USUAL OPEN - HOLE TEST EVALUATION
SOUTH FLORIDA WATER MANAGEMENT METHOD

Client:	SFWMD	Test No.:	W-16	Date:	08/19/13
Project:	C-139 Annex Restoration	Well Depth:	10.0 Feet	Analyst:	JO
Job No.:	7111-13-142	Location:	Hendry County		

Elapsed Time (min)	Reading	Flow Rate (gpm)
0	0.00	0.00
1	9.00	9.00
2	18.00	9.00
3	27.10	9.10
4	36.10	9.00
5	45.20	9.10
6	54.30	9.10
7	63.40	9.10
8	72.50	9.10
9	81.50	9.00
10	90.60	9.10
11	99.70	9.10
12	108.8	9.10
13	117.9	9.10
14	127.0	9.10
15	136.1	9.10
Constant Flow Rate (gpm)		9.07

Equation for K Value:

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

k = 3.96E-04 $CF/S/Ft^2$ - Ft Head

H_2 = 4.00 Ft Hydraulic Head

Soil Profile

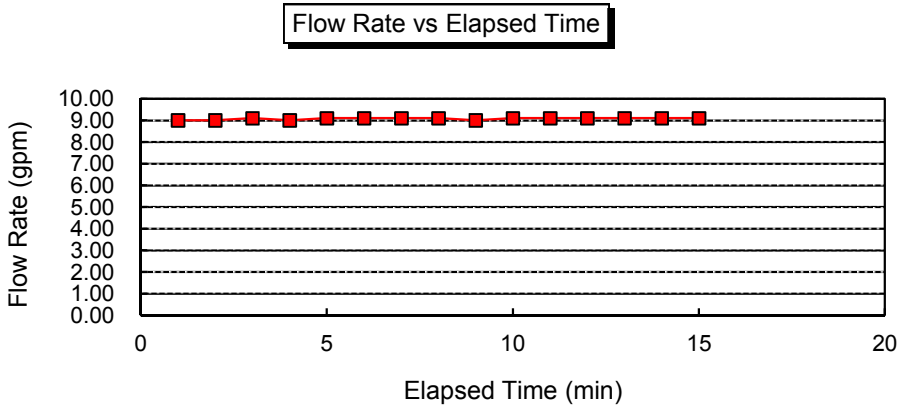
0-23' Sand (SP)

23'-25' Sand with shell (SP)

Where:

Hydraulic Conductivity

K= 3.96E-04 $CF/S/Ft^2$ - Ft Head



Ds= 6 ft

d= 0.5 ft

GWT= 4.00 ft

USUAL OPEN - HOLE TEST EVALUATION
SOUTH FLORIDA WATER MANAGEMENT METHOD

Client:	SFWMD	Test No.:	W-16	Date:	08/19/13
Project:	C-139 Annex Restoration	Well Depth:	15.0 Feet	Analyst:	JO
Job No.:	7111-13-142	Location:	Hendry County		

Elapsed Time (min)	Reading	Flow Rate (gpm)
0	0.00	0.00
1	5.00	5.00
2	10.00	5.00
3	15.00	5.00
4	20.00	5.00
5	25.00	5.00
6	30.10	5.10
7	35.20	5.10
8	40.20	5.00
9	45.20	5.00
10	50.30	5.10
11	55.20	4.90
12	60.4	5.20
13	65.3	4.90
14	70.4	5.10
15	75.4	5.00
Constant Flow Rate (gpm)		5.03

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

k = 3.48E-04 CF/S/Ft^2 - Ft Head

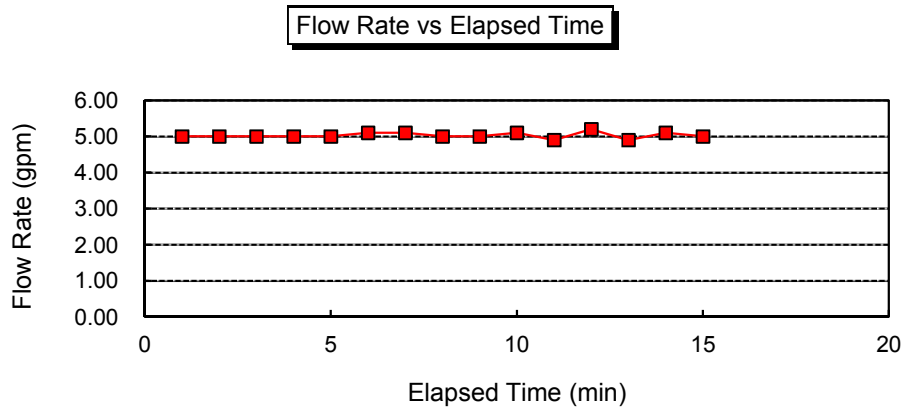
H_2 = 4.00 Ft Hydraulic Head

Soil Profile
0-23' Sand (SP)
23'-25' Sand with shell (SP)

Where:

Hydraulic Conductivity

K= 3.48E-04 CF/S/Ft^2 - Ft Head



Ds= 5 ft
d= 0.5 ft
GWT= 4.00 ft

USUAL OPEN - HOLE TEST EVALUATION
SOUTH FLORIDA WATER MANAGEMENT METHOD

Client:	SFWMD	Test No.:	W-16	Date:	08/19/13
Project:	C-139 Annex Restoration	Well Depth:	25.0 Feet	Analyst:	JO
Job No.:	7111-13-142	Location:	Hendry County		

Elapsed Time (min)	Reading	Flow Rate (gpm)
0	0.00	0.00
1	6.20	6.20
2	12.40	6.20
3	18.60	6.20
4	24.90	6.30
5	31.20	6.30
6	37.40	6.20
7	43.60	6.20
8	50.00	6.40
9	56.40	6.40
10	62.70	6.30
11	69.00	6.30
12	75.3	6.30
13	81.6	6.30
14	87.9	6.30
15	94.2	6.30
Constant Flow Rate (gpm)		6.28

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

k = 2.20E-04 CF/S/Ft^2 - Ft Head

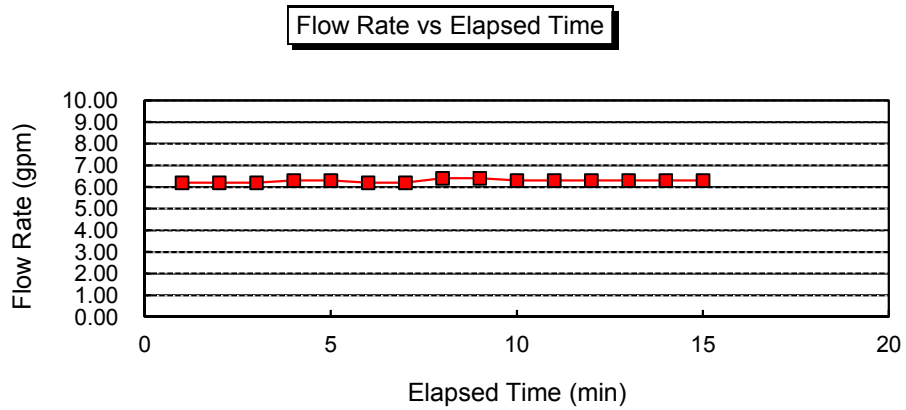
H_2 = 4.00 Ft Hydraulic Head

Soil Profile
0-23' Sand (SP)
23'-25' Sand with shell (SP)

Where:

Hydraulic Conductivity

K= 2.20E-04 CF/S/Ft^2 - Ft Head



Ds= 10 ft
d= 0.5 ft
GWT= 4.00 ft