



Section 9.0 Monitoring

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9.1 POINT SOURCE PARTICULATE AND GASEOUS EMISSIONS

The point source particulate and gaseous emissions from the proposed OlyWest pork processing facility will be typical of meat processing and protein recycling facilities. Point source air emission testing is not planned because air emissions have not generally been found to be a problem at other meat processing facilities. Should air emissions become a concern of Manitoba Conservation in the future, OlyWest commits to conducting air emissions monitoring at the proposed OlyWest pork processing facility.

9.2 AMBIENT ENVIRONMENTAL QUALITY

9.2.1 Air Quality

Ongoing background ambient air quality test results are available from Manitoba Conservation in the Manitoba Ambient Air Quality Annual Reports. A summary of air quality data for downtown Winnipeg from 1995 to 2004 can be found in Section 2.9. Appendix C also includes a summary of the parameters measured at the 65 Ellen Street monitoring station in downtown Winnipeg. Manitoba Conservation's Annual Air Quality Reports do not include data on volatile organics, odour or noise.

9.2.2 Groundwater

OlyWest will monitor ambient environmental groundwater quality on-site as described in the following section.

9.3 GROUNDWATER

OlyWest will conduct a groundwater monitoring program on-site during the operation of the proposed pork processing facility. Initially the monitoring will occur on a regular basis and if no significant impacts are detected, the monitoring program will be scaled back to a lower monitoring frequency. Monitoring of groundwater will be undertaken around the proposed site to ensure that, in the remote circumstance of groundwater pollution originating from the facility, contaminants could be cleaned up before they might migrate off the site. The program would be developed through consultation with Manitoba Conservation, if requested, and would likely involve groundwater monitoring well installation at selected up gradient and down gradient locations around the proposed site. Sampling protocols will vary according to the relative well location and monitoring requirements. The protocols will include both up-gradient and down-gradient monitoring of the groundwater. The sampling frequency will vary, although they will be collected at least annually and analyzed for the following parameters: total nitrogen, total phosphorous, pH, sulphates, conductivity, water surface elevation, temperature, etc. Results of the analyses would be forwarded to Manitoba

Conservation on an annual basis, if required, or as otherwise specified in the Environment Act License.

9.4 LIQUID EFFLUENT

As a matter of day-to-day operations the proposed OlyWest facility will collect samples and monitor their effluent to maintain the efficiency of their pre-treatment system. They will collect these effluent samples on a monthly basis. Twenty-four hour composite wastewater samples will be collected following the pre-treatment system and analyzed for BOD, soluble BOD, COD, soluble COD, ammonia nitrogen, total nitrogen, TSS, total oil & grease, total phosphorous, alkalinity and pH.

9.5 SURFACE WATER RUNOFF

Surface water runoff from the proposed OlyWest site will be conveyed by ditches and catch basins, which will drain by gravity to a retention pond. Surface water runoff collected from the hog unloading bays (immediately southeast of the holding facility) will be diverted to the City of Winnipeg sewer system. Oil and grease from parking areas are not anticipated to present an environmental risk and therefore there is no intention to analyze storm water samples on a regular basis.

9.6 LAND APPLICATION OF TRUCK WASH SCREENINGS, TRUCK BEDDING MATERIAL AND SOLID MANURE

All collected truck wash screenings, truck bedding material and solid manure from the holding facility will be moved off-site daily and stored in compliance with regulations set by *MLMMMR*. The sampling, monitoring and application of this material will also follow *MLMMMR*. If there are problems with this disposal method, the material will be sent to a landfill which operates with an environmental license.