Section II
Preventive Maintenance Program

CONSENT DECREE SECTION XII, PARAGRAPHS 24, 62b PREVENTIVE MAINTENANCE PROGRAM

Paragraph 24: Requires the Board to comply with the Preventive Maintenance Program in accordance with the procedures and schedules therein.

Paragraph 62 b: Requires the Board's annual report to include information on activities listed on the table "Preventive Maintenance-Quantifiable Measures" in the Preventive Maintenance Program (Consent Decree Exhibit 3.) The report on preventive maintenance shall include the following information:

- identification of specific pipe segments which were inspected, cleaned, repaired, or replaced
- number and location of manhole inspections
- a summary of all force main preventive maintenance activities for the year
- other non-RMAP related activity
- where available, maps documenting information provided in the report
- a certification of compliance with the Preventive Maintenance Program (including pump station preventive maintenance).

- The Board has complied with the requirements in the Preventive Maintenance Program for sanitary sewer collection system line inspections, sanitary sewer collection system line cleaning, sanitary sewer collect system manhole inspections, sanitary sewer collection system repairs, air release valve inspection and maintenance, force main isolation valve exercise and inspection, force main alignment inspection, and cathodic protection system surveys.

- Post-Katrina, the Board sought and was granted *force majeure* for Sewer Pump Station Preventive Maintenance. The Board will begin performing Sewer Pump Station Preventive Maintenance as Sewer Pump Stations, damaged during Hurricane Katrina, are fully repaired.

- A map documenting the Board's preventive maintenance for 2008 is shown in Appendix 3.

<u>GRAVITY SYSTEM</u>

1. <u>Sewer Main Line Inspection and Cleaning</u>:
   Inspect at least 9% of the system each year and 100% in 8 years.
   Clean at least 7% of the system each year and 100% in 10 years.

2008 Work Accomplished:

Inspection

- In 2008, the Board complied with the Preventive Maintenance requirements for the Sanitary Sewer Collection System line inspection.

- Total footage contained in the East Bank Sanitary Sewer Collection System Line Inventory is 6,043,493.8 feet as of December 31, 2008.

- The Board completed inspection on 891,945.9 feet of sewer system during 2008. A detailed report of sewer main lines inspected by the Board for 2008 is included at Appendix Tab 4 and does not include duplicates.

- The Board's contractors completed inspection on 8,329.8 feet of sewer system during 2008. A detailed report of sewer main lines inspected by the Board's contractors for 2008 is included at Appendix Tab 5 and does not include duplicates.

- The Board and its contractors completed inspection on 900,274.9 feet (14.9%) of sewer system during 2008. A detailed report of sewer main lines inspected by the Board and its contractors is included at Appendix Tab 6 and does not include duplicates.

- Appendix Tab 7 contains a listing of all line segments inspected during 2008, and includes all duplicates.

- The Board has inspected a cumulative total of 6,023,536.1 feet (99.67%) from June 23, 1998 to December 31, 2008. This cumulative total does not include duplicate line inspections. Appendix Tab 8 contains a listing of all sewer mains inspected during the current cycle, from 1998 through December 31, 2008. The dates shown in this cycle reflect the cycle extension request approved by the Department of Justice in its letter dated January 25, 2008. (Refer to Appendix 9)

Cleaning:

- In 2008, the Board complied with the Preventive Maintenance requirements for the Sanitary Sewer Collection System line cleaning.

- Total footage contained in the East Bank Sanitary Sewer Collection System Line Inventory is 6,043,493.8 feet as of December 31, 2008.

- The Board cleaned 1,072,033.4 feet of the sewer system during 2008. A detailed report of sewer main line segments cleaned for 2008 is provided at Appendix Tab 10 and does not include duplicates.

- The Board's contractors cleaned 5,447 feet of the sewer system during 2008. A detailed report of sewer main line segments cleaned for 2008 is provided at Appendix Tab 11 and does not include duplicates.

- The Board and its' contractors cleaned 1,077,480.4 feet (17.8%) feet of the sewer system during 2008. A detailed report of sewer main line segments cleaned for 2008 is provided at Appendix Tab 12 and does not include duplicates.

- Appendix Tab 13 contains a listing of all line segments cleaned during 2008, and includes all duplicates.

- The Board has cleaned a cumulative total of 6,117,397.7 feet (101.22%*) from June 23, 1998 to June 22, 2008. This cumulative total does not include duplicate line cleaning. Appendix Tab 14 contains a listing of all sewer mains cleaned during the cycle dating from June 23, 1998 through June 22, 2008. *System lines are often removed or added to the system. Therefore, the amount of cumulative completion often appears to be over 100%.

- The Board has met the requirement to clean 100% of the system in ten years for the cycle from June 23, 1998 to June 22, 2008.

- The Board has cleaned a cumulative total of 455,722 feet (7.54%) from June 23, 2008 through December 31, 2008 for the 10-year cycle starting on June 23, 2008 and ending June 22, 2018. This cumulative total does not include duplicate line cleanings. Appendix Tab 15 contains a listing of a sewer mains cleaned during the current cycle, from June 23, 2008 through December 31, 2008.

