

## **Dept. of Vet .Public Health // Environment pollution :**

**Environment:** the external elements and conditions which surround and affect the life and development of organisms

**Polution:** it is introduction of contaminants in to environment that cause:

1. Damage environment(such chemical substance, or energy such noise,heat)
2. Harm to human or living organism

### **Type Pollution:**

1. Air pollution
2. Soil pollution
3. Water pollution

### **Air pollutants include:**

1. So<sub>2</sub>
2. Ammonia
3. NO<sub>2</sub>
4. Airborn particle
5. CO

### **Water Pollutants include:**

1. Heavy metal
2. Pollutant from livestock operations
3. Insecticides and herbicides

### Soil pollutants include:

1. Solvents
  2. Heavy metals
  3. Hydrocarbons
- ✓ Combustion of fossil fuels produce high levels of **air pollution** also contribute to **soil contamination** and **water pollution**
  - ✓ For example when oil is transported from the point of its production to further destinations by pipelines,an oil leak from pipeline may occur and pollute soil and subsequently ground water.
  - ✓ When oil is transported by tankers by Ocean,an oil spill may occur and pollute Ocean water

### Type Water:

1. Safe Water:Water which cannot harm consumer
2. Palatable Water:Water of agreeable taste .it may be safe or not
3. Potable water:water which is safe and with agreeable taste
4. Polluted Water:the water which contains infective and parasitic agent and poisonous chemical substances,industrial waste,or sewage

### Characteristics of Safe Water:

1. Free from pathogenic agents
2. Free from harmful chemical
3. Free from Odor and Color

- ❖ **Need of water to animal is different according to species of animal,age**

Water in nature is consist about  $\frac{2}{3}$  from earth surface and there are three nature of earth :

1. River
2. Rain
3. linde

**Air pollution**: is release any substance(chemicals or airborn particles)in to atmosphere which harmful to humans and animals.

**Humidity**:is amount of water steam that present in air.

**Source of humidity**:

1. Sweating or breathing
2. Fluid defecation
3. Bad ventilation
4. Urine
5. Decrease temperature

**Raise of humidity lead to** :

1. Activity of pathogenic microorganism environment
2. Number of insect that present in environment
3. Number and kind carrier and host for silent disease
4. Moisture of earth lead to growth skin pathogenic agent and external parasite.