



Conservation and Climate

Environmental Approvals Branch
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File No.: 6114.00

August 26, 2021

Deepak Joshi
Chief Administrative Officer
Rural Municipality of St. Clements
1043 Kittson Road, Box 2, Group 35, RR1
East Selkirk MB R0E 0M0
info@rmofstclements.com

Dear Deepak Joshi:

Re: Environment Act Licence No. 3360

Enclosed is Environment Act Licence No. 3360, issued to Rural Municipality of St. Clements for the construction and operation of the Development being a water system upgrade serving the communities of East Selkirk and Lockport, in accordance with the Proposal filed under The Environment Act.

In addition to the enclosed Licence requirements, please be informed that all other applicable federal, provincial and municipal regulations and by-laws must be complied with. A Notice of Alteration must be filed with the Director for approval prior to any alteration to the Development as licensed.

If you have any questions on this matter, please contact Tyler Kneeshaw, Regional Supervisor, Environmental Compliance and Enforcement Branch, at 204-239-3608 or Tyler.Kneeshaw@gov.mb.ca.

Pursuant to Section 27 of The Environment Act, this licensing decision may be appealed by any person who is affected by the issuance of this Licence to the Minister of Conservation and Climate within 30 days of the date of the Licence.

Sincerely,

Original Signed by

Laura Pyles, A/Director
The Environment Act

- c. Ranveer Katyal - Manitoba Water Services Board
Krystal Harman, Yvonne Hawryliuk, Tyler Kneeshaw - Environmental Compliance and Enforcement
Asit Dey, Bruce Webb - Environmental Approvals
Public Registry

LICENCE

File No. 6114.00

Licence No. / Licence n°: **3360**
Issue Date / Date de délivrance : **August 26, 2021**

In accordance with The Environment Act (C.C.S.M. c. E125)
Conformément à la Loi sur l'environnement (C.P.L.M. c. E125)

Pursuant to Sections 11(1) / Conformément au Paragraphe 11(1)

THIS LICENCE IS ISSUED TO: / CETTE LICENCE EST DONNÉE À:

RURAL MUNICIPALITY OF ST. CLEMENTS: "the Licensee"

for the construction and operation of the Development being a groundwater supply, treatment and distribution system for municipal purposes with the following components:

- a) two existing supply wells in the carbonate aquifer adjacent to the water treatment plant;
- b) a 26 litre/second (net) filtration water treatment plant on Kittson Road using reverse osmosis, nanofiltration and bypass cartridge filtration;
- c) a distribution system serving the communities of East Selkirk and Lockport and adjacent areas;
- d) a concentrate water pipeline from the water treatment plant to Cooks Creek, with provision to discharge concentrate to the community's wastewater collection system when ice conditions do not allow discharge in Cooks Creek; and
- e) a future extension of the concentrate water pipeline to the Red River;

in accordance with the proposal filed under The Environment Act dated May 28, 2021, and subject to the following specifications, limits, terms and conditions:

DEFINITIONS

In this Licence,

"accredited laboratory" means an analytical facility accredited by the Standards Council of Canada (SCC), or accredited by another accrediting agency recognized by Manitoba Conservation and Climate to be equivalent to the SCC, or be able to demonstrate, upon request, that it has the quality assurance/quality control (QA/QC) procedures in place equivalent to accreditation based on the international standard ISO/IEC 17025, or otherwise approved by the Director;

"approved" means approved by the Director or an assigned Environment Officer in writing;

"Director" means an employee so designated pursuant to The Environment Act;

"Environment Officer" means an employee so designated pursuant to The Environment Act; and

"Standard Methods for the Examination of Water and Wastewater" means the most recent edition of Standard Methods for the Examination of Water and Wastewater published jointly by the American Public Health Association, the American Waterworks Association and the Water Environment Federation.

GENERAL TERMS AND CONDITIONS

This Section of the Licence contains requirements intended to provide guidance to the Licensee in implementing practices to ensure that the environment is maintained in such a manner as to sustain a high quality of life, including social and economic development, recreation and leisure for present and future Manitobans.

