

Practical Geology for Engineering Students

Lab No.

Name of Student

Sedimentary Lab

1-Description of Terrigenous Soils and Rocks*:

Grain Size	Class	Deposits (Soil)	Texture	Rocks
> 2 mm	Rudaceous	Gravels	v. coarse - Rounded	Breccia
			v. coarse - Angular	Conglomerate
2- 1/16 (0.06) mm	Arenaceous	Sands	Siliceous Cement	Sandstone
			Calcareous Cement	
			Hematitic Cement	
1/16 - 1/156 (0.06)-(0.004) mm	Aargillaceous	Silts	Fine grained	Mudrocks
< 1/256 mm		Clays	massive	
			Fissile	Shale

Colour:

Texture:

Grain Size: > 2 mm, 2- 1/16 mm, 1/16 - 1/156 mm or < 1/256 mm

Roundness: Angular, Subangular, Subrounded and Rounded.

Structure: Massive, Laminated, Fissile

Cement:

- Siliceous (colourless/white and doesn't react with HCl).
- Calcareous (colourless/white and reacts with HCl with effervescence).
- Hematitic/calcareous (Red coloured & reacts with HCl with effervescence).
- Hematitic/ Siliceous (Red coloured and doesn't react with HCl).

Fossil content:

- Fossiliferous
- Non-fossiliferous

Type:

Name:

* Samples to be studied: Many samples under the 8 names as in the shaded columns of the above given table

2-Limestones

Colour:.....

Structure:

Carbonate mud (Fine crystalline limestone).

Oolites

Skeletal remains (Shells, corals,etc)

Cement:

Siliceous (Hard and weak reaction with HCl)

Calcareous (Soft white and reacts with HCl with strong effervescence).

Hematitic (reddish stained)

Fossil Content:

Fossiliferous

Non-fossiliferous

Type:.....

Name:.....

Samples to be studied: Many samples under only the following names:

1-Chemical Limestone

2-Biochemical Limestone

3-Evaporites

Colour:

Mineral Composition:

Fossil Content:

Fossiliferous

Non-fossiliferous

Type:.....

Name:.....

Samples to be studied: Many samples under only the following names:

1-Gypsum

2-Anhydrite

3-Rock Salt

Sample No	Colour	Texture/Structure	Cement	Type Terrigenous/Chemical	Name
1					Gravel / Rudaceous Soil
2					Sands/ Arenaceous Solil
3					Argillaceous soil
4					Conglomerate
5					Breccia
6					Sandstone
7					Siltstone
8					Shale
9					Claystone
10					Chemical Limestone
11					Biochemical Limestone
12					Gypsum
13					Ahhydrite
14					Rock Salt

