OPERATION AND MAINTENANCE
DOMESTIC WASTEWATER TREATMENT PLANTS

Akyazı Wastewater Treatment Plant

Location
Akyazı, Sakarya / TÜRKİYE

Client
Bank of Provinces

Contractor
MASS

Contract Date
2006

Completion Date
2007

Financial Resource
Abu Dhabi Fund

Scope

Maintenance-repair and operation services of described wastewater treatment plant for 12 months including operational personnel and maintenance staff, disposal of screening and sludge, supply of chemicals, maintenance of electrical and automation system and pumping station and energy supply of the plant.

Plant Description:

Pre-Treatment
• Screening and Pumping Station
• Grit & Grease Removal
• Primary Sedimentation

Biological Treatment
• Activated Sludge System with Surface Aerators
• Secondary Sedimentation

Sludge Treatment
• Sludge Thickening
• Aerobic Sludge Digestion with Surface Aerators
• Sludge Dewatering with Beltpress

Capacity

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Influent</th>
<th>Effluent</th>
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</thead>
<tbody>
<tr>
<td>BOD₅ (mg/lt)</td>
<td>255</td>
<td>30</td>
</tr>
<tr>
<td>TSS (mg/lt)</td>
<td>258</td>
<td>30</td>
</tr>
</tbody>
</table>

Flow: 14,000 m³/day
Population Equivalent: 70,000 PE