USUAL OPEN - HOLE TEST EVALUATION
SOUTH FLORIDA WATER MANAGEMENT METHOD

Client:	SFWMD	Test No.:	W-3	Date:	08/13/13
Project:	C-139 Annex Restoration	Well Depth:	10.0 Feet	Analyst:	RK
Job No.:	7111-13-142	Location:	Hendry County		

Elapsed Time (min)	Reading	Flow Rate (gpm)
0	0.00	0.00
1	2.50	2.50
2	5.00	2.50
3	7.50	2.50
4	10.00	2.50
5	12.50	2.50
6	15.00	2.50
7	17.50	2.50
8	20.00	2.50
9	22.50	2.50
10	25.00	2.50
11	27.50	2.50
12	30.0	2.50
13	32.5	2.50
14	35.0	2.50
15	37.5	2.50
Constant Flow Rate (gpm)		2.50

Equation for K Value:

$$\frac{4Q}{\pi * d(2H_2^2 + 4H_2D_s + H_2d)}$$

k = 1.60E-04 $CF/S/Ft^2$ - Ft Head

H_2 = 2.50 Ft Hydraulic Head

Soil Profile

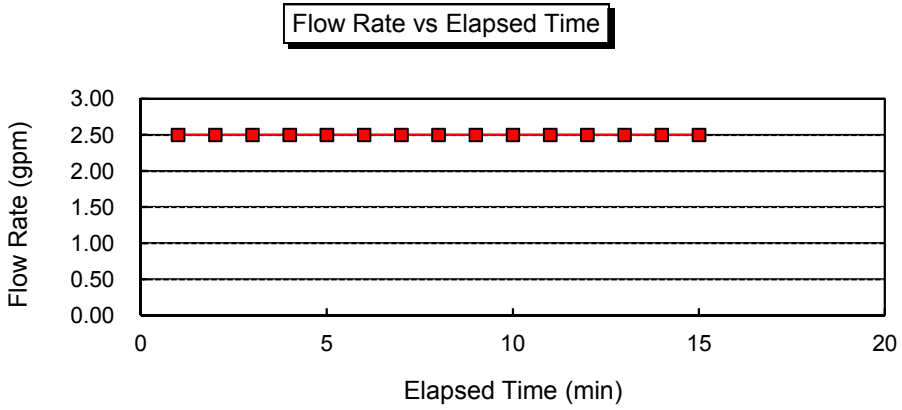
0-14' Sand (SP)

14'-30' Sand (SP)

Where:

Hydraulic Conductivity

K= 1.60E-04 $CF/S/Ft^2$ - Ft Head



Ds= 7.5 ft

d= 0.5 ft

GWT= 2.50 ft

USUAL OPEN - HOLE TEST EVALUATION
SOUTH FLORIDA WATER MANAGEMENT METHOD

Client:	SFWMD	Test No.:	W-3	Date:	08/13/13
Project:	C-139 Annex Restoration	Well Depth:	15.0 Feet	Analyst:	RK
Job No.:	7111-13-142	Location:	Hendry County		

Elapsed Time (min)	Reading	Flow Rate (gpm)
0	0.00	0.00
1	2.50	2.50
2	5.10	2.60
3	7.60	2.50
4	10.10	2.50
5	12.40	2.30
6	15.00	2.60
7	17.40	2.40
8	19.80	2.40
9	22.00	2.20
10	24.20	2.20
11	26.80	2.60
12	29.1	2.30
13	31.4	2.30
14	33.7	2.30
15	35.9	2.20
Constant Flow Rate (gpm)		2.39