1. The Licensee shall at all times maintain a copy of this Licence at the Development or at the premises from which the Development's operations are managed.
2. In addition to any of the limits, terms and conditions specified in this Licence, the Licensee shall, upon the request of the Director:
 - a) sample, monitor, analyze or investigate specific areas of concern regarding any segment, component or aspect of pollutant storage, containment, treatment, handling, disposal or emission systems, for such pollutants, ambient quality, aquatic toxicity, leachate characteristics and discharge or emission rates, and for such duration and at such frequencies as may be specified;
 - b) determine the environmental impact associated with the release of any pollutant from the Development;
 - c) conduct specific investigations in response to the data gathered during environmental monitoring programs; or
 - d) 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.
3. The Licensee shall submit all information required to be provided to the Director or Environment Officer under this Licence, in written and electronic format, in such form (including number of copies) and of such content as may be required by the Director or Environment Officer, and each submission shall be clearly labeled with the Licence Number and File Number associated with this Licence.
4. The Licensee shall construct and operate the water supply system in accordance with Manitoba Regulations under The Public Health Act, The Drinking Water Safety Act, and all operating requirements as recommended by Manitoba Conservation and Climate.
5. The Licensee shall collect and dispose of all used oil products and other regulated hazardous wastes generated by the machinery used in the construction and operation of the Development in accordance with applicable Manitoba Conservation and Climate and legislation requirements.

6. The Licensee shall not permit the interconnection of a private water supply system with the Development.
7. The Licensee shall maintain the water supply wells associated with the Development to prevent the contamination of groundwater by surface water:
 - a) entering the well casings through the top of the casings; and
 - b) entering the well casings through the sides of the casings.
8. The Licensee shall actively participate in any future watershed based management study, plan and/or nutrient reduction program, approved by the Director, for Cooks Creek and associated waterways and watersheds.

SPECIFICATIONS, LIMITS, TERMS AND CONDITIONS

Construction - General

9. The Licensee shall notify the assigned Environment Officer not less than two weeks prior to beginning construction of the Development. The notification shall include the intended starting date of construction and the name of the contractor responsible for the construction.
10. The Licensee shall, prior to the construction of the Development, obtain a Permit to Construct or Alter a Public Water System from the Office of Drinking Water of Manitoba Conservation and Climate.
11. The Licensee shall dispose of non-reusable construction debris from the Development at a waste management facility operating under the authority of a permit issued pursuant to the Waste Management Facilities Regulation, or any future amendment thereof, or a Licence issued pursuant to The Environment Act.
12. The Licensee shall comply with the requirements of The Heritage Resources Act, and suspend construction and immediately notify the Historic Resources Branch if heritage resources are encountered during the construction of the Development.
13. The Licensee shall locate fuel storage and equipment servicing areas established for the construction and operation of the Development a minimum distance of 100 metres from any waterbody and 30 metres from any well, and shall comply with the requirements of the Storage and Handling of Petroleum Products and Allied Products Regulation, or any future amendment thereof.
14. The Licensee shall, during construction and maintenance of the Development, operate, maintain and store all materials and equipment in a manner that prevents any deleterious substances (fuel, oil, grease, hydraulic fluids, coolant, paint, uncured concrete and concrete wash water, etc.) from entering watercourses or any well, and have an emergency spill kit for in-water use available on site during construction.
15. The Licensee shall, in the case of physical or mechanical equipment breakdown or process upset where such breakdown or process upset results or may result in the release of a

pollutant in an amount or concentration, or at a level or rate of release, that causes or may cause a significant adverse effect, immediately report the event by calling the 24-hour environmental accident reporting line at 204-944-4888 (toll-free 1-855-944-4888). The report shall indicate the nature of the event, the time and estimated duration of the event and the reason for the event.

16. The Licensee shall, following the reporting of an event pursuant to Clause 15,
 - a) identify the repairs required to the mechanical equipment;
 - b) undertake all repairs to minimize unauthorized discharges of a pollutant;
 - c) complete the repairs in accordance with any written instructions of the Director and/or the Environment Officer; and
 - d) submit a report to the Director about the causes of breakdown and measures taken, within one week of the repairs being done.
17. The Licensee shall, during construction and maintenance of the Development, prevent the introduction and spread of foreign aquatic and terrestrial biota by cleaning equipment prior to its delivery to the site of the Development and complying with the Aquatic Invasive Species Regulation, or any future amendment thereof.
18. The Licensee shall revegetate soil exposed during the construction of the Development with native or introduced grasses or legumes. Native species shall be used to revegetate areas where native species existed prior to construction. This requirement does not apply to pipelines installed in previously disturbed areas such as road allowances by ploughing or continuous trenching.

