SEWER OVERFLOW ACTION PLAN UNAUTHORIZED DISCHARGE TRACKING AND REPORTING PLAN

- In 2011, from January 1 through December 31, there were a total of 189 unauthorized discharges from the gravity system mains, sewer force mains and sewer pumping stations. The Board complied with the 4-hour response time goal set out in the Sewer Overflow Action Plan for these discharges.

  The Board has met the requirement provide SOAP activities, including, but not limited to, the number of responses to unauthorized discharges, the response times for each discharge and actions taken to clean up and disinfect the discharge site.

- The Board is using the "Key to Measures Taken in Response to Unauthorized Discharges" in order to identify control measures taken by the Board, permitting the Board to accurately document field activities pertaining to the clean up and disinfection of discharge sites.

- The Board is not seeking further modifications of the Modified Sewer Overflow Action Plan.

- The Board did not make any non-significant changes to the Modified Sewer Overflow Action Plan in 2011.

  The Board has met the requirement to include a certification that the Board is complying with any non-significant changes made to the Modified Sewer Overflow Action Plan.

PREVENTIVE MAINTENANCE PLAN

- 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 collection system manhole inspections, sanitary sewer collection system repairs, pump station preventive maintenance, air release valve inspection and maintenance, force main isolation valve exercise and inspection, force main alignment inspection, and cathodic protection system surveys.

Sanitary Sewer Collection System Line Inspection

Requirement: Inspect at least 9% of the system each year and 100% in 8 years.
Total System Amount: 6,052,087.30 feet (as of 12/31/2011)

- 2011 Completion: 1,249,797.00 feet
  Annual Percent Compliance: 20.65%

  The Board has met the requirement to inspect at least 9% of the system each year.

- Cumulative (6/23/2009 to 12/31/2011) for Cycle Ending 6/22/2017 Compliance: 3,158,311.60 feet (52.19%).

  The Board is on track to meet the requirement to inspect 100% of the system in 8 years.

- The Board and its contractors inspected a cumulative total of 274,311.00 feet in 2011 utilizing CCTV.

- The Board and its contractors inspected a cumulative total of 1,012,340.00 feet in 2011 utilizing Smoke Testing.

Sanitary Sewer Collection System Line Cleaning

Requirement: Clean at least 7% of the system each year and 100% in 10 years.
Total System Amount: 6,052,087.30 feet (as of 12/31/2011)

- 2011 Completion: 1,812,284.70 feet
  Annual Percent Compliance: 29.94%

  The Board has met the requirement to clean at least 7% of the system each year.

- Cumulative (6/23/2008 to 12/31/2011) for Cycle Ending 6/22/2018 Compliance: 3,878,849.40 feet (64.09%)

  The Board is on track to meet the requirement to clean 100% of the system in 10 years.

Sanitary Sewer Collection System Manhole Inspections

Requirement: Inspect at least 25% of all sewer manholes each year and 100% in 3.3 years.
Total System Amount: 23,027 manholes (as of 12/31/2011)

- 2011 Completion: 14,142 manholes
  Annual Percent Compliance: 61.41%

  The Board has met the requirement to inspect 25% of all sewer manholes each year.

- Cumulative (8/18/2009 – 12/31/2011) for Cycle Ending 12/17/2012 Compliance: 21,860 manholes (94.93%)

  The Board is on track to meet the requirement to inspect 100% of sewer manholes in 3.3 years.

Sanitary Sewer Collection System Repairs

Requirement: Report all Sanitary System Repairs

- 2011 Completion: 1,329 reportable repairs (as of 12/31/2011)
  Percent Compliance: 100%

  The Board has met the requirement to report all sanitary system repairs.

Sewage Pump Station Preventive Maintenance

Requirement: Complete 90% of all preventive maintenance tasks within two weeks of the scheduled date for completion.

- Total Required PM Activities: 3,080
  2011 Completion: 3,049
  Percent Compliance: 99.00%

  The Board has met the requirement to complete 90% of all preventive maintenance tasks within two weeks of the scheduled date of completion.