Equation for K Value: $\frac{4Q}{\pi * d\ (4H2Ds + H2d)}$

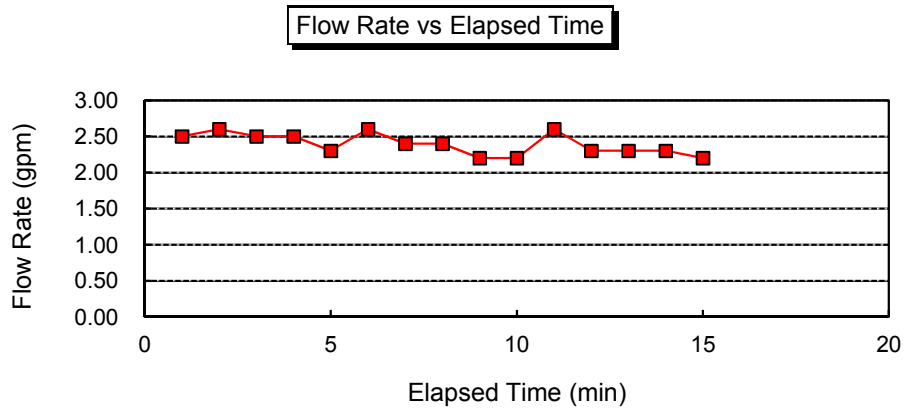
k = 2.70E-04 CF/S/Ft^2 - Ft Head
H_2 = 2.50 Ft Hydraulic Head

Soil Profile
0-14' Sand (SP)
14'-30' Sand (SP)

Where:

Hydraulic Conductivity

K= 2.70E-04 CF/S/Ft^2 - Ft Head



Ds= 4.5 ft
d= 0.5 ft
GWT= 2.50 ft

USUAL OPEN - HOLE TEST EVALUATION
SOUTH FLORIDA WATER MANAGEMENT METHOD

Client:	SFWMD	Test No.:	W-3	Date:	08/13/13
Project:	C-139 Annex Restoration	Well Depth:	25.0 Feet	Analyst:	RK
Job No.:	7111-13-142	Location:	Hendry County		

Elapsed Time (min)	Reading	Flow Rate (gpm)
0	0.00	0.00
1	2.00	2.00
2	3.90	1.90
3	5.90	2.00
4	7.80	1.90
5	9.70	1.90
6	11.60	1.90
7	13.60	2.00
8	15.60	2.00
9	17.50	1.90
10	19.50	2.00
11	21.40	1.90
12	23.3	1.90
13	25.2	1.90
14	27.1	1.90
15	29.0	1.90
Constant Flow Rate (gpm)		1.93

Equation for K Value: $\frac{4Q}{\pi * d\ (4H2Ds + H2d)}$

k = 1.14E-04 CF/S/Ft^2 - Ft Head

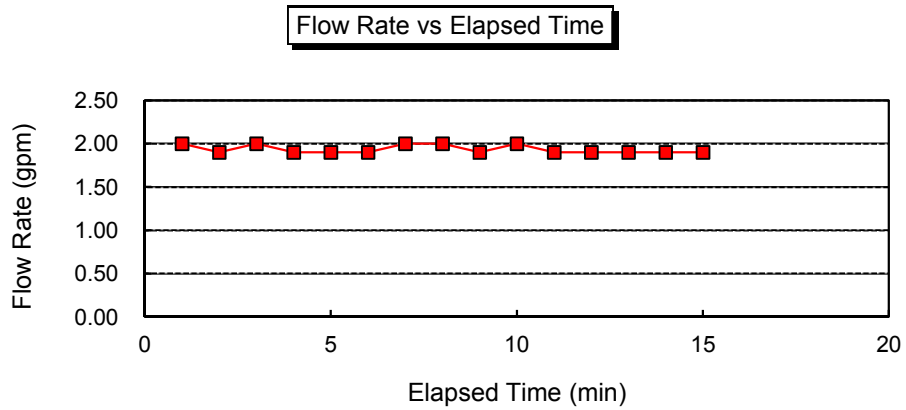
H_2 = 2.50 Ft Hydraulic Head

Soil Profile
0-14' Sand (SP)
14'-30' Sand (SP)

Where:

Hydraulic Conductivity

K= 1.14E-04 CF/S/Ft^2 - Ft Head



Ds= 9.5 ft
d= 0.5 ft
GWT= 2.50 ft