Names:	Date:
Soil	Soil Core Worksheet I core sampling device broblem that you are trying to solve with your design.
Part 1: Design of soil core sampling Problem: Define the problem that you	
Materials: List the materials that you n	need for your design.
Design: Draw a sketch of your design materials that you are using.	here. Remember to label materials and measurements of
Performance standards: Describe how	will you evaluate your design? (function, safety, size, etc.)

Part 2: Soil core analysis

Now that you have taken a soil core sample, fill out the following *borehole log* with your observations.

	Borehole Log
Soil core time:	
Date completed:	
Studied by:	

Log of Well					
DEPTH (Measure depth of layer from top)	GRAPH (Draw layers here)	Fraction of sample (Calculate %)	COLOR Description	GRAIN DESCRIPTION	

Part 3: Communicate your results

1. How well did your sampling device work (in Part 1)? What changes would you make if you were to redesign your sampling device?

2. Describe the overall soil quality of your sample. What were the main soil components? What fraction of the sample were rocks, clay or sand?

3. You are a geotechnical engineer who has taken this soil core as a part of an environmental site assessment for a company who is planning to develop a housing community in the area. What recommendations would you make to this company about building here? Is the soil sturdy enough to develop on? How might clay affect their development?