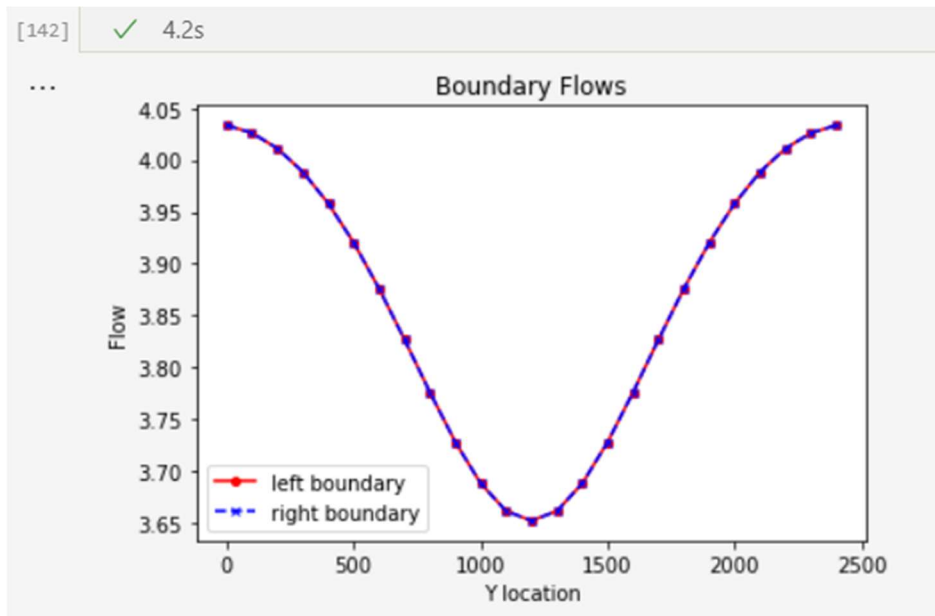
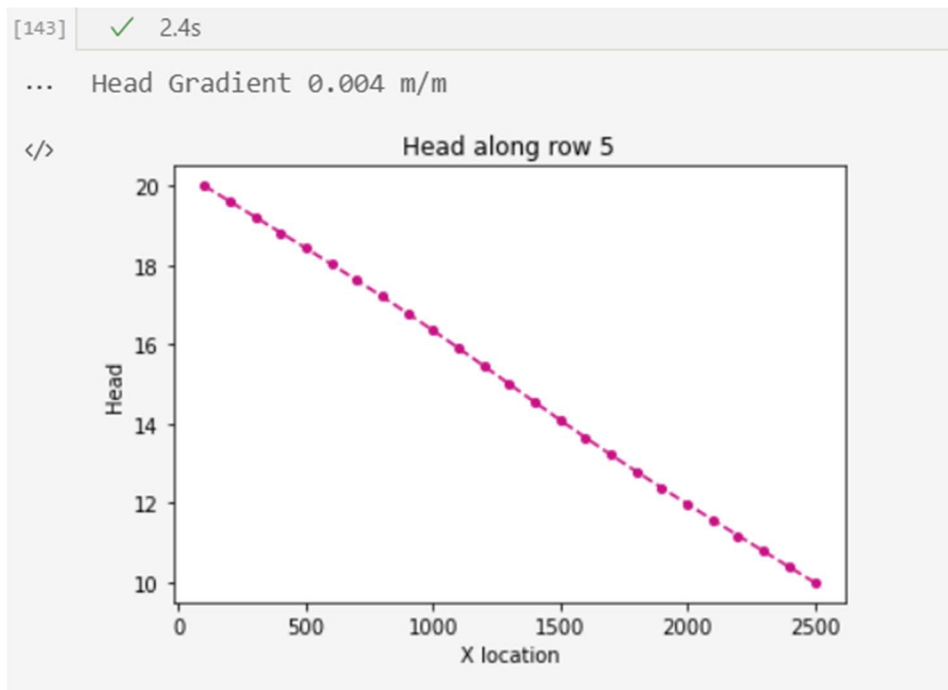


