■ correct\_figures\_Hull.md

### **Questions**

- 1. Just to check, are the inputs into the graphical solution located on the sheet 'inputs', whereas the inputs for solving (numerically) for K and q is located on the sheet 'model and key plot' cells C7:C9? So, the charts will not be affected by the values edited in that (C7:C9) range.
- 2. I don't really understand the iterative solutions thing in excel. I can see that when we change the inputs, the solutions for H (column I) are change, but then clicking anywhere in the sheet they will change some more. Can you go over that in class?
- 3. I was having a bit of trouble getting the third layer to render, and I think (maybe) I found an error in the K zone cell column. I think maybe the bottom 6 or so rows should also reference inputs?

G
K zone cell
=inputs!D16
=inputs!D17
=inputs!D18
=inputs!D19
=inputs!D20
=inputs!D21
=inputs!D22
2
2
2
2
2
2

# Figure 1 (Homogenous)

• Note I took the route of modifying from your spread sheet!

### **Parameters**

localhost:6419

Type I BC	top	150	
	bottom	0	
Grid	dz	10	
	z0	0	
K values	K1	0.0004	
	K2	0.0004	
	K3	0.0004	
		soil type	K
K zones	top cell	1	0.0004
		1	0.0004
		1	0.0004
		1	0.0004
		1	0.0004
		1	0.0004
		1	0.0004
		1	0.0004
		1	0.0004
		1	0.0004
		1	0.0004
		1	0.0004
	bottom cell	1	0.0004

Figure

localhost:6419 2/5

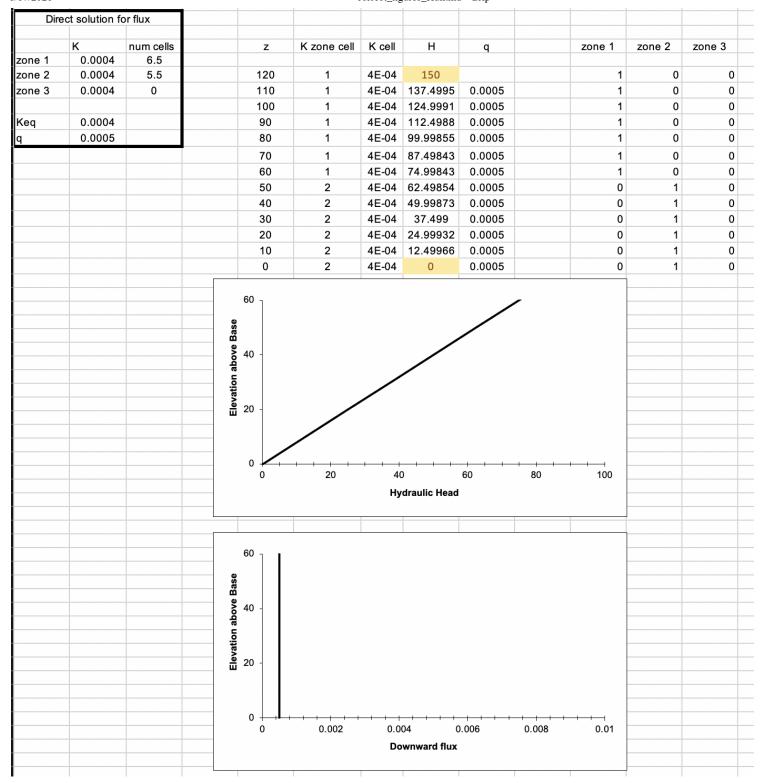


Figure 2 (Heterogeneous)

### **Parameters**

Type I BC	top	80	
	bottom	0	
Grid	dz	5	
	z0	0	
K values	K1	0.0004	
	K2	0.001	
	K3	0.005	
		soil type	K
K zones	top cell	1	0.0004
		1	0.0004
		2	0.001
		2	0.001
		2	0.001
		2	0.001
		2	0.001
		3	0.005
		3	0.005
		3	0.005
		3	0.005
		3	0.005
	bottom cell	3	0.005

<sup>•</sup> Note I took the route of modifying from your spread sheet!

# Figure

	ect solution fo	r flux										
	K	num cells		z	K zone cell	K cell	Н	q		zone 1	zone 2	zone 3
zone 1	0.0004	1.5		00		45.04	00				•	
zone 2	0.001	5		60	1	4E-04	80	0.004004		1	0	0
zone 3	0.005	5.5		55	1	4E-04				1	0	0
/ a.a.	0.001218			50 45	2	0.001		0.001624		0	1	0
Keq	0.001218			40	2	0.001		0.001624		0	1	0
9	0.001624				2	0.001		0.001624				0
				35	2	0.001		0.001624		0	1	0
				30	2	0.001		0.001625		0	1	0
				25	3	0.005		0.001625		0	0	1
				20	3	0.005		0.001625		0	0	1
				15	3	0.005		0.001626		0	0	1
				10 5	3	0.005		0.001626		0	0	1
				0	3	0.005	0	0.001626 0.001626		0	0	1
				U	3	0.005	U	0.001626		U	U	·
			Elevation above Base	20 -								
			Elevation ab		++++	1	· · · · ·	60	+ + - 80	100		
			Elevation ab		20	+ + + + + 40 Hv		60	80	100		
			Elevation ab		20		draulic Head		80	100		
			Elevation ab		20				80	100		
			Elevation ab	0 0	20				80	100		
			Elevation ab		20				80	100		
				0 0	20				80	100		
			Base	0 0	20				80	100		
			Base	0 0	20				80	100		
			Base	60	20				80	100		
			Base	60	20				80	100		
			Base	60 ]	20				80	100		
				60	20				80	100		
			Base	60 ]	20				80	100		
			Base	60 ]	20				80	100		
			Base	60 7 40 -		Ну	draulic Head					
			Base	60 ]	0.002	Hy 0.00	draulic Head	0.006	80	100		