2. Sewer Manhole Inspections:
Inspect at least 25% of all sewer manholes each year and 100% in 3.3 years.

2008 Work Accomplished:

- In 2008, the Board complied with the Preventive Maintenance requirements for Sewer Manhole Inspections.

- The Board inspected 7,321 manholes during 2008. A detailed report of manholes inspected by the Board is included at Appendix 16.

- The Board's contractors inspected 1,625 manholes during 2008. A detailed report of manholes inspected by the Board's contractors is included at Appendix 17.

- The Board and its contractors inspected 8,946 (38.79%) manholes during 2008. A detailed report of manholes inspected by the Board and its' contractors is included at Appendix 18.

- A report of sewer manholes inspected by the Board during 2008, including duplicates, is included at Appendix Tab 19.

- The Board has inspected a cumulative total of 22,087 (95.8%) manholes in the current cycle from February 19, 2005 to August 17, 2009*. This cumulative total does not include duplicate manhole inspections. Appendix Tab 20 contains a listing of all sewer manholes in the current cycle from February 19, 2005 to August 17, 2009*.

  * The dates shown in this cycle reflect the cycle extension request approved by the Department of Justice in its letter dated January 25, 2008. (Refer to Appendix 9)

3. Sewer Collection System Repairs:
   Report all sanitary sewer system repairs.

2008 Work Accomplished:

- The Board completed 420 repairs in 2008. A detailed report of the Board's sewer collection system repairs is provided at Appendix Tab 21.

- The Board's contractors completed 37 repairs in 2008. A detailed report of sewer collection system repairs by Board contractors is provided at Appendix Tab 22.

- The Board and its contractors completed 457 repairs in 2008. A detailed report of all sewer collection system repairs is provided at Appendix Tab 23.

OPERATIONS AND FACILITIES MAINTENANCE DEPARTMENTS

1. Perform all preventive maintenance work within two weeks of scheduled date for accomplishment.

2008 Work Accomplished:

- A detailed report of the operational status of Sewer Pump Stations as of December 31, 2008 is provided at Appendix Tab 24.

- The Board has been granted *force majeure* protection for preventive maintenance on pump stations through December 31, 2008, and into 2009.

- The Board has not been able to return to the pre-Katrina Preventive Maintenance Program outlined in Exhibit 3 of the Consent Decree. However, the Board continues to perform regular maintenance on all units powered by commercial power. In addition, portable pumps that are under contract are maintained by the vendor.

PRESSURE SYSTEM

1. Air Release Valves:

Perform semi-annual inspection maintenance.

2008 Work Accomplished:

- The Networks Department performed semi-annual inspection and maintenance of sewer force main air release valves in 2008.

- During the first half of 2008, the Board inspected and maintained twenty-one (21) known air release valves.

- During the second half of 2008, the Board inspected and maintained twenty-one (21) known air release valves.

- A detailed report of the semi-annual inspections of air release valves is provided at Appendix Tab 25.

- On November 19, 2008, the Board accepted Contract #3819, which added 10 air release valves to the system. These additional air release valves were exercised/inspected as part of the final acceptance of the contract. A memorandum verifying that the new air release valves were exercised/inspected as part of Contract #3819 is provided at Appendix 26.

- The Board's percentage compliance on air release valve inspection and maintenance was 100% for 2008.

- The Networks Department maintains a program to identify accessible corporation cocks in the sanitary sewer force main system and to investigate these sites for possible use as air release valves and inclusion in the program. The Sewerage and Water Board maps have been reviewed to find all corporation cocks that were accessible for

use as potential air release valves. Each location has been recorded. The Board has also visited each of these locations to verify the existence of the corporation cock and its location. In addition, Networks Engineering is reviewing the sewer force main system to identify suitable locations for installation of air release valves.

2. Force Main Isolation Valves Exercise and Inspection:
   Inspect and exercise annually, after the completion of the first inspection cycle, for which two years is allowed.

   2008 Work Accomplished:

   - The Board inspected and exercised 156 (100%) of the 156 identified sewer force main isolation valves during 2008.
   - A detailed report of the inspections of force main isolation valves is contained at Appendix Tab 27.
   - The Board is seeking modification of the Preventive Maintenance Program relating to the number of Force Main Isolation Valves. Please refer to Section V of this document for the specific change requests.

3. Force Main Alignment
   Visually inspect annually.

   2008 Work Accomplished:
   - The Networks Department has completed the annual alignment inspection of one hundred percent (100%) of the one hundred two (102) miles of sewer force mains for 2008. This procedure was developed for Section 7.0 of the Preventive Maintenance Program.
   - On November 19, 2008 the Board accepted Contract #3819, which added approximately 1 mile to the force main system.
   - A detailed report of the Force Main Alignment inspection is provided at Appendix 28.
   - The Board is seeking modification of the Preventive Maintenance Plan for Force Main Alignment. The request description can be found in Section V of this report.

4. Cathodic Protection:
   Conduct cathodic protection surveys annually.

2008 Work Accomplished:

- The Preventive Maintenance Plan requires the Board to conduct a cathodic protection survey on an annual basis. The Board has met this requirement in 2008 by conducting a minimum of two (2) surveys at each cathodic protection site. The Board schedules these surveys on a quarterly basis.

- A detailed report of twenty (20) cathodic protection inspections is provided at Appendix Tab 29.