


of nitrifying bacterium diversity in activated sludge: *Nitrosococcus mobilis* and *Nitrospira*-like bacteria as dominant population. Applied and Environmental Microbiology, 64 (8), pg 3042-3051.


## APPENDIX

Appendix A: Temperature recorded in each sampling site of wastewater treatment plant.

<table>
<thead>
<tr>
<th>Temperature, °C</th>
<th>STP1</th>
<th>STP2</th>
<th>STP3</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Influent</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>02-Feb-09</td>
<td>29.4</td>
<td>29.9</td>
<td>30.5</td>
</tr>
<tr>
<td>09-Jun-09</td>
<td>28.8</td>
<td>29.4</td>
<td>30.5</td>
</tr>
<tr>
<td>11-Sep-09</td>
<td>28.6</td>
<td>29.5</td>
<td>30.8</td>
</tr>
<tr>
<td><strong>Aeration</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>02-Feb-09</td>
<td>28.0</td>
<td>29.8</td>
<td>31.6</td>
</tr>
<tr>
<td>09-Jun-09</td>
<td>27.8</td>
<td>30.2</td>
<td>32.0</td>
</tr>
<tr>
<td>11-Sep-09</td>
<td>27.8</td>
<td>29.3</td>
<td>32.2</td>
</tr>
<tr>
<td><strong>Effluent</strong></td>
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<td></td>
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</tr>
<tr>
<td>02-Feb-09</td>
<td>28.4</td>
<td>29.7</td>
<td>31.3</td>
</tr>
<tr>
<td>09-Jun-09</td>
<td>27.8</td>
<td>29.7</td>
<td>31.8</td>
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<td>11-Sep-09</td>
<td>28.0</td>
<td>29.7</td>
<td>31.0</td>
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Appendix B: pH recorded in each sampling site at wastewater treatment plant.

<table>
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<tr>
<th>pH</th>
<th>STP1</th>
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<th>STP3</th>
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</thead>
<tbody>
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<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>02-Feb-09</td>
<td>8.0</td>
<td>8.0</td>
<td>6.0</td>
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<tr>
<td>09-Jun-09</td>
<td>6.0</td>
<td>7.0</td>
<td>5.0</td>
</tr>
<tr>
<td>11-Sep-09</td>
<td>7.0</td>
<td>6.0</td>
<td>6.0</td>
</tr>
<tr>
<td><strong>Aeration</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>02-Feb-09</td>
<td>7.0</td>
<td>6.0</td>
<td>4.0</td>
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<tr>
<td>09-Jun-09</td>
<td>5.0</td>
<td>5.0</td>
<td>5.0</td>
</tr>
<tr>
<td>11-Sep-09</td>
<td>6.0</td>
<td>6.0</td>
<td>5.0</td>
</tr>
<tr>
<td><strong>Effluent</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>02-Feb-09</td>
<td>7.5</td>
<td>7.0</td>
<td>6.0</td>
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<tr>
<td>09-Jun-09</td>
<td>6.0</td>
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<td>6.0</td>
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<tr>
<td>11-Sep-09</td>
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<td>7.0</td>
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<table>
<thead>
<tr>
<th>Parameters</th>
<th>Unit</th>
<th>A</th>
<th>B</th>
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</thead>
<tbody>
<tr>
<td>BOD₅ at 20°C</td>
<td>mg l⁻¹</td>
<td>20</td>
<td>50</td>
</tr>
<tr>
<td>COD</td>
<td>mg l⁻¹</td>
<td>120</td>
<td>200</td>
</tr>
<tr>
<td>Suspended Solids</td>
<td>mg l⁻¹</td>
<td>50</td>
<td>100</td>
</tr>
<tr>
<td>Oil and grease</td>
<td>mg l⁻¹</td>
<td>5.0</td>
<td>10.0</td>
</tr>
<tr>
<td>Ammonia in stagnant water</td>
<td>mg l⁻¹</td>
<td>5.0</td>
<td>5.0</td>
</tr>
<tr>
<td>Ammonia in open water</td>
<td>mg l⁻¹</td>
<td>10.0</td>
<td>20.0</td>
</tr>
<tr>
<td>Nitrate in stagnant water</td>
<td>mg l⁻¹</td>
<td>5.0</td>
<td>10.0</td>
</tr>
<tr>
<td>Nitrate in open water</td>
<td>mg l⁻¹</td>
<td>10.0</td>
<td>10.0</td>
</tr>
</tbody>
</table>