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Onondaga Lake
Amended Consent Judgment Compliance Program Monthly Report

March 2012

Onondaga County Department of WATER ENVIRONMENT PROTECTION

Joanne M. Mahoney,
County Executive

ONONDAGA COUNTY DEPARTMENT OF WATER ENVIRONMENT PROTECTION

VISION

To be a respected leader in wastewater treatment, storm water management, and the protection of our environment using state-of-the-art, innovative technologies and sound scientific principles as our guide.

MISSION

To protect and improve the water environment of Onondaga County in a cost-effective manner ensuring the health and sustainability of our community and economy.

CORE VALUES

E*xcellence*

T*eamwork*

H*onesty*

I*nnovation*

C*ost-Effectiveness*

S*afety*

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Project Progress for the Month of March

Report from Commissioner

The two focus issues for this month's report are the Suburban Green Improvement Grant and the draft Total Maximum Daily Load for Phosphorus in Onondaga Lake.

1. Suburban Green Grants

   The suburban green grants were established by the County Executive in 2011. Recognizing the successes of using green infrastructure to resolve wet-weather flow conditions in the combined sewer shed (combined sewer = the conveyance of both storm and sanitary sewer), the county executive proposed $3,000,000 in grants for the suburbs. The Onondaga County Legislature affirmed the grant program with the proviso that each application for funding would need to be approved by the legislature after the review by WEP and the recommendation by the County Executive for award, by resolution #451 of 2011.

   As a reminder, here are several of the grant fundamentals:

   - Source of Funds

     The funds for this program are the Onondaga County Sanitary District charges. These funds are not from the county general fund. The grants are not paid by the real property tax or sales taxes. This grant is paid by the sewer use fees.

   - Purpose of the Grants

     The grants are to aid in the mitigation of inflow and infiltration into the sanitary sewer system. The primary problem to be managed will be to capture and retain storm water so it does not enter the sewer system. Managing this inflow and infiltration (I & I) reduces the flow to pump stations and treatment facilities, thereby reducing energy consumption, treatment chemicals, and the number of wet-weather impairments to treatment. These grants serve to reduce I & I by capturing storm water through the use of green technologies such as porous pavements, rain gardens, rain barrels, plantings, bioretention, infiltration trenches, and pavement reduction.

   - Eligible Municipalities

     Since this work is being funded by the sewer use fees, the only eligible communities are those that are in the consolidated sanitary district.

   - Public Works

     The Suburban Green Grants is limited to public infrastructure on public property, with the sole exception that rain barrels would be grant eligible on private property. All other grants must be located on property owned by the eligible municipality.

   - Status Report on Applications:

     Applications were received by WEP through March 30, 2012. We received seventeen (17) applications from thirteen (13) municipalities for grant projects in the suburban sanitary sewer district. The funding requests total slightly in excess of $3,970,000. The parameters of the grant are to award a total of $3,000,000 in suburban green projects for the express purpose of reducing inflow and infiltration in the sanitary sewer system. These applications are still being reviewed by WEP for completeness, eligibility, accuracy, and efficiency.

It is anticipated that next month the Department of Water Environment Protection will be presenting the projects approved by the County Executive for subsequent approval by the legislature.

2. Total Maximum Daily Load for Phosphorous in Onondaga Lake

The New York State Department of Environmental Conservation (NYSDEC) issued its draft Total Maximum Daily Load document by publication in the Environmental Notice Bulletin on March 28, 2012. Comments on the TMDL will be accepted by the DEC until April 27, 2012.

The final TMDL establishes new phosphorous limits for the Metropolitan Wastewater Treatment Plant as well as the Municipal Separate Storm Sewer Systems (MS4's), the Concentrated Animal Feeding Operations (CAFOs), and all the other wastewater, combined sewer overflow, and industrial and non-point sources in the Onondaga Lake watershed.

A copy of the DEC's fact sheet on the TMDL is attached to this report for reference. The county departments of Office of Environment and Water Environment Protection intend to submit comments by the April 27, 2012 deadline.

Respectfully Submitted,

Tom Rhoads P.E.,
Commissioner

Attachment: TMDL Fact Sheet

NEW YORK STATE
DEPARTMENT OF
ENVIRONMENTAL CONSERVATION

Onondaga Lake Phosphorus TMDL

The draft phosphorus Total Maximum Daily Load (PDF) (3.34 MB) is now available. DEC will accept comments on the draft TMDL until April 27. The March 28, 2012 Environmental Notice Bulletin has instructions for submitting comments.

DEC is currently updating the phosphorus Total Maximum Daily Load (TMDL) for Onondaga Lake as allowed by the 1998 Amended Consent Judgment (see the *Onondaga Lake Background Information* section below for more information). Incorporating data gathered since 1998 -- when the original TMDL was approved -- and using sophisticated water quality models, the updated TMDL will better account for the variety of point and nonpoint sources of phosphorus in the Lake's 285 square mile watershed.

The following table lists sources of phosphorus in Onondaga Lake that are included in the updated TMDL. Click the links to visit DEC webpages with general information about individual sources (not specific to Onondaga Lake).

Sources of Phosphorus in Onondaga Lake

Point Sources	Nonpoint Sources
Wastewater treatment plants	Stormwater runoff
Combined sewer overflows (CSO)	Agriculture runoff
Municipal Separate Storm Sewer Systems (MS4)	Household septic system
Construction & industrial stormwater discharges	Natural sources
Concentrated Animal Feeding Operations (CAFO)	

TMDL Development Timeline

Begun in January 2010, the TMDL update process is expected to be finished by June 30, 2012 and will include a public comment period.

TMDL Development Timeline

Task Name	Approximate Timeframe	Description
Problem Description/Numerical Targets	Complete	Using water quality data and models to account for the point and nonpoint sources of phosphorus, DEC identified a goal for phosphorus levels in Onondaga Lake.
Pollutant Sources	Complete	DEC used a USGS water quality model to identify sources of phosphorus in the Lake.
Pollutant Load Allocations	Complete	DEC determined how the total phosphorus load will be divided amongst point and nonpoint sources.
Draft TMDL	March 28, 2012	DEC publishes the draft TMDL in the Environmental Notice Bulletin (ENB).
Public Comment Period	March 28 - April 27, 2012	A 30-day public comment period begins when the draft TMDL is published in the ENB.
Incorporate Public Comments and Submit TMDL to EPA	May 2012	DEC reviews and incorporates public comments and submits the TMDL to EPA for review.

EPA Approval Process	June 2012	EPA reviews and comments on proposed TMDL.
TMDL Implementation and Compliance	Begins July 2012	After EPA approval, DEC implements the TMDL and works with stakeholders to ensure compliance.

Onondaga Lake Background Information

Pollution control efforts, including upgrades to the Metropolitan Syracuse Wastewater Treatment Plant (METRO), have greatly improved water quality in Onondaga Lake and ongoing cleanup work is addressing contamination left over from decades of industrial pollution. In fact, phosphorus levels in Onondaga Lake met the statewide guidance value of 0.02 mg/L in 2008 and 2009. Improvements to METRO have decreased ammonia loading enough that the Lake is meeting the ammonia standard.

Despite the substantial gains made so far in Onondaga Lake, much work remains. For example, phosphorus levels during the 2010 summer growing season exceeded the guidance value. DEC expects the updated TMDL to help the Onondaga Lake Partnership develop methods for meeting the phosphorus guidance value, while continuing the recovery process.

In addition to phosphorus and ammonia, other pollutants that negatively affect water quality in Onondaga Lake include dioxins, mercury, PCBs and pathogens.

The dioxins, mercury and PCBs left over from years of industrial pollution are being addressed by the cleanup work at the Onondaga Lake Superfund Site. Pathogens enter the Lake when combined sewer overflows (CSOs) allow untreated waste to flow into the Lake and its tributaries. The 1998 Amended Consent Judgment required Onondaga County to control and reduce CSOs. DEC expects the CSO control project to help address the pathogen pollution in Onondaga Lake.

Onondaga Lake Timeline

The following timeline describes a few important events related to the phosphorus TMDL:

- In 1988, Atlantic States Legal Foundation (ASLF), joined by DEC, filed a lawsuit against Onondaga County for violations of the federal Clean Water Act and the New York State Environmental Conservation Law. A judgment resulted, requiring Onondaga County to perform a series of studies to determine if the wastewater treatment performance at METRO could be improved with advanced treatment techniques. Other studies focused on advanced treatment techniques to reduce pollutants from combined sewer overflows in the area.
- By 1996, Onondaga County determined that advanced treatment techniques would improve METRO's performance. A plan addressing improvements to METRO and the CSOs was submitted to ASLF and DEC early that year.
- In 1998, ASLF, DEC and Onondaga County reached an agreement, known as the Amended Consent Judgment (ACJ), on a timeline for the County to implement the improvements identified in 1996.
- Also in 1998, DEC developed a phosphorus TMDL that required reductions in phosphorus inputs, focusing on METRO and CSOs, to achieve a 0.02 mg/L level of phosphorus in the Lake.
- By June 30, 2012, DEC expects to update the 1998 phosphorus TMDL. The revision will use data gathered by DEC and Onondaga County, which monitor Onondaga Lake, its tributaries, and METRO. The revision will also incorporate lake and watershed models supported by the Onondaga Lake Partnership to help identify and estimate phosphorus loads from all sources in the Onondaga Lake watershed.

Note: The 1998 Amended Consent Judgment originally set a deadline of January 2009 to update the phosphorus TMDL. In 2009, a federal judge moved the deadline to December 31, 2011. The deadline has since been extended to June 30, 2012.

GRAY PROJECTS UPDATE

Gray Projects Update

Progress of Projects Under Construction

Harbor Brook Interceptor Sewer (HBIS) Replacement and CSO Abatement Project (Construction Phase)
In March the contractor completed the abandonment of existing interceptor and performed necessary maintenance on the new manhole to address any problems or issues, thereby making the new interceptor complete and in service. In addition, work began on the Delaware Rain Garden with some preliminary site work. To date the project has installed 7,503 LF of new 18" to 36" interceptor sewer between Velasko Road and West Fayette Street on the west side of Syracuse. In addition, 5,222 LF of new local sewers was installed, ranging in size from 8" to 42" in diameter. The sewer installation is 99 percent completed and the project overall is approximately 92 percent complete. The project is anticipated to be completed by July 2012.

Midland CSO 044 Abatement Project (Construction Phase)
Construction work continued on the 96" CSO conveyance pipeline that will connect CSO 044 in South Avenue to the Midland RTF. In March the contractor continued general site cleanup activities and the installation of the flushing gates for both Chamber A and B. All work, including restoration, is anticipated to be complete in June of 2012.

Clinton CSO Storage Facility Project (Construction Phase)
In March the contractor continued construction activities associated with the storage facility that will collect 6 million gallons of combined sewage from 8 downtown Syracuse CSOs during wet-weather events. The contractor completed installation of the north and south side cut off wall, East Chamber. Work continued on the jet columns and collar beam for the West Chamber as well as the dewatering wells, piezometers, and inclinometers for the 84" conveyance sewer and the West Chamber.

Lower Harbor Brook CSO Conveyance Project (Construction Phase)
The contractor completed the site clearing and grubbing and began to install the new CSO 003 regulator sewer in Hiawatha Blvd. between Harbor Brook and State Fair Boulevard. The project will transmit combined sewage from CSOs 003 (Hiawatha Boulevard) and 004 (State Fair Boulevard) to the new storage facility to be constructed on State Fair Boulevard and from CSO 063 in the future.

Lower Harbor Brook CSO Storage Facility Project (Construction Phase)
In March the contractor continued to install sheeting and bracing for the 60" conveyance line and the diversion chamber. The chamber will be the convergence point for the flow from CSOs 003, 004, and 063 prior to entering the facility. In addition, the contractor conducted testing for the utilities building foundation piles. The storage facility will store combined sewage from the three CSOs during storm events and transmit the sewage after the storm to Metro via the HBIS.

CSO 022/045 Sewer Separation Project (Construction Phase)
The general contractor, Joseph J. Lane Construction, began and completed the sewer work in CSO area 045 on Rich Street; Crescent Avenue; Hudson Street; and West Castle Street. J.J. Lane also completed work in CSO Area 022 including the 36" sewer replacement and the new 12" sanitary sewer installation on West Genesee Street between Wallace and Willow. The project will provide for the separation of sanitary and storm flow in CSO areas 022 (located in downtown Syracuse near West Genesee and Franklin streets) and 045 (located just west of South Avenue near Onondaga Creek. Once complete, the discharge of combined sewage from these two basins will be eliminated, and all sanitary sewage will be transmitted to Metro via the Main Interceptor Sewer (MIS).

Project:	Clinton CSO Storage
Project Owner:	Onondaga County
Project Location:	Trolley Lot, Syracuse
Sewershed:	Clinton/Lower MIS
Technology:	Storage Facility
Capacity:	6,000,000 gallons
CSO Capture:	114,000,000 gal/yr
# CSOs Abated:	8
Completion Date:	12/ 31/13
Contract amount:	$70,640,000
Bid Date:	7/14/11
Prime Contractor:	Jett Industries

FACT SHEET
Clinton CSO Storage Facility

Project Description: The Clinton CSO Storage Facility Project is a 6 million gallon combined sewer overflow storage facility that will be constructed in the parking area between the elevated rail tracks and Onondaga Creek just south of the Armory Square area of downtown Syracuse (formerly known as the Trolley Lot). During wet weather events, the facility's three, parallel 18-foot diameter, underground storage tunnels will capture flow from 8 combined sewer overflows (CSOs) in the vicinity of the former Trolley Lot. The wastewater will be stored in the tunnels until it can be conveyed via the main interceptor sewer to the Syracuse Metropolitan Sewage Treatment Plant (Metro) for treatment. The off-site conveyance piping, which will transmit the flow to the facility, was installed under the Clinton CSO Phase 1 and 2A conveyances projects completed in 2009. There will be additional on-site conveyance piping installed under this project to connect the existing sewers to the new facility. In addition to the tunnels, there will be two above-ground structures located at either end (east and west) of the parking lot which provide access to the tunnels and house the pumping, grit collection, and odor control facilities.

Green Components: To further enhance the sustainability of the facility, the project includes green infrastructure components. The stormwater runoff from the entire site that measures approximately 275,000 square feet or 6.3 acres will be managed by green infrastructure. The stormwater from the area surrounding the main structure on the western half of the site will be collected by a series of catch basins and stormwater piping that will outfall into two bioretention basins. The bioretention basins will allow the stormwater to infiltrate into the ground rather than immediately runoff to the creek. In addition, stormwater runoff from the eastern half of the project site, to be restored as a parking area, will be directed to a subsurface collection facility and used to flush the storage tunnels to clear them of grit and debris that may have settled or been left behind after the stored combined sewage was transmitted to Metro. In addition, a green roof will be installed on the west building.

Construction Update: In March, the contractor continued construction activities associated with the storage facility that will collect 6 million gallons of combined sewage from 8 downtown Syracuse CSOs during wet weather events. The contractor completed installation of the north and south side cut off wall the East Chamber. Work continued on the jet columns and collar beam for the West Chamber, as well as the dewatering wells, piezometers, and inclinometers for the 84" conveyance sewer and the West Chamber.

