Environmental science

I am ----, a third year undergraduate student pursuing Bachelor of Science in environmental science at Egerton University. I am tasked with conducting a research on the negative impacts of mining on our natural environment. This questionnaire will therefore require you to respond to a few questions regarding your experience, observations and perceptions pertaining to mineral extraction and will only take about 10 -20 minutes of your time. Your contribution will be of great assistance in accomplishing the objectives of this study and it will be highly appreciated. The information you will provide in this questionnaire will be available for professional use but the source of this information will not be disclosed under any circumstances whatsoever.

The main purpose of this study is to trace the direct and indirect impacts to the environment as a result of mineral extraction. This has led to environmental degradation, pollution and resource depletion which in turn has led to increased incidences of poverty. Examples of these mining activities includes; extraction of construction stones, fluorspar, titanium, soda ash, magnesite, oil drilling among others which have profound effects on the environment and the wellbeing of humans.

The results of this study will be used by National Environmental Management Authority, ministry of environment and natural resources amongst other concerned authorities to find out the extent of environmental degradation due to pollution, soil erosion and loss of biodiversity. They will also use this information to come up with possible counter measures in order to minimize or eradicate the impacts of mining. These mitigation measures could include product substitution, recycling and use of alternative sources of energy which will enhance sustainability. This questionnaire has been divided into four sections as follows and you are required to tick on your preferred choice only once.

**EFFECTS OF MINING ON THE ENVIRONMENT**

INTERVIWER NAME:

DATE:

LOCATION:

NORTHINGS

EASTINGS

INFORMANTS NAME:

1. **PERSONAL INFORMATION**
   1. Age

18-25 [ ]

26-35 [ ]

36-55 [ ]

Above 56 [ ]

* 1. Gender

Male [ ]

Female [ ]

* 1. Marital status

Married [ ]

Single [ ]

* 1. Education level

Primary school [ ] Secondary school [ ]

Tertiary level [ ]

**CAUSES OF ENVIRONMENTAL DEGRADATION**

* 1. According to you, does any mining activity such as quarrying and removal of overburden causes land disturbance?

Strongly agree [ ]

Agree [ ]

Not sure [ ]

Disagree [ ]

Strongly disagree [ ]

* 1. Do mining activities contaminate the various parameters of the environment such as air, soil and water?

Strongly agree [ ]

Agree [ ]

Not sure [ ]

Disagree [ ]

Strongly disagree [ ]

* 1. Population growth has led to increased mining activities.

Strongly agree [ ]

Agree [ ]

Not sure [ ]

Disagree [ ]

Strongly disagree [ ]

* 1. Apart from mining, do other activities such as deforestation, urbanization and industrialization cause environmental degradation?

Strongly agree [ ]

Agree [ ]

Not sure [ ]

Disagree [ ]

Strongly disagree [ ]

**NEGATIVE IMPACTS OF MINING ON THE ENVIRONMENT**

* 1. Mining results to pollution of surface, subsurface and ground water.

Strongly agree [ ]

Agree [ ]

Not sure [ ]

Disagree [ ]

Strongly disagree [ ]

* 1. Loss of agricultural soil, siltation and sedimentation of rivers and other water bodies is due to mining.

Strongly agree [ ]

Agree [ ]

Not sure [ ]

Disagree [ ]

Strongly disagree [ ]

* 1. Accumulation of heavy metals such as lead, zinc, cadmium and mercury on the environment is caused by mining activities.

Strongly agree [ ]

Agree [ ]

Not sure [ ]

Disagree [ ]

Strongly disagree [ ]

* 1. Mining activities interferes with habitats for a variety of organisms ranging from aquatic to terrestrial ecosystem.

Strongly agree [ ]

Agree [ ]

Not sure [ ]

Disagree [ ]

Strongly disagree [ ]