Construction of the PNRS II test facility was started February 15th. Below is a list of items completed to date.

I. **PNRS II Test Facility Construction JTD**

A. Installed Tanks and Accessories
   1. Wooden platform has been constructed
   2. Flowmeters on existing OSTDS system dose pipes
   3. 1050 gallon STE storage tank (Tank 1) and influent pipe
   4. (11) Stage 1 Tanks
   5. (5) Stage 2 Single-Pass Tanks
   6. (4) STE & Recirculation Mixing Tanks
   7. (1) Denite Feed Tank
   8. (4) Recirculation Pump Tanks
   9. Hydro splitter tee, petcock valves, tubing
   10. Geotextile fabric Mirafi FW700
   11. Drain pipe
   12. Potable water line installed and connected to existing system

B. Pumps and Accessories Installed
   1. Installed P2, P3, P4, P6, P7, P8, P9, P14 - Little Giant pumps
   2. P5 – In-situ simulation tanks peristaltic pump drive, (2) 1-channel pump heads
   3. P10 and P11 - Stage 2 peristaltic pump drive, (2) 2-channel pump heads for stage 2 filter, and (1) 1 channel head for glycerol
   4. Installed P4 and P14 pump flow meters
   5. Installed P6, P7, P8, P9 recycle pump flow meters
C. Electrical
   1. A 15 KVA step-up transformer was installed to the existing 208 volt, 3 phase power feeder to increase the voltage to 480 volt, 3 phase to reduce voltage drop in the 700 foot long feeder. A 15 KVA step-down transformer was installed to feed the existing pump system 120/208 volt power. A second 15 KVA step-down transformer was installed to feed our new system 120/240 volt power.
   2. Main Control Panel has been installed.

D. Buildings
   1. The storage shed (8’ x 16’) has been installed near the wooden platform.
   2. The 28’ x 50’ shade cover roof has been installed.

II. Construction Status

The PNRS II pilot test facility construction is substantially complete. Hazen and Sawyer staff conducted a site inspection of the facility on April 26, 2010 and completed a punch list of items for completion by the contractor prior to accepting construction. Storage tank 1 was filled with tap water and all pumps, valves, meters and other equipment were tested. Flow rates were checked, and calibration of flows was begun. The punch list developed is included in Section IV of this progress report. Completion of these items is underway and all items should be complete by mid May.

Start up of the test facility is planned for the week of May 17th. Final calibration of flows to the pilot systems will be completed and the STE supply pump (Pump #1) in GCREC septic tank #2 will be activated, which will then begin supplying wastewater to the system. Water quality monitoring is anticipated to begin in June.

III. Photos Showing Various Components of the Test Facility
1050 Gallon STE Storage Tank 1

Flowmeters for Existing OSTDS System
Wooden Platform North Side

Installing Tanks
Installing Potable Water Line

Mixing Media (Clinoptilolite 8X14 and Oyster Shell)
Media Storage

Gravel at the Bottom of the Tanks
Installing Geotextile Fabric above Gravel at Bottom of Tanks

Installing Media in Tank (UNSAT-EC-3) above Geotextile Fabric
Tamping Media (UNSAT-CL-3)

Installing Sample Piezometers within Stage 2 Upflow Tank (DENIT-LS-2)
Installing Media within 6” x 72” L Stage 2 Filters (DENIT-SU-1)
Storage Shed

New Electrical Transformers
(2) In-situ Filters

(4) Stage 2 Recirc Filters

(4) Stage 1 Recirc Filters

(5) Stage 1 Single Pass Filters

(5) Stage 2 Single Pass Filters

(4) Recirculation Tanks

(5) Stage 2 Single Pass Filters
Metal Building Support Beam & Anchors Installed

Metal Building J Frame Installed
First Roof Panel Installed

Metal Building Roof Panels Almost Complete
Metal Building Support Beams Almost Complete

Lights on Metal Building
UNSAT-IS-1 and 2 Biofilters

Hydrosplitter Flowmeters
Hydro splitter #1 (Single Pass Systems)

Single Pass Systems
Recirculation Systems 1 and 2 (Downstream)