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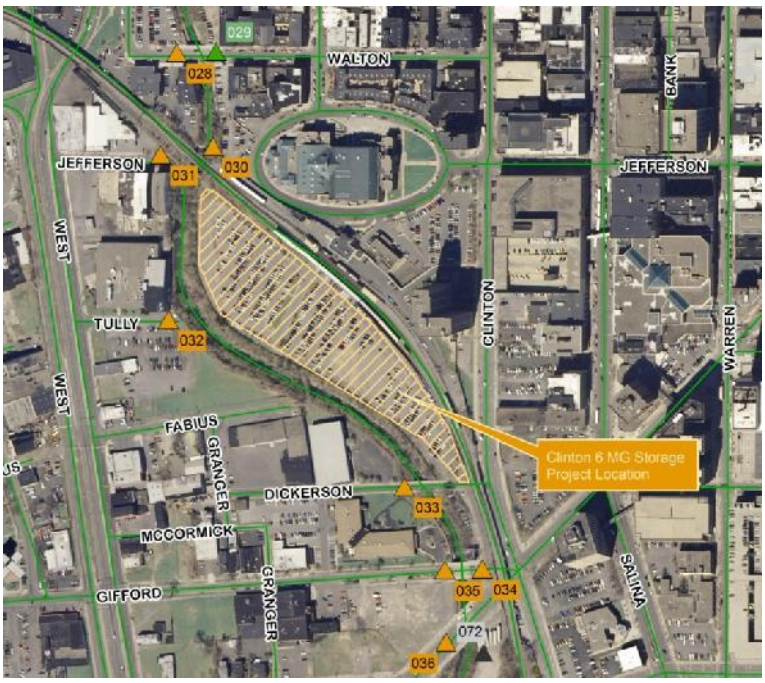
Clinton CSO Storage Facility – Construction Progress Feb 28, 2012



Project Location Map

Clinton CSO Storage Facility Project Aerial View (January 11, 2012)

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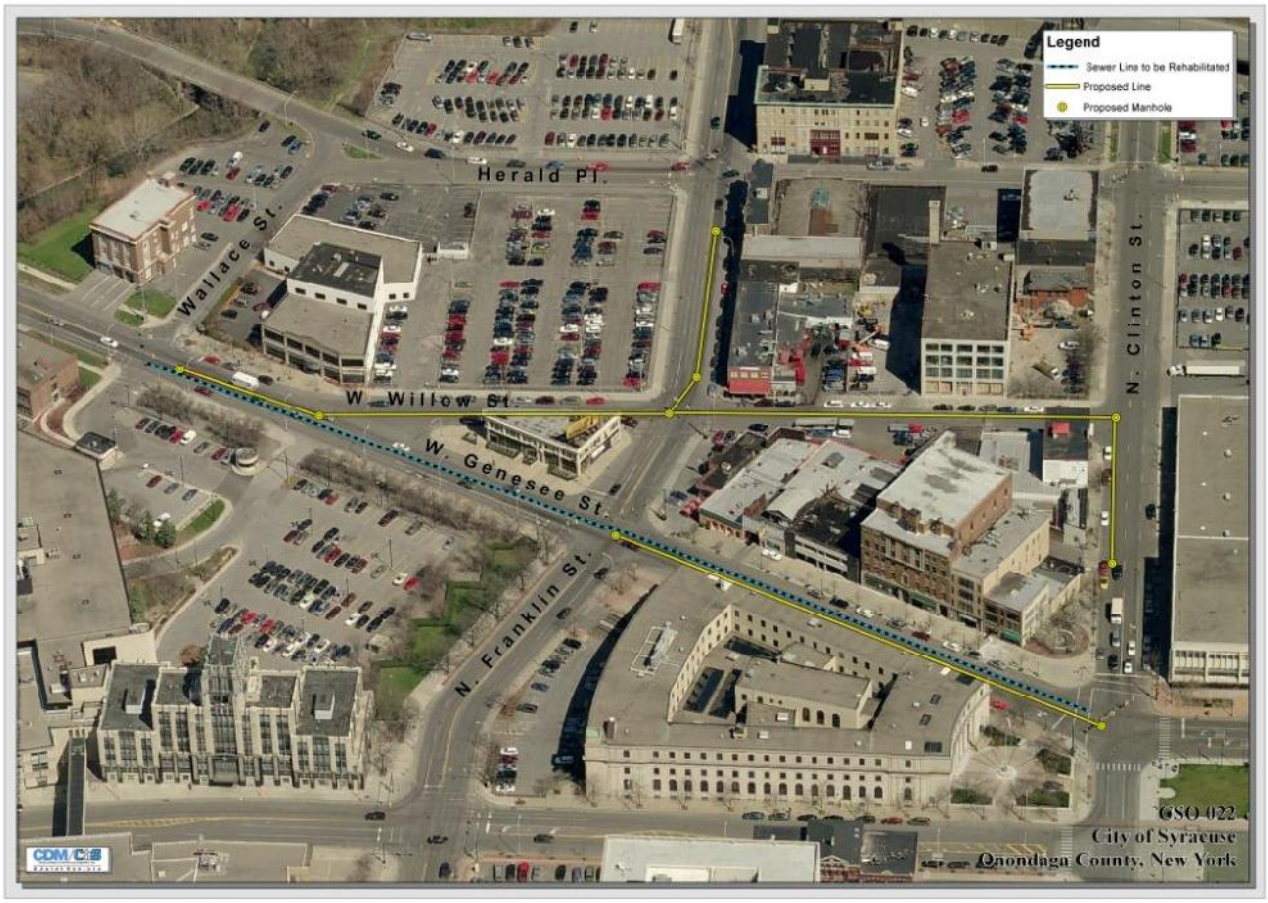
Project:	CSO 022/045 Sewer Separation
Project Owner:	Onondaga County
Project Location:	Syracuse
Sewershed:	Clinton/Lower MIS & Midland
Technology:	Sewer Separation
CSO Capture:	1,000,000 gal/yr
# CSOs Abated:	2
Completion Date:	12/ 31/12
Project Cost:	General - $4,581,888 Plumbing - $1,031,235
Bid Date:	November 29, 2011
Prime Contractor:	General – J. J. Lane Plumbing – Joy Process Mechanical

FACT SHEET
CSO Area 022 and 045 Sewer Separation Project

Project Description: In 2000, the separations of 13 separate CSO basins were designed to the 95 percent stage. The CSO areas represented basins whose full separation would be cost effective compared to other CSO abatement technologies. The remaining basins where the full separation has not been constructed were CSO areas 022 and 045. CSO area 022 is located in downtown Syracuse and the tributary sewers are located in North Franklin, West Genesee, and Willow streets. The proposed work to be performed includes 2,000 linear feet (LF) of new sanitary sewer; 800 LF of sewer lining; and twenty (20) internal building separations. CSO Area 045 is located south of downtown Syracuse with the outfall at the intersection of West Castle Street, Hudson Street, and Onondaga Creek. The combined sewage tributary to this outfall is conveyed by combined sewers located in Crescent and Hudson streets. The proposed work to be performed includes: 700 LF of new storm sewer in Hudson and Crescent streets, 1200 LF of sewer lining to convert the existing combined sewers in Crescent and Hudson streets to sanitary sewers, rehabilitation of the existing sanitary sewer in Rich Street between Hudson and Onondaga Creek, and one (1) private property separation.

Green Components: The County has successfully applied its "Greening the Gray" mission to the project through the implementation of Green Infrastructure as it related to the reconstruction of the Pocket Park on the corner of West Genesee and North Clinton Streets. The park had fallen into disrepair due to settlement issues and will be rehabilitated with green components under the CSO 022 project.

Project Update: In March 2012, he general contractor, Joseph J. Lane Construction, began and completed the sewer work in CSO area 045 on Rich Street, Crescent Avenue, Hudson Street, and West Castle Street. J.J. Lane also completed work in CSO Area 022 including the 36" sewer replacement and the new 12" sanitary sewer installation on West Genesee Street between Wallace and Willow. The project will provide for the separation of sanitary and storm flow in CSO areas 022 (located in downtown Syracuse near West Genesee and Franklin Streets) and 045 (located just west of South Avenue near Onondaga Creek). Once complete, the discharge of combined sewage from these two basins will be eliminated, and all sanitary sewage will be transmitted to Metro via the Main Interceptor Sewer (MIS).



CSO 045 Project Area

Version 3/31/2012

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Project:	CSO 044 Conveyances
Project Owner:	Onondaga County
Project Location:	Syracuse
Sewershed:	Midland
Technology:	Storage & RTF
CSO Capture:	6,000,000 gal/yr
# CSOs Abated:	1
Completion Date:	Partial - 12/31/11
Contract amount:	$7,978,282
Bid Date:	9/21/10
Prime Contractor:	J.J. Lane Construction

FACT SHEET
CSO 044 Conveyances Project

Project Description The CSO 044 Conveyances Project provides for the transmission of wet weather flow from CSO 044, which discharges to Onondaga Creek at South Avenue and West Castle Street, to the Midland Regional Treatment Facility (RTF) on the south side of Syracuse. Conveyance of the combined sewer flow to the Midland RTF will be via approximately 500 linear feet of 96-inch diameter pipeline between the terminus of the 144-inch pipeline installed under the Midland Phase II RTF and Conveyances Project to CSO 044.

CSO 044 Conveyances Construction
January 11, 2012

Green Components: In addition to the pipeline, the project will include the construction of a new regulator structure in South Avenue and two conveyance flushing chambers. The "Greening the Gray" components incorporated include the utilization of captured stormwater for the flushing chambers, the installation of rain gardens for stormwater infiltration, and an educational interpretive walkway.

Project Update: Construction continued work on the 96" CSO conveyance pipeline that will connect CSO 044 in South Avenue to the Midland RTF. In March, the contractor continued general site cleanup activities and the installation of the flushing gates for both chamber A and B. All work, including restoration, is anticipated to be complete in June of 2012.

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Project:	HBIS Replacement & CSO Abatement
Project Owner:	Onondaga County
Project Location:	Harbor Brook Corridor Fayette St. to Velasko Rd.
Sewershed:	Harbor Brook
Technology:	Interceptor Replacement
CSO Capture:	36,000,000 gal/yr
CSOs Addressed:	9
Completion date:	6/30/2012
Contract amount:	$21,536,849
Bid Date:	11/2/09
Prime Contractor:	J.J. Lane Construction

FACT SHEET
Harbor Brook Interceptor Sewer (HBIS) Replacement and CSO Abatement Project

Project Description: The HBIS Replacement Project provides for a much needed upgrade to the existing Harbor Brook Interceptor between West Fayette Street and Velasko Road on the west side of Syracuse. This length of the interceptor sewer conveys dry weather flow and a portion of the combined flow from CSOs 009, 010, 011, 013, 014, 015, 016, 017, and 018 for conveyance to Metro for treatment. The existing interceptor is a U-shaped cast-in-place concrete pipe constructed in the 1920s and has fallen into disrepair. Due to the shape and age of the HBIS, flow restrictions have developed which have decreased capacity and increased infiltration in some areas. The project includes the installation of 7,600 linear feet (LF) of new HBIS ranging in size from 18- to 36-inches in diameter, 1,500 LF of new local sewers, rehabilitation of 860 LF of 30-inch brick sewer, installation of 4 new regulator manholes, and rehabilitation or replacement of 2500 LF of Harbor Brook Culvert. In addition, during construction the available funding allowed CSO Areas 013 and 016 to be completely separated which will increase CSO capture and eliminate two CSO discharge points. As a result, the capture projection for this project is anticipated to be 0.9 percent or 36 million gallons.

Green Components: In addition, the County has successfully applied its "Greening the Gray" mission to the HBIS Replacement Project. The GI components incorporated into this gray construction project include the installation of approximately 40 enhanced tree basins with infiltration zones and the construction of a bioretention area that will manage stormwater runoff from an area of approximately 3.2 acres. The enhanced tree basins will be located on Hartson, Herriman, and Hoeffler streets in the Skunk City area of Syracuse. The bioretention area will be located at the corner of Grand Avenue and Delaware Street and will contain a series of rain gardens and bioretention swales which will collect off-site runoff from impervious areas and manage the on-site stormwater as well. The site will have a "park-like" setting with an educational theme.

Construction Update: In March, the contractor completed the abandonment of the existing interceptor and performed necessary maintenance on the new manhole to address any problems or issues thereby making the new interceptor complete and in service. In addition, work began on the Delaware Rain Garden with some preliminary site work. To date the project has installed 7,503 linear feet (LF) of new 18" to 36" interceptor sewer between Velasko Road and West Fayette Street on the west side of Syracuse. In addition, 5,222 LF of new local sewers we installed, ranging in size from 8" to 42" in diameter. The sewer installation is 99% completed and the project overall is approximately 92% complete. The project is anticipated to be completed by July 2012.

New HBIS Alignment through Skunk City (in yellow)

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FACT SHEET
Lower Harbor Brook CSO Storage and Conveyances Project

Project:	LHB CSO Conveyances & Storage
Project Owner:	Onondaga County
Project Location:	State Fair Blvd., Syracuse
Sewershed:	Harbor Brook
Technology:	Underground Tank
Capacity:	4,900,000 gallons
CSO Capture:	55,000,000 gal/yr
# CSOs Abated:	3
Completion Date:	12/31/13
Contract Amount:	Conveyances – $4,147,888 Storage – $25,039,101
Bid Date:	Conveyances – 8/30/11 Storage – 10/18/11
Prime Contractor:	Conveyances – J.J. Lane Storage – C.O. Falter

Project Description: The Lower Harbor Brook CSO Conveyances and Storage Facility Project is a 4.9 million gallon combined sewer overflow storage facility that will be located on County owned property on State Fair Boulevard between Hiawatha Blvd. and West Genesee Street in the City of Syracuse. The facility will capture and store the overflows from CSOs 003, 004 and 063 for up to the 1-year, 2-hour design storm event. After the storm event subsides, the contents of the storage tank will be pumped to the existing Harbor Brook Interceptor Sewer for conveyance to the Metropolitan Treatment Plant (Metro) for full treatment. The project also includes construction of CSO conveyance pipelines on State Fair Blvd., Hiawatha Blvd., and Erie Blvd. to convey combined sewage from the overflow regulators to the storage tanks during rainfall and snowmelt events. Floatables and grit removal will be included in this facility. Odor control provisions will be incorporated into the facility design and the tank will be completely enclosed.

Green Components: To further enhance the sustainability of the facility, the project includes green infrastructure components. The stormwater runoff from the rooftops of the storage tank and controls building will be stored within the CSO storage tank and used for a second and third cleaning flush of the tank. This water will ultimately be treated at Metro eliminating the need for this stormwater to be treated on-site. The stormwater storage is designed to capture the 100-year storm (5.2 inches) from the tank and the control building rooftop.

Project Update: *Conveyances* - The contractor completed the site clearing and grubbing and began to install the new CSO 003 regulator sewer in Hiawatha Blvd. between Harbor Brook and State Fair Boulevard. The project will transmit combined sewage from CSOs 003 (Hiawatha Boulevard) and 004 (State Fair Boulevard) to the new storage facility to be constructed on State Fair Boulevard, and from CSO 063 in the future.

Storage - In March the contractor continued to install sheeting and bracing for the 60" conveyance line and the diversion chamber. The chamber will be the convergence point for the flow from CSOs 003, 004 and 063 prior to entering the facility. In addition the contractor conducted testing for the utilities building foundation piles. The storage facility will store combined sewage from the three CSOs during storm events, and transmit the sewage after the storm to Metro via the HBIS.

Lower Harbor Brook CSO Storage Facility – View from State Fair Boulevard

Lower Harbor Brook CSO Storage Facility – View from the Northeast

Lower Harbor Brook CSO Storage and Conveyances Project Area

GREEN PROJECTS UPDATE

Green Projects Update

The month of March was filled with activity as the Save the Rain program has been gearing up for the 2012 construction season. Several projects are progressing through the design phase with quite a few scheduled for construction in early April.

Highlights from the month of March include the advancement of the Onondaga County Library green enhancement project. Renovations to Mundy, Petit, White, Hazard and Beauchamp library branches are on schedule to begin construction in early April. Progress is also being made with the Save the Rain Street Tree Enhancement Program. Community members have been informed of tree planting opportunities for their properties in anticipation of a comprehensive spring planting schedule.

In addition to the activity outlined above, final construction on several projects initiated in 2011 is currently underway. Finishing touches on the Otisco Street Green Corridor, Avery Ave Park Greening at Pass Arboretum, Sunnycrest Park Golf Course parking lot and the Civic Strip are on track for completion shortly.

2012 Green Projects Status Summary:

Projects Completed	0
Projects Under Construction	2
Projects in Contract Phase	5
Projects in Bid Phase	3
Projects in Final Design	8
Projects in 90% Design Phase	5
Projects in 50% Design Phase	12
Projects in Fieldwork Phase	19
Projects in Concept Phase	23
Other Projects	11
Total Projects (as of 3/31/12)	**88**

For more information on green projects, visit the Save the Rain website:
www.savetherain.us/green-projects

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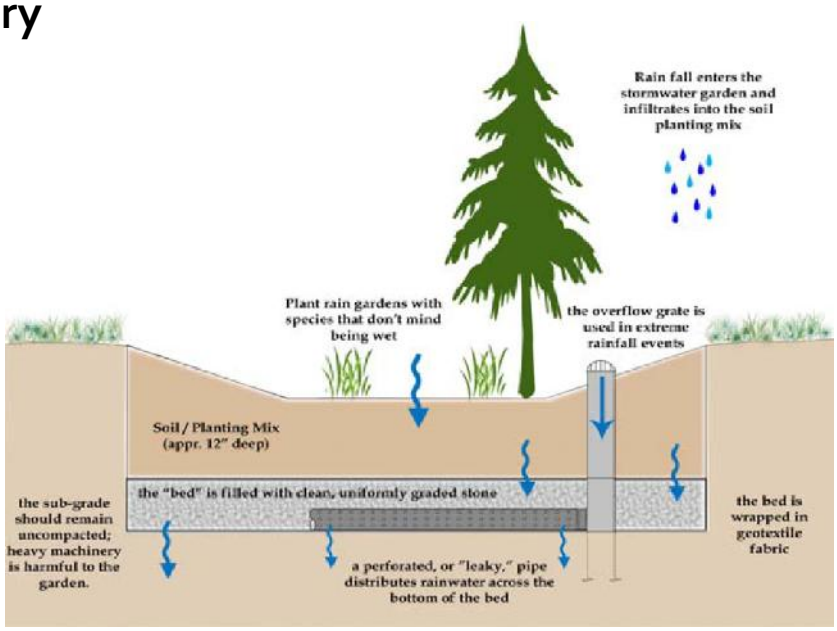
Project:	Beauchamp Library
Project Owner:	Onondaga County Public Libraries
GI Technology:	Bioretention / Rain Garden
Project Location:	2111 South Salina Street
Sewershed:	Midland
Capture Area:	15,000 sq. ft.
Run-off Reduction:	265,000 gal/yr
Year Contracted:	2012
Construction Cost:	$154,000 *(Engineer's Estimate)*
Bid Date:	04/02/12
Prime Contractor:	TBD

FACT SHEET
Onondaga County Public Libraries: Beauchamp Library

Project Description: The Beauchamp Library project is part of the Onondaga County Public Libraries (OCPL) "Green Library Initiative," a partnership between the Save the Rain program and OCPL to capture stormwater while providing aesthetic benefits to the libraries.

The Beauchamp Library project consists of installing a large bioretention area adjacent to the library building to capture runoff from the library roof, the main library parking lot and from East Colvin Street. In the conceptual rendering on the bottom right corner of this page, the green area represents bioretention area (also known as a rain garden) and the purple outlines the areas from which stormwater will flow into the garden.

