

ONEIDA COUNTY SEWER DISTRICT

QUARTERLY PROGRESS REPORT

2ND QUARTER – 2012

NYSDEC Consent Order R620060823-67

Prepared for

Oneida County Department of Water Quality
& Water Pollution Control

Steven P. Devan, P.E., Commissioner

51 Leland Avenue

Utica, NY 13502

SCE Project No. 07060.C7

July 27, 2012



Utica, NY



Cazenovia, NY

BROWN AND
CALDWELL

Liverpool, NY

QUARTERLY PROGRESS REPORT
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SANITARY SEWER COLLECTION SYSTEM

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1.0 INTRODUCTION

1.1 HISTORICAL BACKGROUND

The Oneida County Sewer District (District) was formed in 1965 through an act by the former Oneida County Board of Supervisors. It is administered by Oneida County through the Oneida County Department of Water Quality and Water Pollution Control (WQ&WPC) which is responsible for the operation of the District's facilities and personnel. District facilities include 45 miles of interceptor sewers, the Sauquoit Creek and the Barnes Avenue Pumping Station, and the Water Pollution Control Plant. The District services 15 municipalities, nine of which are within the Sauquoit Creek Pumping Station (SCPS) Basin. These municipalities own and operate their own collection systems.

1.2 CONSENT ORDER

The New York State Department of Environmental Conservation (NYSDEC) and Oneida County (County) entered into a Consent Order No. R620060823-67) due to sanitary sewer overflows (SSO) at the Sauquoit Creek Pumping Station. In addition to the required mitigation of those SSOs, the Consent Order, with an effective date of December 12, 2011, requires the submission of Quarterly Progress Reports. The intent of this Quarterly Progress Report is to summarize the work that has been undertaken by the County between April 1, 2012 and June 30, 2012 (second quarter of 2012) in support of the Consent Order compliance requirements.

2.0 ENGINEERING INVESTIGATIONS AND EVALUATIONS

During the second quarter of 2012, the County completed the following tasks related to engineering investigations and evaluations.

2.1 COLLECTION SYSTEM

2.1.1 Manhole Inspections

The results of the previously completed manhole inspections were presented in a report titled “Manhole Evaluation Report”, submitted to NYSDEC June 29, 2012 as required by the Consent Order.

2.1.2 Sanitary Sewer Televising

There are approximately 216 miles of sanitary sewer within the SCPS basin (30 miles of District sewer plus 186 miles of municipal sewer). The County has contracted with a firm to perform closed circuit televising (CCTV) of these sanitary sewers. During the second quarter of 2012, approximately 10 miles of sewer have been televised. CCTV of the municipal sewers will continue through 2012. Approximately 141 miles of sewer have been televised to date. Televising data is being collected electronically in the field using the nationally standardized Pipe Assessment and Certification Program (PACP) and incorporated into the County’s data management software.

2.1.3 Dye Testing

The results from the previously completed dye testing were presented in a report titled “Dye Testing and Storm Sewer Evaluation Report”, submitted to NYSDEC June 29, 2012 as required by the Consent Order.

2.2 WATER POLLUTION CONTROL PLANT

Oneida County and its Engineering Consultants continue to advance the detailed engineering study of the existing Water Pollution Control Plant (WPCP) and the SCPS and forcemain.

During the second quarter of 2012, work completed with respect to the engineering evaluation included:

- Continued analysis of treatment alternatives and options.
- Regular project meetings among County and Engineering Consultant staff.
- Development of draft report for internal review/comment.
- Progress meetings with NYSDEC held on April 3 and May 21, 2012.

3.0 MANAGEMENT PROGRAMS

3.1 COMPUTERIZED MANAGEMENT AND MAINTENANCE SYSTEM (CMMS)

The County purchased a CMMS software system (Lucity – formerly GBA Master Series) in 2009. This software is used to manage the sewer system data (mapping, inspections, etc.) obtained to date by the County. At the same time that the software was acquired, the County invested in computer hardware upgrades to support the CMMS system. The County’s GIS Coordinator manages the system.

During the second quarter of 2012, the CMMS use was expanded to include Work Order development for tracking sewer rehabilitation work.

