

Cedar Falls Division 704 Enterprise Drive Cedar Falls, IA Phone: 319 - 277 - 2401 or 1 - 800 - 750 - 2401

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Your PO #: \_\_\_\_\_ Company: SUE SCHAULS CONSULTING Send Report To: SUE SCHAULS Invoice To: Address: 2214 Regal Ave Quote #: Stormwater City/State/Zip Code: Waterloo, IA 50702 Project Name: Telephone Number: Cell: **319-290-7843** Email Address for Reports to be sent: schauls3@mchsi.com Sampled By: (Print Name) Project Number: \_\_\_\_\_\_ (Signature) Project Manager: Yes Are these samples for NPDES Compliance? No Preservative Matrix Analyze For: 42SO4 Plastic (Yellow & White Label) 42SO4 Glass(Yellow & White Label) None (Black & White Label) of containers shipped Fotal Suspended Solids Phosphorus, Total Date Collected ime Sampled Oil & Grease Composite Stormwater Grab COD BOD Ϋ́ Sample ID Notes 2 X Χ Χ Χ Composite 4 Χ 1 2 Χ Χ Х Grab NOTES: field pH:\_ Relinguished by: Date Received by: Date Relinguished by: Date Time Date COC Seals Present and Intact? Yes No Laboratory Comments: Received for TestAmerica by: Shipped via:

## **Storm Water Sampling Made Easy**

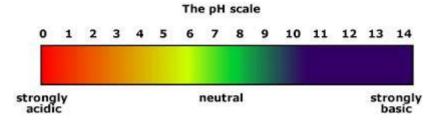
lowa auto salvage yards with more than 250 vehicles in the yard are required to sample storm water (rain) runoff for parameters listed below. Collect and submit rainfall samples to a laboratory for analysis annually. Retain a copy of the report with the Storm water Pollution Prevention Plan (SWPPP). It is not required to submit the report to the DNR but it must be maintained on-site in the event an inspector requests to see it.

There are no regulatory limits on the values of test results, only that the samples are taken and analyzed. An analytical laboratory with the capacity to test storm water may conduct the testing procedures. An arrangement has been made with TestAmerica to conduct the samples through Sue Schauls that will ensure accuracy in the testing procedures using the parameters required and reporting data accurately.

## Collect the Sample

Collect a representative **grab sample and a composite sample** of rain water flowing off the property (outfall location).

NEW → You must take a field pH sample using the pH strips included in the sample kit. Take the strip out of the container and put storm water in the container then dip a strip. **RECORD the value** corresponding to the color of the strip as indicated on the bottle, 7.0 is neutral (the desired value) **on the Chain-of-Custody form**.



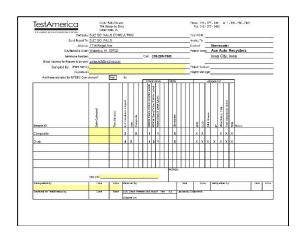
**STEP ONE:** In the first hour of a rainfall of significance (about 2 inches) using the storm water kit (cooler) received from TestAmerica, collect water in a clean cup and fill the bottles marked "composite" 1/3 full then fill all the bottles marked "grab" completely full.

**STEP TWO:** If at least 15 minutes have passed, then fill the composite sample bottle another 1/3 full.

**STEP THREE:** Wait 15 more minutes and fill the bottles the rest of the way full.

**STEP FOUR:** Fill out the form or **Chain-of-Custody paperwork** with your name, the name of the facility where the sample was taken and the **date and time** the sample was taken. Sign the form and place it in a plastic baggie in the cooler.

A separate bag is included for ICE!



## STEP FIVE:

**Deliver or ship the collection kit to TestAmerica** in CEDRA FALLS, IA using the included shipping label and prefilled CHAIN OF CUSTODY.

## ADD ICE TO THE SAMPLE KIT IF IT WILL NOT BE DELIVERED THE SAME DAY (An ice bag is included)

In about two weeks you will receive a laboratory report and a data interpretation from Sue.

- 1) A **grab sample** is a one-time sample that represents the discharge in the beginning of the rainfall event. The grab sample must be taken in the first hour of the discharge. The laboratory recommends taking a 3000 milliliters (ml) sample (about two quarts) to ensure enough water to perform all tests is available.
- 2) A time-weighted **composite sample** is taken at timed intervals in equal amounts. The composite sample is taken as a combination of (at least three) small samples (called aliquots) taken throughout the duration of the discharge (for at least three hours), with each small sample being separated by at least 15 minutes. The laboratory recommends taking 300-1000 ml at each sample so that the total amount of the composite sample is 3000 ml (about two quarts) to ensure enough water to perform all tests is available.



Both sets of samples, the grab and the composite, must be tested for five parameters:

- five day biochemical oxygen demand (BOD);
- chemical oxygen demand (COD);
- total suspended solids (TSS);
- total Kjeldahl nitrogen (TKN);
- total phosphorus;

The grab sample must be tested for two additional parameters:

- ✓ oil and grease:
- ✓ pH;

The Sample Collection Kit will include:

2 Large Amber Glass - Sulfuric Acid (H<sub>2</sub>SO<sub>4</sub>) Preserved

for Oil & Grease GRAB sample

2 Quart Plastic - NO TREATMENT

One each for BOD & TSS Composite & BOD, TSS & pH Grab samples

2 Quart Plastic - Sulfuric Acid (H<sub>2</sub>SO<sub>4</sub>) Preserved

One each for COD, TKN, PO<sub>4</sub> Composite & COD, TKN, PO<sub>4</sub> Grab samples

Automotive salvage yards have particular concerns for adding pollutant to storm water runoff due to the sheer number of vehicles present in a yard at any given time. Effective pollution prevention of these storm water pollutants is accomplished through choosing the most applicable Best Management Practice (BMP) as identified in the Storm Water Pollution Prevention Plan (SWPPP) developed as part of the storm water permit requirements.