The bioretention area is designed to capture this stormwater and have an overflow that does not allow water to pond more than 6 inches deep at any time. This green infrastructure project will capture approximately 265,000 gallons of stormwater annually.



Schematic of Bioretention Area

Conceptual Rendering of Beauchamp Library Project

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Joanne M. Mahoney
County Executive

FACT SHEET
Onondaga County Public Libraries: Hazard Library

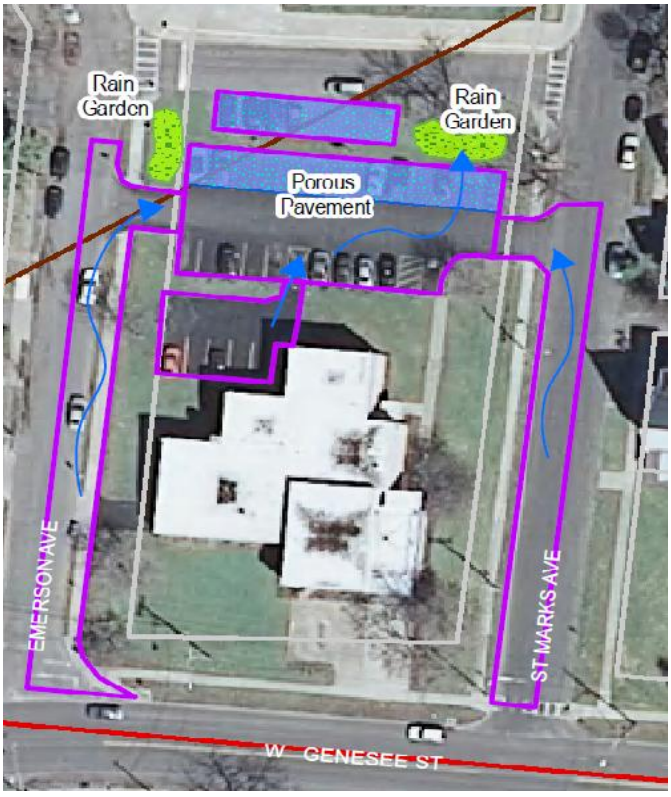
Project:	Hazard Library Site Improvements
Project Owner:	Onondaga County Public Libraries
Project Location:	1620 West Genesee St.
Sewershed:	Harbor Brook
GI Technology:	Porous Pavement, Bioretention
Capture Area:	21,000 sq. ft.
Run-off Reduction:	370,000 gal/yr
Year Contracted:	2012
Construction Cost:	$206,000 *(Engineer's Estimate)*
Bid Date:	04/02/12
Prime Contractor:	TBD

Project Description: The Hazard Library project is part of the Onondaga County Public Libraries (OCPL) "Green Library Initiative," a partnership between the Save the Rain program and OCPL to capture stormwater while providing aesthetic benefits to the libraries.

The Hazard Library Site Improvements project consists of porous concrete areas in the existing parking lot, as well as two new rain gardens at the edges of the parking lot to capture stormwater runoff from Emerson Ave. and St. Marks Ave. Beneath the porous concrete areas in the parking lot are infiltration beds that are connected via stormwater piping. The advantage to connecting these infiltration beds is that the piping between the infiltration beds will convey stormwater throughout the infiltration system. This will maximize the capture volume of this system. These green improvements contribute to a reduction of 370,000 gallons of stormwater from entering the combined system annually.

This will be the second Save the Rain project to be completed at the Hazard Library. In June 2011, the Hazard Library Green Roof project was bid and awarded to J&B Installations, who will be constructing the green roof in late spring 2012.

Photograph of Existing Parking Lot Prior to Construction



Conceptual Rendering of Hazard Branch Library Site Improvements Project

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County Executive

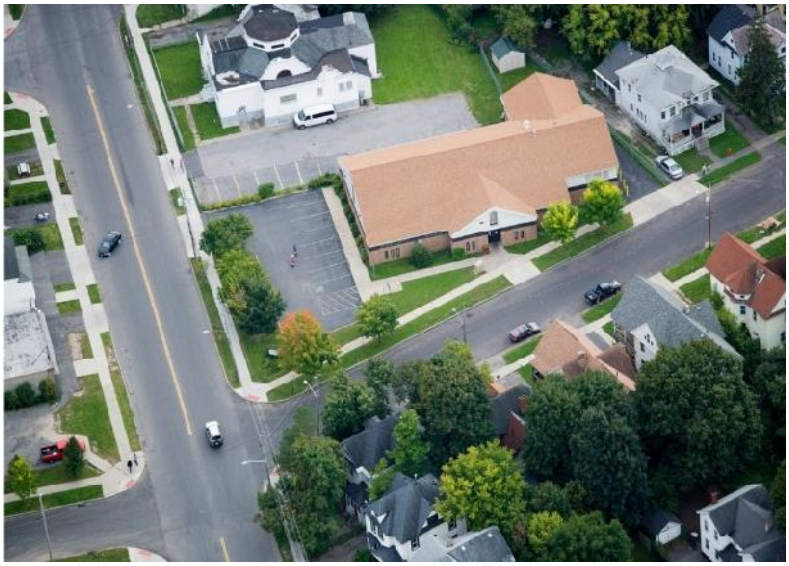
FACT SHEET
Onondaga County Public Libraries: Mundy Library

Project:	Mundy Library
Project Owner:	Onondaga County Public Libraries
Project Location:	1204 South Geddes St.
Sewershed:	Harbor Brook
GI Technology:	Porous Pavement, Tree Trench
Capture Area:	12,000 sq. ft.
Run-off Reduction:	215,000 gal/yr
Year Contracted:	2012
Construction Cost:	$210,000 *(Engineer's Estimate)*
Bid Date:	04/02/12
Prime Contractor:	TBD

Project Description: The Mundy Library project is part of the Onondaga County Public Libraries (OCPL) "Green Library Initiative," a partnership between the Save the Rain program and OCPL to capture stormwater while providing aesthetic benefits to the libraries.

The Mundy Library project consists removing the entire existing parking lot surface and installing a new porous concrete surface. The porous concrete areas are designed to allow stormwater to infiltrate through them into a subsurface infiltration bed. Stormwater piping will also be installed to capture runoff from portions of the roof of the library.

Additionally, a new tree trench will be installed along Rowland St. to capture street runoff. The tree trench will be installed with curb stormwater inlets to convey water from the street into the tree trench. In total, these green improvements contribute to a reduction of 215,000 gallons of stormwater from entering the combined system annually.



Aerial Photograph of Mundy Library Prior to Construction

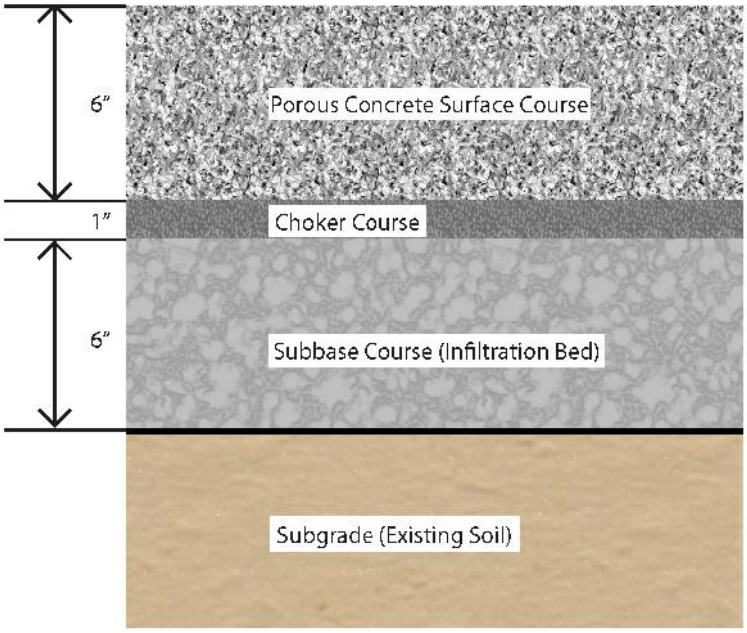
Conceptual Rendering of Mundy Branch Library Green Infrastructure Project

FACT SHEET
Onondaga County Public Libraries: Petit Library

Project:	Petit Library
Project Owner:	Onondaga County Public Libraries
Project Location:	105 Victoria Place
Sewershed:	Clinton/Lower MIS
GI Technology:	Porous Pavement, Roof Leader Disconnection
Capture Area:	14,000 sq. ft.
Run-off Reduction:	254,000 gal/yr
Year Contracted:	2012
Construction Cost:	$157,000 *(Engineer's Estimate)*
Bid Date:	04/02/12
Prime Contractor:	TBD

Project Description: The Petit Library project is part of the Onondaga County Public Libraries (OCPL) "Green Library Initiative," a partnership between the Save the Rain program and OCPL to capture stormwater while providing aesthetic benefits to the libraries.

The Petit Library project consists of porous concrete areas within the existing parking lots. Beneath the porous concrete areas are large stone infiltration basins designed to capture runoff from the whole parking lot. The two infiltration basins are also connected to an existing catch basin along Victoria Place, so that in the event of a large storm event, stormwater that exceeds the capacity of the infiltration basin systems will be allowed to overflow into the combined system.



Schematic of Porous Concrete and Infiltration Bed

Conceptual Rendering of Petit Branch Library Project

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County Executive

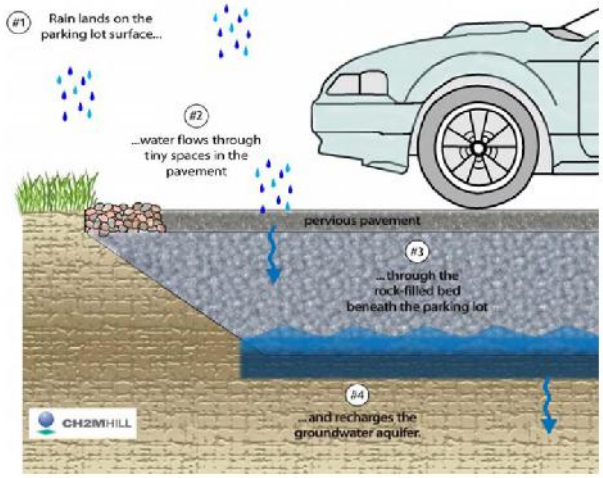
FACT SHEET
Onondaga County Public Libraries: White Library

Project:	White Library
Project Owner:	Onondaga County Public Libraries
Project Location:	763 Butternut Street
Sewershed:	Clinton/Lower MIS
GI Technology:	Porous Pavement, Rain Garden, Rain Barrel, Infiltration Trench
Capture Area:	24,000 sq. ft.
Run-off Reduction:	424,000 gal/yr
Year Contracted:	2012
Construction Cost:	$143,000 *(Engineer's Estimate)*
Bid Date:	04/02/12
Prime Contractor:	TBD

Project Description: The White Library project is part of the Onondaga County Public Libraries (OCPL) "Green Library Initiative," a partnership between the Save the Rain program and OCPL to capture stormwater while providing aesthetic benefits to the libraries.

The White Library project consists of a porous concrete area within the existing parking lot. The porous concrete area is designed to allow stormwater to infiltrate through them into a subsurface infiltration bed. Stormwater from the roof of White Library will be captured in two ways; (1) via rerouting roof leaders into a bioretention area, and (2) capturing stormwater in a rain barrel. The bioretention area will be constructed with a subsurface infiltration bed that will allow for the infiltration of stormwater into the ground. Another green improvement at White Library involves the removal of excess pavement in the existing parking lot, and installing a new infiltration trench to capture stormwater runoff from Peters St. These green improvements contribute to a reduction of 424,000 gallons of stormwater from entering the combined sewer system annually.

Conceptual Rendering of White Branch Library Green Infrastructure Project



Schematic of Porous Pavement and Infiltration Trench

Version 3/27/12

Save the Rain

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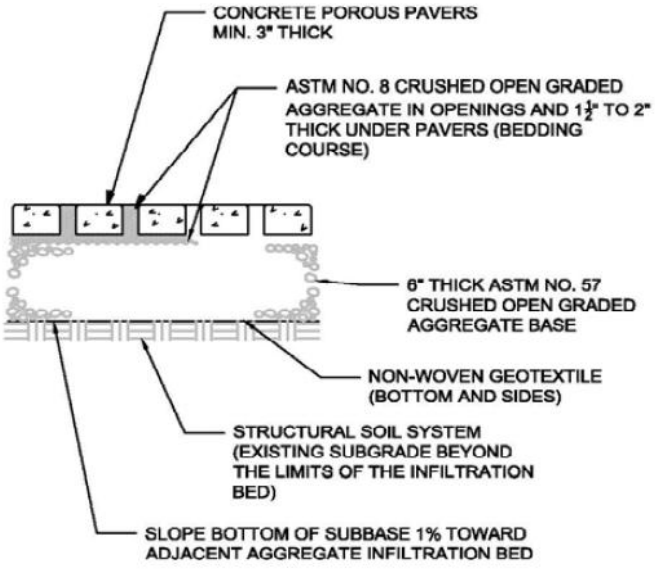
Joanne M. Mahoney
County Executive

FACT SHEET
Westcott Community Center

Project:	Westcott Community Center
Project Owner:	City of Syracuse Parks Dept.
Project Location:	822 Euclid Ave.
Sewershed:	Clinton/Lower MIS
GI Technology:	Porous Pavers, Rain Barrel
Capture Area:	9,000 sq. ft.
Run-off Reduction:	153,000 gal/yr
Year Contracted:	2012
Construction Cost:	$80,000 *(Engineer's Estimate)*
Bid Date:	04/30/12
Prime Contractor:	TBD

Project Description: The Westcott Community Center project is part of a larger 2012 Save the Rain initiative involving both County and City owned parks located within the combined sewershed.

The project consists of retrofitting an existing plaza area adjacent to the Community Center by removing the existing compacted soils and installing new porous pavers. The porous pavers and associated infiltration bed are designed to handle runoff from the roof of the building as well as from Westcott Street. Additionally, two new rain barrels will be installed in the rear of the building to capture runoff from a small portion of the roof. In total, this project captures 153,000 gallons of stormwater runoff annually.



Typical Porous Paver Installation Detail

Conceptual Rendering of the Green Infrastructure Project at the Westcott Community Center

Version 3/27/12

Save the Rain

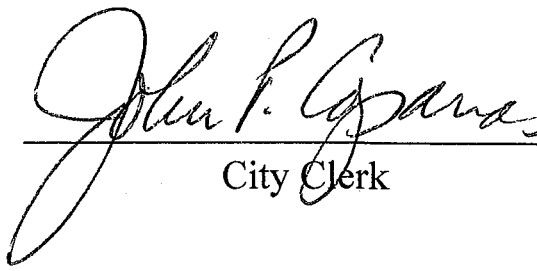
City of Syracuse

CITY CLERK'S OFFICE

I, JOHN P. COPANAS, City Clerk of the City of Syracuse, New York do hereby certify that the attached is a true copy of an ORDINANCE:

Adopted by the Common Council on March 12, 2012

Approved by the Mayor on March 13, 2012



City Clerk

TO:

Mayor
Assessment Commissioner
Aviation Commissioner
Board of Elections
Bureau of Accounts
Citizen Review Board
City Auditor
City School District
Code Enforcement
Neighborhood and Business Development
Finance Commissioner
Corporation Counsel
United States Congressperson
Governor of New York State
New York State Senate
New York State Assembly
New York State Senator
Onondaga County Legislature
Management & Budget Director
Parks & Recreation Commissioner
Personnel & Labor Relations Dir.
Police Chief
Public Works Commissioner
Public Works/Bookkeeper
Purchase Department
Real Estate Division
Research Director
Water Department
Zoning Administration
United States Senator
Department of Engineering
Finance/Treasury
Finance (Water Bureau)
Fire Chief
Grants Management Director
Board of Education

Ordinance No. 122 2012

AN ORDINANCE AMENDING ORDINANCE NO. 246-2011 AS LAST AMENDED BY ORDINANCE NO. 487-2011 AUTHORIZING THE COUNTY OF ONONDAGA AND THE ONONDAGA COUNTY SANITARY DISTRICT, (COLLECTIVELY "THE COUNTY") PURSUANT TO SECTION 3.4 OF THE INTERMUNICIPAL AGREEMENT ENTERED INTO BY AND BETWEEN THE CITY OF SYRACUSE, THE SYRACUSE URBAN RENEWAL AGENCY, THE SYRACUSE INDUSTRIAL DEVELOPMENT AGENCY, THE SYRACUSE CITY SCHOOL DISTRICT (COLLECTIVELY "THE CITY") ON OR ABOUT JULY 26, 2007, AND PARAGRAPH 13 OF AMENDMENT NO. 1 TO SAID AGREEMENT DATED ON OR ABOUT AUGUST 2009, TO ACCESS THE CITY PROPERTIES LISTED AT APPENDIX A TO INSTALL AND MAINTAIN GREEN INFRASTRUCTURE, INCLUDING BUT NOT NECESSARILY LIMITED TO LANDSCAPE AND OTHER GREEN INFRASTRUCTURE RELATED IMPROVEMENTS ON REAL PROPERTY OWNED BY THE CITY

BE IT ORDAINED, that Ordinance No. 246-2011 as last amended by Ordinance No. 487-2011 is hereby amended to read as follows:

WHEREAS, the CITY and COUNTY agree that it is in their respective mutual benefit and in the public interest to cooperate and collaborate on the development and implementation of green infrastructure projects as may be promoted, undertaken and/or funded either (a) by the COUNTY and the Sanitary District pursuant to the ACJ as amended to incorporate green infrastructure as a component of ACJ Projects, and/or (b) by the CITY in furtherance of the CITY'S green initiatives; and

