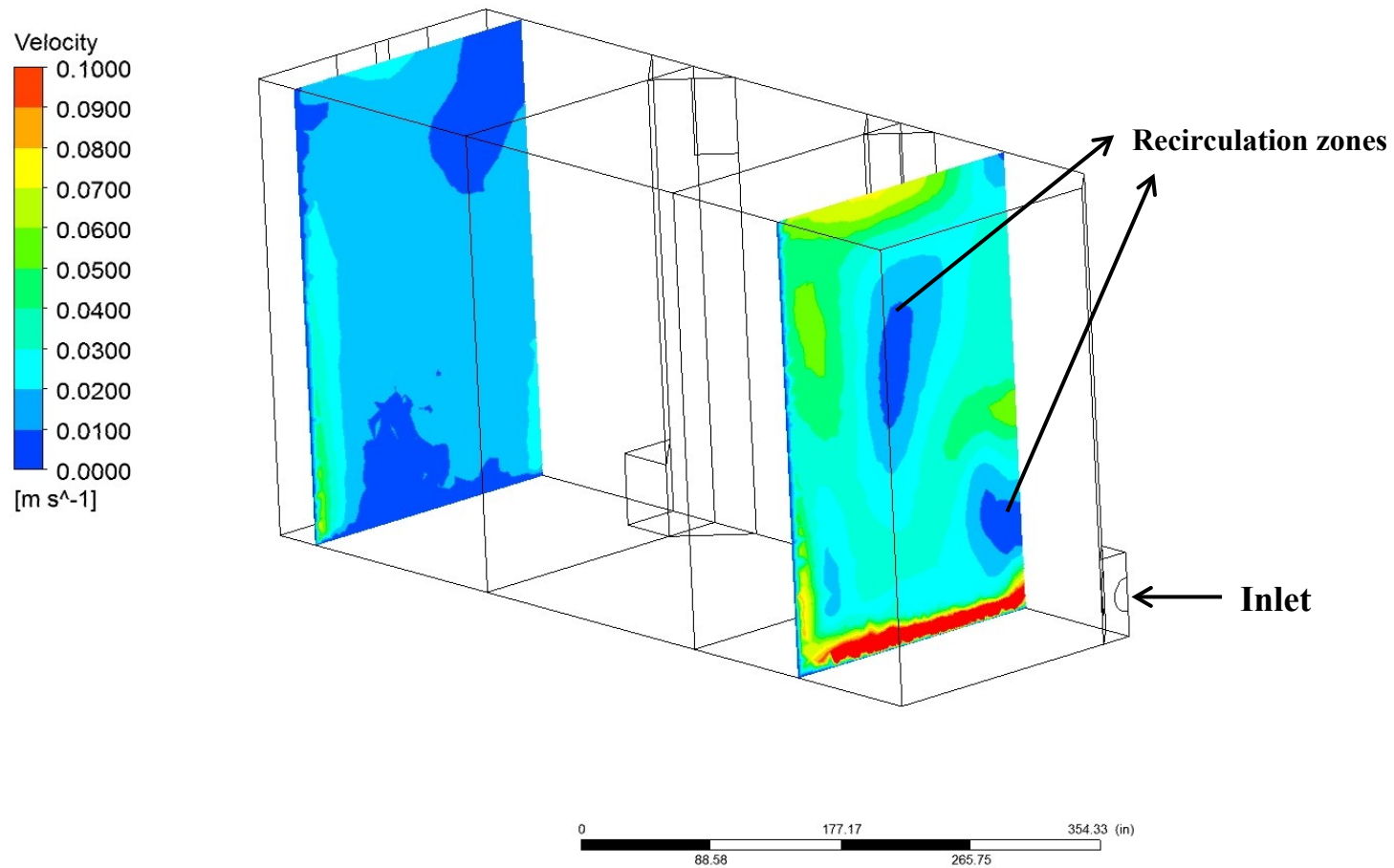


## 1 SUPPLEMENTARY INFORMATION

2           The data on the distribution of predicted velocity magnitude for the sections X-X and Y-  
3 Y at 90 ML/d was extracted from the previous study (Vadasarukkai et al.<sup>9</sup>) using the post-  
4 processing tool in ANSYS-FLUENT. As illustrated in Figure A1, it was evident that the spatial  
5 distribution of velocity magnitude was non-uniform. A local increase in velocity magnitude of  
6 approximately 0.1 - 0.16 m/s was observed closer to the inlet. A decreasing trend in the velocity  
7 magnitude was observed as moved towards the upper portion of the tank; the predicted velocity  
8 was at minimum closer to wall locations due to the no slip boundary condition. Recirculation  
9 region was observed largely in the interior, and to some extent close to the inlet in the first  
10 flocculation chamber as shown in Fig. A(1). Section Y-Y had an overall velocity magnitude less  
11 than 0.05 m/s.

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14  
 15 Fig. A(1) Contour of the predicted velocity magnitude for sections X-X and Y-Y in the flocculation chambers-1 and 2 at a plant  
 16 inflow rate of 90 MLD.  
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