

PURPOSE: To provide details of a procedure by which the sewage lagoons can be treated in a consistent manner and to provide for the safety of workers.

PROCEDURE:

1. The amount of aluminum sulphate required to reduce the phosphate to an acceptable level prior to discharge, will be determined by Ministry of Environment testing; this will be done at least once per year.
2. One (1) large bag or two (2) small bags of alum will be put into a barrel on shore and water, from the lagoons, will be added by means of a portable pump; this solution must be thoroughly mixed.
3. After mixing, the liquid will then be pumped into a barrel that is secured in and to the boat.
4. While performing the functions outlined in 2. and 3., each person will wear goggles and rubber gloves.
5. The operator of the boat must wear an approved personal floatation device (life jacket), remain in the seated position while away from shore and ensure that one pair of oars are in the boat. There must be a second life jacket readily available to the person on shore, in case the boat operator is in the water and needs assistance.
6. The operator of the boat will open the valve attached to the barrel and then drive around the lagoon until the barrel is empty. The procedures in 2., 3., and 6. will be repeated until the predetermined amount of alum has been added to the lagoon cells.
7. The operator of the boat will make sure that alum liquid has been discharged in all areas of each lagoon cell.
8. All equipment must be cleaned thoroughly upon completion of treatment.
9. After alum completed flocculation, the valve on the north cell can be opened partially and the boards in the flu between the cells taken out to allow discharge of effluent.

County of Elgin

Section:

Human Resources Policy Manual

Subject: **Treatment of Sewage Lagoons**

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10. The valve on the north cell can be closed and the boards replaced in the flu when there is approximately one (1) foot of water left in the cells.

11. The berm must be checked for damage, as well as any signs of muskrats that might be living there, and reported to the supervisor.

NB: Due to the remote location of the lagoons, at **NO** time during the treatment process will any worker be left alone unless it is imperative to get emergency assistance, and the following equipment and supplies must be at the work site and used as per instructions.

SAFETY EQUIPMENT:

- ◆ Two (2) approved life jackets
- ◆ One (1) floating throw ring with twenty-five (25) foot rope
- ◆ Two (2) pair of rubber gloves
- ◆ Two (2) pair of goggles
- ◆ Two (2) emergency eye wash kits (saline)
- ◆ One (1) five (5) gallon (25L) container of potable water
- ◆ One (1) container of disinfectant hand soap
- ◆ Each worker must have a set of keys on their person for the locks at the gates and for any vehicle at the site.