

Town of Cary Pump Station Inspection Sheet



Facility Name: Kit Creek

Inspection Date: 3/10/2010

ID Number: 003

Pump

Type: Submersible
Discharge Diameter: 12"
Control: VFD
Manufacturer: Flygt 5436M
704-504-8804
Wetwell: 10' by 18'-4" 10.8' Deep

Condition: Good
Pump One: 3,905 gpm
Pump Two: 4,136 gpm
Pump Two: 4,110 gpm
Firm Capacity 5,255 gpm
Rep: HD SUPPLY WATERWORKS
Vol: 14,800 gal

Odor:

At the Fence: 0.006 ppm
Odor Control: Bioxide

Wetwell: 14.25 ppm
Condition: Fair

Generator:

Generator: Gregory Poole - Caterpillar
Model 3412

Condition: Good
Volts: 480 amps: 1130

Grinder:

Grinder: Muffin Monster
Bypass Channel and Bar Screen

Condition: Fair

Sound:

At the Fence: 61 dB Gen off

Wetwell: 83 db Pump off
Wetwell: 84 db Pump on

Comments:

- crane has some corrosion
- some dampness in the meter vault
- pump guides in good condition
- discharge piping paint is getting thin, some corrosion
- H2S levels very high
- most pipes have superficial surface rust
- building trim paint is peeling
- chemical room is showing signs of wear, mostly cosmetic

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Kit Creek PS Pump Curve



TEST REPORT

PRODUCT

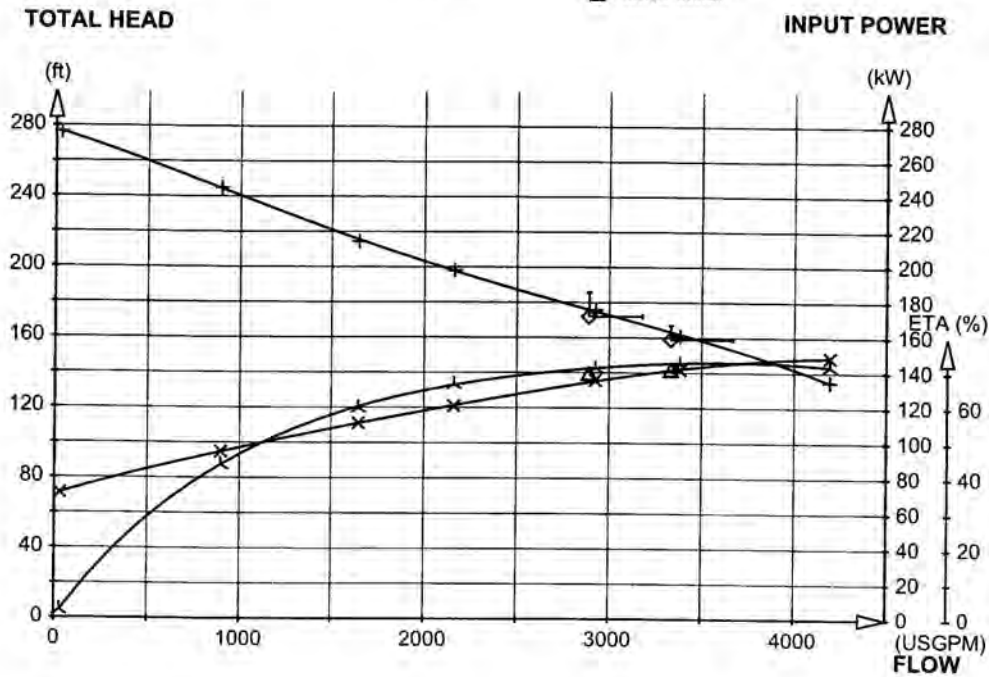
Serial No. 3231.715 0431125		Performance curve No. 63-430		Motor module/type 43-30-4AA	Voltage (V) 460
Base module 000	Impeller No. 621 10 14	Gear type	Gear ratio	Imp.diam/Blade angle 390	Water temp °C 22

TEST RESULTS

Pump total head H (ft)	Volume rate of flow Q (USGpm)	Motor input power P (kW)	Voltage U (V)	Current I (A)	Overall efficiency η (%)
276.50	30.7	71.21	464	125.1	2.25
244.97	897.9	94.77	463	151.4	43.78
214.43	1647.0	111.11	463	170.6	59.96
198.13	2161.9	121.00	463	182.7	66.78
175.65	2926.6	135.71	463	201.5	71.46
160.94	3384.7	141.67	462	209.4	72.54
134.76	4194.2	148.59	461	218.3	71.75

Accepted after HI	Test facility Lindas Sweden	Test date Q2 04-05-10	Time 08:38	Chief tester 5361
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PLOTTED TEST RESULTS Measured point : + = Q/H Duty point : ◊ = Q/H
 X = Q/P □ = Q/P Calculated point : Δ = Q/ETA overall
 Δ = Q/ETA overall 1



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Kit Creek Pump Station



Control Panel



Grinder & Bar Screen



Generator



Splitter Box



Chemical Pump



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Splitter Box



Meter Vault



Meter Vault



Crane Support



Crane Support



Wetwell