WHEREAS, the CITY recognizes that supporting the objectives of the ACJ requires establishing a framework that supports the development, implementation and long term

maintenance of green infrastructure throughout those areas of the CITY that are served by a combined sanitary and storm sewer system; and

WHEREAS, the CITY also recognizes that a long term commitment to supporting the development, implementation and long term maintenance of green infrastructure throughout those areas of the CITY that are served by, or are tributary to a combined sanitary and storm sewer system will also facilitate compliance with the CITY"S stormwater permit obligations and that it is therefore in the long term interest of the CITY to encourage and promote development and implementation of green infrastructure to the maximum extent possible; and

WHEREAS, the CITY has previously agreed to support the use of green infrastructure as a means of achieving the objectives of the CSO component of the ACJ; and

WHEREAS, an advantage of green infrastructure technology is that it can be implemented on an ongoing basis at varying extent throughout a CSO service area as opportunities to do so are identified; and

WHEREAS, federal and State financial assistance for green infrastructure projects will require that the applicant be able to demonstrate a sufficient legal interest in property to obtain continuing access to construct the project and to verify that the project is being maintained and operated as required by the terms of the grant and/or loan; and

WHEREAS, the creation of a legal mechanism that can provide for access to and/or a rapid transfer of an interest in property to qualify for certain forms of financial assistance is necessary to most effectively maximize opportunities to develop, implement and obtain federal and State funding for green infrastructure projects as these opportunities arise; and

WHEREAS, the COUNTY has agreed to cover all green infrastructure cost of the construction costs associated with implementation of the green infrastructure projects covered by

this Permission Ordinance as set forth in the revised and amended 2012 Appendix "A" which is annexed hereto; and

WHEREAS, the CITY is agreeable to allow the COUNTY to install the proposed green infrastructure projects (the "Project" or "Projects"), as described in general terms in the amended 2012 Appendix A within, and upon the Project Sites listed in the amended 2012 Appendix A; and

WHEREAS, the COUNTY has determined that the projects for which access is being sought pursuant to this Permission Ordinance are either Type II Actions under the State Environmental Quality Review Act ("SEQR") or will not result in significant environmental impacts; and

WHEREAS, the CITY, upon review of the listed projects, tentatively concurs subject to further review by the CITY Engineer as provided herein that no further action is required under that statute; and

WHEREAS, this Permission Ordinance is granted subject to further review and approval of each Project and proposed improvement listed in the revised and amended 2012 Appendix A by the CITY Engineer;

NOW, THEREFORE, BE IT RESOLVED:

1. Subject to the provisions of Paragraph 21 with respect to any project or projects not constructed within the period specified therein, this Permission Ordinance shall run from the date of its acceptance by the COUNTY for a period of five (5) years and may be extended upon mutual consent of the parties for three (3) additional five (5) year terms. It is anticipated that this Ordinance will be amended each year to add additional projects for that year's construction season in accordance with the terms set forth herein.

2. That except as the site may be modified by implementation of a green infrastructure project undertaken pursuant to this Permission Ordinance, at the termination of this Ordinance the County or its officers, representatives, agents, employees, contractors or their subcontractors shall leave the site in a condition reasonably consistent with that existing before the commencement of this Ordinance.

3. That the CITY hereby authorizes the COUNTY to enter the Project Sites listed in the revised and amended 2012 Appendix A for the purposes of commencing and completing the Projects listed in said Appendix, subject to the COUNTY accepting the terms and conditions set forth below by written Acknowledgment and Acceptance transmitted to the appropriate CITY official responsible for oversight of the specific parcels in question, as may be identified by the Corporation Counsel from time to time, with a copy to the City's Corporation Counsel within sixty (60) days of the effective date of this Ordinance: the COUNTY shall construct, without cost to the CITY and in accordance with plans, specifications and final locations as provided by the COUNTY to the CITY Engineer and as approved by said CITY Engineer and the Commissioner of Public Works, the appurtenances, pavement, landscape improvements and other related installations, including, where appropriate, installation of infrastructure to support charging stations for electrically powered vehicles, (the "Work") which are the subjects of this action. Final Acceptance of all Work performed pursuant to this Permission Ordinance shall be subject to the approval of the CITY Engineer and Commissioner of Public Works, provided, however, that with respect to any green infrastructure project requiring the installation of porous pavement or porous concrete including but not limited to installation of sidewalks, this Permission Ordinance shall also constitute the granting of any variance required to use and install such material within and upon the properties listed in said amended 2012 Appendix A.

4. That the plans and specifications required for constructing all facilities subject to this Permission Ordinance shall be prepared by a Professional Engineer registered by the State of New York. The plans for the Work shall be provided to the CITY Engineer, and record drawings, including AutoCad GIS formats on magnetic media shall be provided to the CITY Engineer subsequent to the completion of the Work. The COUNTY shall endeavor to provide a certification by a Professional Engineer as to the accuracy of the as-built drawings and attest to the fact that the improvements were constructed in conformity with the plans and specifications approved by the CITY Engineer.

5. That traffic shall be maintained at all times during construction by the COUNTY acting through its contractors and agents. The entire excavation of said Work, if any shall be required, is to be protected by suitable guards and signals both by day and night and precautions are to be taken by all reasonable means to prevent any accident or injury while the Work is in progress.

6. That the COUNTY, as a self insured municipal government, shall require that its contractors, subcontractors and agents performing the Work or entering upon the Project Site, shall obtain and keep in force for the duration of the Work, a general liability insurance policy, in the amount of $1,000,000, naming the CITY as an additional insured. In addition, the COUNTY shall require that all Project contractors obtain and keep in force workers compensation insurance in accordance with New York State law. A Certificate of said insurance shall be submitted to the CITY with a copy to the Office of Corporation Counsel, 233 E. Washington Street, Room 300 CITY Hall, Syracuse, NY 13202.The COUNTY can satisfy the aforementioned insurance requirement by providing that all of its contractors performing the Project Work obtain the required insurance and submit the required certificates to the CITY.

7. That the COUNTY, its successors, assigns, and agents shall agree that the CITY,

acting through the CITY Engineer, shall have the authority to request any on site investigations, excavations or actions, to be taken at the sole expense of the COUNTY, which are necessary to ensure that the excavation does not damage or impair CITY utilities. By consequence of the Permission Ordinance or subsequent approvals authorized by this Ordinance, the CITY makes no representation, express or implied, as to the feasibility of the proposed plans or Work or to the extent of Work involved in accommodating any existing utility or facility located within the CITY rights-of-way. Any coordination with the various utility operators, private and/or public, is the responsibility of the COUNTY.

8. A. That the COUNTY, its successors, assigns, and agents shall at all times defend and indemnify and save harmless, the CITY, its officers and employees from any and all liability and from any and all claims, damages, costs and expenses of every name and nature to person or property which may accrue or grow out of the installation, operation, and maintenance of such Work in relation to the Project(s) or arising in any way out of the operations pursuant to this Permission Ordinance, and shall defend and indemnify and save harmless said CITY from all costs, damages and expenses by reason of any damages or injuries to any gas pipe, water pipe, sewers, other utilities, pipes or construction work now located in, under and along the surface of said street at the point and place or places where said Work is to be performed and maintained, alleged to have been caused or sustained in whole or in part by or because of misfeasance, omission of duty, negligence or wrongful act on the part of the COUNTY.

8. B. That the CITY, its successors, assigns, and agents shall at all times defend and indemnify and save harmless the COUNTY, its officers and employees, from any and all liability and from any and all claims, damages, costs and expenses of every name and nature to person or property which may accrue or grow out of the installation, operation, and maintenance of such Work in relation to the Project(s) or arising in any way out of the operations pursuant to this Permission Ordinance, and shall defend and indemnify and save harmless said COUNTY from all costs, damages and expenses by reason of any damages or injuries to any gas pipe, water pipe, sewers, other utilities, pipes or construction work now located in, under and along the surface of said street at the point and place or places where said Work is to be performed and maintained, alleged to have been caused or sustained in whole or in part by or because of misfeasance, omission of duty, negligence or wrongful act on the part of the CITY.

9. That the COUNTY shall within sixty (60) days from the transmission by the City Clerk or Corporation Counsel of a certified copy of this amended 2012 Permission Ordinance evidencing its adoption, execute and file with the CITY Clerk, a written acceptance of this permission and consent with a copy to the Corporation Counsel, the City Engineer and the Commissioner of Public Works.

10. That all ordinances, rules and regulations of the CITY and its departments shall at all time be complied with, including but not limited to the Building Code and Property Conservation Code of the CITY of Syracuse.

11. That the Work shall be subject to street cut and repair permitting process administered by the Commissioner of Public Works and any other standard permitting processes

that exist. Notwithstanding the foregoing sentence, in consideration of the significant improvements to CITY owned property and the environmental benefits expected to accrue from the Work covered by this Permission Ordinance, the CITY agrees to waive applicable fees regarding green infrastructure projects that take place within parking lots, that replace sidewalks, and that involve full street reconstruction. .

12. That the CITY Engineer and the Commissioner of Public Works shall be advised in advance of time when the Work is to be done and the work of installation, including shoring, protection of pipes and facilities and other safety measures, shall be subject to the supervision of the CITY Engineer and the Commissioner of Public Works.

13. Subject to the approval of the CITY Engineer permission may be granted by the CITY for installation of other utilities, including, where appropriate, installation of infrastructure to support charging stations for electrically powered vehicles, to cross the area to be occupied by the proposed facilities.

14. That all the Work shall be done in a skillful manner with reasonable dispatch and in accordance with plans and specifications and all conditions imposed by any laws, rules or regulations which may apply to the Work. Where applicable, a dust and sediment and erosion control program shall be in effect for the duration of the Project to prevent a nuisance and to prevent interference with or damage to adjacent property, streets, sewers and drainage courses.

15. That the COUNTY and its contractors shall adequately and properly protect any existing underground utilities located within or near said installation. If any such property or facilities are interfered with or damaged, the COUNTY, or its successors and assigns, shall be responsible for replacement to the satisfaction of the CITY Engineer. Notwithstanding the foregoing sentence, however, the COUNTY and/or its contractors shall not be responsible for replacing any utility, property or facility that is determined to be in such a state of disrepair, deterioration, age or other like condition, that it cannot be determined with reasonable certainty that any interference or damage has resulted from the Work to be undertaken by the COUNTY and its contractors pursuant to this Permission Ordinance. Should the CITY Engineer determine that CITY facilities or utilities require relocation, temporary support or other modification as a result of this Work, said modifications shall be made as directed by the CITY Engineer.

16. That the COUNTY, its successors, assigns, and agents shall, upon request by the CITY, permit the construction, installation, repair, replacement and removal of any and all utilities necessary at any time in the future to be located or placed within said lines and appurtenances; and the COUNTY shall agree to assume any excess of the normal cost of installation of such utilities occasioned by the existence of said lines and appurtenances in said streets.

17. That subject to the provisions of paragraph 2 of this Permission Ordinance, upon completion of each Project listed in Appendix A and upon acceptance and approval of the property restoration by the CITY Engineer and the Commissioner of Public Works, the use, operation and maintenance of the property and utilities located therein will be subject to all laws, rules, ordinances and procedures which apply to said property and utilities throughout the CITY.

18. That the Syracuse Department of Water shall be notified when any water mains are exposed so its condition may be inspected. All utility installations must maintain a minimum of three (3) foot separation from the water main joints, tees and valves. All utilities shall be installed in accordance with Ten State Standards which require ten (10) foot horizontal clearance from water main and service lateral and eighteen (18) inch vertical clearance at crossing of water main.

19. That all monuments shall be referenced prior to construction. If any monuments are disturbed or moved, the monuments shall be replaced in the same location and recertified by a licensed surveyor to the CITY. All expenses for the above shall be paid for by the COUNTY.

20. That the COUNTY shall be responsible for maintenance of green infrastructure project components constructed or installed by the COUNTY upon CITY property pursuant to this Permission Ordinance. Such maintenance may consist of sweeping, vacuuming, landscaping, as well as, repair or replacement of porous pavement and/or concrete. For green infrastructure projects installed pursuant to this PERMISSION ORDINANCE, maintenance by the COUNTY will include vacuuming of porous pavements consistent with recommended porous pavement maintenance guidelines, as well as maintenance (clean and reset) catch basin filter inlets and sumps that are part of components of any such project. The CITY shall remain responsible for all other maintenance (except for any green infrastructure components) of CITY property upon which green infrastructure is installed pursuant to this Permission Ordinance.

21. That the construction and restoration permitted by the terms of this Permission Ordinance must be commenced by December 31 of the year of its adoption. The parties acknowledge and agree that continuing access by the COUNTY to property upon which green infrastructure is installed pursuant to this Permission Ordinance is essential to maintaining compliance of the CSO capture requirements of the ACJ and any State and/or Federal permits that may be issued to the COUNTY and/or the CITY implementing Federal and State water pollution control requirements. , Therefore, nothing contained herein is intended nor shall it be construed as limiting the COUNTY'S right under this Permission Ordinance to continued access to the property for purposes of inspecting, maintaining and replacing any and all green infrastructure projects constructed or installed pursuant to this Permission Ordinance for so long as the PERMISSION ORDINANCE authorized herein remains in effect for COUNTY maintenance and inspection purposes to meet the continuing requirements of the ACJ and any State and/or Federal grants or permits that may be issued to the County in order to implement the projects authorized herein..

22. That the foregoing conditions may be modified or expanded from time to time as agreed upon in writing by the Corporation Counsel, CITY Engineer and the COUNTY, provided however that the parties recognize that certain modifications may require the approval of their respective legislative bodies in accordance with applicable law.

* _____ = new material

2012 Green Infrastructure Candidate Project List

NOTE: The below 2012 Green Infrastructure Candidate Project List is subject to change pending owner permission, field work, design feasibility, construction scheduling and other factors known and unknown. This list will be finalized at the end of each construction schedule (approximately December).

Project ID	Project Name	Project Address	Parcel Owner	Cost	CSO Reduction
		2012 Candidate Projects			
C-74b	Otisco Street Green Corridor - Phase 2	Between Senca and Wyoming St.	City of Syracuse	$ 628,000	232,884
C-97	Marcellus Street Parking Alignment	100 block Marcellus St, b/w Wyoming and West	City of Syracuse	TBD	TBD
C-98b	Clinton Storage: MoST Roof Leaders and South Jefferson Circle	MoST and South Jefferson Circle	City of Syracuse	TBD	TBD
C-104	Civic Center Forecourt	E Onondaga St. and Montgomery St.	City of Syracuse	$ 107,000	88,000
C-109	GIF#45 PEMCO Montgomery	300 Genesee St. East and Montgomery	City og Syracuse	TBD	TBD
C-110	Seymour Academy Parking Lot	108 Shonnard St	Syracuse City School District	TBD	TBD
C-111	Pavement Removal: Rugby Rd and Hampton Rd	Rugby Rd and Hampton Rd.	City of Syracuse	TBD	TBD
C-114	Green Street: Waverly St.	Waverly Street from Irving to Comstock St.	City of Syracuse	TBD	TBD
C-116	Greening of Post Standard ROW	1 S Clinton St	City of Syracuse	TBD	TBD
C-132	Green Park: Leavenworth/Barker Park	301 Park Ave and Matty Ave	City of Syracuse Parks	TBD	TBD
C-136	Green Park: Loguen Park	1801 E Genesee St and Lexington Ave	City of Syracuse Parks	TBD	TBD
C-136b	Pavement Removal at Loguen Park	Cherry St. and Lexington Ave.	City of Syracuse	TBD	TBD
C-137	Green Park: Schiller Park	112 Whitwell Dr	City of Syracuse Parks	TBD	TBD
C-148	Sunnycrest Park at Clifton Place	Sunnycrest Park at Clifton Place	City of Syracuse Parks	TBD	TBD
E-33	I-690 Disconnections	Various	New York State/City of Syracuse	TBD	TBD
E-41	Rose Hill Cemetery	Intersection of Lodi and E Willow St	City of Syracuse	TBD	TBD
F-04a	City Parking Lot #4	Intersection of Butternut and North State Sts	New York State/City of Syracuse	$ 987,000	313,250
F-04b	Green Street: N State	N State between Butternut and Ash	City of Syracuse	TBD	TBD
F-05a	Prospect Park Green Gateway - Phase 1	Prospect Park, E Laurel St to N Salina St	City of Syracuse	$ 1,354,000	TBD
F-05b	Prospect Park Green Gateway - Phase 2	N Salina and 200 Block Butternut St	City of Syracuse	$ 1,291,000	TBD
F-06	Triangle at Grant Blvd and Butternut St	Grant Blvd & Butternut St	City of Syracuse	TBD	TBD
F-07b	Green Park: McChesney Park	2308 Grant Blvd	City of Syracuse Parks	TBD	TBD
H-22	Green Street: 800 block Park Ave	800 block Park Ave @ Liberty St	City of Syracuse	TBD	TBD
H-25	Green Street S Geddess	S Geddes St, Shonnard to W Onondaga St	City of Syracuse	TBD	TBD
H-32	Greening of Sackett Tract	W Genesee St., Park Ave., Lakeview Ave.	City of Syracuse	$ 343,000	107,420
H-33	Green Park: Lewis Park Enhancements	305 Lewis St and 825 Milton Ave	City of Syracuse Parks	$ 414,000	390,845
H-36	Green Park: Wadsworth Park	1204 Glenwood Ave and Wolcott Ave	City of Syracuse Parks	TBD	TBD
M-05	Stream Inflow Removal #1	I-81 near Woodland Ave.	City of Syracuse	TBD	TBD
M-06	Stream Inflow Removal #2	I-81 near Colvin Ave.	City of Syracuse	TBD	TBD
M-07	Stream Inflow Removal #3	Oakwood Cemetery near Moore Ave.	City of Syracuse	TBD	TBD
M-30	Southwest Community Center	401-45 South Ave & Clover St	City of Syracuse	TBD	TBD
M-42	Greening Vacant Lot near Beauchamp Library	2027 S. Salina St.	City of Syracuse	TBD	TBD
M-43	Green Park: Comfort Tyler Park	1212-14 E Colvin St and Comstock Ave	City of Syracuse Parks	$ 1,178,000	475,556
M-46	Green Street: Salina Between E. Colvin and E. Brighton	Salina b/w E. Colvin and E. Brighton	City of Syracuse	TBD	TBD
M-47	Green Street: West Newell Between Midland Ave. and Onondaga Creek	Midland Basin 067	City of Syracuse	TBD	TBD
M-50	Stormwater Detention Basin at Former Garzone's Site	2426 South Ave. and Princeton Ave., 2410 South Ave., 2412 South Ave.	Garzone Living Trust	TBD	TBD
		Vacant Lots			
C-143	Vacant Lot: Fayette St Orchard	2016-24 E Fayette St.	City of Syracuse	TBD	TBD
C-160	Vacant Lot: Merriman Ave and Sabine St.	215 Merriman Ave. and Sabine Street	City of Syracuse	TBD	TBD
C-161	Vacant Lot: 226 Delaware St.	226 Delaware St.	City of Syracuse	TBD	TBD

Appendix "A"

2012 Green Infrastructure Candidate Project List

NOTE: The below 2012 Green Infrastructure Candidate Project List is subject to change pending owner permission, field work, design feasibility, construction scheduling and other factors known and unknown. This list will be finalized at the end of each construction schedule (approximately December).

