| PERI | MEABILITY | TEST | ar an | | | ******** | | an an a | |
|---|----------------------|---|---|---------------|---------------------------------------|-----------------|-------------------------------|---|----------|
| (ESS/ | I DE PEI | RMÉABIL | .ITÉ) | | | | | | |
| AME OF SURVEY & LOCALITY FNOMINATION DE L'ENQUÊTE ET LOCALITÉ: | | | | · | | DAT (DAT | | | |
| SAMPLE NO. & DEPTH N'DE L'ÉCHANTILLON ET PROFONDEUR) | <u>I-TP</u> | -7 | 2,51 | m | | TESTE (ESSAI | | | مست |
| APPARATUS NO. N'DE L'APPAREIL) | | NTAINER NO DU RÉCIPIEI | | | SAMPLE (ÉCHANT | | UNDISTURBE | D · DISTURBED REMANE) | : |
| DIAMETER (DIAMETRE) | pm) | | CONDITIONS (CONDITIONS | du spéci | MEN) | | FORE TEST /ANT ESSAL) | AFTER TEST (APRES ESSAI) | |
| DAMETER | | (PO | GHT (CONTAINER+S DS (RECIPIENT+SI GHT OF SPECIMEN | | W | | ,556.15 | 3,569.75 | |
| (DAMĚTRE) | сня) | (PO | DS DU SPÉCIMEN) T DENSITY | | ₩ <i>;</i> =₩′ -\ | | 614.78 | 1,628,39 | |
| USURF DE LA SECTION) | 0111 | (DEN | ISITÉ HUMIDE) GREE OF SATURATI | ÓN N | $\gamma_t = W_t / V(\varphi_t)$ | (cm³) ,(%) | 1.70 | 171 | 1 |
| volume (Volume) V≈AL(« | 11.00 | 16/ 6 | SRÉ DE SATURATIO TER CONTENT NEUR EN EAU) | NJ | | n(%) | <u>88.8</u> 4.3 | 93.9 48.2 | ~- |
| WEIGHT OF CONTAINER W.(| | DR | (DENSITY ISITÉ SÉCHE) | γ,= γ, | /(1+ 100)(g | /c=3) | 1.19 | 1.15 | |
| SPECIFIC GRAVITY POIDS SPÉCIFIQUE) G, | Z.8/ | | d ratio ICE des vides) | | e | | 1.361 | 1.443 | |
| (EST NO. N° DE L'ESSAI) | | 1 | 2 | | 3 | | R CONTENT BE | · · · · · · · · · · · · · · · · · · · | ٦ |
| IME OF INITIAL OBSERVATION IOMENT OU L'OBSERVATION COMMEN | CE) 1, 9/28 9 | :00 AM | 968 9:00 AM | 958 2:00AM | 19: ADAM | | N | a | |
| IME OF FINAL OBSERVATION IOMENT OU L'OBSERVATION FINNIT) | 1 1 1 | 요즘 관계 같이 많이 | 1 | 9129 9:15A | 129 4:00 PH | W | W | | |
| ELAPSED TIME TEMPS ÉCOULÉ) t 2- | t (sec) | 5200 | 27,000 | | 1 1 | W. | W W | | |
| 2 (DIFFÉRENCE DE NIVEAU) | h (on) | | | | | | | | 6 |
| $\begin{array}{c} & \\ \hline \\ \hline$ | | • | ······ | | · · · · · · · · · · · · · · · | | N | x | - |
| ž L/b | | | | | | w. | W | <u>.</u> | |
| Z VOLUME OF DISCHARGE IN t,-t S (VOLUME OF DISCHARGE IN t,-t S (VOLUME D ÉPANCHEMENT EN t,-t | Q(011 ³) | | | | · · · · · · · · · · · · · · · · · · · | W, | | <u> </u> | _ |
| | <u> </u> | | | <u> </u> | <u>+</u> | W _w | W w = | | |
| <u>ــــــــــــــــــــــــــــــــــــ</u> | om/sec) | | | | ····· | | N WATER CONTE | INT | |
| HEAD AT L 1 (DIFF, DE NIVEAU Ă L 1 | h (011) | 30,0 | 130,0 | 130,0 | 130.0 | | w == | 43 % | 6 |
| COFF.DE NIVEAU Ă t₂ | h 2(cm) | 24.7 | 121.5 | 107.8 | 101.9 | | ER CONTENT AF | | ٦ |
| nd (DFF. DE NIVEAU À t₂ A h₁/h₂ | | | | | | - | | 0. | |
| $ \frac{\log_{\lambda_1} (h_1/h_2)}{2} $ | 0. | 01808 | 0.02937 | 0.08132 | 1.10577 | W | W | | |
| ع ل الألم ع ل | | 1.65 | 11.65 | 11.65 | 11.65 | W _b | N N | | |
| $\begin{array}{c} a \cdot L \\ a \cdot L \\$ | | 1426 | 0,1426 | | | | <u>w</u> = | . تو د د د د د کار به سام د د د د | 6 |
| | | 120 × 10 | 8,519×105 | 2.635 ×10 | R,06/-6 | | <u>1</u> | lo. | |
| | | | 3.56789×107 | 3.05561 | 18.10705 × 10 7 | W . | 2,075 W | | |
| WATER TEMPERATURE TEMPÉRATURE DE L'EAU) | | o, <u>5</u> | 30,0 | 30,1 | 29.0 | W. | 1,549 W 526 W | . 458 | |
| μ_{\uparrow}, μ_{15} | | 699 | 0.699 | | 0.714 | | <u>w</u> = | | <u>;</u> |
| $\mathbf{k} \stackrel{\text{\tiny \mathbf{k}}}{=} \mathbf{k}_{\mathrm{T}} \frac{\mu_{\mathrm{T}}}{\mu_{\mathrm{15}}}$ | 2,55 | 908×10 | 2.49396×107 | 2.135# ×10 | 2,2,843 ×108 | | I WATER CONTE UR MOYENNE E | | |
| MEAN VALUE OF k15 | | | 1 853 | | , ,] | | | 48.2 % | <u> </u> |

METERENCE BETWEEN HEAD WATER AND TAILWATER
 (DIFFÉRENCE ENTRE LE MVEAU D' EAU EN TÊTE DE COLONNE ET LE NIVEAU D' ÉPANCHEMENT)
 * * # # COEFFICIENT OF VISCOSITY OF THE WATER AT T'C.
 (#T EST LE COEFFICIENT DE VISCOSITÉ DE L'EAU Ă T'C.
 N. K. FORM NO. 017(1975)

| | BILITY TEST DE PERMÉABILITÉ) | Щарнороди (1997), разование (1 | | | an de mensionen de la trapación de la Constantina de la Constantina de la Constantina de la Constantina de la C |
|--|--|--|------------------|-----------|---|
| NAME OF SURVEY & LOCALITY OF NOMINATION DE L'ENQUÊTE ET LOCALITÉ: | alter for a second second second second second second second | 496-778 A To - 7 - 60 Q 499 A 47 - 5 2 1 4 - 7 A - 9 A - 9 A | | DA (D/ | NTE) |
| SAMPLE NO. & DEPTH (N'DE L'ÉCHANTILLON ET PROFONDEUR) | - TP8 | 2-3 m | | | ED BY I PAR) |
| APPARATUS NO. (N°DE L'APPAREIL) | CONTAINER NO. (N° OU RÉCIPIENT ; | | SAMPLI (ÉCHAN | | |
| $\begin{array}{c c} & & & \\ & & & \\ & & & \\ & &$ | (CON | IDITIONS OF SPE IDITIONS DU SPÉ TAINER+SPECIME | CIMEN) | 0 | BEFORE TEST AVANT ESSAL) |
| (SURF. DE LA SECTION) a (cm ²) DIAMETER | Z.O (PODS (RÉCIP | |) W,=W' – | | 3515.32 |

| | (DIAMĒTRE) | | | DS DU SPÉCIMEN) | | | 3, 9, 4 | 1524.06 | 1628.85 |
|-----------------------|--|--|----------|------------------------------------|--|---------------------------------------|------------------|--------------------------------------|------------------------------------|
| 33 | CROSS SECTIONAL AREA | 51 71 | | T DENSITY |) | .=W,/V(9/ | (⁸ m | | |
| NO W | (SURF. DE LA SECTION) | 31.71 | | ISITÉ HUMIDE] GREE OF SATURATIO | e a le falla de la composición de la c | | | 1.60 | 1.71 |
| SPE SPE | (LONGUEUR) | 1.65 | | GRE DE SATURATION | | S (| (%) | 80.8 | 984 |
| | VOLUME | | 1 | TER CONTENT | | | | | |
| | and the second | 51.92 | | NEUR EN EAU) | ita ita yang Matalah | w (| (%) | 45 | 56,Z |
| | SHT OF CONTAINER W.(g) | | | DENSITY | $\gamma_{i} = \gamma_{i}/2$ | /(1+ <u>;;;;</u>)(g/ | cm 3) | 1.1.4 | |
| | O DU REUFERI J | | | VSITÉ SĚCHE) D RATIO | | | | 1.10 | 1.09 |
| | S SPÉCIFIQUE) G. | 2.84 | - Contra | ICE DES VIDES) | | e | | 1582 | 1.606 |
| | | | | | ананан алтар | | | | |
| | T NO. | 1 | | 2 | | , | | ATER CONTENT BEF | |
| | ΣE L'ESSAI) | • • • • • • • • • • • • • • • • • • • | | | 8/24 | B/-A | L(T) | ENEUR EN EAU AVA | NT ESSAL) |
| (MOM | OF INITIAL OBSERVATION ENT OU L'OBSERVATION COMMENCE) ¹ | 18/1 9:00 | AM | % 9.00AM | 9.000 | 9.004 | | No. | |
| TIME | OF FINAL OBSERVATION | 1-T. | | 127 1.001.1 | DISC 1 | 8/20 | 1 | يشجر فالمحالي المحالي | |
| (MOM) | ENT OU L'OBSERVATION FINNIT) | 4:30 | PM | 8/25 8:00AM | 1:10 M | S: 10 M | W. | | |
| | PSED_TIMEt_=t_(sec | | 1.00 | | | | W | | |
| (TEM | IPS ÉCOULÉ) (1-1,1500 | 27,00 | 0 | 82,800 | 101900 | 112200 | W. | , Ψ, | |
| TS) | (m) head (m) h (m) h (m) |) | | | | | | w = | % |
| O STAP | | | | | | • • • • • • • • • • | | | |
| CONST | $A \cdot (t_2 - t_1)$ | 1.84 | | | | | | No. | |
| D MET | L/b | | . : | | | | W. | W | For the second |
| HEAD S NIVER | | | | | | | W. | W | e |
| 보 입 | VOLUME OF DISCHARGE IN $t_1 - t_1$ (come of Eparchement en $t_1 - t_1$) (come of Eparchement en $t_1 - t_1$) | 3) | | | | | W. | . W. | |
| Ϋ́Α Ν | | | | <u> </u> | | +4 | ! | | |
| CONSTANT MÉTHODE D | $Q/A \cdot (t_2 - t_1)$ | | | | | | | <u>w =</u> | % |
| S W | $k_{\tau} = \frac{L}{h} \cdot \frac{Q}{A(t_2 - t_1)} (cm/sec$ | | | | | | - 2 · | EAN WATER CONTER ENEUR MOYENNE EN | |
| | | | | | | · · · · · · · · · · · · · · · · · · · | | ENEUR PIUTEINNE EN | |
| | ₩ HEAD AT t, h,(om (OFF, DE NIVEAU Ă t, | 130.0 | 2 | 130,0 | 130.0 | 130.0 | | w = | 45 % |
| ES | | | | | | <u></u> | · | | |
| 6 | (DIFF. DE NIVEAU À t h 2(| 121 | 7 | 108.9 | 104.2 | 102 6 | | ATER CONTENT AFT ENEUR EN EAU APR | |
| VARIA | h,/h 2 | | | ····· | | | | | |
| > 0 × | 11112 | | | | | : | 1. | No | en dia Arrea di |
| - HE R | $\log_{10} (h_1/h_2)$ | 0.028 | 45 | 0.07692 | 009608 | 110279 | W. | W | |
| METHOD | | ······································ | | 1 | l | | w, | | |
| HEAD | a.L | 11.6 | 5 | 11.65 | 11.65 | 11.65 | | | |
| 뽀입 | eL/A | | / | | | A | W. | • W | |
| FALLING H | | 0.1420 | <u>5</u> | 0.1426 | | 0,126 | | <u>w =</u> | % |
| ₹Ę | $2.3/(t_2-t_1)$ | 8.518 x | -5 | 2.778 × 105 | 7,268 | 2.050 ×10-5 | | No | |
| L S | ₩₩, | | | | ×10 | 30017 | | | |
| | ** $k_T = \frac{\alpha L}{A} \cdot \frac{2.3}{(l_1 - l_1)} \cdot 10 g_{10} \frac{h_1}{h_2} (om/se$ | c) 3.48002 x | 10 | 3.04689×10 | ×107 | 3.00472 ×107 | | 2,515 W | |
| | TER TEMPERATURE | | 7 | 30.8 | 「日本」を作る。 | 1 G. G. H. H. H. H. | W | 1,942 W | |
| (TEN | IPÉRATURE DE L'EAU) |) 30.9 | | 1 30.0 | 29.0 | 51.3 | Ŵ | . 573 W | . 1,020 |
| ** | * μ _{τ/μ15} | 0.68 | 4 | 0.684 | 0.714 | 0.684 | 1 | w = | |
| ** | | | | | 122/09/ | 2040 | M | EAN WATER CONTEN | |
| | $k_{15} = k_{\overline{1}} \cdot \frac{\mu_{\overline{1}}}{\mu_{\overline{15}}}$ | 2.3803 | 3×10 | 2.08407×10 | 2,21891 2107 | ×107 | | ENEUR MOYENNE EN | いいち しんしょう しんしき おおし おおしき あんしき あんしょう |
| MEA | N VALUE OF k15 | | | | 2010 | | | w = | 56.2 % |

2,20×10 m/sec

(POIDS DU SPÉCIMEN)

DIFFERENCE BETWEEN HEAD WATER AND TAILWATER 兼 (DEFERENCE ENTRE LE INVEAU D'EAU EN TÊTE DE COLONNE ET LE NIVEAU D'ÉPANCHEMENT) * * * //T.IS THE COEFFICIENT OF VISCOSITY OF THE WATER AT T'C. (#T EST LE COEFFICIENT DE VISCOSITÉ DE L'EAU À T'C.

* * COEFFICIENT OF PERMEABILITY AT T'C COEFFICIENT DE PERMÉABILITÉ À T C 00 15°C)

w =

UNDISTURBED · DISTURBED (INTACT · REMANIÉ)

3515.32

W,=W'-W,(g)

AFTER TEST (APRES ESSAI)

36A2.32

1628.85

%

56.2

(DIAMETRE)

(VALEUR MOYENNE DE kis)

| PERME | ABIL | .ITY | 1111 | | |
|--------|------|------|--------|-----|----|
| (ESSAI | DÈ | PEF | RMÉABI | LIT | É) |

| | E OF SURVEY & LOCALITY | | | | 1 . | DATE (DATE) | an and the second s |
|------------------------|--|-----------------------|---|---|-----------------------------|-------------------------------------|--|
| | PLE NO. & DEPTH | 5 – TP-9 | 2,5- | - 3 ^m | | sted by Sai par) | |
| | ARATUS NO. E L'APPAREIL) | CONTAINE (N° DU RÉ | | SAMP (ÉCHA) | LE NTILLON | | ED • DISTURBED REMANIÉ) |
| BURETTE (BURETTE) | DAMETER (DAMETER) (on) (DAMETRE) (on) | | | NS OF SPECIMEN NS DU SPÉCIMEN) | | BEFORE TEST (AVANT ESSAI) | AFTER TEST (APRĚS ESSAI) |
| 88 | $\begin{array}{llllllllllllllllllllllllllllllllllll$ | 1,0 | (PODS (RÉCIPIENT WEIGHT OF SPECIM (PODS DU SPÉCIM | + SPÉCIMEN) | W'(g) | 3,337,04 | |
| ECMEN) | CROSS SECTIONAL AREA (~~2) (SURF. DE LA SECTION) | 81.71 | WET DENSITY (DENSITÉ HUMIDE) | γ _t =₩ _t /V | | | |
| SPE (SPE | LENGTH (LONGUEUR) VOLUME (VOLUME) V=AL(om ³) | 11.65 | DEGREE OF SATU (DEGRE DE SATUR WATER CONTENT | ATION) | S (%) | ev iv | >100 (111) |
| | (VOLUME) V-AL(WAP) SHT OF CONTAINER S DU RÉCIPIENT) W ₀ (g) | 951.9Z | (TENEUR EN EAU) DRY DENSITY (DENSITE SECHE) | $\gamma_{i} = \gamma_{i} / (1 + \frac{1}{100})$ | w(%) (8/~ ³) | OZIU | 59.4 |
| | CIFIC GRAVITY S SPÉCIFIQUE) G, | 2.84 | VOID RATIO (INDICE DES VIDES |) e | | 1.546 | 1.513 |
| (N° C | T NO E L' ESSAI) | 1 | 2 | 3 | 11c | NATER CONTENT B L'ENEUR EN EAU A | |
| TIME | OF INTIAL OBSERVATION INT OU L'OBSERVATION COMMENCE) OF FINAL OBSERVATION | | | 11 11 | | | No. |
| ELA | ENT OÙ L'OBSERVATION FINNIT) PSED TIME PS ÉCOULÉ) t ₂ -t ₁ (se | 1 | | AM 11:00 A1 11:30 5,400 7,20 | 9 W | | W. |
| THOD CONSTANTS) | * HEAD (DEFÉRENCE DE NIVEAU) http:// | | | | - | * <u>w</u> | |
| ΞŠ | $\frac{A \cdot (t_2 - t_3)}{L/h}$ | | 1. | | - w | | No. |
| T HEAD ME | VOLUME OF DISCHARGE IN t,-t, (VOLUME D'ÉPANCHEMENT EN t,-t,)Q(c | " ³) | ····· | | 4 1 | -2 | W . W . |
| CONSTANT MÉTHODE DE | $Q/A \cdot (t_{2} - t_{3})$ | | | | | w MEAN WATER CONT | ENT |
| U ž | $ \begin{array}{c} k_{T} = \underbrace{L}_{h} & \underbrace{Q}_{A}(t_{2}-t_{3}) \\ \hline \textbf{K} & \textbf{HEAD} & \textbf{AT} & t_{3} \\ \hline \textbf{(DFF, DE, NIVEAU} & \overrightarrow{A} & t_{3} \\ \end{array} $ | | 0 130.1 | 1 130.0 130. | | TENEUR MOYENNE | EN EAU) いえ, 8 % |
| ABLES) | HEAD AT t have have have have have have have have | | | 0 107.1 102.1 | 7 | WATER CONTENT A TENEUR EN EAU A | |
| 00 UX VARIA | h , /h , | | | | | | No. |
| D METHOD S NIVEAUX | log ₁₃ (h ₁ /h ₂) a L | 0.027. | | 5 0.08415 0.104 | W | <u>.</u> | W s |
| ING HEAD | aL/A | | 26 0.14 | 0.1426 0.14 | 6 | <u>w</u> | W = % |
| FALLING H | $2.3/(t_{2}-t_{1})$ | 1.278×1 | 10 ⁻³ 6.389×1 | -9 4,259 3,19 0 1104 ×10 -6 5 11071 4,778 | 4 5 | | No. |
| | $ \begin{array}{c} \bigstar \\ \textbf{k}_{T} = \frac{\sigma L}{A} \cdot \frac{2.3}{(t_{2} - t_{1})} \cdot \log_{10} \frac{h_{1}}{h_{2}} (\text{on/s}) \\ \hline \text{ER TEMPERATURE} \\ \text{IPÉRATURE DE L'EAU} \\ \end{array} $ | | | 10 × 10 × 10 27, 2 27, 1 | _ W | 1,532 | W. 1.532 W. 455 |
| ** | | 0.74 | 7 0.74% | 0.747 0.74 | 7 | w | |
| MEA | $\frac{k_{15} = k_T}{\frac{\mu_T}{\mu_{15}}}$ N VALUE OF k_{15} | 3.70697 | A DATE OF A | -6 3.81770 3.5697 0 2.10 -6 | | IEAN WATER CONT IENEUR MOYENNE | En Eau) |
| | EUR MOYENNE DE kis) | | و | 2,68×10 cm/sec | | <i>w</i> = | 59.4 % |

DIFFERENCE BETWEEN HEAD WATER AND TAILWATER (DIFFÉRENCE ENTRE LE NIVEAU D'EAU EN TÊTE DE COLONNE ET LE NIVEAU D'ÉPANCHEMENT)
 * * # J IS THE COEFFICIENT OF VISCOSITY OF THE WATER AT T °C.
 (#T EST LE COEFFICIENT DE VISCOSITÉ DE L'EAU Ă T °C.

* * COEFFICIENT OF PERMEABILITY AT T C OR 15 C (COEFFICIENT DE PERMEABILITÉ À T C OU 15 C

175

| | | | BILITY TE DE PERMÉ | | ITÉ) | | | | |
|-------------------------------|---|------------------------|-----------------------|--------------|--|-----------------------------------|--------------------------|---|--|
| | OF SURVEY & LOCALITY NATION DE L'ENQUÊTE ET LOC | 1 A A | | , | | | | DATE (DATE) | bonierspoor animary provingenering in the statistics |
| 1.1 | LE NO & DEPTH L'ÉCHANTILLON ET PROFONDER | JR) I | -TP-10 | 2 | 2 | -3 ^m | | TESTED BY (ESSAI PAR) | |
| | RATUS NO. L'APPAREIL) | | CONTAIN (N° DU RI | | τ, | | SAMPLE (ÉCHANTIL | | D DISTURBED REMANIÉ) |
| ΞË(| DIAMETER DIAMETRE) | (cm) | | | CONDITIONS (CONDITIONS | DU SPÉCIM | | BEFORE TEST (AVANT ESSAI) | AFTER TEST (APRĚS ESSAI) |
| | CROSS SECTIONAL AREA (SURF. DE LA SECTION) DIAMETER | a (om²) | 1.0 | (POI | ht (container+s ds (récipient+si ht of specimen | PÉCIMEN) | | 18, 3,483.57 | 3,569,75 |
| C | DAMETRE) CROSS SECTIONAL AREA | (cm) | | (Poi | DENSITY | | ₩, = ₩' -₩ | | 1,628.39 |
| | SURF, DE LA SECTION) LENGTH | | 81.71 | DEG | SITE HUMIDE) REE OF SATURATI | ON | ,=₩,N(9/0 S,(| | 1.7 |
| | (LONGUEUR) VOLUME (VOLUME) | | 1.65 | WA | RÉ DE SATURATIO TER CONTENT EUR EN EAU) | (א | <u>************</u> | 0/10 | 95.3 |
| WEIG | HT OF CONTAINER DU RÉCIPIENT) | ₩ ₀ (g) | 131.12 | DRY | DENSITY SITE SECHE) | γ _d = γ _t / | (1+ ; ₆₆)(g/ | ^(%) 44.3 ^(m3) 1.12 | 50,4 |
| SPEC | XFIC GRAVITY S SPÉCIFIQUE) | G, | 2.87 | VOID | D RATIO CE DES VIDES) | | e | 1563 | 1.118 |
| TES I | NO | | 1 | | 2 | T. |] | WATER CONTENT B | EFOR TEST |
| THUR . | e L'Essai) of Initial Observation nt où l'observation coi | | 8. 8.00 | AM | <u>e de la composición de la com</u> | 8/21 | 8/2/ | (TENEUR EN EAU AV | |
| TIME | OF FINAL OBSERVATION CO NT OU L'OBSERVATION FIL | | | | 8/22 8:00 AM | 8723 | 8/24 | 1 · · · · · · · · · · · · · · · · · · · | la Vs |
| ELAP | | tt .(se | | · · · · ·] | | 1728,00 | [] | | V. V. |
| (NTS) | * HEAD (DIFFÉRENCE DE NIVEAU) |) h (m | •) | | | | | <u></u> | |
| U ME LHUU /EAUX CONSTANTS) | $\mathbf{A} \cdot (\mathbf{t}_2 - \mathbf{t}_1)$ | | | | | | | | lo. |
| LAU ME | L/h VOLUME OF DISCHARGE IN | | | | | | | | Y., Y., |
| E S | (VOLUME D'ÉPANCHEMENT EN | t,-t,) ^{Q(on} | ,3) | | | | | ······ | ۷, |
| METHODE DE | $Q/A \cdot (1, -1)$ | (| | | e ga di a | | | MEAN WATER CONT | ENT |
| | * HEAD AT t, | h 1(or | | 6 | | | | (TENEUR MOYENNE) w = | EN EAU] 44,3 |
| LES) | (DIFF, DE NIVEAU Ă L 1 * HEAD AT L 1 (DIFF, DE NIVEAU Ă L 1 | | 1001 | | 130,0 120,0 | 130,0 | | WATER CONTENT A | |
| VARIAE | h ₁ /h ₂ | | " 125. |) | 120. | 117.2 | 101.1 | (TENEUR EN EAU A | |
| METHOU NIVEAUX VARIABL | log ₁₀ (h "/h ") | | 0.01426 | , | 0,02439 | 0.04502 | 0.10577 | | No. No. |
| ES ME | ٩٠L | | 11.6 | 5 | 11.65 | 11.65 | 11.65 | | N. N. |
| FALLING HEAD | al/A | | 0.14 | 6 | 0.1426 | | 0,1426 | <u>w</u> | |
| FALL | 2.3/(t , t ,) | | 7.516 | | 2.662×10-5 | 1.331 ×10 | | 에 물로 위해 관련하는 것을 | No |
| WAT | $ \mathbf{K} \mathbf{K}_{T} = \frac{\mathbf{c} L}{A} \cdot \frac{2.3}{(t_{2} - t_{1})} \cdot 10 \mathbf{c} $ ER TEMPERATURE | | | xio | 9.258 × 10 | 8.5449 ×10 | 1.33837 × 151 | · ······ | N, 2,016 N, 931 |
| (TEM ** | PÉRATURE DE L'EAU) | ץ) ד | 50, | 4. 31 | 30.8 | | 30,2 | W. 547 | W. 1.085 |
| ₩ ₩ | $\mu_{T/\mu_{15}}$ $k_{15} = k_{T} - \mu_{T}$ | | 0,69 | -1 | 0.699 | 6.10109 | | MEAN WATER CONT | ENT |
| MEAN | μ ₁₅ VALUE OF k ₁₅ EUR MOYENNE DE k ₁₅) | <u>era a a a</u> | 1.068 | <u>31710</u> | 6.47176×10 8,15 | | ×10 F cm/sec | (TENEUR MOYENNE I | EN EAU) 50,4 |

