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June 22, 2009

Gary Houston
City of Nashville
3 Main
Nashville, KS 67112

Dear Gary;

As you requested, I conducted a sludge profile of your city's wastewater stabilization ponds on June 18, 2009. The enclosed report summarizes my findings.

We took 16 measurements in the middle (primary) cell. The average sludge depth in this cell was 6.88 inches. This cell was being operated at a depth of four feet. The loss of capacity due to sludge accumulation is 14.32 percent. The depth of heavy sludge is from two to four inches. I recommend that you raise the level in this cell to operate at a depth of five feet. This can be done using the slide gates in the structure between cells 1 and 2. This can help eliminate odors and reduce some turnover in the fall and spring.

I do not believe sludge removal is warranted given the limited amount of heavy sludge in the lagoon. Sludge removal is usually only necessary when a system fails to meet discharge permit limits or when the system has constant odor problems. The odors will usually only occur when approximately 25 percent of lagoon capacity is lost due to sludge accumulation. Other factors include system design and capacity.

Please call if KRWA can be of any further help or provide additional information.

Sincerely,

Charlie Schwindamann
Wastewater Tech

CS: ejr
Enclosure
C: John Goetz, KDHE, Wichita

TOP IS NORTH

CENTER CELL

6"	8"
6"	6"
8"	8"
6"	8"
6"	8"
6"	6"
8"	6"
8"	6"