mangrove, untuk meregenerasi mangrove yang sudah berusia tua sehingga mangrove sebagai *border* dan penyerap akumulasi pencemaran di stasiun 4 tetap terjaga, serta bisa dilakukan pembangunan tanggul sebagaimana di stasiun 3 karena banjir seringkali meluap hingga daerah pemukiman.

3. Bagi Masyarakat

   Pengetahuan kondisi Sungai Tuntang dari masa ke masa menjadi informasi yang penting bagi masyarakat untuk bisa memulai partisipasi dalam mengelola dan memelihara ekosistem sungai. Masyarakat di stasiun 1 bisa memberikan kontribusi mengurangi pembuangan limbah ke sungai, dengan cara bisa membuat pembuangan terpadu, mengingat juga terdapat aktivitas pasar. Masyarakat di stasiun 2 bisa menerapkan IPAL yang diintegrasikan ke saluran rumah tangga, agar buangan limbah yang menuju badan air dapat berkurang akumulasi pencemarannya. Masyarakat di stasiun 3 bisa melakukan penanaman untuk peremajaan vegetasi, untuk mencegah luapan banjir masuk ke daerah pemukiman. Masyarakat di stasiun 4 dapat mengurangi buangan limbah tambak dan kapal dengan melakukan pemeliharaan mangrove, pembuatan tumpang sari di sekitar tambak, dan mengurangi buangan limbah ke badan air.

5.3 Keterbatasan Penelitian

Penelitian ini akan lebih sempurna apabila dalam pengolahan data memiliki tambahan pengukuran umur sedimen untuk mengetahu *time series* perubahan status trofik di hilir Sungai Tuntang. Pengembangan penelitian berikutnya akan berusahan untuk mengukur variabel Si untuk mengetahui kandungan silika di sedimen, klorofil dan kedalaman *secchi disk* untuk mengukur *Trophic Level Index* (TLI) di perairan. Perbedaan antara pasang surut atau musim juga akan dipertimbangkan guna memperoleh data yang lebih akurat dalam perubahan lingkungan.

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