



**PARA:** *PREFECTURA DEL GUAYAS*  
**PROYECTO:** *REHABILITACION DE LA VIA CONEXIÓN E30 - PEDRO VELEZ - CARLOS JULIO AROSEMENA*

**C#4 - MUESTRA # 4**

**DESCRIPCIÓN DE MUESTRA:** *Limo arenoso café oscuro*  
**ESPECIFICACIONES:** *humedad natural: 45.86%*

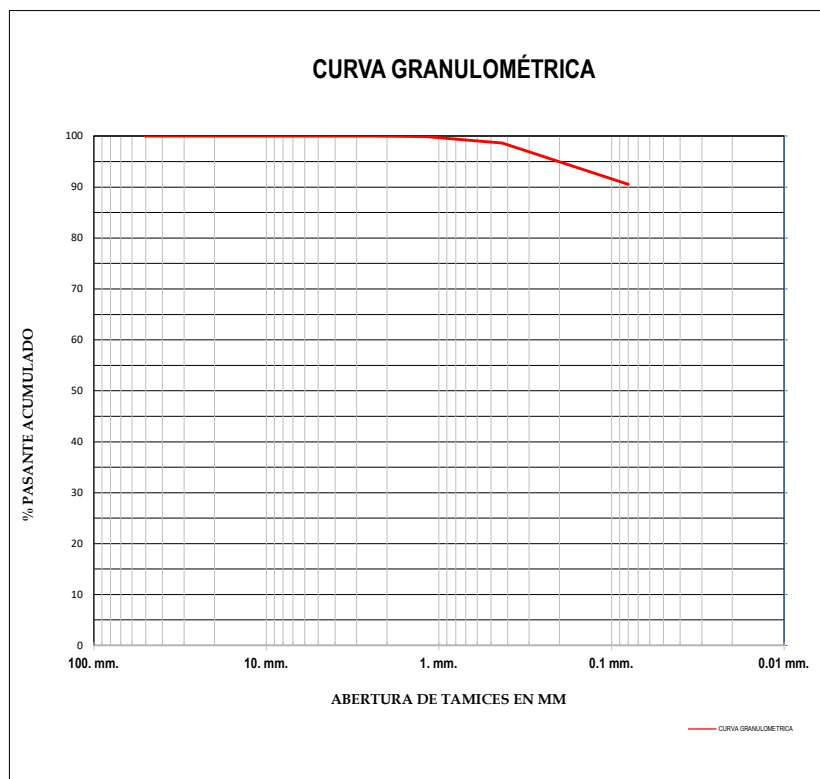
**LÍMITES DE ATTERBERG**  
**NORMA: ASTM D4318**

|                       |            |                         |            |
|-----------------------|------------|-------------------------|------------|
| <i>Limite Líquido</i> | <i>52%</i> | <i>ESPECIFICACIONES</i> | <i>---</i> |
| <i>Ind. Plástico</i>  | <i>18%</i> |                         | <i>---</i> |

**ENSAYO GRANULOMÉTRICO**  
**NORMA : ASTM D422**

| <b>TAMIZ</b><br><b>#</b> | <b>PESO.</b><br><b>Grms</b> | <b>RETENIDO</b><br><b>%</b> | <b>PASANTE</b><br><b>%</b> | <b>ESPECIF.</b><br><b>AASHTO M-147 / B</b> |
|--------------------------|-----------------------------|-----------------------------|----------------------------|--------------------------------------------|
| 4 "                      |                             |                             | 100.00                     |                                            |
| 3 "                      |                             | 0.00                        | 100.00                     |                                            |
| 2 1/2 "                  |                             | 0.00                        | 100.00                     |                                            |
| 2 "                      |                             | 0.00                        | 100.00                     |                                            |
| 1 1/2 "                  |                             | 0.00                        | 100.00                     |                                            |
| 1 "                      |                             | 0.00                        | 100.00                     |                                            |
| 3/4 "                    |                             | 0.00                        | 100.00                     |                                            |
| 1/2 "                    |                             | 0.00                        | 100.00                     |                                            |
| 3/8 "                    |                             | 0.00                        | 100.00                     |                                            |
| 1/4 "                    |                             | 0.00                        | 100.00                     |                                            |
| No. 4                    |                             | 0.00                        | 100.00                     |                                            |
| No. 8                    |                             | 0.00                        | 100.00                     |                                            |
| No. 10                   | 0.10                        | 0.12                        | 99.88                      |                                            |
| No. 16                   |                             | 0.00                        | 99.88                      |                                            |
| No. 20                   |                             | 0.00                        | 99.88                      |                                            |
| No. 30                   |                             | 0.00                        | 99.88                      |                                            |
| No. 40                   | 1.00                        | 1.25                        | 98.63                      |                                            |
| No. 50                   |                             | 0.00                        | 98.63                      |                                            |
| No. 60                   |                             | 0.00                        | 98.63                      |                                            |
| No. 80                   |                             | 0.00                        | 98.63                      |                                            |
| No. 100                  |                             | 0.00                        | 98.63                      |                                            |
| No. 200                  | 6.50                        | 8.12                        | 90.50                      |                                            |
| Fondo                    | 72.43                       | 90.50                       |                            |                                            |

|               |                |
|---------------|----------------|
| <b>GRAVA</b>  | <b>0.00 %</b>  |
| <b>ARENA</b>  | <b>9.50 %</b>  |
| <b>S.FINO</b> | <b>90.50 %</b> |



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*Jose Antonio Cordova P.*  
*Gerente General*