Project: Example NovoFormula Project   Project No.: 120-251
Site Address:123 Hastings St, Vancouver, BC   Client: ABC Construction Ltd.   Page 1

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Table 1: Input Soil Parameters

Symbol	Parameter Description	Value	Unit
LL	Liquid Limit	45	%
PL	Plastic Limit	020	%
SL	Shrinkage Limit	15	%
IP	Plastic Index	10	%
w	Moisture Content	45	%
e	Void Ratio	0.8	
eL	Void Ratio at Liquid Limit	0.7	
Gs	Specific Gravity	2.7	
gsat	Saturated Unit Weight	20	kN/m3
gdry	Dry Unit Weight	18	kN/m3
F	Percent fine-grained (clay & silt)	80	%
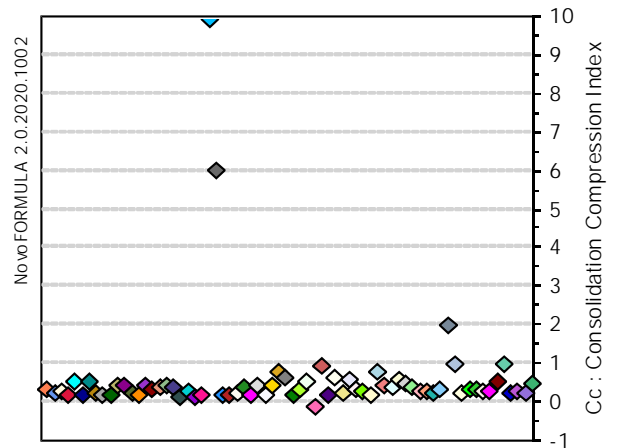
Table 2: Estimated Values For Cc : Consolidation Compression Index

Correlation Source {Equation}	Value	Equation
Al-khafaji & Andersland, 1992 {Cc=-0.156+0.411*e+0.00058*LL}	0.1989	$C_c = -0.156 + 0.411e + 0.00058LL$
Azzouz et al., 1976 {Cc=0.37*(e+0.003*LL+0.0004*w-0.34)}	0.22681	$C_c = 0.37(e + 0.003LL + 0.0004w - 0.34)$
Azzouz et al., 1976 {Cc=0.007*(LL-7)}	0.266	$C_c = 0.007(LL - 7)$
Azzouz et al., 1976 {Cc=17.66/100000*w^2+0.00593*w-0.135}	0.489465	$C_c = 17.66 X 10^{-5} w^2 + 5.93 X 10^{-3} w - 0.135$
Azzouz et al., 1976 {Cc=0.006*(LL-9)}	0.216	$C_c = 0.006(LL - 9)$
Azzouz et al., 1976 {Cc=1.21+1.005*(e-1.87)}	0.13465	$C_c = 1.21 + 1.005(e - 1.87)$
Azzouz et al., 1976 {Cc=0.01*(w-5)}	0.4	$C_c = 0.01(w - 5)$
Bowles, 1989 {Cc=0.208*e+0.0083}	0.1747	$C_c = 0.208e + 0.0083$
Bowles, 1989 {Cc=0.0115*w}	0.5175	$C_c = 0.0115w$
Bowles, 1989 {Cc=0.156*e+0.0107}	0.1355	$C_c = 0.156e + 0.0107$
Carrier, 1985 {Cc=0.329*(0.01*w*Gs-0.027*PL+0.0133*IP* (1.192+F/IP))}	0.6242893	$Cc = 0.329(0.01w.G_s - 0.027PL + 0.0133IP(1.192 + \frac{F}{IP})$
Cozzolino, 1961 {Cc=0.0046*(LL-9)}	0.1656	$C_c = 0.0046(LL - 9)$
Cozzolino, 1961 {Cc=0.43*(e-0.25)}	0.2365	$C_c = 0.43(e - 0.25)$
Cozzolino, 1961 {Cc=1.21+1.055*(e-1.87)}	0.08115001	$C_c = 1.21 + 1.055(e - 1.87)$
Herrero, 1980 {Cc=0.5*(9.807/gdry)^2.4}	9.891523	$C_c = 0.5(\frac{9.807}{})^{2.4}$
Herrero, 1983 {Cc=0.01*(w-7.549)}	0.37451	$C_c = 0.01(w - 7.549)$
Herrero, 1983 {Cc=0.185*(Gs*(9.807/gdry)^2-0.144)}	5.98205	$C_c = 0.185(Gs(\frac{9.807}{})^2 - 0.144)$
Hough, 1957 {Cc=0.29*(e-0.27)}	0.1537	$C_c = 0.3(e - 0.27)$