3.2 FLOW MONITORING PROGRAM

A proposed flow monitoring program was developed during the first quarter and submitted on March 27, 2012 to NYSDEC in accordance with Schedule A – Section B.1 of the Consent Order with the intended goal of tracking the progress of inflow/infiltration reduction as a result of sewer rehabilitation projects within the SCPS basin. No additional work was done on this plan during the second quarter of 2012 as the document was still under review by NYSDEC.

3.3 PRIVATE PROPERTY I/I REDUCTION PROGRAM

During the second quarter of 2012, a proposed outline of a program to reduce private property I/I (PPII) sources from the sanitary sewer system in the SCPS basin was prepared in accordance with Schedule A – Section B.2 of the Consent Order. A document titled “Preliminary Planning Document – Private Property Inflow and Infiltration Reduction Program” was submitted to NYSDEC on June 29, 2012 for review and comment.

3.4 CAPACITY, MANAGEMENT, OPERATIONS, AND MAINTENANCE (CMOM) PROGRAM

During the second quarter of 2012, a proposed outline for a CMOM program that includes the Satellite Municipalities within the Sauquoit Creek Pump Station basin was prepared in accordance with Schedule A – Section B.3 of the Consent Order. Submission of a document titled “Preliminary Planning Document – Proposed CMOM Framework – Sauquoit Creek Pumping Station Basin Communities” was submitted to NYSDEC on June 29, 2012 for review and comment.

4.0 SCHEDULE/MILESTONE DATES

4.1 APPROVED SCHEDULE

The following table represents the approved schedule as defined by the Consent Order (note that there were no changes to this schedule during the second quarter of 2012):

DESCRIPTION	CONSENT ORDER, SCHEDULE 'A' DATE
<u>Engineering Investigations and Evaluations</u>	
Dye Testing and Storm Sewer Report	June 30, 2012
Manhole Evaluation Report-Phase II	June 30, 2012
Sewer CCTV Inspection Report-Phase II	April 30, 2012
SCPS Evaluation Report	August 31, 2012
WPCP Evaluation Report	August 31, 2012
Treatment System Supplement (Report)	60 days after approval of WPCP Evaluation Report
Sewer CCTV Inspection Report-Phase III	April 30, 2014
Collection System Supplement (Report)	May 31, 2014
<u>Management Programs</u>	
Flow Monitoring Program	March 31, 2012
Private Property I/I Reduction Program	June 30, 2012
CMOM Program	June 30, 2012
PPII Reduction Program Implementation	May 31, 2013
CMOM Implementation	May 31, 2013
Asset Management Plan	December 31, 2021
<u>Remedial Measures</u>	
Semi-Permanent Alternative-Construction	December 31, 2016
SSO Mitigation-Consent Order Compliance	December 31, 2021
<u>Reporting</u>	
Annual Work Plan	January 31, annually
Quarterly Progress Report	Quarterly

4.2 MILESTONES

During the second quarter of 2012, the following milestone dates were met:

- “Proposed CMOM Framework” was submitted to NYSDEC June 29, 2012. This document was due to NYSDEC on June 30, 2012.
- “Private Property Inflow and Infiltration Reduction Program” was submitted to NYSDEC June 29, 2012. This document was due to NYSDEC on June 30, 2012.
- “Dye Testing and Storm Sewer Evaluation Report” was submitted to NYSDEC on June 29, 2012. This document was due to NYSDEC on June 30, 2012.
- “Manhole Evaluation Report” was submitted to NYSDEC on June 29, 2012. This Document was due to NYSDEC on June 30, 2012.

5.0 SEWER REHABILITATION

Design and construction for initial projects is being financed under CWSRF Project No. C6-6070-08-00. Projects will be tracked by contract number. The following is a status update of the current sewer rehabilitation contracts.

5.1 CONTRACT 2 – SANITARY SEWER MANHOLE REHABILITATION – PHASE 2

Green Mountain Pipeline Services (GMPS) and their sub-contractor mobilized materials and equipment, and began work during the second week of June, 2012. This project includes the rehabilitation of approximately 900 sanitary manholes. Work will continue through December 2012.

5.2 CONTRACT 3 – SANITARY SEWER MAINLINE REHABILITATION – PHASE 1

This project was advertised for public bid on April 4, 2012, bids were opened May 3, 2012 and a contract was awarded to Insituform Technologies, LLC on June 13, 2012. Work includes approximately 13 miles of sewer rehabilitation using cured in place pipe (CIPP) lining. Work will continue into the first quarter of 2013.