Project ID	Project Name	Project Address	Parcel Owner	Cost	CSO Reduction
C-162	Vacant Lot: 1716 Fayette St. E & Wescott St. S	1716 Fayette St. E & Wescott St. S	City of Syracuse	*TBD*	*TBD*
C-163	Vacant Lot: 350 Pond St.	350 Pond St.	SURA	*TBD*	*TBD*
H-30	Vacant Lot: Arthur and West Onondaga	1348-50 West Onondaga St. and Arthur St.	City of Syracuse	*TBD*	*TBD*
H-35	Vacant Lot: Emerson Ave Rain Garden	701 Emerson Ave & 101 Chemung St	City of Syracuse	*TBD*	*TBD*
H-37	Vacant Lot: Delaware/Dudley Orchard	100,102 Dudley & 401-05 Delaware	City of Syracuse	*TBD*	*TBD*
H-38a	Vacant Lot: 224 Putnam Street	224 Putnam St.	City of Syracuse	*TBD*	*TBD*
H-38b	Vacant Lot: 226 Putnam Street	226 Putnam St.	City of Syracuse	*TBD*	*TBD*
H-43	Vacant Lot: Wolcott Ave. and Stolp Ave.	221 Wolcott Ave. and Stolp Ave.	City of Syracuse	*TBD*	*TBD*
H-44	Vacant Lot: 109 Hartson Street	109 Hartson Street	City of Syracuse	*TBD*	*TBD*
H-45	Vacant Lot: 409 Merriman Ave.	409 Merriman Ave.	City of Syracuse	*TBD*	*TBD*
H-46	Vacant Lot: 201&203 Sabine St.	201&203 Sabine St.	City of Syracuse	*TBD*	*TBD*
M-29b	Vacant Lot: 147 Hughes Place	147 Hughes Place	City of Syracuse	*TBD*	*TBD*
M-29c	Vacant Lot: 220 Lorraine Ave	220 Lorraine Ave	City of Syracuse	*TBD*	*TBD*
M-56	Vacant Lot: 1506-1508 Midland Ave	1506-08 Midland Ave. and Colvin Street	City of Syracuse	*TBD*	*TBD*
		Brownfields			
C-xx	Brownfield: 1201-37 Erie Blvd. East	120-37 Erie Blvd. East	City of Syracuse	*TBD*	*TBD*
M-xx	Brownfield: 101 Chester St.	101 Chester St.	City of Syracuse	*TBD*	*TBD*
M-xx	Brownfield: 900 South Ave.	900 South Ave.	City of Syracuse	*TBD*	*TBD*

***Denotes Project that was on 2011 Permission Ordinance List**

Note: Italicized Costs and CSO Reductions are Estimates as of 1/23/12

GREEN IMPROVEMENT FUND

Green Improvement Fund Update

The Green Improvement Fund (GIF) received five new applications in the month of March, bringing the total to 80 applications submitted to date.

The GIF program continues to work closely with applicants on construction implementation for 2012. The GIF review committee continues to evaluate potential projects during weekly meeting sessions.

Refining technical review and operational procedures is an ongoing process to maximize program efficiency.

Green Improvement Fund Summary

Applications Received	**80**
Complete	18
Under Contract/Implementation	17
Awarded	13
Under Review	24
Deemed Ineligible	8

For more information on GIF projects, visit the Save the Rain website:
www.savetherain.us/gif-projects

METRO WWTP PHOSPHORUS PROJECTS/TMDL/AMBIENT MONITORING PROGRAM UPDATE

Metro WWTP Phosphorus Projects/TMDL/Ambient Monitoring Program Update

Metro Phosphorus Optimization Project

- The County is currently developing a scope of work for Phase II studies to be conducted in 2012.

Metro Phosphorus Work Plan Project

- Received review comments on March 26, 2012, for the project report transmitted to NYSDEC/ASLF on December 31, 2011.

Onondaga Lake Water Quality Model

- Received memorandum from Anchor/QEA describing the analysis of the impact of Metro Outfall 002 flow revisions on the OLWQM calibration/validation and projections (model scenarios), with the following conclusions:
  - 002 flow revisions did not impact the calibration or validation of the model.
  - Future projections were not significantly impacted by the revisions.
  - Model scenarios completed and document remains accurate and supportive of the assessment of water quality management alternatives.

TMDL

NYSDEC released the draft Total Maximum Daily Load (TMDL) for phosphorus in Onondaga Lake on March 28, 2012, for review and comment (posted on www.dec.ny.gov/chemical/67594.html).

Important points of the draft TMDL consider (as noted by NYSDEC):

- phosphorus limits for the Onondaga County and Village of Marcellus wastewater treatment plants;
- regulation of construction and post-construction stormwater discharges;
- regulations applicable to concentrated animal feeding operations in the watershed;
- recent changes to the Environmental Conservation Law which limit the use of lawn fertilizers containing phosphorus; and
- load reductions anticipated from improved combined sewer overflow capture requirements as a result of gray and green infrastructure projects.

The comment period will end on April 27, 2012. Comments received by this date will be considered by NYSDEC prior to submitting the final document to EPA for approval.

Ambient Monitoring Program

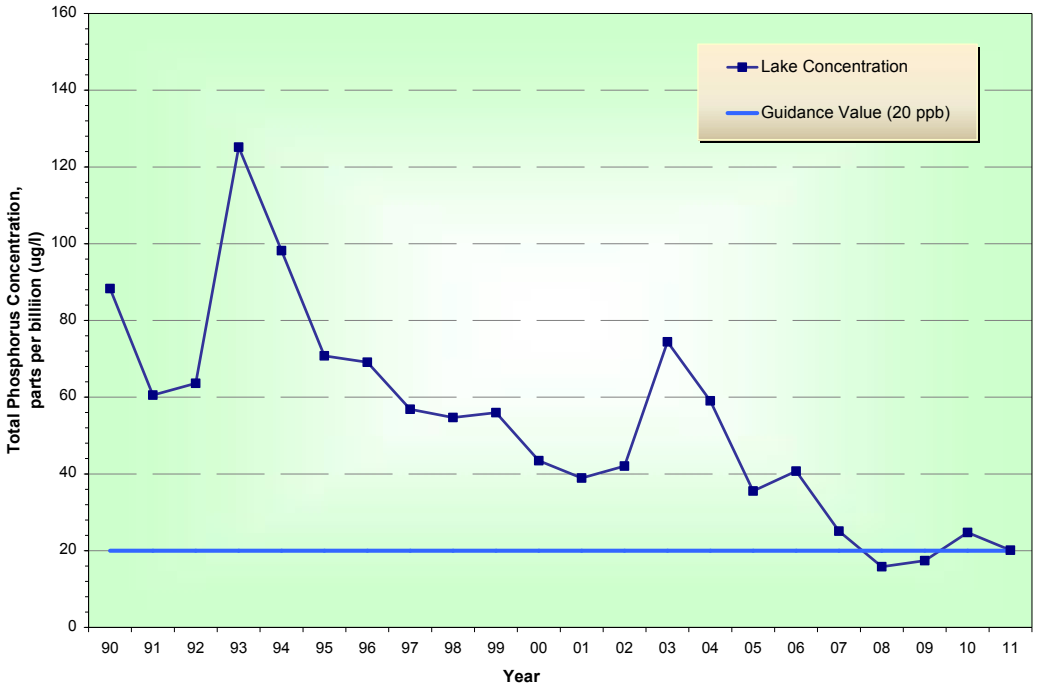
ONONDAGA LAKE WATER QUALITY 2011 (Preliminary Highlights):

(1) Ammonia N: Onondaga Lake waters continued to be in full compliance with the state ambient water quality standards for ammonia (all stations, all depths) designed to protect sensitive aquatic life; Metro continued to meet SPDES permit limits).

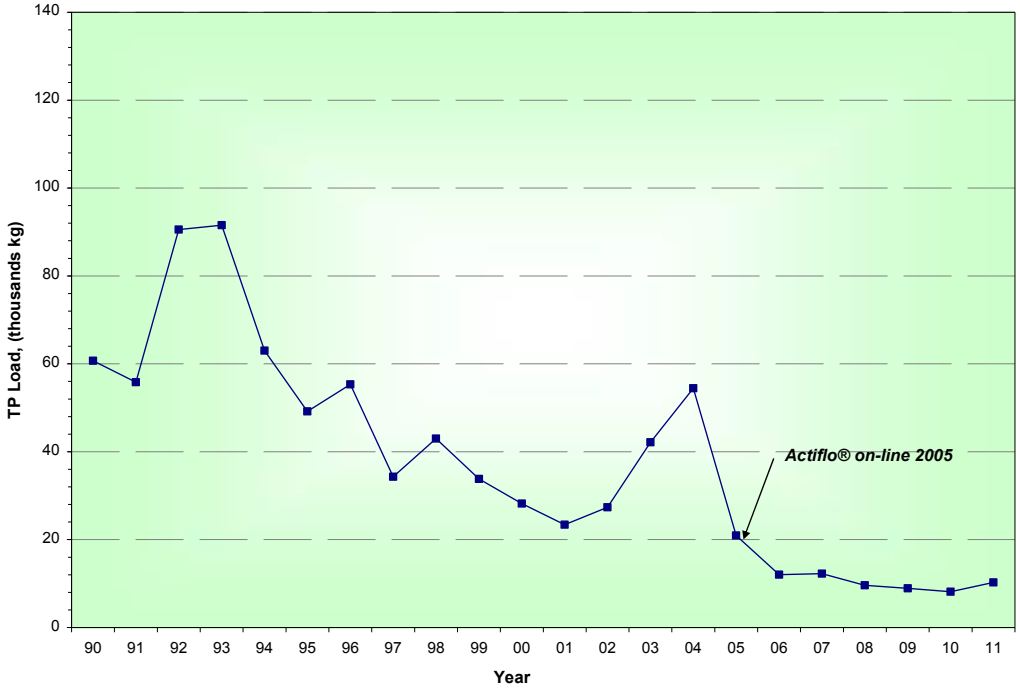
(2) Total Phosphorus: The draft TMDL (Phase II) document prepared by the NYSDEC in March 2012, for Phosphorus in Onondaga Lake, represents a pollution budget for phosphorus contribution to the lake. The proposed phosphorus allocations are based on achieving 20 µg/l (micrograms per liter) of phosphorus in the lake which the DEC considers to be protective of contact recreation and the fish community, based on several years of data, scientific studies, and water quality models. The 2011 summer average TP (20 µg/l) met the NYDSEC's guidance value of 20 µg/l (assessed June 1 - September 30) which is used as the numeric water quality target for the draft Phosphorus TMDL.

During 2011, Metro continued to meet SPDES permit limits (modified Stage II limit, 0.10 mg/l). The interim limit of 0.10 mg/l has been determined by the final SPDES permit issued by the NYSDEC for Metro and effective beginning March 21, 2012.

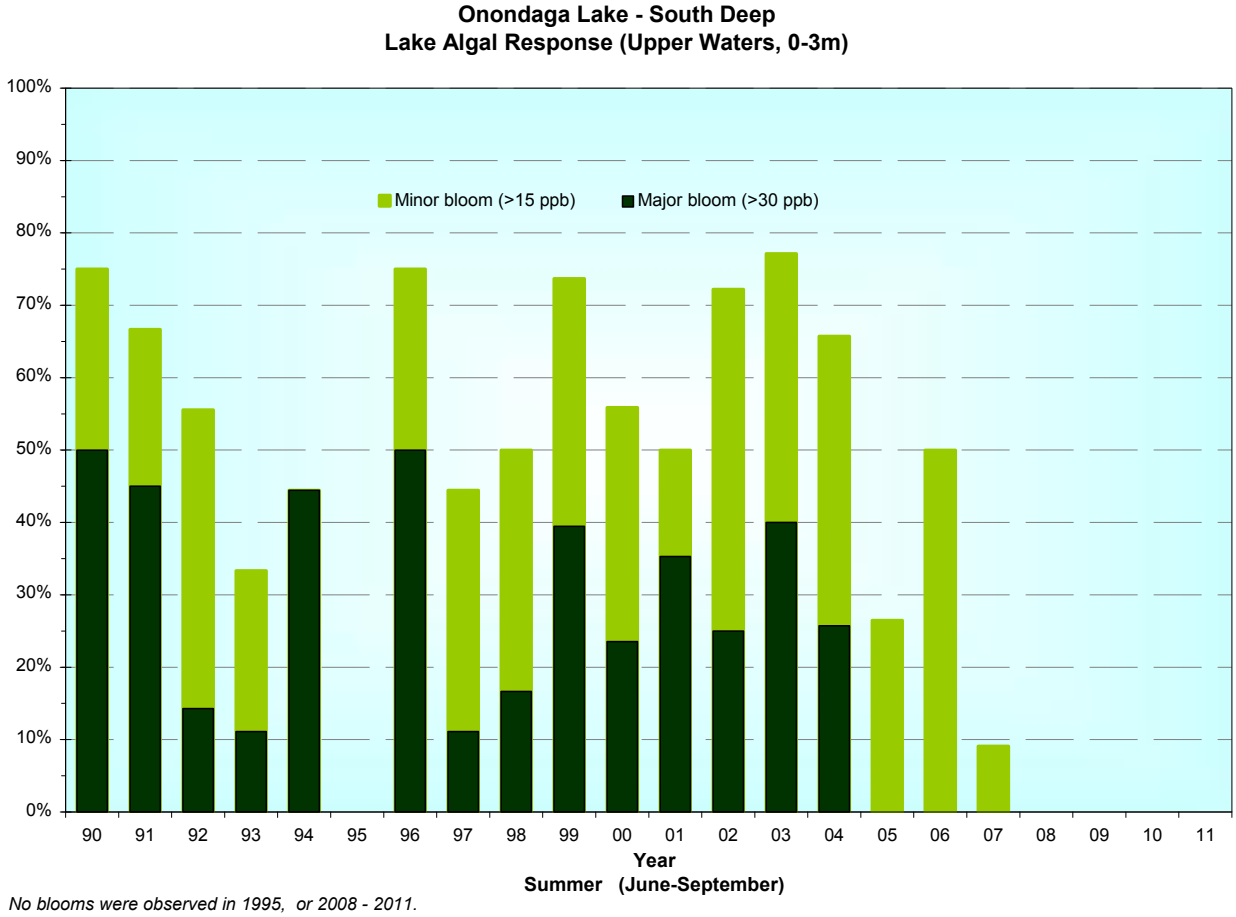
Summer Phosphorus Levels in Upper Waters of Onondaga Lake



Phosphorus Discharged to Onondaga Lake: Metro



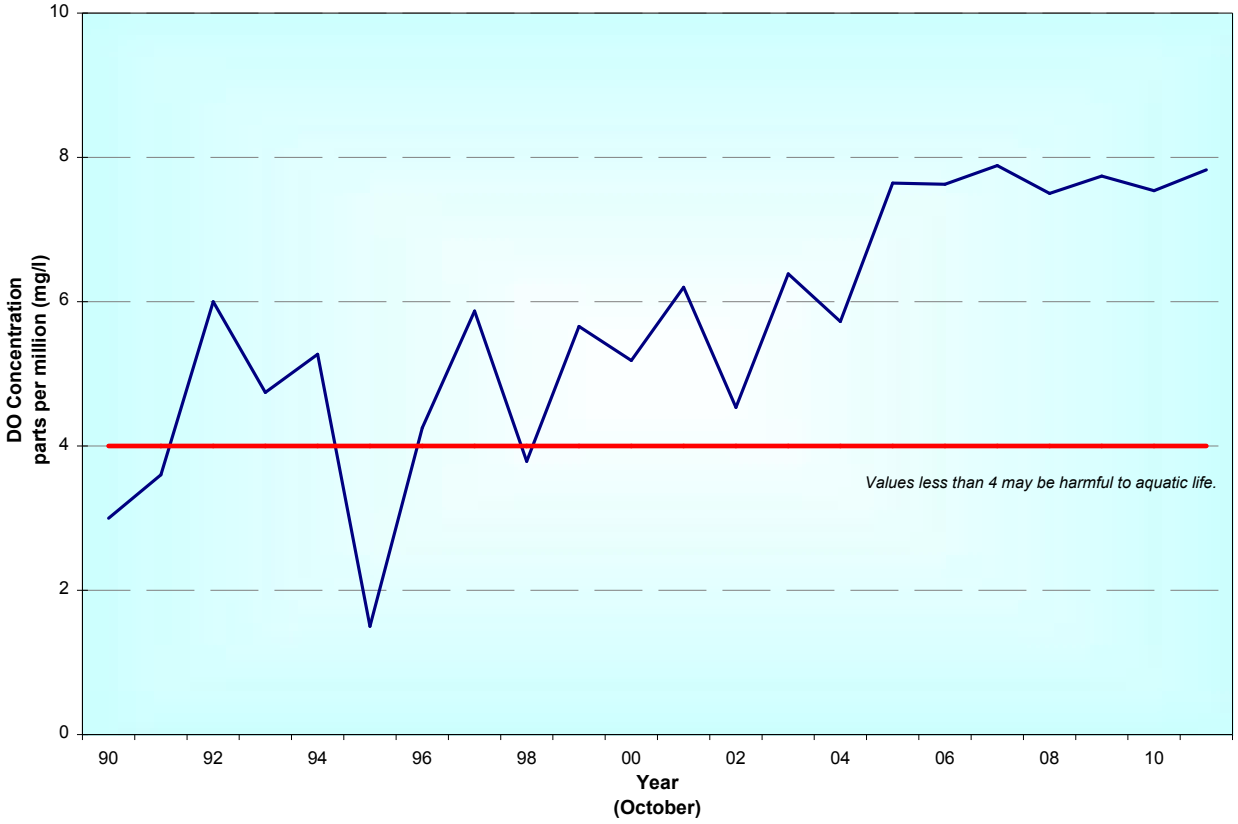
(3) Algal Blooms:
Less phosphorus in the lake has resulted in fewer and less severe algal blooms. Less algae means clearer water and more oxygen for aquatic life. There was a minor algal bloom early in the spring of 2011 (likely to be diatoms), when TP was elevated following spring rains.

