	-	-	-	-	-	-	-	-	0.1255
Pb (mg/L)	0.2	-	-	-	-	-	-	-	-	-	-	-	0.0006
Ni (mg/L)	0.5	-	-	-	-	-	-	-	-	-	-	-	0.0045
Zn (mg/L)	0.5	-	-	-	-	-	-	-	-	-	-	-	0.0405
TSS (mg/L)	15	-	-	-	-	-	-	-	-	-	-	-	17.50
Ra-226 (Bq/L)	0.37	-	-	-	-	-	-	-	-	-	-	-	0.0025
pH low	≥6.0	-	-	-	-	-	-	-	-	-	-	-	7.6
pH high	≤9.5	-	-	-	-	-	-	-	-	-	-	-	7.9
Flow (m ³ /month)	—	-	-	-	-	-	-	-	-	-	-	-	19 141
Rainbow Trout	Pass	-	-	-	-	-	-	-	-	-	-	-	1
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
<i>Daphnia magna</i>	Pass	-	-	-	-	-	-	-	-	-	-	-	1
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
Comments:	The mine became subject to the MMER in December 2008.												
Notes: ND: No Deposit Highlighted data indicate that a monthly effluent quality standard was exceeded for that month. A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement.	NMR: No Measurement Required			Pass: ≤50% Mortality			Fail: >50% Mortality						

Metal Mining Effluent Regulations (MMER) 2008 Effluent Compliance

Mine/Mill Name	Podolsky Mine												
Operator Name	FNX Mining Company Inc.												
Product(s)	Copper-Nickel-Palladium-Platinum-Gold												
Address	P.O. Box 340, Portelance Road, Capreol, Ontario P0M 1H0												
Effluent Discharge Point	Norman North Bog Outlet												
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
As (mg/L)	0.5	0.0007	0.0010	0.0013	0.0007	0.0008	0.0009	0.0015	0.0014	0.0012	0.0013	0.0025	0.0012
Cu (mg/L)	0.3	0.0073	0.0065	0.0085	0.0080	0.0161	0.0106	0.0101	0.0136	0.0196	0.0244	0.0092	0.0097
CN (mg/L)	1.0	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR
Pb (mg/L)	0.2	0.0005	0.0005	0.0005	0.0005	0.0007	0.0012	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005
Ni (mg/L)	0.5	0.1491	0.1477	0.2293	0.1147	0.1751	0.1443	0.1251	0.1102	0.1197	0.1815	0.1349	0.1193
Zn (mg/L)	0.5	0.0290	0.0283	0.0343	0.0285	0.0439	0.0295	0.0221	0.0155	0.0209	0.0261	0.0238	0.0248
TSS (mg/L)	15	6.00	2.93	6.00	6.00	5.12	1.05	0.53	0.41	1.11	1.76	1.00	0.91
Ra-226 (Bq/L)	0.37	0.0050	0.0050	0.0050	0.0050	0.0039	0.0050	0.0080	0.0050	0.0050	0.0050	0.0050	0.0050
pH low	≥6.0	5.9	5.8	5.8	5.5	5.3	6.3	6.6	5.9	6.4	6.1	6.0	5.8
pH high	≤9.5	6.4	6.4	7.0	7.2	7.3	7.9	7.4	7.6	7.0	7.3	7.5	6.7
Flow (m ³ /month)	—	12 836	12 189	1 810	23 895	9 618	10 407	8 618	5 651	9 002	8 025	12 837	18 772
Rainbow Trout	Pass	1	1	1	1	1	1	1	1	1	2	3	2
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
<i>Daphnia magna</i>	Pass	1	1	1	1	1	1	1	1	1	2	2	1
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	-	1	1
Comments:													
Notes: ND: No Deposit NMR: No Measurement Required Pass: ≤50% Mortality Fail: >50% Mortality Highlighted data indicate that a monthly effluent quality standard was exceeded for that month. A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement.													

Metal Mining Effluent Regulations (MMER) 2008 Effluent Compliance

Mine/Mill Name	Porcupine Gold Mines												
Operator Name	Goldcorp Canada Ltd. and Goldcorp Inc.												
Product(s)	Gold												
Address	1 Gold Mine Road, P.O. Box 70, South Porcupine, Ontario P0N 1H0												
Effluent Discharge Point	Mine Effluent Treatment Plant – Dome Mine												
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.
As (mg/L)	0.5	ND	ND	ND	ND	ND	0.0037	0.0053	0.0066	0.0077	0.0105	ND	ND
Cu (mg/L)	0.3	ND	ND	ND	ND	ND	0.1117	0.0504	0.0177	0.0076	0.0120	ND	ND
CN (mg/L)	1.0	ND	ND	ND	ND	ND	0.0800	0.0788	0.0490	0.0432	0.0670	ND	ND
Pb (mg/L)	0.2	ND	ND	ND	ND	ND	0.0040	0.0040	0.0040	0.0040	0.0040	ND	ND
Ni (mg/L)	0.5	ND	ND	ND	ND	ND	0.0711	0.0429	0.0397	0.0246	0.0260	ND	ND
Zn (mg/L)	0.5	ND	ND	ND	ND	ND	0.0061	0.0016	0.0015	0.0009	0.0033	ND	ND
TSS (mg/L)	15	ND	ND	ND	ND	ND	2.08	4.63	0.88	0.74	7.50	ND	ND
Ra-226 (Bq/L)	0.37	ND	ND	ND	ND	ND	0.0050	0.0050	NMR	NMR	0.0050	ND	ND
pH low	≥6.0	ND	ND	ND	ND	ND	7.0	7.6	7.6	7.2	7.4	ND	ND
pH high	≤9.5	ND	ND	ND	ND	ND	7.5	7.8	8.0	7.6	7.4	ND	ND
Flow (m ³ /month)	—	ND	ND	ND	ND	ND	402 512	571 207	882 849	908 220	83 952	ND	ND
Rainbow Trout	Pass	ND	ND	ND	ND	ND	1	1	1	1	1	ND	ND
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
<i>Daphnia magna</i>	Pass	ND	ND	ND	ND	ND	1	1	1	1	1	ND	ND
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
Comments:													
Notes: ND: No Deposit NMR: No Measurement Required Pass: ≤50% Mortality Fail: >50% Mortality Highlighted data indicate that a monthly effluent quality standard was exceeded for that month. A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement.													

Metal Mining Effluent Regulations (MMER) 2008 Effluent Compliance

Mine/Mill Name	Porcupine Gold Mines												
Operator Name	Goldcorp Canada Ltd. and Goldcorp Inc.												
Product(s)	Gold												
Address	1 Gold Mine Road, P.O. Box 70, South Porcupine, Ontario P0N 1H0												
Effluent Discharge Point	Mine Water Storage Pond – Dome Mine												
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
As (mg/L)	0.5	0.0074	0.0050	0.0043	0.0123	0.0085	0.0111	0.0112	0.0090	0.0088	0.0059	0.0087	0.0082
Cu (mg/L)	0.3	0.0061	0.0017	0.0016	0.0010	0.0017	0.0010	0.0009	0.0011	0.0018	0.0024	0.0022	0.0016
CN (mg/L)	1.0	0.0025	0.0025	0.0025	0.0025	0.0025	0.0025	0.0034	0.0025	0.0025	0.0025	0.0025	0.0025
Pb (mg/L)	0.2	0.0040	0.0040	0.0040	0.0040	0.0040	0.0040	0.0040	0.0040	0.0040	0.0040	0.0040	0.0050
Ni (mg/L)	0.5	0.0239	0.0137	0.0175	0.0258	0.0216	0.0226	0.0232	0.0246	0.0258	0.0250	0.0248	0.0245
Zn (mg/L)	0.5	0.0160	0.0146	0.0098	0.0103	0.0071	0.0099	0.0087	0.0083	0.0083	0.0083	0.0070	0.0086
TSS (mg/L)	15	4.78	6.55	4.04	10.38	2.98	7.08	4.48	2.48	2.36	4.70	4.15	12.00
Ra-226 (Bq/L)	0.37	0.0050	NMR	NMR	0.0050	NMR	NMR	0.0050	NMR	NMR	0.0050	NMR	NMR
pH low	≥6.0	8.0	7.9	7.9	7.9	7.9	8.0	8.0	7.9	7.9	8.0	7.9	8.0
pH high	≤9.5	8.0	8.1	8.1	8.1	8.1	8.1	8.1	8.0	8.1	8.1	8.1	8.4
Flow (m ³ /month)	—	71 102	53 256	44 113	136 260	102 858	94 608	112 530	87 978	73 296	68 634	58 860	67 853
Rainbow Trout	Pass	1	NMR	NMR	1	NMR	NMR	1	NMR	NMR	1	NMR	NMR
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
<i>Daphnia magna</i>	Pass	1	NMR	NMR	1	NMR	NMR	1	NMR	NMR	1	NMR	NMR
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
Comments:													
Notes: ND: No Deposit NMR: No Measurement Required Pass: ≤50% Mortality Fail: >50% Mortality Highlighted data indicate that a monthly effluent quality standard was exceeded for that month. A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement.													

Metal Mining Effluent Regulations (MMER) 2008 Effluent Compliance

Mine/Mill Name	Porcupine Gold Mines												
Operator Name	Goldcorp Canada Ltd. and Goldcorp Inc.												
Product(s)	Gold												
Address	1 Gold Mine Road, P.O. Box 70, South Porcupine, Ontario P0N 1H0												
Effluent Discharge Point	Owl Creek Discharge 1												
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.
As (mg/L)	0.5	ND	ND	ND	ND	ND	0.0068	0.0067	0.0073	0.0079	0.0072	0.0058	ND
Cu (mg/L)	0.3	ND	ND	ND	ND	ND	0.0020	0.0017	0.0029	0.0051	0.0062	0.0051	ND
CN (mg/L)	1.0	ND	ND	ND	ND	ND	0.0025	0.0025	0.0034	0.0025	0.0025	0.0025	ND
Pb (mg/L)	0.2	ND	ND	ND	ND	ND	0.0040	0.0040	0.0040	0.0040	0.0040	0.0040	ND
Ni (mg/L)	0.5	ND	ND	ND	ND	ND	0.0164	0.0102	0.0096	0.0134	0.0240	0.0305	ND
Zn (mg/L)	0.5	ND	ND	ND	ND	ND	0.0073	0.0027	0.0044	0.0069	0.0153	0.0157	ND
TSS (mg/L)	15	ND	ND	ND	ND	ND	3.60	2.20	0.80	0.96	3.08	0.50	ND
Ra-226 (Bq/L)	0.37	ND	ND	ND	ND	ND	-	NMR	NMR	0.0050	0.0050	NMR	ND
pH low	≥6.0	ND	ND	ND	ND	ND	8.3	8.4	8.3	8.0	7.9	8.0	ND
pH high	≤9.5	ND	ND	ND	ND	ND	8.4	8.4	8.4	8.3	8.1	8.0	ND
Flow (m ³ /month)	—	ND	ND	ND	ND	ND	36 256	69 005	69 789	78 136	46 855	10 192	ND
Rainbow Trout	Pass	ND	ND	ND	ND	ND	-	1	1	1	1	1	ND
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
<i>Daphnia magna</i>	Pass	ND	ND	ND	ND	ND	-	1	1	1	1	1	ND
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
Comments:	No radium 226 test result was provided for the second quarter. No toxicity tests results were provided for June.												
Notes:	ND: No Deposit NMR: No Measurement Required Highlighted data indicate that a monthly effluent quality standard was exceeded for that month. A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement.												
	Pass: ≤50% Mortality Fail: >50% Mortality												

Metal Mining Effluent Regulations (MMER) 2008 Effluent Compliance

Mine/Mill Name	Porcupine Gold Mines												
Operator Name	Goldcorp Canada Ltd. and Goldcorp Inc.												
Product(s)	Gold												
Address	1 Gold Mine Road, P.O. Box 70, South Porcupine, Ontario P0N 1H0												
Effluent Discharge Point	Owl Creek Discharge 2												
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.
As (mg/L)	0.5	ND	ND	ND	ND	0.0048	0.0058	ND	ND	ND	ND	ND	ND
Cu (mg/L)	0.3	ND	ND	ND	ND	0.0023	0.0003	ND	ND	ND	ND	ND	ND
CN (mg/L)	1.0	ND	ND	ND	ND	0.0025	0.0025	ND	ND	ND	ND	ND	ND
Pb (mg/L)	0.2	ND	ND	ND	ND	0.0040	0.0040	ND	ND	ND	ND	ND	ND
Ni (mg/L)	0.5	ND	ND	ND	ND	0.0167	0.0151	ND	ND	ND	ND	ND	ND
Zn (mg/L)	0.5	ND	ND	ND	ND	0.0137	0.0129	ND	ND	ND	ND	ND	ND
TSS (mg/L)	15	ND	ND	ND	ND	4.20	5.80	ND	ND	ND	ND	ND	ND
Ra-226 (Bq/L)	0.37	ND	ND	ND	ND	0.0050	NMR	ND	ND	ND	ND	ND	ND
pH low	≥6.0	ND	ND	ND	ND	8.0	8.2	ND	ND	ND	ND	ND	ND
pH high	≤9.5	ND	ND	ND	ND	8.3	8.2	ND	ND	ND	ND	ND	ND
Flow (m ³ /month)	—	ND	ND	ND	ND	254 740	74 046	ND	ND	ND	ND	ND	ND
Rainbow Trout	Pass	ND	ND	ND	ND	1	1	ND	ND	ND	ND	ND	ND
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
<i>Daphnia magna</i>	Pass	ND	ND	ND	ND	1	1	ND	ND	ND	ND	ND	ND
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
Comments:													
Notes: ND: No Deposit NMR: No Measurement Required Pass: ≤50% Mortality Fail: >50% Mortality Highlighted data indicate that a monthly effluent quality standard was exceeded for that month. A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement.													

Metal Mining Effluent Regulations (MMER) 2008 Effluent Compliance

Mine/Mill Name	Porcupine Gold Mines												
Operator Name	Goldcorp Canada Ltd. and Goldcorp Inc.												
Product(s)	Gold												
Address	4315 Gold Mine Road, South Porcupine, Ontario P0N 1H0												
Effluent Discharge Point	Pamour Mine Water												
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.
As (mg/L)	0.5	0.0561	0.0593	0.0601	0.0372	0.0277	0.0500	0.0561	0.0731	0.0656	0.0935	0.0750	0.1150
Cu (mg/L)	0.3	0.0013	0.0016	0.0016	0.0007	0.0009	0.0006	0.0005	0.0007	0.0010	0.0017	0.0056	0.0048
CN (mg/L)	1.0	0.0170	0.0165	0.0184	0.0070	0.0085	0.0116	0.0080	0.0075	0.0043	0.0181	0.0118	0.0292
Pb (mg/L)	0.2	0.0040	0.0040	0.0040	0.0040	0.0040	0.0040	0.0040	0.0040	0.0040	0.0040	0.0040	0.0050
Ni (mg/L)	0.5	0.1938	0.1898	0.1766	0.1635	0.1555	0.1380	0.0852	0.1040	0.1150	0.1470	0.1658	0.1978
Zn (mg/L)	0.5	0.0294	0.0300	0.0284	0.0143	0.0077	0.0065	0.0028	0.0037	0.0042	0.0072	0.0065	0.0233
TSS (mg/L)	15	2.13	1.95	2.10	11.18	7.28	5.28	4.18	1.50	1.70	5.10	2.05	2.28
Ra-226 (Bq/L)	0.37	0.0050	NMR	NMR	0.0050	NMR	NMR	0.0050	NMR	NMR	0.0050	NMR	NMR
pH low	≥6.0	7.6	7.7	7.7	7.8	8.1	8.0	8.1	8.0	8.0	8.1	8.0	7.7
pH high	≤9.5	7.7	7.7	7.8	8.2	8.3	8.2	8.3	8.1	8.2	8.2	8.2	7.9
Flow (m ³ /month)	—	306 204	328 976	352 742	415 947	302 975	279 176	248 882	256 259	153 158	195 748	133 681	164 001
Rainbow Trout	Pass	1	NMR	NMR	1	NMR	NMR	1	NMR	NMR	1	NMR	NMR
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
<i>Daphnia magna</i>	Pass	1	NMR	NMR	1	NMR	NMR	1	NMR	NMR	1	NMR	NMR
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
Comments:													
Notes: ND: No Deposit NMR: No Measurement Required Pass: ≤50% Mortality Fail: >50% Mortality Highlighted data indicate that a monthly effluent quality standard was exceeded for that month. A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement.													

Metal Mining Effluent Regulations (MMER) 2008 Effluent Compliance

Mine/Mill Name	Principale (Camchib)												
Operator Name	Ressources Campbell Inc.												
Product(s)	Gold-Copper												
Address	P.O. Box 400, Chibougamau, Quebec G8P 2X8												
Effluent Discharge Point	Point 20												
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.
As (mg/L)	0.5	ND	ND	ND	ND	ND	ND	0.0034	0.0047	ND	ND	ND	ND
Cu (mg/L)	0.3	ND	ND	ND	ND	ND	ND	0.0213	0.0159	ND	ND	ND	ND
CN (mg/L)	1.0	ND	ND	ND	ND	ND	ND	0.0060	0.0070	ND	ND	ND	ND
Pb (mg/L)	0.2	ND	ND	ND	ND	ND	ND	0.0004	0.0008	ND	ND	ND	ND
Ni (mg/L)	0.5	ND	ND	ND	ND	ND	ND	0.0195	0.0190	ND	ND	ND	ND
Zn (mg/L)	0.5	ND	ND	ND	ND	ND	ND	0.0049	0.0010	ND	ND	ND	ND
TSS (mg/L)	15	ND	ND	ND	ND	ND	ND	3.25	0.88	ND	ND	ND	ND
Ra-226 (Bq/L)	0.37	ND	ND	ND	ND	ND	ND	0.0048	0.0013	ND	ND	ND	ND
pH low	≥6.0	ND	ND	ND	ND	ND	ND	7.6	7.6	ND	ND	ND	ND
pH high	≤9.5	ND	ND	ND	ND	ND	ND	7.8	7.8	ND	ND	ND	ND
Flow (m ³ /month)	—	ND	ND	ND	ND	ND	ND	468 767	298 701	ND	ND	ND	ND
Rainbow Trout	Pass	ND	ND	ND	ND	ND	1	1	1	ND	ND	ND	ND
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
<i>Daphnia magna</i>	Pass	ND	ND	ND	ND	ND	1	1	1	ND	ND	ND	ND
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
Comments:													
Notes: ND: No Deposit NMR: No Measurement Required Pass: ≤50% Mortality Fail: >50% Mortality Highlighted data indicate that a monthly effluent quality standard was exceeded for that month. A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement.													