 DEFERENCE BETWEEN HEAD WATER AND TAILWATER
 (DEFÉRENCE ENTRE LE INVEAU D'EAU EN TÊTE DE COLONNE ET LE INVEAU D'ÉPANCHEMENT)
 ** * ##T IS THE COEFFICIENT OF VISCOSITY OF THE WATER AT T 'C.
 (#T EST LE COEFFICIENT DE VISCOSITÉ DE L'EAU Ă T 'C. * * COEFFICIENT OF PERMEABILITY AT T'C

OR 15'C COEFFICIENT DE PERMÉABILITÉ À T'C OU 15'C

| | EABILITY TES DE PERMÉ | | | | | | | |
|--|--------------------------|-------------------------|---------------------------------------|---------------------------|--------------------------|--|------------------|--|
| AME OF SURVEY & LOCALITY NOMINATION DE L'ENQUÊTE ET LOCALITÉ: | | | | | | DATE (DATE) | | |
| SAMPLE NO. & DEPTH "DE L'ÉCHANTILLON ET PROFONDEUR) | I-TP- | 11 | 2- | - 3 m | | TESTED BY (ESSAI PAR) | | |
| APPARATUS NO. N'DE L'APPAREIL) | CONTAINE (N° DU RE | er no. Cipient) | | | SAMPLE (ÉCHANTIL | | isturbee Ct f |) • DISTURBED REMANIÉ) |
| DIAMETER (DIAMETRE) (om. CROSS SECTIONAL AREA (SURF. DE LA SECTION) a (om. ² | | (| CONDITIONS CONDITIONS C | OU SPÉCIME | | BEFORE T | | AFTER TEST (APRES ESSAI) |
| | 1,0 | Weight (C (Poids (Ré | ONTAINER + S CIPIENT + SP | PECIMEN) ÉCIMEN) | W. | 18, 3,438 | a, 2/ | 3,606.04 |
| DAMETER (DAMÉTRE) {@# | | WEIGHT OF (POIDS DU | SPÉCIMEN) | ١ | ₩, - -₩ | (8) 1,496 | .85 | 1,637.46 |
| CROSS SECTIONAL AREA (SURF DE LA SECTION) LENGTH | 81.71 | Wet dens (Densité hi | umide.) | | =W,N(9/ | ·************************************* | 57 | 1.72 |
| تة (LONGUEUR) | 11.65 | (DEGRÉ DE | F SATURATION | | S, | (%) 74 | 48 | 974 |
| VOLUME V=AL(cm ³ (VOLUME) | 951.92 | WATER CO (TENEUR E | n eau) | | w | (%) 3 | 7.5 | 49.9 |
| WEIGHT OF CONTAINER POIDS DU RÉCIPIENT) Wo(g) | | DRY DENSI (DENSITÉ S | ĔCHE) | $\gamma_d = \gamma_t / ($ | 1+ ; _{icc} ;(g/ | om ³) /; / | 13 | 1.15 |
| SPECIFIC GRAVITY POIDS SPÉCIFIQUE) G, | 2.80 | VOID RATIO | | | е | 14 | 278 | 1.435 |
| iest no. 1° de l'essai) | 1 | | 2 | 3 |] | WATER CON | 10 A. A. | |
| ME OF INITIAL OBSERVATION OMENT OU L'OBSERVATION COMMENCE | , t. | | | | | | No | |
| IME OF FINAL OBSERVATION OMENT OU L'OBSERVATION FINNIT) | L 3 | | | | | W. | w | |
| ELAPSED TIME TEMPS ÉCOULÉ) t2-t | (sec) | | | | | W. | W. W | |
| (DIFFÉRENCE DE NIVEAU) | i (om) | | | | | | <u>w =</u> | [|
| $\frac{1}{2} \begin{bmatrix} 0 + FERENCE DE NIVEAU \end{bmatrix}$ | ND W | ATER | RENF | TRAT | ON | | No | |
| VOLUME OF DISCHARGE IN 1,-1, VOLUME OF DISCHARGE IN 1,-1, | | | p. 3. L. 3 | | | W. | . W. | |
| VOLUME OF DISCHARGE IN $t_{1}-t_{1}$ | Q(cm ³) | | | | | W. | W W | |
| | | | | | | | | |
| $\frac{L}{\Sigma} = \frac{L}{h} \cdot \frac{Q}{A(t_2 - t_1)} (cm)$ | /sec) | | | | | MEAN WATE | | |
| * HEAD AT () | ,(on) | | | | | | w = | 39.5 % |
| $\begin{array}{c} \text{Construction} \\ Con$ | 2(cm) | | | | | WATER CON (TENEUR EN | | |
| h_1/h_2 | | | | | | | No | |
| $\log_{10} (h_1/h_2)$ | | | · · · · · · · · · · · · · · · · · · · | | | W. | W | ······································ |
| $\begin{array}{c} \text{log}_{10} (h_{1}/h_{2}) \\ \text{a.i.} \\ \text$ | | | | | · · · · · · | W 8 | W | |
| aL/A | | | | | | W | W w = | |
| ¥ ₩ . 2.3/(t₂-t₁) | | | | | | | N | α |
| $\mathbf{\mathbf{x}} = \frac{\mathbf{a} \mathbf{L}}{\mathbf{A}} \cdot \frac{2.3}{(t_2 - t_1)} \cdot \log_{10} \frac{\mathbf{h}_1}{\mathbf{h}_2} (\mathbf{a})$ | •/sec) | | | | | W. 2,67 | | |
| | (°C) | | | | | | | · 1.036 · 1.091 |
| μ τ, μ ₁₅ | | | | | | | $\frac{T}{w} =$ | |
| k * k $_{15} = k_{T} \frac{\mu_{T}}{\mu_{15}}$ | | | | | | MEAN WATER | | |
| MEAN VALUE OF K15 VALEUR MOYENNE DE K15) | | ing the second | | | om/sec | | w = | 49.9 % |

DIFFERENCE BETWEEN HEAD WATER AND TAILWATER (DIFFÉRENCE ENTRE LE INVEAU D'EAU EN TÊTE DE COLONNE ET LE NIVEAU D'ÉPANCHEMENT)
 * * # # T IS THE COEFFICIENT OF VISCOSITY OF THE WATER AT T 'C. (#T EST LE COEFFICIENT DE VISCOSITÉ DE L'EAU Ă T 'C.

ž

N. K. FORM NO. 017(1975)

훐

DEFERENCE BETWEEN HEAD WATER AND TAILWATER DEFENCE ENTRE LE NIVEAU D'EAU EN TÊTE DE COLONNE ET LE NIVEAU D'É * * * # T is the coefficient of viscosity of the water at t c. (#t est le coefficient de viscosité de l'eau à t c.

A T C OU 15°C (

| | * * COEFFICIENT, OF PERMEABILITY A |
|--------------|------------------------------------|
| ÉPANCHEMENT) | OR |
| | COEFFICIENT DE PERMÉABILITÉ À T |

DATE

(DATE) TESTED BY

(ESSAL PAR)

3,451.82

3,696.76

in

2-3

| 714 0.699 | w = 37,6 % |
|--------------------------|--|
| 6028 2.5846 107 × 107 | |
| 10 ⁻⁷ om/sec | w = 37.6 % |
| NCHEMENT) | * * COEFFICIENT OF PERMEABILITY AT T'C |

| ωŝ | (SURF DE LA SECTION) | | 0 | [CPO | ds (recipient + sp | ECIMEN) | | <u>``</u> | 3,457.02 | 3,696.10 |
|---|--|---------------------|---|-----------------------------|-----------------------------------|------------------------------------|-----------------------|-----------|--------------------------------------|---------------------------------------|
| | DIAMETER (m) (DIAMETRE) | | | WEK (PO | HT OF SPECIMEN DS DU SPÉCIMEN) | | W,=W'~W | ,(g) | 1.646.53 | 1,755.39 |
| | CROSS SECTIONAL AREA (SURF DE LA SECTION) A(cm2) | 8 | 171 | | t density Sité humide) | γ. | =W _t /V(g/ | ×m 3 j | 1.73 | 1.84 |
| SPECI | LENGTH (LONGUEUR) | | 1.65 | DEC | REE OF SATURATION | | S.(| (%) | | 7/00 (103 |
| 1 | VOLUME V-AL (3) | | | WA | TER CONTENT | () | 10 | (%) | 12.7 | |
| | | 73 | 51.92 | DRY | EUR EN EAU) | | | <u>.</u> | 27.Z | 37,6 |
| | S DU RÉCIPIENT) W ₀ (8) | | | | ISITÉ SÉCHE) D RATIO | γ ₄ = γ ₁ /1 | (1+ ;;;)(g/ | of i si | 1.36 | 1.38 |
| | G, SPÉCIFIQUE) | | 2.77 | 11 . | ICE DES VIDES) | | e | | 1.037 | 1007 |
| | T NO. E L'ESSAI) | | 1 | | 2 | 3 | | | ATER CONTENT BEI | |
| | OF INITIAL OBSERVATION INT OU L'OBSERVATION COMMENCE | , t. | 8/09.10 | 24 | EL-Q-IDAM | 8/18 | 8/18 | | No. | |
| TIME | OF FINAL OBSERVATION COMMENCE ENT. OU L'OBSERVATION FINAT) | t, | 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - | | a frank i frank | 8/19 | 8/19 | w. | | |
| EI AI | PSED TIME PS ÉCOULÉ) | (sec) | " 4:201 | 10 A 10 | | 11:004 | | W | ۶ W | |
| | * HEAD | | | $\mathcal{O}_{\mathcal{O}}$ | 83,400 | 93,000 | 112,000 | W | | |
| THOD CONSTANTS) | | (<i>o</i> m) | | | | | ····· | | <u></u> | |
| | A·(t ₂ -t ₁) | · | | | | | | w | No W | |
| AD ME | L/h | | | | | | · | w | | |
| T-HE | VOLUME OF DISCHARGE IN $t_1 - t_1$ (VOLUME D'ÉPANCHEMENT EN $t_2 - t_1$) |)(an ⁹) | | | | | | W | w | 3 |
| CONSTANT MÉTHODE. DE | $Q/A \cdot (t_2 - t_1)$ | | | | | | | | <u>w</u> = | |
| R OO | $k_{T} = \frac{L}{h} - \frac{Q}{A(t_{2} - t_{3})} (cm)$ | /sec) | | | | | | | IEAN WATER CONTE ENEUR MOYENNE EI | |
| | | ,(on) | 130,0 | 2 | 130.0 | 130,0 | 130.0 | | w = | 27,2 % |
| ABLES | ₩ HEAD AT t₂ h (DIFF.DE NIVEAU Ăt₂ h | 2(055) | 119.0 | 0 | 105.0 | 101.0 | 87.0 | | YATER CONTENT AF | |
| VARIA | h1/h2 | | | | | | | | N | |
| METHOD | log ₁₀ (h ₁ /h ₂) | ÷. | 0.0383 | 9 | 0,09275 | 0,10962 | 0,12717 | w | | |
| N N N | a L | | 11.6 | 5 | 11.65 | | and the second | W | | |
| IC HEAD | aL/A | | 0,14 | | 01026 | niash | nah | . W | <u> </u> | |
| FALLING H | 2.3/(t ₁ -t ₁) | | 8.915 X | | 1 | z,473 | 2039 | | | io. |
| <u> " </u> | * * $k_{T} = \frac{aL}{A} \cdot \frac{2.3}{(t_{s}-t_{s})} \cdot 10g_{10} \frac{h_{1}}{h_{2}} (c_{s})$ | /sec] | | | ~175 0×10 | 3.86593 | 369763 | W | . 2,204 W | |
| | ER TEMPERATURE | (°C) | 1. A 1 46 | | | | 1 | | 6 11727 W | |
| (TEM | | | <u> </u> | | 30.6 | 123 | | W | <u>• 477</u> M | · · · · · · · · · · · · · · · · · · · |
| ** | $\mu_{T/\mu_{15}}$ | | | | 0.699 | | | N N | w = IEAN WATER CONTE | <u>= 37,6 %</u> NT |
| | $k_{15} = k_T \frac{-1}{\mu_{15}}$ | | 3:4845 | <u>3×10</u> | 2.54960×10 | | | | ENEUR MOYENNE E | n eau) |
| | N VALUE OF kis EUR MOYENNE DE kis) | | | | 2.845 | ×10-7 | ∝#/sec | | <u>w</u> = | 37.6 % |
| | | | | | | 1 A A A | | | | |

| : | APPARATUS NO. (N'DE L'APPAREIL) | | iner no. Récipient) | | SAMPLE (ÉCHANTILLON) | |) • DISTURBED EMANIÉ) |
|---|--|-------------------------------|--------------------------------|--|-------------------------|------------------------------|-----------------------------|
| - | ₩ Ê DIAMETER Ê (DIAMETRE) | on) | (1) 11 (1) (1) (1) (1) (1) (1) | CONDITIONS OF SPECIMEN CONDITIONS DU SPÉCIMEN | | BEFORE TEST AVANT ESSAL J | AFTER TEST (APRĚS ESSAI) |
| | 성 별 CROSS SECTIONAL AREA (SURF DE LA SECTION) 여(여 | ^{n²)} 1.0 | | ONTAINER + SPECIMEN) ÉCIPIENT + SPÉCIMEN) | W'(g, | 3,451.82 | 3,696.70 |

PERMEABILITY TEST (ESSAI DE PERMÉABILITÉ)

I

TP-12

NAME OF SURVEY & LOCALITY

SAMPLE NO. & DEPTH

(DÉNOMINATION DE L'ENQUÊTE ET L'OCALITÉ

(N' DE L'ÉCHANTILLON ET PROFONDEUR)

| | IEABILITY TE | (a) (A) (A) (a) | | | | | | |
|--|----------------------|--|---|-----------------------|---------------------|------------------------|------------------|---|
| NAME OF SURVEY & LOCALITY DENOMINATION DE L'ENQUÊTE ET LOCALITÉ: | | 1996-1979-99-1979-1979-1979-1979-1979-19 | ngi gigangingkan kan kata kata kata kata kata kata ka | GAL BURGLOW OF AN ADV | | ATE)ATE] | ene medicience o | n an Air da Sé é la Gunn an Air an Air Ghail Ann an Air Chuir Ann |
| SAMPLE NO. & DEPTH (N'DE L'ÉCHANTILLON ET PROFONDEUR) | I-TP | -/3 | 3 m | | | TED BY AI PAR) | | |
| APPARATUS NO. (N' DE L'APPAREIL) | | NER NO. RÉCIPIENT) | | SAMPLI (ÉCHAN | | | |) DISTURBED REMANIÉ) |
| L DIAMETER COAMETRE) (ση CROSS SECTIONAL AREA CROSS SECTIONAL AREA CROSS DE LA SECTION) σ(ση | я) | | CONDITIONS OF SPEC | IMEN) | | BEFORE T | | AFTER TEST (APRES ESSAI) |
| | 2) 1.0 | (POIDS (RÉ | ONTAINER + SPECIMEN CIPIENT + SPÉCIMEN | 1)) | W' (8, | 3,62- | 1.18 | 3,646.86 |
| DIAMETER (DIAMETRE) | n) | WEIGHT OF (POIDS DU | SPÉCIMEN) | ₩,=₩' - | W,(g) | 1,605 | .71 | 1,628.39 |
| CROSS SECTIONAL AREA A(on SURF. DE LA SECTION) | " 81.71 | WET DENS (DENSITÉ H | MIDE) | γ,=₩ _l N(g | /cm ³) | <u>.</u> | 69 | 1.7/ |
| 마뇨 LENGIH 5 ⓒ (LONGUEUR) L(여 | 11.65 | (DEGRÉ DE | SATURATION SATURATION) | 5 | 5,(%) | 8 | 21 | 96.8 |
| VOLUME V=AL(~ | 951.92 | WATER CO | N EAU) | 1 | w(%) | <u>4</u> z | Z | 51.2 |
| WEIGHT OF CONTAINER (POIDS DU RÉCIPIENT) W.(1 | 8) | DRY DENSI (DENSITÉ S | ECHE) 7,= 7 | ·,/(1+ ╦ ·){ | g/om ³) | 1. | 19 | 1.13 |
| SPECIFIC GRAVITY (POIDS SPÉCIFIQUE) G, | 2.8/ | VOID RATIO | | 8 | | 1.3 | 61 | 1,487 |
| TEST NO. (N' DE L' ESSAI) | 1 | | 2 | 3 | (TE | ATER CONT | | FOR TEST NT ESSAI) |
| TIME OF INITIAL OBSERVATION MOMENT OU L'OBSERVATION COMMENC | E) 1, 9/19 9:1 | DOAM 9/19 | 9:00 AM 9/19 9:00 AM 9:00 A | 9/19 4 9-00 AM | | . 1 | No | |
| TIME OF FINAL OBSERVATION MOMENT OU L'OBSERVATION FINNIT) | | tati ta si | :00 PM 3:00 | 11 11 | W | | W | |
| ÉLAPSED TIME (TEMPS ÉCOULÉ) t ₂ -t | 1(sec) 7,20 | | | 028,800 | W, | | W W | |
| DIFFÉRENCE DE NIVEAU) | hī (ons) | | | |] = | | <u>w</u> = | |
| $\begin{array}{c} \left(\begin{array}{c} \bullet \\ \bullet $ | | | | | | | Na | |
| ြာ မို | | | | | W. | | W | |
| YOLUME OF DISCHARGE IN t₂−t₁ XI (VOLUME O'ÉPANCHEMENT EN t₂−t₃ |) ^{Q(on 3)} | | | | W, | | W W | |
| $\frac{u}{2} = \frac{u}{2} \frac{u}{4} $ | | | | | 1 | | <u>w</u> = | |
| $g = \frac{1}{2}$ $k_{T} = \frac{L}{h} \cdot \frac{Q}{A(t_{a} - t_{1})} (c_{a})$ | ∞/sec) | | | | | EAN WATER ENEUR MOY | | |
| $ (UFF, UC INVEAU A L_1$ | h i (om) 130. | 0 1. | 30.0 130. | 0130.0 | | 1 | 0 = | % |
| 없 * HEAD AT t, 전 (DFF.DE NIVEAU Ă t, | h_(om) 125, | 2 /- | 0.8 117. | 3.114.0 | | ATER CONT | | TER TEST RĚS ESSAI) |
| d (DIFF. DE NIVEAU Ă t₂ tr tr tr tr tr tr tr tr tr tr | | | | | | | No | |
| $ \begin{array}{c} \log_{10} \left(h_{1}/h_{2} \right) \\ & \\ & \\ & \\ & \\ & \\ & \\ & \\ & \\ & \\ $ | 0.016 | 34 0,0 | 0.014 | 50.05704 | W. | | W | • |
| ΣZ Q () Z W | 11.0 | | 65 11.6 | 511.65 | W, | | W | |
| α·L Ψ Ψ Ψ Ψ Ψ Ψ Ψ Φ Π Η Ψ Φ Π Η Ψ Φ Φ Γ Γ Γ Γ Γ Γ Γ Γ Γ Γ Γ Γ Γ Γ Γ Γ Γ | 0.14 | 26 0. | 1426 0.142 | 60,426 | 1 1 | • | W w = | |
| ⊐ ¥ Z 3/(t ,−t ,) | 3,190× 1 | -4 1.5 | 97 × 10 1.06 | |] | | | a |
| $ = \frac{4L}{A} \cdot \frac{2.3}{(l_2 - l_1)} \cdot 10 g_{10} \frac{h_1}{h_2} $ | | | | 17 6,4958 7 × 10 7 | w. | 236 | ,5 w | |
| WATER TEMPERATURE (TEMPÉRATURE DE L'EAU) | T(°C) 27 | | 6.8 27 | 27.6 | W. | | | · 42.4 · 128.4 |
| ### μ _{T/μ15} | 0. 74 | | | 0.730 |] '' " | <u>, 6</u> 3, | / " w = | |
| ** $k_{15} = k_T \cdot \frac{\mu_T}{\mu_{15}}$ | | | 405 x 10 5,0644 | | | AN WATER | | |
| and the second | | | 5,198 ×10 | 101 | 4 UN'S | | | |

WFFERENCE BETWEEN HEAD WATER AND TAILWATER
 (DIFFÉRENCE ENTRE LE NIVEAU D' EAU EN TÊTE DE COLONNE ET LE NIVEAU D' ÉPANCHEMENT)
 * * # # T IS THE COEFFICIENT OF VISCOSITY OF THE WATER AT T'C.
 (#T EST LE COEFFICIENT DE VISCOSITÉ DE L'EAU Ă T'C.

* * COEFFICIENT OF PERMEABILITY AT T'C OR 15'C (COEFFICIENT DE PERMÉABILITÉ À T 'C OU 15'C)

* * COEFFICIENT OF PERMEABILITY AT T C

COEFFICIENT DE PERMEABILITE À T C

%

%

%

%

%

%

OR 15°C

0U 15°C)

DIFFERENCE BETWEEN HEAD WATER AND TAILWATER (DIFFÉRENCE ENTRE LE NIVEAU D'EAU EN TÊTE DE COLONNE ET LE NIVEAU D'ÉPANCHEMENT). * * # # # T IS THE COEFFICIENT OF VISCOSITY OF THE WATER AT T 'C. (#T EST LE COEFFICIENT DE VISCOSITÉ DE L'EAU Ă T 'C.

