## ATTACHMENT G1 - RESOURCE USE AND ENERGY EFFICIENCY

The quantities of raw materials to be consumed in the restoration of the worked out quarry void at Huntstown are summarised in Chapter 2, Paragraphs 2.55 to 2.59 of the Environmental Impact Statement.

The waste recovered at this waste facility generally comprises inert soil and stone. No process related raw materials, intermediates or products etc. will be used or generated by waste recovery activities at the site. In the absence of any putresible waste at the facility, there will be no requirement to use rodenticides and insecticides to control vermin and insects.

There will be no increase in energy requirements for the office, canteen and staff welfare facilities as the existing facilities used for quarrying and production of related construction materials and will be used by staff working at the proposed waste recovery facility. All required lighting, heating etc. will be provided by existing connections to the electricity supply network.

Earthworks equipment placing and compacting the imported soil and stone will be powered by diesel fuel. Refuelling of all mobile plant (bulldozers / mechanical excavators) will take place on existing sealed surfaces around existing maintenance sheds or using double skin bowsers.

Assuming inert waste is imported, placed and recycled at the application site for 50 weeks each year over a 18 year period (900 weeks) the diesel fuel consumed by the placement, compaction and recovery of inert waste and ancillary activities is assessed as follows:

	Fuel Consumption	Fuel Consumed
Waste Placement and Compaction	14. mg	
Bulldozer	300 litres / week	270,000
Mechanical Excavator	250 litres / week	225,000
Other	Six toda	
Site Vehicles (1 No.)	50 litres / week	45,000
institut		
Total Fuel Consumption	600 litres / week	540,000 litres

Note that the assessed fuel consumption is based on the following assumptions:

- (i) there will no improvement in fuel efficiency of mechanical plant and site vehicles over the operational life of the facility
- (ii) no alternatives to diesel fuel will become commercially available over the operational life of the facility.

The proposed placement, compaction and recovery of approximately 7,200,000 tonnes of inert soil and stone over an assumed 18 year period is therefore estimated to consume a total of 540,000 litres of diesel fuel.