

ORDINANCE NO. 05-53

**AN ORDINANCE ACCEPTING A QUOTE FOR CLEANING
AND INSPECTION OF THE INTERIOR OF WATER TANKS**

WHEREAS, the Village advertised and obtained quotes for the cleaning and inspection of the interior of the Ground Storage and Elevated Water Tanks; and

WHEREAS, there is a defined need to install safety cable on the ladders of both reservoirs; and

WHEREAS, the Public Works Committee met to review the quote and is recommending the work be performed by Liquivision Technology Diving Services for \$7,400.00.

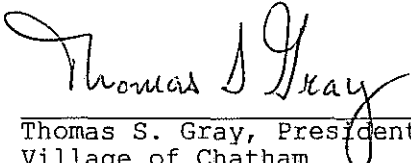
NOW, THEREFORE, BE IT ORDAINED BY THE PRESIDENT AND BOARD OF TRUSTEES OF THE VILLAGE OF CHATHAM, ILLINOIS, AS FOLLOWS:

SECTION 1: That the quote from Liquivision Technology Diving Services for \$7,400.00 is hereby approved.

SECTION 2: The Director of Administration and Utilities is hereby directed to complete the contract, notice of award and notice to precede documents at the appropriate timing.

SECTION 3: This Ordinance is effective upon its passage and approval.

PASSED THIS 25th DAY OF OCTOBER, 2005


Thomas S. Gray, President
Village of Chatham

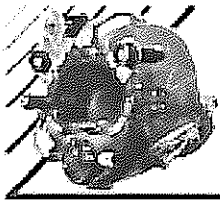
ATTEST:


Pat Schad, Village Clerk

AYES: 4 SCHATTEMAN
MCCARTHY MCGARTHA KAVANAGH
NAYS: 0
ABSENT: 2 HERR BOYLE

PASSED: 10-25-05
APPROVED: 10-25-05





LIQUIVISION TECHNOLOGY DIVING SERVICES

711 Market Street
Klamath Falls, OR 97601
Toll Free: (800) 229-6959
Phone: (541) 883-6473
Fax: (541) 883-1361
www.divingservices.com
liquivision@divingservices.com

Del McCord
Chatham, Village Of
116 E Mulberry St
Chatham, IL 62629

08-16-05
Phone: Wk: (217) 971-1661.
FAX: Fx: (217) 483-3422 .
LVT Ref. #: IL1152405R1-2T

For over 20 years Liquivision Technology has proven itself unsurpassed in the business of cleaning, inspecting and repairing drinking water tanks. State of the art equipment and a staff dedicated to a commitment of excellence assure our place as the leader in the industry. Our patented equipment is the only effective way to remove sediment and biofilm from not only the floors of water reservoirs but the walls as well.

We are pleased to provide you the following firm quotation and outline of the conditions of our services.

Reservoir	Type	Dia. or LxW (Feet)	Hgt. (Feet)	Maximum Calculated Capacity (Gallons)	Surface Area (S.F.)	Cubic Yards Sediment 1" deep	Price for Diver Clean & Inspect	Price for Additional Sediment Per inch	Price for Diver Wall Cleaning
1. 1.2M Gallon Reservoir	OG Steel	71	41	1,213,674	3,957	12.21	\$2,700	\$489	-
2. 750K Gallon Reservoir	125' Tower	55	42	746,064	2,375	7.33	\$2,700	\$293	-
3. Install safety cable on ladder of both reservoirs.							\$3,000	-	-
Subtotal							\$8,400	-	-
Discount (if all work is performed on the same trip while in the area).							(\$1,000)	-	-
Total							\$7,400	-	-
							*Plus sales tax if applicable		
1. Additional sediment charge is a per inch charge for everything over 1 inch deep. It is measured and calculated as an average depth over the floor of the reservoir.									
2. Leak detection/repairs are done on a time and material basis at \$450 per hour plus materials. Repairs are only done with your authorization.									
3. Filtration is charged on a per filter bag basis at \$450 for each. Each bag is approximately 3' diameter by 90' long. Dechlorination is a flat charge of \$50 per tank. Delays are \$200 per hour (see #6 on page 2).									
4. Quote is valid for 90 days from the above date. Once quote is signed the work shall be accomplished at a mutually acceptable date within one year .									

In over twenty years of providing these services we continue to satisfy every customer as if they were our only customer. We are dedicated to accomplishing every job with the utmost professionalism, safety and efficiency. We look forward to working with you.

Please sign below and FAX it back to us with an approximate time frame of when you would like the work done. If you have any questions please give us a call. We look forward to working with you.

Sincerely,

David Larson
Director of Marketing

I find the above and following page of procedures and contingencies acceptable.	
Accepted by:	Date:
Signature:	Title:



LIQUIVISION TECHNOLOGY

Our bids are based on a variety of factors that pertain to the length of time it takes to accomplish our work. The main consideration is the amount of sediment that has to be removed. This of course is mainly influenced by the floor area of the reservoir and the depth of the sediment. The following factors influence the length of time and our ability to accomplish the work.