Recirculation Systems - Stage 2 Filters
# IV. Punch List

## PNRS II TEST FACILITY CONSTRUCTION
### CONTRACTOR PUNCH LIST

<table>
<thead>
<tr>
<th>Location</th>
<th>Item</th>
<th>Description</th>
<th>Complete</th>
</tr>
</thead>
<tbody>
<tr>
<td>STE Storage Tank #1</td>
<td>1.</td>
<td>Low Low Float shall be moved to Pump Chamber</td>
<td>04/27/2010</td>
</tr>
<tr>
<td>Pump 6 Discharge Line</td>
<td>2.</td>
<td>Install 1/2&quot; ball valve for flow adjustment</td>
<td>04/27/2010</td>
</tr>
<tr>
<td>Pump 7 Discharge Line</td>
<td>3.</td>
<td>Install 1/2&quot; ball valve for flow adjustment</td>
<td>04/27/2010</td>
</tr>
<tr>
<td>Pump 8 Discharge Line</td>
<td>4.</td>
<td>Install 1/2&quot; ball valve for flow adjustment</td>
<td>04/27/2010</td>
</tr>
<tr>
<td>Pump 9 Discharge Line</td>
<td>5.</td>
<td>Install 1/2&quot; ball valve for flow adjustment</td>
<td>04/27/2010</td>
</tr>
<tr>
<td>UNSAT-IS-1 and 2 Drain Pipe</td>
<td>6.</td>
<td>Seal connection to main drain line</td>
<td>04/27/2010</td>
</tr>
<tr>
<td>DENIT-LS-1</td>
<td>7.</td>
<td>Tighten and seal caps on inlet side (leaking)</td>
<td>05/5/2010</td>
</tr>
<tr>
<td>DENIT-SU-2</td>
<td>8.</td>
<td>Tighten and seal caps on inlet side (leaking)</td>
<td>05/5/2010</td>
</tr>
<tr>
<td>DENIT-SU-1</td>
<td>8.</td>
<td>Tighten and seal caps on inlet side (leaking)</td>
<td>05/5/2010</td>
</tr>
<tr>
<td>HYDROSPANNER #1</td>
<td>9.</td>
<td>Tighten and re-tape cleanout connection (leaking)</td>
<td>04/27/2010</td>
</tr>
<tr>
<td>HYDROSPANNER #2</td>
<td>10.</td>
<td>Tighten and re-tape petcock valve for UNSAT-CL-1</td>
<td>04/27/2010</td>
</tr>
<tr>
<td></td>
<td></td>
<td>connection to Hydro splitter (leaking)</td>
<td></td>
</tr>
<tr>
<td>HYDROSPANNER #2</td>
<td>11.</td>
<td>Tighten and re-tape cleanout connection (leaking)</td>
<td>04/27/2010</td>
</tr>
<tr>
<td>Pump 6 Dose Tank</td>
<td>12.</td>
<td>Tighten and re-tape petcock valve for Recirculation</td>
<td>04/27/2010</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Tank #4 connection to Hydro splitter (leaking)</td>
<td></td>
</tr>
<tr>
<td>Denite Feed Tank (Tank 3)</td>
<td>13.</td>
<td>Glue overflow pipe tee connection to common drain</td>
<td>04/27/2010</td>
</tr>
<tr>
<td></td>
<td></td>
<td>to Denite Feed Tank</td>
<td></td>
</tr>
<tr>
<td>DENIT-LS-4, SU-4, LS-3, LS-2 and</td>
<td></td>
<td>connect to main drain</td>
<td></td>
</tr>
<tr>
<td>SU-3</td>
<td>15.</td>
<td>Provide lid opening for sample tubes</td>
<td>04/27/2010</td>
</tr>
<tr>
<td>Single Pass Stage 1 Biofilters</td>
<td>16.</td>
<td>Install splash plates made of plexiglass</td>
<td>TBC</td>
</tr>
<tr>
<td>UNSAT-IS-1 and 2 Biofilters</td>
<td>17.</td>
<td>Install splash plates made of plexiglass</td>
<td>TBC</td>
</tr>
<tr>
<td>Control Panel</td>
<td>18.</td>
<td>Programming changes to software to revise cycle</td>
<td>TBC</td>
</tr>
<tr>
<td></td>
<td></td>
<td>times to MM:SS input rather than MMM</td>
<td></td>
</tr>
<tr>
<td>Control Panel</td>
<td>19.</td>
<td>Programming change to software to include a reset</td>
<td>TBC</td>
</tr>
<tr>
<td></td>
<td></td>
<td>button to zero all flows, runtimes, etc.</td>
<td></td>
</tr>
</tbody>
</table>