- Pursuant to Paragraph 57b of the Modified Consent Decree, the preventive maintenance reporting period for each pump station begins after it has been operating for a full quarter of the year.

- The Board is reporting preventive maintenance activities for sixty-one (61) stations in 2011. A table detailing the number of preventive maintenance activities per pump station can be found in Section II.

- 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.

Air Release Valve Inspection and Maintenance

Requirement: Perform semi-annual inspection and maintenance.
Total System Amount: 34 known air release valves

- **First Half, 2011**
  2011 Completion: 34 inspected
  Percent Compliance: 100%

- **Second Half, 2011**
  2011 Completion: 34 inspected
  Percent Compliance: 100%

  The Board has met the requirement to perform semi-annual inspection and maintenance on its air release valves.

Force Main Isolation Valve Exercise and Inspection

Requirement: Inspect and exercise annually, after the completion of the first inspection cycle, for which two years is allowed.
Total System Amount: 171 force main isolation valves as of December 31, 2011.

- 2011 Completion: 171 force main isolation valves inspected and exercised.
  Percent Compliance: 100%

  The Board has met the requirement to inspect and exercise annually its force main isolation valves.

Force Main Alignment Inspections

Requirement: Visually inspect annually.
Total System Amount: Approximately 102 miles (as of 12/31/2011)

- 2011 Completion: Approximately 102 miles
  Percent Compliance: 100%

  The Board has met the requirement to complete a visual force main alignment inspection.

Cathodic Protection System Surveys

Requirement: Conduct cathodic protection surveys annually.
Total Number of East Bank Test Sites: 22 (as of 12/31/2011)

- 2011 Completion: 22 sites surveyed
  Percent Compliance: 100%

  The Board has met the requirement to annually conduct cathodic protection surveys.

- The Board's Cathodic Protection system consists of sacrificial anodes attached to the structure to be protected or impressed current systems. The anode method is used on short sections of coated steel sewer force mains. For longer sections of steel sewer force mains, the positive impressed current system employs a rectifier assembly in a deep well ground bed. At present, Board operates two (2) east bank sacrificial anode systems and twenty (20) impressed current systems. The impressed current systems also contain sacrificial anode protection to prevent corrosion if the rectifier fails. All twenty-two (22) systems are surveyed annually.

Non-Significant Changes to the Preventive Maintenance Program

- The Board did not make any non-significant changes to the Modified Preventive Maintenance Program in 2011.

  The Board has met the requirement to include a certification that the Board is complying with any non-significant changes made to the Modified Sewer Overflow Action Plan.

STORM SEWER MONITORING PLAN

2011:

- Phase I of the Storm Sewer Monitoring Program was completed on March 8, 2000. On January 19, 2001, a tabulation of sampling for Phase I was submitted to the EPA as required.

- Phase II of the Storm Sewer Monitoring Program will commence within 180 days of completion of the Remedial Measures Action Plan (RMAP) for all sewerage basins that are within the drainage system pumping station basins that are required to be sampled although the original completion dates will be changed. The work in the sewage basins was scheduled to be completed no later than December 31, 2006. The parties are currently negotiating a new completion date, yet to be determined.

- The Board has met the requirement to report its Storm Sewer Monitoring Plan activities.

One-Hundred Year Flood Protection

2011 Work Accomplished:

- The Board staff has begun the design, procurement, and installation of a 4-meg emergency generator for the East Bank plant. Through Sewerage and Water Board contract #3629, the 4 MW generator was purchased at a price of $2,759,559.00 and is being manufactured for delivery.

- Generator Building - The Sewerage and Water Board contract #3628 was rejected by the Board. Contract #3681 was let to replace it. Through the new contract, #3681, the Board has started construction. Current estimated construction cost is $7,498,000.

- Through contract #3661, the Board has completed the design phase and awarded a construction contract to raise the berm around East Bank Wastewater Treatment Plant in the amount of $24,391,466.00.

- The Board has met the requirement to provide a report on the progress of construction of facilities to protect the East Bank Plant from a one-hundred year flood.

Population Changes and Revised Population Projections

2011 Work Accomplished

- The population data is within the acceptable range of earlier projections. Therefore, the model indicates there is no reason to reconsider capacity issues at this time.