Metal Mining Effluent Regulations (MMER) 2008 Effluent Compliance

Mine/Mill Name	Rabbit Lake Operation												
Operator Name	Cameco Corporation												
Product(s)	Uranium												
Address	2121-11th Street West, Saskatoon, Saskatchewan S7M 1J3												
Effluent Discharge Point	Station 2.3.3												
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
As (mg/L)	0.5	0.0026	0.0019	0.0022	0.0064	0.0140	0.0212	0.0108	0.0039	0.0082	0.0091	0.0101	0.0100
Cu (mg/L)	0.3	0.0014	0.0013	0.0013	0.0019	0.0018	0.0013	0.0010	0.0008	0.0057	0.0016	0.0022	0.0027
CN (mg/L)	1.0	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR
Pb (mg/L)	0.2	0.0001	0.0003	0.0003	0.0001	0.0004	0.0001	0.0002	0.0002	0.0002	0.0001	0.0001	0.0001
Ni (mg/L)	0.5	0.0038	0.0033	0.0036	0.0043	0.0050	0.0144	0.0115	0.0054	0.0134	0.0076	0.0056	0.0048
Zn (mg/L)	0.5	0.0010	0.0042	0.0063	0.0042	0.0051	0.0061	0.0050	0.0067	0.0034	0.0033	0.0033	0.0045
TSS (mg/L)	15	0.90	0.50	0.70	1.75	1.75	0.80	0.88	1.00	0.50	1.25	2.38	0.90
Ra-226 (Bq/L)	0.37	0.0075	0.0050	0.0069	0.0075	0.0084	0.0140	0.0041	0.0050	0.0030	0.0040	0.0040	0.0038
pH low	≥6.0	7.5	7.7	7.6	7.5	7.5	7.4	7.4	7.4	6.1	7.3	7.0	6.9
pH high	≤9.5	7.7	7.7	7.7	7.6	7.5	7.5	8.1	7.6	7.4	7.5	7.5	7.3
Flow (m ³ /month)	—	299 895	259 915	263 760	311 715	351 635	347 405	330 880	313 079	382 824	362 826	348 725	320 255
Rainbow Trout	Pass	1	NMR	NMR	1	NMR	NMR	1	NMR	NMR	1	NMR	NMR
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
<i>Daphnia magna</i>	Pass	1	NMR	NMR	1	NMR	NMR	1	NMR	NMR	1	NMR	NMR
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
Comments:													
Notes: ND: No Deposit NMR: No Measurement Required Pass: ≤50% Mortality Fail: >50% Mortality Highlighted data indicate that a monthly effluent quality standard was exceeded for that month. A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement.													

Metal Mining Effluent Regulations (MMER) 2008 Effluent Compliance

Mine/Mill Name	Raglan (Mine)												
Operator Name	Xstrata Canada Corporation												
Product(s)	Nickel-Copper-Cobalt-Platinum-Palladium												
Address	120 Avenue de l'Aéroport, Rouyn-Noranda, Quebec J9X 5B7												
Effluent Discharge Point	DIR-HSA												
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.
As (mg/L)	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Cu (mg/L)	0.3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
CN (mg/L)	1.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Pb (mg/L)	0.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ni (mg/L)	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Zn (mg/L)	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
TSS (mg/L)	15	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ra-226 (Bq/L)	0.37	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
pH low	≥6.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
pH high	≤9.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Flow (m ³ /month)	—	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Rainbow Trout	Pass	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
<i>Daphnia magna</i>	Pass	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
Comments:													
Notes: ND: No Deposit NMR: No Measurement Required Pass: ≤50% Mortality Fail: >50% Mortality Highlighted data indicate that a monthly effluent quality standard was exceeded for that month. A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement.													

Metal Mining Effluent Regulations (MMER) 2008 Effluent Compliance

Mine/Mill Name	Raglan (Mine)												
Operator Name	Xstrata Canada Corporation												
Product(s)	Nickel-Copper-Cobalt-Platinum-Palladium												
Address	120 Avenue de l'Aéroport, Rouyn-Noranda, Quebec J9X 5B7												
Effluent Discharge Point	DIR-SPOON												
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.
As (mg/L)	0.5	ND	ND	ND	ND	ND	ND	ND	0.0003	0.0003	ND	ND	ND
Cu (mg/L)	0.3	ND	ND	ND	ND	ND	ND	ND	0.0048	0.0043	ND	ND	ND
CN (mg/L)	1.0	ND	ND	ND	ND	ND	ND	ND	NMR	NMR	ND	ND	ND
Pb (mg/L)	0.2	ND	ND	ND	ND	ND	ND	ND	0.0008	0.0003	ND	ND	ND
Ni (mg/L)	0.5	ND	ND	ND	ND	ND	ND	ND	0.0755	0.0288	ND	ND	ND
Zn (mg/L)	0.5	ND	ND	ND	ND	ND	ND	ND	0.0022	0.0005	ND	ND	ND
TSS (mg/L)	15	ND	ND	ND	ND	ND	ND	ND	3.33	2.00	ND	ND	ND
Ra-226 (Bq/L)	0.37	ND	ND	ND	ND	ND	ND	ND	0.0010	-	ND	ND	ND
pH low	≥6.0	ND	ND	ND	ND	ND	ND	ND	7.0	6.9	ND	ND	ND
pH high	≤9.5	ND	ND	ND	ND	ND	ND	ND	7.2	6.9	ND	ND	ND
Flow (m ³ /month)	—	ND	ND	ND	ND	ND	ND	ND	94 300	21 342	ND	ND	ND
Rainbow Trout	Pass	ND	ND	ND	ND	ND	ND	ND	1	1	ND	ND	ND
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
<i>Daphnia magna</i>	Pass	ND	ND	ND	ND	ND	ND	ND	1	1	ND	ND	ND
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-

Comments: No radium 226 test result was provided in September. In order to reduce frequency of testing for radium 226, 10 consecutive tests must be conducted. For these tests, the concentration of radium 226 must be less than 0.037 Bq/L.

Notes: ND: No Deposit NMR: No Measurement Required Pass: ≤50% Mortality Fail: >50% Mortality
 Highlighted data indicate that a monthly effluent quality standard was exceeded for that month.
 A "Pass" for the *Daphnia magna* monitoring test is not a requirement.

Metal Mining Effluent Regulations (MMER) 2008 Effluent Compliance

Mine/Mill Name	Raglan (Mine)												
Operator Name	Xstrata Canada Corporation												
Product(s)	Nickel-Copper-Cobalt-Platinum-Palladium												
Address	120 Avenue de l'Aéroport, Rouyn-Noranda, Quebec J9X 5B7												
Effluent Discharge Point	DIR-UT												
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
As (mg/L)	0.5	ND	ND	ND	0.0060	0.0023	0.0017	0.0010	0.0009	0.0008	-	ND	ND
Cu (mg/L)	0.3	ND	ND	ND	0.0073	0.0072	0.0073	0.0043	0.0033	0.0026	-	ND	ND
CN (mg/L)	1.0	ND	ND	ND	NMR	NMR	NMR	NMR	NMR	NMR	-	ND	ND
Pb (mg/L)	0.2	ND	ND	ND	0.0003	0.0011	0.0028	0.0021	0.0007	0.0003	-	ND	ND
Ni (mg/L)	0.5	ND	ND	ND	0.0702	0.2147	0.2210	0.1546	0.1776	0.2054	-	ND	ND
Zn (mg/L)	0.5	ND	ND	ND	0.0140	0.0005	0.0022	0.0059	0.0014	0.0033	-	ND	ND
TSS (mg/L)	15	ND	ND	ND	0.50	6.00	10.70	2.13	2.00	1.75	-	ND	ND
Ra-226 (Bq/L)	0.37	ND	ND	ND	-	-	-	0.0010	NMR	NMR	-	ND	ND
pH low	≥6.0	ND	ND	ND	8.2	7.2	7.1	6.7	7.2	7.6	-	ND	ND
pH high	≤9.5	ND	ND	ND	8.2	7.7	8.5	7.8	8.4	8.1	-	ND	ND
Flow (m ³ /month)	—	ND	ND	ND	21 860	26 932	93 803	87 154	94 447	25 933	4 801	ND	ND
Rainbow Trout	Pass	ND	ND	ND	1	-	1	1	1	1	-	ND	ND
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
<i>Daphnia magna</i>	Pass	ND	ND	ND	1	-	1	1	1	1	-	ND	ND
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
Comments:	No radium 226 test result was provided for the second quarter. No toxicity tests results were provided for May. No toxicity test results were provided for October as well as test results for As, Cu, Pb, Ni and Zn. The mine reported discharge of effluent during only 2 days in October.												
Notes:	ND: No Deposit NMR: No Measurement Required Pass: ≤50% Mortality Fail: >50% Mortality Highlighted data indicate that a monthly effluent quality standard was exceeded for that month. A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement.												

Metal Mining Effluent Regulations (MMER) 2008 Effluent Compliance

Mine/Mill Name	Raglan (Mine)												
Operator Name	Xstrata Canada Corporation												
Product(s)	Nickel-Copper-Cobalt-Platinum-Palladium												
Address	120 Avenue de l'Aéroport, Rouyn-Noranda, Quebec J9X 5B7												
Effluent Discharge Point	DIR-Z3												
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.
As (mg/L)	0.5	ND	ND	ND	ND	0.0055	0.0008	0.0010	0.0014	0.0013	0.0006	ND	ND
Cu (mg/L)	0.3	ND	ND	ND	ND	0.0105	0.0022	0.0011	0.0018	0.0006	0.0003	ND	ND
CN (mg/L)	1.0	ND	ND	ND	ND	NMR	NMR	NMR	NMR	NMR	NMR	ND	ND
Pb (mg/L)	0.2	ND	ND	ND	ND	0.0003	0.0011	0.0007	0.0020	0.0003	0.0003	ND	ND
Ni (mg/L)	0.5	ND	ND	ND	ND	0.3322	0.1119	0.1172	0.1100	0.2631	0.2038	ND	ND
Zn (mg/L)	0.5	ND	ND	ND	ND	0.0005	0.0025	0.0035	0.0007	0.0056	0.0010	ND	ND
TSS (mg/L)	15	ND	ND	ND	ND	6.00	5.70	1.00	0.50	1.50	0.50	ND	ND
Ra-226 (Bq/L)	0.37	ND	ND	ND	ND	0.0030	NMR	0.0010	NMR	NMR	0.0030	ND	ND
pH low	≥6.0	ND	ND	ND	ND	8.2	8.0	8.2	7.4	7.4	7.5	ND	ND
pH high	≤9.5	ND	ND	ND	ND	8.2	9.0	8.3	7.5	8.0	7.5	ND	ND
Flow (m ³ /month)	—	ND	ND	ND	ND	12 634	153 206	186 507	180 408	129 800	24 850	ND	ND
Rainbow Trout	Pass	ND	ND	ND	ND	1	1	1	1	1	1	ND	ND
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
<i>Daphnia magna</i>	Pass	ND	ND	ND	ND	1	1	1	1	1	1	ND	ND
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
Comments:													
Notes: ND: No Deposit NMR: No Measurement Required Pass: ≤50% Mortality Fail: >50% Mortality Highlighted data indicate that a monthly effluent quality standard was exceeded for that month. A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement.													

Metal Mining Effluent Regulations (MMER) 2008 Effluent Compliance

Mine/Mill Name	Red Lake Mine												
Operator Name	Goldcorp Inc.												
Product(s)	Gold												
Address	General Delivery, Balmertown, Ontario P0V 1C0												
Effluent Discharge Point	G1												
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.
As (mg/L)	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Cu (mg/L)	0.3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
CN (mg/L)	1.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Pb (mg/L)	0.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ni (mg/L)	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Zn (mg/L)	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
TSS (mg/L)	15	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ra-226 (Bq/L)	0.37	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
pH low	≥6.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
pH high	≤9.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Flow (m ³ /month)	—	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Rainbow Trout	Pass	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
<i>Daphnia magna</i>	Pass	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
Comments:													
Notes: ND: No Deposit NMR: No Measurement Required Pass: ≤50% Mortality Fail: >50% Mortality Highlighted data indicate that a monthly effluent quality standard was exceeded for that month. A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement.													

Metal Mining Effluent Regulations (MMER) 2008 Effluent Compliance

Mine/Mill Name	Red Lake Mine												
Operator Name	Goldcorp Inc.												
Product(s)	Gold												
Address	General Delivery, Balmertown, Ontario P0V 1C0												
Effluent Discharge Point	G2												
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
As (mg/L)	0.5	ND	ND	ND	ND	0.0274	0.0346	0.0353	0.0495	0.0396	0.0312	ND	ND
Cu (mg/L)	0.3	ND	ND	ND	ND	0.0035	0.0033	0.0030	0.0030	0.0033	0.0060	ND	ND
CN (mg/L)	1.0	ND	ND	ND	ND	0.0095	0.0090	0.0120	0.0150	0.0123	0.0170	ND	ND
Pb (mg/L)	0.2	ND	ND	ND	ND	0.0003	0.0003	0.0058	0.0003	0.0006	0.0003	ND	ND
Ni (mg/L)	0.5	ND	ND	ND	ND	0.0250	0.0213	0.0180	0.0193	0.0200	0.0250	ND	ND
Zn (mg/L)	0.5	ND	ND	ND	ND	0.0150	0.0050	0.0050	0.0333	0.0200	0.0400	ND	ND
TSS (mg/L)	15	ND	ND	ND	ND	1.50	2.75	1.00	1.00	2.25	3.00	ND	ND
Ra-226 (Bq/L)	0.37	ND	ND	ND	ND	0.0025	0.0083	0.0080	0.0037	0.0063	0.0025	ND	ND
pH low	≥6.0	ND	ND	ND	ND	6.7	6.8	6.8	6.5	6.3	6.6	ND	ND
pH high	≤9.5	ND	ND	ND	ND	7.0	7.1	6.8	6.8	6.6	6.6	ND	ND
Flow (m ³ /month)	—	ND	ND	ND	ND	108 240	174 060	141 350	273 620	419 800	129 690	ND	ND
Rainbow Trout	Pass	ND	ND	ND	ND	1	1	1	1	1	1	ND	ND
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
<i>Daphnia magna</i>	Pass	ND	ND	ND	ND	1	1	1	1	1	1	ND	ND
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
Comments:													
Notes: ND: No Deposit NMR: No Measurement Required Pass: ≤50% Mortality Fail: >50% Mortality Highlighted data indicate that a monthly effluent quality standard was exceeded for that month. A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement.													

Metal Mining Effluent Regulations (MMER) 2008 Effluent Compliance

Mine/Mill Name	Red Lake Mine												
Operator Name	Goldcorp Inc.												
Product(s)	Gold												
Address	General Delivery, Balmertown, Ontario P0V 1C0												
Effluent Discharge Point	Shaft 3 Mine Water Settling Pond												
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.
As (mg/L)	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Cu (mg/L)	0.3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
CN (mg/L)	1.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Pb (mg/L)	0.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ni (mg/L)	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Zn (mg/L)	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
TSS (mg/L)	15	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ra-226 (Bq/L)	0.37	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
pH low	≥6.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
pH high	≤9.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Flow (m ³ /month)	—	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Rainbow Trout	Pass	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
<i>Daphnia magna</i>	Pass	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
Comments:													
Notes: ND: No Deposit NMR: No Measurement Required Pass: ≤50% Mortality Fail: >50% Mortality Highlighted data indicate that a monthly effluent quality standard was exceeded for that month. A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement.													

Metal Mining Effluent Regulations (MMER) 2008 Effluent Compliance

Mine/Mill Name	Redstone Mine												
Operator Name	Liberty Mines Inc.												
Product(s)	Nickel												
Address	P.O. Box 398, South Porcupine, Ontario P0N 1H0												
Effluent Discharge Point	RSD-2												
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.
As (mg/L)	0.5	0.0038	0.0029	ND	0.0025	0.0014	0.0027	0.0018	0.0017	0.0019	0.0018	0.0032	0.0031
Cu (mg/L)	0.3	0.0010	0.0013	ND	0.0003	0.0015	0.0003	0.0003	0.0003	0.0005	0.0013	0.0010	0.0009
CN (mg/L)	1.0	NMR	NMR	ND	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR
Pb (mg/L)	0.2	0.0040	0.0040	ND	0.0040	0.0040	0.0040	0.0040	0.0040	0.0040	0.0040	0.0005	0.0005
Ni (mg/L)	0.5	0.2278	0.1943	ND	0.2667	0.3163	0.2548	0.1478	0.0973	0.1045	0.0968	0.0721	0.1206
Zn (mg/L)	0.5	0.0023	0.0021	ND	0.0030	0.0038	0.0028	0.0023	0.0022	0.0015	0.0015	0.0005	0.0016
TSS (mg/L)	15	4.22	1.23	ND	4.33	0.83	2.74	1.80	1.58	1.28	2.55	1.00	0.72
Ra-226 (Bq/L)	0.37	0.0050	-	ND	0.0050	0.0050	0.0050	0.0050	0.0050	NMR	0.0050	NMR	NMR
pH low	≥6.0	7.6	7.5	ND	7.7	7.8	7.7	8.0	7.8	7.5	7.7	8.3	8.2
pH high	≤9.5	8.1	7.6	ND	8.0	8.1	8.2	8.2	8.3	8.3	8.6	8.4	8.3
Flow (m ³ /month)	—	29 135	17 982	ND	16 009	25 883	14 206	11 540	10 391	6 421	8 667	3 673	5 009
Rainbow Trout	Pass	2	1	ND	1	1	1	1	1	1	1	1	1
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
<i>Daphnia magna</i>	Pass	2	1	ND	1	1	1	1	1	1	1	1	1
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
Comments:	No radium 226 test result was provided in February. In order to reduce frequency of testing for radium 226, 10 consecutive tests must be conducted. For these tests, the concentration of radium 226 must be less than 0.037 Bq/L.												
Notes:	ND: No Deposit NMR: No Measurement Required Highlighted data indicate that a monthly effluent quality standard was exceeded for that month. A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement.												
	Pass: ≤50% Mortality Fail: >50% Mortality												

