Facility Name: Morris Branch  
ID Number: 019  

Pump  
Type: Submersible  
Discharge Diameter: 18"  
Control: VFD  
Manufacturer: Flygt  
704-504-8804  
Wetwells: Four - 6' by 14’ 6.5' Deep  
Channel: 25'- 8" by 4'-2" 6' Deep  

Condition: Good  

Pump One: 2,886 gpm  
Pump Two: 2,897 gpm  
Firm Capacity: 2,886 gpm  

Gen: Gregory Poole – Olympia  
Model 3412  
Volts: 480  
amps: 1204  

Condition: Good  

Generator: HD SUPPLY WATERWORKS  
704-324-9705  

Odor:  
At the Fence: 0.000 ppm  
Wetwell: 0.218 ppm  

Odor Control: 2 Stage Biofilter/Ferrous Sulfate  
Condition: Good  

Grinder: Muffin Monster  
Condition: Good  

Bypass Channel and Bar Screen  

Sound:  
At the Fence: 58 dB Gen off  
Wetwell: 72 db Pump off  
At the Fence: 72 dB Gen on  
Wetwell: 75 db Pump on  

Comments:  
- some surface corrosion on the stairs bar screen room  
- wetwell shows signs high water  
- signs of a ferrous sulfate spill  
- valve vault damp  
- biofilter lowered the H2S from 0.218 to 0.002 ppm  
- room for two more pumps
## TEST REPORT

### PRODUCT
- **Serial No.:** 3231735 0381173
- **Performance curve No.:** 634390
- **Motor module type:** 43-44-4AA
- **Voltage (V):** 460
- **Base module:** 000
- **Impeller No.:** 621 10 11
- **Gear type:**
- **Gear ratio:**
- **Impeller Blade angle:** 405
- **Water temp. °C:** 26

### TEST RESULTS

<table>
<thead>
<tr>
<th>Pump total head H (ft)</th>
<th>Volume rate of flow Q (USGpm)</th>
<th>Motor input power P (kW)</th>
<th>Voltage U (V)</th>
<th>Current I (A)</th>
<th>Overall efficiency η (%)</th>
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</thead>
<tbody>
<tr>
<td>304.05</td>
<td>39.1</td>
<td>77.90</td>
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<td>142.5</td>
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</tbody>
</table>

### Accepted after
- **Test facility:** Lindes<br />
- **Test date:** 04-01-14<br />
- **Time:** 06:54

### PLOTTED TEST RESULTS

**TOTAL HEAD**

**INPUT POWER**

- Measured point: + = Q@H<br />
- Duty point: ○ = Q@H<br />
- Calculated point: △ = Q/η overall