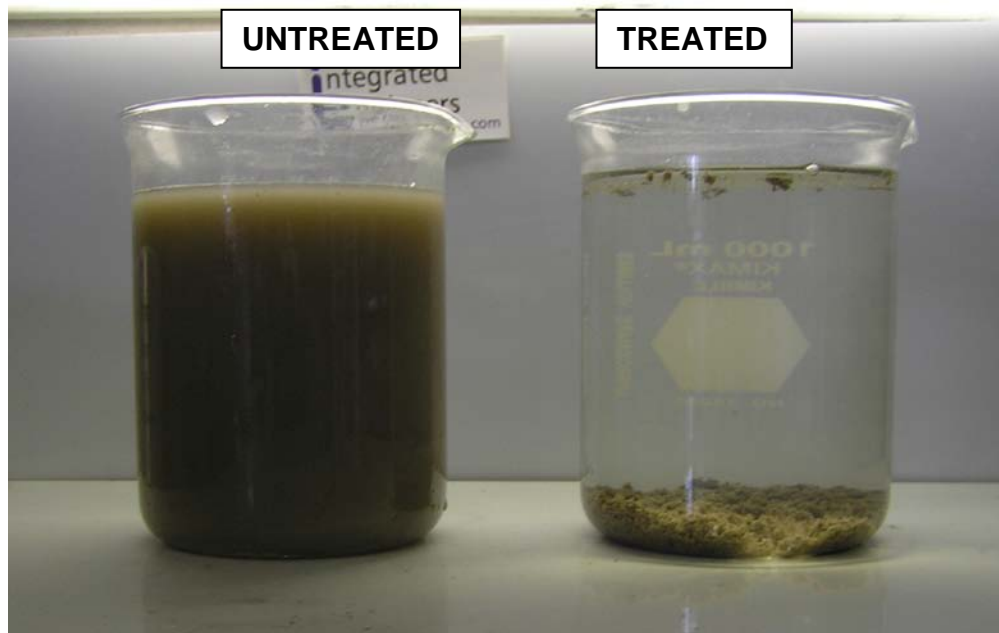


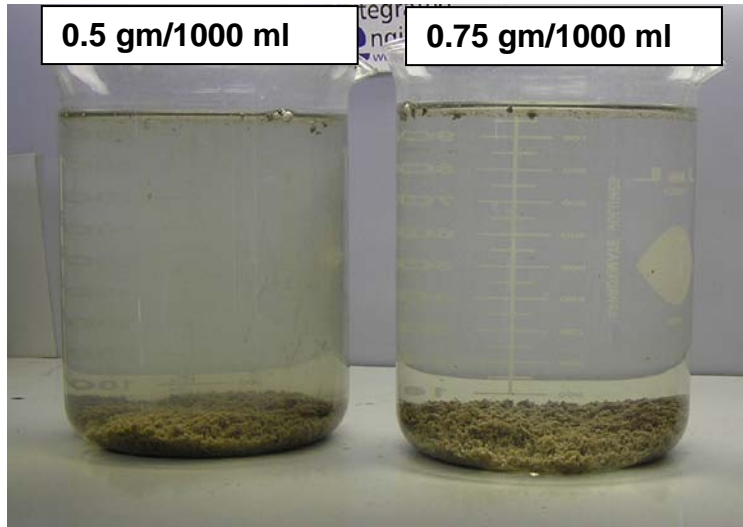
Potato Flume Water

The wastewater sample that was received from a potato processing facility. The facility utilizes water in a flume to transport potatoes. The resulting flume water has high levels of suspended solids. The flume water from the facility was tested with the Floccin K and it treated well at a dosage of 0.75g/1000 ml which equates to a dosage of 6.26 lbs/1,000 gallon.

