91381R



# **Level 3 Business Studies 2021**

91381 Apply business knowledge to address a complex problem(s) in a given global business context

Credits: Four

## RESOURCE BOOKLET

Refer to this booklet to answer the questions for Business Studies 91381.

Check that this booklet has pages 2–3 in the correct order and that none of these pages is blank.

YOU MAY KEEP THIS BOOKLET AT THE END OF THE EXAMINATION.

#### RESOURCE A: The production process for Pristine Recycling

#### **COLLECTION**

Collection sites are located in all cities. Plastic waste from surrounding areas is delivered by local district trucks, and prepared for transportation to *Pristine Recycling*'s factory. Excess plastic is sent to landfill.



#### **SORTING**

Plastic waste is transported to the factory in Petone, where it is sorted into recyclable and non-recyclable categories.



#### **CLEANING**

Recyclable plastic is cleaned at the factory in preparation for manufacturing.



#### **MANUFACTURING**

Cleaned recyclable plastic is converted at the factory into plastic pellets, which are then used to make new products, such as road cones, outdoor furniture, and wheelie bins.

### **RESOURCE B: Sorting machine breakdown hours**

	2019	2020
Average weekly breakdown hours for sorting machine	10	25

## **RESOURCE C:** Comparison of sorting machines

	Model A	Model B	
Country of origin	India	Norway	
Price	\$17.2m	\$18.9m	
Return on investment	11%	13%	
Waste processing capacity	1.0 tonne per hour	1.4 tonnes per hour	
Energy efficiency (highest value is best)	7.0	8.2	

## **RESOURCE D: Comparison of collection companies**

	Zen Recycling Less Solutions		
Cost per kg of plastic collected (NZ\$)	\$0.13	\$0.18	
European Sustainability	4th in category for	1st in category for	
Awards	environmental impact, 2020	environmental impact, 2020	
Customer approval rating	90%	72%	
Head office location	Helsinki, Finland	Oslo, Norway	

## **RESOURCE E: Labour costs in Norway**

The average wage in northern European countries is much higher than in New Zealand;

businesses looking to set up operations in Scandinavia.

Sources

 $www.averages alary survey.com/new-zeal and\\www.averages alary survey.com/norway$ 

www.xe.com