6.0 m TESTED BY SAMPLE NO & DEPTH T-TP-14 FSSAL PAR (N' DE L'ÉCHANTIELON ET PROFONDEUR) SAMPLE CONTAINER NO UNDISTURBED DISTURBED APPARATUS NO. (N° DU RÉCIPIENT) (ÉCHANTILLON) (INTACT + REMANIE) (N' DE L' APPAREIL) AFTER TEST CONDITIONS OF SPECIMEN BEFORE TEST DIAMETER BURETTE (BURETTE) (om (CONDITIONS DU SPÉCIMEN) (AVANT ESSAL) (APRES ESSAI) (DIAMETRE) CROSS SECTIONAL AREA WEIGHT (CONTAINER+SPECIMEN) - W (e 3,619.65 3,637.79 a (en 2 (PODS (RÉCIPIENT + SPÉCIMEN) (SURF. DE LA SECTION) 0 *(*,) WEIGHT OF SPECIMEN (POIDS DU SPÉCIMEN) DIAMETER (om $W_{I} = W' - W_{I}g$ 1,678,28 (DAMÉTRE) 1,696,45 CROSS SECTIONAL AREA WET DENSITY SPECIMEN SPECIMEN) $\gamma_1 = W_1 N (q / orn^3)$ A(m2 1.76 81.71 (DENSITE HUMIDE) 1.78 (SURF DE LA SECTION) DEGREE OF SATURATION LENGTH S.(%) 96.1 L (om 11.56 88.6 (LONGUEUR) (DEGRE DE SATURATION) VOLUME WATER CONTENT 42.8 V=AL (cm 3 w(%) 37.8 151.92 (TENEUR EN EAU) (VOLUME) WEIGHT OF CONTAINER DRY DENSITY $\gamma_d = \gamma_1 / (1 + \frac{1}{100}) (g/om^3)$ W_o(g 1.28 (POIDS DU RÉCIPIENT) (DENSITÉ SÉCHE) 4.25 VOID RATIO SPECIFIC GRAVITY e G. 2.82 1203 1256 (INDICE DES VIDES) (POIDS SPÉCIFIQUE) WATER CONTENT BEFOR TEST TEST NO (N' DE L' ESSAI) 1 2 3 (TENEUR EN EAU AVANT ESSAI) TIME OF INITIAL OBSERVATION (MOMENT OUT. OBSERVATION COMMENCE) 10/5 10/5 10/5 10:00 AM 10/5 10:00AM No 10:001M 10:0014 TIME OF FINAL OBSERVATION (MOMENT OU L'OBSERVATION FINNIT) 1017 19/6 Ws w. 10/6 8:00 AH 5:00 PM 5 00 PH 9:00 MM W, W ELAPSED TIME t -t (sec) (TEMPS ÉCOULÉ) 251200 79,200 111,600 16920 Ŵ, W 🛓 * HEAD h (cm w =(DIFFÉRENCE DE NIVEAU) HEAD METHOD No. $A (t_2 - t_1)$ w. W. L7h HEAD Wį W. VOLUME OF DISCHARGE IN $1, -1, Q(cm^3)$ (VOLUME D ÉPANCHEMENT EN $1, -1, Q(cm^3)$ ₩. ₩, S CONSTANT METHODE w = $Q/A \cdot (t_2 - t_1)$ MEAN WATER CONTENT Q Ľ, $k_T=\frac{-}{h}$ (om/sec (TENEUR MOYENNE EN EAU) A(t.,-t.) AT L. HEAD * HEAD ALL, (DIFF, DE NIVEAU ÁL, w = 37.8 h (00) 130.0 130.0 130.0 130,0 (S) HEAD AT L, * WATER CONTENT AFTER TEST h a (om (DIFF. DE NIVEAU À 121.9 117.9 113.8 a 124,2 (TENEUR EN EAU APRÈS ESSAU) VARA h /h , No METHOD We Ŵ, log₁₀ (h 1/h 2) 0.02794 0,04243 0,05780 0.01982 w, W, HEAD 11.65 11.65 a · L 11.65 11.65 Second W W THOOE al /A 0,1426 0,1426 FALLING 0,1126 0.1426 w =2.06/ 5 1.357 2.3/(t -t) ×10 ×105 24697 1.12040 ×107 ×107 Ψ 127×10 No. 2.3 $k_{T} = \frac{aL}{A} \cdot \frac{2.3}{(t_{s} - t_{1})} \cdot \log_{10} \frac{h_{1}}{h_{2}} (om/sec$ 2162 W. 1.65 57959+16 5704-×10 1,651 W. 458 W۵ WATER TEMPERATURE 7 (°C) 26 24 24,8 25 (TEMPÉRATURE DE L'EAU) 511 W. 1,193 W, *** $\mu_{T/\mu_{15}}$ 0.8 0.18Z w = 42,8 0,764 0,782 997576 8.76186 × 10 8 × 10 8 MEAN WATER CONTENT 14 T k 15 = kr 2: 01.724 x10 8.8 3979×10 (TENEUR MOYENNE EN EAU) MEAN VALUE OF K15 (VALEUR MOYENNE DE K15) 94 × 107 m/sec 42.8 w =

DATE

(DATE)

NAME OF SURVEY & LOCALITY

IDÉNOMINATION DE L'ENQUÊTE ET LOCALITÉ

| PERMEABILITY TES (ESSAI DE PERMÉ | | |
|---|---|---|
| AME OF SURVEY & LOCALITY | | DATE (DATE) |
| SAMPLE NO. & DEPTH N'DE L'ÉCHANTILLON ET PROFONDEUR) $I - TP - 7$ | 15 3 ^m | TEŞTED BY (ESSAI PAR) |
| APPARATUS NO. V DE L'APPAREIL 1 (N° DU RÉ | | UNDISTURBED · DISTURBED LON) (INTACT · REMANIÉ) |
| | CONDITIONS OF SPECIMEN | BEFORE TEST |
| $\begin{array}{c} () \\ (DAMETRE) \\ (CROSS SECTIONAL AREA \\ (SURF, DE LA SECTION) \\ \end{array} $ | (CONDITIONS DU SPÉCIMEN) WEIGHT (CONTAINER+SPECIMEN) (POIDS (RÉCIPIENT+SPÉCIMEN). | (AVANT ESSAI) (APRÈS ESSAI) (B) 3,592,43 3,669,54 |
| DAMETER (DAMETRE) | WEIGHT OF SPECIMEN W W W W W W | |
| $\begin{array}{c} \hline CROSS SECTIONAL AREA \\ (SURF DE LA SECTION) \\ \hline LENGTH \\ (LONGUEUR) \\ \hline L(m) \\ \hline L \\ (m) \\ (m) \\ \hline L \\ (m) \\ (m$ | WET DENSITY (DENSITÉ HUMIDE) $\gamma_1 = W_1 / V(q / q)$ | |
| VOLUME | WATER CONTENT | (%) 83.0 /03 |
| $\frac{(VOLUME)}{(VOLUME)} \xrightarrow{V=AL(m^3)} \frac{957, 92}{95}$ | (TENEUR EN EAU) DRY DENSITY | (%) <u>4/.8</u> 58.3 |
| ODS DU RÉCIPIENT) "°'8" SPECIFIC GRAVITY ODS SPÉCIFIQUE) G, 7.85 | (DENSITÉ SĚCHE) VOID RATIO (INDICE DES VIDES) | 1.436 1.615 |
| EST NO. | | WATER CONTENT BEFOR TEST |
| I DE L'ESSAI) I III DESERVATION OMENT OÙ L'OBSERVATION COMMENCE (L'OBSERVATION COMMENCE (L'III) | | (TENEUR EN EAU AVANT ESSAI) |
| IME OF FINAL OBSERVATION IOMENT OU L'OBSERVATION FINNIT) | | W |
| ELAPSED TIME (EMPS ÉCOULÉ) t ₂ -t ₁ (sec) | | W, W. |
| $ \begin{array}{c c} $ | | <u>w</u> = % |
| | ATER REVETRATION | <u>No.</u> W., W., |
| VOLUME OF DISCHARGE IN t, -t, Q(cm ³) | | W _b W _c |
| $ \begin{array}{c} $ | | <u>w = %</u> |
| $h_{1} = A(t_{1} - t_{1})$ | | MEAN WATER CONTENT (TENEUR MOYENNE EN EAU) |
| $\begin{array}{c c} & & & \\ & & & \\ & & \\ \hline & & \\ & &$ | | w = 4.1.8 % |
| B (DFF: DE NVEAU A t 2 A COMPANY | | WATER CONTENT AFTER TEST (TENEUR EN EAU APRÈS ESSAI) |
| ξ h ₁ /h ₂ Ng log ₁₀ (h ₁ /h ₂) | | No. |
| | | W _b |
| ۳ ۳ ۳ | | W |
| $\begin{bmatrix} a \cdot L \\ a \\ b \\ b \\ c \\ c$ | | Na |
| $\mathbf{\mathbf{k}} = \frac{\mathbf{a}_{\text{L}}}{A} \cdot \frac{2 \cdot 3}{(t_1 - t_1)} \cdot \log_{10} \frac{h_1}{h_2} (\text{om/sec})$ | | W. 1,942 W. 1340 |
| WATER TEMPERATURE TEMPÉRATURE DE L'EAU) | | W. 1,340 W. 208,1 W. 602 W. 1031.9 |
| $\mu_{T/\mu_{15}}$ | | $w = \frac{59.34\%}{1000}$ |
| $\mathbf{k}_{15} = \mathbf{k}_{T} \frac{\mu_{T}}{\mu_{15}}$ MEAN VALUE OF k ₁₅ | | (TENEUR MOYENNE EN EAU) $w = \langle P, 34 \rangle$ |

 DEFERENCE BETWEEN HEAD WATER AND TAILWATER (DEFÉRENCE ENTRE LE NIVEAU D'ÉAU EN TÊTE DE COLONNE ET LE NIVEAU D'ÉPANCHEMENT)
 * * # # T IS THE COEFFICIENT OF VISCOSITY OF THE WATER AT T "C. (#T EST LE COEFFICIENT DE VISCOSITÉ DE L'EAU Ă T "C. DEFERENCE BETWEEN HEAD WATER AND TAILWATER . ←ı EST LE

 $V_{\rm e}/M_{\rm e}^{-1}$

* * COEFFICIENT OF PERMEABILITY AT T'C OR 15'C (COEFFICIENT DE PERMÉABILITÉ À T'C OU 15'C

| (ESSAI DI | ILITY TEST E PERMÉAB | | 218 | | ********** | |
|--|-----------------------------|--|---|--|--------------------------|-----------------------------|
| AME OF SURVEY & LOCALITY | | | | DAT (DAT | | |
| SAMPLE NO. & DEPTH N°DE L'ÉCHANTILLON ET PROFONDEUR; J | -TP-10 | 5 2. | 5-3 m | TESTE (ESSAI | | |
| APPARATUS NO. Nº DE L' APPAREIL) | CONTAINER ((N° DU RÉCIP | | SAMP (ÉCHAI | LE NTILLON) | UNDISTURBE (INTACT | D DISTURBED REMANIE) |
| DIAMETER (DIAMETRE) (m) | | | OF SPECIMEN DU SPÉCIMEN) | | FORE TEST (ANT ESSAL) | AFTER TEST (APRĚS ESSAI) |
| $\begin{array}{c} \square & DIAMETER \\ (DIAMETRE) \\ \blacksquare & (CROSS SECTIONAL AREA \\ \blacksquare & (SUR DE LA SECTION) \\ \end{array} $ | 10 11 | EIGHT (CONTAINER+S POIDS (RÉCIPIENT+SF | PECIMEN) PÉCIMEN) | ,در W' (g, | 479.04 | 3,674.08 |
| DIAMETER (cm) (DIAMETRE) | (F | EIGHT OF SPECIMEN POIDS DU SPÉCIMEN) | ₩ <i>~</i> =₩' | -W,(g) | 537.67 | 1.732.71 |
| CROSS SECTIONAL AREA (SURF. DE LA SECTION) A(cm ²) LENGTH (LONGUEUR) L(cm) | 7.77 0 | VET DENSITY ENSITE HUMIDE) DEGREE OF SATURATIO | $\gamma_t = W_t / V$ | 9 / on ⁹) | 1.62 | 1.82 |
| | 1.56 0 | DEGRÉ DE SATURATION | | S.(%) | 76.0 | 7100 (109 |
| $\frac{1}{(VOLUME)} = \frac{V = AL(om^3)}{Q}$ WEIGHT OF CONTAINER | 51.9Z a | ENEUR EN EAU) | | w(%) | 3813 | 33.9 |
| POIDS DU RÉCIPIENT) W.(8) SPECIFIC: GRAVITY | | ensité séche) | $\gamma_{d} = \gamma_{1} / (1 + \frac{1}{100})$ | (g/om ³) | 1.17 | 1.18 |
| Poids spécifique) | | NDICE DES VIDES) | e | <u> </u> | 1.4.36 | 1415 |
| TEST NO. N' DE L' ESSAI) | | 2 | 3 | | R CONTENT BE | |
| IME OF INITIAL OBSERVATION IOMENT OU L'OBSERVATION COMMENCE) ^L | \$22 4:30 PY | 1 \$2 4:30 PM | 8/22 8/22 4:30PM 4:30P | <u>y</u> | N | D. |
| TIME OF FINAL OBSERVATION (1 2 MOMENT OU L'OBSERVATION FINNIT) (2 2 | | M 8/3 10:00AM | 8/23 8/23 1:00PH 4:00P | W | W | |
| ELAPSED TIME TEMPS ÉCOULÉ) t ₂ -t ₁ (sec) | 55,800 | 63,000 | 73,800 84,60 | 0 W. | W | |
| (DIFFÉRENCE DE NIVEAU) h (ors) | | | | | | <u> </u> |
| A·(t,-t,) | | | · · · · · · · · · · · · · · · · · · · | W. | No | <u> </u> |
| | | | | - W, | W W | |
| $\frac{Q}{W} = \frac{1}{2} \left(\frac{1}{2} \left(\frac{1}{2} - \frac{1}{2} \right) \right)^{2} \left(\frac{1}{2} - \frac{1}{2} \right)^$ | [| | | W., | W | |
| $\frac{2}{\frac{2}{2}} \frac{(\text{VOLUME D EPANCHEMENT EN } t_{1} - t_{1})}{\frac{2}{2}} \frac{Q}{A} \cdot (t_{2} - t_{1})} \frac{Q}{A} \cdot (t_{2} - t_{1})}{k_{T} = \frac{L}{h} + \frac{Q}{A(t_{2} - t_{1})} - (\text{om/sec})}$ | | | | · · · · | WATER CONTE | NT |
| $\begin{array}{c} HEAD \\ HE$ | | | | - 1 | UR MOYENNE E | N EAU) 38,3 % |
| \Im * HEAD AT t ₂ | 130,0 | 130.0 | 130,0130,0 | | ER CONTENT AF | |
| $\frac{dd}{dc} = \begin{pmatrix} \text{OFF. DE NIVEAU } \tilde{A} & L_2 \\ \tilde{C} \\ C$ | 114.5 | 111,9 | 108.7 106.0 | | UR EN EAU AP | |
| | | | | w. | N W | |
| bgjjj (h ,/h ,) 20 20 20 20 20 20 20 20 20 20 | 0.055138 | 0.06511 | 0.07172 0.088 | 2 | W | * |
| نگ ₩ ۵L/A | | | 0,1426 0,142 | - <u>vv</u> - | W | |
| 8 ⊊ 2.3/(t ₁ −t ₁) | 0,14-0 4,122×10 | | 3, 112, 2.719 | <u>ר </u> | <u></u> | =y |
| $\frac{2}{K} = \frac{aL}{A} \cdot \frac{2.3}{(t_1 - t_1)} \cdot 10 g_{10} \frac{h_1}{h_2} (om/sec)$ | 1 | 3, 38965 ×10 | 1 | 2 w | 2,185 W | |
| WATER TEMPERATURE TEMPÉRATURE DE L'EAU) T (°C) | | 28.9 | 30 28 | 2 W. | 1,578 W | |
| Κ** μ _{τ/μ15} | 0.714 | | 0.699 0.714 | £ <u>₩.</u> | <u>60/</u> % w= | 1. 1.127 = 53.9% |
| * * k 15 = k T $\frac{\mu}{\mu}$ 15 | | | 2.4/404 2.4536, ×107 ×107 | MEAN | I WATER CONTE | |
| MEAN VALUE OF kijs VALEUR MOYENNE DE kijs () | | 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | ×10 ⁷ om/sec | | w == | 53.99 |
| DIFFERENCE BETWEEN HEAD WATER AN DIFFERENCE ENTRE LE NIVEAU D'EAU EN | | | | * * COEF | FICIENT OF PEI | RMEABILITY AT T |

•

| Non-sector of the | | CONTRACTOR OF THE OWNER | CONTRACTOR OF CONT | MALOR ADDRESS PROPERTY. | Change Strategy and the second | CHARLES THE REAL PROPERTY OF | en e | | and id the large the set | 183 |
|---|--|---------------------------------------|--|---------------------------------------|--|--|--|---|--------------------------|---------------------------------------|
| | | BILITY TES DE PERMÉ | | | | | | | | |
| and the second second | OF SURVEY & LOCALITY | , , , , , , , , , , , , , , , , , , , | | | ************************************** | | | ATE ATE) | | |
| | LE NO. & DEPTH | - TP- / | 7 | 2. | 5-31 | m. | 1 A A | ted by Al par 1 | | |
| | ARATUS NO. E L'APPAREIL.) | CONTAINE (N° DU RÉ | **** | | | SAMPLE (ÉCHANT | | | |) · DISTURBED REMANIÉ) |
| | DIAMETER (DIAMETRE) (009) | | | CONDITIONS CONDITIONS | | | | BEFORE T AVANT ES | | AFTER TEST (APRËS ESSAI) |
| | CROSS SECTIONAL AREA (cm ²) (SURF DE LA SECTION) (cm ²) | 1.0 | | ONTAINER+S | | ¥ | | 3,565 | 5,22 | 3,737.58 |
| | (DIAMETRE) (OM) CROSS SECTIONAL AREA ((-2)) | 2101 | (POIDS DU WET DENS | SPÉCIMEN) | | $W_i = W' - \gamma_i = W_i / V(q)$ | | 1.625 | | 1705.50 |
| ដ្ឋដ្ឋា | (SURF DE LA SECTION) A(000-7 LENGTH (LONGUEUR) L(000) | 81.71 | | UMIDE) F SATURATION SATURATION | NC NC | | ,(%) | 87 | 7/ | 1.79 101 |
| | (VOLUME) V=AL(om ³) | 951.92 | WATER CO | NTENT N EAU) | | t. | v(%) | 4-2 | | 48.1 |
| (POIDS | HT OF CONTAINER 5 DU RÉCIPIENT) W _e (g) CHTIC GRAVITY | | ORY DENS (DENSITÉ S VOID RATIO | iĔCHE) | $\gamma_d = \gamma_t$ | /(1+ _{iCG})(g | ;/cm ³) | | 20 | 1.2/ |
| | G, G, G, T, NO. | 2,96 | (INDICE DE | S VIDES) | <u></u> | e | | and the second secon | 83 | 1.364 |
| (N° DI | E L'ESSAI) CE INITIAL OBSERVATION | 1 | | 2 | | 3 | | NEUR EN I | | OR TEST INT ESSAI) |
| (MOME | NT_OUL_OBSERVATION_COMMENCE) | | | | | | W. | a 11. e. a.e. 11. e. a.a. | <u>No</u> W | |
| ELAF | NT OŬ L'OBSERVATION FINNIT) SED TIME PS ÉCOULÉ) t 2-t (se | c) | | · · · · · · · · · · · · · · · · · · · | | | W, | | W | ¢ |
| ŝ | * HEAD (DIFFÉRENCE DE NIVEAU) h`(@ | •) | | | | | W. | | W | |
| METHOD | $A \cdot (t_2 - t_1)$ | NO W | ATER | PENET | RATI | 2N | W. | | No. W | |
| HEAD ME | L/h. VOLUME OF DISCHARGE IN $t_1 - t_2$ (VOLUME D'ÉPANCHEMENT EN $t_2 - t_2$)Q(or | 3) | | | | | W, | | W | • • • • • • • • • • • • • • • • • • • |
| TANT DE DE | $Q/A \cdot (t_2 - t_1)$ | | | | | | Ww | | | |
| CONS MÉTHC | $k_{T} = \frac{L}{h} \cdot \frac{Q}{A(t_{q} - t_{r})} (cm/se$ | c) | | | | | | AN WATER | | |
| ES) | ₩ HEAD AT ti hi(~ (DIFF, DE NIVEAU Ă ti ₩ HEAD AT ti ; | | | | | | | |) == | 42,2 % |
| METHOD NIVEAUX VARIABL | (OFF. DE NIVEAU Ă t, h s∱o h₁/h₂ | | | | | | | ATER CONT ENEUR EN | | RER TEST RĚS ESSAI) |
| EAUX | log ₁₀ (h ₁ /h ₂) | 1 | | | | · · · · · · · · · · · · · · · · · · · | Ψ. | | No W | |
| Falling Head, Method Méthode, Dés: Niveaux | a.L | | | | | | W, | | W | |
| Falling Head Méthode des | 4L/A | | | ; | | | | | | |
| FAI (MÉ | $\frac{2.3/(t_{1}-t_{1})}{k_{T}} = \frac{aL}{A} \cdot \frac{2.3}{(t_{1}-t_{1})} \cdot 10g_{10} \frac{h_{1}}{h_{2}} (c_{1}/s_{1}) + \frac{aL}{h_{1}} \cdot \frac{2.3}{(t_{1}-t_{1})} \cdot 10g_{10} \frac{h_{1}}{h_{2}} (c_{1}/s_{1}) + \frac{aL}{h_{1}} \cdot \frac{2}{h_{1}} \cdot \frac{2}{h_{1$ | ;c) | | | | | W | 2,66 | 0 W | |
| WAT (TEM | ER TEMPERATURE PERATURE DE L'EAU) T ("C | | | | | | W, | 2,09 | 9 W | · 952 |
| *** | $\mu_{\mathrm{T}}/\mu_{15}$ | | | ····· | | | W. | | <u>w</u> = | |
| WEAN | $k_{15} = k_T \frac{\mu}{\mu} \frac{1}{15}$ | | | | | | | an water Neur Moyi | | I EAU) |
| | EUR MOYENNE DE kis) | | in di <mark>tanan anan anan anan anan anan anan an</mark> | | | om /sec | L | <u>u</u> | v = | 4.8.1 % |

IDIFFERENCE BETWEEN HEAD WATER AND TAILWATER
 (DIFFERENCE ENTRE LE NIVEAU D'EAU EN TÊTE DE COLONNE ET LE NIVEAU D'ÉPANCHEMENT)
 * * # # T IS THE COEFFICIENT OF VISCOSITY OF THE WATER AT T 'C.
 (#T EST LE COEFFICIENT DE VISCOSITÉ DE L'EAU Ă T 'C.

* * COEFFICIENT OF PERMEABILITY AT T C OR 15'C (COEFFICIENT DE PERMÉABILITÉ À T C OU 15'C)

i

83

| 184. | 2 State Date: (B-2 officers 2 officers 2 million | um er tana si coore, angletes | | | | | | | | |
|---|--|-------------------------------|------------------------|---|---|-------------------------|------------------------|----------------------------------|---------------------------|--|
| | and the second | | NBILITY TE De permé | | ITÉ) | | | | | |
| | SURVEY & LOCALITY | | | | | | | DATE (DATE) | | ng an |
| | NO. & DEPTH CHANTILLON ET PROFONDEL | Rj | | 7 | -0 | ک | om | TESTED BY (ESSAI PAR) | | |
| APPARAT (N°DE L | tus no. Appareil) | | CONTAIN (N° DU R | | | | SAMPLE (ÉCHANT | | | D - DISTURBED REMANIÉ) |
| Ë 🗄 (DIAI | METER MĚTRE) | (on) | | | CONDITIONS (CONDITIONS | DU SPÉCIM | IEN) | BEFORE (AVANT E | | AFTER TEST (APRĚS ESSAI) |
| | DSS SECTIONAL AREA RF. DE LA SECTION] METER | a (cm²) | 1.0 | (PO | GHT (CONTAINER+S DS (RÉCIPIENT+SI GHT OF SPECIMEN | SPECIMEN) PÉCIMEN) | <u>۷</u> | | 8.5/ | 3,742.12 |
| (DIA | MĚTRE) OSS SECTIONAL AREA | (cm) A(cm ²) | | (PO | DS DU SPECIMEN) | | ₩,=₩ -\ | 1.110 | 0. 03 | 1,723.64 |
| | ¥F DE LA SECTION) NGTH NGUEUR) | L(0m-) | 81.71 | DEC | SITÉ HUMIDE) GREE OF SATURATI GRE DE SATURATIO | ON NO | ′i=Wi∖A(è) S | (^(m³)) / | 80 | 1.81 38.9 |
| - Va | function of the second se | AL(cm ³) | 951.92 | WA | TER CONTENT NEUR EN EAU) | . | u | ري (%) ردي (%) | <u>0.7</u> 2.3 | 37.6 |
| (POIDS DU | of Container J Récipient J | W _o (g) | | (DEN | DENSITY ISITÉ SĚCHE) | $\gamma_d = \gamma_t /$ | (1+ ;cc)(g | / cm ³) | 32 ··· | 1.3Z |
| |) GRAVITY PÉCIFIQUE) | G, | 2.97 | 1 6 6 3 | D RATIO ICE DES VIDES) | | e | <u>.</u> | 265 | 1.265 |
| TEST N (N'DE L' | · 그 같은 것 같은 것 같은 것 같은 것 같이 있는 것 같이 있다. | | 1 | | 2 | | 3 | WATER CON (TENEUR EN | | and the second |
| MOMENT | INITIAL OBSERVATION OU L'OBSERVATION CON FINAL OBSERVATION | MENCE } | 1.1% 8:0 | oati. | 19/8 8:00AM | 8-00AH | 1978 8:001H | | N |) |
| | OU L'OBSERVATION FIN | | | - 1 I | 1%0 8:00AH | 1 2 4 1 4 4 4 | | W _a W _b | W. W | |
| * ا | ÉCOULÉ) HEAD IFFÉRENCE DE NIVEAU) | tt_(se | | 00 | 172,800 | 259,200 | 345,600 | W 16 | W w = | |
| METHOD | $A \cdot (t_2 - t_3)$ | | | | | | | | | |
| | L/h | | | | | | | W. 190 W. 150 | 2.7W | |
| ± voi ⊨ voi | LUME OF DISCHARGE IN I LUME D'ÉPANCHEMENT EN | | m ³) | | : · · · · · · · · · · · · · · · · · · · | · · · · | | | P. 8 W | 109.7 |
| CONSTANT METHODE DE | $\frac{Q/A \cdot (t_{i} - t_{i})}{Q}$ | | | | | | | MEAN WATE | | NT |
| | $\frac{hT}{h} = \frac{1}{h} \frac{A(t_z - t_z)}{A(t_z - t_z)}$ HEAD AT t_i FF, DE NIVEAU. Ă t_i | <u>,)</u> (m/se h,(| | 0 | 130.0 | 130.0 | 130,0 | (TENEUR MC | WENNE E | N EAU) 36,3 % |
| ୍ଘ * ଅଧି | HEAD AT L . FF. DE NIVEAU Ă L . | h "(| | | 125.9 | 121.3 | | WATER CO | | TER TEST |
| HEAD METHOD | h 1/h 2 | : . | | | | | | (TENEUR EN | I EAU AP | the second s |
| | log ₁₀ (h ₁ /h ₂) | | 0.008 | 43 | 0.01392 | 0.03008 | 0.04059 | W. | W | |
| RA B B B B B B B B B B B B B B B B B B B | a • L | پذیرتی | | | 11.65 | 11.65 | <u> </u> { | W. | W W | |
| FALLING HEAD | ∞L/A 2.3/(t ₂ -t ₁) | | | | 0,1426 1.331 × 105 | 0,1426 | | | <u>w</u> = | |
| | $\mathbf{k}_{\mathrm{tr}} = \frac{\mathbf{e} L}{A} \cdot \frac{2.3}{(t_{a} - t_{a})} \cdot 10 \mathrm{g}$ | 10 <u>h</u> 1(0m/s | ec) 2,662 × | ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~ | 1.331 × 10 -8 2.64206 × 10 | 3.80619 | 3,85 206 | W. 2,7 | a de parte rec | o • 2,276 |
| (TEMPÉR | TEMPERATURE ATURE DE L'EAU) | т (* | | | 27.3 | 26.5 | ×15° 26.8 | W. 2.2 | | · 11022 |
| *** | $\mu_{\mathrm{T}/\mu_{15}}$ | | 0.78 | ?2 | 0.747 | 0,764 | 0,747 | <u>"* 4</u> | <i>w</i> = | 37.56 % |
| XX MEAN VA | $k_{15} = k_T \frac{\mu_T}{\mu_{15}}$ ALUE OF k ₁₅ | | 2.50246 | × 10 | | 2.90793 x 10 | -0 | MEAN WATE (TENEUR MO | YENNE E | n eau) |
| (VALEUR | MOYENNE DE kis) | | | | Z, 5 | 65 ×10 | om/sec | - | w = | 37.56 % |

OFFERENCE BETWEEN HEAD WATER AND TAILWATER
 (DFFÉRENCE ENTRE LE NIVEAU D'EAU EN TÊTE DE COLONNE ET LE NIVEAU D'ÉPANCHEMENT)
 * * # # T IS THE COEFFICIENT OF VISCOSITY OF THE WATER AT T C.
 (#T EST LE COEFFICIENT DE VISCOSITÉ DE L'EAU Ă T C.