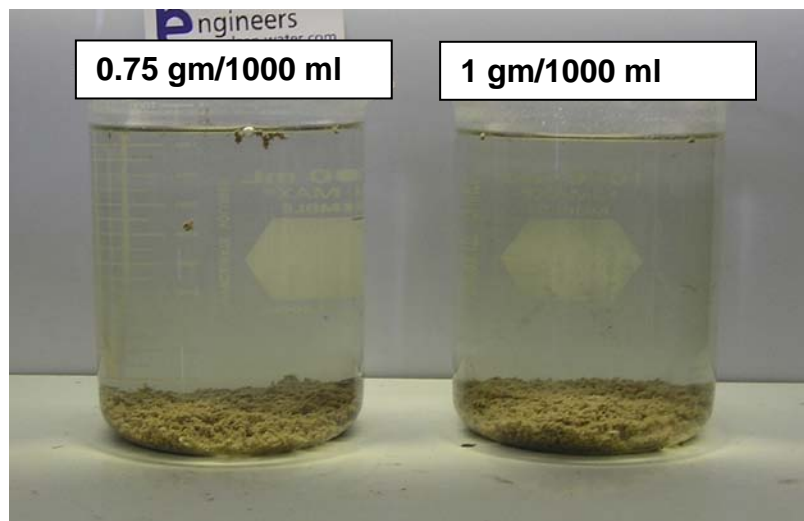
A 1,000ml beaker filled with the water sample was used to conduct the treatability; the starting pH was recorded at 6.3. Floccin K was used for testing. 0.75 grams of Floccin™ K was added to the 1,000 ml beaker containing the wastewater. Flocculation occurred around 30 seconds of mixing and after 3 minutes of mixing, the beaker was removed from the mixer and the solids were allowed to settle. The treated water had very low turbidity. The results are shown in the photos below:



The water was tested with different dosages of Floccin™ in order to observe the clarity of the water at different dosages. The water was treated with 0.5 grams and flocculated well but the treated water was slightly cloudy. Treating with 1 gram of Floccin™ K produced results that were indistinguishable from the water treated with 0.75 grams.

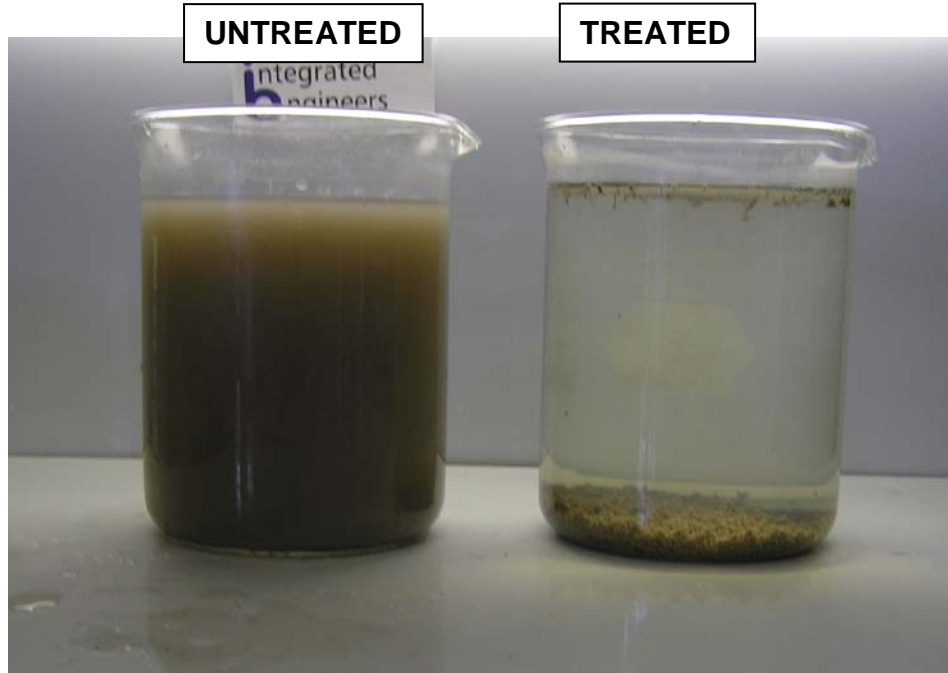


Good flocculation was achieved with 0.5 grams Floccin K in a 1000ml beaker however the resulting treated water had higher turbidity than the water treated with higher dosages.



There was no perceivable improvement in water clarity for water treated at higher dosages than 0.75 gm/1000ml

The water from lagoon 1 was treated with Floccin™ K and it treated well with 0.5 grams of Floccin™ K in a 1,000 ml beaker. This equates to 4.17 lbs/1000 gallons. Flocculation began after about 30 second and after 3 minutes of mixing the solids were allowed to settle and the settling occurred quickly.



The water from lagoon 2 was treated with Floccin™ K and it treated well with 0.5 grams of Floccin™ K in a 1000 ml beaker which equates to 4.17 lbs/1000 gallons. Flocculation began after about 30 second and after 3 minutes of mixing the solids were allowed to settle and the settling occurred quickly. The results are shown in the picture below.