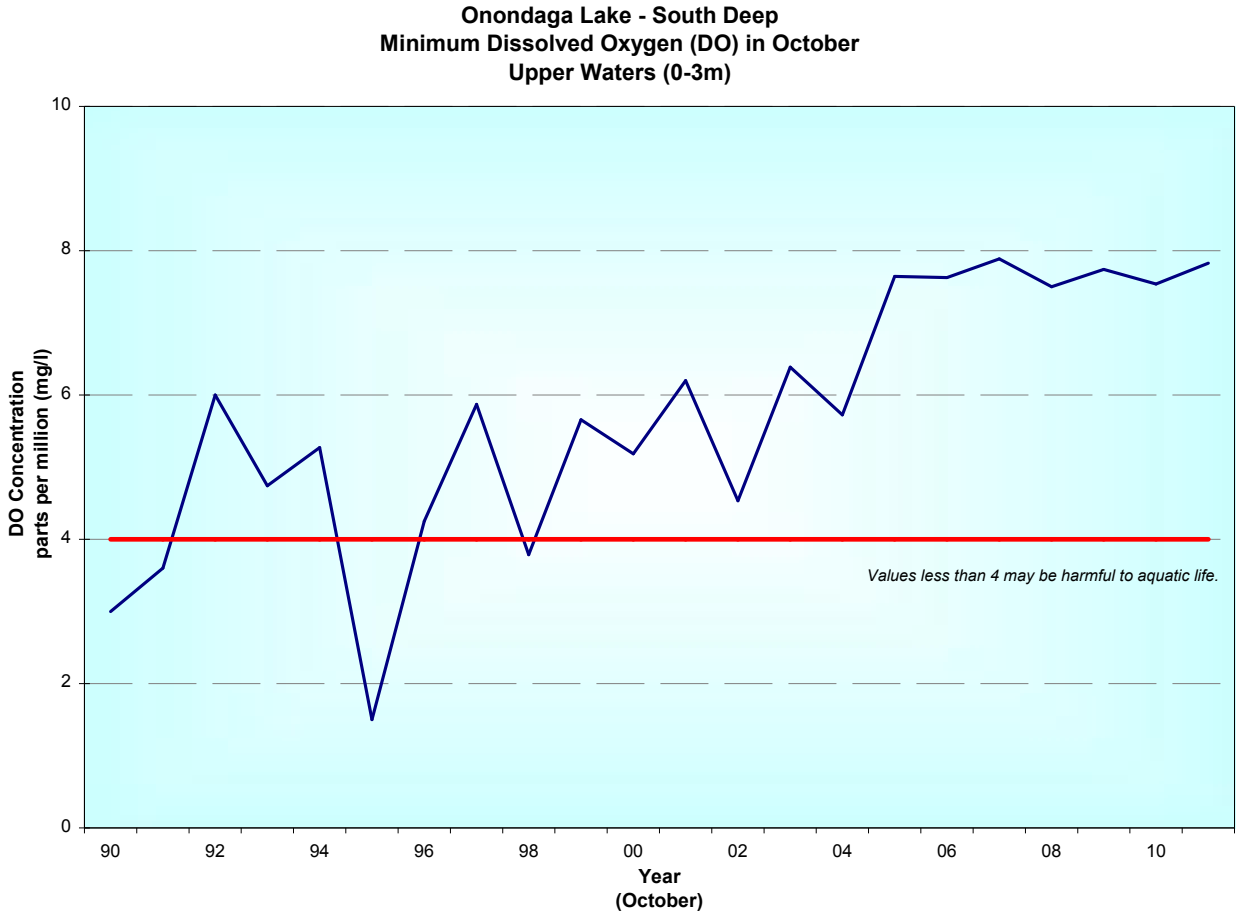


No blooms were observed in 1995, or 2008 - 2011.

(4) Dissolved Oxygen (fall turnover): The restoration goal for Onondaga Lake to meet the NYSAWQS for DO during fall mixing continued to be met in 2011, and dissolved oxygen levels stayed above the 5.00 mg/l (daily average) and 4.00 mg/l (instantaneous minimum) standards based on Lake Fall Turnover evident on 11/3 at South Deep station.

Onondaga Lake - South Deep
Minimum Dissolved Oxygen (DO) in October
Upper Waters (0-3m)





WATER QUALITY SAMPLING SUMMARY (March 2012):

Tributary Sampling (March 2012)

- Tributary Quarterly Extended sampling event conducted on March 27.
- Tributary Bacteria sampling events conducted on March 8, 20 and 22.
- Tributary Biweekly sampling event conducted on March 13.

TRIBUTARY BACTERIA COMPLIANCE ASSESSMENT (February 2012):

- Bacteria in Compliance with the NYS Ambient Water Quality Standards (AWQS) for:

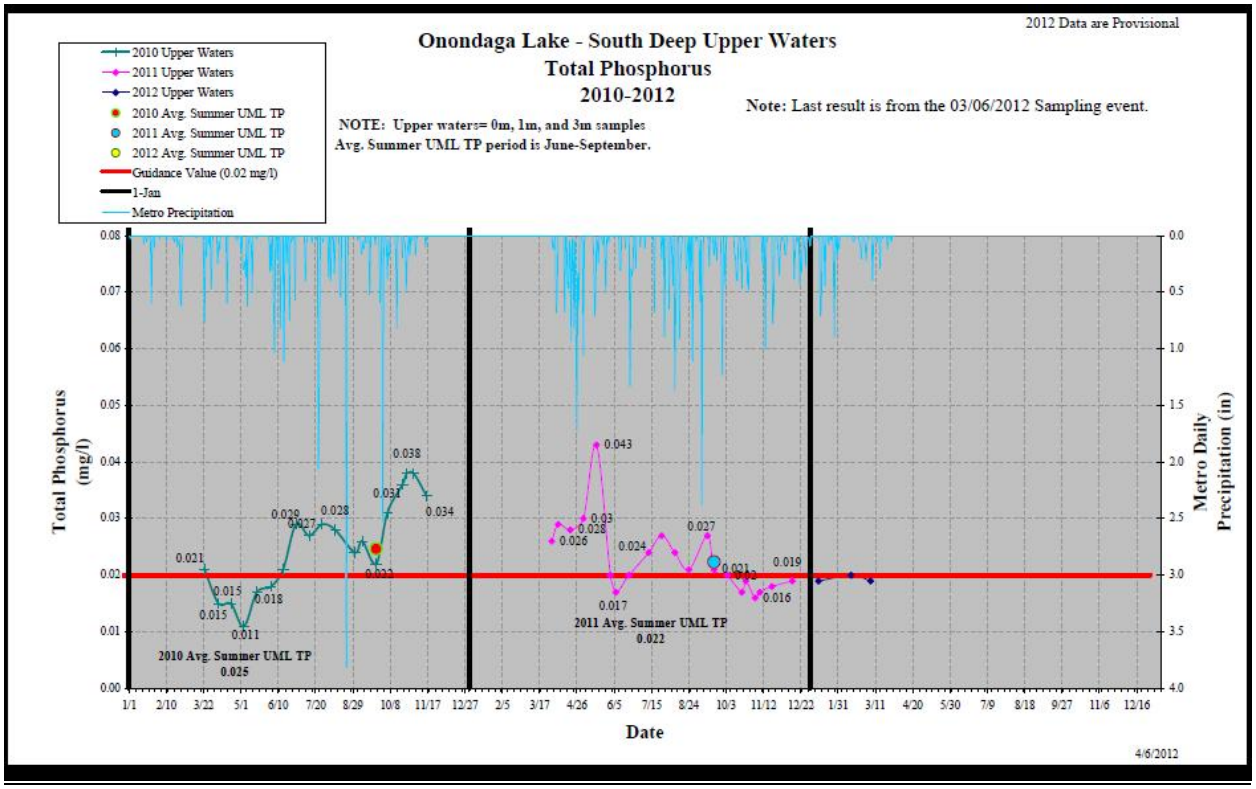
  Ninemile Creek at Lakeland Rt. 48, Onondaga Creek at Dorwin Avenue, Harbor Brook at Bellevue Avenue, Onondaga Creek at Kirkpatrick Street, Bloody Brook at Onondaga Lake Parkway, Ley Creek at Park Street, and Harbor Brook at Velasko Road.

- Bacteria in Non-Compliance for:

  Harbor Brook at Hiawatha Boulevard.

Onondaga Lake Sampling (March 2012)

- Lake winter sampling event conducted at South Deep station on March 6. The plot below shows the Total Phosphorus data from the limited monthly lake South Deep sampling events conducted from January 2012 through March 2012.



BIOLOGICAL MONITORING PROGRAM (2011 PRELIMINARY HIGHLIGHTS – ONONDAGA LAKE FISHERIES):

The Onondaga Lake fish community consists of a diverse group of native and non-native species. Surveys conducted from 2001 through 2011 have identified a total of 52 species. Many of theses species are highly valued by anglers, including largemouth bass, smallmouth bass, walleye, brown trout, brown bullhead, yellow perch, and sunfish. Some, such as alewife, golden shiner, and other minnow species, serve as important sources of forage for sport fish and other predators. Still others, such as longnose gar, bowfin, and the state-threatened lake sturgeon, are valued for the unique appearance, life history, or relative scarcity.

Fish species documented in Onondaga Lake, grouped by relative abundance (2001-2011)

Very Common Species			**Common Species**			**Uncommon Species**				
Alewife	Banded Killifish	Bluegill	Black Crappie	Bluntnose Minnow	Bowfin	Brook Silverside	Black Bullhead	Chain Pickeral	Goldfish	Greater Redhorse
Brown Bullhead	Carp	Gizzard Shad	Brook Stickleback	Brown Trout	Emerald Shiner	Fathead Minnow	Green Sunfish	Johnny Darter	Lake Sturgeon	Longnose Dace
Golden Shiner	Largemouth Bass	Pumpkinseed	Freshwater Drum	Longnose Gar	Log Perch	Northern Pike	Northern Hogsucker	Quill Back	Rainbow Trout	Trout Perch
Smallmouth Bass	Walleye	White Perch	Rock Bass	Tessellated Darter	Shorthead Redhorse	Channel Catfish	Rudd	Spotfin Shiner	Tiger Muskie	Rainbow Smelt
White Sucker	Yellow Perch		Yellow Bullhead	Round Goby			Tadpole Madtom	White Bass	Silver Redhorse	

Students from around Central New York took part in a summer long program put on by Honeywell and the MOST learning about the environment, on July 11, 2011. Staff from the Onondaga County Department of Water Environment Protection demonstrate fish collection techniques using at Miller High Speed Trawl and back pack electrofisher at Ninemile Creek.

BIOLOGICAL MONITORING PROGRAM SAMPLING SUMMARY (March 2012)

- No biological related sampling events conducted in March 2012.

WATER QUALITY SAMPLING SUMMARY:

Tributary Sampling (March 2012)

- Tributary quarterly extended sampling event conducted on March 27.
- Tributary bacteria sampling events conducted on March 8, 20, and 22.
- Tributary biweekly sampling event conducted on March 13.

Tributary Bacteria Compliance Assessment (February 2012)

- Bacteria in Compliance with the NYS Ambient Water Quality Standards (AWQS) for:

  Ninemile Creek at Lakeland Route 48, Onondaga Creek at Dorwin Avenue, Harbor Brook at Bellevue Avenue, Onondaga Creek at Kirkpatrick Street, Bloody Brook at Onondaga Lake Parkway, Ley Creek at Park Street, and Harbor Brook at Velasko Road.

- Bacteria in Non-Compliance for:

  Harbor Brook at Hiawatha Boulevard.

Onondaga Lake Sampling (March 2012)

- Lake winter sampling event conducted at South Deep Station on March 6.

BIOLOGICAL MONITORING PROGRAM SAMPLING SUMMARY (March 2012):

- No biological-related sampling events conducted in March 2012.

LEGISLATIVE/REGULATORY/ MEDIA UPDATE

Legislative/Regulatory Update

Action Items for the County Legislature in the Month of March

- Authorizing acceptance of grant funds from the New York State Environmental Facilities Corporation Green Innovative Grants Program and authorizing execution of grant agreements to implement the intent of this resolution ($472,000).

Action Items for the Environmental Protection Committee in the Month of April:

- Lake Improvement: ACJ update.

Photos of the Day: March 7, 2012

Wednesday, March 07, 2012 8:22 AM

By The Post-Standard
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Onondaga County Executive Joanie Mahoney talks about the Save the Rain initiative adoped by the county during her State of the County addrees held at LeMoyne College's Grewen Hall. Mike Greenlar / The Post-Standard.

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Mahoney Is Pleased With Progress In Green Technology

Posted on March 8, 2012 by Samantha Sonner

Onondaga County is ahead of schedule in the green technology goals

(c) NCC News

By Samantha Sonner - (SYRACUSE) Onondaga County is ahead of schedule on their effort to go green, as County executive Joanie Mahoney said in her State of the County Address on Tuesday night.

Mahoney says last year Onondaga County completed 50 green infrastructure projects and they are already halfway to their goal of capturing 250 million gallons of water by 2018, which is ahead of schedule. Mahoney is pleased the county made the decision to become more environmentally friendly.

"When we made the decision to move toward a more environmentally friendly solution to our storm water problems we did so for one simple reason it was the right thing to do for our community," Mahoney said.

Mahoney mentioned much of the national recognition that Onondaga County received this year for their environmentally friendly efforts. Some of these include being featured in Governing Magazine and Public Works Magazine, and also being featured on a Nationally Broadcasted PBS series "Designing Healthy Communities".

Onondaga County was also named as on of 10 green infrastructure partners in the U.S. by the United States Environmental Protection agency. Mahoney is proud of the way the county has progressed in green energy so far.

"Without exaggeration I can tell you that Onondaga county is playing a vital role in changing for the better the way things are done all across our country," Mahoney said. "Its just one example of the creativity our county employees show every single day."

https://nccnews.expressions.syr.edu/?p=43676

Mahoney is Optimistic

Overall, Mahoney is pleased with the way Onondaga County came out of the economic crisis, and is proud to be one of the few counties that currently has a better bond rating then it did in 2008.

"We all worked together to put smart policies in place when we needed to we didn't simply put our heads down and hope for better days," Mahoney said. "We looked forward and made difficult decisions we cut spending reduced the size of our government."

Mahoney seemed optimistic of the counties economic state, but she did also announce a projected $20 million budget deficit for 2013.

The Post-Standard

syracuse.com

St. Patrick's parade float and band winners announced

Published: Saturday, March 17, 2012, 9:07 PM Updated: Saturday, March 17, 2012, 11:59 PM

By **The Post-Standard**

SYRACUSE -- These are the results of the St. Patrick's Parade float and band competition:

Bishop's Award (Best Parish Float)
1. Holy Cross Church
2. St. Patrick's Parish, St. Brigid's and St. Joseph's
3. St. Mary's of Baldwinsville

Jim Commentucci/The Post-Standard

The float from Holy Cross Church, DeWitt, makes its way along South Salina Street during today's St. Patrick's Day parade. It won the Bishop's Award for best parish float.