* * COEFFICIENT OF PERMEABILITY AT T C COEFFICIENT DE PERMÉABILITÉ À T C OU 15°C

185

ļ

PERMEABILITY TEST (FSSAL DE PERMÉABILITÉ)

| VAME | LOF SURVEY & LOCALITY | DE PE | RMÉABIL | llEJ | | | DATE | p | <u> </u> |
|--------------|---|------------------|--------------------|--|--|---------------------------------------|--------------------------|----------------|---|
| | INATION DE L'ENQUÊTE ET LOCALITÉ | | : | | | | (DATE) | | |
| | PLE NO. & DEPTH L'ÉCHANTILLON ET PROFONDEUR) | <u>I</u> – | TP-1 | 3.0' | L A. | | TESTED BY (ESSAI PAR) | | |
| | ARATUS NO. E L'APPAREL) | | ONTAINER NO | | . [| SAMPLE (ÉCHANTIL | | | D · DISTURBED REMANE) |
| - C. L | DIAMETER (DIAMETRE) (m) | | | CONDITIONS (CONDITIONS | du spéci | (EN) | BEFORE (AVANT ES | | AFTER TEST (APRES ESSAI) |
| ð | CROSS SECTIONAL AREA (SURF. DE LA SECTION) (4 (am 2) | 1.0 | (PO | GHT (CONTAINER+S DS (RÉCIPIENT+SI | | | (8) 3,56 | <u>, 22</u> | 3,628,72 |
| କ୍ର ଜୁନ | DIAMETER (cm) (DIAMETRE) CROSS SECTIONAL AREA | | (PO | SHT OF SPECIMEN DS DU SPÉCIMEN) T. DENSITY | | ₩ , =₩'₩ | 11043 | .85 | 1,687.35 |
| SPECIME | (SURF. DE LA SECTION) | <u>&/. '</u> | 7/ IDEN | ISITÉ HUMIDE) GREE OF SATURATI | | Y1=₩1/V(9/0 | | .7/ | 1.77 |
| <u>&</u> | (LONGUEUR) | 11.0 | 55 (DEC | GRE DE SATURATIO | | | | 3.0 | 94.4 |
| - 11 A | (VOLUME) V=AL(am ³) HT OF CONTAINER | 951. | 92 (TE | NEUR EN EAU) | | | | <u>P 44</u> | 44.8 |
| SPE | DU RÉCIPIENT) W.(g) | -0 | | NSITÉ SÉCHE) D RATIO | γ ₄ = γ _t , | /(1+ ₁₀₅)(g/ | / | 22 | /, 22 |
| _ | S SPÉCIFIQUE) G, | 2.90 | 2 (110 | KCE DES VIDES) | ing ing an <u>a</u> ri ang ing ing | • • • • • • • • • • • • • • • • • • • | | 377_ | 1.317 |
| b | T NO.: E L'ESSAI) | | 1 | 2 | and the second second | 3 | WATER CON (TENEUR EN | | |
| OME | OF INITIAL OBSERVATION INT OU L'OBSERVATION COMMENCE ; | 1.9/24 | 9:00AM | 9/24 9:00 AM | 9/24 9:00 AM | 9:00AM | | N | a |
| OM | OF FINAL OBSERVATION INT OU L'OBSERVATION FINNIT) | t. // | 5:00 PM | 955 9:00AM | 9/25 5:00PM | 9/26 9-30AH | W. | | • |
| | PS ÉCOULÉ) t =-t 1 | sec) 2 | 8,800 | 86,400 | 115,200 | 174,600 | W. | N N | |
| CONSTANTS) | X HEAD (DIFFÉRENCE DE NIVEAU) h | (om) * | | | | | | <u>w</u> = | - % |
| | A·(t _i -t _i) | | | | | | | <u></u> | |
| MVEAUX | | | | | | | | 2 M 5,5 W | |
| Sec | VOLUME OF DISCHARGE IN $t_{\pm}-t_{\pm}$ (VOLUME D'ÉPANCHEMENT EN $t_{\pm}-t_{\pm}$) | (om²) | | | | | W., | Ņ | 1. 52.9 |
| (MÉTHODE | $Q/A \cdot (t_1 - t_1)$ | | | | | | MEAN WATE | W = | |
| Ĵ | $k_{T} = \frac{L}{h} \cdot \frac{Q}{A(t_{2} - t_{1})} (cm)$ $M HEAD AT \ t_{1} \qquad b$ | | | | | | (TENEUR MO | | |
| ES) | (DIFF, DE NIVEAU Ăt, [⊓] ★ HEAD ATt, | | 30,0 | 130,0 | | 130,0 | L | w = | |
| VARABL | (DIFF. DE NIVEAU À t, " | (om) / | 26, 6 | 121.8 | 119.6 | 114.5 | WATER CON (TENEUR EN | | |
| N XN | h ₁ /h ₁ | | | | | | | | Ιά |
| NVEAUX. | lòg ₁₃ (h ₁ /h ₂) | | 01151 | 0.02830 | 1-1-1-1-1-1 | 0.05514 | W. W. | | l <u>e</u> stantes de la seconda de l |
| MÉTHODE DES | <u>د ا</u> ۵۱/۸ | | 1.65 | 11.65 | | 11.65 | W | | 1. |
| ÉTHODI | 2.3/(t ₁ -t ₁) | | 1426 | 0,1426 | 0,1426 | 0,1426 | | | |
| ¥. | $ \frac{2}{4} = \frac{4L}{A} \cdot \frac{2}{(t_{1}-t_{1})} \cdot 10 \cos \frac{h_{1}}{h_{2}} (\cos \frac{h_{1}}{h_{2}}) $ | | 186×105 | 2.662 × 10 | × 10 | ×10 103579 | W. 2, 2/ | | ta 1. 1.672 |
| NAT | ER TEMPERATURE | | 1078×10 9.0 | 1.07427 × 10 | × 10 5 | ¥ 10 5 | W. 1.67 | 2 1 | 1. 454 |
| (L.M) (A) | PÉRATURE DE L'EAU) $\mu_{T/\mu_{15}}$ | | <u>7.0</u> .714 | 30,0 0.699 | 0.69 | 31,0 | W. 54 | | 1, 1,218 = 44,8 % |
| E XX | μ_{15} k (5 = k $\tau = \frac{\mu_{1}}{\mu_{15}}$ | | | 7.50926×10 | 17,20611 7,20611 × 108 | | MEAN WATE | R CONTE | INT |
| FAR | H 15 N VALUE OF K15 EUR MOYENNE DE K15) | - 7. | 35010×10 | | <u>× 10°</u> 90 × 10 | <u>a</u> | (TENEUR MO | YENNE E ₩ ≔ | n eau) 44, 8 % |

:

2 đ,

d i •

с. 1.5. г.

M DEFERENCE BETWEEN HEAD WATER AND TAILWATER , COFFÉRENCE ENTRE LE INVEAU D'EAU EN TÊTE DE COLONNE ET LE INVEAU D'ÉPANCHEMENT) M M M HT IS THE COEFFICIENT OF VISCOSITY OF THE WATER AT T'C. (HT EST LE COEFFICIENT DE VISCOSITÉ DE L'EAU X T'C.

* * COEFFICIENT OF PERMEABILITY AT T'C COEFFICIENT DE PERMÉABILITÉ À T C 00 15°C)

| | OF SURVEY & LOCALITY NATION DE L'ENQUÊTE ET LOCALITÉ | | | | | DATE (DATE) | n de la compañía Recta de la compañía |
|------------------------|---|------------------------------|---|--|---------------------------------------|----------------------------------|--|
| 1.11 | LE NO & DEPTH C ÉCHANTILLON ET PROFONDEUR) | - TP: | | 3 m | | TESTED BY (ESSAI PAR) | |
| | ARATUS NO. E L'APPAREIL) | CONTAINER N (N° DU RÉCIPI | | | SAMPLE (ÉCHANTIL | UNDISTURB | ED · DISTURBED REMANIE) |
| - 2 - 2 | DIAMETER (DIAMETRE) | | CONDITIONS (CONDITIONS | 1. A. B. | | BEFORE TEST (AVANT ESSAL) | AFTER TEST (APRES ESSAI) |
| - W | CROSS SECTIONAL AREA | | | PECIMEN) | | NAME OF BRIDE DOLLARS OF | |
| 10 | DAMETER (DAMETRE) | (P | UGHT OF SPECIMEN OOS DU SPÉCIMEN) | | ₩, = ₩`-₩ | | |
| įŽ[(| | <u>}/,7/ [[06</u> | (et density Insité humide) | Sec. And | r _t =W _t /V(q/a | | |
| | | 1.65 10 | EGREE OF SATURATIO | | s.(| %) 84.7 | 1.02 |
| | VOLUME (VOLUME) V=AL(om ³) | Π | (ATER CONTENT ENEUR EN EAU) | | w | 38,1 | 5/.2 |
| (POIDS | HT_OF_CONTAINER S_DU_RECIPIENT) Wo(g) | (D | RY DENSITY ENSITÉ SÉCHE] | $\gamma_d = \gamma_t$ | '(1+ <u>;;;</u>)(g/ | cm ³) 1,27 | 1.19 |
| SPEC (POIDS | CIFIC GRAVITY S SPECIFIQUE) G, | | OID RATIO IDICE DES VIDES) | | 6 | 1.33/ | 1.487 |
| | T NO. E L' ESSAI) | 1 | 2 | | 3/10/3 | WATER CONTENT B | |
| MOME | OF INITIAL OBSERVATION INT OU L'OBSERVATION COMMENCE) | 35 9:00AM | 1 35 9:00 AM | 9/25 9.00AM | 9/25 9:0014 | | Na |
| MOME | OF FINAL OBSERVATION ENT OU L'OBSERVATION FINNIT) t | | 1 9/26 9: 30 AM | | | [² | NJ |
| | PSED TIME PS ÉCOULÉ) t :-t :(sec) | | 88,200 | 1 1 1 1 1 1 | 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | | W. W, |
| ANTS | ¥≊ HEAD (DIFFÉRENCE DE NIVEAU) h(∞m) | | | | · · · · · · · · · · · · · · · · · · · | W | = % |
| METHOD | $A:(t_2-t_1)$ | | | | | 1. start | Ya |
| οΨ | LZħ | | | | | W. 185,4W. 146 W. 146,1W. 42. | |
| H SS | VOLUME OF DISCHARGE IN $t_1 - t_1$ (VOLUME D'ÉPANCHEMENT EN $t_1 - t_1$) Q(\sin^3 |) | | | | W. 69.3 | W, 103,2 |
| CONSTANT MÉTHODE DI | $Q/A_1(t_2-t_1)$ | | | | | | = .38./ % |
| ΞΞ | $k_{T} = \frac{L}{h} \cdot \frac{Q}{A(t_{2} - t_{1})} (on/sec$ $* \text{HEAD} \text{AT } t_{1} \text{b} (c)$ | | dia anti- Ny anti- Ny anti- Ny anti- | | | (TENEUR MOYENNE | 雪山 についた しょうせいせ |
| ES) | (DIFF, DE NIVEAU Ă t , | 1,50,0 | | 130,0 | 130,0 | <u>w</u> = | 38,1 % |
| VARIABLI | (DFF. DE NIVEAU À t ₂ | 128.7 | 124.6 | 118,2 | 113.2 | WATER CONTENT A | |
| | h _i /h _e | | | | | | No |
| METHOD | log ₁₀ (h ₁ /h ₂) | | 0.0.1843 | 1 | 0.06010 | | W, W, |
| DES DES | a - L | | | 11.65 | | | W, |
| FALLING H | aL/A | | 0,1426 | 4 | 0,1426 | <u></u> | ≈ |
| A ME | $\frac{2.3/(t_2-t_1)}{k_1 - \frac{aL}{A}, \frac{2.3}{(t_2-t_1)}, 10 g_{10} \frac{h_1}{h_2} (c_m/sec$ | 이 김 씨는 것 같이 있어? | 5 2.608 × 10 8 -8 | 17:0381 | 8.873 × 10 7.60478 | ₩. 2,166 | No. Wi Acad |
| | ER TEMPERATURE | 41/05/20 110 | 6.85337×10 | × 10 ⁸ | ×10-* | W. 1,588 | |
| (TÉM ¥¥) | PÉRATURE DE L'EAU) T (°C | | 31,0 | -1 | 3/,2 | W. 578 | W, 1.128 |
| ** | $\frac{\mu_{\rm T}}{\mu_{\rm H5}}$ | 0.698 | 0.684 8 4.68770×10 | 1.684 | 0.684 | MEAN WATER CONT | = <u>5-1,2 %</u> TENT |
| | $k_{15} = k_T \cdot \frac{\mu_T}{\mu_{.15}}$ N VALUE OF k_{15} | 3.47071 *1 | 0 4.68770×10 5,144 | ×10 ⁸ | ×108 | (TENEUR MOYENNE | en eau) 5-7, 2 % |
| (VAL | EUR MOYENNE DE k 15) | | 5,144 | + * /0 | | | |

N. K. FORM NO. 017 (1975)

| | | | BILITY TES E PERMÉ | | ITÉ) | | | | | |
|---|--|--------------------|---------------------------------------|-----------------|---|-----------------------|--------------------------|----------------------|---|--|
| | E OF SURVEY & LOCALITY IINATION DE L'ENQUÊTE ET LOCALITÉ | | | | | | | DATI (DAT | | er med values of 2000 and 200 |
| | PLE NO. & DEPTH E L'ÉCHANTILLON ET PROFONDEUR) | Л | | 4 | 3 | 114 5:0 | | TESTEI (ESSAI | | |
| | ARATUS NO. E. L'APPÀREIL.) | | CONTAINE (N° DU RÉ | | n | | SAMPLE (ÉCHANT | | UNDISTURB | ED DISTURBED REMANIÉ) |
| E CEL | DIAMETER (DIAMETRE) | 97A) | | | CONDITIONS ((CONDITIONS) | du spécii | MEN) | | FORE TEST ANT ESSAL) | AFTER TEST (APRES ESSAI) |
| BURETTE (BURETTE) | CROSS SECTIONAL AREA (SURF. DE LA SECTION) a (a | n ²) | 1.0 | (POI | HT (CONTAINER+S DS (RÉCIPIENT+SF | Pécimen) |) W | 1 (8) 3, | , 637.79 | 3,751,1 |
| | DIAMETER (DIAMETRE) CROSS SECTIONAL AREA | >***) | · · · · · · · · · · · · · · · · · · · | (POI | HT OF SPECIMEN XS DU SPÉCIMEN) DENSITY | | W ,==W'V | W ₅ (g) / | 619,32 | 1.732.7 |
| SPECIMEN SPECIMEN) | (SURF. DE LA SECTION) A(« LENGTH | *2) | F/.71 | (DEN | I DENSITY SITÉ HUMIDE) REE OF SATURATIO | | 7,=W,N(9 | /om ³) | 1.70 | 1.82 |
| SPE | (LONGUEUR) | | 1.65 | (DEG | REE OF SATURATION | | Ś | ,(%) | | |
| WFI | (VOLUME) V=AL(| | 51.92 | (TEN | EUR EN EAU) | | | (%) | | |
| (POID | S DU RÉCIPIENT) W | | | (DEN | SITÉ SÉCHE) | $\gamma_d = \gamma_1$ | /(1+; _{ičč})(g | (/cm ³) | 1,28 | 1.27 |
| | G, | | <u>7</u> 88 | | CE DES VIDES) | | e | | | 1 |
| | T NO. DE L'ESSAI) | | 1 | | 2 | | 3 | | R CONTENT B | |
| (MOM) | OF INITIAL OBSERVATION ENT OU L'OBSERVATION COMMEN | CE) ^I | 9/24 9:00 | PAM | 4/24 9:00 AM | 9/24 9:00AH | 9:0044 | | | Na |
| (MOM) | OF FINAL OBSERVATION ENT OU L'OBSERVATION FINNIT) | ť 2 | | | 9/26 9:30AM | | | Ψ. | | Ws |
| | ITS LOULE) | t (sec) | | - F | | · · · · | 345600 | W. | | W., W., |
| ANTSJ | ₩ HEAD (DIFFÉRENCE DE NIVEAU) | h`(∞**) | | | 5 m | | | - | <u>_w</u> | |
| ETHOD CONSTANT | $\mathbf{A} \cdot (\mathbf{t}_2 - \mathbf{t}_1)$ | · | | | | | | | | Na |
| HEAD ME | | | | · | | | | W. W. | | ₩s ₩c |
| H SHO | VOLUME OF DISCHARGE IN 1,-1 (VOLUME D'ÉPANCHEMENT EN 1,-1 |) ^{Q(cm3} |) | | : | | | W. | | Ψ. |
| CONSTANT | $Q/A \cdot (t_2 - t_1)$ | | | | | | | MEAN | WATER CONT | |
| <u></u> | * HEAD AT t ₁ | om/sec) | | | | | | (TENE | UR MOYENNE | en eau) |
| ES) | (DIFF, DE NIVEAU Ă L, ₩ HEAD AT L, | h 1 (m) | | | 130,0 | | 130.0 | 144A T.F | w = | CIED TEST |
| ARABL | (DIFF. DE NIVEAU Á t, | h 2(cm) |) 126,3 | y :- | 124.8 | 119.6 | 110.4 | | R CONTENT A | |
| 23 83 | h_1/h_2 | | | | | | | | | No |
| NIVEAUX | log ₁₃ (h ₁ /h ₂) a · L | | | | | 0.0362/ | 1 | Wa Wa | | W, W, |
| E E E E E E E E E E E E E E E E E E E | · | | ········· | | 11.65 | | | W | | ₩, |
| FALLING F | $\frac{2}{3}/(t_{1}-t_{1})$ | | | | 0.1426 1.317×105 | 8.802 | | | <u>w</u> | |
| ũž | $# #_{k_{T}} = \frac{aL}{A}, \frac{2.3}{(t_{2}-t_{1})} = 10g_{10} \frac{h_{1}}{h_{2}}$ | (om/sec | 2,6627 | | 1.317×10 3.33052×10 | 710 | 10 6,735 17 × 10 | w. | | No. W |
| | IER TEMPERATURE | T (°C) | | | 31,0 | | | Wa | مر میں بر اور میں میں میں میں میں میں اور | Ψ. |
| ** | | | | | 0.684 | | | W | w | W. |
| ** | $k_{15} = k_T \frac{\mu_1}{\mu_{15}}$ | | | | 2.27807×10 | | | | WATER CONT | ENT |
| | N VALUE OF k15 EUR MOYENNE DE k15 | | | لكحد | | 910 × | | L I CINEL | w = | |
| . T/1L | | | ND TAILWATER | | <u> </u> | | | | | ERMEABILITY AT 1 |

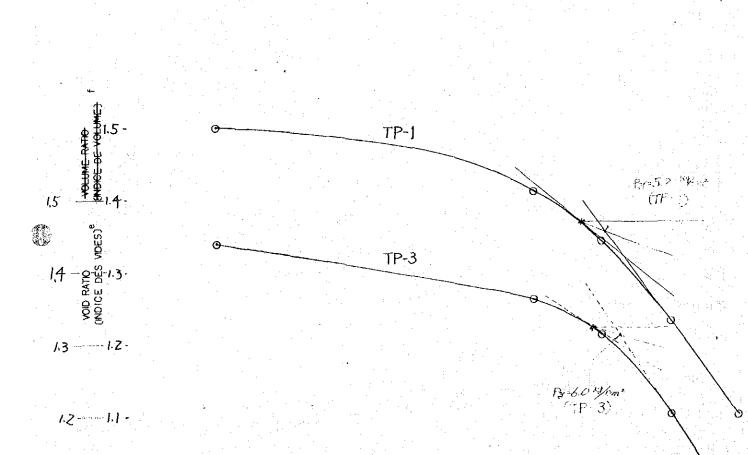
2.10 Consolidation Test

| | | | | | 189 |
|---|--|---|---|---|--|
| | | ONSOLIDATION SSAI DE CONSOLI | | -log P CURVE -log P (COURBE) | FOR REPORTING (POUR LE RAPPORT) |
| NAME OF SURVEY & L (DÉNOMINATION DE L'ENQUÊT SAMPLE NO. & DEPTH (N' DE L'ÉCHANTILLON ET PE | E ET LOCALITE) 4 | 900 and TP-3 | (<u>Z.5</u> (<u>Cz.</u> ; m~(<u>3.D</u>) | DATE (DATE.) TESTED BY (ESSAI PAR) | VPC |
| *UNDISTURBED OR DISTURBED ONTACT OU REMANIÉ) | * CLASSIFICATION (CLASSIFICATION)' | *SPECIFIC GRAVITY Gs (POIDS SPÉCIFIQUE) | ¥ LIQUID LIMIT. ⊮∟(%) (LIMIT DE LIQUIDITÉ) | (DIMENSION INITIALE HEIGHT (HAUTEUR) | OF SPECIMEN DU SPECIMEN) DIAMETER (DIAMETRE) |
| DISTURBED *INITIAL WATER CONTENT w, (%) (TENEUR EN EAU INITIALE) | MH (CH) *INITIAL VOLUME RATIO. 1 (INDICE DE VOLUME) | Z.83 (Z.71) **INITIAL VOID RATIO 0. (INDICE DES VIDES INITIAL) | 83.10 (64.15) *DEGREE OF INITIAL SATURATION Sr (%) DEGRE DE SATURATURATION INITIALE | INDEX C, | YIELD STRESS OF CONSCLICATION PY (4/~~?) LIMITE D'ÉLASTICITÉ DE CONSCLICATION) |
| | | | 77.4 (80.9) | | 5.Z (6.0) |

e-log p

CURVE f-log p (COURBE)

* THE RECORDING IS NOT NECESSARY IN THE CASE THAT CALCULATION DATA SHEET IS APPENDED. (LES CHIFFRES NE FIGURENT PAS ICIQUAND LA FEUILLE DES CALCULS DÉTAILLÉS EST ANNEXÉE)



| 190 | | | | | ter de la composition Altre de la composition de la compositio |
|---|--|---|--|--|---|
| | and the second | ONSOLIDATION SSAI DE CONSOL | - File a sector in the 1 | -log P CURVE -log P (COURBE) | FOR REPORTING (POUR LE RAPPORT) |
| NAME OF SURVEY & L (CÉNOMINATION DE L' ENQUÊT SAMPLE NO. & DEPTH (N' DE L'ÉCHANTILLON ET P | E ET LOCALITE) Age | and TP5 | (3 m~ | DATE (DATE) TESTED BY m) (ESSAI PAR) | IPC |
| WUNDISTURBED OR DISTURBED ONTACT OU REMANNÉ) | * CLASSIFICATION (CLASSIFICATION) | *SPECIFIC GRAVITY Gs (POIDS SPECIFIQUE) | * LIQUID LIMIT .v. (%) (LIMIT DE LIQUIDITÉ) | * INITIAL DIMENSION (DIMENSION INITIALE HEIGHT. (HAUTEUR) (m) | |
| DISTURBED *INITIAL WATER CONTENT W. (%) (TENEUR EN EAU INITIALE) | MH (SC) *INITIAL VOLUME RATIO 1 (INDICE DE VOLUME) | 2.87(2.66) *INITIAL VOID RATIO e. (INDICE DES VIDES INITIAL) | 83.90 (48.40) * DEGREE OF INITIAL SATURATION SY (%) DEGRE DE SATURATION INITIALE | COMPRESSION INDEX C, | YIELD STRESS OF CONSCLIDATION Py (4/00* LUMITE D'ÉLASTICITÉ DE CONSCLIDATION) |
| | | | 74.0 (81.0) | | 5.0 (9.1) |

* THE RECORDING IS NOT NECESSARY IN THE CASE THAT CALCULATION DATA SHEET IS APPENDED. (LES CHIFFRES NE FIGURENT PAS ICIDUAND LA FEUILLE DES CALCULS DÉTAILLÉS EST (INNEXÉE)

TP-4

1.5

14.

1.3-

- ADICATE PERMIT

VOID RATIO (INDICE DES VIDES).