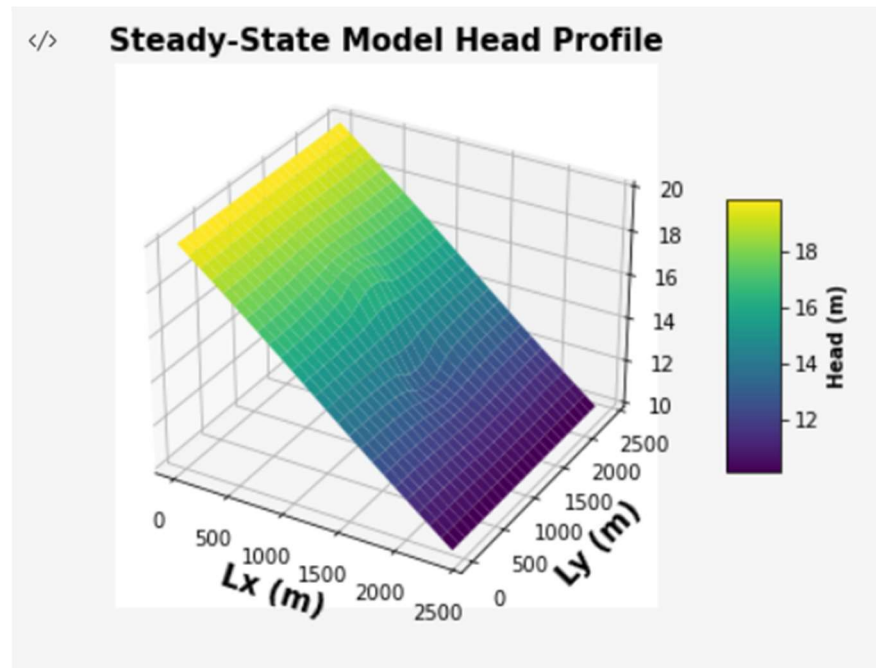
Base case figures



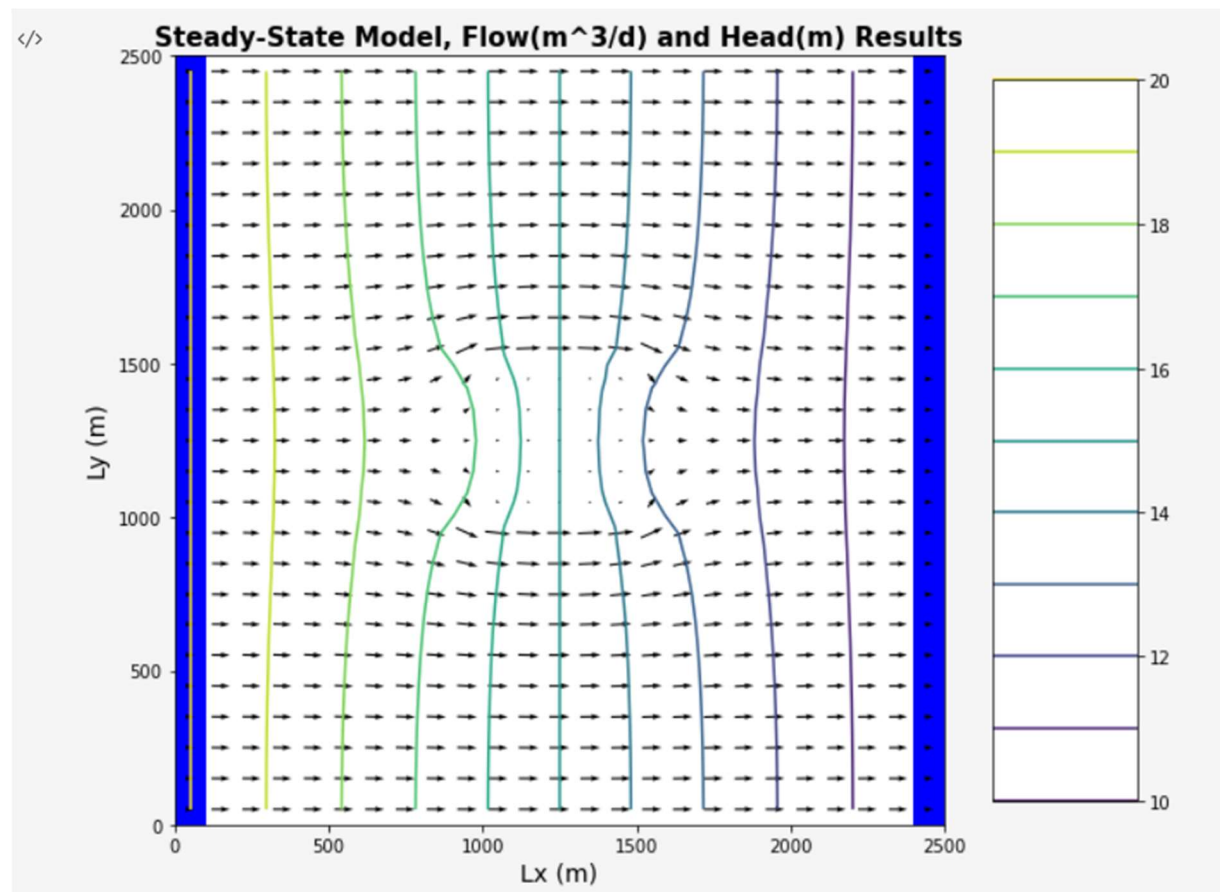
Steady state flux boundaries for base case