Grand Marshal's Award (Best Business/Corporate Float)
1. Crouse Hospital
2. Loretto/Nottingham
3. Rince Na Sonas School of Irish Dance

Nancy Duffy Award (Best Not-for-profit Float)
1. Our Lady of Knock
2. Central New York Irish American Cultural Institute
3. Onondaga County Save the Rain

Best High School Band (Stan Colella Award)
1. Oppenheim-Ephratah Central School Band
2. Morrisville-Eaton Central School Band
3. Henninger High School Band

Best Pipe Band
1. Emerald City Pipe Band
2. City of Syracuse Highland Pipe Band
3. Syracuse Scottish Pipe Band

Best Band Other (not high school)
1. 10th Mountain Division Band
2. The Island Band
3. The Broome County Kazoo Band

Awards announced for St. Patrick's Parade in Syracuse

SYRACUSE, NY (WSYR-TV) - Below are the awards for the 30th Annual St. Patrick's Parade in Syracuse on Saturday.

Float Competition:

Bishop's Award (Best Parish Float)
1st Place – Holy Cross Church
2nd Place – St. Patrick's Parish, St. Brigid's, and St. Joseph's
3rd Place – St. Mary's Baldwinsville

Grand Marshal's Award (Best Business/Corporate Float)
1st Place – Crouse Hospital
2nd Place – Loretto/Nottingham
3rd Place – Rince Na Sonas School of Irish Dance

Nancy Duffy Award (Best Not-For-Profit Float)
1st Place – Our Lady of Knock
2nd Place – CNY IACI
3rd Place – Onondaga County Save the Rain

Band Competition:

Best High School Band (Stan Colella Award)
1st Place – Oppenheim-Ephratah CS Band
2nd Place – Morrisville Eaton Central School Band
3rd Place – Henninger High School Band

Best Non-High School Band
1st Place – 10th Mountain Division Marching Band
2nd Place – The Island Band

3rd Place – Broome County Kazoo Band

Best Pipe Band
1st Place – Emerald City Pipe Band
2nd Place – City of Syracuse Highland Pipe Band
3rd Place – Syracuse Scottish Pipe Band

INSIDE SU
A gathering place and information source
for Syracuse University students, faculty and staff

Register for upcoming Staff 2 Staff programs

Tuesday, March 20, 2012

By SU News Services • (315) 443-3784

Room is still available for these upcoming Staff 2 Staff programs:

•March 20 – Managing Hip and Knee Pain: What Are Your Options?

Special Presentation by St. Joseph's Hospital, Hall of Languages 500

•March 22: Sustainability: How to "Save the Rain" with Rain Barrels, Hall of Languages 500.

•March 27: Experience an Orange Orators Toastmasters Meeting, Peter Graham Scholarly Commons, 1st floor, ES Bird Library

The sessions begin at noon and end by 1:30 p.m.

For complete session decriptions and to register, please visit
http://humanresources.syr.edu/staff/nbu_staff/s2s.html

Website: http://humanresources.syr.edu/staff/nbu_staff/s2s.html

Contact Person: Susan Torrell-Szarek
Office of Human Resources
443-2099
learn@syr.edu

The Post-Standard

syracuse.com

Orange barrels mark the beginning of Syracuse downtown sewer construction

Published: Wednesday, March 21, 2012, 11:46 AM Updated: Wednesday, March 21, 2012, 3:09 PM

By **Charley Hannagan / The Post-Standard**

Syracuse sewer work

Workers from J.J. Lane begin a project to replace sewer lines along West Genesee, West Willow and North Franklin Streets in downtown Syracuse

Watch video

Syracuse, NY – Motorists will be slaloming through orange barrels in downtown Syracuse this spring and summer as workers dig up and replace sewer lines along West Genesee, West Willow and North Franklin Streets.

The $7 million Onondaga County project to separate storm-water runoff from the sanitary sewer line was to begin in 2011. But the county put off the work for a year to make room for the city's work on Erie Boulevard, said Matt Millea, deputy county executive for physical services.

"We didn't want to pile project, on top of project, on top of project," onto motorists, he said.

Traffic will be impacted as the barrels and cones move to make way for the work installing 2,000 feet of new sanitary sewers, 800 feet of sewer lining, and disconnecting 20 building storm-water drains from sanitary sewers. It's part of the county's Save the Rain program.

The project also includes the rehabilitation of Robert R. Haggart Park, a pocket park on the corner of Clinton and West Genesee Streets, Millea said.

The work is scheduled to move along quickly to have the least amount of impact on motorists and people visiting restaurants, bars and businesses in the area, Millea said.

Depending on the weather, the county plans to have construction complete, including improvements to the park by August, he said this afternoon.

The project is part of a federal consent order dating to the 1990s to stop the overflow of sewage into Onondaga Lake.

Officials have said that some of the sewer lines in that area were built in 1875.

Proposed Limestone Plaza renovations could see changes

By Amanda Seef As of Tuesday, March 27, 2012 -10:24 a.m.

Fayetteville — Fayetteville's proposed renovations to Limestone Plaza could see some additional changes.

The village hopes to remediate the area to alleviate traffic concerns brought about by increased business. The village has teamed up with the county and the state Department of Transportation, along with engineer Jim Napolean, to figure out what's best for the area. At Monday's meeting, engineering firm Barton and Loguidice presented plans to help the village comply with the county's "Save the Rain" program. The grant funds are distributed to municipalities that are working to save and conserve rainwater. Additions to Limestone Plaza's previous plans would help do that, the engineers said Monday.

"It's a great win-win for the village," Mayor Mark Olson said.

The new parking spaces would be created out of porous asphalt that would allow rainwater to seep through the material. This would help the village control where the water goes, so that it does not overpower the sewer system.

The bump-outs in the intersections would also be constructed with rain gardens. Additional trees will help in the overall green infrastructure, as well as helping to calm drivers on the road.

The application for the Save the Rain grant is due Friday. The village should be hearing back soon after to see if it has received the funding for the drainage aspect of this project.

In other board news:

--There will be two public hearings at the April 9 regular meeting of the Fayetteville village board. The first will be for the budget. The tax rate is expected to stay the same in the budget proposed by Olson last month. The total budget, however, is expected to increase about 1.4 percent. Olson says he has achieved this overall $5.2 million budget without cutting services in the village.

The village will vote to adopt the budget on April 23.

Living Green Workshop to Be Offered by First Presbyterian Church, Liverpool

They are becoming known as the "green" church in the Village of Liverpool. Over 100 people turned out on February 7th to hear a presentation on climate change given by local meteorologist David Eichorn.

Now FPC Liverpool's Green Team has planned an interactive evening for Friday, March 30 at 7 pm, called "Living Green: Re-Working the Way You Live." Participates can learn ways to live a greener lifestyle from representatives of nine local businesses and organizations

- OCRRA (Onondaga County Recycling and Garbage Disposal program)
- Bruin's (trading and recycling of computer and electronic equipment)
- Habitat for Humanity's ReStore (reuse of housing materials, fixtures, appliances)
- Ballantyne Gardens (organic gardening)
- Save the Rain Program (storm water management plan)
- Julie's Organic Ice Cream and Frozen Desserts
- NYR-Neal's Yard Remedies
- Grindstone CSA-Community Supported Agriculture (locally grown produce)
- Ashley-McGraw Architects (sustainable building practices)

The First Presbyterian Church of Liverpool is located at 603 Tulip Street, with plenty of parking. Bring a friend and learn how we can Go Green for God!

FINANCIAL UPDATE

Financial Update

Contracts

New Contracts

Green Improvement Fund (GIF)

- Contract with Consuela's Westside Taqueria & BBQ for reimbursement of green improvements in the Harbor Brook sewershed.

  Contract Amount: $47,552. Executed: 3/8/12

Amendments to Existing Contracts

Save the Rain

- Contract with Syracuse University's Environmental Finance Center for additional public education and outreach.

  Contract Amendment Amount: $290,000. Executed: 3/7/12

Change Orders

CSO 044 Conveyance Project

- Contract with Joseph J. Lane Construction, Inc. amended to include various modifications, including realignment of the 44-inch combined sewer and emergency repair to the 44" pipe.

  Change Order Amount: $379,089.09. Executed: 3/20/12

Green Infrastructure – Cistern System at War Memorial Arena

- Contract with Joy Process Mechanical, Inc. amended to include costs for a stainless steel water heater.

  Change Order Amount: $3,075.00. Executed: 3/1/12

Green Infrastructure – Geddes Street Road Reconstruction

- Contract with John R. Dudley Construction, Inc. amended to include costs for various modifications, including catch basin repair, additional sidewalk removal, and installation of new curbing and stonework.

  Change Order Amount: $28,533.24. Executed:3/1/12

Green Infrastructure – Sunnycrest Arena Parking Lot

- Contract with Ruston Paving amended to include costs of shimming additional areas with binder.

  Change Order Amount: $3,372.20. Executed: 3/1/12

Green Infrastructure – Skiddy Park Enhancements

- Contract with Acts II Construction, Inc. amended to include costs associated with reconfiguration of drainage pipes and additional planting soil.

  Change Order Amount: $12,902.46. Executed: 3/21/12

Green Infrastructure – Hughes Magnet School Parking Lot

- Contract with Acts II Construction, Inc. amended to include costs associated with various modifications, including additional asphalt, revised pipe inverts, and changes to the sidewalk.

  Change Order Amount: $25,283.09. Executed; 3/21/12

Funding

Grants

State Bond Act Funds

- Reimbursements requested in March:
  Clinton Storage for $1,371,869.96 on 3/22/12

- Reimbursements received in March:
  Clinton Storage for $1,158,681.68 on 3/5/12

Total payments received to date in State Bond Act funds: $134,440.161.

Federal EPA Funds

- Reimbursements requested in March:
  Harbor Brook for $370,422.81 on 3/8/12

- Reimbursements received in March: None

Federal Army Corps of Engineers Funds

- Reimbursements received in March: None

- Reimbursements requested in March:
  WQM for $22,223.09 on 3/7/12

EFC Loans

- Reimbursements received in March: None

- Reimbursements requested in March: None

- Long Term EFC loan requested in March: None

Total reimbursement monies received to date through EFC loans for the funded ACJ projects: $188,411,760 (short term) and $46,323,901 (long term).

Onondaga County Lake Improvement Project

4th Stipulation of the ACJ

Clinton/Lower MIS CSO Improvements

Summary of Current and County Authorizations

Project **/Task**/Line Item	Total Project Costs		
	Total Proposed Budget	Expended To Date	Authorization Remaining
Clinton Street CSO Facility Planning (Original)			
Engineering Services (EEA)	$ 751,266	$ 751,266	$ (0)
Original Facility Plan Subtotal	**$ 751,266**	**$ 751,266**	**$ (0)**
Clinton Street CSO Conveyances Project			
Contract No. 1 - Phase 1 Conveyances (Delaney)	$ 14,478,053	$ 14,478,053	$ (0)
Contract No. 2 - Phase 2A Conveyances (Delaney)	$ 4,074,455	$ 4,074,455	$ (0)
Construction Testing (CME)	$ 5,095	$ 25,471	$ (20,376)
Engineering/Construction Services (CDM/C&S)	$ 2,738,000	$ 2,746,814	$ (8,814)
Conveyances Subtotal	**$ 21,295,603**	**$ 21,324,793**	**$ (29,190)**
Clinton Storage Project (1)			
Construction Estimate (with contingency)	$ 58,000,000	$ 7,458,886	$ 50,541,114
Engineering Services (EEA and others)	$ 8,500,000	$ 7,054,819	$ 1,445,181
Construction Management and Administration	$ 3,600,000		$ 3,600,000
Project Escalation to Midpoint of Construction	$ 3,500,000		$ 3,500,000
CSO Storage Subtotal	**$ 73,600,000**	**$ 14,513,706**	**$ 59,086,294**
Facility Plan for CSOs 027 & 029			
Construction Estimate	$ 3,100,000		$ 3,100,000
Engineering Services (Ch2MHill)	$ 88,944	$ 91,186	$ (2,242)
Engineering Services (TBD)	$ 770,000		$ 770,000
County Administration and Other Costs	$ -		$ -
Facility Plan Subtotal	**$ 3,958,944**	**$ 91,186**	**$ 3,867,758**
Clinton/Lower MIS Green Implementation Program			
Construction Contracts incl. GIF Public/Private	$ 38,508,611	$ 6,762,108	$ 31,746,503
Ch2MHill Program Management & Engineering	$ 15,900,000	$ 5,887,013	$ 10,012,987
Green Subtotal	**$ 54,408,611**	**$ 12,649,120**	**$ 41,759,491**
Program Management			
Project Management (CDM/C&S)	$ 1,811,903	$ 1,641,925	$ 169,978
Project Management for Facility Plan (CDM/C&S) (2)	$ -		$ -
Program Management Subtotal	**$ 1,811,903**	**$ 1,641,925**	**$ 169,978**
Miscellaneous County Costs			
Land Acquisition	$ 4,132,400	$ 2,077,200	$ 2,055,200
IMA	$ 4,861,000	$ 3,872,305	$ 988,695
Legal	$ 64,564	$ 50,608	$ 13,957
Consulting (John Clare & Mezey)	$ 226,334	$ 226,334	$ 0
Debt	$ 175,832	$ 184,885	$ (9,053)
Other	$ 117,644	$ 141,135	$ (23,491)
Miscellaneous Subtotal	**$ 9,577,774**	**$ 6,552,466**	**$ 3,025,308**
Total	**$ 165,404,101**	**$ 57,524,462**	**$ 107,879,639**
Authorized Master Budget 165,500,000			

Notes:

(1) Includes engineering costs from original Clinton RTF Project

(2) CDM/C&S Project Management costs are included in the total facility plan costs

Onondaga County Lake Improvement Project

4th Stipulation of the ACJ

Harbor Brook Drainage Basin CSO Abatement

Summary of Current and Proposed Costs, and County Authorizations

	Total Project Costs		
Project **/Task/**Line Item	Total Proposed Budget	Expended to Date	Authorization Remaining
Harbor Brook CSO Abatement Project			
Original Engineering Expenses	**$ 5,500,000**	**$ 5,500,000**	**$ -**
HBIS Replacement and CSO Abatement Project			
Construction Contract No. 1 (1) (JJ Lane)	$ 18,289,918	$ 18,744,358	$ (454,440)
Other Miscellaneous Work	$ 2,482,920	$ -	$ 2,482,920
Engineering/Construction Sevices (CDM/C&S)	$ 2,012,615	$ 2,188,467	$ (175,852)
County Administration and Other Costs	$ 114,547	$ 118,662	$ (4,115)
HBIS Replacement and CSO Abatement Project Total	**$ 22,900,000**	**$ 21,051,487**	**$ 1,848,513**
Lower Harbor Brook Storage & Conveyance			
Construction Estimate (with contingency)	$ 34,502,000	$ -	$ 34,502,000
Engineering Services (EEA)	$ 4,200,000	$ 1,645,727	$ 2,554,273
Engineering Services (CDM/C&S)	$ 3,390,000	$ 245,212	$ 3,144,788
Project Escalation to Midpoint of Construction	$ 2,280,000	$ 48,450	$ 2,231,550
Lower Harbor Brook Storage & Conv Total	**$ 44,372,000**	**$ 1,939,389**	**$ 42,432,611**
Harbor Brook CSOs FCF Program			
Construction Estimate	$ 12,000,000		$ 12,000,000
Engineering Services (Arcadis)	$ 1,878,731	$ 74,300	$ 1,804,432
County Administration and Other Costs	$ 800,000		$ 800,000
Project Escalation to Midpoint of Construction	$ 400,000		$ 400,000
FCF Program Total	**$ 15,078,731**	**$ 74,300**	**$ 15,004,432**
Other Harbor Brook Green			
Construction Contracts incl. GIF Public/Private & Rain Barrels	$ 9,300,000	$ 1,290,531	$ 8,009,469
Ch2MHill Engineering & Program Management	$ 3,650,000	$ 1,851,381	$ 1,798,619
Harbor Brook Green Project Total	**$ 12,950,000**	**$ 3,141,912**	**$ 9,808,088**
Program Management			
Project Management (CDM/C&S)	$ 499,269	$ 398,250	$ 101,019
Project Management for FCF Plan Implem (CDM/C&S)	$ -		
Program Management Total	**$ 499,269**	**$ 398,250**	**$ 101,019**
Harbor Brook Mitigation	**$ 3,500,000**	**$ 3,265,000**	**$ 235,000**
Total Costs for Harbor Brook CSO Area under 4th Stip	**$ 104,800,000**	**$ 35,370,338**	**$ 69,429,662**