09-

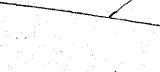
08

0.7

0.05

e – log p CURVE f – log p (COURBE)

= 5.0 K/cm



0,2

0.3

0.4

0.5 0.6

0.1

TP-5

Py=9.1 Ky/cm

CONSOLIDATION PRESSURE p(Ap / on 2) (PRESSION DE CONSOLIDATION)

0.8

1.0

N. K. FORM NO. 013 (1975)

หา

15

| | landa an | | | | 191 |
|---|---|--|--|---|---|
| | | ONSOLIDATION SSAI DE CONSOLI | | -log P CURVE -log P (COURBE) | FOR REPORTING (POUR LE RAPPORT) |
| NAME OF SURVEY & L (DENOMINATION DE L'ENQUÊT SAMPLE NO, & DEPTH (N' DE L'ÉCHANTILLON ET PI | E ET LOCALITE) | | (m ~ | DATE (DATE) TESTED BY (ESSAL PAR) | <i>(PC</i> |
| WUNDISTURBED OR DISTURBED (NTACT OU REMANE) | # CLASSIFICATION (CLASSIFICATION) | #SPECIFIC GRAVITY GS (POIDS SPECIFIQUE) | WELIQUID LIMIT ₩L(%) (LIMIT DE LIQUIDITÉ) | IK INITIAL DIMENSION (DIMENSION INITIALE HEIGHT (HAUTEUR) (cm) | DU SPECIMEN) |
| DISTURBED WINITIAL WATER CONTENT (20, (%) (TENEUR EN EAU INITIALE) | SC (SM) WINITIAL VOLUME RATIO, f (INDICE DE VOLUME) INITIAL | 2.84-(2.85) #INITIAL VOID RATIO 0. (INDIGE DES VIDES INITIAL) | C2.33 (54.9) WDEGREE OF INITIAL SATURATION Sr (%) DEGRE DE SATURATION INITIALE | | NELO STRESS OF CONSCILICATION Py(4/m²) LIMPLE O'ELISTICITE DE CONSCILICATION |
| | | | 76.2 (76.3) | | 11.2 (4.7) |

THE RECORDING IS NOT NECESSARY IN THE CASE THAT CALCULATION DATA SHEET IS APPENDED. (LES CHIFFRES NE FIGURENT PAS ICIQUAND LA FEUILLE DES CALCULS DÉTALLÉS EST ANNEXÉE).

TP-8

TP-6

0.2

0,3

0.4

17

1.6

15

14

VOID RATIO (MUDICE DES MDES)

1.2.

11-

0

0.05

0.1

- WILLING FRAME

log p

f−log p

CURVE

(COURBE)

=4.7 Kg/cm2

Py= 11.2 Kg/cm2

CONSOLIDATION PRESSURE (PRESSION DE CONSOLIDATION) $p(kq/cm^2)$

0.5 0.6

0.8 1.0

2

3

N. K. FORM NO. 013 (1975)

· 10

. 15

6

| 182 | | | | | |
|--|---|---|--|--|---|
| | | ONSOLIDATION SSAI DE CONSOLI | | -log P CURVE -log P (COURBE) | FOR REPORTING (POUR LE RAPPORT) |
| NAME OF SURVEY & L (CÉNOMINATION DE L'ENQUÊT SAMPLE NO. & DEPTH (N' DE L'ÉCHANTILLON ET P | E ET LOCALITE) | 100 10 and 1P-12 | (2,5 m-3,0 | DATE (DATE) TESTED BY m.) (ESSAI PAR) | VPc |
| WUNDISTURBED OR DISTURBED (INTACT OU REMANIÉ) | * QLASSIFICATION (CLASSIFICATION)' | **SPECIFIC GRAVITY Gs (POIDS SPÉCIFIQUE) | ¥ LIQUD LIMIT ₩_(%) (LIMIT DE LIQUIDITÉ) | WEINITIAL DIMENSION (DIMENSION INITIALE HEIGHT (HAUTEUR) (cm) | DU SPECIMEN) |
| DISTURBED *INITIAL WATER CONTENT 10, (%) (TENEUR EN EAU INITIALE) | SC (SM) * INITIAL VOLUME RATIO INOTOE DE VOLUME INITIAL | Z.87(Z.77) *INITIAL VOID RATIO e. (INDICE DES VIDES INITIAL) | 97.0 (43.25) *DEGREE OF INITIAL SATURATION Sr (%) DEGRE DE SATURATURATION INITIALE | | VIELD STRESS OF CONSCLUDATION Py(4/*) LIMITE D'ÉLASTICITÉ DE CONSCLUDATION) |
| | | | 84.5 (89.0) | | 9.0 (10.0) |

* THE RECORDING IS NOT NECESSARY IN THE CASE THAT CALCULATION DATA SHEET IS APPENDED. (LES CHIFFRES NE FIGURENT PAS ICIQUAND LA FEUILLE DES CALCULS DÉTAILLÉS EST ANNEXÉE)

TP-10

TP-12

15

1.4

1.3-

1.2

VOID RATIO

1.0 ----

0.9 -

0.8-

0.05

0.1

0.2

VOLUME RATIO

e−log p CURVE (COURBE) f — log p

Py = 9.0 Kg/cm

1Py=10.0 Kg/1

10

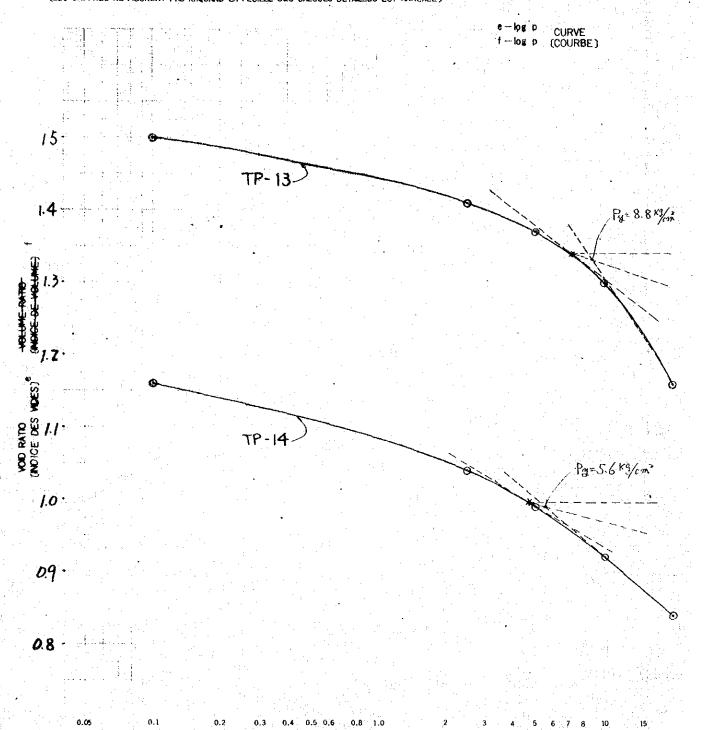
15

0.3 0.4 0.5 0.6 0.8 1.0

CONSOLIDATION PRESSURE (PRESSION DE CONSOLIDATION) Ď(*ką*/ms²) N. K. FORM NO. 013 (1975)

| | | | | | 193 |
|--|---|---|--|--|--|
| | | ONSOLIDATION SSAI DE CONSOL | a the second | (e-log P CURVE) (1-log P (COURBE) / | FOR REPORTING (POUR LE RAPPORT) |
| NAME OF SURVEY & L (DÉNOMINATION DE L'ENQUÊT SAMPLE NO & DEPTH (N' DE L'ÉCHANTILLON ET PI | E ET LOCALITE) Ago | 0 13 and TP-14 | 3.0 ((6.0)m~ | DATE (DATE) TESTED BY (ESSAI PAR) | NPC |
| HUNDISTURBED OR DISTURBED (INTACT OU REMAINÉ) | # CLASSIFICATION (CLASSIFICATION)' | INSPECIFIC GRAVITY Ga (POKOS SPÉCIFIQUE) | WELQUID LIMIT ₩L(% (LIMIT DE LIQUIDITÉ) | HEYAR | N OF SPECIMEN E DU SPECIMEN) DIAMETER (om) (DIAMETRE) |
| DISTURBED WINITIAL WATER CONTENT 10, (%) (TENEUR EN EAU INITIALE) | SM (SM) WINITAL VOLUME RATIO, 1 (MORE DE VOLUME) | 2.81 (2.83) RATIO (NOICE DES VIDES INITIAL) | S6. S6 (5960 MDEGREE OF INITIAL SATURATION S(9 DEGRE DE SATURATURATION INITIALE | COMPRESSION 6) INDEX C | TIELD STRESS OF ONFOLIDATION 'Py(4/) LIMITE O'ELASTICITE DE CONSOLIDATION) |
| | | | 69.9 (81.6) | | 8.8 (5.6) |

THE RECORDING IS NOT NECESSARY IN THE CASE THAT CALCULATION DATA SHEET IS APPENDED. (LES CHIFFRES NE FIGURENT PAS ICIQUAND LA FEURLE DES CALCULS DÉTAILLÉS EST ANNEXÉE)



CONSOLIDATION PRESSURE (4g/om²) (PRESSION DE CONSOLIDATION)

N. K. FORM NO. 013 (1975)

| Wanter and a second | | ONSOLIDATION SSAI DE CONSOL | | -log P CURVE -log P (COURBE) | FOR REPORTING (POUR LE RAPPORT) |
|--|---|---|--|--|------------------------------------|
| NAME OF SURVEY & L (CÉNOMINATION DE L' ENQLÊ SAMPLE NO, & DEPTH (N' DE L' ÉCHANTILLON ET P | TE ET LOCALITE) Ago | 0 16 and TP-17 | (Z.5 m-3.0 | DATE (DATE) TESTED BY (ESSAL PAR) | IPc |
| WUNDISTURBED OR DISTURBED ONTACT OU REMANIE) | * CLASSIFICATION (CLASSIFICATION)' | *SPECIFIC GRAVITY Gs (POIDS SPÉCIFIQUE) | ¥ LIQUD LIMIT ₩L(%) (LIMIT DE LIQUIDIT≦) | * INITIAL DIMENSION (DIMENSION INITIALE HEIGHT (HAUTEUR) (om) | |
| DISTURBED *INITIAL WATER CONTENT 100 (195) (TENEUR EN EAU INITIALE) | MH (MH) * INITIAL VOLUME RATIO (INCCE DE VOLUME) | 2.85 (2.86) *INITIAL VOID RATIO (INDICE DES VIDES INITIAL) | \$0.0 (69.20) *DEGREE OF INITIAL SATURATION S(%) DEGRE DE SATURATURATION INITIALE | COMPRESSION INDEX C. | YIELD STRESS OF |
| | | | 73.9 (72.8) | | 7.0 (4.5) |

* THE RECORDING IS NOT NECESSARY IN THE CASE THAT CALCULATION DATA SHEET IS APPENDED. (LES CHIFFRES NE FIGURENT PAS ICIQUAND LA FEUILLE DES CALCULS DÉTAILLÉS EST ANNEXÉE)

e-log p CURVE $f - \log p$ (COURBE)

=4.5 kg/cm



TP-17

TP-16

1.3 - 1.0-

1.4 -

13

1.5 13 1.2.

WOR RATIO

194

1.Z - 0.9-1.1 - 0.8-(TP-16) (TP-17)



0.1

0.2

0.3

0.4

0.5 0.6

CONSOLIDATION PRESSURE p(Ag / om 2) (PRESSION DE CONSOLIDATION)

0,8

1.0

N. K. FORM NO. 013 (1975)

10

Py = 7.0 8/cm

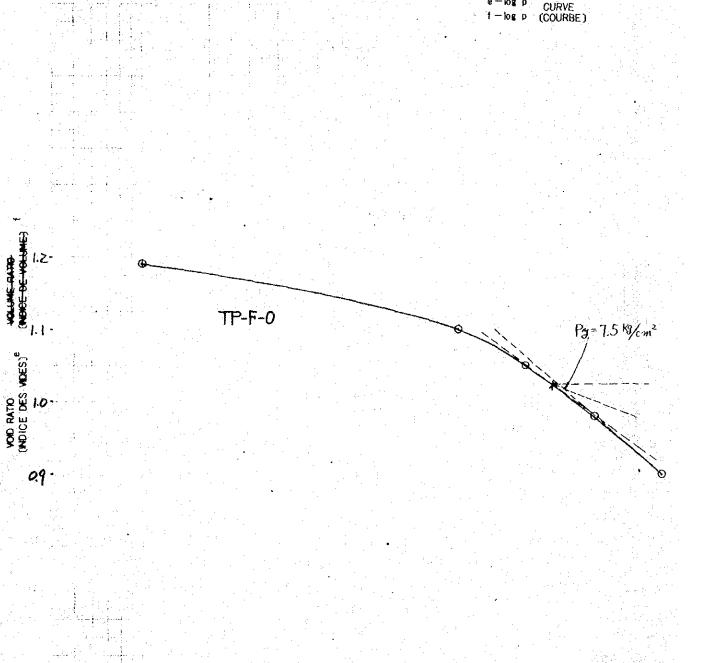
| | 1997 1997 1997 | | | | tin Tir | | | 195 |
|---|--|------------|--|--|-------------------------------|--|------|--|
| | | | DNSOLIDATION SAI DE CONSOL | The second process of the secon | (e log (t log | P CURVE P (COURBE) |) | FOR REPORTING (POUR LE RAPPORT) |
| NAME OF SURVEY & L (DÉNOMINATION DE L'ENQUÊ SAMPLE NO. & DEPTH (N' DE L'ÉCHANTIALON ET P | TE ET LOCALITÉ) | AP TP-E | | <u>сната скласт с скласт с скласт с скласт с скласт с с скласт с с с с с с с с с с с с с с с с с с </u> | m) | DATE (DATE) TESTED BY (ESSAI PAR) | N | Pc |
| MUNCISTURBED OR DISTURBED (INTACT OU REMANÉ) | H CLASSIFICAT | | INSPECIFIC GRAVITY Gs (POIDS SPÉCIFIQUE) | WELKORD LIMIT 100 (% (LIMIT DE LIQUIDITÉ) | i rr | VITUAL DIMENS) XMENSION INITU HT EUR) (| LE D | |
| MINITIAL WATER CONTENT N. (%) (TENEUR EN EAU INITIALE) | RATIO INITIAL VOLUN RATIO NDICE DE VOL INITIAL | 1 | 2.99 IN INITIAL VOID RATIO 6. (INDICE DES VIDES INITIAL.) | 46.75 MDEGREE OF INITIAL SATURATION SC (9 DEGRE DE SATURATURATION INITIALE | 6) N _{I (} INDICI | RESSION | C, C | LD STRESS OF XSOLIDATION Py(kp/~?) MITE D'ELISTICITE DE CONSOLIDATION) |
| | | | | 84.9 | | | | 7.5 |

ò. −log p

THE RECORDING IS NOT NECESSARY IN THE CASE THAT CALCULATION DATA SHEET IS APPENDED. LLES CHIFFRES NE FIGURENT PAS ICIQUAND LA FEUILLE DES CALCULS DÉTAILLÉS EST ANNEXÉE)

.

0.05



CONSOLIDATION PRESSURE $D(kq/om^2)$ (PRESSION DE CONSOLIDATION)

0.5 0.6

0.2

0.1

0.3

0.4

0.8 1.0

2

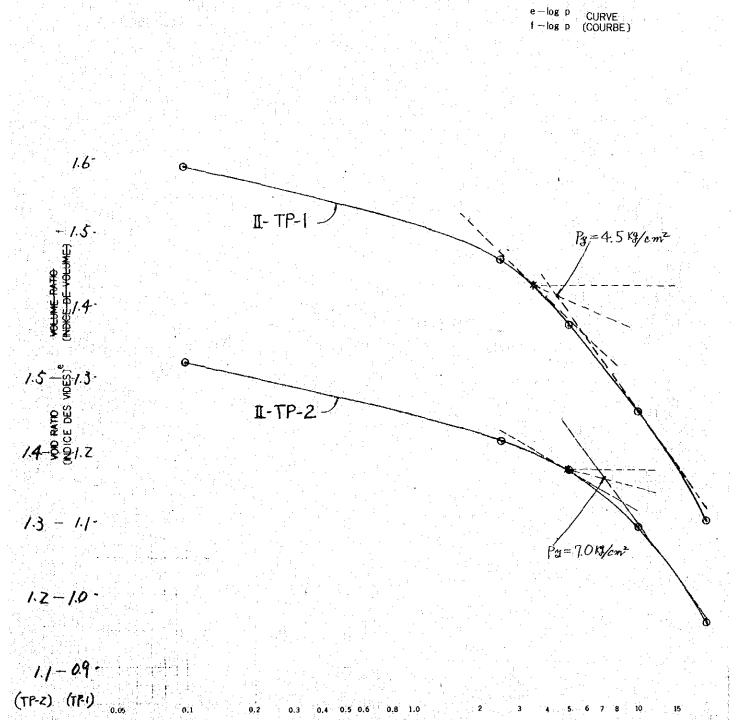
N. K. FORM NO. 013 (1975)

8

5

| 196 | | | | | |
|--|---|--|---|--|--|
| | | ONSOLIDATION SSAI DE CONSOLI | | log P CURVE log P (COURBE) | FOR REPORTING (POUR LE RAPPORT) |
| NAME OF SURVEY & LO (DÉNOMINATION DE L'ENQUÊT SAMPLE NO. & DEPTH (N' DE L'ÉCHANTIELON ET PE | E ET LOCALITE) Ag | 00 2-1 and TP-2 | (<i>J.O</i> m- | DATE (DATE) TESTED BY (ESSAI PAR) | NPC |
| DISTURBED | * CLASSIFICATION (CLASSIFICATION) | Gs | ¥ LIQUID LIMIT ₩L(%) (LIMIT DE LIQUIDITÉ) | * INITIAL DIMENSION (DIMENSION INITIALE HEIGHT (HAUTEUR) (om) | DU SPECIMEN) |
| DISTURBED * INITIAL WATER CONTENT W. (%) (TENEUR EN EAU INITIALE) | SC (SC) *INITIAL VOLUME RATIO (INDICE DE VOLUME (INITIAL) | 2.90 (2.92) #INITIAL VOID RATIO e. (INDICE DES VIDES INITIAL) | SZ.8 (S7.7) *DEGREE OF INITIAL SATURATION Sr (%) DEGRE DE SATURATION INITIALE | | YIELD STRESS OF CONSCURATION Py (4/~1) LIMITE D'ÉLASTIOTÉ TE CONSCUDATION |
| | | | 69.7 (72.1) | | |

* THE RECORDING IS NOT NECESSARY IN THE CASE THAT CALCULATION DATA SHEET IS APPENDED. (LES CHIFFRES NE FIGURENT PAS ICIQUAND LA FEUILLE DES CALCULS DÉTAILLÉS EST ANNEXÉE)



CONSOLIDATION PRESSURE (PRESSION DE CONSOLIDATION)

N. K. FORM NO. 013 (1975)

p(ka/on?)

| | | an a | | | 187 |
|---|--|--|---|---|---|
| | | ONSOLIDATION SSAI DE CONSOL | | -log P CURVE | FOR REPORTING (POUR LE RAPPORT) |
| NAME OF SURVEY & L (dénomination de l'enquêt SAMPLE NO, & DEPTH (N' de l'échantillon et pi | E ET LOCALITE) A2 | 20 P-4 and TP-5 | - (<u>m</u> ~ | DATE (DATE) TESTED BY m) (ESSAI PAR) | NPC |
| RUNDISTURBED OR DISTURBED Intact ou remanés | N CLASSIFICATION (CLASSIFICATION)' | HISPECIFIC GRAVITY Ge (POIDS SPECIFIQUE) | WELIQUED LIMIT W.(%) (LIMIT DE LIQUEDITÉ) | WINITIAL DIMENSION (DIMENSION INITIALE HEIGHT (HAUTEUR) (om) | DU SPECIMEN) |
| DISTURBED WINTIAL WATER CONTENT W. (%) (TENEUR EN EAU INITIALE) | SC (SC) WANTIAL VOLUME RATIO, 1 (MERCE DE VOLUME) | 2.94 (2.89) WINITAL VOID RATIO (INDIGE DES VIDES INITIAL) | SAIS (SS.95) NDEGREE OF INITIAL SATURATION S (%) DEGRE DE SATURATURATION INITIALÉ | | YIELD STRESS OF CONSOLIDATION Py(Ay/m*) (LIMITE D'ELASTIOTE DE CONSOLIDATION] |
| | | | 73.7 (78.8) | | 6.0 (3.5) |

WTHE RECORDING IS NOT NECESSARY IN THE CASE THAT CALCULATION DATA SHEET IS APPENDED. (LES CHIFFRES HE FIGURENT PAS ICIQUAND LA FEUILLE DES CALCULS DETALLES EST. ANNEXEE)

1.5

MUDICE DE VOLUME)

VOID RATTO

1.0-

09-

ĉ

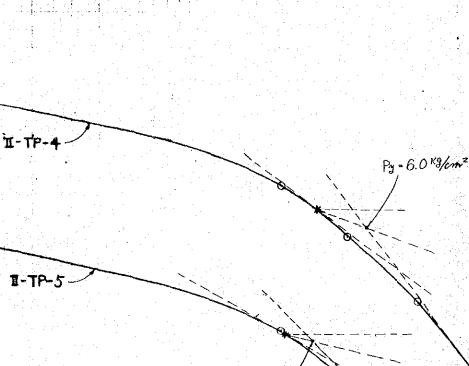
0.1

0.2

0.3

0.05

1.3





CURVE (COURBE)

e -log p

f-log p

CONSOLIDATION PRESSURE (PRESSION DE CONSOLIDATION)

0.8 1.0 2

 $p(k_q/om^2)$

0.4 0.5 0.6

N. K. FORM NO. 013 (1975)

እ

ତ

| 198 | | | | | a sama mana akar na saka karan na saka karan |
|--|--|--|--|--|--|
| | | ONSOLIDATION SSAI DE CONSOLI | | -log P CURVE -log P (COURBE) | FOR REPORTING (POUR LE RAPPORT) |
| NAME OF SURVEY & L (DÉNOMINATION DE L' ENQUÊT SAMPLE NO. & DEPTH (N' DE L'ÉCHANTILLON ET PI | E ET LOCALITE) $\mathcal{P} \mathcal{Y} $ | 9X - P-6 | (2.5 m~3.0 | DATÉ (DATE) TESTED BY (ESSAL PAR) | VPC |
| WUNDISTURBED OR DISTURBED ONTACT OU REMANED | * CLASSIFICATION (CLASSIFICATION) | **SPECIFIC GRAVITY Gs (POIDS SPÉCIFIQUE) | WELIQUED LIMIT WE (%) (LIMIT DE LIQUEDITÉ) | * INITIAL DIMENSION (DIMENSION INITIALE HEIGHT (HAUTEUR) (cm) | DU SPECIMEN) |
| DISTURBED WINITIAL WATER CONTENT w. (%) (TENEUR EN EAU INITIALE) | CH *(NITIAL VOLUME RATIO (NDICE DE VOLUME) INITIAL | 2.71 * INITIAL VOID RATKO •. (INDICE DES VIDES INITIAL) | 50.70 * DEGREE OF INITIAL SATURATION Sr (%) DEGRÉ DE SATURATURATION INITIALE | | YIELD STRESS OF CONSOLIDATION Py(4/~*) LIMITE D'ÉLASTICITÉ DE CONSOLIDATION |
| | | | 68.2 | | 30 |

* THE RECORDING IS NOT NECESSARY IN THE CASE THAT CALCULATION DATA SHEET IS APPENDED. (LES CHIFFRES NE FIGURENT PAS ICIQUAND LA FEUILLE DES CALCULS DÉTAILLÉS EST ANNEXÉE)

П-ТР-6

0.2

0.3

0.4

0.5 0.6

0,1

1.5-

1.4-

1.3.

VOUD RATIO (NODICE DES VIDES)

1.0-

09-

08.

