

**SANITARY SEWER COLLECTION SYSTEM
QUARTERLY PROGRESS REPORT
3RD QUARTER – 2015
ONEIDA COUNTY SEWER DISTRICT**

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**

OCTOBER 30, 2015



Cazenovia, NY



Syracuse, NY



Utica, NY



**ONEIDA COUNTY DEPARTMENT OF
WATER QUALITY & WATER POLLUTION CONTROL**

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Anthony J. Picente, Jr.
County Executive

Steven P. Devan, P.E.
Commissioner

October 30, 2015

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UNITED PARCEL SERVICE

Koon Tang, P.E., Director
Bureau of Water Permits
Division of Water
NYS Department of Environmental Conservation
625 Broadway, 4th Floor
Albany, NY 12233

Re: Oneida County Sewer District
Quarterly Progress Report – 3rd Quarter 2015

Consent Order No. R6-20060823-67

Dear Mr. Townsend and Mr. Tang:

On behalf of Oneida County, I am providing for your review and comment Oneida County's Quarterly Progress Report for the 3rd Quarter – 2015 as required per Section XIII – Reporting Requirements of the Consent Order. This document summarizes the status and progress of work completed between July 1, 2015 and September 30, 2015 in support of Consent Order compliance requirements.

Please feel free to contact me should you have any questions or need additional information.

Sincerely,

**THE ONEIDA COUNTY DEPARTMENT OF
WATER QUALITY & WATER POLLUTION CONTROL**

Steven P. Devan, P.E.
Commissioner

Enclosure: Quarterly Progress Report – 3rd Quarter 2015

ecc: Anthony J. Picente, Jr. - Oneida County Executive
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**Sanitary Sewer Collection System
Quarterly Progress Report
3rd Quarter - 2015
Oneida County Sewer District
NYSDEC Consent Order R620060823-67**

Prepared for:

**Oneida County Department of Water Quality &
Water Pollution Control**

Prepared by:

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October 30, 2015

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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 Pumping Station (SCPS), the Barnes Avenue Pumping Station, and the Water Pollution Control Plant (WPCP). The District services 15 municipalities, nine (9) of which are within the 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 SCPS. 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 July 1, 2015 and October 30, 2015 (3rd Quarter of 2015) in support of the Consent Order compliance requirements.

2.0 ENGINEERING INVESTIGATIONS AND EVALUATIONS

During the 3rd Quarter of 2015, the County completed the following tasks related to engineering investigations and evaluations.

2.1 COLLECTION SYSTEM

2.1.1 Manhole Inspections

There were no manhole inspections completed during the 3rd Quarter of 2015.

2.1.2 Sanitary Sewer Televising

There are approximately 216 miles of sanitary sewer within the SCPS basin (30 miles of District interceptor sewer plus 186 miles of municipal sewer). The County has contracted with a firm (National Water Main Cleaning Co.) to perform closed circuit televising (CCTV) of these sanitary sewers. Televising data was collected electronically in the field using the nationally standardized Pipe Assessment and Certification Program (PACP) and incorporated into the County's data management software.

To date, approximately 79% of the 216 miles of sewers has been televised. The remaining 47 miles of sewers have not been inspected due to heavy debris in quantities beyond the scope of the contractual cleaning effort, small diameter pipe inhibiting effective CCTV inspections, lack of easement access to manholes and sewer, and buried manholes. These obstacles are primarily maintenance related and will be addressed through the District-wide Capacity, Management, Operations, and Maintenance (CMOM) program currently under development. It is anticipated that another 10-15% of the sewers will be inspected over the next five (5) years as a component of future sewer rehabilitation contracts.

During the 3rd Quarter of 2015, approximately 2.5 miles of sewer televising was completed under Contract 8. It is anticipated that up to 4.5 miles of CCTV will be completed during the next quarter under the County's next rehabilitation contract, Contract 10.

2.1.3 Dye Testing

There was no dye testing performed during the 3rd Quarter of 2015.

