

**DROUGHT CONDITION EVALUATION
PUBLIC WATER SUPPLY SYSTEM
VILLAGE OF MASON CITY
JULY 11, 2006**

Mason City, Nebraska, located in Custer County, is situated in the Lower Loup Natural Resources District. The water system is composed of one well. Well #59-1, constructed in 1959, is located in the northeast part of town and typically produces 340 gallons per minute. The village has been operating with one well for many years with the thoughts of developing another well if funding was available. The cost associated with hauling water to this system on a daily basis would be very costly to the village and to the State of Nebraska. The health and well being of the residents of the community could be greatly affected should they lose their only well.

The water table continually decreases during the summer due to natural precipitation shortfalls and associated impacts from nearby irrigation. The Village has imposed water use restrictions, limiting lawn watering to (3) days per week and is monitoring water levels in the wells and in the elevated tank in order to maintain adequate pressures and fire protection capabilities. Mason City has been on the Nebraska Health and Human Services System drought impact report for the past several years. Estimated costs for needed improvements consisting of one well and associated transmission line are as follows:

**Needs Survey for 2006
Preliminary Opinion of Probable Construction Cost**

| Item | Description | Quantity | Unit | Unit Cost | Total |
|----------------------|----------------------|----------|------|---------------------------|---------------------|
| 1 | Municipal Well | 1 | each | \$ 150,000 | \$ 150,000.00 |
| 2 | Test Well | 1 | each | \$ 15,000 | \$ 15,000.00 |
| 3 | Transmission Main | 150 | l.f. | \$ 20.00 | 3,000.00 |
| 4 | Electrical (3-phase) | 1 | l.s. | \$ 5.00 | 25,000.00 |
| 5 | Controls | 1 | l.s. | 20,000 | 20,000.00 |
| | | | | Construction Total | \$213,000.00 |
| Project Total | | | | | \$213,000.00 |

Estimated Costs by: Tagge & Associates,
Consulting Engineers, P.C.
July 11, 2006

Respectfully submitted,

A handwritten signature in cursive script that reads "Jack L. Daniel".

Jack L. Daniel, Administrator
Environmental Health Services Section
Department of Health and Human Services
Regulation and Licensure

JLD/RGF