The purpose of this study was to find a better clustering of garbage
pick-up area and a better sequence of collection waste from the garbage pick-
up point. In this study, we decided to study in Bang Khean District.
A heuristic approach was introduced to solved the problem. The objective in
solving the problem was to design a route that minimize the total travel
distance and satisfy all capacity of vehicle and amount of trip constraints.
The procedure had three step. First, we used a traveling of salesman problem
to routing a giant tour. Second, a solid waste collection area was
districted. Third, we designed an optimal route of vehicles.

Finally we find that the total travel distance decrease 15.75% and
four vehicle increase frequency of waste collection from 1 service/3 days to
1 service/2 days and another one increases from 1 service/3 days to 1
service/1 day. This result indicate that the scheduling and routing of
vehicle by the heuristic approach increase efficiency of system.