2.2 WATER POLLUTION CONTROL PLANT

During the 3rd Quarter of 2015, the solids handling design (plans, specifications, and Basis of Design Report) was completed for 4th Quarter submission to NYSDEC for regulatory review and comment. The design includes the construction of two (2) new egg-shaped anaerobic primary digesters, a secondary digester, digester gas cleaning, and combined heat and power (CHP) generation with new microturbines. The anaerobic digestion approach to sludge stabilization is a deviation from the original concept submitted in the 2012 "Water Pollution Control Plant and Sauquoit Creek Pump Station Evaluation." The NYSDEC approved the anaerobic digester concept in a letter dated May 30, 2014. The major components of the design include:

- Replacement of existing waste activated sludge pumps
- Refurbishment of all four (4) gravity thickeners. The thickeners, which currently thicken mixed primary and waste activated sludge, will be reconfigured. Two (2) thickeners will be dedicated to primary sludge only. Two (2) new gravity belt thickeners will be installed for waste activated sludge thickening only. The

remaining two (2) existing gravity thickeners will be converted to sludge blend tanks, for combining thickened primary and waste activated sludges.

- Two (2) new egg-shaped primary digesters. Egg shaped tanks were chosen due to efficiency and improved O&M (less cleaning and grit accumulation) than traditional tanks.
- One (1) new secondary digester with a gas holding cover.
- A new standby post-lime stabilization system as backup to the anaerobic digesters
- Two (2) new belt filter presses and reconfiguration of two (2) existing belt filter presses
- The design of select components of the solids handling upgrades is anticipated to be finalized and made ready for NYSDEC review during the 4th Quarter of 2015. It is anticipated that all solids handling upgrades will be bid as a single package in early 2016.
- Incinerator modifications will be refurbished only to the extent necessary to comply with new federal sewage sludge incinerator (SSI) regulations (40 CFR Part 60, Subpart M). The incinerators will not be upgraded for long-term operations, as anaerobic digesters will eventually replace the incinerators. Incinerator improvements include new mercury scrubbers on Unit Nos. 1 and 3. Bids were received for the procurement of scrubber equipment during the 1st Quarter of 2015. A purchase order for the equipment was issued by the County in April 2015. In June 2015, separate General and Electrical contracts for the installation of the scrubbers were advertised. These General and Electrical Contracts were awarded in July 2015. Scrubber equipment is scheduled to arrive onsite in October 2015. The County understands that the incinerator upgrades are required to be fully operational by March 2016 per the SSI regulations. The digesters would not be operational by that time; which dictates the need to upgrade the incinerators.

During the 3rd Quarter of 2015, the 30% design for the WPCP expansion/upgrade was completed by the Consultant Team. The Basis of Design Report for the WPCP expansion/upgrade was submitted to the NYSDEC in September 2015. The proposed WPCP upgrades generally include:

- A new screening facility and pump station, dedicated to sanitary flows from the North Utica and Starch Factory Creek Interceptors.
- The existing Raw Waste Building will be repurposed for combined flows from the City of Utica only.
- New grit removal facilities.
- New rectangular primary settling tanks to replace the existing circular primary settling tanks.
- A new high rate disinfection system for wet weather combined sewer flows which exceed the capacity of the existing secondary treatment system. No sanitary flows will be directed to the new high rate disinfection system.
- Replacement of the existing blowers with more efficient units, and replacement of existing aeration tank diffusers.
- Refurbishment of the existing final settling tanks.

The upgrades at the WPCP will also address “physical condition” improvements, not related to SSO and CSO mitigation, to maintain the integrity of the existing facilities and process equipment, such as electrical, HVAC, structural, and hydraulic infrastructure. Planned improvements also include security upgrades and fire protection in select buildings.

Feedback received from the County was incorporated into the Basis of Design Report prior to submission in September 2015. The final design phase for the upgrades and expansion of the WPCP began in the 3rd Quarter of 2015.

The County and Consultant Team understand the NYSDEC has not finalized the future phosphorus effluent limit for the WPCP. As part of the final design phase for the upgrades and expansion of the WPCP, the Consultant

Team will develop a comparison of appropriate phosphorus removal technologies based on an anticipated effluent phosphorus limit in the range of 0.2 mg/L to 1.0 mg/L.