Metal Mining Effluent Regulations (MMER) 2008 Effluent Compliance

Mine/Mill Name	Restigouche Mine												
Operator Name	Blue Note Mining Inc.												
Product(s)	Zinc-Lead-Copper-Silver												
Address	9361 Route 180, P.O. Box 26, Bathurst, New Brunswick E2A 3Z1												
Effluent Discharge Point	Mixing Structure Discharge												
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
As (mg/L)	0.5	0.0010	0.0088	0.0200	0.0200	0.0200	0.0200	0.0200	0.0575	0.0163	0.0153	0.0105	0.0010
Cu (mg/L)	0.3	0.0013	0.0090	0.0200	0.0200	0.0200	0.0200	0.0200	0.0105	0.0162	0.0153	0.0105	0.0010
CN (mg/L)	1.0	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR
Pb (mg/L)	0.2	0.0039	0.0024	0.0059	0.0043	0.0021	0.0020	0.0036	0.0014	0.0030	0.0021	0.0014	0.0003
Ni (mg/L)	0.5	0.0033	0.0054	0.0100	0.0078	0.0080	0.0100	0.0100	0.0055	0.0082	0.0078	0.0055	0.0010
Zn (mg/L)	0.5	0.0653	0.0662	0.1053	0.0674	0.0598	0.0553	0.0748	0.0643	0.0850	0.0930	0.1123	0.0320
TSS (mg/L)	15	5.00	3.50	1.25	7.25	1.50	2.00	4.00	1.13	1.60	0.88	1.13	1.00
Ra-226 (Bq/L)	0.37	0.0433	0.0530	0.0900	0.0110	0.0131	0.0488	0.0712	0.0306	0.0460	0.0488	0.0119	0.0049
pH low	≥6.0	7.3	7.0	7.3	7.4	7.5	7.1	7.0	7.6	7.2	7.3	7.2	7.4
pH high	≤9.5	7.7	7.6	7.6	7.5	7.7	7.7	7.8	7.7	7.6	7.5	7.5	7.6
Flow (m ³ /month)	—	22 738	11 205	15 002	190 439	146 958	24 882	39 225	81 771	67 534	47 105	19 878	5 837
Rainbow Trout	Pass	1	1	1	1	1	1	1	1	1	1	1	1
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
<i>Daphnia magna</i>	Pass	1	1	1	1	1	1	1	1	1	1	1	1
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
Comments:	Mine in care and maintenance.												
Notes: ND: No Deposit	NMR: No Measurement Required												
Highlighted data indicate that a monthly effluent quality standard was exceeded for that month.	Pass: ≤50% Mortality												
A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement.	Fail: >50% Mortality												

Metal Mining Effluent Regulations (MMER) 2008 Effluent Compliance

Mine/Mill Name	Rice Lake Gold Mine												
Operator Name	San Gold Corporation												
Product(s)	Gold												
Address	P.O. Box 1000, 63 San Antonio Road, Bissett, Manitoba R0E 0V0												
Effluent Discharge Point	FDPI – End of Pipe												
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.
As (mg/L)	0.5	ND	ND	ND	ND	ND	ND	ND	ND	0.0011	0.0010	0.0009	ND
Cu (mg/L)	0.3	ND	ND	ND	ND	ND	ND	ND	ND	0.0372	0.0513	0.0580	ND
CN (mg/L)	1.0	ND	ND	ND	ND	ND	ND	ND	ND	0.0052	0.0025	0.0010	ND
Pb (mg/L)	0.2	ND	ND	ND	ND	ND	ND	ND	ND	0.0003	0.0003	0.0003	ND
Ni (mg/L)	0.5	ND	ND	ND	ND	ND	ND	ND	ND	0.0036	0.0080	0.0050	ND
Zn (mg/L)	0.5	ND	ND	ND	ND	ND	ND	ND	ND	0.0060	0.0063	0.0050	ND
TSS (mg/L)	15	ND	ND	ND	ND	ND	ND	ND	ND	2.40	4.75	5.00	ND
Ra-226 (Bq/L)	0.37	ND	ND	ND	ND	ND	ND	ND	ND	0.0030	0.0034	0.0025	ND
pH low	≥6.0	ND	ND	ND	ND	ND	ND	ND	ND	8.0	8.2	8.4	ND
pH high	≤9.5	ND	ND	ND	ND	ND	ND	ND	ND	8.3	8.4	8.4	ND
Flow (m ³ /month)	—	ND	ND	ND	ND	ND	ND	ND	ND	234 787	305 601	59 477	ND
Rainbow Trout	Pass	ND	ND	ND	ND	ND	ND	ND	ND	1	4	1	ND
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
<i>Daphnia magna</i>	Pass	ND	ND	ND	ND	ND	ND	ND	ND	1	4	1	ND
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
Comments:	No annual report was submitted. The annual report was completed from the quarterly reports.												
Notes:	ND: No Deposit Highlighted data indicate that a monthly effluent quality standard was exceeded for that month. A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement.												
	NMR: No Measurement Required Pass: ≤50% Mortality Fail: >50% Mortality												

Metal Mining Effluent Regulations (MMER) 2008 Effluent Compliance

Mine/Mill Name	Santoy 7 Mine												
Operator Name	Claude Resources Inc.												
Product(s)	Gold												
Address	P.O. Box 1230, LaRonge, Saskatchewan S0J 1L0												
Effluent Discharge Point	Santoy 7 Settling Pond												
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
As (mg/L)	0.5	0.0021	0.0013	0.0013	0.0018	0.0024	0.0030	0.0028	0.0021	0.0022	0.0031	0.0026	0.0017
Cu (mg/L)	0.3	0.0239	0.0207	0.0060	0.0070	0.0060	0.0050	0.0072	0.0079	0.0073	0.0236	0.0141	0.0128
CN (mg/L)	1.0	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR
Pb (mg/L)	0.2	0.0029	0.0058	0.0015	0.0017	0.0007	0.0003	0.0007	0.0009	0.0008	0.0022	0.0026	0.0018
Ni (mg/L)	0.5	0.0065	0.0042	0.0022	0.0029	0.0030	0.0028	0.0043	0.0044	0.0042	0.0059	0.0048	0.0047
Zn (mg/L)	0.5	0.0350	0.0247	0.0204	0.0170	0.0149	0.0083	0.0248	0.0458	0.0338	0.0353	0.0305	0.0666
TSS (mg/L)	15	48.25	43.00	8.75	14.20	4.25	7.50	4.00	7.75	8.00	13.50	21.50	22.60
Ra-226 (Bq/L)	0.37	0.0175	0.0123	0.0044	0.0060	0.0050	0.0059	0.0180	0.0131	0.0102	0.0060	0.0076	0.0115
pH low	≥6.0	7.8	7.9	7.9	7.4	7.8	8.0	7.5	7.6	7.8	7.6	7.8	7.4
pH high	≤9.5	7.9	8.0	8.1	8.1	8.1	8.3	8.2	8.2	8.1	8.4	8.0	7.9
Flow (m ³ /month)	—	2 594	1 244	2 202	2 524	3 251	3 413	846	902	574	733	3 283	3 188
Rainbow Trout	Pass	-	-	2	1	1	1	-	2	1	1	1	1
Acute Lethality Test	Fail	2	-	-	-	-	-	2	-	-	-	-	-
<i>Daphnia magna</i>	Pass	2	-	2	1	1	1	2	2	1	1	1	1
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
Comments:	No toxicity test results were provided for February.												
Notes:	ND: No Deposit NMR: No Measurement Required Highlighted data indicate that a monthly effluent quality standard was exceeded for that month. A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement.												
	Pass: ≤50% Mortality Fail: >50% Mortality												

Metal Mining Effluent Regulations (MMER) 2008 Effluent Compliance

Mine/Mill Name	Scozinc Mine – Mill												
Operator Name	Acadian Mining Corporation												
Product(s)	Zinc-Lead												
Address	15601 Highway 224, RR 1, Milford Station, Gays River, Nova Scotia B0N 1Y0												
Effluent Discharge Point	Polishing Pond Outlet												
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
As (mg/L)	0.5	0.0200	0.0200	0.0200	0.0200	0.0200	0.0200	0.0200	0.0200	0.0200	0.0200	0.0200	0.0200
Cu (mg/L)	0.3	0.4080	0.1085	0.0650	0.0718	0.0410	0.0300	0.0248	0.0200	0.0200	0.0200	0.0200	0.0200
CN (mg/L)	1.0	0.3360	0.0708	0.0284	0.0198	0.0065	0.0065	0.0094	0.0073	0.0040	0.0052	0.0098	0.0150
Pb (mg/L)	0.2	0.0178	0.0103	0.0094	0.0093	0.0088	0.0075	0.0061	0.0025	0.0025	0.0059	0.0027	0.0054
Ni (mg/L)	0.5	0.0100	0.0100	0.0100	0.0100	0.0130	0.0100	0.0100	0.0100	0.0100	0.0100	0.0100	0.0100
Zn (mg/L)	0.5	0.4900	0.2135	0.1884	0.2625	0.1750	0.1175	0.1006	0.0813	0.0740	0.0870	0.0688	0.1032
TSS (mg/L)	15	1.00	2.00	2.80	0.75	1.75	2.00	1.60	1.13	1.75	9.70	1.75	2.60
Ra-226 (Bq/L)	0.37	NMR	0.0025	NMR	NMR	0.0025	NMR	NMR	0.0006	NMR	0.0025	0.0025	0.0025
pH low	≥6.0	7.3	6.6	6.5	7.5	7.8	7.7	7.5	7.6	7.4	7.6	6.9	7.3
pH high	≤9.5	7.6	7.6	7.9	7.8	7.9	7.9	8.0	7.7	7.6	7.7	7.8	7.6
Flow (m ³ /month)	—	1 826 903	3 511 933	3 267 724	1 727 910	1 879 723	1 396 478	1 343 867	1 833 417	2 011 714	1 655 004	1 727 595	2 063 102
Rainbow Trout	Pass	1	1	1	1	1	1	1	1	1	1	1	1
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
<i>Daphnia magna</i>	Pass	-	1	1	1	1	1	1	1	1	1	1	1
Monitoring Test	Fail	1	-	-	-	-	-	-	-	-	-	-	-
Comments:													
Notes: ND: No Deposit NMR: No Measurement Required Pass: ≤50% Mortality Fail: >50% Mortality Highlighted data indicate that a monthly effluent quality standard was exceeded for that month. A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement.													

Metal Mining Effluent Regulations (MMER) 2008 Effluent Compliance

Mine/Mill Name	Scozinc Mine – Mill												
Operator Name	Acadian Mining Corporation												
Product(s)	Zinc-Lead												
Address	15601 Highway 224, RR 1, Milford Station, Gays River, Nova Scotia B0N 1Y0												
Effluent Discharge Point	Polishing Pond Outlet 2												
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.
As (mg/L)	0.5	-	-	-	-	-	-	-	-	-	-	0.0200	0.0200
Cu (mg/L)	0.3	-	-	-	-	-	-	-	-	-	-	0.0200	0.0200
CN (mg/L)	1.0	-	-	-	-	-	-	-	-	-	-	0.0090	0.0134
Pb (mg/L)	0.2	-	-	-	-	-	-	-	-	-	-	0.0025	0.0086
Ni (mg/L)	0.5	-	-	-	-	-	-	-	-	-	-	0.0100	0.0100
Zn (mg/L)	0.5	-	-	-	-	-	-	-	-	-	-	0.0720	0.0870
TSS (mg/L)	15	-	-	-	-	-	-	-	-	-	-	3.00	3.70
Ra-226 (Bq/L)	0.37	-	-	-	-	-	-	-	-	-	-	-	0.0034
pH low	≥6.0	-	-	-	-	-	-	-	-	-	-	7.3	6.7
pH high	≤9.5	-	-	-	-	-	-	-	-	-	-	7.3	7.7
Flow (m ³ /month)	—	-	-	-	-	-	-	-	-	-	-	1 071 847	7 860 355
Rainbow Trout	Pass	-	-	-	-	-	-	-	-	-	-	1	1
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
<i>Daphnia magna</i>	Pass	-	-	-	-	-	-	-	-	-	-	1	1
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
Comments:	This new final discharge point became subject to the MMER in November 2008. No annual report was submitted. The annual report was completed from the quarterly reports. No radium 226 test results were provided for November.												
Notes: ND: No Deposit	NMR: No Measurement Required												
Highlighted data indicate that a monthly effluent quality standard was exceeded for that month.	Pass: ≤50% Mortality												
A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement.	Fail: >50% Mortality												

Metal Mining Effluent Regulations (MMER) 2008 Effluent Compliance

Mine/Mill Name	Seabee Gold Mine												
Operator Name	Claude Resources Inc.												
Product(s)	Gold												
Address	P.O. Box 1230, LaRonge, Saskatchewan S0J 1L0												
Effluent Discharge Point	Final Discharge Point 1.2												
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.
As (mg/L)	0.5	0.0001	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0001	0.0001
Cu (mg/L)	0.3	0.0072	0.0100	0.0087	0.0130	0.0210	0.0135	0.0130	0.0220	0.0180	0.0165	0.0110	0.0089
CN (mg/L)	1.0	0.0030	0.0170	0.0080	0.0077	0.0040	0.0035	0.0060	0.0070	0.0130	0.0085	0.0140	0.0080
Pb (mg/L)	0.2	0.0003	0.0002	0.0004	0.0007	0.0005	0.0006	0.0003	0.0010	0.0005	0.0005	0.0004	0.0004
Ni (mg/L)	0.5	0.0150	0.0160	0.0150	0.0160	0.0190	0.0122	0.0220	0.0200	0.0220	0.0175	0.0150	0.0100
Zn (mg/L)	0.5	0.0130	0.0086	0.0093	0.0130	0.0110	0.0112	0.0110	0.0150	0.0130	0.0110	0.0110	0.0089
TSS (mg/L)	15	4.00	3.88	4.25	5.20	8.00	8.25	4.00	11.25	11.60	11.00	6.50	9.40
Ra-226 (Bq/L)	0.37	0.0025	NMR	NMR	NMR	NMR	0.0043	NMR	NMR	0.0025	0.0025	NMR	0.0025
pH low	≥6.0	7.7	7.9	7.8	7.8	7.6	7.5	7.0	7.4	7.7	7.8	7.4	7.4
pH high	≤9.5	7.9	8.0	7.9	7.9	7.8	7.9	7.9	7.9	7.8	8.0	7.7	8.0
Flow (m ³ /month)	—	89 909	92 968	99 539	75 856	87 826	86 500	100 000	100 000	100 000	74 281	84 582	80 694
Rainbow Trout	Pass	NMR	1	NMR	NMR	NMR	1	NMR	NMR	1	NMR	NMR	1
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
<i>Daphnia magna</i>	Pass	NMR	1	NMR	NMR	NMR	-	NMR	NMR	1	NMR	NMR	1
Monitoring Test	Fail	-	-	-	-	-	1	-	-	-	-	-	-
Comments:													
Notes: ND: No Deposit NMR: No Measurement Required Pass: ≤50% Mortality Fail: >50% Mortality Highlighted data indicate that a monthly effluent quality standard was exceeded for that month. A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement.													

Metal Mining Effluent Regulations (MMER) 2008 Effluent Compliance

Mine/Mill Name	Seabee Gold Mine												
Operator Name	Claude Resources Inc.												
Product(s)	Gold												
Address	P.O. Box 1230, LaRonge, Saskatchewan S0J 1L0												
Effluent Discharge Point	Final Discharge Point 1.3												
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
As (mg/L)	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Cu (mg/L)	0.3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
CN (mg/L)	1.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Pb (mg/L)	0.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ni (mg/L)	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Zn (mg/L)	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
TSS (mg/L)	15	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ra-226 (Bq/L)	0.37	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
pH low	≥6.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
pH high	≤9.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Flow (m ³ /month)	—	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Rainbow Trout	Pass	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
<i>Daphnia magna</i>	Pass	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
Comments:	No annual report was submitted. The annual report was completed from the quarterly reports.												
Notes:	ND: No Deposit NMR: No Measurement Required Highlighted data indicate that a monthly effluent quality standard was exceeded for that month. A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement.												

Pass: ≤50% Mortality
Fail: >50% Mortality

Metal Mining Effluent Regulations (MMER) 2008 Effluent Compliance

Mine/Mill Name	Seabee Gold Mine												
Operator Name	Claude Resources Inc.												
Product(s)	Gold												
Address	P.O. Box 1230, LaRonge, Saskatchewan S0J 1L0												
Effluent Discharge Point	Final Discharge Point 1.5												
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
As (mg/L)	0.5	ND	ND	ND	ND	ND	0.0011	0.0011	0.0009	0.0009	ND	ND	ND
Cu (mg/L)	0.3	ND	ND	ND	ND	ND	0.0208	0.0081	0.0072	0.0078	ND	ND	ND
CN (mg/L)	1.0	ND	ND	ND	ND	ND	0.0059	0.0108	0.0055	0.0110	ND	ND	ND
Pb (mg/L)	0.2	ND	ND	ND	ND	ND	0.0002	0.0002	0.0002	0.0001	ND	ND	ND
Ni (mg/L)	0.5	ND	ND	ND	ND	ND	0.0128	0.0118	0.0102	0.0103	ND	ND	ND
Zn (mg/L)	0.5	ND	ND	ND	ND	ND	0.0050	0.0051	0.0058	0.0053	ND	ND	ND
TSS (mg/L)	15	ND	ND	ND	ND	ND	1.50	2.20	1.00	1.25	ND	ND	ND
Ra-226 (Bq/L)	0.37	ND	ND	ND	ND	ND	0.0056	0.0045	0.0025	0.0043	ND	ND	ND
pH low	≥6.0	ND	ND	ND	ND	ND	7.5	7.3	7.4	7.5	ND	ND	ND
pH high	≤9.5	ND	ND	ND	ND	ND	7.7	8.2	7.9	7.5	ND	ND	ND
Flow (m ³ /month)	—	ND	ND	ND	ND	ND	40 161	33 451	36 712	22 095	ND	ND	ND
Rainbow Trout	Pass	ND	ND	ND	ND	ND	2	1	1	1	ND	ND	ND
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
<i>Daphnia magna</i>	Pass	ND	ND	ND	ND	ND	2	1	1	1	ND	ND	ND
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
Comments:													
Notes: ND: No Deposit NMR: No Measurement Required Pass: ≤50% Mortality Fail: >50% Mortality Highlighted data indicate that a monthly effluent quality standard was exceeded for that month. A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement.													