0.05

VOLUME RATIO

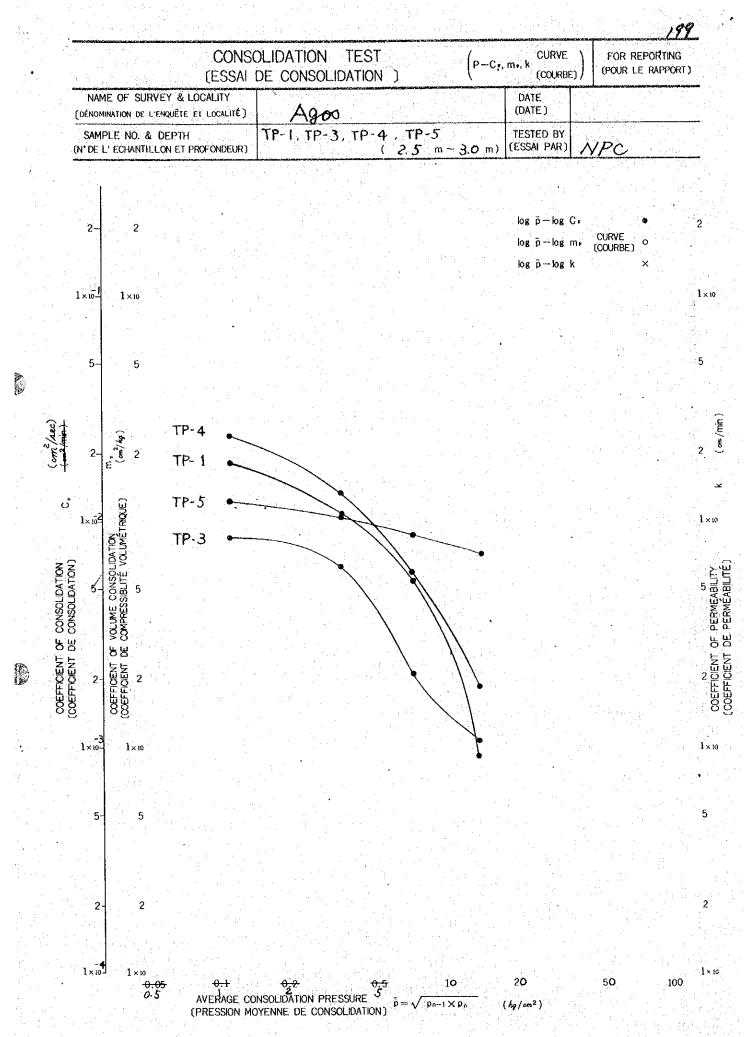
e — log p f-log p

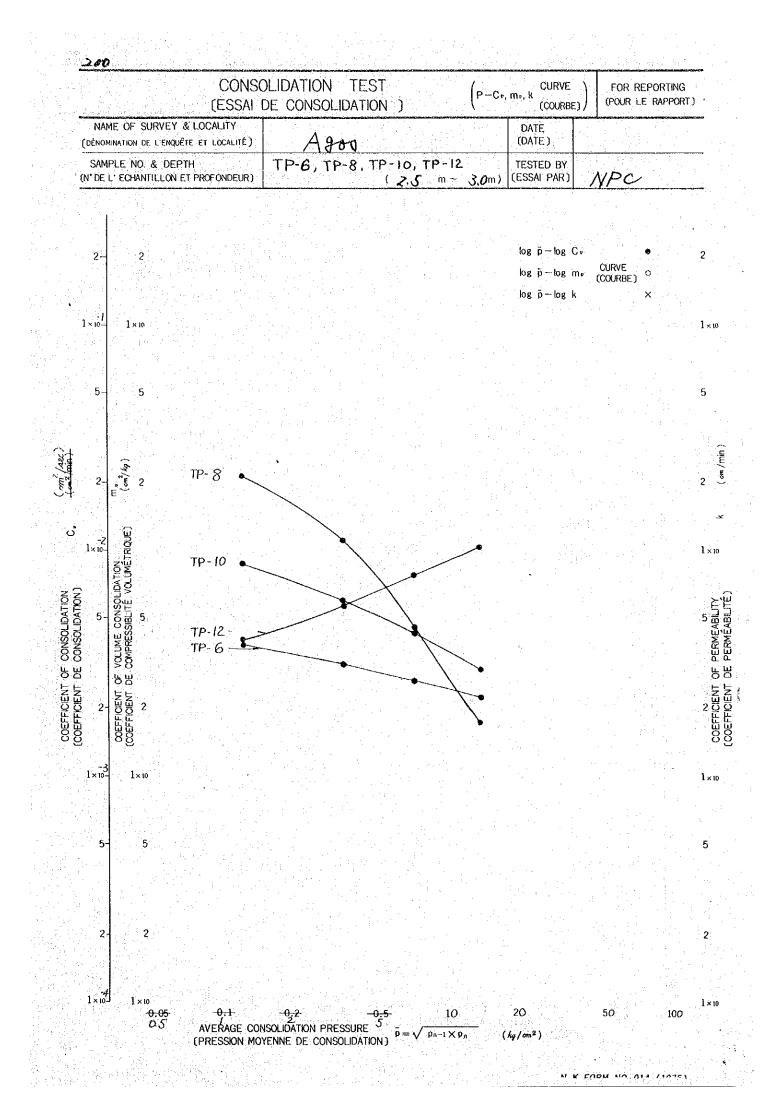
CURVĖ (COURBE)

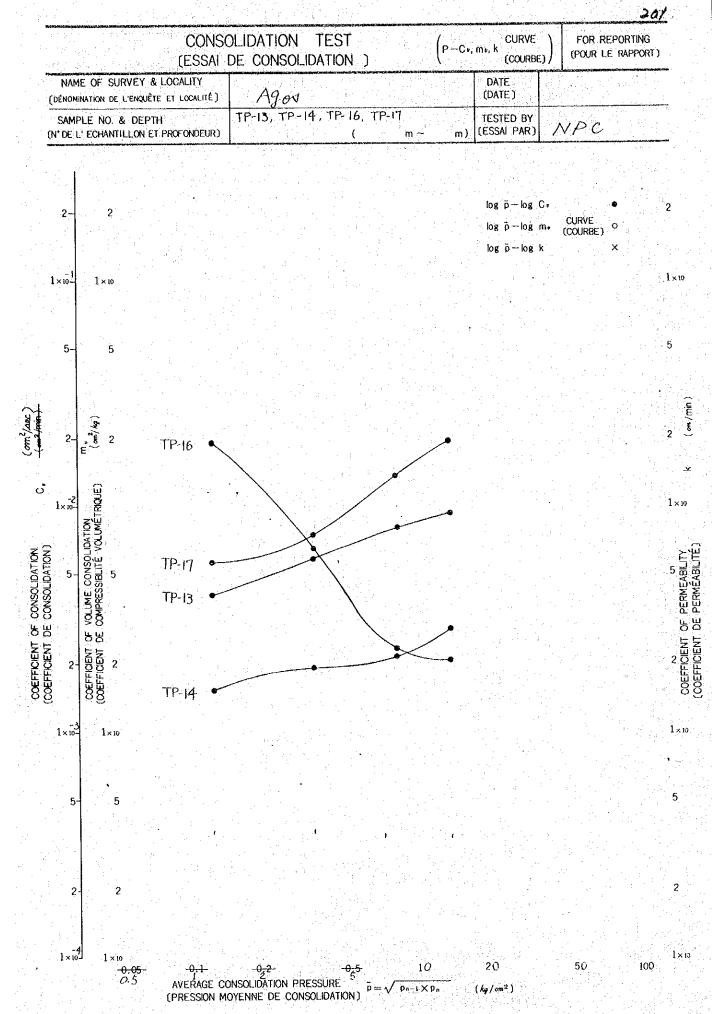
Py= 3.0 Kg/cm2

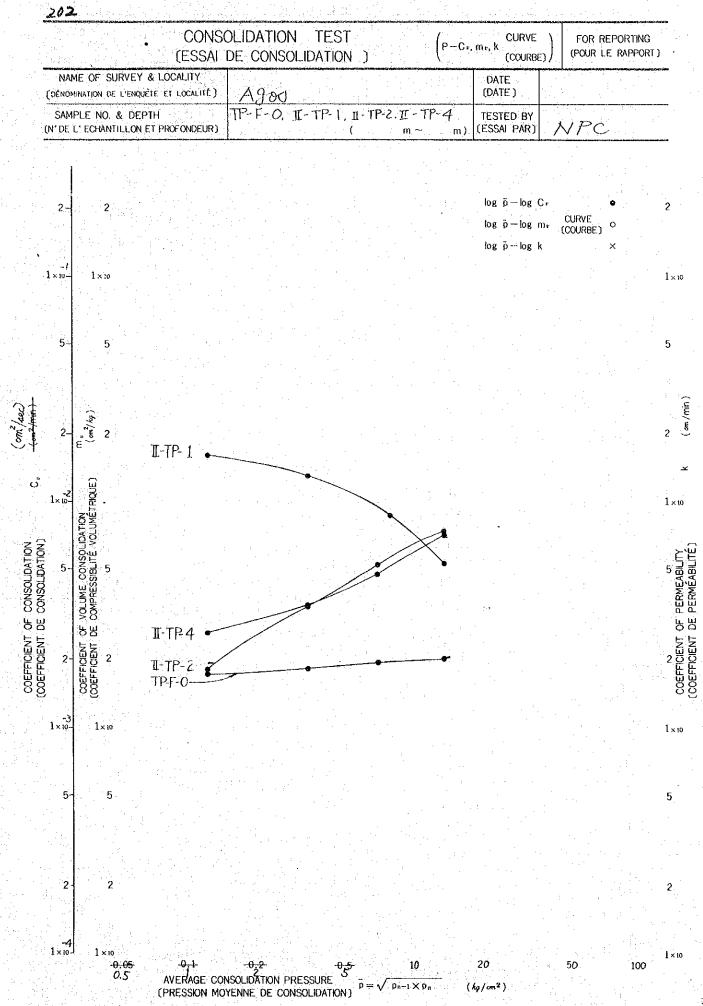
CONSOLIDATION PRESSURE (PRESSION DE CONSOLIDATION) $p(h_{\rm g}/m^2)$

0.8 1.0

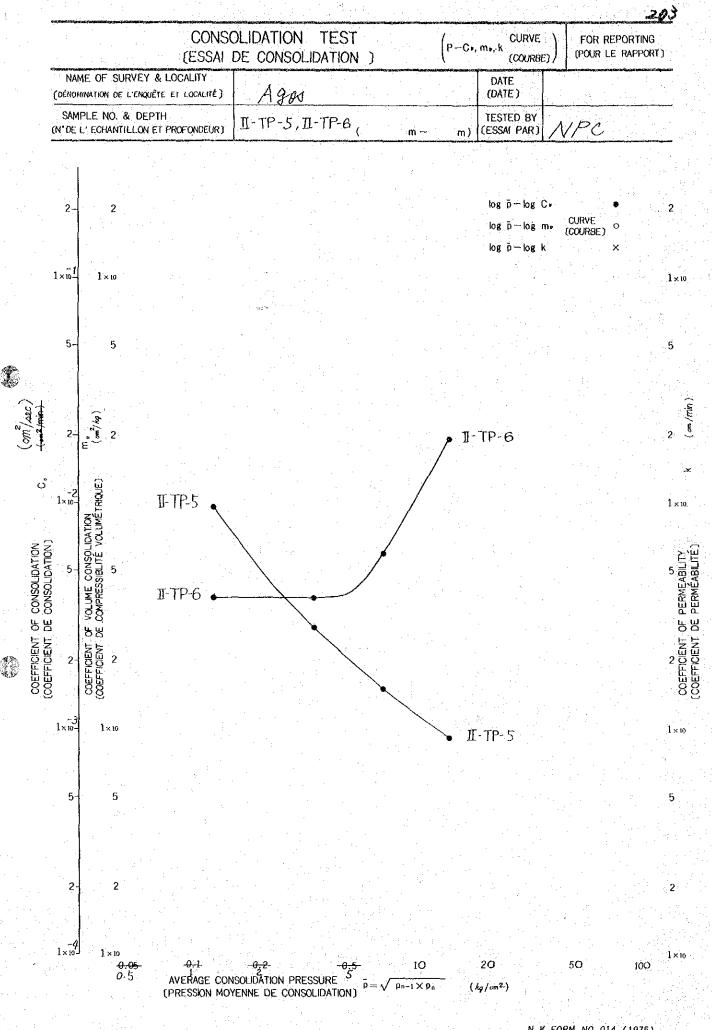








N K. FORM NO 014 (1975)

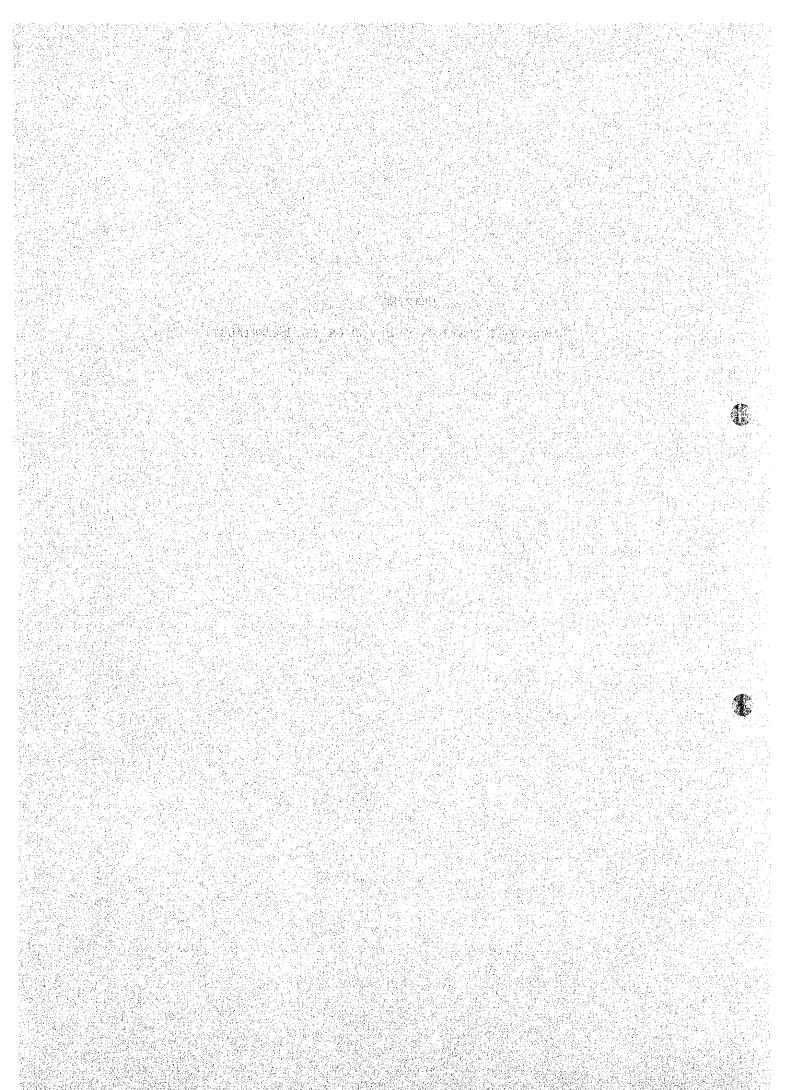


N. K. FORM NO. 014 (1975)

CHAPTER 3

LABORATORY TESTS ON SAND AND GRAVEL MATERIALS

D

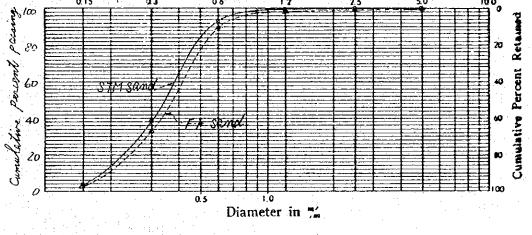


3.1

Sieve Analysis and Chemical Durability Test



| LOCALIC | on Agou | · · · | Plant_ | | D | ate | | | · · · · · · · · · · · · · · · · · · · |
|------------------|-------------|---------------------------------------|----------|------------------|---------|-----------|-------------------|----------|---------------------------------------|
| Sample | No | · · · · · · · · · · · · · · · · · · · | · | | Test | ted by | NPC | · | |
| i i | EVE AN | en de la composition | | | . ** | · · · | | | |
| I. JII | | | | STM Sand | | 1 | -F Sana -No. 2 | 6 | |
| Waight | of Sampl | e and (| ontainer | | | | | | • |
| - H. A. T. B. H. | of Contai | | Zomanici | • | | | | <u> </u> | |
| | of Sam | | a di | · | | | | | |
| Sleve | Cumulativ | | Retained | Cumulative | Sieve | Cumulativ | e Weight I | Retained | Cocoulative- |
| Size | (C+S) | C | S | Percent Retained | Size | (C+\$) | C | S | Percent Retain |
| 10 | | | | | 10 | | | | |
| 5 | | | | 99.9 | 5 | | | | 99 9 |
| 2.5 | | | | 99.8 | 2.5 | | | | 99.3 |
| 1.2 | | | | 99.8 | 1.2 | · · · · · | | | 98.4 |
| 0.6 | | | | 93.1 | 0.6 | | | | 89.6 |
| 0.3 | | | | 38.4 | 0.3 | | | | 33.4 |
| 0.15 | | | | 3.7 | 0.15 | | | .: : | 3.5 |
| Passing | | | | | Passing | · ; · | | | |
| Total | | : | | | Total | | | | L |
| Max. s | ize: 🐂 | , / A | Finer | iess modulus : | Max. | size : | ani.' Int | Fine | ness modulus |
| | | | | | - | £ | | | |
| | - | | | DECULO (| | 2000 | | | |
| | | | | RESULT (| | 512 | | | |
| | | 0.15 | 23 | 08 | 12 | . 2.5 | 5.0 | 1 | 00 |
| | √ <i>l∞</i> | | | | | | | | |
| | 80 | | | | | | | | ative Percent Retain |
| 200 | | | | | | | | | -4 💌 |



| Before Testing | Weight of Sample + Container | | |
|----------------|------------------------------|---|--|
| | Weight of Container | • | |
| | Weight of Sample | • | |
| After Testing | Weight of Sample + Container | • | |
| | Weight of Container: | • | |
| | Weight of Sample | • | |
| | Decreased Amount | T | |

| Size (C+S) C S Percent Retained Size (C+3) C S Percent Retained 10 99.9 99.9 | | • • | | ND | - | аларанан сайтар Аларанан сайтар | | | 20 |
|--|--|----------------|-----------------|--|----------------|------------------------------------|---------------|----------|--|
| SIEVE ANALYSIS. FC.SOMd No:-1 Formulative Meight and Container Feight of Sample and Container Feight of Sample Size Cumulative Weight Retained Cumulative Size Cumulative Weight Retained Cumulative Size Container Formulative Weight Retained Fercent Retained 10 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | | | | | D | ate | <u>ubc</u> | <u></u> | |
| $F_{C. Sund}$ $F_{No=1}$ $F_{O. 2}$ $F_{O. $ | ample No. | | | | l'es | ted by | NPC | | |
| Veight of Container Yeight of Sample Size Cumulative Weight Retained Size C (C+3) C S Percent Retained Size 10 10 5 949.7 12 32.0 0.6 (3.3) 0.3 0.6.8 0.15 2.2 swing 2.5 Tesesta 1.2 0.3 0.3.3 0.4.8 2.2 Size Tesesta Iax. size: """" Fineness modulus: Max. size: """" Fineness modulus: Max. size: """" 10 10 10 10 12.1 0.15 3.8 Size 1.2 3.8 Procest Teset 10 12.2 Fineness modulus: Max. size: """" 12.3 0.3 0.5 """""""""""""""""""""""""""""""""""" | . SIEVE A | NALYSI | S. | F.C. sand | | | F.Card No2 | | |
| Size (C+3) C S Percent Retained 10 10 10 10 10 10 5 10 10 10 10 10 10 5 10 <td< td=""><td>leight of Con</td><td>itainer</td><td>Container</td><td>·</td><td></td><td> </td><td></td><td></td><td></td></td<> | leight of Con | itainer | Container | · | | | | | |
| 10 10 <td< td=""><td>Sieve Cumula</td><td>tive Weight</td><td>Retained</td><td>Cumulative Palsing</td><td>Sieve</td><td>Cemulativ</td><td>re Weight</td><td>Retained</td><td>Cumulative</td></td<> | Sieve Cumula | tive Weight | Retained | Cumulative Palsing | Sieve | Cemulativ | re Weight | Retained | Cumulative |
| s 99.7 2.5 68.7 1.2 32.0 0.4 (3.3) 0.3 6.8 0.15 2.2 sasing 3.8 Freed 3.8 assing 3.8 sasing 5.2.5 sasing 3.8 sasing 5.8 sasing 5.8 <tr< td=""><td>Size (C+S)</td><td>) C</td><td>S</td><td>Percent -Retained-</td><td>Sise</td><td>(C+3)</td><td>C</td><td>S</td><td>Percent Retaied</td></tr<> | Size (C+S) |) C | S | Percent -Retained- | Sise | (C+3) | C | S | Percent Retaied |
| 2.5 68.7 1.2 32.0 0.6 (3.3) 0.3 6.8 0.15 2.2 axeing 70.1 Forest 3.8 axeing 70.1 0.6 1.2 0.7 70.1 0.8 1.2 0.15 2.2 axeing 70.1 Forest 3.8 Passing 70.1 Fineness modulus: Max. size: ** Fineness modulus. RESULT OF TESTS 40 ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** < | | | · · · · · · · · | | - | | ļ | | • |
| 1.2 0.6 0.7 70.1 0.6 1.3.3 0.6 52.5 0.15 2.2 0.6 0.3 21.5 1.3 0.16 3.8 22.1.5 3.8 assing 70.1 3.8 3.8 22.5 assing 70.1 3.8 3.8 rest 70.1 3.8 3.8 assing 70.1 70.1 3.8 assing 70.1 70.1 3.8 assing 70.1 70.1 70.1 ass. 70.1 70.1 70.1 ass. Fineness modulus : Max. size : " ass. 70.1 70.1 70.1 ass. 70.1 70.1 70.1 ass. 70.1 70.1 70.1 ass. 70.1 70.1 70 | | _ | | | | | | | |
| 0.6 (3.3) 0.6 52.5 0.15 2.2 0.16 3.8 assing 2.2 0.15 3.8 Forsat 7000 7000 3.8 Forsat 7000 7000 7000 Iax. size: """ Fineness modulus: Max. size: """ Fineness modulus: Max. size: """ Fineness modulus. RESULT OF TESTS 1000 70 90 1000 12 23 50 1000 1000 12 23 50 1000 1000 12 12 12 1000 1000 12 12 1000 1000 1000 12 12 1000 1000 1000 12 12 1000 1000 1000 12 12 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000< | | | | | { } | | | | |
| 0.3 0.15 1.5 1.5 1.5 1.5 1.5 1.5 1.5 | | | | | { } | | | | |
| Asing Forat lax, size: "," Fineness modulus: Max, size: "," Fineness modulus. RESULT OF TESTS | | | | | 0.3 | | | | |
| Fineness modulus: Total fax. size: "," Fineness modulus: Max. size: "," Fineness modulus. RESULT OF TESTS | 0,15 | | | 2.2 | | | | | <u> </u> |
| iax. size: ", Fineness modulus: Max. size: ", Fineness modulus. RESULT OF TESTS | assing | | | | | | | | ····· |
| RESULT OF TESTS | | | | | II Tasal I | | 1 · · · | | |
| ometer in 7/2 | L | | Finen | ess modulus: | | size : | | Fine | ness modulus. |
| transformer in 7/2 de la construction de la constru | fax. size : | | | RESULT | Max. OF TE | STS | | | |
| tomp and the second of the sec | lax. size : | | | RESULT | Max. OF TE | STS | | | 00 |
| 40 10 20 0.5 1.9 Diameter in 7/2 | lax. size : | | | RESULT | Max. OF TE | STS | | | 00 |
| 40 10 20 0.5 1.9 Diameter in 7/2 | fax. size : | | | RESULT | Max. OF TE | STS | | | 00 |
| our source of the source of th | lax. size: | | | RESULT | Max. OF TE | STS | | | 00 0 0 0 0 0 0 0 0 0 0 |
| 0.5 1.0 Diameter in 🔭 | Sax. size: | | | RESULT | Max. OF TE | STS | | | Percont Retained 000 |
| 0.5 1.0 Diameter in 🔭 | lax. size: | | | RESULT | Max. OF TE | STS | | | ve Percont Retained |
| 0.5 1.0 Diameter in 🔭 | lax. size: | | | RESULT | Max. OF TE | STS | | | ve Percont Retained |
| | lax. size: | | | RESULT | Max. OF TE | STS | | | Cumulative Percent. Retained |
| | lax. size: | | | RESULT | Max OF TE | STS | | | Cumulative Percent. Retained |
| | lax. size: derved bu | oris | 0.3 | RESULT 0.6 27702 27702 0.5 LA Diamet | Max. OF TE: | STS | | | Cumulative Percent. Retained |
| Before Testing Weight of Sample + Container : Weight of Container : | lax. size: | Q 15 CATION | 0.3 | RESULT | Max. OF TE: | STS | | | Cumulative Percent. Retained |

 Weight of Sample
 :

 After Testing
 Weight of Sample + Container :

 Weight of Container :
 :

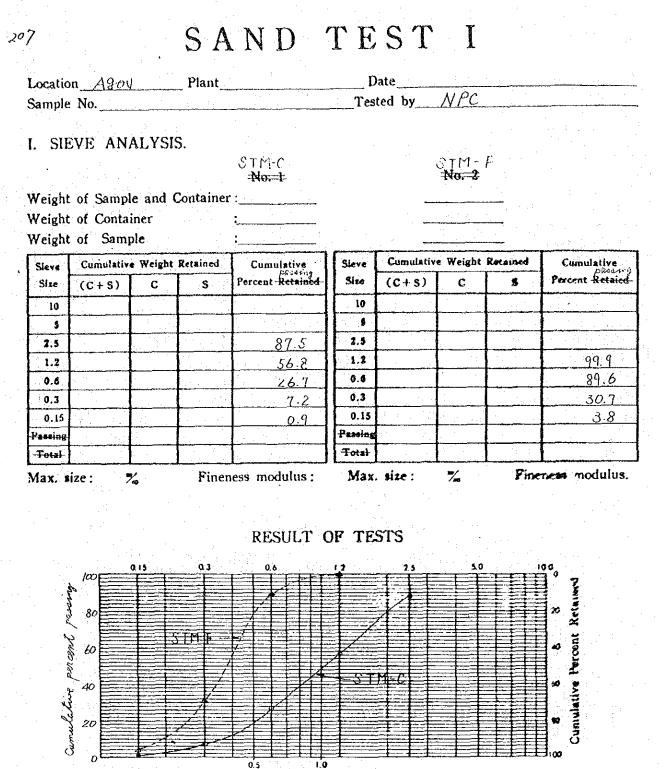
 Weight of Sample
 :

 Decreased Amount
 :

 Percentage
 :

N ,K ,Form #3341

-



Diameter in 🌠

II. DECANTATION TEST

| Before Testing | Weight of Sample + Container : | | | e per l'anna an tha Anna |
|----------------|--------------------------------|---|------|-----------------------------|
| | Weight of Container | | | |
| | Weight of Sample : | | | |
| After Testing | Weight of Sample + Container : | | | |
| | Weight of Container : | · | | |
| | Weight of Sample | | | |
| | Decreased Amount | | | • |
| 1. S. A. A. | Percentage | | • | an a <u>an an a</u> |
| | | | N.K. | Form #3341 |

