Environment Act Licence Loi sur l'environnement Licence



Licence No./Licence n° 2492 RR

Issue Date/Date de délivrance Revise No. h 14, 2001

Revised September 22, 2004

IN ACCORDANCE WITH THE MANITOBA ENVIRONMENT AS 7 (C.C.S.M. c. E. S). THIS LICENCE IS ISSUED PURSUANT TO SECTIONS 11(1) AND 3(2) TO:

CROWFLIGHT MINERALS INC. and FALCONBP JGE LILYTER 'the Licencees"

for advanced exploration activities at the Developmed called the "Bur to Lake Project" located about 4 kilometres south-west of the Town of Wabowen, on Vir al Lease ML-031 on Lot 3442 in Group 422 as shown on Director of Surveys Plan 1936, when the Development being:

- the dewatering of the existing underground min yorking acko Lake,
- advanced underground exploration of the or body, ad
- the construction and setting into operation of such surface facilities as may be required to facilitate the proposed exploration a avittee and to ensure compliance with this Licence and with the federal Metal Mining Effluent regulations, and subject to the following specifications, limits, terms and conditions:

DEFINITIONS

In this Licence:

- "accredited aboratory" meet an analytical facility accredited by the Standard Council of Cancal (SCC), or accredited by another accrediting agency recognized by Manitoba Constraint to be equivalent to the SCC, or able to demonstrate, upon request, that it the vality assurance/quality control (QA/QC) procedures in place equivalent to accorditate based on the international standard ISO/IEC 17025, or otherwise approved by an Director;
- "As means the maximum acid-generation potential, expressed as tonnes of CaCO₃ per 1 0 tonnes of a material tested, determined in accordance with a static Acid-Base Accounting method satisfactory to the Director;
- "approved" means approved by the Director in writing;
- "composite sample" means as defined in the federal Metal Mining Effluent Regulations;
- "contaminated soil" means soil which contains contaminant concentrations in excess of the applicable remediation criteria cited in the CCME's "Recommended Canadian Soil

** A COPY OF THIS LICENCE MUST BE KEPT ON SITE AT THE DEVELOPMENT AT ALL TIMES **

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Quality Guidelines" report ISBN 1-895-925-92-4 March 1997, and in the CCME's "Interim Canadian Environmental Quality Criteria for Contaminated Sites" report CCME EPC-CS34 September 1991, or any future amendment thereof;

- "Director" means an employee of the department appointed as such by the Minister;
- "effluent" means treated or untreated mine water released into the envirement;
- "final discharge point" means the point of release from the proposed mind vater sattling ponds, or from any additional on-site mine water treatment facility manay be incorporated, beyond which no further control is exercise over the effluent, unless otherwise re-designated in writing by the Director;
- "grab sample" means as defined in the federal Metal sining Efficient Regulations;
- "Metal Mining Effluent Regulations" means he A al Mir ng Effluent Regulations (SOR/2002-222), or any future amendments is veto, redulgated under the federal Fisheries Act;
- "mine" includes all the surface and a necte underground workings, overburden, waste rock and ore stockpiles, all ancillary a ilding, wastewater treatment facilities and other infrastructure located on the mine site associated with the Development shown in Appendix 'B' attached to his Licence.
- "mine site" includes the hole operational or disturbed area of land within the boundaries of those surface rights acquired and held by the Licencees for the operation of the Development, as generally epicted in Appendix 'A' attached to this Licence;
- "mine wat." means water a mped to the surface from underground mine workings or an oper pit, or eachate from ore or waste rock stockpiles, or polluted surface runoff, or any or about ation thereof;
- monthly arith. Ac mean" means the arithmetic mean as determined for each specified protect or characteristic from the analysis of all composite and grab samples collected and reported during that month in which the release of liquid effluent occurred, with the exception that if the Licencees collect only one composite or grab sample during a sample month, then the single set of analytical results shall be construed to be representative of the effluent quality for that month and hence shall be treated as the monthly arithmetic mean;
- "NP" means the maximum neutralizing potential, expressed as tonnes of CaCO₃ per 1000 tonnes of a material tested, determined in accordance with a static Acid-Base Accounting method satisfactory to the Director;
- "NPR" means the neutralizing potential ratio as determined from the ratio of NP/AP;

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- "potentially acid-generating" means having the potential or uncertain ability to generate acid as indicated by a NPR of 4 or less, until or unless an appropriate alternate NPR cut-off value is determined, to the satisfaction of the Director, through detailed characterizations, evaluations and interpretations, or through kinetic testing carried out on representative test material by qualified individuals;
- "sewage" means sewage as defined in *Manitoba Regulation 83/200* It secting preate sewage disposal systems and privies, or any future amendments dereto;
- "solid waste" means solid waste as defined in *Manitoba Revolatio* 150/91 respecting waste disposal grounds, or any future amendments thereto;
- "Standard Methods for the Examination of Water and Was water means the most recent edition of Standard Methods for the Examination of Water and Wastewater published jointly by the American Published Holling American Waterworks Association and the Water Environment Farmann; and
- "undiluted" means free of extraneous unposited sous and f water which could feasibly be prevented from mixing with the sine water or effluent prior to its discharge at a designated final discharge point, or in having water added for the purpose of meeting any effluent quality limit specified in his Licence or in the federal Metal Mining Effluent Regulations.