Construction – Pipelines

19. The Licensee shall, prior to constructing components of the Development on or adjacent to highway and road rights-of-way, obtain all necessary approvals from Manitoba Infrastructure.
20. The Licensee shall not release chlorinated water from pipeline testing and startup activities associated with the Development to a surface water body until total residual chlorine concentrations are equal to or less than 0.02 milligrams per litre. Releases of chlorinated water at higher concentrations may be made to vegetated land or dry waterways, provided that total residual chlorine concentrations have decayed to 0.02 milligrams per litre or less before the released water reaches any body of surface water.
21. The Licensee shall construct waterway crossings on flowing waterways by augering, tunneling or boring. Open cut crossings on flowing waterways shall not be made unless prior consultation with Manitoba Conservation and Climate and Department of Fisheries and Oceans staff has occurred and the prior written approval of the Director has been obtained. Dry or non-flowing (i.e. hydraulically unconnected to downstream flowing water) natural and artificial waterways may be crossed with open cut techniques where approval has been obtained where necessary from the authority responsible for the channel.
22. The Licensee shall, where conditions allow, excavate endpoints for directional drilling operations a minimum of 30 m from the high water mark of third and higher order waterways, and a minimum of 15 m from the high water mark of first and second order waterways.

23. The Licensee shall construct open cut stream crossings associated with the Development in accordance with the methodologies described in the October, 2005 publication “Pipeline Associated Watercourse Crossings Third Edition”, published by the Canadian Pipeline Water Crossing Committee, and the May, 1996 publication “Manitoba Stream Crossing Guidelines for the Protection of Fish and Fish Habitat”, published by the Department of Fisheries and Oceans and Manitoba Natural Resources.
24. The Licensee shall, where open cut stream crossing techniques are used on intermittent waterways and artificial drainage channels:
 - a) not construct open cut crossings associated with the Development between March 15 and June 15 of any year; and
 - b) minimize disturbance to riparian areas and restore the bottom and banks of the waterways to their original elevations and shapes.
25. The Licensee shall not alter local drainage patterns by the construction of the Development.
26. The Licensee shall separate and replace topsoil from backhoe and trenching operations associated with the Development in accordance with the methodology described in Figures 1, 2 and 3 attached to this Licence. This requirement is not applicable where the topsoil has been previously disturbed due to the construction of roads or drains.

Operation

27. The Licensee shall obtain and maintain classification of the Development pursuant to the Water and Wastewater Facility Operators Regulation, or any future amendment thereof and maintain compliance with all requirements of the regulation including, but not limited to, the preparation and maintenance of a Table of Organization, Emergency Response Plan and Standard Operating Procedures.
28. The Licensee shall carry out the operation of the Development with individuals properly certified to do so pursuant to the Water and Wastewater Facility Operators Regulation, or any future amendment thereof.
29. The Licensee shall operate the Development with respect to the volume and rate of water diverted in accordance with a Water Rights Licence issued pursuant to The Water Rights Act.
30. The Licensee shall develop, maintain and implement a wellhead protection plan for the wells of the Development that addresses disruption and contamination due to natural disasters, spills of contaminants and vandalism.

Monitoring and Reporting

31. The Licensee shall, unless otherwise specified in this Licence:
 - a) carry out all preservations and analyses on liquid samples in accordance with the methods prescribed in the Standard Methods for the Examination of Water and Wastewater, or in accordance with equivalent preservation and analytical methodologies approved by the Director;