2.3 SAUQUOIT CREEK PUMP STATION/FORCE MAIN

During the 3rd Quarter of 2015, the Consultant Team (lead by Brown and Caldwell) continued with final design on the SCPS and force main upgrades as well as advancing the design toward 90% completion. Peer review comments from team members were addressed. A value engineering exercise was completed and resulted in several cost saving reductions, most notable the elimination of one section of horizontal directional drilling. This required coordination with the local railroad company because the modified force main alignment is routed through a portion of their property. Also, a decision was made to separate the design into two construction contract packages. One contract package will include the installation of the new 48-inch force main and required upgrades at the WPCP. The second contract package will include the SCPS new screen building, standby generator, and upgrades inside SCPS.

The major components of the design include:

- Replacement of the existing pump station mechanical screen with two (2) new redundant screens housed in a new screen building. Two (2) screenings washer/compactors will be provided and a screenings conveyor system will carry screenings to a dumpster area.
- Replacement of the existing standby generator with a new outdoor standby generator capable of operating the station to pump peak flow during a power outage.
- Upgrades to the existing pump station electrical and HVAC systems.
- New 48-inch force main and rehabilitation of the existing force main. New flow metering and flow control vaults are being provided along the force main route.
- New split flow distribution structure at the WPCP to be used to distribute 5 mgd of flow directly to the WPCP aeration tanks.

The County and Consultant Team have been coordinating with the project land surveyor regarding acquisition of future construction and permanent easements in conjunction with the new force main construction. In addition, the County retained the services of an abstract company to perform title research for each property in which easements will be obtained. Easement and title/abstract work is underway at this time.

The wetland permitting process is also in progress. The Joint Application for Permit along with supporting documentation has been prepared in draft form for review. The application will be submitted to the Army Corps of Engineers and NYSDEC upon completion of the application plan/profile sheets for the new force main. The Cultural Resources Assessment was completed and submitted to the NYS Office of Parks, Recreation, and Historic Preservation during the 1st Quarter of 2015 and final determination has been received (“no further action required”).

3.0 MANAGEMENT PROGRAMS

3.1 COMPUTERIZED MANAGEMENT AND MAINTENANCE SYSTEM

The County purchased a Computerized Management and Maintenance System (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. The County's geographic information system (GIS) coordinator manages the system.

The County continues to utilize the CMMS for tracking and documenting sewer rehabilitation work, and uploading and managing new PACP data provided by the County's CCTV and sewer rehabilitation contractors on a regular basis.

The Consultant Team utilizes the CMMS in support of the sanitary sewer rehabilitation design efforts as a means to identify defects and develop rehabilitation methodologies.

The County continues to maximize the use of its current CMMS software. At the same time, the County, with the assistance of the Consultant Team, continues to assess ways to optimize the CMMS with the long term expanded asset management needs for the wastewater system. As a result, the County has begun to explore potential alternative software, and on June 16, 2015 hosted a web presentation by another software vendor. It is anticipated this research of alternative software systems will continue as opportunities become available.

3.2 FLOW MONITORING PROGRAM

The County worked closely with the Dormitory Authority of the State of New York to secure the \$950,000 Economic Development Assistance Program (EDAP) funding allocation that will support the extensive flow monitoring program proposed by the County and approved by NYSDEC on August 24, 2012. The process for acquiring this funding was very tedious but progressed through the various review processes within the State Government in Albany. In the absence of the EDAP funding, the County made the decision in September 2013 to proceed with the finalization of bidding documents for the procurement of the flow monitoring equipment using various sources of interim borrowing within the District operating budget.

Funding was allocated in March 2014 and bidding documents for procurement of the flow monitoring equipment were advertised on June 9, 2014. Contract was awarded on September 10, 2014 to ADS Environmental Services, LLC (ADS). ADS completed the installation of 59 flow meters and five (5) rain gauges during the 1st Quarter of 2015. During the 2nd Quarter of 2015 an additional 4 flow meters were installed. Two of the meters were installed to monitor flow to the County's Barnes Ave Pumping Station, and the other two are used to monitor flow in two of the City of Utica's combined sewers to aid in hydraulic model calibration and confirmation. Throughout the 2nd and 3rd Quarters of 2015, all flow meters and rain gauges were reliably collecting flow data.