GEN A. TERMS AND CONDITIONS

- 1. Notwithstarting any of the following limits, terms and conditions specified in this Licence, the Licences shall upon the request of the Director:
 - (a) sample position, analyze and/or investigate specific areas of concern regarding any memory omporant or aspect of pollutant storage, containment, handling, treatment, and dispositive emission systems, for such pollutants or ambient quality, aquatic to city leachate characteristics and discharge or emission rates, for such duration and a such requencies as may be specified;
 - (b) determine the environmental impact associated with the release of any pollutant(s) from the Development; or
 - (c) provide the Director, within such time as may be specified, with such reports, drawings, specifications, analytical data, descriptions of sampling and analytical procedures being used, bioassay data, flow rate measurements and such other information as may from time to time be requested.
- 2. The Licencees shall, unless otherwise specified in this Licence:
 - (a) carry out all preservations and analyses of liquid samples in accordance with the methods prescribed in the Standard Methods for the Examination of Water and

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Wastewater or in accordance with equivalent preservation and analytical methodologies approved by the Director; and

- (b) have all analytical determinations undertaken by an accredited laboratory.
- 3. The Licencees shall report all the information requested through the provisions of this Licence in a manner and form acceptable to the Director.

SPECIFICATIONS, LIMITS, TERMS AND CONSTITIONS

Respecting Land Use

- 4. The Licencees shall restrict construction and advanced possess:

 Development to only those lands to which the Licence possess:
 - (a) surface rights, or complete ownership, or a sign of agreemen with another person or legal entity respecting the use of any land to which set person or legal entity possesses the surface rights or complete ownership when in the organism clearly identifies the party which accepts full responsibility for any entronmental liabilities incurred by the activities of the Licencees; or
 - (b) all applicable work permits and the er cuting permits, as may be required by law, prior to the initiation of any works or distriction of account and.

Respecting Water Diversion and Use

- 5. The Licencees shall not companie any attivities of water withdrawal or water diversion involving Bucko Lake which a subject of the Water Rights Act, unless they are licenced under the Water Rights Act.
- 6. The Licenceer shall enstruct the end-of-pipe of the raw water intake line in Bucko Lake with a fitted rish screen that a nforms to the "Freshwater Intake End-of-Pipe Fish Screen Guideling published by the Department of Fisheries and Oceans.

Respect: Sew.

- 7. Valess therw. 2 proved under Manitoba Regulation 83/2003, or any future amendment thereto respecting private sewage disposal systems and privies, the Licencees shall:
 - Arect and ewage, including shower water, generated at the mine site into an on-site septic holding tank;
 - (b) begin, construction and use of the on-site septic holding tank, or any future alternative and approved private sewage disposal system, in compliance with *Manitoba Regulation* 83/2003; and
 - (c) dispose of any sewage and septage withdrawn from the on-site septic holding tank is disposed of in accordance with *Manitoba Regulation 83/2003*.

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Respecting Mine Water Handling

- 8. The Licencees shall maximize the recycling of mine water and minimize the influx of underground seepage waters, wherever practical, so as to minimize the use of fresh make-up water and to minimize the release of any effluent into the environment.
- 9. The Licencees shall:
 - (a) direct all underground mine water that is pumped to surface, into the proposed surface minewater settling ponds for such recycling or treatment as may be required, print to being released as effluent into the environment;
 - (b) construct the base of the settling ponds facility into an underlying layer of the world line the inside of each interior surface of the exterior perimeter permy on an impermeable high density polyethylene liner, not less than 1.5 millimetres was, heat relided at the seams, and properly keyed into the clay base and the research term;
 - (c) test the integrity of all seams by the air lance or arasonic A see as test methods, in accordance with ASTM Standard D-4437, and placer and subject a testing report to the Director one week before the HDPE liner is a verea with sand and the interior berm(s); and
 - (d) have the constructed synthetic liner, liner anchors and approved by an Environment Office before are is covered with sand.
- 10. The Licencees shall not discharge any eix ent fit a the Development into the environment except through the final discharge point.

Respecting Effluent Releases

- 11. The Licencees shall notify the older of the Wild Rice Production Licence on Bucko Lake of the schedule to commence efficience asses to Bucko Lake from the final discharge point, and implement such mitigates measures as deemed necessary so as not to adversely affect any rights granted to person brough the Wild Rice Production Licence.
- 12. The Licensees show, during the mine de-watering phase, not release any effluent from the final discourge sont if the concentration of total iron in any composite or grab sample of the effluent is gotter than 2.0 milligrams per litre.
- 13 The Lieuncees shall not discharge any effluent from the final discharge point if the quality of antique pH or toxicity) of the effluent is in non-compliance with the federal Metal. A sing Effluent Regulations.
- 14. The Licencees shall not use any contaminated soil or potentially acid-generating rock as a construction material in the surface development of this mine site or any other surface construction site, nor release such material to any other person as a construction material.
- 15. The Licencees shall dispose of any sludges resulting from the clean-out of underground mine water sumps, or from the clean-out of the surface settling ponds, or any from the chemical treatment of any minewater, into:
 - (a) a secure depository in the Development's underground mine workings; or

