

# Dewatering Box – Bucket Test Kit

- The following procedure describes an appropriate dewatering field test that may be performed to predict the suitability of the application of passive gravity dewatering technology (dewatering boxes). This test is performed to determine if the desired outcome for the efficient separation of solid/liquid slurries is practical and achievable.



# Dewatering Box – Bucket Test Kit

- Each test kit requires a 5-gallon paint bucket, a strainer or colander & 2'x2' square samples of each filter media.
  - 3.5 oz. NWPP Cloth Filter (~100 - 130+ micron)
  - 6.0 oz. NWPP Cloth Filter (~80 - 100 micron)
  - Screen Weave Knit Mesh Filter
- Additional samples available upon request.



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- Strainer is installed and supported by the rim of each test bucket.
- The strainer provides support for the filter media, while creating void space for water flow.



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- Place the 2'x2' sample filter media into the suspended strainer.
- Use the actual filter media type cloth anticipated for your project.





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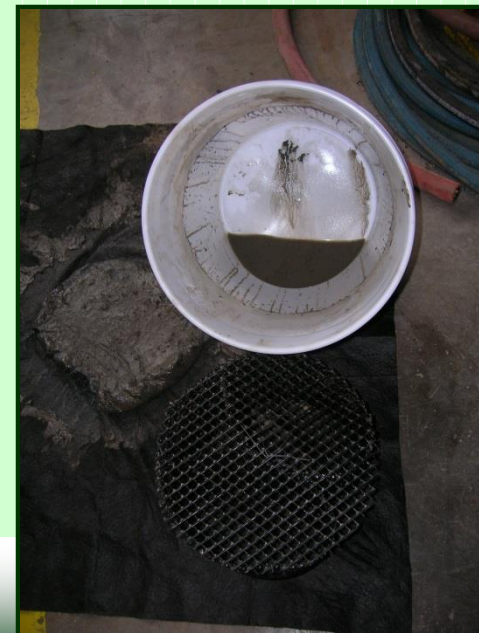
- Place or pour approximately a 1<sup>+</sup> gallon sample into filter-lined test kit.
- Test should be performed at client's facility to eliminate waste handling and disposal issues.



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- Observation
  - Observe sample performance over given period of time (expect Days to Weeks!) to determine whether material is conducive to passive gravity dewatering. Ensure sample material does not blind filter media.
  - Observe the quality of the dewatered sludge & of the collected filtered effluent.



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- Results
  - If the filtered effluent quality is inadequate based on project requirements, perform additional vacuum filtration tests to improve quality of the effluent.
  - Make recommendations for additional filtration equipment to client based on the results of the combined procedures to form a treatment train.



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