The County and ADS are developing a training session to be held October 27 and 28, 2015. The session is intended to train County staff in the use of ADS' "Slicer" software, which will be used to analyze dry and wet weather flow, and allow the County to assess the effectiveness of I/I removal projects. ADS will also compare the flow meter data obtained as a result of the 2008 temporary flow monitoring program to data collected through the current flow monitoring program, particularly in those areas where sewer rehabilitation have occurred.

3.3 PRIVATE PROPERTY INFLOW AND INFILTRATION REDUCTION PROGRAM

The document titled "Preliminary Planning Document – Private Property Inflow and Infiltration Reduction Program" was submitted to NYSDEC on June 29, 2012 as required by Schedule A - Section B.2 of the Consent Order. The County, working through the Steering Committee, created a working group of appropriate private property inflow and infiltration (PPII)-oriented community representatives to map out a phased implementation plan.

Conceptual design of a pilot PPII reduction project was initiated in the 3rd Quarter of 2015. This conceptual design and a project estimate will be presented to the Town of Paris for review, and project financing will be sought.

3.4 CAPACITY, MANAGEMENT, OPERATIONS AND MAINTENANCE PROGRAM

The document titled “Preliminary Planning Document – Proposed CMOM Framework – Sauquoit Creek Pumping Station Basin Communities” was submitted to NYSDEC on June 29, 2012 as required by Schedule A – Section B.3 of the Consent Order. The County, working through the Steering Committee, created a working group of appropriate CMOM-oriented community representatives to map out a phased implementation plan.

During the 3rd quarter, a training opportunity was provided through the CMOM Working Group to all departments of public works, codes and/or sewer department employees from District municipalities. The training was held September 10, 2015. The goal of the training was to provide the required 2-hour OSHA Asbestos Awareness course to municipal workers that may be exposed to asbestos-containing materials (ACM) or presumed asbestos containing materials (PACM). Many of the District municipalities maintain sanitary sewer pipeline comprised of asbestos-cement. Asbestos awareness training is required for employees whose work activities may require them to come in contact with, but who do not disturb, ACM or PACM during their work activities (Class IV operations). In total, nine individuals participated in the training, representing the villages of Clayville and Yorkville, and the towns of Deerfield, Paris and Schuyler.

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 3rd Quarter of 2015):

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
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 II	April 30, 2013
Sewer CCTV Inspection Report – Phase III	April 30, 2014
Collection System Supplement (Report)	May 31, 2014 (extension granted to July 1, 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

Note: I/I – Inflow and Infiltration

4.2 MILESTONES

During the 3rd Quarter of 2015, the following milestone dates were met:

- No specific milestones defined/requested during the 3rd Quarter of 2015.

5.0 SEWER REHABILITATION

Design and construction for initial projects is being financed under CWSRF Project No.

C6-6070-08-00. Projects are tracked by contract number. The following is a status update of the current sewer rehabilitation contracts.

5.1 COMPLETED SEWER REHABILITATION CONTRACTS

Contract No.	Contract Title	Contract Description
2	Sanitary Sewer Manhole Rehabilitation – Phase 2	Rehabilitation of approximately 1,278 sanitary sewer manholes throughout the District.
3	Sanitary Sewer Mainline Rehabilitation – Phase 1	Rehabilitation of approximately 13 miles of sanitary sewers within the villages of New York Mills, Oriskany, New Hartford, Whitesboro, and Yorkville and the towns of New Hartford and Whitestown
4	Sewer Separation – Clinton/Henderson Street, NY Mills	Storm/Sanitary sewer separation
5	Sewer Repairs and Rehabilitation	Storm/Sanitary sewer repairs and rehabilitation; manhole replacement and UV-CIPP lining
6	Sanitary Sewer Mainline Rehabilitation – Phase 3	Rehabilitation of approximately 15 miles of sanitary sewer within the villages of New Hartford and Clayville, towns of New Hartford and Paris and the City of Utica.

5.2 CONTRACT 5 – SEWER REPAIRS AND REHABILITATION – PHASE 1

Work under Contract 5 generally includes storm sewer and sanitary sewer repairs for the purpose of removing inflow (both direct and indirect) sources from the sanitary sewer system in locations determined by the results of prior dye testing. This includes repairs at approximately 15 separate locations all within the Villages of Yorkville, Whitesboro, New York Mills, and New Hartford. Work also includes the replacement of four sanitary sewer manholes and the lining of four pipe segments utilizing an ultra-violet light cured-in-place pipe (UV-CIPP) process.