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- (b) a waste disposal ground permitted under *Manitoba Regulation 150/91*, subject to being appropriately dewatered at the site of the Development to meet the criteria of solid waste as defined in the said regulation and being accepted, in writing, by the operator of the waste disposal ground.
- 16. The Licencees shall not deposit any solid waste into the environment exercises a waste disposal ground operating under the authority of a permit issued pure ant to Maitoba Regulation 150/91, or any future amendment thereto.

Respecting Recyclable Waste

- 17. The Licencees shall not deposit bulky metallic wastes, used thes, used oil and other fluid lubricants, and any other class of recyclable waste substances as way be smalled by the Director, into the environment except to:
 - (a) a facility or infrastructure which accepts such materials for heveling or
 - (b) a waste disposal ground operating under the actionity of a termit issued pursuant to Manitoba Regulation 150/91, or any future anends on there is, where these recyclable substances are kept distinctly segregated from each other and are not buried (unless otherwise specified by the Director) so as to readily facilitate their recycling.
- 18. The Licencees shall make reasonable to forts to initiate and maintain a recycling program for those substances identified in, or through the probabilities of, Clause 17 of this Licence.

Respecting Dangerous Goods or Jazardous Was

- 19. The Licencees shall not establish any petr leum fuel storage facility closer than 100 metres from the high water mark of the searest shall not be been storage facility closer than 100 metres.
- 20. The Licencees shall complete all the applicable requirements of:
 - (a) Manitoba Region in 188/2 01 or any future amendment thereto, respecting the storage and harrying of petroleum roducts and allied products; and
 - (b) the Lanitob Dang Loas Goods Handling and Transportation Act, and regulations issue the Lander, respecting the handling, transport, storage and disposal of any langers goods Lought onto or generated at the Development.
- 21. The Li encees shall ensure that used oil and hydraulic fluids removed from on-site ach aery and vehicles are collected, transported and stored in secure, properly labeled and not eaking containers until recycled; and if the containers are temporarily stored on site, that it storage area is constructed with a base and containment dikes fully lined on the interior with an impermeable liner or is otherwise constructed with equivalent containment provisions satisfactory to the Director.

Respecting Monitoring, Record Keeping and Reporting

- 22. The Licencees shall:
 - (a) install, operate, maintain and annually calibrate a continuous recording effluent flow meter, at the final discharge point, rated to be accurate to within \pm 5%;

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- (b) measure and record the daily volume (cubic metres) of effluent released on any day on which the effluent is monitored pursuant to Clause 23 of this Licence; and
- (c) measure and record the total monthly volume (cubic metres) of effluent released each month through the final discharge point.
- 23. The Licencees shall, in accordance with the terms specified in Schedule 1, tach to this Licence, collect undiluted composite samples, or representative undiluted grab samples, of effluent released from the final discharge point, and analyze each tample for the concentration or characteristic of each parameter listed identified in Schedule 1, Aless otherwise specified in writing by the Director.
- 24. The Licencees shall submit monthly reports on the analyses and interminations recorded pursuant to Clauses 22, and 23 of this Licence, to the Exercise wilding and in an electronic format acceptable to the Director, no later than 30 days often a rend of the month during which the information or samples were collected.

Joint and Several Responsibility

25. The Licencees shall be jointly and severall assponsible or compliance with this Licence.

REV &W AND X TVOCATION

- A. This Licence replaces Environment Act pieces No. 2492 R which was revoked for the reason that no construction had commend a on the licenced Development within three years of the date that the Vicence was is.
- B. If, in the opinion of Director the Licencees have exceeded or are exceeding or have or are failing to meet the specific dons, limits, terms, or conditions set out in this Licence, the Director day, termorarily or permanently, revoke this Licence.
- C. If the licenses have not commenced the proposed advanced exploration within three years to the due of the License, the License is revoked.
- D. If the opinion of the Director, new evidence warrants a change in the specifications, link is, terms or conditions of this Licence, the Director may require the filing of a new prope of pursuant to Section 11 of The Environment Act.

Larry Strachan, P. Eng.

Director

Environment Act

File: 4539.0

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SCHEDULE 1 (Effluent Monitoring Schedule)

PARAMETER	SAMPLING FREQUENCY		
	Weekly	Monthly	guarte
рН	X		
Total Arsenic	X		
Total Copper	X		
Total Lead	X		
Total Nickel	X		
Total Zinc	X		
Total Iron	X		
Total Suspended Solids	Х		
Radium 226	X (see Note)		

[&]quot;weekly" means once every seven days on an or rating sy.

Note 1: This monitoring frequency may be reduced as par the ideral Metal Mining Effluent Regulations.

Note 2: This Schedule may be revised from time to time by the Director