Metal Mining Effluent Regulations (MMER) 2008 Effluent Compliance

Mine/Mill Name	Sigma												
Operator Name	Century Mining Corporation												
Product(s)	Gold												
Address	300 3rd Avenue, Val-d'Or, Quebec J9P 4N9												
Effluent Discharge Point	Final Effluent EFF1												
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
As (mg/L)	0.5	0.0015	ND	ND	0.0058	0.0021	0.0004	0.0015	0.0018	0.0011	0.0011	0.0399	ND
Cu (mg/L)	0.3	0.1672	ND	ND	0.2240	0.0506	0.0270	0.0176	0.0240	0.0117	0.0129	0.0111	ND
CN (mg/L)	1.0	0.1170	ND	ND	0.5620	0.0135	0.0185	0.0170	0.0140	0.0135	0.0005	0.0050	ND
Pb (mg/L)	0.2	0.0004	ND	ND	0.0010	0.0017	0.0031	0.0004	0.0004	0.0003	0.0101	0.0003	ND
Ni (mg/L)	0.5	0.0081	ND	ND	0.0116	0.0035	0.0041	0.0035	0.0027	0.0008	0.0025	0.0012	ND
Zn (mg/L)	0.5	0.0020	ND	ND	0.0065	0.0996	0.0005	0.0020	0.0023	0.0005	0.0110	0.0006	ND
TSS (mg/L)	15	10.00	ND	ND	10.00	7.25	1.75	5.00	1.25	4.25	2.00	4.00	ND
Ra-226 (Bq/L)	0.37	-	ND	ND	0.0050	0.0060	0.0010	0.0040	0.0010	0.0050	-	0.0100	ND
pH low	≥6.0	7.5	ND	ND	7.2	7.8	7.9	8.0	8.1	8.0	7.9	7.9	ND
pH high	≤9.5	7.5	ND	ND	8.1	8.0	8.1	8.1	8.2	8.0	7.9	7.9	ND
Flow (m ³ /month)	—	113 040	ND	ND	354 960	285 048	161 605	393 912	355 056	206 847	176 875	40 694	ND
Rainbow Trout	Pass	-	ND	ND	-	4	2	2	2	2	1	1	ND
Acute Lethality Test	Fail	-	-	-	1	-	-	-	-	-	-	-	-
<i>Daphnia magna</i>	Pass	-	ND	ND	-	4	2	2	2	2	1	1	ND
Monitoring Test	Fail	-	-	-	1	-	-	-	-	-	-	-	-
Comments:	No toxicity test results were provided for January. No radium 226 test results were provided for January and October.												
Notes:	ND: No Deposit NMR: No Measurement Required Pass: ≤50% Mortality Fail: >50% Mortality Highlighted data indicate that a monthly effluent quality standard was exceeded for that month. A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement.												

Metal Mining Effluent Regulations (MMER) 2008 Effluent Compliance

Mine/Mill Name	Snow Lake Mill												
Operator Name	Hudson Bay Mining and Smelting Co. Ltd.												
Product(s)	Copper-Zinc-Selenium-Tellurium-Silver												
Address	P.O. Box 1500, Flin Flon, Manitoba R8A 1N9												
Effluent Discharge Point	Anderson Lake Discharge												
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
As (mg/L)	0.5	ND	ND	ND	ND	0.0023	0.0034	0.0019	0.0025	0.0030	0.0023	0.0023	ND
Cu (mg/L)	0.3	ND	ND	ND	ND	0.0048	0.0049	0.0072	0.0076	0.0075	0.0025	0.0052	ND
CN (mg/L)	1.0	ND	ND	ND	ND	NMR	NMR	NMR	NMR	NMR	NMR	NMR	ND
Pb (mg/L)	0.2	ND	ND	ND	ND	0.0035	0.0044	0.0046	0.0051	0.0035	0.0047	0.0130	ND
Ni (mg/L)	0.5	ND	ND	ND	ND	0.0023	0.0038	0.0106	0.0020	0.0010	0.0017	0.0027	ND
Zn (mg/L)	0.5	ND	ND	ND	ND	0.0890	0.0538	0.1188	0.0438	0.0303	0.0747	0.0813	ND
TSS (mg/L)	15	ND	ND	ND	ND	1.33	1.90	1.43	1.03	2.47	2.07	1.12	ND
Ra-226 (Bq/L)	0.37	ND	ND	ND	ND	0.0025	0.0025	0.0070	NMR	0.0025	0.0070	NMR	ND
pH low	≥6.0	ND	ND	ND	ND	7.8	6.9	7.2	7.5	7.9	8.0	8.0	ND
pH high	≤9.5	ND	ND	ND	ND	7.9	8.6	8.2	7.9	8.2	8.2	8.2	ND
Flow (m ³ /month)	—	ND	ND	ND	ND	137 677	242 959	368 217	920 543	564 204	566 903	566 903	ND
Rainbow Trout	Pass	ND	ND	ND	ND	1	1	1	1	1	1	1	ND
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
<i>Daphnia magna</i>	Pass	ND	ND	ND	ND	1	1	1	1	1	1	1	ND
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
Comments:													
Notes: ND: No Deposit NMR: No Measurement Required Pass: ≤50% Mortality Fail: >50% Mortality Highlighted data indicate that a monthly effluent quality standard was exceeded for that month. A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement.													

Metal Mining Effluent Regulations (MMER) 2008 Effluent Compliance

Mine/Mill Name	Stock Mine and Mill Complex / Black Fox Mill Complex												
Operator Name	St. Andrew Goldfields Ltd. / Apollo Gold Corporation												
Product(s)	Gold												
Address	Rural Route 2, Matheson, Ontario P0K 1N0												
Effluent Discharge Point	Direct Tailings Pond Effluent												
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.
As (mg/L)	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Cu (mg/L)	0.3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
CN (mg/L)	1.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Pb (mg/L)	0.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ni (mg/L)	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Zn (mg/L)	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
TSS (mg/L)	15	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ra-226 (Bq/L)	0.37	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
pH low	≥6.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
pH high	≤9.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Flow (m ³ /month)	—	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Rainbow Trout	Pass	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
<i>Daphnia magna</i>	Pass	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
Comments:	As of July 28, 2008 the ownership of Stock Mine and Mill Complex has been transferred from St. Andrew Goldfields Ltd. to Apollo Gold Corporation. The new name of the mine is now Black Fox Mill Complex.												
Notes: ND: No Deposit	NMR: No Measurement Required												
Highlighted data indicate that a monthly effluent quality standard was exceeded for that month.	Pass: ≤50% Mortality												
A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement.	Fail: >50% Mortality												

Metal Mining Effluent Regulations (MMER) 2008 Effluent Compliance

Mine/Mill Name	Stock Mine and Mill Complex / Black Fox Mill Complex												
Operator Name	St Andrew Goldfields Ltd. / Apollo Gold Corporation												
Product(s)	Gold												
Address	Rural Route 2, Matheson, Ontario P0K 1N0												
Effluent Discharge Point	Polishing Pond Effluent												
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.
As (mg/L)	0.5	ND	ND	ND	0.2943	0.1443	0.1503	0.2056	0.2290	0.2195	0.2464	0.1690	ND
Cu (mg/L)	0.3	ND	ND	ND	0.0079	0.0022	0.0041	0.0027	0.0034	0.0029	0.0057	0.0049	ND
CN (mg/L)	1.0	ND	ND	ND	0.0191	0.0025	0.0263	0.0250	0.0233	0.0068	0.0066	0.0148	ND
Pb (mg/L)	0.2	ND	ND	ND	0.0040	0.0040	0.0040	0.0048	0.0005	0.0005	0.0005	0.0005	ND
Ni (mg/L)	0.5	ND	ND	ND	0.0510	0.0324	0.0328	0.0236	0.0200	0.0166	0.1116	0.0362	ND
Zn (mg/L)	0.5	ND	ND	ND	0.0023	0.0017	0.0024	0.0021	0.0066	0.0044	0.0033	0.0016	ND
TSS (mg/L)	15	ND	ND	ND	8.10	5.38	8.18	9.18	3.35	4.25	4.00	2.88	ND
Ra-226 (Bq/L)	0.37	ND	ND	ND	0.0050	-	0.0050	0.0050	-	0.0050	-	-	ND
pH low	≥6.0	ND	ND	ND	7.1	8.0	7.7	7.6	7.5	7.2	7.3	7.5	ND
pH high	≤9.5	ND	ND	ND	7.9	8.1	8.0	8.1	7.6	7.6	7.8	7.9	ND
Flow (m ³ /month)	—	ND	ND	ND	187 359	395 398	173 121	155 878	44 657	30 199	187 416	815 523	ND
Rainbow Trout	Pass	ND	ND	ND	1	1	1	-	1	1	1	1	ND
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
<i>Daphnia magna</i>	Pass	ND	ND	ND	1	1	1	-	1	1	1	1	ND
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
Comments:	As of July 28, 2008 the ownership of Stock Mine and Mill Complex has been transferred from St Andrew Goldfields Ltd. to Apollo Gold Corporation. The new name of the mine is now Black Fox Mill Complex. No toxicity test results were provided for July. No radium 226 test result was provided in May, August, October and November. In order to reduce frequency of testing for radium 226, 10 consecutive tests must be conducted. For these tests, the concentration of radium 226 must be less than 0.037 Bq/L.												
Notes:	ND: No Deposit NMR: No Measurement Required Highlighted data indicate that a monthly effluent quality standard was exceeded for that month. A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement. Pass: ≤50% Mortality Fail: >50% Mortality												

Metal Mining Effluent Regulations (MMER) 2008 Effluent Compliance

Mine/Mill Name	Strathcona Tailings Treatment System												
Operator Name	Xstrata Canada Corporation												
Product(s)	Nickel-Copper-Cobalt-Platinum-Palladium												
Address	Onaping, Ontario POM 2R0												
Effluent Discharge Point	Fecunis RR Bridge												
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
As (mg/L)	0.5	0.0042	0.0024	0.0014	0.0014	0.0018	0.0026	0.0012	0.0021	0.0017	0.0010	0.0017	0.0010
Cu (mg/L)	0.3	0.0266	0.0093	0.0074	0.0680	0.0080	0.0058	0.0052	0.0075	0.0070	0.0088	0.0118	0.0120
CN (mg/L)	1.0	0.0012	0.0010	0.0028	0.0014	0.0010	0.0015	0.0010	0.0010	0.0012	0.0010	0.0010	0.0010
Pb (mg/L)	0.2	0.0006	0.0005	0.0011	0.0009	0.0001	0.0003	0.0002	0.0003	0.0002	0.0039	0.0005	0.0002
Ni (mg/L)	0.5	0.1886	0.1372	0.1416	0.1380	0.0438	0.0358	0.0483	0.0429	0.0370	0.0498	0.0611	0.0659
Zn (mg/L)	0.5	0.0106	0.0105	0.0065	0.0016	0.0008	0.0013	0.0030	0.0030	0.0034	0.0072	0.0066	0.0058
TSS (mg/L)	15	0.90	0.35	0.81	12.14	0.23	0.51	0.82	1.65	1.16	1.78	0.50	0.86
Ra-226 (Bq/L)	0.37	0.0050	NMR	NMR	NMR	0.0050	NMR	0.0050	NMR	NMR	0.0050	NMR	NMR
pH low	≥6.0	7.4	7.4	7.6	7.3	7.6	7.4	7.5	7.1	7.2	7.3	7.2	7.5
pH high	≤9.5	7.6	7.5	7.8	8.1	8.0	7.8	7.6	7.7	7.6	7.4	7.4	7.5
Flow (m ³ /month)	—	2 001 270	2 936 359	1 622 904	3 241 554	4 146 464	1 255 955	1 292 990	1 274 400	1 704 268	791 064	536 362	1 206 166
Rainbow Trout	Pass	1	NMR	NMR	NMR	1	NMR	1	NMR	NMR	1	NMR	NMR
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
<i>Daphnia magna</i>	Pass	1	NMR	NMR	NMR	1	NMR	1	NMR	NMR	1	NMR	NMR
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
Comments:													
Notes: ND: No Deposit NMR: No Measurement Required Pass: ≤50% Mortality Fail: >50% Mortality Highlighted data indicate that a monthly effluent quality standard was exceeded for that month. A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement.													

Metal Mining Effluent Regulations (MMER) 2008 Effluent Compliance

Mine/Mill Name	Tanco Mine												
Operator Name	Tantalum Mining Corporation of Canada Ltd.												
Product(s)	Tantalum-Lithium-Cesium-Rubidium												
Address	P.O. Box 2000, Lac du Bonnet, Manitoba R0E 1A0												
Effluent Discharge Point	East Discharge (Phreatic Flow)												
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.
As (mg/L)	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Cu (mg/L)	0.3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
CN (mg/L)	1.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Pb (mg/L)	0.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ni (mg/L)	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Zn (mg/L)	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
TSS (mg/L)	15	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ra-226 (Bq/L)	0.37	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
pH low	≥6.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
pH high	≤9.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Flow (m ³ /month)	—	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Rainbow Trout	Pass	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
<i>Daphnia magna</i>	Pass	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
Comments:													
Notes: ND: No Deposit NMR: No Measurement Required Pass: ≤50% Mortality Fail: >50% Mortality Highlighted data indicate that a monthly effluent quality standard was exceeded for that month. A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement.													

Metal Mining Effluent Regulations (MMER) 2008 Effluent Compliance

Mine/Mill Name	Tanco Mine												
Operator Name	Tantalum Mining Corporation of Canada Ltd.												
Product(s)	Tantalum-Lithium-Cesium-Rubidium												
Address	P.O. Box 2000, Lac du Bonnet, Manitoba R0E 1A0												
Effluent Discharge Point	West Discharge (Compliance Point)												
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
As (mg/L)	0.5	NMR	0.0034	NMR	0.0041	NMR	NMR	0.0043	NMR	NMR	0.0044	NMR	NMR
Cu (mg/L)	0.3	NMR	0.0023	NMR	0.0022	NMR	NMR	0.0011	NMR	NMR	0.0011	NMR	NMR
CN (mg/L)	1.0	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR
Pb (mg/L)	0.2	NMR	0.0003	NMR	0.0002	NMR	NMR	0.0001	NMR	NMR	0.0002	NMR	NMR
Ni (mg/L)	0.5	NMR	0.0181	NMR	0.0234	NMR	NMR	0.0060	NMR	NMR	0.0073	NMR	NMR
Zn (mg/L)	0.5	NMR	0.0120	NMR	0.0176	NMR	NMR	0.0018	NMR	NMR	0.0029	NMR	NMR
TSS (mg/L)	15	7.80	4.80	3.50	7.00	9.00	10.40	9.20	8.00	9.50	13.50	10.50	8.80
Ra-226 (Bq/L)	0.37	NMR	0.0090	NMR	0.0200	NMR	NMR	0.0080	NMR	NMR	0.0025	NMR	NMR
pH low	≥6.0	6.6	6.6	6.8	6.5	7.0	7.5	7.4	7.8	7.4	7.5	7.7	7.2
pH high	≤9.5	7.1	7.0	7.0	6.8	9.1	9.0	9.3	9.1	8.0	8.0	7.9	7.4
Flow (m ³ /month)	—	212 319	189 793	169 423	280 845	250 356	308 844	379 789	242 994	198 135	261 807	293 753	161 944
Rainbow Trout	Pass	NMR	1	NMR	1	NMR	NMR	1	NMR	NMR	1	NMR	NMR
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
<i>Daphnia magna</i>	Pass	NMR	1	NMR	1	NMR	NMR	1	NMR	NMR	1	NMR	NMR
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
Comments:													
Notes: ND: No Deposit NMR: No Measurement Required Pass: ≤50% Mortality Fail: >50% Mortality Highlighted data indicate that a monthly effluent quality standard was exceeded for that month. A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement.													

Metal Mining Effluent Regulations (MMER) 2008 Effluent Compliance

Mine/Mill Name	Thompson Complex												
Operator Name	Vale Inco Ltd.												
Product(s)	Nickel-Copper												
Address	P.O. Box 5000, Thompson, Manitoba R8N 1P3												
Effluent Discharge Point	Misery Weir												
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
As (mg/L)	0.5	0.0049	0.0046	0.0054	0.0055	0.0042	0.0055	0.0049	0.0054	0.0058	0.0053	0.0190	0.0060
Cu (mg/L)	0.3	0.0050	0.0050	0.0050	0.0050	0.0050	0.0050	0.0050	0.0050	0.0070	0.0066	0.0063	0.0050
CN (mg/L)	1.0	NMR	NMR	0.0010	NMR	0.0010	NMR	0.0010	0.0010	NMR	NMR	0.0010	NMR
Pb (mg/L)	0.2	0.0150	0.0150	0.0150	0.0150	0.0150	0.0150	0.0150	0.0150	0.0150	0.0150	0.0150	0.0150
Ni (mg/L)	0.5	0.4267	0.4583	0.4180	0.3820	0.3325	0.2575	0.1540	0.1750	0.1950	0.2180	0.2925	0.2920
Zn (mg/L)	0.5	0.0050	0.0050	0.0050	0.0050	0.0050	0.0050	0.0050	0.0050	0.0118	0.0050	0.0050	0.0050
TSS (mg/L)	15	2.48	1.40	1.30	1.76	1.70	3.20	1.92	4.85	4.30	4.56	4.80	4.56
Ra-226 (Bq/L)	0.37	NMR	NMR	0.0025	NMR	0.0060	NMR	0.0025	0.0025	NMR	NMR	0.0025	NMR
pH low	≥6.0	9.0	9.2	9.0	8.9	8.4	7.9	8.3	8.3	8.3	8.1	7.9	8.3
pH high	≤9.5	9.5	9.4	9.4	9.1	9.2	8.6	8.6	8.7	8.4	8.3	8.3	8.7
Flow (m ³ /month)	—	3 143 509	2 844 799	3 387 246	3 377 208	4 816 509	3 631 958	4 202 230	4 545 003	4 248 105	4 664 259	4 267 373	3 941 489
Rainbow Trout	Pass	NMR	1	NMR	NMR	1	NMR	NMR	1	NMR	NMR	1	NMR
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
<i>Daphnia magna</i>	Pass	NMR	1	NMR	NMR	1	NMR	NMR	1	NMR	NMR	1	NMR
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
Comments:													
Notes: ND: No Deposit NMR: No Measurement Required Pass: ≤50% Mortality Fail: >50% Mortality Highlighted data indicate that a monthly effluent quality standard was exceeded for that month. A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement.													

