

DOCUMENT MANAGEMENT SYSTEM

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Doc# NSCS-M-P-7091-04
 Title: Settleable Solids Test
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 Auth:
 Desc: Settleable Solids Test
 Loc: Midwest - Utilities-Midwest - Plant Maintenance-Midwest-Gary Works

PURPOSE: The purpose of this test is to indicate the volume of settleable solids in the sedimentation tanks. The physical condition of the sample can be examined to predict treatment plant performance. An example of a high-quality sample is one that has solids that settle and compact rapidly, leaving a clear supernatant and is free of floating debris.

STEPS

Testing Schedule

PROCEDURES

Conduct settleable solids test according to the test schedule shown below:

Sample	Sample Type	Frequency
East Sedimentation Basin	Grab	4 x Turn
West Sedimentation Basin	Grab	4 x Turn

Test Procedure

The settleable solids test must be performed as soon as possible after the samples are secured.

1. Obtain a sample from each sedimentation basin sludge pump.
2. Pour 1000 ml of sample into a 1000 ml Imhoff cone.
3. Read Imhoff cone after 60 minutes.

Control Range

After performing the test, adjust the sludge pumping rates, both return and wasting, as needed. To adjust the sludge pumping rate and to determine the proper control ranges see SOP NSCS-M-P-7091-12, Cross Collectors and Sludge Pump Rates.

Reporting

Report all 60 minute settleable sludge readings in “percent” on the Final Treatment Plant Operating Report, 7091-01.

If any problems occur, notify Supervisor.