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COURSE # PS004091 - Stormwater BMPs/ Hydrodynamic Separators

Objective

To advise the engineering community on stormwater regulations and proper design and sizing of stormwater ProBest Management Practices (BMP's). We would like to explain the design practices and certification process behind Hydrodynamic separators so that engineers may adequately comply with the Clean Water Act of 1972.

At the end of the power point presentation there will be a Q and A session to demonstrate and emphasize key points as well as a time for engineers to demonstrate what they have learned.

Procedure

First we want to explain why stormwater designs are needed. During this we will emphasize the Clean Water Act of 1972 and its requirements, give examples of BMP's and concentrate on one in particular, the Hydrodynamic separator. We will show how to properly size and design for this BMP, we will explain where it is required and when it is required. We will explain the scientific principal behind it (Navier-Stokes) and how this leads to cleaner stormwater. During this explanation, we will expose the participants to many "terms of the trade" for which they can familiarize themselves. We will explain that typically the first step is to preliminary size a unit for the purpose of supplying a budgetary cost. The purpose for this step is because a minimal amount of information is needed to arrive at this point and it gives the engineer an idea of the overall cost. We will introduce calculations and formulas for determining this information. The next step is design. We will outline the proper information needed to supply the client with an appropriately sized unit. We will then introduce the calculations and formulas used to properly size the Hydrodynamic Separator. Lastly, we will explain how to check the design once the unit is selected (i.e. backwater calculations and upstream flooding). We will explain the difference between field testing and Lab testing and how each have an affect the test data. We will explain how to read testing data and what to look for so that the best product can be specified for each particular job. We will explain how temperature, particle size, and collection methods affect results.

Lastly, we will explain the operation of gravity oil/water separators and coalescing oil/water separators and how they compare to the EPA requirements.

Once all the material has been presented, we will start the question and answer period.

Contact us today to schedule your webinar/seminar.

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