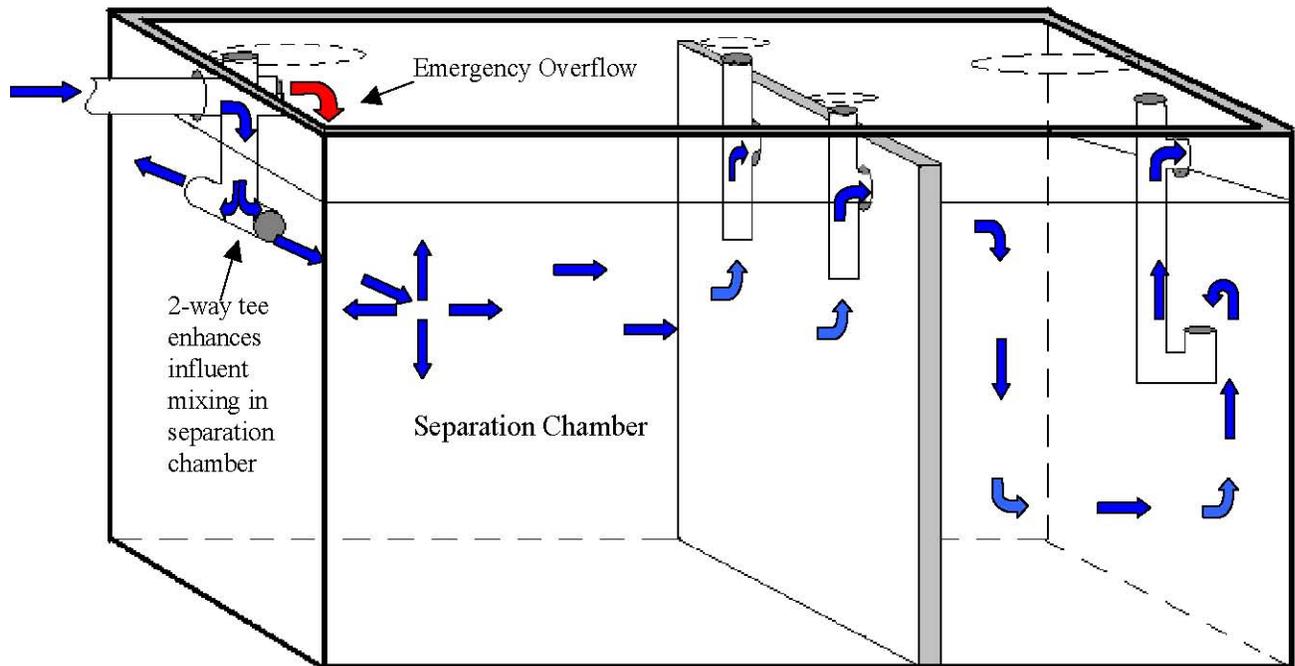


GREASE SEPARATION DEVICE WITH ENHANCED DESIGN AND FLOW DISTRIBUTION



Created by:
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Mixing in a tank occurs when the influent stirs previously separated materials. Separation of oils and solids can't occur in mixing zones. To achieve maximum separation it is necessary to rapidly slow the velocity of the influent, and spread it out to utilize all of available tank cross-section. Inlet tee design that spreads influent flow increases travel time that water must take on its path to the outlet tee. An increase in time is necessary for maximum interceptor performance. Oil globules are offered a better chance to separate if the hydraulic residence or retention time (HRT) is increased. Easing water into taking a longer path through the trap on its way to the outlet assures longer HRT. Longer HRT also promotes better solids settling.