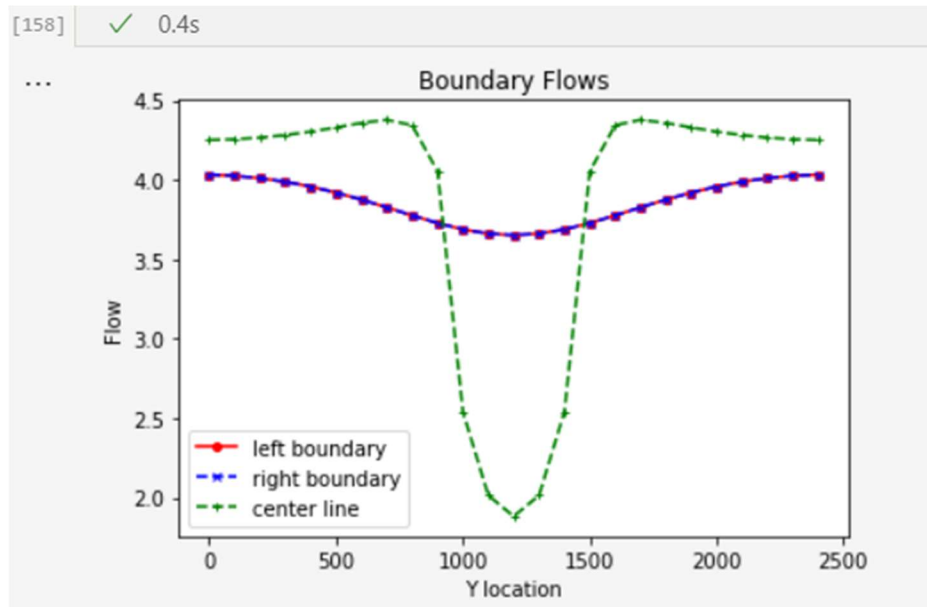


Steady state head gradient at row 5 for base code



Steady state head diagrams for base code and flow net for base case of inclusion $k = 0.1$ m/day



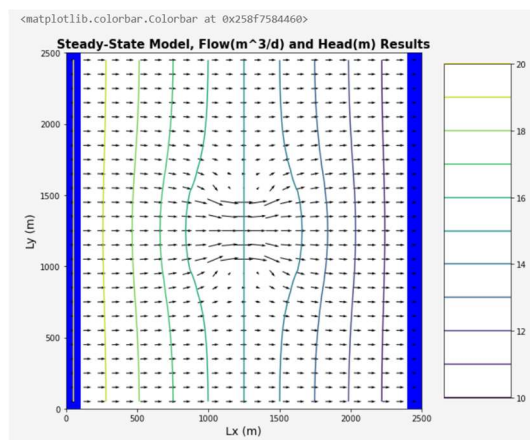


Boundary flow with centerline inclusion for base code scenario

inclusion K	0.01	0.1	1	10	100
Q	94.8075	96.6534	104.1667	111.6832	113.3824
Area	25000	25000	25000	25000	25000
Dh/Dl	0.004	0.004	0.004	0.004	0.004
Keff - flux based	0.948075	0.966534	1.041667	1.116832	1.133824
harmonic Keff	0.201613	0.735294	1	1.037344	1.041233

Calculation of Keff using net flux in each inclusion K case vs the arithmetic Keff calculation

I used the .list file to find volumetric flux (Q) in each case



flow net for K=100 in the inclusion zone

Jake Smith