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Static Sheen Test Kit

Part No. 295-50

Instruction Manual

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Ver. 2.0

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Components

#153-12 Glass Graduated Cylinder; 100 mL × 1 mL
#153-40-5 Disposable Pipette; 25 mL; Qty: 24
#153-51-5 1,000 mL Beaker; Glass
#153-51-6 1,000 mL Beaker; Polyethylene
#153-68 Disposable Weight Boat; Medium; 78 × 78 mm; Qty: 24
#154-50 4" Spatula
#295-50-1 Dishpan; 18 qt
#295-50-2 Trashbag; 30 gal
#297-28 5-Gallon Pail with Lid

Optional:

#153-53 Magnetic Stirrer with Stir Bars; 6" Diameter × 3" Height; 200 -
2,500 RPM; 120 Volt
#166-06 Triple Beam Balance

Sample Collection

Sampling containers must be thoroughly washed with detergent, rinsed a minimum of 3 times with fresh water, and allowed to air dry before samples are collected.

For each type of sample, fill 1 sample container half way. Samples must be tested within 1 hour of collection.

Liquid Samples:

- Drilling Fluid – Collect once per day at the shale shaker after the cuttings have been removed.
- Deck Drainage – Collect from the holding facility prior to discharge.
- Well Treatment Fluids – Collect from the holding facility prior to discharge.

Solid Samples:

- Drill Cuttings – Collect from the shale shaker screens prior to the addition of any washdown water. Collect one sample each day that drill cutting discharge occurs.
- Produced Sand – Collect from each type of solids control equipment prior to the addition of any washdown water. Collect one sample each day that produced sand discharge occurs.

Test Procedure

Test Container:

Line the test container with a disposable liner and then fill the test container to within ½" of the top with ambient receiving water. The temperature of the test water should be maintained as close as possible to the temperature in the receiving water, not room temperature. Dispose of the liner after each test.

Sample Preparation:

Liquid Samples – Fill and then discharge a disposable 25 mL pipette with the well-mixed sample. Now, refill the pipette and transfer 15 mL of sample to the test container. The sample must be discharged 1 cm below the surface of the ambient receiving water in the test container. Use the pipette to stir the ambient receiving water and sample mixture. Dispose of the pipet after each test.

Solid Samples – Tear a plastic disposable weighing boat. Use the stainless steel spatula to weigh out 15 grams of the well-mixed sample. Now immerse the weighing boat in the ambient receiving water in the test container and scrape the weighing boat with the spatula to transfer any residual material to the test container. Use the spatula to stir the ambient receiving water and sample mixture. Dispose of the weighing boat after each test.

Observations:

Observations must be made no later than 1 hour after the test material (sample) is transferred to the test container. The surface of the test container should be viewed from at least 3 sides at viewing angles of approximately 60° and 30° from the horizontal. Observations should be made in a well-lighted area under fluorescent lighting if possible. The entire surface of the test container must be illuminated. The test container must not be disturbed prior to or during observation.

Demonstration of Free Oil:

Detection of a silvery or metallic sheen, gloss, color, iridescence, increased reflectivity, or an oil slick on the ambient receiving water surface in the test container shows the presence of free oil.

If an oil sheen or slick occurs on less than half of the test container surface area immediately after the sample is added to the ambient receiving water, continue observations for one hour. If the sheen or slick increases in size and covers more than half of the test container surface area within the one-hour observation period, the discharge of the tested material shall cease. Also, analyze a sample of the tested material for total aromatic hydrocarbon content and the presence of diesel oil as required by the permit.

If the sheen or slick does not increase in size to cover more than half of the test container surface area within the one-hour observation period, discharge may continue and additional testing of the material is not required.

If an oil sheen or slick occurs on more than half of the test container surface area immediately or within 1 hour after the sample is added to the ambient receiving water, the discharge of the tested material shall cease. Also, analyze a sample of the tested material for total aromatic hydrocarbon content and the presence of diesel oil as required by the permit. The material causing the sheen or slick may be retested. If subsequent tests do not result in a sheen or slick covering greater than one-half of the surface area of the test container, discharge may be reinitiated.