This quote is based and contingent upon the following: (C = Cleaning, CI = Cleaning or Inspection).

1. That all information provided us is correct, entry hatches are at least 24" in diameter or width, and all reservoirs are accessible by four wheel drive pick-up truck pulling a 14' trailer. (CI)
2. During cleaning reservoir water levels must be kept at or near full capacity unless instructed prior to proceeding with work. (C)
3. Placement and disposal of effluent removed from the reservoir is done at the direction of the District. (C)
4. Quotes for cleaning assume that the sediment is normal material (such as silt, flocculated material, insects, light sand, manganese, rust, etc.) found in potable water reservoirs that is easily removed by our vacuum system. If the sediment is difficult to remove such as large amounts of concrete chips, gravel, rocks, detached coating debris, etc., then add an additional \$450 per hour (over the first hour) for removing this material. (C)
5. Unless specified in quote detail we clean all submerged horizontal and angled berm or sloped surfaces. Vertical surfaces such as the walls can be cleaned but must be listed separately in the quote detail or estimated by the divers upon inspection. We do not clean surfaces that are out of the water. (C)
6. If any information provided to us is incorrect or if any problems exist that inhibit our ability to complete the job on a timely schedule, then we will notify you of the problem and reserve the right to add on to the quote based on our estimate of the additional time it will take to complete the work. Time delays are based on \$200 per hour. This paragraph only applies to any problems that are your responsibility. (CI)
7. Laboratory analysis of water, coating, or debris samples is your responsibility unless specified earlier. (CI)
8. If filtration or dechlorination of discharged effluent is required there are additional charges for cost of materials. The additional cost is listed in line #3 on your quote.

All inspections are done according to ASNT / NACE standards. All of our commercial divers and ROV operators are trained in nondestructive testing and inspection procedures. All disinfection, cleaning and training procedures are in accordance with AWWA standards.

Inspection reports include a high resolution color video tape/CD with real time imprint and a time log indicating where each feature or problem area may be found. The video tape/CD is narrated live by the divers and your personnel (in the control trailer). One copy of a computer generated, printed report is also provided with still color images of the fixtures and problem areas along with a schematic diagram of each tank.

Our inspection procedure includes the following checklist:

- | | | | |
|---------------|----------------------|-------------------------------------|----------------------------|
| • Security | • Exterior Ladder | • Floor and Wall Seams | • Scour / Drain |
| • Man Entry | • Installed Sensors | • Interior Floor and Walls Coating | • Water Taps |
| • Entry Hatch | • Chlorine Injection | • Cathodic Protection | • Exterior Reservoir |
| • Overflow | • Sediment Depth | • Fill (inlet) / Discharge (outlet) | • Manual Level Indicator |
| • Ceiling | • Interior Ladder | • Support Columns | • Exterior Vents & Screens |

For the total time we are inside the tank the job is on video and can be viewed by your personnel. We record any portions of the job that you request, or in your absence, we record the areas of interest listed above with particular attention to areas in need of further maintenance. We are prepared to give you an estimate for and accomplish repairs at the time of inspection.

Our cleaning procedure is accomplished utilizing our proprietary vacuum cleaner, the "LiquiVac™" (Patented). The LiquiVac™ pumps an average of 240 gallons per minute. It has a rotating soft bristle brush that scrubs the floor clean and removes all sediment without creating turbidity in your reservoir. This is the only way to ensure that all biofilm is removed from the interior surfaces without getting any of it mixed into the water column. This system also enables us to clean walls.

For coating repair in steel tanks we use a two part underwater epoxy. Each rust nodule or area of coating defect is wire brushed to bare metal and epoxy is applied over the area. The epoxy chemically bonds to the steel, displaces water, and remains intact with a greater bond than the original coating. All of our repair, sealing and coating materials meet or exceed NSF 60 & 61 standards.

For leaks or cracks in concrete reservoirs we utilize a dye injection leak detection and epoxy repair procedure. The first stage of repair is to perform a leak detection using a FDA approved dye which is injected around suspected cracks or seams. When the leaks are located they are repaired with the appropriate material.

ORDINANCE CERTIFICATE

STATE OF ILLINOIS)
) SS.
COUNTY OF SANGAMON)

I, the undersigned, do hereby certify that I am the duly qualified and acting Village Clerk of the Village of Chatham, Sangamon County, Illinois.

I do further certify that the Ordinance attached hereto is a full, true, and exact copy of Ordinance No. 05-53, adopted by the President and Board of Trustees of said Village on the 25th day of October, 2005, said Ordinance being entitled:

**AN ORDINANCE ACCEPTING A BID FOR CLEANING
AND INSPECTION OF THE INTERIOR OF WATER TANKS**

I do further certify that prior to the making of this certificate, the said Ordinance was spread at length upon the permanent records of said Village, where it now appears and remains.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed the official seal of said Village this 25th day of October, 2005.



Pat Schad
Pat Schad, Village Clerk