As of the 3rd Quarter of 2015, all contractual work under Contract 5 had been completed. The County is keeping the contract open for completion of other minor incidental work, and the additional work is expected to be performed by the contractor during the 4th Quarter of 2015, with project closeout thereafter.

5.3 CONTRACT 6 - SANITARY SEWER MAINLINE REHABILITATION – PHASE 2

The work under Contract 6, awarded to Green Mountain Pipeline Services, Inc. (GMPS) includes approximately 15 miles of sewer rehabilitation using cured in place pipe (CIPP) lining, open cut repairs, sewer joint grouting, CIPP short liners, and lateral grouting.

In addition to the work referenced above, GMPS' bid also included comprehensive sewer rehabilitation in flow basin NHD-22 at an estimated cost of \$248,152 which the Town of New Hartford has agreed to contract and pay for.

Similarly, GMPS' bid included 3,500 feet of 18-inch and 24-inch CIPP lining for the City of Utica in order to structurally rehabilitate a sanitary sewer under Genesee Street at an estimated cost of \$498,733. The City of Utica contracted directly with the Contractor for this work.

Contract 6 work is complete; it will be closed out in the 4th Quarter of 2015 pending receipt of post-rehabilitation CCTV data.

5.4 CONTRACT 7 - SANITARY SEWER MAINLINE REHABILITATION – PHASE 3

Contract 7 is similar in scope to Contracts 3 and 6. Contract 7 consists of CIPP lining, pipe grouting, lateral grouting, lateral lining, and spot repairs in selected areas. Contract 7 work is being conducted in two areas in the Town of Whitestown and one in the Town of New Hartford. Approximately 3.9 miles of pipe are being rehabilitated in the Glen Haven area, also known as a portion of sewersheds HHI-1 and WHN-31. In addition, approximately 2.8 miles of pipe are being rehabilitated in the sewershed known as WHN-33, which is the area westerly of the Whitesboro Parkway School, and southerly of Clinton Street. Approximately 6.5 miles of pipe is being rehabilitated in sewershed NHD-18 in the Town of New Hartford, in the Kellogg Road/Oxford Road area of New Hartford.

During the 3rd Quarter of 2015, the remainder of Contract 7 was completed, except for minor punchlist items. Contract 7 will be closed out in the 4th Quarter of 2015, pending receipt of post-rehabilitation CCTV data.

5.5 CONTRACT 8 - SANITARY SEWER MAINLINE REHABILITATION – PHASE 4

On February 12, 2015, bids for Contract 8 were opened, with the low bid submitted by National Water Main Cleaning Company (NWMC). On March 15, 2015, the County awarded Contract 8 to NWMC. Contract 8 rehabilitation will occur within NHD-23 sewershed in the Town of New Hartford, and will consist of mainly pipe grouting, lateral grouting, open cut, and spot repairs. A small amount of CIPP lining will also be performed. Approximately 13,700 LF of sanitary sewer will be televised and then rehabilitated as necessary. A total of 14 miles of pipe in the Town of New Hartford will be rehabilitated under Contract 8. In addition to New York State Environmental Facilities Corporation (NYSEFC) funding for Contract 8, a portion of the work was planned to be funded directly by the Town of New Hartford through its sewer fund. During subsequent discussions with the town, it has indicated it no longer has the funds available in its sewer fund for this work. The portion of Contract 8 that was set aside for the town will be added back in to the base bid by Change Order.

A Notice to Proceed was issued to NWMC on July 21, 2015 and construction began on July 28, 2015. Through the end of the 3rd Quarter of 2015, approximately 2.5 miles of CCTV was completed, approximately 1,800 sewer joints were tested and sealed, and approximately 350 laterals were tested and sealed. Work on Contract 8 is anticipated to continue through the 2nd Quarter of 2016.