5.3 CONTRACT 4 – SEWER SEPARATION – CLINTON/HENDERSON STREET, NY MILLS

Plans, specifications, and engineering report for this project were submitted to NYSEFC and NYSDEC on April 19, 2012 for review and comment. The project was advertised for public bid on June 5, 2012 and bids were opened June 26, 2012. Work includes the separation of a short section of combined sewer, reconnection of sanitary laterals, and construction of a short section

of storm sewer with an outfall to Sauquoit Creek through Pietryka Park. The majority of the construction work is scheduled to occur during the third quarter of 2012.

5.4 CONTRACT 5 – SEWER SPOT REPAIRS – PHASE 1

Project is currently under design. Work includes storm sewer and sanitary sewer repairs for the purpose of removing inflow (both direct and indirect) sources from the sanitary sewer system as determined from the results of dye testing (see Section 2.1.3). Repairs are planned for 15 separate locations throughout the SCPS tributary area. A construction schedule has not yet been formalized.

6.0 ASSESSMENT OF REHABILITATION EFFECTIVENESS

During the second quarter of 2012, there was no mechanism (flow monitoring) in place to measure the effectiveness of sewer rehabilitation. See Section 3.2, above for a discussion of the status of flow monitoring.

7.0 COMPLETED CAPITAL PROJECTS/FACILITY UPGRADES

During the second quarter of 2012, there were no capital projects or facility upgrades completed.

8.0 I/I OFFSET PROJECTS/NEW FLOWS

During the second quarter of 2012, the following additions and subtractions to the I/I Offset Credit Bank were recorded by the County. All amounts are reported in gallons per day (gpd), after the application of the 5:1 offset ratio.

COMMUNITY	STARTING BALANCE	CREDITS ADDED		CREDITS USED		ENDING BALANCE
Town of New Hartford	61,447		0	Lot 1 Pleasant Street 23 Cherrywood Blvd. 13 Dogwood Lane 11 Dogwood Lane 4 Dogwood Lane 35 Overland Drive 36 Overland Drive Lot 19 Fawncrest Blvd.	320 320 240 240 240 240 320 320	59,207
Town of Paris	2,077		0		0	2,077
Town of Whitestown	2,153	2009 MH Rehabilitation-13 MHs	2,884		0	5,037
Village of Clayville	0		0		0	0
Village of New Hartford	17,582		0		0	17,582
Village of New York Mills	364		0		0	364
Village of Oriskany	1,243		0		0	1,243
Village of Whitesboro	16,345		0		0	16,345
Village of Yorkville	316		0		0	316
Totals	101,527		2,884		2,240	102,171

9.0 KEY PERSONNEL CHANGES

Key personnel changes, as they relate to the SSO Mitigation/Consent Order compliance project, is interpreted to be those staff members, whose addition to or deletion from the project would be viewed by the County to either add resources, or be a detriment to progress. Project staff includes County, satellite community, and consultant team personnel. The following is a summary of changes.

9.1 COUNTY STAFF

During the second quarter of 2012, there were no changes of key personnel to report.

9.2 SATELLITE COMMUNITY STAFF

During the second quarter of 2012, there were no changes of key personnel to report.

9.3 CONSULTANT TEAM STAFF

During the second quarter of 2012, there were no changes of key personnel to report.

10.0 ADMINISTRATIVE ITEMS

10.1 WORK AUTHORIZATIONS

10.1.1 Work Order 12 (Amendment 2) – Water Pollution Control Plant and Sauquoit Creek Pump Station Evaluation

This amendment was approved by Oneida County on June 15, 2012. It expanded the scope of the engineering evaluation to include the evaluation of the incinerators and alternatives for sludge disposal other than incineration.

10.2 FUNDING APPLICATIONS

10.2.1 Phase 5a – Pump Station and Forcemain Upgrades – Design and Permitting (CWSRF No. C6-6070-08-02)

The Engineering Consultant team continued to assemble technical information that will be submitted to NYSEFC in support of this funding application. The amount of financing requested is \$3.0 million. The scope of the proposed work is limited to engineering and environmental services for the design and permitting of the proposed upgrades to the Sauquoit Creek Pumping Station and the addition of a second forcemain extending from the pump station to the WPCP.