Metal Mining Effluent Regulations (MMER) 2008 Effluent Compliance

Mine/Mill Name	Thompson Complex												
Operator Name	Vale Inco Ltd.												
Product(s)	Nickel-Copper												
Address	P.O. Box 5000, Thompson, Manitoba R8N 1P3												
Effluent Discharge Point	Station B												
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
As (mg/L)	0.5	0.0031	0.0032	0.0034	0.0073	0.0117	0.0126	0.0088	0.0117	0.0088	0.0058	0.0358	0.0058
Cu (mg/L)	0.3	0.0050	0.0050	0.0050	0.0050	0.0050	0.0050	0.0050	0.0050	0.0078	0.0294	0.0063	0.0050
CN (mg/L)	1.0	NMR	NMR	0.0010	NMR	0.0010	NMR	0.0010	0.0010	NMR	0.0200	NMR	NMR
Pb (mg/L)	0.2	0.0150	0.0150	0.0150	0.0150	0.0150	0.0150	0.0150	0.0150	0.0150	0.0150	0.0150	0.0150
Ni (mg/L)	0.5	0.3100	0.3150	0.3100	0.3420	0.3350	0.3100	0.1960	0.2050	0.2775	0.2420	0.1507	0.2260
Zn (mg/L)	0.5	0.0080	0.0065	0.0078	0.0050	0.0050	0.0078	0.0050	0.0050	0.0050	0.0064	0.0050	0.0050
TSS (mg/L)	15	1.68	1.20	2.00	3.04	2.50	3.80	3.04	2.80	2.40	3.12	2.80	1.20
Ra-226 (Bq/L)	0.37	NMR	NMR	0.0090	NMR	0.0025	NMR	0.0300	0.0025	NMR	0.0050	NMR	NMR
pH low	≥6.0	6.7	7.0	6.9	6.7	7.1	7.4	7.3	7.3	7.4	6.8	7.2	6.6
pH high	≤9.5	7.1	7.3	7.2	7.2	7.5	8.6	8.1	7.6	7.6	7.8	10.0	7.6
Flow (m ³ /month)	—	841 018	1 058 616	1 191 888	1 353 024	1 526 688	1 458 000	1 880 237	1 493 208	1 062 720	1 001 722	1 036 800	962 150
Rainbow Trout	Pass	NMR	1	NMR	NMR	1	NMR	NMR	1	NMR	1	NMR	NMR
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
<i>Daphnia magna</i>	Pass	NMR	1	NMR	NMR	1	NMR	NMR	1	NMR	1	NMR	NMR
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
Comments:													
Notes: ND: No Deposit NMR: No Measurement Required Pass: ≤50% Mortality Fail: >50% Mortality Highlighted data indicate that a monthly effluent quality standard was exceeded for that month. A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement.													

Metal Mining Effluent Regulations (MMER) 2008 Effluent Compliance

Mine/Mill Name	Tio (Mine)												
Operator Name	QIT-Fer et Titane Inc.												
Product(s)	Iron-Titanium												
Address	951 De l'Escale Boulevard, Havre-Saint-Pierre, Quebec G0G 1P0												
Effluent Discharge Point	Switch South												
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
As (mg/L)	0.5	0.0005	ND	ND	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005
Cu (mg/L)	0.3	0.1200	ND	ND	0.0660	0.0603	0.0306	0.0293	0.0250	0.0534	0.0545	0.0630	0.0328
CN (mg/L)	1.0	NMR	ND	ND	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR
Pb (mg/L)	0.2	0.0005	ND	ND	0.0005	0.0005	0.0008	0.0006	0.0005	0.0005	0.0005	0.0005	0.0005
Ni (mg/L)	0.5	0.7050	ND	ND	0.3000	0.2425	0.2200	0.1600	0.1750	0.2080	0.1650	0.2548	0.2220
Zn (mg/L)	0.5	0.0855	ND	ND	0.0635	0.0453	0.0278	0.0238	0.0150	0.0374	0.0440	0.0520	0.0366
TSS (mg/L)	15	1.75	ND	ND	6.00	9.25	2.90	2.38	2.75	12.10	6.00	15.00	5.60
Ra-226 (Bq/L)	0.37	-	ND	ND	-	-	-	NMR	0.0025	NMR	0.0010	NMR	NMR
pH low	≥6.0	7.4	ND	ND	7.1	6.8	7.4	7.2	7.4	7.3	7.1	7.0	7.1
pH high	≤9.5	7.5	ND	ND	7.1	7.5	7.7	7.6	7.6	7.6	7.6	7.4	7.4
Flow (m ³ /month)	—	98	ND	ND	111 402	86 616	7 700	10 263	5 282	20 423	25 338	28 393	9 109
Rainbow Trout	Pass	-	ND	ND	1	1	1	1	1	1	1	1	1
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
<i>Daphnia magna</i>	Pass	-	ND	ND	1	1	1	1	1	1	1	1	1
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
Comments:	No toxicity test results were provided for January. No radium 226 test results were provided for the first and second quarters.												
Notes:	ND: No Deposit NMR: No Measurement Required Highlighted data indicate that a monthly effluent quality standard was exceeded for that month. A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement.												
	Pass: ≤50% Mortality Fail: >50% Mortality												

Metal Mining Effluent Regulations (MMER) 2008 Effluent Compliance

Mine/Mill Name	Tio (Mine)												
Operator Name	QIT-Fer et Titane Inc.												
Product(s)	Iron-Titanium												
Address	951 De l'Escale Boulevard, Havre-Saint-Pierre, Quebec G0G 1P0												
Effluent Discharge Point	ECLAC168												
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
As (mg/L)	0.5	-	-	-	-	-	-	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005
Cu (mg/L)	0.3	-	-	-	-	-	-	0.0023	0.0013	0.0044	0.0028	0.0038	0.0020
CN (mg/L)	1.0	-	-	-	-	-	-	NMR	NMR	NMR	NMR	NMR	NMR
Pb (mg/L)	0.2	-	-	-	-	-	-	0.0005	0.0009	0.0005	0.0005	0.0005	0.0005
Ni (mg/L)	0.5	-	-	-	-	-	-	0.3315	0.4725	0.4520	0.4900	0.4150	0.5400
Zn (mg/L)	0.5	-	-	-	-	-	-	0.0248	0.0410	0.0346	0.0503	0.0445	0.0420
TSS (mg/L)	15	-	-	-	-	-	-	2.63	7.38	24.60	1.00	0.88	0.50
Ra-226 (Bq/L)	0.37	-	-	-	-	-	-	-	0.0025	-	0.0010	-	-
pH low	≥6.0	-	-	-	-	-	-	7.0	6.8	6.5	6.7	6.7	6.8
pH high	≤9.5	-	-	-	-	-	-	7.3	7.1	7.0	7.0	6.8	6.8
Flow (m ³ /month)	—	-	-	-	-	-	-	16 759	13 987	23 256	17 465	16 380	792
Rainbow Trout	Pass	-	-	-	-	-	-	1	1	1	1	1	-
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
<i>Daphnia magna</i>	Pass	-	-	-	-	-	-	1	1	1	1	1	-
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
Comments:	This new final discharge point became subject to the MMER in July 2008. The annual report was submitted to Environment Canada Regional Office. No toxicity test results were provided for December. No radium 226 test results were provided for July, September, November and December.												
Notes: ND: No Deposit	NMR: No Measurement Required												
Highlighted data indicate that a monthly effluent quality standard was exceeded for that month.	Pass: ≤50% Mortality												
A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement.	Fail: >50% Mortality												

Metal Mining Effluent Regulations (MMER) 2008 Effluent Compliance

Mine/Mill Name	Tio (Mine)												
Operator Name	QIT-Fer et Titane Inc.												
Product(s)	Iron-Titanium												
Address	951 De l'Escale Boulevard, Havre-Saint-Pierre, Quebec G0G 1P0												
Effluent Discharge Point	Lake 211.4												
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
As (mg/L)	0.5	ND	ND	ND	ND	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005
Cu (mg/L)	0.3	ND	ND	ND	ND	0.0125	0.0136	0.0173	0.0118	0.0142	0.0133	0.0165	0.0157
CN (mg/L)	1.0	ND	ND	ND	ND	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR
Pb (mg/L)	0.2	ND	ND	ND	ND	0.0005	0.0008	0.0008	0.0005	0.0005	0.0005	0.0005	0.0005
Ni (mg/L)	0.5	ND	ND	ND	ND	0.0770	0.2120	0.1650	0.2150	0.1820	0.2150	0.2113	0.2767
Zn (mg/L)	0.5	ND	ND	ND	ND	0.0180	0.0236	0.0235	0.0158	0.0310	0.0573	0.0680	0.0610
TSS (mg/L)	15	ND	ND	ND	ND	1.00	1.00	1.00	1.13	1.10	0.50	0.50	6.00
Ra-226 (Bq/L)	0.37	ND	ND	ND	ND	-	-	NMR	0.0025	NMR	0.0010	NMR	NMR
pH low	≥6.0	ND	ND	ND	ND	6.1	6.9	6.6	6.8	6.4	6.6	6.4	3.7
pH high	≤9.5	ND	ND	ND	ND	6.6	7.1	7.0	7.1	7.0	6.9	6.7	6.6
Flow (m ³ /month)	—	ND	ND	ND	ND	52 145	16 888	16 926	13 723	12 588	45 031	27 338	5 154
Rainbow Trout	Pass	ND	ND	ND	ND	1	1	1	1	1	1	1	-
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
<i>Daphnia magna</i>	Pass	ND	ND	ND	ND	1	1	1	1	1	1	1	-
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-

Comments: The annual report was submitted to Environment Canada Regional Office. No toxicity test results were provided for December. No radium 226 test result was provided for the second quarter.

Notes: ND: No Deposit NMR: No Measurement Required Pass: ≤50% Mortality Fail: >50% Mortality
 Highlighted data indicate that a monthly effluent quality standard was exceeded for that month.
 A "Pass" for the *Daphnia magna* monitoring test is not a requirement.

Metal Mining Effluent Regulations (MMER) 2008 Effluent Compliance

Mine/Mill Name	Tio (Mine)												
Operator Name	QIT-Fer et Titane Inc.												
Product(s)	Iron-Titanium												
Address	951 De l'Escale Boulevard, Havre-Saint-Pierre, Quebec G0G 1P0												
Effluent Discharge Point	Grondin Effluent (Formerly Grondin Lake)												
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.
As (mg/L)	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Cu (mg/L)	0.3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
CN (mg/L)	1.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Pb (mg/L)	0.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ni (mg/L)	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Zn (mg/L)	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
TSS (mg/L)	15	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ra-226 (Bq/L)	0.37	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
pH low	≥6.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
pH high	≤9.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Flow (m ³ /month)	—	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Rainbow Trout	Pass	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
<i>Daphnia magna</i>	Pass	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
Comments:	The annual report was submitted to Environment Canada Regional Office.												
Notes: ND: No Deposit	NMR: No Measurement Required												
Highlighted data indicate that a monthly effluent quality standard was exceeded for that month.	Pass: ≤50% Mortality												
A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement.	Fail: >50% Mortality												

Metal Mining Effluent Regulations (MMER) 2008 Effluent Compliance

Mine/Mill Name	Tio (Mine)												
Operator Name	QIT-Fer et Titane Inc.												
Product(s)	Iron-Titanium												
Address	951 De l'Escale Boulevard, Havre-Saint-Pierre, Quebec G0G 1P0												
Effluent Discharge Point	Resurgence Leo												
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.
As (mg/L)	0.5	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005
Cu (mg/L)	0.3	0.0182	0.0190	0.0164	0.0254	0.0178	0.0224	0.0203	0.0193	0.0192	0.0143	0.0148	0.0162
CN (mg/L)	1.0	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR
Pb (mg/L)	0.2	0.0005	0.0005	0.0005	0.0005	0.0005	0.0007	0.0005	0.0009	0.0005	0.0005	0.0005	0.0005
Ni (mg/L)	0.5	0.9560	0.7400	0.6800	0.4660	0.4025	0.4500	0.4300	0.5350	0.5540	0.4150	0.4075	0.7340
Zn (mg/L)	0.5	0.0586	0.0488	0.0485	0.0264	0.0303	0.0274	0.0298	0.0388	0.0536	0.0475	0.4935	0.0498
TSS (mg/L)	15	2.00	0.63	0.50	0.60	0.63	0.60	0.50	0.50	0.50	0.50	0.50	1.30
Ra-226 (Bq/L)	0.37	NMR	0.0025	NMR	0.0025	NMR	NMR	NMR	0.0025	NMR	0.0010	NMR	NMR
pH low	≥6.0	7.1	7.3	7.5	7.5	7.2	7.0	7.2	7.3	7.2	7.3	7.2	7.3
pH high	≤9.5	7.6	7.6	7.6	7.6	7.7	7.7	7.6	7.4	7.4	7.5	7.6	7.6
Flow (m ³ /month)	—	50 925	29 159	48 858	241 024	326 240	120 031	165 707	148 186	163 088	156 456	250 033	111 527
Rainbow Trout	Pass	1	1	1	1	1	1	1	1	1	1	1	1
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
<i>Daphnia magna</i>	Pass	1	-	1	1	1	1	1	1	1	1	1	1
Monitoring Test	Fail	-	1	-	-	-	-	-	-	-	-	-	-
Comments:													
Notes: ND: No Deposit NMR: No Measurement Required Pass: ≤50% Mortality Fail: >50% Mortality Highlighted data indicate that a monthly effluent quality standard was exceeded for that month. A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement.													

Metal Mining Effluent Regulations (MMER) 2008 Effluent Compliance

Mine/Mill Name	Totten Mine												
Operator Name	Vale Inco Ltd.												
Product(s)	Nickel-Copper and Precious Metals												
Address	6 C. Johnson Road, Worthington, Ontario P0M3H0												
Effluent Discharge Point	Totten Discharge												
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
As (mg/L)	0.5	0.0010	0.0010	0.0010	0.0010	0.0010	0.0010	0.0010	0.0010	0.0010	0.0010	0.0010	0.0010
Cu (mg/L)	0.3	0.0020	0.0010	0.0015	0.0010	0.0010	0.0010	0.0014	0.0010	0.0093	0.0010	0.0010	0.0010
CN (mg/L)	1.0	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR
Pb (mg/L)	0.2	0.0150	0.0150	0.0150	0.0150	0.0150	0.0150	0.0150	0.0150	0.0188	0.0150	0.0150	0.0150
Ni (mg/L)	0.5	0.0750	0.0528	0.0628	0.0504	0.0227	0.0213	0.0200	0.0118	0.0395	0.0182	0.0227	0.0200
Zn (mg/L)	0.5	0.0142	0.0120	0.0063	0.0116	0.0050	0.0065	0.0094	0.0065	0.0050	0.0050	0.0050	0.0050
TSS (mg/L)	15	7.84	8.30	7.50	7.52	3.33	1.90	1.72	2.20	1.00	1.00	3.07	5.00
Ra-226 (Bq/L)	0.37	0.0094	0.0065	0.0095	0.0090	NMR	NMR	0.0010	0.0010	NMR	0.0030	NMR	NMR
pH low	≥6.0	6.8	6.3	6.4	6.4	7.3	7.4	7.4	7.2	7.2	7.4	7.4	7.0
pH high	≤9.5	6.9	6.7	6.8	7.3	7.5	7.6	7.8	7.6	7.5	7.6	7.6	7.0
Flow (m ³ /month)	—	79 443	78 512	131 929	141 510	32 580	36 570	19 304	64 857	46 357	30 537	21 551	21 110
Rainbow Trout	Pass	1	1	1	1	1	1	1	1	1	1	1	NMR
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
<i>Daphnia magna</i>	Pass	1	1	1	1	1	1	1	1	1	1	1	NMR
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
Comments:													
Notes: ND: No Deposit NMR: No Measurement Required Pass: ≤50% Mortality Fail: >50% Mortality Highlighted data indicate that a monthly effluent quality standard was exceeded for that month. A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement.													

Metal Mining Effluent Regulations (MMER) 2008 Effluent Compliance

Mine/Mill Name	Troilus												
Operator Name	Corporation minière Inmet												
Product(s)	Gold-Copper												
Address	P.O. Box 8700, Chibougamau, Quebec G8P 3A9												
Effluent Discharge Point	BS-1												
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.
As (mg/L)	0.5	0.0012	0.0011	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Cu (mg/L)	0.3	0.0056	0.0091	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
CN (mg/L)	1.0	NMR	NMR	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Pb (mg/L)	0.2	0.0022	0.0017	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ni (mg/L)	0.5	0.0112	0.0124	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Zn (mg/L)	0.5	0.0030	0.0055	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
TSS (mg/L)	15	6.00	9.25	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ra-226 (Bq/L)	0.37	0.0310	0.0360	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
pH low	≥6.0	7.8	7.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
pH high	≤9.5	7.9	8.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Flow (m ³ /month)	—	29 568	160 608	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Rainbow Trout	Pass	-	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
<i>Daphnia magna</i>	Pass	-	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
Comments:	No toxicity test results were provided for January.												
Notes:	ND: No Deposit NMR: No Measurement Required Highlighted data indicate that a monthly effluent quality standard was exceeded for that month. A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement.												
	Pass: ≤50% Mortality Fail: >50% Mortality												

Metal Mining Effluent Regulations (MMER) 2008 Effluent Compliance

Mine/Mill Name	Troilus												
Operator Name	Corporation minière Inmet												
Product(s)	Gold-Copper												
Address	P.O. Box 8700, Chibougamau, Quebec G8P 3A9												
Effluent Discharge Point	BS-2												
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.
As (mg/L)	0.5	NMR	NMR	0.0025	NMR	NMR	0.0021	0.0005	ND	ND	ND	ND	ND
Cu (mg/L)	0.3	NMR	NMR	0.0083	NMR	NMR	0.0071	0.0382	ND	ND	ND	ND	ND
CN (mg/L)	1.0	NMR	NMR	0.0180	NMR	NMR	0.0530	0.0070	ND	ND	ND	ND	ND
Pb (mg/L)	0.2	NMR	NMR	0.0021	NMR	NMR	0.0003	0.0020	ND	ND	ND	ND	ND
Ni (mg/L)	0.5	NMR	NMR	0.0156	NMR	NMR	0.0139	0.0098	ND	ND	ND	ND	ND
Zn (mg/L)	0.5	0.0568	0.0695	0.0648	0.0710	0.0638	0.0638	0.0530	ND	ND	ND	ND	ND
TSS (mg/L)	15	16.00	7.50	5.50	17.00	7.00	5.10	16.00	ND	ND	ND	ND	ND
Ra-226 (Bq/L)	0.37	0.0183	0.0140	0.0130	0.0138	0.0116	0.0152	0.0080	ND	ND	ND	ND	ND
pH low	≥6.0	7.8	7.9	7.8	7.0	7.8	7.8	7.2	ND	ND	ND	ND	ND
pH high	≤9.5	7.9	7.9	8.0	7.8	8.0	8.0	7.2	ND	ND	ND	ND	ND
Flow (m ³ /month)	—	267 911	137 145	131 505	320 995	318 432	309 530	31 456	ND	ND	ND	ND	ND
Rainbow Trout	Pass	NMR	NMR	1	NMR	NMR	1	-	ND	ND	ND	ND	ND
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
<i>Daphnia magna</i>	Pass	NMR	NMR	1	NMR	NMR	1	-	ND	ND	ND	ND	ND
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
Comments:	No toxicity test results were provided for July.												
Notes:	ND: No Deposit Highlighted data indicate that a monthly effluent quality standard was exceeded for that month. A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement.												
	NMR: No Measurement Required Pass: ≤50% Mortality Fail: >50% Mortality												

