

Hogelin, Thomas G.

From: Dave Nicholson <dknicholson@q.com>
Sent: Wednesday, May 17, 2017 10:10 AM
To: Hogelin, Thomas G.
Cc: Johnson, Derek S.
Subject: Evaluation of Nutrient Levels for the J-13, O-06, and I-31 Landfarms

Tom

For the J-13, ammonia is non-detect and nitrate is at 27 mg/kg. Total nitrogen is slightly less than the ideal concentration of 30 mg/kg. Ortho-phosphate is present at 20.7 mg/kg, or approximately the ideal concentration of 20 mg/kg. The ratio of organic carbon, nitrogen, and phosphorous is 9,593:10:7.6, indicating a fairly good mix of nitrogen and phosphorous. Apply nitrogen fertilizer at one-half the previous rate to this landfarm this year.

For the O-06, ammonia was not detected and nitrate is at 52.7 mg/kg. Total nitrogen is about 1.75 times the ideal concentration. Ortho-phosphate is present at 64.4 mg/kg, or 3.2 times the ideal concentration of 20 mg/kg. The ratio of organic carbon, nitrogen, and phosphorous is 6,490:10:12.2, indicating excess phosphorous. No fertilizer should be applied to this landfarm this year.

For the I-31, ammonia was not detected and nitrate is at 97.5 mg/kg. Total nitrogen is about 3.25 times the ideal concentration. Ortho-phosphate is present at 180 mg/kg, or 9 times the ideal concentration of 20 mg/kg. The ratio of organic carbon, nitrogen, and phosphorous is 3,415:10:18.5, indicating excess phosphorous. No fertilizer should be applied to this landfarm this year.

For all three landfarms, fulvic/humic acid may help nutrient bioavailability as we have discussed.

Dave

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