- b) carry out all sampling of, and preservation and analyses on, soil, compost, and air samples in accordance with methodologies approved by the Director;
 - c) have all analytical determinations undertaken by an accredited laboratory; and
 - d) report the results to the Director, in writing and in an electronic format acceptable to the Director, within 60 days of the samples being taken.
32. The Licensee shall develop and implement a groundwater level monitoring program for the Development. The program shall address monitoring well locations, monitoring frequency and equipment to be used in monitoring.
33. The Licensee shall conduct an effluent monitoring program as described in Clauses 34 to 37 of this Licence, for a period of two years commencing with the operation of the Development. Following this period, the duration of the monitoring program may be extended by the Director or Environment Officer if the results, in the opinion of the Director, indicate that a longer monitoring period is appropriate.
34. The Licensee shall, in each season of the year for the duration of the effluent monitoring program, collect grab samples at locations approved by the Environment Officer:
- a) in the raw water entering the water treatment plant;
 - b) in the concentrate water stream within the water treatment plant;
 - c) in Cooks Creek upstream of the concentrate water discharge point; and
 - d) in Cooks Creek not less than 100 metres downstream of the concentrate water discharge point.
35. The Licensee shall transport the grab samples collected pursuant to Clause 34 of this Licence, to an accredited laboratory for analysis. The samples shall be stored and transported in accordance with procedures specified by Manitoba Conservation and Climate to ensure that the samples are suitable for analysis.
36. The Licensee shall, at an accredited laboratory, have the samples collected pursuant to Clause 34 of this Licence, analysed for the following parameters:
- a) calcium
 - b) hardness as CaCO_3 ;
 - c) chloride;
 - d) nitrate;
 - e) conductivity; and
 - f) total dissolved solids.
37. The Licensee shall, not more than 30 days after the results of each analysis are available, submit the results to the Environment Officer responsible for the administration of this Licence.

Alterations

38. The Licensee shall notify the Director and receive the approval of the Director for any alterations to the Development as licensed, prior to proceeding with such alterations.

REVIEW AND REVOCATION

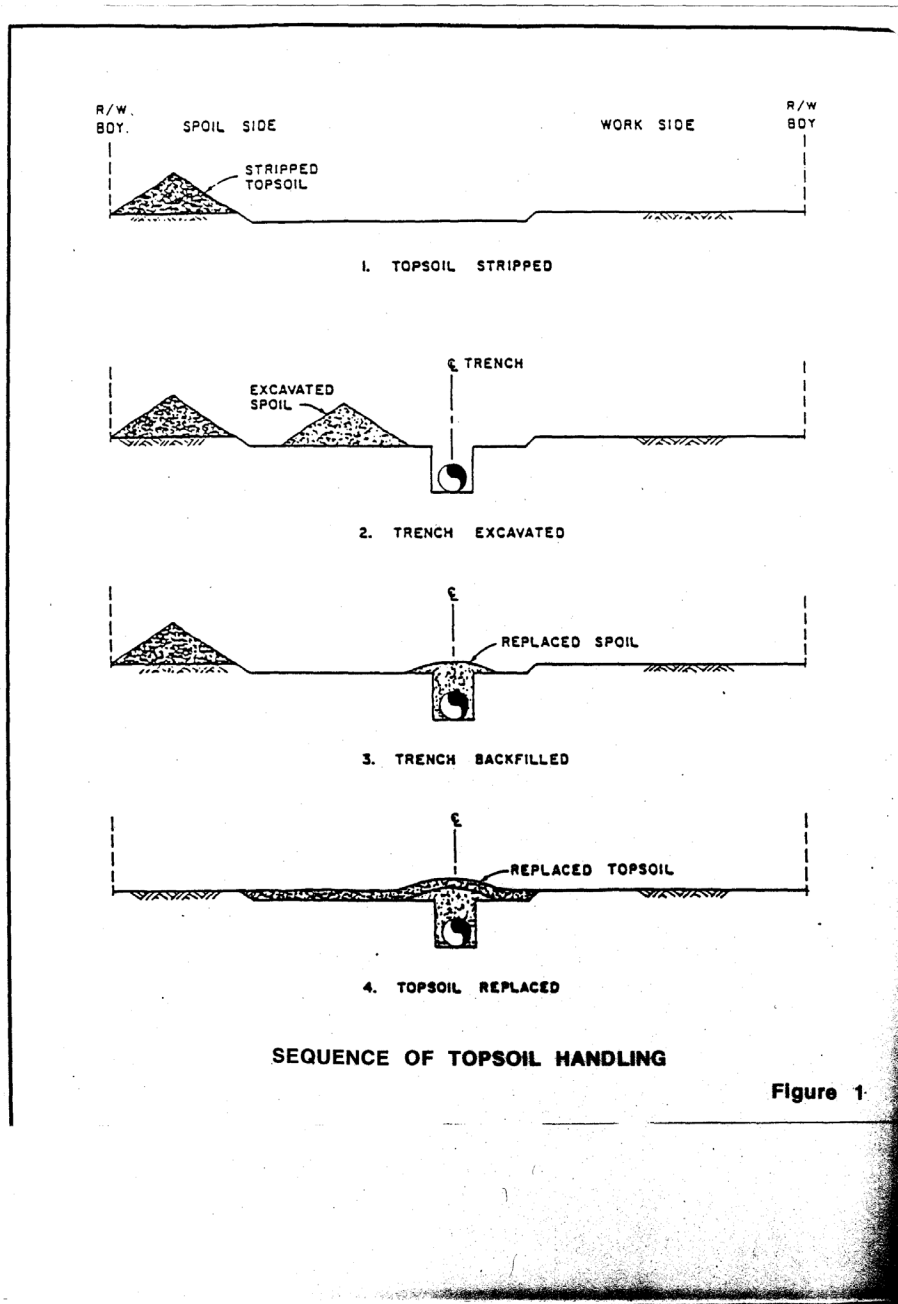
- A. If, in the opinion of the Director, the Licensee has exceeded or is exceeding or has failed or is failing to meet the specifications, limits, terms, or conditions set out in this Licence, the Director may, temporarily or permanently, revoke this Licence.
- B. If the Licensee has not commenced construction of the Development within three years of the date of this Licence, the Licence is revoked.
- C. If, in the opinion of the Director, new evidence warrants a change in the specifications, limits, terms or conditions of this Licence, the Director may require the filing of a new proposal pursuant to Section 11 of The Environment Act.