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Table 2: Estimated Values For Cc : Consolidation Compression Index

Reference	Value	Formula
Hough, 1957 {Cc=0.35*(e-0.5)}	0.105	$C_c = 0.35(e - 0.5)$
Koppula, 1981 {Cc=0.0093*w}	0.4185	$Cc = 0.0093w$
Koppula, 1981 {Cc=-0.0997+0.009*LL+0.0014*IP+0.0036*w+0.1156*...	0.77378	$C_c = -0.0997 + 0.009LL + 0.0014IP + 0.0036w + 0.1156e + 0.0025F$
Koppula, 1986 {Cc=0.009*w+0.005*LL}	0.63	$C_c = 0.009w + 0.005LL$
Mayne, 1980 {Cc=(LL-13)/109}	0.293578	$C_c = \frac{LL-13}{109}$
Moh, Chin, Lin & Woo, 1989 {Cc=0.015*(w-8)}	0.555	$C_c = 0.015(w-8)$
Moh, Chin, Lin & Woo, 1989 {Cc=0.54*(e-0.23)}	0.3078	$C_c = 0.54(e-0.23)$
Nacci et al., 1975 {Cc=0.02+0.014*IP}	0.16	$C_c = 0.02 + 0.014PI$
Nagaraj & Murthy, 1983 {Cc=0.2237*eL}	0.15659	$C_c = 0.2237e_L$
Nagaraj & Murthy, 1985 {Cc=0.00234*LL*Gs}	0.28431	$C_c = 0.00234LL.G_s$
Nagaraj & Murthy, 1986 {Cc=0.2343*eL}	0.16401	$C_c = 0.2343e_L$
Nagaraj et al., 1995 {Cc=0.274*eL}	0.1918	$C_c = 0.274e_L$
Nakase et al., 1988 {Cc=0.046+0.0104*IP}	0.15	$C_c = 0.046 + 0.0104IP$
Nishant Dayal et al., 2006 {Cc=0.46*(e-0.28)}	0.2392	$C_c = 0.46(e-0.28)$
Nishant Dayal et al., 2006 {Cc=0.0037*(LL+25.5)}	0.26085	$C_c = 0.0037(LL+25.5)$
Nishant Dayal et al., 2006 {Cc=0.0135*w-0.1169}	0.4906	$C_c = 0.0135w - 0.1169$
Nishant Dayal et al., 2006 {Cc=-0.05793*gdry+1.1014}	0.9375986	$C_c = -0.05793\gamma_{dry} + 1.1014$
Nishant Dayal et al., 2006 {Cc=0.0042*IP+0.165}	0.207	$C_c = 0.0042PI + 0.165$
Nishant Dayal et al., 2006 {Cc=0.46*e-0.049*Gs+0.0023}	0.238	$C_c = 0.46e - 0.049G_s + 0.0023$
Nishant Dayal et al., 2006 {Cc=0.4965*e-0.0014*w-0.123}	0.2112	$C_c = 0.4965e - 0.0014w - 0.123$
Nishant Dayal et al., 2006 {Cc=-0.247*e+0.004*LL+0.01*w+0.021}	0.4534	$C_c = -0.247e + 0.004LL + 0.01w + 0.021$
Nishida, 1956 {Cc=1.15*(e-0.35)}	0.5175	$C_c = 1.15(e-0.35)$
Nishida, 1956 {Cc=1.15*(e-0.91)}	-0.1265	$C_c = 1.15(e-0.91)$
Nishida, 1956 {Cc=1.15*e}	0.92	$C_c = 1.15e$
Rendon & Herrero, 1983 {Cc=0.141*Gs*(gsat/gdry)}	0.423	$C_c = 0.141G_s\frac{\gamma_{sat}}{\gamma_{dry}}$
Rendon & Herrero, 1983 {Cc=0.141*Gs^1.2*((1+e)/Gs)^2.38}	0.1769125	$C_c = 0.141G_s^{1.2}\left(\frac{1+e}{G_s}\right)^{2.38}$
Shorten, 1995 {Cc=0.2*(e^1.6)}	0.1399503	$C_c = 0.2e^{1.6}$
Shouka, 1964 {Cc=0.017*(LL-20)}	0.425	$C_c = 0.017(LL - 20)$

