

CITY OF ITALY

Monitoring Plan

Public Works ID 0706028

Director of Public Works Dean Carrell

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UTILITIES & DISTRICTS
SECTION

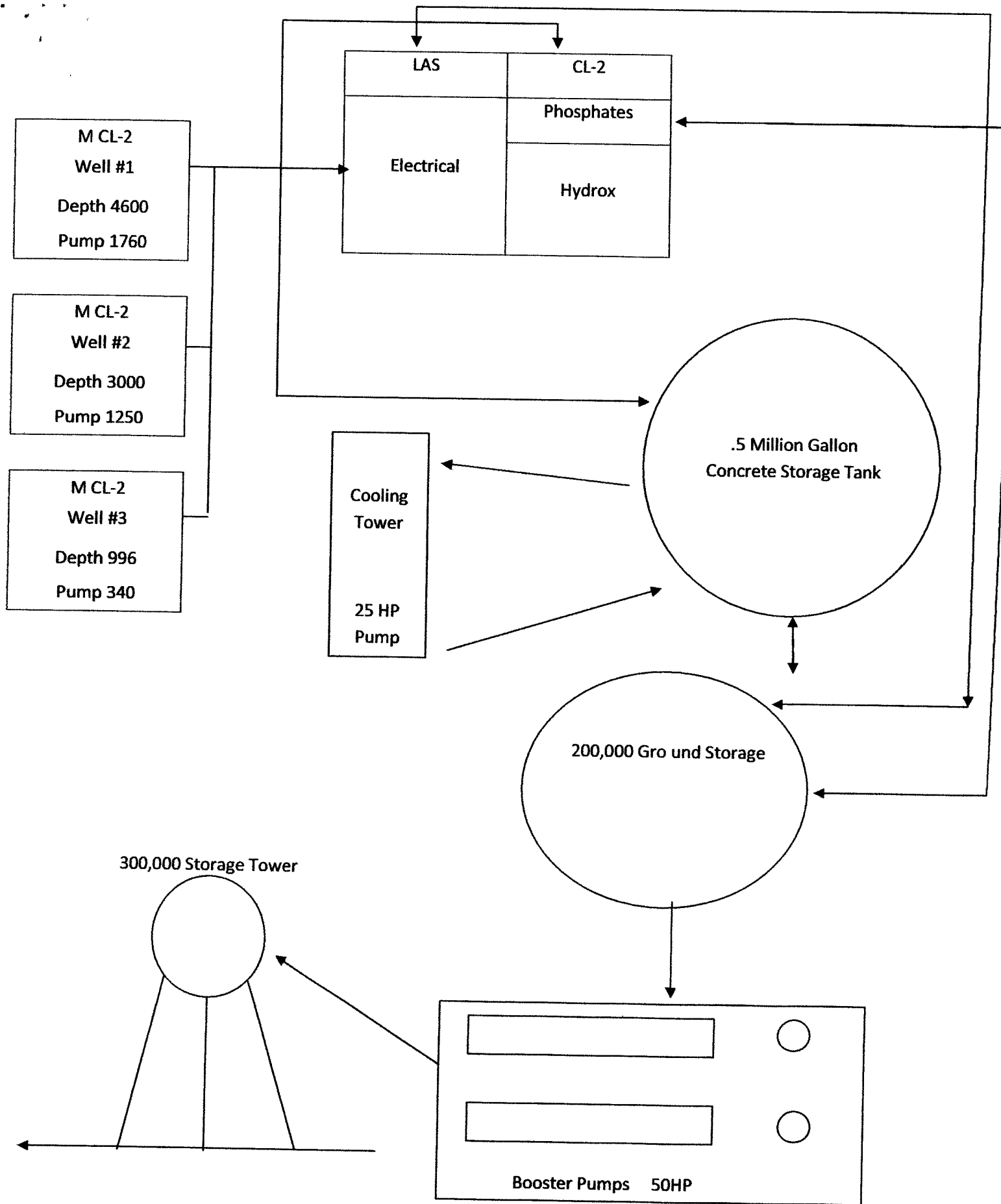
- I. The City of Italy operates a public water system that is ground water based from the Trinity and Woodbend aquifers. The city has a current population of 2160 with 739 connections.
 - a. There are three raw water samplings:
 - i. Well # 1
 - ii. Well #2
 - iii. Well #3
 1. In plant sampling
 - b. The treatment process is as chlorine, LAS, Phosphates, and Hydrox.
 - c. Entry point sampling

Entry	Sample Site	Source	Plant Name
001	Sample Tap at .5 Million Gallon Concrete Storage Tank	Trinity/Woodbine	Wells 1, 2, 3
002	Sample Site at 2,000 Gallon Ground Storage Tank	Trinity/Woodbine	Wells 1, 2, 3
003	Sample Site at 3,000 THS Elevated	Trinity/Woodbine	Wells 1, 2, 3

Table 1

Cell Form and Disinfection Monitoring Sites	
A	516 Waco
B	409 Venice
C	621 Cherie
D	512 Rankin
E	408 S. Ward

Table 2



- II. Disinfectant Entering the Distribution System
 - a. The City of Italy operates vacuum chlorination to chlorinate LMI to LAS, LMI to Phosphates, and positive vent pump to Hydrox the water from the wells.
 - b. The water system delivers water to the customers as chloramines/monochromes residuals.
 - c. The chlorine is in compliance with TECQ's rules by serving an entry of 0.5mg/L total residual.
- III. Distribution Systems Sampling
 - a. Appendix 1 shows the distribution of the system.
 - i. Coli form Samples
 - 1. Two coli form samples are taken monthly at each site and rotated as shown in Table 2.
- IV. Method
 - a. Coli form samples are collected by the City if Italy operator and sent to:

Environmental Monitoring Lab
6145 S. Hwy 171
Hillsboro, Texas 76645
264-582-2622
 - b. The City of Italy follows the rules of TCEQ to ensure there are no repeat samples.
 - i. No repeat following fecal or E. coli
 - ii. No more than one repeat if samples are Coli form positive and none of the repeats are fecal or E. coli positive.
- V. Disinfectant Residual Total Chlorine
 - a. Frequency
 - i. The disinfection residual is measured at the same time every day.
 - ii. Due to the system size (over 250 and less the 5000) the residual is measured every day
 - b. Disinfection Byproducts
 - i. DBP's, TTHM's. HAH's
 - 1. Since the City of Italy is ground water only there is not requirement to test for these DBP's.
 - ii. Lower River Colorado samples each well annually to ensure the City's compliance. This is an area water sampling test.
 - 1. The city is not required to monitor lead or copper levels. TCEQ has informed the City regarding this compliance.
 - iii. The City Does not monitor for Asbestos as TCEQ has not mandated and requirement.

Appendix 1. Distribution Sampling System