Metal Mining Effluent Regulations (MMER) 2008 Effluent Compliance

Mine/Mill Name	Troilus												
Operator Name	Corporation minière Inmet												
Product(s)	Gold-Copper												
Address	P.O. Box 8700, Chibougamau, Quebec G8P 3A9												
Effluent Discharge Point	PR-1												
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
As (mg/L)	0.5	NMR	NMR	0.0003	NMR	NMR	0.0008	0.0007	0.0003	NMR	0.0003	NMR	NMR
Cu (mg/L)	0.3	NMR	NMR	0.0076	NMR	NMR	0.0043	0.0040	0.0021	NMR	0.0025	NMR	NMR
CN (mg/L)	1.0	0.0054	0.0058	0.0150	0.0115	0.0056	0.0154	0.0075	0.0056	0.0113	0.0040	0.0031	0.0025
Pb (mg/L)	0.2	NMR	NMR	0.0003	NMR	NMR	0.0003	0.0005	0.0003	NMR	0.0003	NMR	NMR
Ni (mg/L)	0.5	NMR	NMR	0.0067	NMR	NMR	0.0053	0.0073	0.0040	NMR	0.0019	NMR	NMR
Zn (mg/L)	0.5	0.0056	0.0096	0.0048	0.0063	0.0063	0.0026	0.0051	0.0050	0.0110	0.0078	0.0055	0.0033
TSS (mg/L)	15	4.00	7.25	5.00	10.00	6.60	3.00	1.25	4.00	3.25	1.30	4.25	5.20
Ra-226 (Bq/L)	0.37	NMR	NMR	0.0010	NMR	NMR	0.0010	0.0010	0.0010	NMR	0.0170	NMR	NMR
pH low	≥6.0	6.8	6.8	6.3	6.3	6.5	6.7	6.7	7.3	7.3	7.2	6.7	6.3
pH high	≤9.5	7.8	6.9	6.5	7.2	7.1	7.0	7.2	7.3	7.6	8.0	7.5	7.2
Flow (m ³ /month)	—	14 880	13 920	348 969	702 848	718 021	790 341	936 519	444 500	14 400	14 880	292 492	297 010
Rainbow Trout	Pass	NMR	NMR	1	NMR	NMR	1	NMR	1	NMR	1	NMR	NMR
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
<i>Daphnia magna</i>	Pass	NMR	NMR	1	NMR	NMR	1	NMR	1	NMR	1	NMR	NMR
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
Comments:													
Notes: ND: No Deposit NMR: No Measurement Required Pass: ≤50% Mortality Fail: >50% Mortality Highlighted data indicate that a monthly effluent quality standard was exceeded for that month. A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement.													

Metal Mining Effluent Regulations (MMER) 2008 Effluent Compliance

Mine/Mill Name	Troilus												
Operator Name	Corporation minière Inmet												
Product(s)	Gold-Copper												
Address	P.O. Box 8700, Chibougamau, Quebec G8P 3A9												
Effluent Discharge Point	PR-2												
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
As (mg/L)	0.5	NMR	NMR	0.0003	NMR	NMR	0.0003	NMR	0.0003	NMR	0.0003	NMR	NMR
Cu (mg/L)	0.3	NMR	NMR	0.0030	NMR	NMR	0.0024	NMR	0.0003	NMR	0.0026	NMR	NMR
CN (mg/L)	1.0	NMR	NMR	NMR	NMR	NMR	0.0070	NMR	0.0070	NMR	0.0025	NMR	NMR
Pb (mg/L)	0.2	NMR	NMR	0.0003	NMR	NMR	0.0003	NMR	0.0003	NMR	0.0003	NMR	NMR
Ni (mg/L)	0.5	NMR	NMR	0.0038	NMR	NMR	0.0042	NMR	0.0020	NMR	0.0036	NMR	NMR
Zn (mg/L)	0.5	NMR	NMR	0.0110	NMR	NMR	0.0005	NMR	0.0005	NMR	0.0070	NMR	NMR
TSS (mg/L)	15	4.00	4.00	5.25	4.75	2.70	5.70	2.38	6.50	4.38	4.40	4.50	6.70
Ra-226 (Bq/L)	0.37	0.0508	0.0555	0.0535	0.0408	0.0412	0.0434	0.0380	0.0398	0.0430	0.0452	0.0490	0.0426
pH low	≥6.0	6.8	6.9	6.9	6.9	6.9	7.0	7.0	7.2	7.2	7.1	7.2	6.8
pH high	≤9.5	7.0	7.0	7.2	7.1	7.2	7.7	7.3	7.4	7.5	7.5	7.5	7.2
Flow (m ³ /month)	—	55 800	59 160	65 100	68 850	74 251	71 885	72 540	68 187	63 567	82 182	820 008	84 228
Rainbow Trout	Pass	NMR	NMR	1	NMR	NMR	1	NMR	1	NMR	1	NMR	NMR
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
<i>Daphnia magna</i>	Pass	NMR	NMR	1	NMR	NMR	1	NMR	1	NMR	1	NMR	NMR
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
Comments:													
Notes: ND: No Deposit NMR: No Measurement Required Pass: ≤50% Mortality Fail: >50% Mortality Highlighted data indicate that a monthly effluent quality standard was exceeded for that month. A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement.													

Metal Mining Effluent Regulations (MMER) 2008 Effluent Compliance

Mine/Mill Name	Troilus												
Operator Name	Corporation minière Inmet												
Product(s)	Gold-Copper												
Address	P.O. Box 8700, Chibougamau, Quebec G8P 3A9												
Effluent Discharge Point	PR-5												
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
As (mg/L)	0.5	-	-	ND	NMR	NMR	0.0003	NMR	0.0003	NMR	0.0003	NMR	NMR
Cu (mg/L)	0.3	-	-	ND	NMR	NMR	0.0052	NMR	0.0011	NMR	0.0038	NMR	NMR
CN (mg/L)	1.0	NMR	NMR	ND	NMR	NMR	0.0025	NMR	0.0070	NMR	0.0025	NMR	NMR
Pb (mg/L)	0.2	-	-	ND	NMR	NMR	0.0003	NMR	0.0003	NMR	0.0003	NMR	NMR
Ni (mg/L)	0.5	-	-	ND	NMR	NMR	0.0018	NMR	0.0016	NMR	0.0033	NMR	NMR
Zn (mg/L)	0.5	-	-	ND	NMR	NMR	0.0080	NMR	0.0005	NMR	0.0020	NMR	NMR
TSS (mg/L)	15	5.50	5.25	ND	5.50	2.70	9.30	3.38	2.75	3.75	4.20	5.00	4.50
Ra-226 (Bq/L)	0.37	0.0273	0.0263	ND	0.0270	0.0244	0.0252	0.0283	0.0340	0.0358	0.0346	0.0288	0.0416
pH low	≥6.0	6.9	7.0	ND	7.0	7.0	7.2	7.1	7.3	7.3	7.1	7.1	6.8
pH high	≤9.5	7.1	7.1	ND	7.1	7.4	7.5	7.4	7.6	7.5	7.4	7.4	7.2
Flow (m ³ /month)	—	14 508	27 492	ND	7 800	22 097	21 312	24 031	18 302	17 712	22 171	21 679	20 683
Rainbow Trout	Pass	-	-	ND	NMR	NMR	1	NMR	1	NMR	1	NMR	NMR
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
<i>Daphnia magna</i>	Pass	-	-	ND	NMR	NMR	1	NMR	1	NMR	1	NMR	NMR
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
Comments:	Test results for As, Cu, Pb, Ni, Zn and toxicity were not provided for the first quarter.												
Notes:	ND: No Deposit NMR: No Measurement Required Highlighted data indicate that a monthly effluent quality standard was exceeded for that month. A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement.												
	Pass: ≤50% Mortality Fail: >50% Mortality												

Metal Mining Effluent Regulations (MMER) 2008 Effluent Compliance

Mine/Mill Name	Troilus												
Operator Name	Corporation minière Inmet												
Product(s)	Gold-Copper												
Address	P.O. Box 8700, Chibougamau, Quebec G8P 3A9												
Effluent Discharge Point	PR-6												
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
As (mg/L)	0.5	NMR	NMR	0.0005	NMR	NMR	0.0003	NMR	0.0003	NMR	0.0003	NMR	NMR
Cu (mg/L)	0.3	NMR	NMR	0.0038	NMR	NMR	0.0029	NMR	0.0003	NMR	0.0034	NMR	NMR
CN (mg/L)	1.0	NMR	NMR	NMR	NMR	NMR	0.0070	NMR	0.0110	NMR	0.0038	NMR	NMR
Pb (mg/L)	0.2	NMR	NMR	0.0003	NMR	NMR	0.0003	NMR	0.0003	NMR	0.0003	NMR	NMR
Ni (mg/L)	0.5	NMR	NMR	0.0033	NMR	NMR	0.0023	NMR	0.0012	NMR	0.0035	NMR	NMR
Zn (mg/L)	0.5	NMR	NMR	0.0120	NMR	NMR	0.0010	NMR	0.0005	NMR	0.0255	NMR	NMR
TSS (mg/L)	15	6.50	3.75	3.50	5.75	3.30	8.50	2.13	2.63	4.63	3.60	4.67	3.10
Ra-226 (Bq/L)	0.37	0.0388	0.0370	0.0375	0.0435	0.0348	0.0354	0.0368	0.0348	0.0395	0.0468	0.0490	0.0480
pH low	≥6.0	6.9	7.0	7.0	6.9	7.0	7.0	7.0	7.2	7.2	7.1	7.2	6.9
pH high	≤9.5	7.1	7.1	7.2	7.2	7.2	7.5	7.3	7.5	7.5	7.5	7.5	7.3
Flow (m ³ /month)	—	4 836	8 526	8 928	8 586	7 291	8 021	8 630	6 622	5 526	7 663	6 941	8 080
Rainbow Trout	Pass	NMR	NMR	1	NMR	NMR	1	NMR	1	NMR	1	NMR	NMR
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
<i>Daphnia magna</i>	Pass	NMR	NMR	1	NMR	NMR	1	NMR	1	NMR	1	NMR	NMR
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
Comments:													
Notes: ND: No Deposit NMR: No Measurement Required Pass: ≤50% Mortality Fail: >50% Mortality Highlighted data indicate that a monthly effluent quality standard was exceeded for that month. A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement.													

Metal Mining Effluent Regulations (MMER) 2008 Effluent Compliance

Mine/Mill Name	Troilus												
Operator Name	Corporation minière Inmet												
Product(s)	Gold-Copper												
Address	P.O. Box 8700, Chibougamau, Quebec G8P 3A9												
Effluent Discharge Point	PR-7												
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
As (mg/L)	0.5	NMR	NMR	0.0003	NMR	NMR	0.0003	NMR	0.0003	NMR	0.0003	NMR	NMR
Cu (mg/L)	0.3	NMR	NMR	0.0029	NMR	NMR	0.0018	NMR	0.0003	NMR	0.0003	NMR	NMR
CN (mg/L)	1.0	NMR	NMR	NMR	NMR	NMR	0.0070	NMR	0.0080	NMR	0.0500	NMR	NMR
Pb (mg/L)	0.2	NMR	NMR	0.0013	NMR	NMR	0.0003	NMR	0.0003	NMR	0.0003	NMR	NMR
Ni (mg/L)	0.5	NMR	NMR	0.0087	NMR	NMR	0.0083	NMR	0.0092	NMR	0.0067	NMR	NMR
Zn (mg/L)	0.5	NMR	NMR	0.0050	NMR	NMR	0.0020	NMR	0.0005	NMR	0.0005	NMR	NMR
TSS (mg/L)	15	13.50	10.50	14.75	15.25	10.20	17.00	17.25	18.25	20.00	18.00	6.13	5.30
Ra-226 (Bq/L)	0.37	0.0853	0.0983	0.0880	0.0845	0.0764	0.0940	0.0815	0.0865	0.0858	0.4304	0.0835	0.0822
pH low	≥6.0	6.5	6.5	6.5	6.4	6.4	6.3	6.5	6.7	6.6	6.5	6.7	6.5
pH high	≤9.5	6.8	6.7	6.6	6.7	6.6	6.9	6.6	7.1	6.9	7.0	7.2	6.8
Flow (m ³ /month)	—	4 464	4 176	4 390	5 256	4 315	4 939	4 613	4 241	4 194	4 568	4 378	4 613
Rainbow Trout	Pass	NMR	NMR	1	NMR	NMR	1	NMR	1	NMR	1	NMR	NMR
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
<i>Daphnia magna</i>	Pass	NMR	NMR	1	NMR	NMR	1	NMR	1	NMR	1	NMR	NMR
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
Comments:													
Notes: ND: No Deposit NMR: No Measurement Required Pass: ≤50% Mortality Fail: >50% Mortality Highlighted data indicate that a monthly effluent quality standard was exceeded for that month. A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement.													

Metal Mining Effluent Regulations (MMER) 2008 Effluent Compliance

Mine/Mill Name	Trout Lake Mine												
Operator Name	Hudson Bay Mining and Smelting Co. Ltd.												
Product(s)	Copper-Zinc-Gold-Silver												
Address	P.O. Box 1500, Flin Flon, Manitoba R8A 1N9												
Effluent Discharge Point	Trout Lake Surface Sump Discharge												
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
As (mg/L)	0.5	0.0159	0.0018	0.0020	0.0022	0.0023	0.0030	0.0007	0.0013	0.0018	0.0023	0.0020	0.0022
Cu (mg/L)	0.3	0.0265	0.0249	0.0245	0.0406	0.0375	0.0590	0.0276	0.0208	0.0170	0.0663	0.0323	0.0338
CN (mg/L)	1.0	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR
Pb (mg/L)	0.2	0.0390	0.0160	0.0118	0.0089	0.0084	0.0140	0.0109	0.0199	0.0097	0.0195	0.0295	0.0190
Ni (mg/L)	0.5	0.0228	0.0058	0.0063	0.0060	0.0048	0.0100	0.0097	0.0078	0.0102	0.0088	0.0113	0.0098
Zn (mg/L)	0.5	0.2550	0.2490	0.1708	0.1197	0.0530	0.2390	0.0382	0.0405	0.0266	0.0305	0.0590	0.0548
TSS (mg/L)	15	3.23	2.24	2.78	1.31	1.64	3.60	1.60	2.58	1.87	1.48	1.21	0.80
Ra-226 (Bq/L)	0.37	0.2000	0.1475	0.0775	0.0760	0.0600	0.1500	0.0750	0.0550	0.0720	0.0650	0.0500	0.0540
pH low	≥6.0	7.7	8.3	8.4	8.1	7.4	7.4	8.2	8.1	7.9	7.5	6.6	6.6
pH high	≤9.5	8.4	8.4	8.6	8.6	8.4	7.4	8.4	8.2	8.1	8.4	7.3	8.0
Flow (m ³ /month)	—	24 200	21 400	22 100	27 800	30 400	4 200	6 000	31 000	29 500	25 300	19 100	20 000
Rainbow Trout	Pass	1	NMR	NMR	1	NMR	NMR	NMR	1	NMR	1	NMR	NMR
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
<i>Daphnia magna</i>	Pass	-	NMR	NMR	-	NMR	NMR	NMR	-	NMR	-	NMR	NMR
Monitoring Test	Fail	1	-	-	1	-	-	-	1	-	1	-	-
Comments:													
Notes: ND: No Deposit NMR: No Measurement Required Pass: ≤50% Mortality Fail: >50% Mortality Highlighted data indicate that a monthly effluent quality standard was exceeded for that month. A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement.													

Metal Mining Effluent Regulations (MMER) 2008 Effluent Compliance

Mine/Mill Name	Voisey's Bay Mine – Mill												
Operator Name	Vale Inco Ltd.												
Product(s)	Nickel-Copper-Cobalt												
Address	Suite 700, Baine Johnston Centre, 10 Fort William Place, St. John's, Newfoundland and Labrador A1C 1K4												
Effluent Discharge Point	Port Site Sedimentation Pond												
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.
As (mg/L)	0.5	ND	ND	ND	ND	ND	0.0010	0.0010	ND	ND	ND	ND	ND
Cu (mg/L)	0.3	ND	ND	ND	ND	ND	0.0010	0.0010	ND	ND	ND	ND	ND
CN (mg/L)	1.0	ND	ND	ND	ND	ND	NMR	NMR	ND	ND	ND	ND	ND
Pb (mg/L)	0.2	ND	ND	ND	ND	ND	0.0003	0.0003	ND	ND	ND	ND	ND
Ni (mg/L)	0.5	ND	ND	ND	ND	ND	0.2200	0.2200	ND	ND	ND	ND	ND
Zn (mg/L)	0.5	ND	ND	ND	ND	ND	0.0025	0.0025	ND	ND	ND	ND	ND
TSS (mg/L)	15	ND	ND	ND	ND	ND	0.50	0.50	ND	ND	ND	ND	ND
Ra-226 (Bq/L)	0.37	ND	ND	ND	ND	ND	0.0025	0.0025	ND	ND	ND	ND	ND
pH low	≥6.0	ND	ND	ND	ND	ND	7.4	7.4	ND	ND	ND	ND	ND
pH high	≤9.5	ND	ND	ND	ND	ND	7.4	7.4	ND	ND	ND	ND	ND
Flow (m ³ /month)	—	ND	ND	ND	ND	ND	1 925	1 375	ND	ND	ND	ND	ND
Rainbow Trout	Pass	ND	ND	ND	ND	ND	1	-	ND	ND	ND	ND	ND
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
<i>Daphnia magna</i>	Pass	ND	ND	ND	ND	ND	-	-	ND	ND	ND	ND	ND
Monitoring Test	Fail	-	-	-	-	-	1	-	-	-	-	-	-
Comments:	No toxicity test results were provided in July since the mine reported discharge of effluent during only three days.												
Notes:	ND: No Deposit NMR: No Measurement Required Highlighted data indicate that a monthly effluent quality standard was exceeded for that month. A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement.												
	Pass: ≤50% Mortality Fail: >50% Mortality												

Metal Mining Effluent Regulations (MMER) 2008 Effluent Compliance

Mine/Mill Name	Voisey's Bay Mine – Mill												
Operator Name	Vale Inco Ltd.												
Product(s)	Nickel-Copper-Cobalt												
Address	Suite 700, Baine Johnston Centre, 10 Fort William Place, St. John's, Newfoundland and Labrador A1C 1K4												
Effluent Discharge Point	Sedimentation Pond A Discharge												
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.
As (mg/L)	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Cu (mg/L)	0.3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
CN (mg/L)	1.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Pb (mg/L)	0.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ni (mg/L)	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Zn (mg/L)	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
TSS (mg/L)	15	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ra-226 (Bq/L)	0.37	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
pH low	≥6.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
pH high	≤9.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Flow (m ³ /month)	—	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Rainbow Trout	Pass	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
<i>Daphnia magna</i>	Pass	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
Comments:													
Notes: ND: No Deposit NMR: No Measurement Required Pass: ≤50% Mortality Fail: >50% Mortality Highlighted data indicate that a monthly effluent quality standard was exceeded for that month. A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement.													

