

FMHS SO Invitational 2016-2017

Hydrogeology Answer Sheet

Team Name: KEY

Team #: \_\_\_\_\_

Part 1 Section 1: Multiple Choice

1. B
2. E
3. D
4. D
5. B
6. D
7. D
8. B
9. C
10. B
11. C
12. C
13. D
14. C

Part 1 Section 3: Calculations <sup>3</sup>

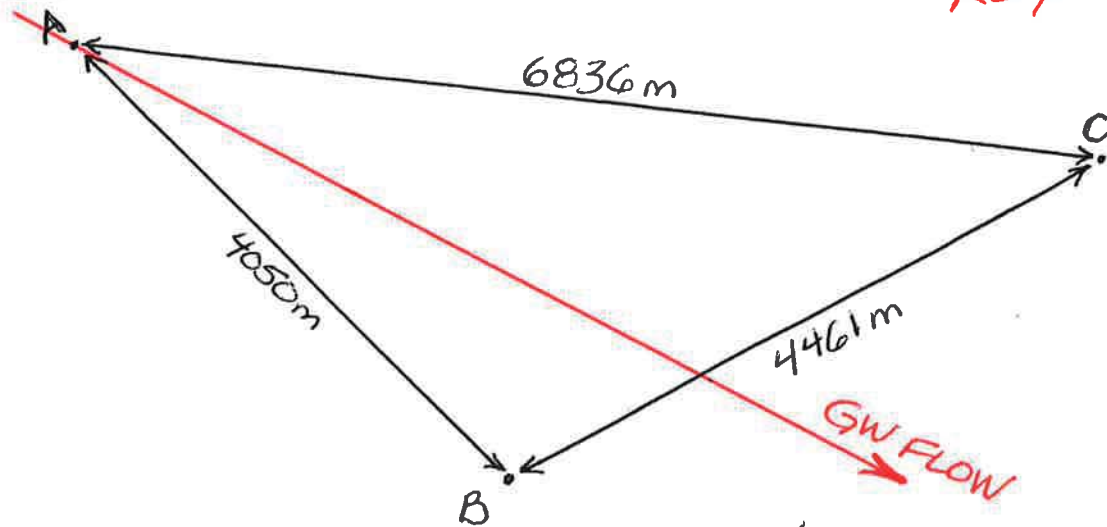
1. 73,800  $\frac{m}{day}$
2. 1.2  $\frac{m}{day}$

Part 1 Section 2: Matching

1. isotropic
2. pressure head
3. base flow
4. aquiclude
5. dispersion
6. heterogeneous
7. specific retention
8. sustainable yield
9. transmissivity
10. specific capacity

PART 2

KEY



THIS DIAGRAM  
IS TO SCALE  
1 cm = 500m

Well	Land surface elev. (m)	Depth to static water level (m)	Static water level (m)
A	828	48	
B	784	37	
C	758	32	

Follow directions in test booklet.

Graded: → Groundwater flow direction arrow on map above

→ Average water table gradient

$$= \underline{0.0085 \frac{m}{m} \pm 0.0001 \frac{m}{m}}$$