

**Water Quality Violations (NPDES Permit - effluent)**

| 2004 VIOLATIONS |                            |           |  |
|-----------------|----------------------------|-----------|--|
| DATE            | PERMIT LIMIT               | VIOLATION | CAUSE/CORRECTIVE ACTION  |
| MAY 23          | Settleable Solids 0.5 ml/l | 1.5 ml/l  | Biological growth was dislodged from the sample line while the sample was being collected. This caused an elevated level of solids in the sample. To mitigate this, the sample tap was modified to prevent dislodging solids from the sample line. |

| 2005 VIOLATIONS |  |                             |  |
|-----------------|--|-----------------------------|--|
| DATE            | PERMIT LIMIT   | VIOLATION                   | CAUSE/CORRECTIVE ACTION  |
| JUNE 10         | Chlorine Residual Mass<br>27 lbs/day<br>Chlorine Residual<br>Concentration 0.018<br>mg/l (Daily Avg) | 84.31 lbs<br>0.070 mg/l     | A computer failure caused a disruption in dechlorination chemical feed. The computer system was repaired and a failure analysis was performed. Response procedures were also reviewed with operations staff.   |
| SEPTEMBER 2     | Chlorine Residual Mass<br>27 lbs/day<br>Chlorine Residual<br>Concentration 0.018<br>mg/l (Daily Avg) | 51 lbs<br>0.0467<br>mg/l    | Normally the plant has the ability to feed two separate dechlorination chemicals (one as primary and the second as a back-up). Due to manufacturer problems only a single chemical was available for use. This reduced the plants flexibility with its dechlorination operations. SRWTP worked with the manufacturer to resolve the problems so that both chemicals were available for use. Computer controls were also developed to automatically feed dechlorination chemical. |
| SEPTEMBER 5     | Chlorine Residual Mass<br>27 lbs/day<br>Chlorine Residual<br>Concentration 0.018<br>mg/l (Daily Avg) | 32.75 lbs<br>0.0304<br>mg/l | Same as above  |
| SEPTEMBER 30    | Chlorine Residual<br>Concentration 0.018<br>mg/l (Daily Avg)   | 0.022 mg/l                  | Same as Above  |

| 2006 VIOLATIONS |              |           |                         |
|-----------------|--------------|-----------|-------------------------|
| DATE            | PERMIT LIMIT | VIOLATION | CAUSE/CORRECTIVE ACTION |
|                 |              | None      | n/a                     |

| 2007 VIOLATIONS   |   |                           |  |
|-------------------|---|---------------------------|--|
| DATE              | PERMIT LIMIT  | VIOLATION                 | CAUSE/CORRECTIVE ACTION  |
| <b>APRIL 18</b>   | Chlorine Residual Concentration 0.013 mg/l (Daily Avg.) | 0.037 mg/l                | A power loss at the outfall station led to a series of events that resulted in loss of dechlorination. Training on response to power loss at the outfall was provided. |
| <b>JUNE 24-30</b> | Coliform 23 MPN/100ml (weekly median)                   | 30 MPN/100ml              | Despite high chlorine doses, the Coliform limit was exceeded. As a result chlorine levels were further increased.  |
| <b>AUGUST 6</b>   | pH not to fall below 6.0 for more than 20 minutes       | 5.97<br>20 minute average | An unexpected drop in flow led to increased chlorine levels, which depressed pH. The caustic feed pump failed to respond.  |