Sheet 1 of 1

TEST HOLE NO.
MW04-4

LOG OF TEST HOLE

LOCATION: See Drawing No. 19-2716-2-3

TOP OF HOLE ELEV: 98.81m Site Datum
METHOD: Hand Auger
DRILLING CO.: T.E.C.L.
INSPECTOR: P.J.W.

THURBER

CLIENT: Jefferies Silversmiths
PROJECT: 1026 Fort Street
Environmental Remediation
DATE: February 20, 2004
FILE NO.: 19-2716-2 **SCALE:** 1:20

PENETRATION (blows per 300 mm) | WATER CONTENT (%) ○ Disturbed ● Undisturbed | WATER LEVEL Plastic Limit — Liquid Limit | SAMPLES Disturbed, Undisturbed, No recovery

10 20 30 40 50

Standpipe
Stickup 0.14m

Groundwater @
97.77m Site Datum

Standpipe Piezometer

USCS SOIL CLASSIFICATION SYSTEM

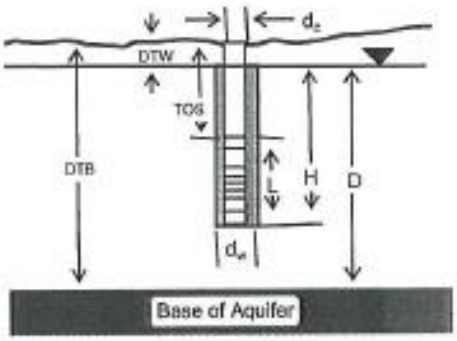
SOILS DESCRIPTION	DEPTH (METERS)
Dark brown, mixed FILL; organic topsoil with silty clay, concrete and metal debris	0
	0.5
Dark brown, silty organic TOPSOIL	
Brown, silty SAND; trace of shells	1
	1.5
Grey, silty SAND; trace of shells	
	2
	2.5
Grey, clayey SILT; trace to some sand	
	3
End of hole @ required depth	
	3.5
	4

WELL ID: MW04-4

Local ID: 19-2716-2
Date: 02/25/2004
Time: 10:00

INPUT

Construction:	
Casing dia. (d_c)	5.1 cm
Annulus dia. (d_w)	6 Inch
Screen Length (L)	1.5 Meter
Depths to:	
water level (DTW)	1.04 Meter
top of screen (TOS)	1.5 Meter
Base of Aquifer (DTB)	25 Meter
Annular Fill:	
across screen --	Coarse Sand
above screen --	Bentonite
Aquifer Material --	Fine Sand



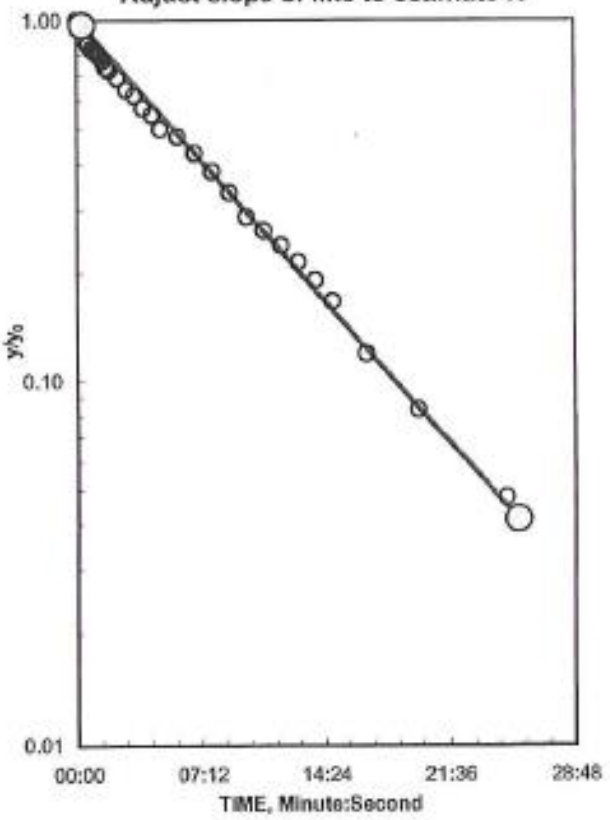
COMPUTED

L_{wetted}	1.5 Meter
D =	23.96 Meter
H =	1.96 Meter
L/r_w =	6.00
$y_{0\text{-DISPLACEMENT}}$ =	42.00 cm
$y_{0\text{-SLUG}}$ =	49.23 cm
From look-up table using L/r_w	
Partial penetrate A =	1.766
B =	0.247
ln(Re/rw) =	0.988
Re =	0.67 cm
Slope =	0.000906 $\log_{10}$/sec
$t_{90\%}$ recovery =	1104 sec

Input is consistent.

K = 0.0001 cm/Second

Adjust slope of line to estimate K



K= 0.0001 is less than likely minimum of 0.0011 for Fine Sand

REMARKS: Bouwer and Rice analysis of slug test, WRR 1976