Metal Mining Effluent Regulations (MMER) 2008 Effluent Compliance

Mine/Mill Name	Voisey's Bay Mine – Mill												
Operator Name	Vale Inco Ltd.												
Product(s)	Nickel-Copper-Cobalt												
Address	Suite 700, Baine Johnston Centre, 10 Fort William Place, St. John's, Newfoundland and Labrador A1C 1K4												
Effluent Discharge Point	Sedimentation Pond B												
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.
As (mg/L)	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Cu (mg/L)	0.3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
CN (mg/L)	1.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Pb (mg/L)	0.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ni (mg/L)	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Zn (mg/L)	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
TSS (mg/L)	15	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ra-226 (Bq/L)	0.37	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
pH low	≥6.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
pH high	≤9.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Flow (m ³ /month)	—	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Rainbow Trout	Pass	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
<i>Daphnia magna</i>	Pass	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
Comments:													
Notes: ND: No Deposit NMR: No Measurement Required Pass: ≤50% Mortality Fail: >50% Mortality Highlighted data indicate that a monthly effluent quality standard was exceeded for that month. A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement.													

Metal Mining Effluent Regulations (MMER) 2008 Effluent Compliance

Mine/Mill Name	Voisey's Bay Mine – Mill												
Operator Name	Vale Inco Ltd.												
Product(s)	Nickel-Copper-Cobalt												
Address	Suite 700, Baine Johnston Centre, 10 Fort William Place, St. John's, Newfoundland and Labrador A1C 1K4												
Effluent Discharge Point	South of Ovoid Final Discharge Point												
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.
As (mg/L)	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Cu (mg/L)	0.3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
CN (mg/L)	1.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Pb (mg/L)	0.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ni (mg/L)	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Zn (mg/L)	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
TSS (mg/L)	15	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ra-226 (Bq/L)	0.37	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
pH low	≥6.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
pH high	≤9.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Flow (m ³ /month)	—	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Rainbow Trout	Pass	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
<i>Daphnia magna</i>	Pass	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
Comments:													
Notes: ND: No Deposit NMR: No Measurement Required Pass: ≤50% Mortality Fail: >50% Mortality Highlighted data indicate that a monthly effluent quality standard was exceeded for that month. A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement.													

Metal Mining Effluent Regulations (MMER) 2008 Effluent Compliance

Mine/Mill Name	Voisey's Bay Mine – Mill												
Operator Name	Vale Inco Ltd.												
Product(s)	Nickel-Copper-Cobalt												
Address	Suite 700, Baine Johnston Centre, 10 Fort William Place, St. John's, Newfoundland and Labrador A1C 1K4												
Effluent Discharge Point	South Sedimentation Pond												
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.
As (mg/L)	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Cu (mg/L)	0.3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
CN (mg/L)	1.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Pb (mg/L)	0.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ni (mg/L)	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Zn (mg/L)	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
TSS (mg/L)	15	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ra-226 (Bq/L)	0.37	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
pH low	≥6.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
pH high	≤9.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Flow (m ³ /month)	—	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Rainbow Trout	Pass	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
<i>Daphnia magna</i>	Pass	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
Comments:													
Notes: ND: No Deposit NMR: No Measurement Required Pass: ≤50% Mortality Fail: >50% Mortality Highlighted data indicate that a monthly effluent quality standard was exceeded for that month. A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement.													

Metal Mining Effluent Regulations (MMER) 2008 Effluent Compliance

Mine/Mill Name	Voisey's Bay Mine – Mill												
Operator Name	Vale Inco Ltd.												
Product(s)	Nickel-Copper-Cobalt												
Address	Suite 700, Baine Johnston Centre, 10 Fort William Place, St. John's, Newfoundland and Labrador A1C 1K4												
Effluent Discharge Point	Treated Effluent Final Discharge Point												
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
As (mg/L)	0.5	0.0200	0.0200	0.0200	0.0200	0.0316	0.0200	0.0200	0.0200	0.0200	0.0200	0.0200	0.0200
Cu (mg/L)	0.3	0.0200	0.0200	0.0200	0.0200	0.0316	0.0200	0.0200	0.0200	0.0200	0.0200	0.0200	0.0200
CN (mg/L)	1.0	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR
Pb (mg/L)	0.2	0.0025	0.0025	0.0025	0.0025	0.0025	0.0025	0.0025	0.0025	0.0025	0.0025	0.0025	0.0062
Ni (mg/L)	0.5	0.0207	0.0260	0.0145	0.0100	0.0268	0.0347	0.0973	0.3277	0.3607	0.3000	0.1900	0.1140
Zn (mg/L)	0.5	0.0500	0.0500	0.0500	0.0500	0.0645	0.0500	0.0984	0.1236	0.0516	0.0500	0.0500	0.0500
TSS (mg/L)	15	2.58	1.88	2.48	1.53	1.98	0.87	1.18	1.06	2.15	1.00	0.83	1.23
Ra-226 (Bq/L)	0.37	0.0025	0.0026	0.0031	0.0044	0.0033	0.0043	0.0043	0.0036	0.0029	0.0035	0.0043	0.0025
pH low	≥6.0	8.4	8.4	8.2	7.4	7.3	7.4	7.3	7.8	8.0	8.4	8.3	8.0
pH high	≤9.5	8.8	8.6	8.6	8.7	8.6	8.6	8.0	9.0	8.9	8.7	8.8	8.8
Flow (m ³ /month)	—	437 695	402 828	305 163	244 723	259 030	244 668	251 614	253 089	234 284	112 829	157 591	250 641
Rainbow Trout	Pass	3	3	1	1	2	7	5	3	4	1	2	5
Acute Lethality Test	Fail	1	1	3	1	2	2	4	4	1	1	1	-
<i>Daphnia magna</i>	Pass	2	2	1	1	1	2	4	1	-	-	-	4
Monitoring Test	Fail	2	2	3	1	3	6	7	6	5	2	3	1
Comments:													
Notes: ND: No Deposit NMR: No Measurement Required Pass: ≤50% Mortality Fail: >50% Mortality Highlighted data indicate that a monthly effluent quality standard was exceeded for that month. A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement.													

Metal Mining Effluent Regulations (MMER) 2008 Effluent Compliance

Mine/Mill Name	Wabush Mines Joint Venture – Scully Mine												
Operator Name	Wabush Mines												
Product(s)	Iron												
Address	Scully Mine, P.O. Box 3000, Wabush, Newfoundland and Labrador A0R 1B0												
Effluent Discharge Point	East Pit Dewatering East												
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
As (mg/L)	0.5	0.0005	0.0005	0.0005	0.0005	0.0005	0.0006	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005
Cu (mg/L)	0.3	0.0018	0.0013	0.0010	0.0006	0.0009	0.0006	0.0006	0.0013	0.0014	0.0005	0.0005	0.0006
CN (mg/L)	1.0	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR
Pb (mg/L)	0.2	0.0010	0.0013	0.0010	0.0010	0.0010	0.0013	0.0014	0.0055	0.0010	0.0010	0.0010	0.0010
Ni (mg/L)	0.5	0.0006	0.0005	0.0006	0.0007	0.0006	0.0010	0.0023	0.0008	0.0005	0.0016	0.0008	0.0006
Zn (mg/L)	0.5	0.0094	0.0175	0.0109	0.0394	0.0194	0.0245	0.0147	0.0058	0.0209	0.0063	0.0098	0.0585
TSS (mg/L)	15	8.40	2.00	1.75	5.20	1.75	34.00	25.60	2.75	4.40	4.00	4.00	3.75
Ra-226 (Bq/L)	0.37	0.0050	NMR	NMR	0.0050	NMR	NMR	0.0005	NMR	NMR	0.0050	NMR	NMR
pH low	≥6.0	6.2	6.7	6.5	6.4	6.1	7.1	7.1	7.1	7.1	7.2	6.9	6.7
pH high	≤9.5	7.5	7.4	6.7	6.7	6.7	7.3	7.5	7.4	7.4	7.5	7.2	7.3
Flow (m ³ /month)	—	319 458	296 339	319 458	457 740	532 753	581 047	601 615	609 181	599 572	383 441	522 172	591 679
Rainbow Trout	Pass	1	2	1	1	1	1	1	1	1	1	1	1
Acute Lethality Test	Fail	1	-	-	-	-	-	-	-	-	-	-	-
<i>Daphnia magna</i>	Pass	2	2	1	1	1	1	1	1	1	1	1	1
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
Comments:													
Notes: ND: No Deposit NMR: No Measurement Required Pass: ≤50% Mortality Fail: >50% Mortality Highlighted data indicate that a monthly effluent quality standard was exceeded for that month. A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement.													

Metal Mining Effluent Regulations (MMER) 2008 Effluent Compliance

Mine/Mill Name	Wabush Mines Joint Venture – Scully Mine												
Operator Name	Wabush Mines												
Product(s)	Iron												
Address	Scully Mine, P.O. Box 3000, Wabush, Newfoundland and Labrador A0R 1B0												
Effluent Discharge Point	East Pit No. 1 Dewatering												
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.
As (mg/L)	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Cu (mg/L)	0.3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
CN (mg/L)	1.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Pb (mg/L)	0.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ni (mg/L)	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Zn (mg/L)	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
TSS (mg/L)	15	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ra-226 (Bq/L)	0.37	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
pH low	≥6.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
pH high	≤9.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Flow (m ³ /month)	—	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Rainbow Trout	Pass	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
<i>Daphnia magna</i>	Pass	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
Comments:													
Notes: ND: No Deposit NMR: No Measurement Required Pass: ≤50% Mortality Fail: >50% Mortality Highlighted data indicate that a monthly effluent quality standard was exceeded for that month. A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement.													

Metal Mining Effluent Regulations (MMER) 2008 Effluent Compliance

Mine/Mill Name	Wabush Mines Joint Venture – Scully Mine												
Operator Name	Wabush Mines												
Product(s)	Iron												
Address	Scully Mine, P.O. Box 3000, Wabush, Newfoundland and Labrador A0R 1B0												
Effluent Discharge Point	East Pit No. 2 Dewatering												
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
As (mg/L)	0.5	0.0005	ND	ND	ND	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005
Cu (mg/L)	0.3	0.0005	ND	ND	ND	0.0015	0.0011	0.0008	0.0009	0.0006	0.0011	0.0005	0.0005
CN (mg/L)	1.0	NMR	ND	ND	ND	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR
Pb (mg/L)	0.2	0.0010	ND	ND	ND	0.0010	0.0010	0.0014	0.0095	0.0010	0.0050	0.0010	0.0010
Ni (mg/L)	0.5	0.0005	ND	ND	ND	0.0015	0.0024	0.0024	0.0008	0.0007	0.0006	0.0010	0.0005
Zn (mg/L)	0.5	0.0063	ND	ND	ND	0.0078	0.0056	0.0117	0.0025	0.0054	0.0049	0.0031	0.0025
TSS (mg/L)	15	1.75	ND	ND	ND	11.00	4.50	2.60	4.50	3.80	5.00	2.50	4.00
Ra-226 (Bq/L)	0.37	0.0050	ND	ND	ND	NMR	0.0050	0.0005	NMR	NMR	0.0010	NMR	NMR
pH low	≥6.0	6.1	ND	ND	ND	6.3	7.0	7.0	6.9	6.9	7.0	6.8	7.0
pH high	≤9.5	7.0	ND	ND	ND	6.3	7.2	7.5	7.1	7.5	7.3	7.3	7.0
Flow (m ³ /month)	—	68 301	ND	ND	ND	119 035	291 105	161 148	60 408	56 579	61 707	34 945	8 066
Rainbow Trout	Pass	1	ND	ND	ND	1	NMR	1	NMR	NMR	1	NMR	NMR
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
<i>Daphnia magna</i>	Pass	1	ND	ND	ND	1	NMR	1	NMR	NMR	1	NMR	NMR
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
Comments:													
Notes: ND: No Deposit NMR: No Measurement Required Pass: ≤50% Mortality Fail: >50% Mortality Highlighted data indicate that a monthly effluent quality standard was exceeded for that month. A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement.													

Metal Mining Effluent Regulations (MMER) 2008 Effluent Compliance

Mine/Mill Name	Wabush Mines Joint Venture – Scully Mine												
Operator Name	Wabush Mines												
Product(s)	Iron												
Address	Scully Mine, P.O. Box 3000, Wabush, Newfoundland and Labrador A0R 1B0												
Effluent Discharge Point	Knoll Lake Inflow												
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
As (mg/L)	0.5	0.0005	0.0009	0.0005	0.0006	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005
Cu (mg/L)	0.3	0.0009	0.0014	0.0014	0.0008	0.0031	0.0014	0.0010	0.0010	0.0021	0.0019	0.0038	0.0020
CN (mg/L)	1.0	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR
Pb (mg/L)	0.2	0.0010	0.0010	0.0010	0.0012	0.0010	0.0010	0.0014	0.0068	0.0022	0.0030	0.0013	0.0010
Ni (mg/L)	0.5	0.0005	0.0005	0.0008	0.0006	0.0014	0.0015	0.0027	0.0015	0.0025	0.0049	0.0038	0.0016
Zn (mg/L)	0.5	0.0080	0.0086	0.0056	0.0110	0.0178	0.0263	0.0199	0.0320	0.0334	0.0425	0.0710	0.0543
TSS (mg/L)	15	5.80	7.00	16.00	20.80	73.50	62.50	43.40	77.00	207.60	202.50	116.25	64.00
Ra-226 (Bq/L)	0.37	0.0050	NMR	NMR	0.0050	NMR	NMR	0.0050	NMR	NMR	0.0050	NMR	NMR
pH low	≥6.0	6.6	6.6	6.8	6.8	6.2	7.0	7.0	6.5	6.9	7.0	7.0	6.5
pH high	≤9.5	7.2	7.0	7.5	7.1	6.7	7.3	7.4	7.1	7.2	7.1	7.1	7.1
Flow (m ³ /month)	—	280 579	620 517	377 074	927 089	532 753	613 580	858 109	983 705	1 275 144	812 765	219 739	436 749
Rainbow Trout	Pass	1	NMR	NMR	1	NMR	NMR	1	NMR	NMR	1	NMR	NMR
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
<i>Daphnia magna</i>	Pass	1	NMR	NMR	1	NMR	NMR	1	NMR	NMR	1	NMR	NMR
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
Comments:													
Notes: ND: No Deposit NMR: No Measurement Required Pass: ≤50% Mortality Fail: >50% Mortality Highlighted data indicate that a monthly effluent quality standard was exceeded for that month. A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement.													

Metal Mining Effluent Regulations (MMER) 2008 Effluent Compliance

Mine/Mill Name	Wabush Mines Joint Venture – Scully Mine												
Operator Name	Wabush Mines												
Product(s)	Iron												
Address	Scully Mine, P.O. Box 3000, Wabush, Newfoundland and Labrador A0R 1B0												
Effluent Discharge Point	Loadout Ditch Discharge												
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.
As (mg/L)	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Cu (mg/L)	0.3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
CN (mg/L)	1.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Pb (mg/L)	0.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ni (mg/L)	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Zn (mg/L)	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
TSS (mg/L)	15	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ra-226 (Bq/L)	0.37	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
pH low	≥6.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
pH high	≤9.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Flow (m ³ /month)	—	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Rainbow Trout	Pass	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
<i>Daphnia magna</i>	Pass	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
Comments:													
Notes: ND: No Deposit NMR: No Measurement Required Pass: ≤50% Mortality Fail: >50% Mortality Highlighted data indicate that a monthly effluent quality standard was exceeded for that month. A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement.													

Metal Mining Effluent Regulations (MMER) 2008 Effluent Compliance

Mine/Mill Name	Wabush Mines Joint Venture – Scully Mine												
Operator Name	Wabush Mines												
Product(s)	Iron												
Address	Scully Mine, P.O. Box 3000, Wabush, Newfoundland and Labrador A0R 1B0												
Effluent Discharge Point	Shops East Discharge												
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.
As (mg/L)	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Cu (mg/L)	0.3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
CN (mg/L)	1.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Pb (mg/L)	0.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ni (mg/L)	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Zn (mg/L)	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
TSS (mg/L)	15	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ra-226 (Bq/L)	0.37	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
pH low	≥6.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
pH high	≤9.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Flow (m ³ /month)	—	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Rainbow Trout	Pass	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
<i>Daphnia magna</i>	Pass	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
Comments:													
Notes: ND: No Deposit NMR: No Measurement Required Pass: ≤50% Mortality Fail: >50% Mortality Highlighted data indicate that a monthly effluent quality standard was exceeded for that month. A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement.													

Metal Mining Effluent Regulations (MMER) 2008 Effluent Compliance

Mine/Mill Name	Wabush Mines Joint Venture – Scully Mine												
Operator Name	Wabush Mines												
Product(s)	Iron												
Address	Scully Mine, P.O. Box 3000, Wabush, Newfoundland and Labrador A0R 1B0												
Effluent Discharge Point	Shops South Discharge												
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.
As (mg/L)	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Cu (mg/L)	0.3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
CN (mg/L)	1.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Pb (mg/L)	0.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ni (mg/L)	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Zn (mg/L)	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
TSS (mg/L)	15	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ra-226 (Bq/L)	0.37	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
pH low	≥6.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
pH high	≤9.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Flow (m ³ /month)	—	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Rainbow Trout	Pass	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
<i>Daphnia magna</i>	Pass	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
Comments:													
Notes: ND: No Deposit NMR: No Measurement Required Pass: ≤50% Mortality Fail: >50% Mortality Highlighted data indicate that a monthly effluent quality standard was exceeded for that month. A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement.													