Table 2: Estimated Values For Cc : Consolidation Compression Index

Reference	Value	Formula
Shouka, 1964 {Cc=0.017*(LL-20)}	0.425	$C_c = 0.017(LL - 20)$
Skempton, 1944 {Cc=0.007*(LL-10)}	0.245	$C_c = 0.007(LL-10)$
Sowers, 1970 {Cc=0.75*(e-0.5)}	0.225	$C_c = 0.75(e-0.5)$
Sridharan & Nagaraj, 1999 {Cc=0.007*(LL-SL+18)}	0.336	$C_c = 0.007(LL - SL + 18)$
Terzaghi & Peck, 1967 {Cc=0.009*(LL-10)}	0.315	$C_c = 0.009*(LL-10)$
Tsuchida, 1991 {Cc=0.009*(LL-8)}	0.333	$C_c = 0.009(LL - 8)$
Tsuchida, 1991 {Cc=0.009*LL}	0.405	$C_c = 0.009LL$
Worth & Wood, 1978 {Cc=0.005*Gs*IP}	0.135	$C_c = 0.005G_s.IP$
Wroth & Wood, 1978 {Cc=0.5*(IP/100)*Gs}	0.135	$C_c = 0.5\frac{PI}{100}G_s$
Yamagutshi, 1959 {Cc=0.013*(LL-13.5)}	0.4095	$C_c = 0.013(LL - 13.5)$
Yoon et al., 2004 {Cc=0.012*(LL+16.4)}	0.7368	$C_c = 0.012(LL+16.4)$
Yoon et al., 2004 {Cc=0.011*(LL-6.36)}	0.42504	$C_c = 0.011(LL-6.36)$
Yoon et al., 2004 {Cc=0.01*(LL-10.9)}	0.341	$C_c = 0.01(LL-10.9)$
Yoon et al., 2004 {Cc=0.013*(w-3.85)}	0.53495	$C_c = 0.013(w-3.85)$
Yoon et al., 2004 {Cc=0.01*(w+2.83)}	0.4783	$C_c = 0.01(w+2.83)$
Yoon et al., 2004 {Cc=0.011*(w-11.22)}	0.37158	$C_c = 0.011(w-11.22)$
Yoon et al., 2004 {Cc=0.54*(e-0.37)}	0.2322	$C_c = 0.54(e-0.37)$
Yoon et al., 2004 {Cc=0.39*(e-0.13)}	0.2613	$C_c = 0.39(e-0.13)$
Yoon et al., 2004 {Cc=0.37*(e-0.28)}	0.1924	$C_c = 0.37(e-0.28)$
Yoon et al., 2004 {Cc=0.165+.014*IP}	0.305	$C_c = 0.165+\frac{PI}{100}$
Yoon et al., 2004 {Cc=-0.16*gdry+2.4}	1.947588	$C_c = -0.16\gamma_{dry}+2.4$
Yoon et al., 2004 {Cc=-0.066*gdry+1.15}	0.9633801	$C_c = -0.066\gamma_{dry}+1.15$
Yoon et al., 2004 {Cc=-0.0003*w+0.538*e+0.002*LL-0.3}	0.2069	$C_c = -0.0003w+0.538e+0.002LL-0.3$
Yoon et al., 2004 {Cc=0.0098*w+0.194*e-0.0025*IP-0.256}	0.3152	$C_c = 0.0098w+0.194e-0.0025PI-0.256$
Yoon et al., 2004 {Cc=0.0038*w+0.12*e+0.0065*LL-0.248}	0.3115	$C_c = 0.0038w+0.12e+0.0065LL-0.248$