



**Open**

**EXPERIMENT NO. 5**  
**SAND CONE TEST**

**PURPOSE:**

The sand cone test determines soil or base material density to make sure it meets the specification for the project.

**STANDARD REFERENCE:**

ASTM D - 1556

**EQUIPMENT:**

1. Sand container
2. Metal Funnel (Sand-Cone)
3. Base Plate
4. Weighing scale
5. Oven or other suitable equipment for drying moisture content samples
6. Chisels, hammers, picks, and spoons
7. Others may need: suitable containers for retaining density samples, moisture samples, and salvaged density sand

**DATE TESTED:** November 5, 2018

**TESTED BY:** Group 4

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- Nhor Jhaica Guisang
- Randy Mandabon
- Jeffrey Masinadong
- Crestito Emil Cuarteros
- Ronald Cadaa
- Jess Atugan

**TEST PROCEDURE:**

1. Fill the jar with a standard sand—a sand with known density—and determine the weight of the sand cone apparatus with the jar filled with sand (W1). The American Society for Testing and Materials (ASTM) recommends Ottawa sand as the standard.
2. Determine the weight of sand to fill the cone (W2).
3. Excavate a small hole in the soil and determine the weight of the excavated soil (W3).
4. Determine the water content of the excavated soil (w).
5. Fill the hole with the standard sand by inverting the sand cone apparatus over the hole and opening the valve.
6. Determine the weight of the sand cone apparatus with the remaining sand in the jar (W4).
7. Calculate the unit weight of the soil as follows:

$$\text{Weight of sand to fill hole} = W_s = W_1 - (W_2 + W_4)$$

Chapter 4

MANUFACTURE, TEST DESIGN AND ANALYSIS

4.1 DETERMINATION

Soil test procedures can be divided into two main categories: physical methods and chemical methods. The physical methods are based on the properties of soil and its behavior under different conditions. The chemical methods are based on the properties of soil and its behavior under different conditions.

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- (a) Soil test procedures can be divided into two main categories: physical methods and chemical methods. The physical methods are based on the properties of soil and its behavior under different conditions. The chemical methods are based on the properties of soil and its behavior under different conditions.
- (b) Soil test procedures can be divided into two main categories: physical methods and chemical methods. The physical methods are based on the properties of soil and its behavior under different conditions. The chemical methods are based on the properties of soil and its behavior under different conditions.
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- (d) Soil test procedures can be divided into two main categories: physical methods and chemical methods. The physical methods are based on the properties of soil and its behavior under different conditions. The chemical methods are based on the properties of soil and its behavior under different conditions.

These are three types of soil test procedures: physical, chemical, and biological. Physical soil test procedures are used to determine the physical properties of soil, such as texture, consistency, and particle size distribution. Chemical soil test procedures are used to determine the chemical properties of soil, such as pH, nutrient content, and organic matter content. Biological soil test procedures are used to determine the biological activity of soil, such as enzyme activity, microbial population, and soil respiration.

<b>Technip</b>	<b>JGC</b>	<b>tj</b>	PROJECT : DUNG QUAT REFINERY (DQR) PROJECT
QUALITY CONTROL FORM	QCF 101	CLIENT : VIETNAM OIL AND GAS CORPORATION ( PETROVIETNAM )	
COMPACTION TEST REPORT			
ITEM: _____			
DRAWING No.	REV. _____		SH_OF_
UNIT / AREA _____			
Sample No.	1	2	3
Max. Dry Density ( $\gamma_{dmax}$ )			4
Dry Density ( $\gamma_d$ )			5
Percent ( $\gamma_d/\gamma_{dmax}$ )			6
Required Percent			
Moisture Content			
Report No. of Max. Dry Density Test			
Sample No.			
Max. Dry Density ( $\gamma_{dmax}$ )			
Dry Density ( $\gamma_d$ )			
Percent ( $\gamma_d/\gamma_{dmax}$ )			
Required Percent			
Moisture Content			
Report No. of Max. Dry Density Test			
	SUBCONTRACTOR	CONTRACTOR	CLIENT
NAME			
SIGNATURE			
DATE			

**CHAPTER 6 - CONCLUSIONS AND RECOMMENDATIONS**

## 6.1 Summary

This study was conducted to prepare precision estimates for AASHTO T180, "Moisture Density Relations of Soils Using a 4.54 kg (10 lb) Hammer and a 457 mm<sup>2</sup> (1 in.<sup>2</sup>) Drop." An interlaboratory study (ILS) was conducted to collect data from testing facilities across the United States and Canada to determine precision characteristics. In addition, the data from the most recent rounds of AMRL Soil Classification and Compaction Testing were used to estimate precision for optimum moisture. The four blends in the ILS, included two coarse- and fine-grained materials, mixtures that were prepared according to Grading A and Grading B of AASHTO M101, and a soil containing 10% organic material. The maximum dry density of the blends had less than 10% material passing 200 sieve to represent suitable base and subgrade materials. The materials used for ILS included three sets of lean clay and three sets of sand. The materials used for optimum moisture determination were different. Since the materials used for the ILS and PS samples were very different, the precision estimates for optimum moisture cover a wide range of maximum density and optimum moisture content.