Metal Mining Effluent Regulations (MMER) 2008 Effluent Compliance

Mine/Mill Name	Wabush Mines Joint Venture – Scully Mine												
Operator Name	Wabush Mines												
Product(s)	Iron												
Address	Scully Mine, P.O. Box 3000, Wabush, Newfoundland and Labrador A0R 1B0												
Effluent Discharge Point	Tailings Discharge												
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
As (mg/L)	0.5	0.0044	0.0096	0.0038	0.0016	0.0013	0.0005	0.0010	0.0008	0.0010	0.0006	0.0009	0.0022
Cu (mg/L)	0.3	0.0052	0.0148	0.0345	0.0573	0.0027	0.0343	0.0624	0.0650	0.0726	0.0468	0.0779	0.0703
CN (mg/L)	1.0	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR
Pb (mg/L)	0.2	0.0212	0.0220	0.0293	0.0578	0.0087	0.0495	0.0684	0.0773	0.1336	0.0950	0.1340	0.1107
Ni (mg/L)	0.5	0.0094	0.0238	0.0368	0.0506	0.0050	0.0523	0.0868	0.0583	0.1014	0.0680	0.1314	0.0473
Zn (mg/L)	0.5	0.0340	0.0730	0.0859	0.1645	0.0153	0.1243	0.2220	0.1415	0.2706	0.1878	0.2936	0.2047
TSS (mg/L)	807 600	540 900	586 125	484 575	479 820	607 967	508 375	463 080	411 875	439 960	519 300	472 425	357 300
Ra-226 (Bq/L)	0.37	0.0100	NMR	NMR	0.0050	NMR	NMR	0.0050	NMR	NMR	0.0050	NMR	NMR
pH low	≥6.0	6.6	6.7	7.2	6.5	6.3	7.0	6.9	6.8	6.7	6.6	7.0	6.7
pH high	≤9.5	7.1	7.0	8.1	7.2	6.6	7.3	7.0	7.0	7.0	7.0	7.2	6.8
Flow (m ³ /month)	—	1 437 234	1 282 380	1 217 441	1 334 954	1 182 295	1 140 078	1 179 105	1 223 470	1 420 358	1 353 398	1 214 331	1 292 742
Rainbow Trout	Pass	1	NMR	NMR	1	NMR	NMR	1	NMR	NMR	1	NMR	NMR
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
<i>Daphnia magna</i>	Pass	1	NMR	NMR	1	NMR	NMR	1	NMR	NMR	-	NMR	NMR
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	1	-	-
Comments:	Extended TA was granted for TSS limit of 807 600 mg/L. TA expired on December 6, 2008.												
Notes:	ND: No Deposit NMR: No Measurement Required Highlighted data indicate that a monthly effluent quality standard was exceeded for that month. A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement.												
	Pass: ≤50% Mortality Fail: >50% Mortality												

Metal Mining Effluent Regulations (MMER) 2008 Effluent Compliance

Mine/Mill Name	Wabush Mines Joint Venture – Scully Mine												
Operator Name	Wabush Mines												
Product(s)	Iron												
Address	Scully Mine, P.O. Box 3000, Wabush, Newfoundland and Labrador A0R 1B0												
Effluent Discharge Point	Tailings Line Emergency Dump Basin 1												
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
As (mg/L)	0.5	ND	ND	ND	ND	ND	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005
Cu (mg/L)	0.3	ND	ND	ND	ND	ND	0.0018	0.0006	0.0017	0.0005	0.0005	0.0030	0.0020
CN (mg/L)	1.0	ND	ND	ND	ND	ND	NMR	NMR	NMR	NMR	NMR	NMR	NMR
Pb (mg/L)	0.2	ND	ND	ND	ND	ND	0.0010	0.0010	0.0073	0.0010	0.0010	0.0015	0.0020
Ni (mg/L)	0.5	ND	ND	ND	ND	ND	0.0012	0.0023	0.0010	0.0005	0.0005	0.0030	0.0020
Zn (mg/L)	0.5	ND	ND	ND	ND	ND	0.0103	0.0125	0.0150	0.0025	0.0055	0.0530	0.0400
TSS (mg/L)	15	ND	ND	ND	ND	ND	41.67	17.25	11.00	5.00	23.00	41.50	71.00
Ra-226 (Bq/L)	0.37	ND	ND	ND	ND	ND	0.0050	0.0050	0.0050	0.0050	0.0050	0.0050	0.0050
pH low	≥6.0	ND	ND	ND	ND	ND	7.0	7.2	7.1	7.6	7.4	7.0	6.9
pH high	≤9.5	ND	ND	ND	ND	ND	7.1	7.5	7.3	7.6	7.5	7.3	6.9
Flow (m ³ /month)	—	ND	ND	ND	ND	ND	1 236	4 233	1 256	576	7 008	601	150
Rainbow Trout	Pass	ND	ND	ND	ND	ND	-	-	-	-	-	-	-
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
<i>Daphnia magna</i>	Pass	ND	ND	ND	ND	ND	-	-	-	-	-	-	-
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
Comments:	No toxicity test results were provided.												
Notes:	ND: No Deposit NMR: No Measurement Required Highlighted data indicate that a monthly effluent quality standard was exceeded for that month. A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement.												
	Pass: ≤50% Mortality Fail: >50% Mortality												

Metal Mining Effluent Regulations (MMER) 2008 Effluent Compliance

Mine/Mill Name	Wabush Mines Joint Venture – Scully Mine												
Operator Name	Wabush Mines												
Product(s)	Iron												
Address	Scully Mine, P.O. Box 3000, Wabush, Newfoundland and Labrador A0R 1B0												
Effluent Discharge Point	West Pit Extension Settling Basin												
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
As (mg/L)	0.5	0.0005	0.0005	0.0005	0.0005	0.0005	0.0006	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005
Cu (mg/L)	0.3	0.0134	0.0023	0.0013	0.0007	0.0006	0.0010	0.0024	0.0009	0.0008	0.0006	0.0033	0.0006
CN (mg/L)	1.0	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR
Pb (mg/L)	0.2	0.0010	0.0010	0.0010	0.0012	0.0010	0.0013	0.0010	0.0078	0.0012	0.0010	0.0010	0.0010
Ni (mg/L)	0.5	0.0009	0.0005	0.0005	0.0008	0.0006	0.0008	0.0013	0.0015	0.0005	0.0006	0.0005	0.0005
Zn (mg/L)	0.5	0.0091	0.0086	0.0050	0.0186	0.0255	0.0135	0.0152	0.0039	0.0025	0.0031	0.0049	0.0025
TSS (mg/L)	15	26.80	7.00	17.25	61.40	20.00	16.00	99.60	26.50	21.40	34.00	23.75	7.75
Ra-226 (Bq/L)	0.37	0.0050	NMR	NMR	0.0050	NMR	NMR	0.0050	NMR	NMR	0.0050	NMR	NMR
pH low	≥6.0	6.4	6.4	6.6	6.6	6.2	6.7	6.7	6.6	6.8	6.0	6.4	6.6
pH high	≤9.5	6.8	6.9	7.3	7.3	6.6	7.6	7.1	6.9	7.0	6.9	7.0	7.2
Flow (m ³ /month)	—	877 219	868 047	1 449 187	1 783 260	1 296 512	1 053 913	1 731 547	2 526 987	2 927 146	2 768 958	2 116 062	2 092 447
Rainbow Trout	Pass	1	NMR	NMR	1	NMR	NMR	1	NMR	NMR	1	NMR	NMR
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
<i>Daphnia magna</i>	Pass	1	NMR	NMR	1	NMR	NMR	1	NMR	NMR	1	NMR	NMR
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
Comments:													
Notes: ND: No Deposit NMR: No Measurement Required Pass: ≤50% Mortality Fail: >50% Mortality Highlighted data indicate that a monthly effluent quality standard was exceeded for that month. A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement.													

Metal Mining Effluent Regulations (MMER) 2008 Effluent Compliance

Mine/Mill Name	Williams Mine												
Operator Name	Teck Cominco Ltd. and Barrick Gold Corporation												
Product(s)	Gold												
Address	P.O. Bag 500, Marathon, Ontario P0T 2E0												
Effluent Discharge Point	Polishing Pond Discharge CP 400												
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.
As (mg/L)	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Cu (mg/L)	0.3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
CN (mg/L)	1.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Pb (mg/L)	0.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ni (mg/L)	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Zn (mg/L)	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
TSS (mg/L)	15	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ra-226 (Bq/L)	0.37	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
pH low	≥6.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
pH high	≤9.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Flow (m ³ /month)	—	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Rainbow Trout	Pass	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
<i>Daphnia magna</i>	Pass	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
Comments:													
Notes: ND: No Deposit NMR: No Measurement Required Pass: ≤50% Mortality Fail: >50% Mortality Highlighted data indicate that a monthly effluent quality standard was exceeded for that month. A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement.													

Metal Mining Effluent Regulations (MMER) 2008 Effluent Compliance

Mine/Mill Name	Williams Mine												
Operator Name	Teck Cominco Ltd. and Barrick Gold Corporation												
Product(s)	Gold												
Address	P.O. Bag 500, Marathon, Ontario P0T 2E0												
Effluent Discharge Point	Stormwater Pond CP 102												
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.
As (mg/L)	0.5	ND	ND	ND	0.0010	0.0005	0.0010	0.0020	ND	ND	ND	ND	ND
Cu (mg/L)	0.3	ND	ND	ND	0.0010	0.0010	0.0010	0.0020	ND	ND	ND	ND	ND
CN (mg/L)	1.0	ND	ND	ND	0.0045	0.0010	0.0010	0.0010	ND	ND	ND	ND	ND
Pb (mg/L)	0.2	ND	ND	ND	0.0005	0.0005	0.0005	0.0005	ND	ND	ND	ND	ND
Ni (mg/L)	0.5	ND	ND	ND	0.0115	0.0070	0.0110	0.0120	ND	ND	ND	ND	ND
Zn (mg/L)	0.5	ND	ND	ND	0.0135	0.0080	0.0060	0.0100	ND	ND	ND	ND	ND
TSS (mg/L)	15	ND	ND	ND	2.95	2.70	1.00	4.30	ND	ND	ND	ND	ND
Ra-226 (Bq/L)	0.37	ND	ND	ND	0.0060	NMR	NMR	0.0040	ND	ND	ND	ND	ND
pH low	≥6.0	ND	ND	ND	7.2	7.9	7.8	7.6	ND	ND	ND	ND	ND
pH high	≤9.5	ND	ND	ND	7.4	7.9	7.8	7.6	ND	ND	ND	ND	ND
Flow (m ³ /month)	—	ND	ND	ND	35 961	10 675	8 812	17 171	ND	ND	ND	ND	ND
Rainbow Trout	Pass	ND	ND	ND	1	-	-	1	ND	ND	ND	ND	ND
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
<i>Daphnia magna</i>	Pass	ND	ND	ND	1	-	-	1	ND	ND	ND	ND	ND
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
Comments:	No toxicity test results were provided for May and June.												
Notes:	ND: No Deposit NMR: No Measurement Required Highlighted data indicate that a monthly effluent quality standard was exceeded for that month. A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement. Pass: ≤50% Mortality Fail: >50% Mortality												

Metal Mining Effluent Regulations (MMER) 2008 Effluent Compliance

Mine/Mill Name	Williams Mine												
Operator Name	Teck Cominco Ltd. and Barrick Gold Corporation												
Product(s)	Gold												
Address	P.O. Bag 500, Marathon, Ontario P0T 2E0												
Effluent Discharge Point	Stormwater Pond CP 0300												
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.
As (mg/L)	0.5	ND	ND	ND	0.0010	ND	0.0010	ND	ND	ND	ND	ND	ND
Cu (mg/L)	0.3	ND	ND	ND	0.0017	ND	0.0020	ND	ND	ND	ND	ND	ND
CN (mg/L)	1.0	ND	ND	ND	0.0010	ND	0.0020	ND	ND	ND	ND	ND	ND
Pb (mg/L)	0.2	ND	ND	ND	0.0005	ND	0.0005	ND	ND	ND	ND	ND	ND
Ni (mg/L)	0.5	ND	ND	ND	0.0033	ND	0.0040	ND	ND	ND	ND	ND	ND
Zn (mg/L)	0.5	ND	ND	ND	0.0063	ND	0.0070	ND	ND	ND	ND	ND	ND
TSS (mg/L)	15	ND	ND	ND	3.20	ND	2.90	ND	ND	ND	ND	ND	ND
Ra-226 (Bq/L)	0.37	ND	ND	ND	0.0040	ND	0.0010	ND	ND	ND	ND	ND	ND
pH low	≥6.0	ND	ND	ND	7.2	ND	7.9	ND	ND	ND	ND	ND	ND
pH high	≤9.5	ND	ND	ND	7.6	ND	7.9	ND	ND	ND	ND	ND	ND
Flow (m ³ /month)	—	ND	ND	ND	107 100	ND	28 391	ND	ND	ND	ND	ND	ND
Rainbow Trout	Pass	ND	ND	ND	1	ND	1	ND	ND	ND	ND	ND	ND
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
<i>Daphnia magna</i>	Pass	ND	ND	ND	1	ND	1	ND	ND	ND	ND	ND	ND
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
Comments:													
Notes: ND: No Deposit NMR: No Measurement Required Pass: ≤50% Mortality Fail: >50% Mortality Highlighted data indicate that a monthly effluent quality standard was exceeded for that month. A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement.													

Metal Mining Effluent Regulations (MMER) 2008 Effluent Compliance

Mine/Mill Name	Williams Mine												
Operator Name	Teck Cominco Ltd. and Barrick Gold Corporation												
Product(s)	Gold												
Address	P.O. Bag 500, Marathon, Ontario P0T 2E0												
Effluent Discharge Point	Stormwater Pond CP 400A												
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
As (mg/L)	0.5	0.0063	ND	ND	0.0023	ND	ND	ND	ND	ND	0.0065	0.0063	0.0088
Cu (mg/L)	0.3	0.0047	ND	ND	0.0033	ND	ND	ND	ND	ND	0.0020	0.0025	0.0020
CN (mg/L)	1.0	0.0323	ND	ND	0.0063	ND	ND	ND	ND	ND	0.0050	0.0065	0.0102
Pb (mg/L)	0.2	0.0005	ND	ND	0.0006	ND	ND	ND	ND	ND	0.0005	0.0005	0.0005
Ni (mg/L)	0.5	0.0253	ND	ND	0.0138	ND	ND	ND	ND	ND	0.0240	0.0220	0.0340
Zn (mg/L)	0.5	0.0310	ND	ND	0.0213	ND	ND	ND	ND	ND	0.0115	0.0118	0.0092
TSS (mg/L)	15	1.67	ND	ND	12.28	ND	ND	ND	ND	ND	9.25	5.78	2.68
Ra-226 (Bq/L)	0.37	0.0120	ND	ND	0.0070	ND	ND	ND	ND	ND	0.0090	NMR	NMR
pH low	≥6.0	7.4	ND	ND	7.2	ND	ND	ND	ND	ND	7.9	8.0	7.9
pH high	≤9.5	7.6	ND	ND	7.6	ND	ND	ND	ND	ND	7.9	8.1	8.0
Flow (m ³ /month)	—	11 061	ND	ND	65 202	ND	ND	ND	ND	ND	22 297	80 544	63 350
Rainbow Trout	Pass	1	ND	ND	1	ND	ND	ND	ND	ND	1	1	1
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
<i>Daphnia magna</i>	Pass	1	ND	ND	1	ND	ND	ND	ND	ND	1	1	1
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
Comments:													
Notes: ND: No Deposit NMR: No Measurement Required Pass: ≤50% Mortality Fail: >50% Mortality Highlighted data indicate that a monthly effluent quality standard was exceeded for that month. A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement.													

Metal Mining Effluent Regulations (MMER) 2008 Effluent Compliance

Mine/Mill Name	Williams Mine												
Operator Name	Teck Cominco Ltd. and Barrick Gold Corporation												
Product(s)	Gold												
Address	P.O. Bag 500, Marathon, Ontario P0T 2E0												
Effluent Discharge Point	Treated Effluent CP 0201												
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.
As (mg/L)	0.5	ND	ND	ND	ND	ND	0.0027	0.0020	0.0025	0.0026	0.0022	0.0022	0.0023
Cu (mg/L)	0.3	ND	ND	ND	ND	ND	0.0093	0.0072	0.0064	0.0074	0.0091	0.0087	0.0063
CN (mg/L)	1.0	ND	ND	ND	ND	ND	0.0437	0.0064	0.0077	0.0034	0.0055	0.0040	0.0030
Pb (mg/L)	0.2	ND	ND	ND	ND	ND	0.0005	0.0005	0.0002	0.0002	0.0006	0.0005	0.0002
Ni (mg/L)	0.5	ND	ND	ND	ND	ND	0.0530	0.0606	0.0516	0.1138	0.1453	0.1275	0.0715
Zn (mg/L)	0.5	ND	ND	ND	ND	ND	0.0035	0.0032	0.0019	0.0042	0.0066	0.0059	0.0034
TSS (mg/L)	15	ND	ND	ND	ND	ND	1.43	1.98	1.37	1.00	1.00	1.00	13.60
Ra-226 (Bq/L)	0.37	ND	ND	ND	ND	ND	0.0010	NMR	0.0010	NMR	0.0050	NMR	NMR
pH low	≥6.0	ND	ND	ND	ND	ND	7.5	7.5	7.6	7.3	7.2	7.4	7.5
pH high	≤9.5	ND	ND	ND	ND	ND	7.6	7.6	7.7	7.6	7.4	7.4	7.5
Flow (m ³ /month)	—	ND	ND	ND	ND	ND	267 052	406 296	310 860	375 745	399 448	354 902	6 316
Rainbow Trout	Pass	ND	ND	ND	ND	ND	2	1	1	1	1	1	1
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
<i>Daphnia magna</i>	Pass	ND	ND	ND	ND	ND	2	1	1	1	1	1	1
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
Comments:													
Notes: ND: No Deposit NMR: No Measurement Required Pass: ≤50% Mortality Fail: >50% Mortality Highlighted data indicate that a monthly effluent quality standard was exceeded for that month. A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement.													

