

Rejets urbains par temps de pluie et qualité microbiologique des milieux aquatiques

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En France, de nombreuses agglomérations utilisent des systèmes d'assainissement unitaire où eaux usées et eaux pluviales sont collectées et évacuées vers des systèmes d'épuration (Passerat et al., 2010). Cependant, lors de fortes pluies, des dispositifs de « surverse » appelés déversoir d'orage (DO), conçus pour éviter le débordement des stations d'épuration et l'inondation des habitations et voiries, rejettent eaux usées et pluviales dans les cours d'eau naturels. Ces rejets de DO peuvent transformer une petite rivière en collecteur d'eaux usées « naturel », véhiculant déchets fécaux, matières solides et particules infectieuses.

De par ses activités récréatives et professionnelles, l'homme peut être exposé à des eaux contaminées par des rejets par temps de pluie. Des études épidémiologiques ont montré un risque plus élevé de contraction de gastro-entérite suite à une exposition à des eaux de baignade contaminées par des déchets fécaux (Prüss et al., 1998; Zmirou et al., 2003; Wade et al., 2003). Ces études ont contribué au développement de modèles d'évaluation quantitative des risques microbiens (QMRA) après intégration de données concernant les relations avec les concentrations en agents pathogènes ou bactéries indicatrices de la contamination fécale (Zmirou et al., 2003; Ashbolt et al., 2010; Soller et al., 2010). Ces modèles doivent aujourd'hui être alimentés par des jeux de données permettant d'affiner l'estimation des probabilités d'infection en fonction des paramètres environnementaux pouvant affecter l'appréciation des relations dose-réponse. Des facteurs site-spécifiques intégrant la complexité écologique des zones d'exposition aux organismes pathogènes et une différenciation des sources doivent être pris en compte pour obtenir une bonne évaluation des risques (Ashbolt et al., 2010).

Les études abordées dans cette note d'actualité scientifique présentent des jeux de données permettant une meilleure appréciation des risques d'exposition aux agents pathogènes et des probabilités d'infection lors d'une utilisation des masses d'eau à des fins récréatives.

Impact d'un événement intense de rejets d'eaux par temps de pluie par un déversoir d'orage sur la qualité microbiologique de la Seine

Passerat J, Quartara NK, Mouchel JM, Rodheir V, Servais P. Impact of an intense combined sewer overflow event on the microbiological water quality of the Seine river. *Water Res.* 2010; 45: 893-903

Analyse

Une analyse comparative de la qualité microbiologique d'un cours d'eau par temps sec et lors d'un événement de rejets de déversoir d'orage (DO) par temps de pluie, est présentée dans cet article (Passerat et al., 2010). L'événement de déversement analysé a eu une durée de 6 heures. La stratégie d'échantillonnage et les volets météorologiques visaient à définir la zone d'impact, en termes de km, d'un DO, le rôle des matières en suspension dans le transport des bactéries indicatrices de contaminations fécales, et l'impact relatif des eaux usées sur leurs concentrations dans les rejets d'un DO. Douze séries d'échantillons d'eaux rejetées par le DO, et des eaux de quatre secteurs de la Seine répartis sur 25 km, dont 1 en amont du DO et 3 en aval, ont été analysés. Des prélèvements d'eau de la Seine et d'eaux usées par temps sec ont servi de référence. La conductivité a été utilisée comme

indicateur des proportions d'eaux usées et pluviales rejetées par le DO. Les eaux usées ont constitué 10 % en moyenne, et 40 % lors des 30 premières minutes, des rejets du DO. De façon similaire, les concentrations en matière en suspension (MES) des eaux rejetées par le DO suggèrent des apports extérieurs en provenance des eaux pluviales de l'ordre de 86 %. Cependant, lors des 30 premières minutes de rejets, les fortes concentrations en MES observées étaient plus probablement reliées à une remise en suspension de dépôts présents dans le collecteur d'égout. Les concentrations en indicateurs fécaux ont également suivi ces tendances, avec des concentrations plus élevées en début de période de rejets et des concentrations variant en fonction du mélange Eaux Usées/Eaux Pluviales. Sur la période de rejets, environ 10^{11} E. coli ont été déversées dont 77 % étaient adsorbées sur les MES. Selon les auteurs, la remise en suspension des dépôts (sédiments) du réseau unitaire aurait contribué à hauteur de 45 % et 65 % de la charge en E. coli et en entérocoques intestinaux, respectivement. Les concentrations en bactéries indicatrices de contaminations fécales dans les eaux de la Seine, lors de l'événement de rejets du DO, ont augmenté d'environ un log entre l'amont et l'aval du DO, démontrant un impact significatif du DO. Les concentrations pour les eaux collectées jusqu'à une distance

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