· · ·

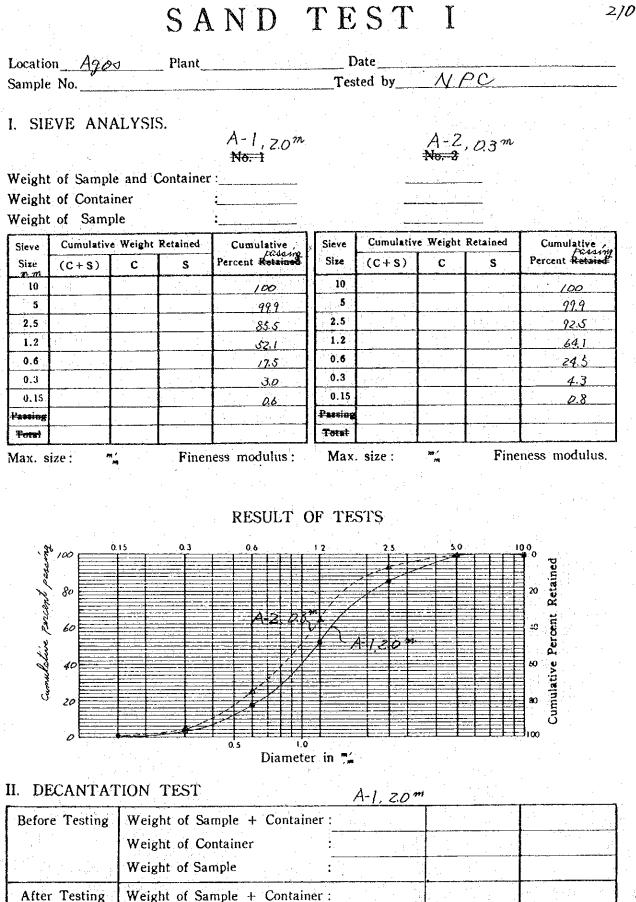
| ocatio | n Age | 00 | Plant | | ľ |)ate | | | | |
|---|-------------------------------------|-------------------------|---------------|---|---|--------------------|----------|---------------|---|----------|
| ample | : No | | | | Tes | ted by | NPC | / | | <u>.</u> |
| 01 | | A ¥ \$201 | , | | | | | · · · · | | |
| . 51E | EVE AN | ALISE | 5. | R-1 | | | B-2 | | | |
| • | | n North Le | ag ta da | B - 1 -No1- | | • . | No3 | • | | |
| - | of Sampl | | ontainei | | | · . | * * | · · · | | - |
| 1 A | of Contai | | | | | · · · · · | · · · | | | : : |
| | of Samp | | Daar I. A | • | ا ر | | | | | 1 |
| Sieve Size | Cumulative (C+S) | e Weight | Ketsined S | Cumulative passing Percent Retained | Sieve | Cumulativ (C+S) | C C | Ketained S | Cumulative. Pasing Percent-Retaid | |
| 10 | (013) | | | | 10 | | | ~ | | |
| 5 | | | | | 5 | | | | | 1 |
| 2.5 | | | | 66.1 | 2.5 | | | | 82.7 | 1. |
| 1.2 | | | | 29.7 | 1.2 | | | | 59.9 | |
| 0.0 | | | | <u> </u> | 0.8 | | | | 26:4 | ſ |
| in the second | | i | <u> </u> | A | a harming | | f | | · · · · · · · · · · · · · · · · · · · | |
| 0.15 | | | | 1.6 | 0.15 | | | | 5.77 | . |
| 0,15 assing Total [ax. s | ize : " | | Piner | 1.6 ness modulus: | Passing Total | size : | ру. А. | Fine | ness modulus. | |
| assing Total | | • • • • • • | • | ness modulus : RESULT | Passing Total Max. | size : STS | | Fine | ness modulus. | |
| lassing Total lax. si | 100 (| Q 15 | Piner 23 | ness modulus: | Passing Total Max. | size : STS | 5.0 | Fine | | |
| Total Total Iax. si | koo | • • • • • • | • | ness modulus : RESULT | Passing Total Max. | size : STS | | Fine | ness modulus. | |
| lax. s | 80 | • • • • • • | • | ness modulus : RESULT | Passing Total Max. | size : STS | | Fine | ness moduius. | |
| lax. s | 80 | • • • • • • | • | ness modulus : RESULT | Passing Total Max. | size : STS | | Fine | ness modulus. | |
| lax. si | 80 | • • • • • • | • | ness modulus : RESULT | Passing Total Max. | size : STS | | Fine | ness moduius. | |
| lax. si | 80 | • • • • • • | • | ness modulus : RESULT | Passing Total Max. | size : STS | | Fine | ness moduius. | |
| lax. s | 80 | • • • • • • | • | ness modulus : RESULT | Passing Total Max. | size : STS | | Fine | ness moduius. | |
| lax. si | 100 80 60 | • • • • • • | • | ness modulus : RESULT | Passing Totat Max. OF TE: | size : STS | | Fine | ness modulus. | |
| lax. si | 100 80 60 40 20 | • • • • • • | • | ness modulus : RESULT | Passing Totat Max. OF TE: | size : STS | | Fine | ness modulus. | |
| assing Total [ax. s] | 100 80 60 40 20 | 0.15 | | ness modulus : RESULT | Passing Totat Max. OF TE: | size : STS | | Fine | ness modulus. | |
| Total Total [ax. s] | 100 80 60 40 20 | ο 15 | 23 TTEST | ness modulus : RESULT | Passing Fotat Max. OF TE: 12 2 2 2 2 2 2 2 2 2 2 2 2 2 | size : STS | | Fine | ness modulus. | |
| Total Tax. si | 100 80 60 20 0 CANTA | α15 ΓΙΟΝ Weig | 23 TTEST | ness modulus : RESULT 0.0 B-1 B-1 0.5 Diamete | Passing Fotat Max. OF TE: 12 2 2 2 2 2 2 2 2 2 2 2 2 2 | size : STS | | Fine | ness moduius. | |

•

| | Weight of Container : Weight of Sample : | | | |
|---------------|---|------|------------|---|
| After Testing | Weight of Sample + Container : | | | |
| | Weight of Container : : | | | |
| | Weight of Sample : | | | |
| | Decreased Amount Percentage | | | |
| | | N,K. | Form £3341 | - |

. . . . ,

| Location Ago | Plant_ | ······ | I | Date | | · · · · · · · · · · · · · · · · · · · | |
|--|--|--|------------|---------------|----------------|---|---|
| Sample No. | | • | Tes | ate ted_by | <u>N</u> | PC. | |
| | | | | | | : | |
| I. SIEVE ANA | ALYSIS. | ۸ i _ ۸ | | | A } | A h | |
| | • • | A-1,0.3" | • | | A-1. | LO. | |
| Weight of Sample | e and Containe | r: | | | | | |
| Weight of Contai | £ | • · · · · · · · · · · · · · · · · · · · | | | | | - - |
| Weight of Samp | le | · • | | 4 - A | | <u> </u> | alah sebagai karang s Sebagai karang sebagai |
| Sieve Cumulative | Weight Retained | Cumulative | Sieve | Cumulativ | e Weight | Retained | Cumulative |
| Size $(C+S)$ | C S | Percent Britained | Size | (C+S) | C | S | Percent Retain |
| 10 | | | 10 | | | | 100 |
| 5 | | 100 | 5 | | | - | 99.6 |
| 2.5 | | 81.3 | 2.5 | | | | 76.7 |
| 1.2 0.6 | | 45.3 | 0.6 | | | i | 25.3 |
| 0.3 | | 13.4 | 0.8 | | 1 | | 7.8 |
| 0.15 | | 0.4 | 0.15 | | | | 0.3 |
| Passing | | | Passing | | | · · · · · · · · · · · · · · · · · · · | |
| - Tota l | I | | -Totat | [| | | |
| Max. size : 🦷 | Finer | ness modulus : | Max. | size : | 200 ° 170 - | Fine | ness modulus |
| 100 | | 0.6 | 12 | 5TS 2.5 | 50 | 1 | |
| Cumulative Recent Pore | | | | | 5.0 | Image: Section of the sectio | ercent Retained |
| umulitur kacart par | | | | | | Image: section of the sectio | ative Percent Retained |
| Cumbler Recent Pour | | | m / / { | | | Image: section of the sectio | Cumulative Percent Retained |
| Cumbler Recent Pour | | | m / / { | | | | Cumulative Percent Retained |
| t ver for boom of the second to the second t | ION TEST | a.s i.0 Diameter | n ** | | | Image: Section 1.1 Image: | Cumulative Percent Retained |
| 0 Cameliture Recent Pore | ION TEST Weight of Sar | as 1.0 Diameter | n ** | | | | Cumulative Percent Retained |
| t ver for boom of the second to the second t | YON TEST Weight of Sau Weight of Co | as 1.0 Diameter mple + Contain ntainer | n ** | | | | Cumulative Percent Retained |
| II. DECANTAT Before Testing | YON TEST Weight of Sau Weight of Sau Weight of Sau | a, s Diameter mple + Contain ntainer nple | er : | | | Image: Section 1 Image: Section 2 Image: Section 2< | Cumulative Percent Retained |
| t ver for boom of the second to the second t | TION TEST Weight of Sau Weight of Sau Weight of Sau Weight of Sau | mple + Contain ntainer nple + Contain | er : | | | | Cumulative Percent Retained |
| II. DECANTAT Before Testing | TION TEST Weight of San Weight of San Weight of San Weight of San Weight of San | mple + Contain ntainer nple + Contain ntainer | er : | | | | Cumulative Percent Retained |
| II. DECANTAT Before Testing | TION TEST Weight of Sau Weight of Sau Weight of Sau Weight of Sau | mple + Contain ntainer nple + Contain ntainer | er : | | | Image: Section of the sectio | Cumulative Percent Retained |



Weight of Container: Weight of Sample

Decreased Amount

Percentage

3.8 %

N.K.Form #3341

SAND TEST I 211 Location Agos Plant ____ Date___ Tested by NPC Sample No. I. SIEVE ANALYSIS. F-2, 1.0 m No. 2 A-Z. 1.0^m No.-1 Weight of Sample and Container : Weight of Container Weight of Sample Cumulative Weight Retained Cumulative Cumulative Weight Retained Sieve Cumulative / Sieve Percent Retaied Percent Retained Size. (C+S)C S Size m m (C+S)С S m m 10 100 10 5 5 100 99.9 2.5 2.5 19.7 90.3 1.2 1.2 45.0 63.1 0.6 0.6 16:0 28.Z 0.3 0.3 5.7 4.8 0.15 0.15 1.6 0.7 Passing Passing Total= Total)n≓ 211 Fineness modulus. Fineness modulus: Max. size : Max. size : **RESULT OF TESTS** ò i ś 03 Percent Retained 80 percent 10 Cumulative 40 20 D 10 0.5 Diameter in 🌿 **II. DECANTATION TEST** A-2, 1.0 m ,100 Before Testing Weight of Sample + Container : Weight of Container Weight of Sample After Testing Weight of Sample + Container : Weight of Container : Weight of Sample Decreased Amount 4.2% 4.6% Percentage 4.1 . FZ

| | 1. 1. | | 1. S. | | | | | | 1 A. | |
|---------------|----------------------------|---|--|---|--|---|--|--|-----------------------------|--------------|
| ocatio | on_ <u>Ago</u> | 0 | _ Plant_ | | D | ate ted by | N P | <u>^</u> | | <u>.</u> |
| ample | e No | | · · · · · · · · · · · · · · · · · · · | | 1 es | teu by | / // | <u>V</u> | | - |
| SU | EVE AN | ALYSI | S. | · · · · · · · · · | | | | ada a sa | | |
| | | | | F-3, SURFAC | Æ | | F-4 No. 2 | 1.0 m | | |
| | | | n i da da 1. datema | Nort | 1. j. | · · · | No. 2 | an the second se | | |
| - N | | | Container | • • • • • • • • • • • • • • • • • • • | | | | | | and a Ada |
| . – | t of Contai t of Samp | 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - | | • | · · · | in an | | | | : |
| Sieve | Cumulative | | Retained | Cumulative | Sieve | Cumulativ | e Weight | Retained | Cumulative , | 1 |
| Sieve | (C+S) | C | s | Percent Retained | Size | (C+S) | c | s | Percent Retaied | |
| m m 10 | | | | | <u>m m</u> 10 | | | | 100 | 1 |
| 5 | | | | 100 | 5 | | | | 99.9 | |
| 2.5 | | | | 84.9 | 2.5 | | | | 79.8 | |
| 1.2 | | | | 57.9 | 1.2 | | | | 32.7 | |
| 0.6 | <u> </u> | | | 33.1 | 0.6 | | | | 7.0 | |
| 0.3 | | <u>.</u> | | 15.0 3.6 | 0.3 | · · · · · · · · · · · · · · · · · · · | <u> </u> | | 1.3 0.5 | |
| assing | | | | 0.8 | Passing | | | | 0.0 | 1 ° |
| Petal | | | | | | | *** | f | · · · · · · · · · · · · · | - |
| lax. s | size: " | | Finer | ness modulus : RESULT (| | size : STS |)读 / . /活 | Fine | ness modulus. |] |
| | | .15 | Finer | RESULT (| Max. | STS | | | | |
| | | | | | Max. | STS | | | 00 | |
| | | | | RESULT (| Max. | STS | | | 00 90 90 | |
| | 100 100 80 | | | RESULT (| Max. | STS | | | να Retained οθο | |
| | 100 100 80 | | | RESULT (| Max. | STS | | | 00 90 90 | |
| | Percent Parting | | | RESULT (| Max. | STS | | | Percent Retained | |
| | Percent Parting | | | RESULT (| Max. | STS | | | να Retained οθο | |
| | Percent Parting | | | RESULT (| Max. | STS | | | ative Percent Retained | |
| | Cumulative Percent Passure | | | RESULT (| Max. | STS | | | lative Percent Retained 000 | |
| | Percent Parting | | | RESULT (| Max. | STS | | | ative Percent Retained | |
| | Camelettive Percent parame | | 0.3 | RESULT (| Max. | STS | | | ative Percent Retained | |
| | Cumulative Percent Passure | | 0.3 | RESULT (| Max. | STS | 5.0 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 | | ative Percent Retained | |
| DI | Camelettive Percent parame | | o.3 | RESULT (| Max. DF TE: | 5TS | 5.0 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 | | ative Percent Retained | |
| . DI | ECANTA | ΓION Weig | o.3 TEST tht of Sa | RESULT (0.6 0.6 0.5 0.5 0.5 0.6 0.5 0.6 0.6 0.6 0.6 0.6 0.6 0.6 0.6 | Max. DF TE: | 5TS | 5.0 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 | | ative Percent Retained | |
| . DI | ECANTA | ΓION Weig Weig | o.3 | RESULT (| Max. DF TE: | 5TS | 5.0 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 | | ative Percent Retained | |
| . DI Befor | ECANTA | ΓION Weig Weig Weig Weig | 0.3 TEST tht of Sa tht of Co tht of Sat | RESULT (| Max. DF TEX 12 | 5TS | 5.0 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 | | ative Percent Retained | |
| . DI Befor | e Testing | ΓION Weig Weig Weig Weig | 0.3 TEST tht of Sa tht of Co tht of Sat | RESULT (| Max. DF TEX 12 | 5TS | 5.0 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 | | ative Percent Retained | |
| . DI Befor | e Testing | TION Weig Weig Weig Weig | o.3 TEST tht of Sa tht of Co tht of San tht of San | RESULT (0.6 0.6 0.5 0.5 0.5 0.5 0 0 0 0 0 0 0 0 0 0 0 0 0 | Max. DF TEX 12 | 5TS | 5.0 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 | | ative Percent Retained | |
| DI | e Testing | TION Weig Weig Weig Weig | o.3 TEST tht of Sa tht of San tht of San tht of San tht of San | RESULT (0.6 0.6 0.5 0.5 0.5 0.5 0 0 0 0 0 0 0 0 0 0 0 0 0 | Max. DF TEX 12 | 5TS | 5.0 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 | | ative Percent Retained | |

N.K.Form #3341

•

| oration | 201 | 2-1 | Plant | | · r | Date | 1997 - 1997 1997 - 1997 1997 - 1997 - 1997 | | |
|--|--|-----------------------|--|---|----------------------------------|-----------------|--|---------------------------------------|---|
| Sample | <u></u> No. | <u> </u> | 1 ianu | | Tes | ted by | NPO | > | |
| | | | | | | | | | |
| . SIEV | VE AN | ALYSI | S. | | | | tan sa | | |
| | | | · . | F-4. 2.0 ^m No. 1 | | | F-4 No-8 | 3.0 m | |
| Valaht | of Sama | la and (| Containe | TNO. I | • | | 1107 0 | · . · · | |
| | of Conta | | Micanic | | | | | | |
| | of Sam | and the second second | · · · | | | | | | n in 1945. Na Shati tha |
| | Cumulativ | | Retained | Cumulative, | Sieve | Cumulativ | e Weight | Retained | Cumulative |
| Size | (C+S) | l c | s | Percent Retained | Size | (C+S) | с | s | Percent Retain |
| 7n m 10 | | | | 100 | 10 | | | | 100 |
| 5 | | | | 97.9 | 5 | | | | 19.5 |
| 2.5 | <u></u> | | | 76.8 | 2.5 | | · | | 78.6 |
| 1.2 | · · · | ļ | | 36.8 | 1.2 | | <u> </u> | · · · · · · · · · · · · · · · · · · · | 41.8 |
| 0.6 | · · · · · · · · · · · · · · · · · · · | | | | 0.6 | | | } | 11.4 |
| U.S. 6 | | ¥ . | | 3.2 | | | | | 1.9 |
| | ter and the second s Second second | <u> </u> | <u> </u> | | 0.15 | | | | 07 |
| 0.15 | | | | /.3 | 0.15 Passieg | | | | 0.7 |
| 0.15 Passing Potat | · · · · · · · · · · · · · · · · · · · | | Fine | /.3 | Passing Total Max | . size : | 39° - 791 | Fine | |
| 0.15 Pateing | · · · · · · · · · · · · · · · · · · · | | · · · · · · · · · · · · · · · · · · · | A 3 | Passing Total Max | . size : STS | | | eness modulus |
| 0.15 Pataing Potal Aax. siz | /e: //// | 0.15 | Fine | /.3 | Passing Total Max | . size : STS | | | eness modulus |
| 0.15 Pataing Potat 1ax. siz | /e: //// | | · · · · · · · · · · · · · · · · · · · | A 3 | Passing Total Max | . size : STS | | | eness modulus |
| 0.15 Pateing Potat 1ax. siz | /oo 80 | | · · · · · · · · · · · · · · · · · · · | A 3 | Passing Total Max | . size : STS | | | eness modulus |
| 0.15 Pateing Potat 1ax. siz | /oo 80 | | · · · · · · · · · · · · · · · · · · · | A 3 | Passing Total Max | . size : STS | 5.0 | | eness modulus |
| 0.15 Passing Potat Aax. siz | /eo 80 60 | | · · · · · · · · · · · · · · · · · · · | A 3 | Passing Total Max | . size : STS | 5.0 | | eness modulus |
| 0.15 Passing Potat Aax. siz | /eo 80 60 | | · · · · · · · · · · · · · · · · · · · | A 3 | Passing Total Max | . size : STS | 5.0 | | eness modulus |
| 0.15 Presing Potat 1ax. siz | /eo 80 60 | | · · · · · · · · · · · · · · · · · · · | A 3 | Passing Total Max | . size : STS | 5.0 | | eness modulus |
| 0.15 Total Total Iax. siz | /eo 80 60 | | · · · · · · · · · · · · · · · · · · · | A 3 | Passing Total Max | . size : STS | 5.0 | | eness modulus o o betained Cumus Cumus C |
| 0.15 Passing Potat Aax. siz | /eo 80 60 | | · · · · · · · · · · · · · · · · · · · | A-3 ness modulus : RESULT (0.6 0.6 0.6 0.6 0.6 0.6 0.6 0.6 | Passisg Total Max)F TE | . size : STS | 5.0 | | eness modulus |
| 0.15 Paring Potat Aax. siz | 20 : 20 : | | 0.3 | A.3 ness modulus : RESULT (| Passing Total Max DF TE | size : STS | 5.0 | | eness modulus eness modulus o o o o o o o o o o o o o |
| 0.15 Paring Potat Aax. siz | 20 : 20 : 20 : 20 : 20 : 0 : CANTA | o 15 | o 3 | A-3 ness modulus : RESULT (0.6 0.6 0.6 0.6 0.6 | Passing Total Max DF TE | . size : STS | 5.0 | | eness modulus o o beter conunce Cumus Cumus |
| 0.15 Passing Fotat Max. siz | 20 : 20 : | o 15 | o3 TEST | Ample + Contair | Passing Total Max DF TE | size : STS | 5.0 | | eness modulus eness modulus o o o o o o o o o o o o o |
| 0.15 Patting Patat 1ax. siz funor | 20 : 20 : 20 : 20 : 20 : 0 : CANTA | o 15 | o 3 TEST tht of Se tht of Co | Ample + Contair ontainer | Passing Total Max DF TE | size : STS | 5.0 | | eness modulus eness modulus o o o o o o o o o o o o o |
| 0.15 Passing Porat Aax. siz on on on on on on on on on on | 20 : 20 : 20 : 20 : 20 : 0 : CANTA | o 15 | o 3 TEST ght of Se ght of Co ght of Sa | Ample + Contair ontainer | Passisg Total Max)F TE | size : STS | 5.0 | | eness modulus o o o o o o o o o o o o o |

Percentage

3.0%

، آباری ۲۰۰۱ میں میں ا

**

4.Z

.

~

E

SAND TEST I

| Locatio | on Agox | د | Plant | and the second second | Ľ | Date | | · · · · · · · · · · · · · · · · · · · | |
|-------------|------------------|----------|---------------------------------------|-----------------------|---------|-------------------------------------|--|---------------------------------------|-----------------------|
| Sample | No. | | | | Tes | ate ted_by | NP | 0 | |
| • | | | · · · · · · · · · · · · · · · · · · · | | | | · . | | |
| L SH | EVE AN | ALYSI | S. · | | | | | | |
| | | | | F-5, 2.0** | | | F-5 No2 | 4.0 m | |
| • | ta ay t | | | No.1 | | · · | No2 | | |
| Weight | t of Sampl | e and C | Container | · · | | _ | | | |
| Weight | t of Contai | iner | | · | | · · · | · . | <u>a.</u> 114 a. | |
| Weight | t of Sam | ole | | • | | · · · · · · | · · · · · · · · · · · · · · · · · · · | | |
| Sieve | Cumulative | e Weight | Retained | Cumulative, | Sieve | Cumulativ | e Weight | Retained | Cumulative 4 |
| Size | (C+S) | c | S | Percent Retained | Size | (C+S) | с | S | Percent Retained |
| m m 10 | | | | 100 | 10 | | | | |
| 5 | | | | 99.8 | 5 | | ······································ |] | 100 |
| 2.5 | | | | 714 | 2.5 | | | | 806 |
| 1.2 | | | | ડરે.ઝે | 1.2 | 1 | | | 33.7 |
| 0.6 | | | | 8.5 | 0.6 | | | | 8.7 |
| 0.3 | | | | 18 | 0.3 | | | | 2.1 |
| 0.15 | | | | 0.5 | 0.15 | | | | 0.7 |
| Fassing | | | | | Passing | | | | and the second second |
| Total | | | | | Totat | | | | |
| Max. s | ize : | - | Finen | ess modulus : | Max | . size : | 来・ 7月 | Fine | ness modulus. |
| | | | | | ÷ . | · · · · | | | · |
| : : | | · . | · · | | | | i. | | |
| | | | • | RESULT (| OF TE | STS | n a star a st | | |
| | | | | | | | | | |
| anter trant | 6/00 | 0.15 | 0.3 | 0.6 | 12 | 2.5 | 5.0 | | 0 0 0 |
| | | | | | | | | | Retained |
| à | < m | | | | | X | | | |
| Yes | | | | C S AN | m | 1 | | | |
| | 60 | 1 | | | ÷Υ | ſ`₽₿ | 201 | | 40 b |
| 9 | | | | | 1 | | | | P. |
| N. | 40 | | | | X | | | | ti (|
| | zo | | | | | | | | 90 u |
| Ċ | | | | | | | | | Cumulative P |
| at an | <i>₀</i> <u></u> | k | | | | | | | 100 |
| | | | · . | os 1.0 Diamete | er in 📬 | | | en en sere | |
| | | | | | | | · · | e en és | |
| II. DI | ECANTA | LION | TEST | | | 1997) 1997 - 1997 1997 - 1997 | | | F-5 4.0 m |