5.6 CONTRACT 10 - SANITARY SEWER MAINLINE REHABILITATION – PHASE 5

On August 11, 2015, bids for Contract 10-Sanitary Sewer Mainline Rehabilitation Phase 5 were opened, with the low bid submitted by Green Mountain Pipeline Services, Inc. (GMPS). On September 9, 2015, the County awarded Contract 10 to GMPS.

Contract 10 rehabilitation work will occur in the sewershed known as WHN32, and the Village of Whitesboro. WHN32 is generally located west of Henderson Street, north of Mud Creek, south of Clinton Street and east of Clinton Road in the Town of Whitestown and contains approximately 7.1 miles of pipe. It is anticipated that up to an additional 10 miles of pipe will be rehabilitated in areas of the Village of Whitesboro where rehabilitation has not previously been completed. Contract 10 is similar in scope to Contract 7, consisting of a mix of CIPP lining, pipe joint and lateral grouting, open cut repairs, spot repairs, and supplemental CCTV inspections.

It is anticipated that construction of Contract 10 will begin during the 4th Quarter of 2015.

5.7 CONTRACT 11 - SANITARY SEWER MAINLINE REHABILITATION – PHASE 6

Design of Contract 11-Sanitary Sewer Mainline Rehabilitation Phase 6 began and was completed during the 3rd Quarter of 2015. Contract 11 is similar in scope to previous mainline rehabilitation contracts, consisting of a mix of pipe joint and lateral grouting, open cut repairs, CIPP spot liner repairs, and supplemental CCTV inspections. There is no full length CIPP lining in Contract 11.

Contract 11 rehabilitation work will occur in the sewershed known as NHD-20. NHD-20 is generally located in the hamlet of Washington Mills, in the area of Chapman Road, Higby Road, and Mohawk Street and side streets in the Town of New Hartford and contains approximately 7.3 miles of pipe.

Contract 11 was advertised for bid on September 29, 2015, with bids due on October 27, 2015. Contract is expected to be awarded during the 4th Quarter of 2015 and work to commence in spring of 2016.

5.8 CONTRACT 12 - SANITARY SEWER MAINLINE REHABILITATION – PHASE 7

Preliminary design began for Contract 12-Sanitary Sewer Mainline Rehabilitation Phase 7 during the 3rd Quarter of 2015.

Contract 12 rehabilitation work is anticipated to occur in portions of the Village of New York Mills, Village of Yorkville, and the Village of Oriskany in areas not previously rehabilitated under other contracts. Contract 12 is similar in scope and size to Contract 10.

6.0 ASSESSMENT OF REHABILITATION EFFECTIVENESS

During the 3rd Quarter of 2015, the physical measurement mechanism (flow monitoring) for measuring the effectiveness of sewer rehabilitation was fully implemented, but no analysis of flow data has been completed. See Section 3.2 above for a discussion of the status of flow monitoring. Based on the completed work, and using estimated values of inflow and infiltration (I/I) removals provided in the Offset Plan and/or the approved Basis of Design engineering reports for the respective projects for Contracts 2, 3, 4, 5, 6, 7, 8, 10 and 11, the reductions in I/I are estimated to be:

Contract 2 – Sanitary Sewer Manhole Rehabilitation, Phase 2	5,411,910 gpd
Contract 3 – Sanitary Sewer Mainline Rehabilitation, Phase 1	1,503,360 gpd
Contract 4 – Sewer Separation – Clinton/Henderson St (NY Mills)	264,000 gpd
Contract 5 – Sewer Repairs and Rehabilitation	120,000 gpd
Contract 6 – Sanitary Sewer Mainline Rehabilitation Phase II	1,130,000 gpd
Contract 7 – Sanitary Sewer Mainline Rehabilitation Phase III (partially complete)	630,000 gpd (upon completion)
Contract 8 – Sanitary Sewer Mainline Rehabilitation Phase IV (partially complete)	249,000 gpd (upon completion)
Contract 10 – Sanitary Sewer Mainline Rehabilitation Phase V (to begin 4 th Quarter 2015)	1,120,000 gpd (upon completion)
Contract 11 – Sanitary Sewer Mainline Rehabilitation Phase VI (to begin Spring 2016)	260,640 gpd (upon completion)

7.0 COMPLETED CAPITAL PROJECTS/FACILITY UPGRADES

Contract 2 – Sanitary Sewer Manhole Rehabilitation: Project was completed/closed in 2014.