- The average maximum density of the fine graded blends is significantly smaller than those of coarse graded blends. However, the standard deviation of the maximum density of the fine and coarse graded blends were the same. Therefore, the precision of maximum density for the fine and coarse graded blends is the same.
- The average optimum moisture content of the fine graded blends is significantly larger than those of coarse graded blends. However, the standard deviation of the optimum moisture content of the fine and coarse graded blends were the same. Therefore, the reproducibility and repeatability standard deviation of optimum moisture content between the ILS blends and PS blends were the same.
- The average maximum dry density of the ILS blends was significantly larger than that of PS blends. In addition, the pooled standard deviation of maximum dry density from PS were significantly smaller than those of ILS. Therefore, the precision of maximum dry density for the ILS blends and PS blends were presented separately in the precision statement of AASHTO T180.
- The average optimum moisture content of the ILS blends was significantly smaller than that of PS blends. In addition, the pooled standard deviation of optimum moisture content from PS were significantly larger than those of ILS. Therefore, the standard deviations from the two sources were presented separately in the precision statement of AASHTO T180.

## 6.2 Conclusions

On the results of the AASHTO T180 interlaboratory study and AMRL Soil

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# ESTIMATING MAXIMUM DRY DENSITY AND OPTIMUM MOISTURE CONTENT OF COMPACTED SOILS

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## Abstract

Laboratory determination of compaction properties namely the maximum dry density and optimum moisture content is both time consuming and costly. Therefore, it is useful if simple correlation equations can be developed to estimate the compaction properties using relatively easier index properties test. This study aim to investigate the relationship between maximum dry density and optimum moisture content and their correlation function with index properties. Based on the results of nine soil samples using standard proctor compaction test, the maximum dry density and the optimum moisture content was well correlated. These two compaction properties have much better correlation with the plasticity index than they have with other index properties. Three best predictive models were proposed to estimate the compaction properties based on multilinear regression (MLR) analyses. Additional variables are included in the MLR analyses such as grain size distribution and specific gravity other than the index properties. The recommended model requires only the plasticity index and specific gravity.

**Keywords:** Maximum dry density, Optimum moisture content, Index properties, Regression analyses

### **i. Introduction**

Compaction of soil by mechanical mean is a common soil modification method to improve the engineering properties of soils. The effectiveness of the compaction is usually measured by the soil's moisture content and dry density in referenced to maximum dry density (MDD) and optimum moisture content (OMC). Understanding of the soil compaction properties (MDD and OMC) is important in construction project such as earth dams, road and railway embankments, landfill liners and backfills of retaining structure. However, considerable of time and effort are required in the laboratory tests in order to obtain the compaction

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Standard proctor compaction test lab report politeknik. Standard proctor compaction test lab report discussion. Standard proctor compaction test lab report conclusion. Standard proctor compaction test lab report scribd. Standard proctor compaction test lab report pdf.

The Proctor standard test is performed to study or understand the compaction characteristics of a soil with varying moisture content. Weight of compacted soil  $M = (2) \times (1) / 4$ . Soil compaction test report The following is the soil compaction test report, Image Courtesy: Image1 and Image2 FAQ: Standard Proctor Test Standard Proctor Test - Test Conducted to find out the compaction characteristics of different soil types with respect to changes in moisture content. If the percentage of soil retained on the 4.7 mm sieve is higher than 20, then choose the 150 mm day mold for the test, and if the percentage of soil retained on the 4.7 mm sieve is less than 20%, then choose the 100 mm day mold for the test. Now, combine the percentage of soil passing through 4.75 mm and hold at 4.75 together to prepare at least 16 to 18 kg of soil sample for the test. Take the proctor standard test pattern with the dry base plate and clean it properly and apply a light grease to the inside. Measure the mold weight accurately from the base plate accurately on the base plate. 1 g. Benefits of soil compaction The following are the main benefits of soil compaction, increases bearing capacity and stability Permeability (hydraulic conductivity) decreases Freeze-thaw cycles have reduced heating Erosion can be controlled Subtraction down History and Use of the Proctor Test It has been known for a long time that soil moisture, especially Kosiv soils, has a direct effect on the efficiency with which they can be prepared by construction equipment. A more detailed explanation of the triphasic nature in soil is provided on soil as a triphasic system. When subjected to stress, soil particles are redistributed within the soil mass and the void volume decreases, resulting in condensation. Bulk Density,  $\gamma = 5.5$ , water content,  $W_e = 6$ . Once the soil is filled to remove the top necklace from the mold. Cut and remove the extra soil coming from the template with edge straight. Now the weight template with soil sample as  $W_2$ . 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Proctor Compaction Test Proctor compaction test measures the maximum unit load that a particular type of soil can be compacted to use a controlled compact force at an optimal water content. of the mold = Mould Height = Mould Volume, V= Spe, gravity of soil solids, G= Observation Table: Sr. No. Descriptions Smple No. 1 2 3 Observations: 1. It is the most common laboratory soil test and is the basis for all engineered compact soil placements for embankments, pavements and structural mills, mills.

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