N.K.Form #3341

214

| 1.1.1. | λ Λ. | | Di | | n |)ata | | | |
|---|--|---|---|---|--------------|-----------------------|--|-------|---|
| ocatio ample | n <u>490</u> No. | 1 | _ Plant_ | | Tes | ted by | NPC | | · |
| | | | | | | · · · | ÷ . | | |
| . SIE | EVE AN | ALYSIS | 5. | • | · | · · . | 51 | tom | · · · |
| | ·. · . | | | D-1, 3.0 ^m No: 1 | | | D-1 No: 2 | 3.0 m | |
| Veight | of Samp | le and C | Container | •: • | | | · · · · · · · · · · · · · · · · · · · | | |
| - 11 - 12 - 13 - 13 - 13 - 13 - 13 - 13 | of Conta | | • | • | : . · | | • • | | n de la composition d La composition de la c |
| Veight | of Sam | ple | | • | | | | | |
| Sieve | Cumulativ | Y | | Cumulative Pessing Percent Retained | Sieve | Cumulativ | | | Cumulative Passing Percent Retained |
| Size M m | (C+S) | С | S | | Size | (C+S) | C | S | rercent A stated |
| 10 5 | | | | 100 99.5 | 10 5 | | | | 100 |
| 2.5 | | | | 87.9 | 2.5 | | | | 87.6 |
| 1.2 | | | | 69.5 | 1.2 | | | | 7/ 9 |
| 0.6 | | | | <u>43.0</u> 12.5 | 0.6 | | | | <u>55.9</u> 31.1 |
| 0.5 | | | | 12.5 2.4 | 0.15 | | | | 7.3 |
| Passing | <u>.</u> | | | | Passing | | . " | | |
| Total | and the second | | | 1 1 1 1 1 1 1 1 | Total | | 8 B. | t - | |
| (ax. si | | n' 19 | | ess modulus : RESULT (| Max OF TE | | x* , , , , , , , , , , , , , , , , , , , | | ness modulus. |
| fax. si | 100 80 | 0.15 | Finen | | Max | | * <u></u> 50 | | $\frac{\alpha}{\alpha}$ |
| fax. si | 100 80 | | | RESULT (| Max OF TE | STS | | | ço 10 - 7 |
| fax. si | 100 80 | | | RESULT (| Max OF TE | STS | | | α |
| fax. si | 100 80 60 40 | | | RESULT (| Max OF TE | STS | | | α |
| fax. si | 80 80 | | | RESULT (| Max OF TE | STS | | | Percent Retained |
| fax. si | 100 80 60 40 | | | | Max DF TE | STS | | | α |
| fax. si | 100 80 60 40 20 | | | | Max DF TE | STS | | | α |
| fax. si | 100 80 60 40 20 | 0.15 | | | Max DF TE | STS | | | α |
| l. DE | 5/00 80 60 40 70 70 70 70 70 70 70 70 70 70 70 70 70 | 0.15 | a3 D= | | Max DF TE | 2.5 2.5 3.0 200 | | | α |
| l. DE | 100 80 60 40 80 80 80 80 80 80 80 80 80 80 80 80 80 | 0.15 | a3 D= | RESULT (| Max DF TE | 2.5 2.5 3.0 200 | | | α |
| l. DE | 5/00 80 60 40 70 70 70 70 70 70 70 70 70 70 70 70 70 | 0.15 TION Weig Weig | 0.3 D= TEST ht of Sa | RESULT (| Max DF TE | 2.5 2.5 3.0 200 | | | α |
| I. DE | 20 CCANTA e Testing | 0.15 TION Weig Weig Weig | 0.3 TEST ht of Sa ht of Co ht of San | RESULT (| Max DF TE | 2.5 2.5 3.0 200 | | | α |
| I. DE | 5/00 80 60 40 70 70 70 70 70 70 70 70 70 70 70 70 70 | 0.15 TION Weig Weig Weig Weig | 0.3 D D TEST ht of Sa ht of Sa ht of Sa | RESULT (| Max DF TE | 2.5 2.5 3.0 200 | | | α |
| I. DE | 20 CCANTA e Testing | 015 TION Weig Weig Weig Weig Weig | 0.3 D2- D2- D2- D2- D2- D2- D2- D2- D2- D2- | RESULT (| Max DF TE | 2.5 2.5 3.0 200 | | | α |
| fax. si | 20 CCANTA e Testing | 015 TION Weig Weig Weig Weig Weig | 0.3 D= D= TEST ht of Sa ht of Sa ht of Sa ht of Sa ht of Sa | RESULT (| Max DF TE | 2.5 2.5 3.0 200 | | | α |

| 2/7 | SA | ND | ΤE | ST | I | | |
|--|---------------|--|-------|----------|--|---------------------------------------|-----------------|
| Location Agov | Plant_ | | · |)ate | | · · · · · · · · · · · · · · · · · · · | |
| Sample No | | | Tes | ted by | NPO | Q | |
| I. SIEVE ANALY | 'SIS. | D-2.1.0 ^m No-1 | | | D-2, No3 | 3.0 m | |
| Weight of Sample an Weight of Container Weight of Sample | nd Containe | ۲ ــــــــــــــــــــــــــــــــــــ | | | · | | |
| Sieve Cumulative We | ight Retained | Cumulative . | Sieve | Cumulati | ve Weight | Retained | Cumulative ' |
| Size $(C+S)$ (| s s | Percent Retainet | Size | (C+S) | С | S | Percent Retaied |
| 10 | | | 10 | 1 | T | | 100 |
| S S S S S S S S S | | 100 | 5 | | | | 99.9 |

0.15 0.15 8.z 97 Passin Fassing Tytat Total

2.5

1.2

0.6

0.3

ж. "ж. Fineness modulus : Max. size : Fineness modulus. Max. size: *,

00

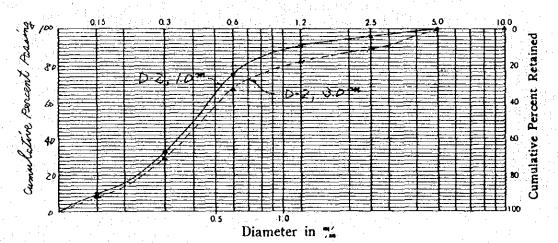
95.3

90.8

75.1

32.4

RESULT OF TESTS



| Before Testing | Weight of Sample + Container : | | |
|----------------|--------------------------------|--|------|
| | Weight of Container : | | |
| | Weight of Sample : | | |
| After Testing | Weight of Sample + Container : | | |
| | Weight of Container : : | | |
| | Weight of Sample : | | |
| | Decreased Amount | | |
| | Percentage | | 8.6% |

88.6

82.4

66.9

28.8

217

2.5

1.2

0.6

0.3

| | SA | ND | Т | ЕSЛ | | | |
|---------------|-------|----|---|------------|-------|--------------------------|---------|
| Location Agos | Plant | | | Date | : | | |
| Sample No | | | | Tested by_ | NPC | ** * ***** | · · |

I. SIEVE ANALYSIS.

5.0

D-3, 1.0m No.-*

Weight of Sample and Container :_____ Weight of Container :_____ Weight of Sample :_____

| Sieve | Cumulativ | e Weight | Retained | Cumulative passing | . [; s |
|--------------|---|----------|----------|-----------------------|---------|
| Size | (C+S) | С | S | Percent Retained | 7 |
| 10 | | | | 100 | |
| 5 | | | | 99.5 | |
| 2.5 | | | | 96.9 | |
| 1.2 | | | | 9z.3 | |
| 0.6 | | | | 74.0 | |
| 0.3 | | | | 38.1 | |
| 0.15 | | | | 11.7 | |
| Passing | | | | | 1 |
| Futal | 1. A. | | | | 3 |

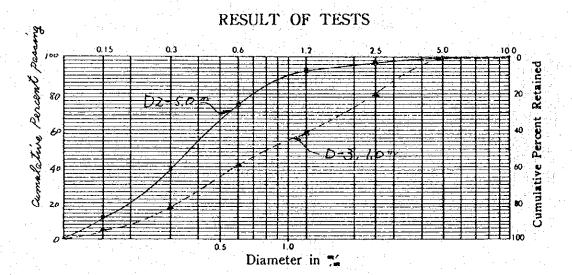
| Sieve | Cumulativ | e Weight | Cumulative | |
|---------|-----------|----------|------------|-----------------|
| Size | (C+S) | С | S | Percent Retated |
| 10 | | | | 99.6 |
| 5 | | | | 99.4 |
| 2.5 | | | | 79.1 |
| 1.2 | | | | 58.6 |
| 0.6 | | 1 | | 40.5 |
| 0.3 | | | | /7.3 |
| 0.15 | | | | J.Z |
| Facalng | | | | |
| Total | | | | |

Max. size :

Fineness modulus :

Max. size :

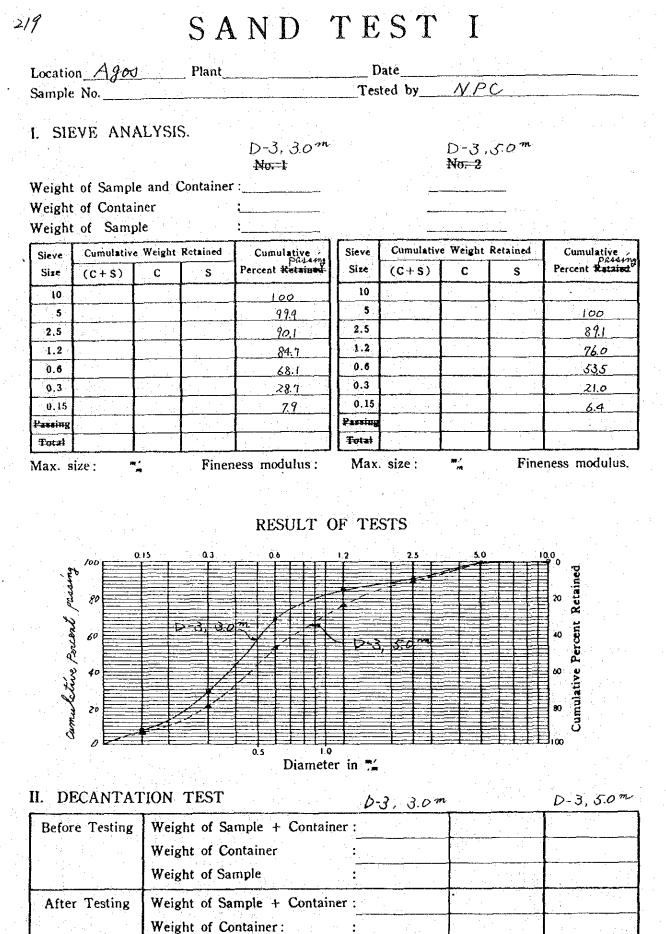
Fineness modulus.



II. DECANTATION TEST

D-2;50m

| Before Testing | Weight of Sample + Container | • | | |
|--|------------------------------|-------|---|---|
| | Weight of Container | | | |
| | Weight of Sample | | | |
| After Testing | Weight of Sample + Container | | | |
| | Weight of Container: | | | |
| | Weight of Sample | | | |
| Annah ²⁷ alian alian da and a ¹ 14 aliand lana a si an andara a si ana ang | Decreased Amount | | | • |
| e e serve e e élécere | Percentage | 17.8% | • | • |



Weight of Sample : Decreased Amount Percentage 8.8 % 5.4 %

N.K.Form #3341

| | in Jan | 1 | Dlast | | 'n | lata | | • | |
|--|--------------|--------------|----------|---------------------------------------|--------------------------|---------------|---|-----------|----------------------|
| mnla | n <u>79</u> | <u>N</u> | _ Plant | | ע פאיד | ate ted_by | NP | <u>5</u> | |
| ampic | | | | · · · · · · · · · · · · · · · · · · · | | (tu 0) | | | |
| 8 1 | EVE AN | | | D-4, 1.0 ²⁴ | r. | | D-4 No:2 | .3.0 M | |
| leight | of Conta | iner | | L | | . | | · · · · · | |
| /eight | of Sam | ple | | • | · | | | <u>.</u> | |
| Sleve | Cumulativ | e Weight | Retained | Cumulative / | Sieve | Cumulativ | e Weight | Retained | Cumulative Parime |
| Size m at | (C+S) | C | S | Pasany Percent Retained | Size | (C+S) | С | S | Percent Retaind |
| 10 | | | | 100 | 10 | | | | 100 |
| 5 | | | | 99.9 | 5 | | | 1 | <u>99.9</u> |
| 2.5 | | 71 (199) | ļ | 67.9 | 2.5 | · · · · | ; · · | | 76.8 |
| 1.2 | | | | 43.8 | 1.2 | · | | : : | 59.1 |
| 0.6 | | | | 31.1 | 0.8 | | | | 49.0 |
| | | | | 12.4 | U. V. J | | 1. S. | | 13.9 |
| - 0.15 | | | 5. S. S. | | 0.15 | · · · · | | - | |
| 0.15 | | | 5 | 2.8 | 0.15 | | | 1 | 3.2 |
| assing Potel | ize · | | Finen | 2.8 | Passing Total | size - | ** | Fine | <u>კ.</u> 2 |
| 0.15 'assing Totat fax. s | ize : | | Finen | | Parsing Toret Max. | size : STS | | Fine | |
| Totel Totel | | 0.15 | Finen | 2.8 ess modulus : | Parsing Toret Max. | • • • | \$.0 | | J.Z ness modulus. |
| Totat Forat Iax. si | ¢ ∕∞ | A | | 2.8 ess modulus : RESULT (| Parsing Totet Max. | STS | | | 3.2 ness modulus. |
| Totel Totel | ¢ ∕∞ | A | | 2.8 ess modulus : RESULT (| Parsing Totet Max. | STS | | | 3.2 ness modulus. |
| Total Total | o / oo 80 | A | | 2.8 ess modulus : RESULT (| Parsing Totet Max. | STS | | | J.Z ness modulus. |
| Total Total | o / oo 80 | A | | 2.8 ess modulus : RESULT (| Parsing Totet Max. | STS | | | 3.2 ness modulus. |
| Total Total | o / oo 80 | A | | 2.8 ess modulus : RESULT (| Parsing Totet Max. | STS | | | J.Z ness modulus. |
| Total Total Iax. s | o / oo 80 | A | | 2.8 ess modulus : RESULT (| Parsing Totet Max. | STS | | | J.Z ness modulus. |
| Total Total | o / oo 80 | A | | 2.8 ess modulus : RESULT (| Parsing Totet Max. | STS | | | J.Z ness modulus. |

۰.

 $\mathcal{M}(\mathcal{A})$

| Before Testing | Weight of Sample + Container | • | | |
|----------------|--------------------------------|---|---|-------|
| | Weight of Container | | | |
| | Weight of Sample | | | |
| After Testing | Weight of Sample + Container : | • | | |
| | Weight of Container: | | | |
| | Weight of Sample | | | |
| | Decreased Amount | | | |
| | Percentage | | • | 6.8 % |

÷ 1.

| Location_ <u>Agos</u> | Plant | | D | ate | N/ P | <u> </u> | |
|---|--|---|---------------|--|--|-------------|---------------------------------------|
| sample No | · . | <u> </u> | 1 es | tea by | <u>_/\ _ </u> | | · · · · · · · · · · · · · · · · · · · |
| SIEVE ANA | 212VI | | | | | | |
| , SIEVE AND | 1.1.1.01.0. | D-4 5.0m | • | . * | D-5. | 1.0 m | |
| | | D-4, 5.0 ^m No. 1 | | | No. 3 | | · · · · |
| Weight of Sample | e and Contain | er : | | · · · · · · · · | | · | · · |
| Weight of Contai | ner | • | | | · · · · · | | |
| Weight of Samp | le | · • • • • • • • • • • • • • • • • • • • | | · · · · · | | | |
| Sieve Cumulative | Weight Retained | Cumulative, | Sieve | Cumulative | e Weight | Retained | Cumulative |
| Size (C+S) | C S | Cumulative, Pittomg Percent Retained | Size | (C+S) | C i | S | Percent Retaied |
| 10 | | | 10 | · · · · · | | | 99.3 |
| 5 | | 100 | 5 | | | | 96.2 |
| 2.5 | | <u>86.</u> 2 | 2.5 | | | | 78.6 |
| 1.2 | | 73.8 | 1.2 | · · · · · | | · · · · | 53.7 |
| 0.6 | | 60.7 | 0.6 | | 2 | · · · · · · | 35.Z |
| 0.3 | | 266 | 0.15 | | · . · · · · · · · · · · · · · · · · · · | | <u>143</u> 0.9 |
| Passing | | 0.1 | Passing | | | | 0.7 |
| Toret | | | Total | | 1 | | |
| Max. size : ", | Fin | eness modulus : | Max | . size : | in: | Fine | eness modulus. |
| | | RESULT C |)F TE | STS | | | |
| gr /20 |).15 0.3 | RESULT (|)F TE | STS | 5.0 | | |
| so sol | | 0.8 | · . | en e | 5.0 | | tained 0 0 000 |
| & pareng | 215 0.3 | 0.8 | · . | en e | 5.0 | | Retained |
| × ==== | | 0.8 | · . | en e | 5.0 | | Retained |
| percent | | 0.8 | · . | en e | 5.0 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 | | Retained |
| parcent | | 0.8 | · . | en e | 5.0 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 | | Retained |
| tive percent | | 0.8 | · . | en e | 5.0 | | Retained |
| tive percent | | 0.8 | · . | en e | | | Percent Retained |
| ative porcent | | | · . | en e | 5.0 2 2 7.0 7.0 7.0 | | Retained |
| Cumulative porcent | | 0.8 | | en e | 5.0 | | Cumulative Percent Retained |
| Cumulative Porcent | | 0.8 Scorm 0.5 0.5 0.5 | | en e | | | Cumulative Percent Retained |
| Cumulative Porcent | D-4 | 0.8 Scorm 0.5 0.5 0.5 | 12 | en e | | | Cumulative Percent Retained |
| L. DECANTA | D-4 | 0.8 Scorrent of the second sec | 12 | en e | 5.0 | | Cumulative Percent Retained |
| L DECANTA | TION TEST Weight of S | 0.8 Schementer 0.5 0.5 Diameter Sample + Contair Container | 12 | en e | | | Cumulative Percent Retained |
| L. DECANTA | FION TEST Weight of S Weight of S Weight of S | 0.8 Schementer 0.5 0.5 Diameter Sample + Contair Container | 12 r in ** | en e | 5.0 | | Cumulative Percent Retained |
| Jeon 60 any of 40 Joint of 40 | FION TEST Weight of S Weight of S Weight of S | 0.8 20 m 0.5 0.5 10 Diamete Sample + Contain Sample + Contain | 12 r in ** | en e | | | Cumulative Percent Retained |
| Juan 60 any any 20 Juan 20 Jua | TION TEST Weight of S Weight of S Weight of S | 0.8 Correction Correction Container Sample + Contain Container : | 12 r in ** | en e | | | Cumulative Percent Retained |

.

22/

| ocatio | on_ <u>A90</u> | 1 | Plant | | r | Date | | : | a stan stan a a a |
|------------------|----------------|---|----------------------------|--|---------------------------------|--|--------------|---------------------------------------|---|
| ample | • No | · · | | | Tes | ted by / | VPC | | |
| | | | · . | | | | | - | : |
| SIE | EVE AN | ALYSI | S. | D H D AM | | | D.5.4 | t o m | |
| | 4 - F | | | D-5, 2.0 ^m | - | | -No. 2 | | |
| eicht | of Sampl | e and (| Container | ·: | 1 | | | | · · · · · |
| | of Conta | | | • | | · · · | | | |
| | of Sam | 14 | | : | ÷ 1 | | | | en de la composition de la composition En la composition de la |
| Sieve | Cumulativ | | Retained | | Sieve | Cumulative | Weight | Retained | Cumulative |
| Size | (C+S) | C | s | Cumulative Passing Percent Retained | Size | (C+S) | C | S | Percent Retaied |
| 10 | (0137 | ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~ | | h | 10 | | | | |
| 5 | | | | <u>100</u> 99.4 | 5 | | | | <u> 100 </u> |
| 2.5 | | <u> </u> | | 75.5 | 2.5 | | · · · | · · · · · · · · · · · · · · · · · · · | 80.3 |
| 1.2 | | | | 55.5 | 1.2 | | | | 68.7 |
| 0.6 | | | | 41.9 | 0.6 | | | · · | 59.5 |
| 0.3 | | | ļ | 18.Z | 0.3 | | 1. A. | | 39.4 |
| 0.15 | | | | 7.4- | 0.15 | | | | 18.9 |
| resing Fotal | | | L | | Passing Total | | · · · | | |
| | | : | L | | - | | | | |
| ax. s | ize: " | M | Finer | ess modulus : | Max | . size : | ₩1.1 74 | Fine | ness modulus. |
| | | | | | | | | | |
| | | | | DDOLH M O | | oma | | | |
| | • | | | RESULT C |)F TE | STS | | | |
| 4 | 100 | 0.15 | 0.3 | 1 A B A O 6 | 1.2 | 2.5 | 5.0 | 5 | 0.0 |
| in the | 80 | | | | | | \mathbf{X} | | |
| 90 A | 80 | | | | | | | | Retained |
| X | | | | D 6, 40 4 | | | | | Å |
| amulative Percon | 60 | | | | $\mathbf{\mathbf{\mathcal{L}}}$ | | | | 40 Para |
| ន្ត | | | | | * ->- | 1-320 | mi/ | | ero |
| | 4 | | | | | | | | 60 e |
| <u>`</u> | 2 44 | | 21 | | | | | | , Š |
| 1 | | | - 7 | | | | | | la |
| Ĩ | 20 | | 24 | | E | | | | Oumula Oum |
| , Ş | | | | | | | | | 5 B |
| | 0 | | | 0.5 1.0 | 1 | | | | 3100 |
| | | : | 1997 - 1997 1997 - 1997 | Diameter | r in 🎇 | an a | | | |
| DE | CANTA | ΓΙΟΝ | TEST | | D. | 5.2.0m | | | |
| <u>.</u> | | γ | | | | 0 | <u> </u> | | ······································ |
| | | | | | | | | | |
| setore | e_Testing | and the second | ht of Co | mple + Contain | | · · · · · · · · · · · · · · · · · · · | | | |

 Before Testing
 Weight of Sample + Container :

 Weight of Container
 :

 Weight of Sample
 :

 After Testing
 Weight of Sample + Container :

 Weight of Container :
 :

 Weight of Sample
 :

 Decreased Amount
 :

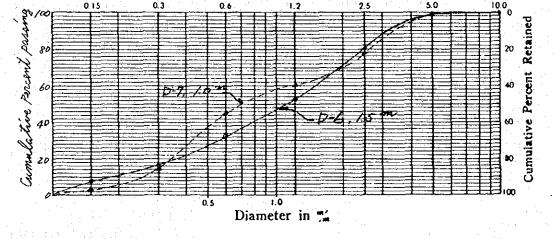
 Percentage
 :

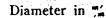
N.K.Form #3341

222

| ocatio | on <u>Ago</u> | -0 | _ Plant_ | | D | ate ted by/ | IPC, | | |
|--------------|--|--|--|---|------------------|-----------------|-------------------------|-------|---|
| mple | * No | | | | 1 es | lea by <u>/</u> | | ····· | |
| cir | EVE AN | 11 VSI | | | | | | | |
| - 310 | 5715 2314, | | J. | D-6, 15 m | • | | D-7 | 10 m | |
| | ана. 1911 — Полого Полого 1911 — Полого | | | No. 1 | | | D-7 No. 2 | | |
| eight | of Sampl | le and (| Container | · · | | | | · . | |
| - 18 A. | of Conta | and the second second | | • | | | | | |
| - - - | of Sam | 1 A A A A A A A A A A A A A A A A A A A | | • | | · · · · | · · · | 1 | |
| | | | | · | · | | | | |
| ieve | Cumulativ | | | Cumulative passing Percent Retained | Sieve | Cumulativ | | | Cumulative passa Percent Retained |
| Size | (C+S) | С | S | Percent Recuined | Size | (C+S) | C | S | rercent service |
| 10 | | · · · · · · · · | | 100 | 10 | 1. F | | | - 100 |
| 5 | | | ана. Даниана на селото на | 98.9 | 5 | | | | <u>99.8</u> |
| 2.5 | | | | 80.1 | 2,5 | | | | <u> 77.3</u> |
| 1.2 | | | | 52.3 | 1.2 | · · · · | | | 60.5 |
| 0.6 | | | | 33.1 | 0.6 | | | | 45.4 |
| | | an a | | 16:4 | 0.3 | | | ·: | /4.2 |
| 0.3 | | | | 7.8 | 0,15 | | | | 3.3 |
| 0.3 | | | | | | | | | |
| | | | | | Passing Total | | | | |

. .





| Before Testing | Weight of Sample + Container | • | | |
|----------------|------------------------------|-------|---|-------|
| | Weight of Container | • | | |
| | Weight of Sample | • | | |
| After Testing | Weight of Sample + Container | • | | |
| | Weight of Container: | • | | |
| | Weight of Sample | | | |
| | Decreased Amount | | | • |
| | Percentage | 23.0% | • | 6.8 % |

-

224 SAND TEST I Date Plant____ Location Agos Tested by NPC Sample No. I. SIEVE ANALYSIS. D-9, 1.0 m No. 2 D-8,1.0m Weight of Sample and Container: Weight of Container Weight of Sample Cumulative Weight Retained Cumulative passw Percent Retaied Cumulative Sieve Cumulative Weight Retained Sieve Percent Retained Size (C+S)Ç S Size (C+S)C S 10 100 10 100 5 5 99.9 99.4 2.5 2.5 99.9 74.4 1.2 1.2 99.1 45.1 0.6 88.4 0.6 270 0.3 0.3 46.7 13.8 0.15 0.15 13.1 68 Passie assing Total Port? Fineness modulus. ua .nt Max. size : Fineness modulus: Max. size: . M RESULT OF TESTS 0.15 two percent passing 100 Retained D-9.10 20 80 Cumulative Percent •0 60 0-8 10 60 40

0.5 10 Diameter in 😤

| ION TEST | D-8.1.0m | | D-9. 1.0 m |
|--------------------------------|---|--|--|
| Weight of Sample + Container : | | | |
| Weight of Container : | | | |
| Weight of Sample : | | | |
| Weight of Sample + Container : | | | |
| Weight of Container : : | | | |
| Weight of Sample : | | | |
| Decreased Amount | | · · · · · · · · · · · · · · · · · · · | |
| Percentage | 4.4 % | | 3.8% |
| | Weight of Sample + Container :Weight of ContainerWeight of SampleWeight of Sample + Container :Weight of Container :Weight of Sample:Decreased Amount | Weight of Sample + Container : Weight of Container : Weight of Sample + Container : Weight of Container : Weight of Sample Weight of Sample Decreased Amount | Weight of Sample + Container : Weight of Container Weight of Sample Weight of Sample + Container : Weight of Container : Weight of Sample Decreased Amount |

D

N K Form K3341

∃ı∞