### Facility Name: Kit Creek

**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:**
- **Capacity:** 3,905 gpm

**Pump Two:**
- **Capacity:** 4,136 gpm
- **Firm Capacity:** 4,110 gpm

**Rep:** HD SUPPLY WATERWORKS

**Vol:** 14,800 gal

**Odor:**
- **At the Fence:** 0.006 ppm
- **Wetwell:** 14.25 ppm
- **Odor Control:** Bioxide
- **Condition:** Fair

**Generator:**
- **Generator Gregory Poole - Caterpillar**
- **Model:** 3412
- **Volts:** 480
- **amps:** 1130

**Condition:** Good

**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
Kit Creek PS Pump Curve

TEST REPORT

PRODUCT

<table>
<thead>
<tr>
<th>Item No.</th>
<th>3231.715</th>
<th>0431125</th>
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</thead>
<tbody>
<tr>
<td>Perform. curve No.</td>
<td>63-430</td>
<td>43-30-4AA</td>
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<tr>
<td>Voltage (V)</td>
<td>460</td>
<td></td>
</tr>
<tr>
<td>Base module</td>
<td>000</td>
<td></td>
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<tr>
<td>Impeller No.</td>
<td>621 10 14</td>
<td></td>
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<tr>
<td>Imp. diam./Blade angle</td>
<td>390</td>
<td></td>
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<td>Water temp/C</td>
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</table>

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 %</th>
</tr>
</thead>
<tbody>
<tr>
<td>276.50</td>
<td>30.7</td>
<td>71.21</td>
<td>464</td>
<td>125.1</td>
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<td>244.97</td>
<td>397.9</td>
<td>94.77</td>
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<td>151.4</td>
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<td>214.43</td>
<td>1647.0</td>
<td>111.11</td>
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<td>170.6</td>
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<td>198.13</td>
<td>2151.9</td>
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<td>175.85</td>
<td>2326.6</td>
<td>135.71</td>
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<td>201.5</td>
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<tr>
<td>160.94</td>
<td>3384.7</td>
<td>141.67</td>
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<td>134.76</td>
<td>4194.2</td>
<td>148.59</td>
<td>461</td>
<td>218.3</td>
<td>71.75</td>
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Accepted after Test facility Test date Time Chief tester
HI Lindas Sweden 04-05-10 08:38 5381

PLOTTED TEST RESULTS

<table>
<thead>
<tr>
<th>Measured point</th>
</tr>
</thead>
<tbody>
<tr>
<td>X = Q/H</td>
</tr>
<tr>
<td>X = Q/P</td>
</tr>
<tr>
<td>X = η</td>
</tr>
</tbody>
</table>

Calculated point: η = Q/E overall

TOTAL HEAD

INPUT POWER

(kW)

(USGPM)
Town of Cary Pump Station Inspection Sheet

Kit Creek Pump Station

Control Panel

Grinder & Bar Screen

Generator

Splitter Box

Chemical Pump