Original Signed by

Laura Pyles, A/Director
The Environment Act

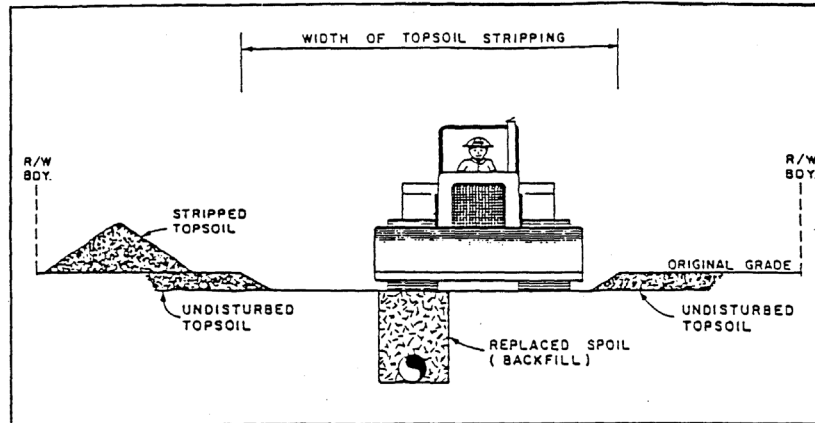
Figure 1 to Environment Act Licence No. 3360

Rural Municipality of St. Clements – East Selkirk Water System Upgrade



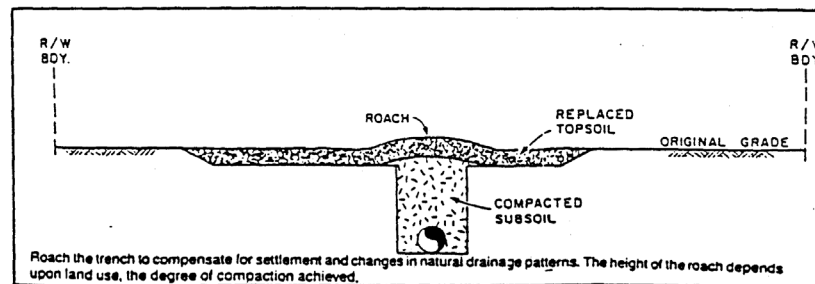
Figures 2 and 3 to Environment Act Licence No. 3360

Town of Beausejour Water Supply System



COMPACTION OF BACKFILL

Figure 2



ROACHING THE TRENCH

Figure 3