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March 8, 2010

Brian McCarty
City of Hardtner
PO Box 217
Hardtner, KS 67057

Dear Brian,

It was a pleasure to assist you with your lagoon system on March 5. The main problem was a plugged pipe from the influent structure to the lagoons. We used some equipment to force water through to open the pipe and push the debris out of the pipe. This appeared to be successful. I recommend that you use it at least once or twice per week for several weeks. This will make sure the debris is removed from the lines. If you purchase equipment and use it quarterly, I believe the city could keep these pipes open and flowing.

I have also added your system to list of those requesting a sludge profile. KRWA provides this service at no charge.

Here is list of the equipment used from USA BlueBook #120 and page numbers. The cost may seem like a lot all at once but add up the cost of hiring service and it will be paid for in a short time. Haynes Equipment had a sale on 2-inch trash pumps; their phone number is 913-782-4926.

I believe I have all parts listed here you should need. Some of this may be cheaper from other vendors and from local farm and home store. I used the USA BlueBook for reference only.

6- to 8-inch Cherne Muni-ball	page 1031, cost \$211.15
part "A" 2-inch cam and grove connector	page 474 cost \$6.14 each
part "C" 2-inch cam and grove adapter	page 474 cost \$20 each
2-inch trash pump with Honda motor	page 1146 cost \$474

I suggest purchasing the air hose and fittings from a farm and home store. Also, you will need a barbed fitting the size of the air hose and size that will screw into the muni-ball. I would get at least 10 feet, which makes it easier to take the plug out with quick connects.

3 feet of 1 1/2-inch galvanized pipe; obtain from local plumber or farm and home store as well as these fittings: one 1 1/2 inch galvanized tee; one 1 1/2-inch galv. plug; one 1 1/2-inch x 3-inch long galv. nipple; one 1 1/2-inch x 2 inch galv. bushing

You can return the equipment I loaned you when we meet at the KRWA conference in Wichita. I am pleased you will be attending as there are many classes that are excellent for new and experienced operators. The exhibition hall has many vendors that have discounts for material and equipment. This is also excellent time to talk to other operators. There are also many sessions for mayors, council members and clerks that will be very informative.

I hope this helps, please call if you have any questions. KRWA appreciates the opportunity to provide assistance to your system and your consideration of support as members.

Sincerely,

Charlie Schwindamann
Wastewater Tech

CS:ejr
c: Bill Smith, Mayor
Chonita Sternberger, City Clerk
Allen Nichols, KDHE, Dodge City