- The Board has met the requirement to provide a report on any population changes and any revised population projections.

Consent Decree Accomplishments

During 2011, the following actions occurred under the Consent Decree – Civil Action No. 93-3212. All Consent Decree accomplishments previous to the Modified Consent Decree are listed in Appendix 30 of this report. All accomplishments after the lodging of the Modified Consent Decree are listed in Appendix 31.

MODIFIED CONSENT DECREE

Paragraph 18

Sewer Pump Station Completion – Bullard
District: E
Scheduled Date: 04/30/11
Actual Date: 04/25/11

Sewer Pump Station Completion – Lake Forest
District: E
Scheduled Date: 04/30/11
Actual Date: 04/25/11

Sewer Pump Station Completion – Lawrence
District: E
Scheduled Date: 04/30/11
Actual Date: 04/25/11

Sewer Pump Station Completion – Berg
District: E
Scheduled Date: 04/30/11
Actual Date: 04/28/11

Sewer Pump Station Completion – Plum Orchard
District: E
Scheduled Date: 04/30/11
Actual Date: 04/28/11

Sewer Pump Station Completion – Shorewood
District: E
Scheduled Date: 04/30/11
Actual Date: 04/28/11

Consent Decree Accomplishments

Sewer Pump Station Completion – Victoria
District: E
Scheduled Date: 04/30/11
Actual Date: 04/28/11

Sewer Pump Station Completion – Weber
District: E
Scheduled Date: 04/30/11
Actual Date: 04/28/11

Sewer Pump Station Completion – Briarwood
District: E
Scheduled Date: 04/30/11
Actual Date: 04/29/11

Sewer Pump Station Completion – Crowder
District: E
Scheduled Date: 04/30/11
Actual Date: 04/29/11

Sewer Pump Station Completion – DODT
District: E
Scheduled Date: 04/30/11
Actual Date: 04/29/11

Sewer Pump Station Completion – Ligget
District: E
Scheduled Date: 04/30/11
Actual Date: 04/29/11

Sewer Pump Station Completion - A
District: B&C
Scheduled Date: 07/11/11
Actual Date: 07/11/11

Sewer Pump Station Completion - France & Florida
District: D&E
Scheduled Date: 07/11/11
Actual Date: 07/11/11

Sewer Pump Station Completion – K-Mart
District: D&E
Scheduled Date: 07/11/11

Consent Decree Accomplishments

Actual Date: 07/11/11

Sewer Pump Station Completion – Meco
District: D&E
Scheduled Date: 07/11/11
Actual Date: 07/11/11

Sewer Pump Station Completion – American Marine
District: E
Scheduled Date: 07/31/11
Actual Date: 07/29/11

Sewer Pump Station Completion – Burke
District: E
Scheduled Date: 07/31/11
Actual Date: 07/29/11

Sewer Pump Station Completion – Folgers
District: E
Scheduled Date: 07/31/11
Actual Date: 07/29/11

Sewer Pump Station Completion – Southern Scrap
District: E
Scheduled Date: 07/31/11
Actual Date: 07/29/11

Sewer Pump Station Completion – Venetian Isles
District: E
Scheduled Date: 07/31/11
Actual Date: 07/29/11

Sewer Pump Station Completion – Village D'Lest
District: E
Scheduled Date: 07/31/11
Actual Date: 07/29/11

Consent Decree Accomplishments

Paragraph 56

4th Quarter 2010 Consent Decree Report
District: Citywide
Scheduled Date: 02/01/11
Actual Date: 01/27/11

1st Quarter 2011 Consent Decree Report
District: Citywide
Scheduled Date: 05/01/11
Actual Date: 04/27/11

2nd Quarter 2011 Consent Decree Report
District: Citywide
Scheduled Date: 08/01/11
Actual Date: 08/01/11

3rd Quarter 2011 Consent Decree Report
District: Citywide
Scheduled Date: 11/01/11
Actual Date: 10/31/11

Paragraph 57

2011 Annual Consent Decree Report
District: Citywide
Scheduled Date: 03/01/11
Actual Date: 02/22/11