Contract 3 – Mainline Sewer Rehabilitation – Phase 1: Project was completed/closed in June 2015.

Contract 4 – Clinton Street Sewer Separation-New York Mills: Project was completed/closed in November 2014.

Remaining capital projects/facility upgrades are still active.

8.0 I/I OFFSET PROJECTS/NEW FLOWS

During the 3rd Quarter of 2015, 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	Location	Credits Used	Ending Balance
Town of New Hartford	521,901		Florence Ct. - Lot 25 (349.020-2-25)	240	505,317
			25 Cherrywood Blvd. (Cherrywood)	240	
			39 Deerpath Dr.	320	
			Extended Stay Hotel Middle Settlement Rd. Zangrilli Bldg. (316.016-6-64.2)	15,224	
			10 Dogwood Ln. (Cherrywood, 328.000-2-26)	240	
			40 Cherrywood Blvd (Cherrywood)	320	
Town of Paris	96,680			0	96,680
Town of Whitestown	135,426			0	135,426
Village of Clayville	28,829			0	28,829
Village of New Hartford	59,510			0	59,510
Village of New York Mills	163,787			0	163,787
Village of Oriskany	103,466			0	103,466
Village of Whitesboro	163,599			0	163,599
Village of Yorkville	160,282			0	160,282
Oneida County Business Park	43,027			0	43,027
Oneida County Sewer District	24,710			0	24,710
Totals	1,501,217	0		16,584	1,484,633

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 3rd Quarter of 2015, there were no changes of key personnel to report.

9.2 SATELLITE COMMUNITY STAFF

During the 3rd Quarter of 2015, there were no changes of key personnel to report.

9.3 CONSULTANT TEAM STAFF

During the 3rd Quarter of 2015, there were no changes of key personnel to report.

10.0 ADMINISTRATIVE ITEMS

10.1 WORK AUTHORIZATIONS

No new work orders were authorized during the 3rd Quarter of 2015.

10.2 PROJECT FINANCING

The following listing is from the CWSRF 2015 Final Intended Use Plan (IUP) for the County:

CWSRF PROJECT #	PROJECT NAME	TOTAL IUP AMOUNT
C6-6070-08-00	I/I CORR [9 CONTRIBUTING COMMUNITIES] Phase 1 and 2a	\$25.8 million
C6-6070-08-01	I/I CORR [SSO - 9 Contributing Communities] Phase 2b-3	\$59.5 million
C6-6070-08-02	FM, PS REHAB [DESIGN AND PERMITTING PHASE] Phase 5a	\$3 million
C6-6070-08-03	I/I CORR [SSO] Phase 4	\$9.52 million
C6-6070-08-04	Wastewater Improvements [CONSTRUCTION PHASE] Phases 5b and 6c	\$91.8 million
C6-6070-08-05	STP UP (Phases 6a and 6d)	\$94.6 million
C6-6070-08-06	STP UP [SOLIDS HANDLING SYSTEMS DESIGN AND CONSTRUCTION]	\$35 million

10.2.1 Construction of the Sauquoit Creek Pump Station, New Forcemain and WPCP Solids Handling Upgrades (CWSRF No. C6-6070-08-04)-\$117 Million

The CWSRF application for financing was submitted to NYSEFC on February 27, 2015. The State Environmental Quality Review process, including a Coordinated Review, was completed by the County with a Determination of Significance (Negative Declaration) issued July 8, 2015. Approval of the financing is moving through various NYSEFC and State Boards. A late Fall 2015/Early Winter 2016 closing is anticipated.

10.2.2 I/I Corrections (SSO – 9 Contributing Communities) Phase 1-2a: Long Term Financing

NYSEFC and Oneida County advanced the coordination of long term financing for that portion of the \$25.8 million financing that has been expended/encumbered. An August 20, 2015 closing occurred. The balance of unexpended/unencumbered funds in the amount of \$11,586,562 was rolled into a new short term financing at that time (New CWSRF No. C6-6070-08-10). Those monies will continue to be used for sewer rehabilitation and related purposes as stated in the original financing agreement.