Onondaga County Lake Improvement Project

4th Stipulation of the ACJ

Midland CSO Abatement

Summary of Current and Proposed Costs, and County Authorizations

	Total Project Costs		
Project **/Task**/Line Item	Total Proposed Budget	Expended to Date	Authorization Remaining
Midland Ave. RTF & Conveyances			
Midland Phase 1 Conveyances - Construction	$ 1,836,434	$ 1,836,434	$ (0)
Midland Phase 2 RTF & Conveyances - Construction	$ 53,372,390	$ 53,372,689	$ (299)
Midland Demolition Contracts - Construction	$ 748,483	$ 748,483	$ 0
Other Construction	$ 124,579	$ 124,579	$ (0)
Phase 1 and 2 Engineering (Parsons & EEA)	$ 14,717,163	$ 12,503,353	$ 2,213,810
CME Construction Testing	$ 213,745	$ 164,192	$ 49,553
RTF Modifications (Construction, Eng, CM, Admin)	$ 3,000,000		$ 3,000,000
Facility Plan Total	**$ 74,012,794**	**$ 68,749,730**	**$ 5,263,064**
			$ 5,263,064
CSO 044 Conveyances Project			
Contract No. 6. - JJ Lane	$ 7,701,898	$ 6,066,869	$ 1,635,029
Construction Contingency 5%	$ 770,190	$ -	$ 770,190
Engineering Services (EEA)	$ 664,921	$ 492,958	$ 171,963
Construction Management Sevices (CDM/C&S) see below			$ -
Conveyances Project Total	**$ 9,137,009**	**$ 6,559,827**	**$ 2,577,182**
			$ 2,577,182
FCF Facility Plan			
Construction Estimate	$ 5,000,000	$ -	$ 5,000,000
Engineering Services (Arcadis and others)	$ 623,954	$ 13,942	$ 610,012
Construction Management and Administration	$ 210,000		$ 210,000
Project Escalation to Midpoint of Construction	$ -		
Clinton Storage Project Total	**$ 5,833,954**	**$ 13,942**	**$ 5,820,012**
			$ 5,820,012
Facility Plan for Midland CSOs			
Construction Estimate	$ 14,900,000	$ -	$ 14,900,000
Engineering Services (Ch2MHill)	$ 118,384	$ 121,368	$ (2,984)
Engineering Services, County Admin, ect (TBD)	$ 3,720,000	$ -	$ 3,720,000
Facility Plan Total	**$ 18,738,384**	**$ 121,368**	**$ 18,617,016**
			$ 18,617,016
Midland Green Implementation Program			
Construction Contracts incl. GIF Public/Private	$ 7,500,000	$ 648,575	$ 6,851,425
Ch2MHill Program Management & Engineering	$ 3,202,341	$ 961,303	$ 2,241,038
Clinton Green Program Total	**$ 10,702,341**	**$ 1,609,879**	**$ 9,092,462**
			$ 9,092,462
Program Management			
Project Management (CDM/C&S) includes CSO 044	$ 6,530,602	$ 5,887,947	$ 642,655
Project Management for Facility Plan (CDM/C&S) [1]		$ -	
Program Management Total	**$ 6,530,602**	**$ 5,887,947**	**$ 642,655**
			$ 642,655
Miscellaneous County Costs			
Land Acquisition	$ 1,806,946	$ 1,806,802	$ 144
IMA			
Legal	$ 182,323	$181,975	$ 348
Consulting (John Clare & Mezey)	$ 208,317	$ 194,317	$ 14,000
Debt	$ 635,031	$ 495,031	$ 140,000
Other	$ 509,615	$ 515,449	$ (5,834)
Miscellaneous Costs Total	**$ 3,342,232**	**$ 3,193,573**	**$ 148,659**
Total Cost for Midland project under 4th stipulation	**$ 128,297,316**	**$ 86,136,268**	**$ 42,161,048**
Authorized Master Budget $128,300,000			

Onondaga County Lake Improvement Project

4th Stipulation of the ACJ

Sewer Separation of CSO Areas 022/038/040/045/046A/046B/047/048/050/051/053/054

Summary of Current and Proposed Costs, and County Authorizations

	Total Project Costs		
Project **/Task/Line Item**	Total Proposed Budget	Expended to Date	Authorization Remaining
Sewer Separation Construction Contracts			
CSO 024 (Falter)	$698,864	$698,864	$0
CSO 053/054 (Falter)	$2,000,817	$2,000,817	$0
CSO 038//40/046A/046B (Falter)	$3,598,931	$3,524,487	$74,444
CSO 047/048 (Falter)	$1,654,022	$1,654,022	$0
CSO 050 (Lane)	$4,362,188	$4,362,188	$0
CSO 051 (Lane)	$5,037,280	$5,037,280	$0
CSO 022/045 (estimated Project Costs)	$6,750,000	$0	$6,750,000
Construction Total	**$24,102,102**	**$17,277,659**	**$6,824,443**
Service Contracts (Engineering /Consulting /Program Management)			
ACE	$484,286	$484,286	$0
CDM/C&S	$1,446,468	$1,316,791	$129,677
CME	$109,492	$49,704	$59,788
Department of the Army	$153,504	$153,504	$0
Spectra	$437,996	$437,996	$0
Engineering/Management Total	**$2,631,746**	**$2,442,280**	**$189,466**
Miscellaneous County Costs			
City of Syracuse	$135,084	$135,084	$0
Consulting (John Clare & Mezey)	$101,425	$101,425	$0
Debt	$116,269	$106,269	$10,000
Legal	$14,235	$14,235	$0
Other	$13,540	$4,093	$9,447
Miscellaneous Costs Total	**$380,553**	**$361,105**	**$19,448**
Total	**$27,114,401**	**$20,081,045**	**$7,033,356**
Authorized by Legislature $27,684,286			

Onondaga County Lake Improvement Project
Save The Rain Education and Outreach Grant
Summary of Current and Additional Costs, and County Appropriations
March 2012

Funding Sources			**Appropriations**
Program Funding			
09,10,11 Appropriations			$ 875,000
2011 Suburban Green Infrastructure			$ 200,000
2012 Appropriation			$ 400,000
2011 Trolley Lot Parking Mitigation Appropriation*			$ 125,000
Total Appropriation			$ 1,600,000
Funding Uses			
Retz Advertising + Design	**Contract Amount**	**Expended to Date**	**Difference + (-)**
2010/2011 Marketing Services	$ 411,789	$ 411,789	*$ -*
2012 Marketing Services	$ 218,211	$ 31,723	*$ 186,488*
Marketing Services Subtotal	$ 630,000	$ 443,512	*$ 186,488*
Environmental Finance Center Education and Outreach	**Contract Amount**	**Expended to Date**	**Difference + (-)**
2011 Education and Outreach	**$ 346,677**	**$ 346,677**	**$ (0)**
Environmental Finance Center	*$ 48,475*		*$ 48,475*
SUNY ESF	*$ 25,027*		*$ 25,027*
Onondaga Environmental Institute	*$ 120,500*		*$ 120,500*
Onondaga Earth Corps	*$ 23,503*		*$ 23,503*
Baltimore Woods Nature Center	*$ 35,190*		*$ 35,190*
ASLF	*$ 2,937*		*$ 2,937*
Non Labor Expenses (EFC)			
Printing	*$ 20,461*		*$ 20,461*
Postage	*$ 5,922*		*$ 5,922*
Travel	*$ 196*		*$ 196*
Facilities	*$ 6,665*		*$ 6,665*
Program Related Supplies	*$ 7,282*		*$ 7,282*
Indirect/Overhead	*$ 51,062*		*$ 51,062*
2012 Education and Outreach	**$ 347,219**	**$ -**	**$ 347,219**
Education & Outreach Subtotal	**$ 693,896**	**$ 346,677**	**$ 347,219**
Miscelaneous Ed/Outreach Expenses	**Contract Amount**	**Expended to Date**	**Difference + (-)**
2010/2011 Miscellaneous Exp.	$ 105,764	$ 105,764	$ -
2012 Miscellaneous Exp.	$ 121,590		$ 121,590
Purchase Card		$ 282	
CME		$ 280	
Travel		$ 1,909	
2010/2011 media	$ 28,750	$ 28,750	$ -
2012 Media	$ 20,000	$ -	$ 20,000
Miscellaneous Subtotal	$ 276,104	$ 136,985	$ 139,119
STR Education and Outreach Totals	**Contract Amount**	**Expended to Date**	**Difference + (-)**
	$ 1,600,000	**$ 927,175**	**$ 672,825**
Remaining Balance			**$ 672,825**

*Trolley lot parking mitigation money is from the Clinton CSO Storage Facility Budget and is funding education and outreach specific to that project.

APPENDIX

February 2012

FINANCIAL TRACKING SUMMARY:					
FEDERAL & STATE GRANTS/LOANS APPLIED FOR, NOT YET APPROVED					
	ORIGINAL	EFC	EFC		NYS
PROJECT NAME	BUDGET	SHORT TERM	LONG TERM	E.P.A.	FUNDING
METRO - CURRENT					
AERATION SYSTEM UPGRADE	$8,500,000				
AMMONIA REMOVAL DEMO	$2,000,000				
BIOSOLIDS - MECHANICAL THICKENERS					
DIGESTER MOD/CHEMICAL STORAGE	$5,600,000				
DIGITAL SYSTEM IMPROVEMENTS	$2,900,000				
MISCELLANEOUS IMPROVEMENTS	$1,400,000				
ODOR CONTROL	$7,700,000				
AMMONIA REMOVAL FULL SCALE/ STAGE II PHOSPHORUS REMOVAL	$190,000,000				
PHOSPHORUS REMOVAL PILOT	$5,000,000				
CSO - CURRENT					
CLINTON ST CONVEYANCE & RTF	$31,245,000				
ERIE BLVD SEW SEP STORAGE	$3,000,000				
FRANKLIN ST FCF	$3,200,000				
HARBOR BROOK FCF	$250,000				
HARBOR BROOK CSO ABATEMENT	$5,444,000				
HIAWATHA INTERCEPTOR/RTF	$8,000,000				
KIRKPATRICK ST PUMP STATION	$5,642,000				
MALTBIE ST FCF	$250,000				
MIDLAND AVE CONVEYANCE	$3,000,000				
MIDLAND AVE PHASE II & RTF	$45,000,000				
MIDLAND AVE PHASE III	$27,000,000				
MIDLAND AVE MITIGATION COSTS					
NEWELL ST FCF	$1,310,000				
ONONDAGA CREEK FCF	$3,000,000				
SEWER SEPARATION	$7,704,000				
SIPHON REHABILITATION	$1,230,000				
TEALL BROOK FCF	$175,000				
WEST ST SEWER SEPARATION	$1,000,000				
OTHER					
AMBIENT WATER MONITORING	$8,000,000				
OXYGENATION DEMO	$2,400,000				
SEQR REGULATORY	$50,000				
TOTAL DOLLARS	***$380,000,000**	$0	$0	$0	$0
***Original budget figures were based on 1997 dollars**					

February 2012

	FINANCIAL TRACKING SUMMARY: FEDERAL & STATE GRANTS/LOANS APPROVED & RECEIVED										
		NYS	NYS	FED EPA	FED EPA	SHORT-TERM	SHORT-TERM	LONG-TERM	LONG-TERM	ACE	ACE
	PROJECT	GRANT	GRANT	GRANT	GRANT	EFC LOAN	EFC LOAN	EFC LOAN	EFC LOAN	GRANT	GRANT
PROJECT NAME	BUDGET	APPROVED	RECEIVED	APPROVED	RECEIVED	APPROVED	RECEIVED	APPROVED	RECEIVED	APPROVED	RECEIVED
METRO - CURRENT											
AERATION SYSTEM UPGRADE	$8,500,000	$5,834,381	$5,834,381			$7,365,000	$6,868,954	$1,049,185	$14,613		
AMMONIA REMOVAL DEMO	$2,000,000	$1,145,109	$1,145,109			Full-Scale	$202,078				
BIOSOLIDS-MECHANICAL THICKENERS (c)								$14,676,422	$14,711,148		
DIGESTER MOD/CHEMICAL STORAGE	$5,600,000	$4,319,819	$4,319,819			$4,938,419	$4,938,419	$775,509	$154,126		
DIGITAL SYSTEM IMPROVEMENTS	$2,900,000	$1,563,317	$1,563,317			$1,849,000	$1,849,000	$285,682	$3,833		
MISCELLANEOUS IMPROVEMENTS	$1,400,000										
ODOR CONTROL	$7,700,000							$7,413,199	$7,389,197		
AMMONIA REMOVAL FULL SCALE/ STAGE II PHOSPHORUS REMOVAL	$190,000,000	$47,331,203	$47,331,203	$54,705,015	$54,705,015	$108,000,000	$105,860,930	$17,200,000	$989,323		
PHOSPHORUS REMOVAL PILOT	$5,000,000					Full Scale	$1,936,991				
CSO - CURRENT											
CLINTON ST CONVEYANCE & RTF	$31,245,000	$51,120,000	$24,501,480			$37,788,890	$9,334,263	$15,603,494	$3,731,790		
ERIE BLVD SEW SEP STORAGE	$3,000,000	$1,700,000	$1,700,000			$2,301,876	$2,094,314	$923,162	$216,543		
FRANKLIN ST FCF	$3,200,000	$3,828,053	$3,828,053			$4,726,762	$4,589,759	$1,179,012	$296,823		
HARBOR BROOK FCF	$250,000	$384,200	$384,200					$343,500	$348,596		
HARBOR BROOK CSO ABATEMENT	$5,444,000	$3,880,000	$3,880,000			$53,689,500	$20,008,299				
HIAWATHA INTERCEPTOR/RTF (a)	$8,000,000							$2,710,169	$37,749	$3,406,000	$3,406,000
KIRKPATRICK ST PUMP STATION	$5,642,000	$7,502,302	$7,502,302			$12,000,000	$10,940,632	$4,246,376	$828,115		
MALTBIE ST FCF	$250,000	$211,097	$211,097			$212,000	$188,106				
MIDLAND AVE CONVEYANCE	$3,000,000	$26,055,238	$26,055,238	$48,904,185	$31,706,143						
MIDLAND AVE PHASE II & RTF	$45,000,000					$15,000,000	$15,000,000	$25,155,568	$10,831,449		
MIDLAND AVE PHASE III	$27,000,000					$10,000,000					
MIDLAND AVE MITIGATION COSTS											
NEWELL ST FCF (b)	$1,310,000	$367,737	$367,737								
ONONDAGA CREEK FCF	$3,000,000	$442,154	$442,154								
SEWER SEPARATION (a)	$7,704,000							$7,231,454	$6,756,274	$14,050,177	$11,100,177
SIPHON REHABILITATION	$1,230,000	$870,768	$870,768			$1,435,500	$1,024,433	$140,623	$1,958		
TEALL BROOK FCF	$175,000	$1,045,162	$1,045,162			$1,236,594	$1,094,139	$188,809	$5,743		
WEST ST SEWER SEPARATION	$1,000,000	$2,299,460	$2,299,460			$3,059,716	$2,481,443	$395,540	$6,621		
OTHER											
AMBIENT WATER MONITORING	$8,000,000										
OXYGENATION DEMO	$2,400,000										
SEQR REGULATORY	$50,000										
TOTAL DOLLARS	***$380,000,000**	$159,900,000	$133,281,480	$103,609,200	$86,411,158	$263,603,257	$188,411,760	$99,517,704	$46,323,901	$17,456,177	$14,506,177
***Original budget figures were based on 1997 dollars**											
(a) NOTE: PROJECT IS US ARMY CORPS OF ENGINEERS PROJECT											
(b) NOTE: PROJECT RECEIVED $40,500 COST SHARE GRANT FROM (NYSERDA)											
(c)NOTE: PROJECT RECEIVED $87,500 COST SHARE GRANT FROM (NYSERDA)											

Lake Improvement Project Status Report For The Period Ending 3/31/2012

	Project Title	ACJ START DATE	ACJ FINISH DATE	COUNTY FINISH DATE	ORIGINAL BUDGET(2)	AUTHORIZED BUDGET	ENGINEER
	METRO - Current						
1	AERATION SYSTEM UPGRADE		7/1/2002	01/03/00	$ 8,500,000	$ 6,925,115	EEA
2	AMMON. REMOVAL DEMONSTRATION	11/1/1998	3/1/2000	12/31/99	$ 2,000,000	$ 1,350,000	EEA
3	BIOSOLIDS - MECHANICAL THICKENERS					$ 15,100,000	
4	DIGESTER MOD/CHEMICAL STORAGE		7/1/2002	10/31/00	$ 5,600,000	$ 5,092,545	C&S
5	DIGITAL SYSTEMS IMPROVEMENTS		7/1/2002	06/31/01	$ 2,900,000	$ 3,520,317	Systems Integrated
6	MISCEL. IMPROVEMENTS		7/1/2002	01/31/99	$ 1,400,000	$ 1,400,000	
7	ODOR CONTROL		7/1/2002	12/20/00	$ 7,700,000	$ 8,393,855	OBG
8	AMMONIA REMOVAL FULL SCALE/	10/1/2001	11/1/2003	11/01/03	$ 125,000,000	$ 129,386,187	EEA
	STAGE II PHOSPHORUS REMOVAL	10/1/2003	4/1/2005		$ 65,000,000		
9	PHOSPHORUS REMOVAL - PILOT	4/1/2006	4/1/2007	12/31/00	$ 5,000,000	$ 4,300,000	EEA
	CSO - Current						
10	CLINTON ST. CONVEYANCE/	5/1/2003	5/1/2007	10/28/06	$ 15,987,190	$ 165,500,042	EEA
	CLINTON ST. RTF	5/1/2007	1/1/2012	12/28/10	$ 15,258,090		
11	ERIE BLVD STORAGE SYSTEM		7/1/2002	04/13/02	$ 3,000,000	$ 2,684,523	Barton & Loguidice
12	FRANKLIN ST. FCF	4/26/1999	5/1/2000	05/01/00	$ 3,200,000	$ 5,216,618	EEA
13	HARBOR BROOK FCF		7/1/2002	07/01/02	$ 250,000	$ 889,109	EEA
14	HARBOR BROOK CSO ABATEMENT		7/1/2002		$ 5,443,980	$ 104,800,000	Moffa & Assoc.
15	HIAWATHA INTERCEPTOR/RTF		7/1/2002	12/31/00	$ 8,000,000	$ 6,047,183	EEA/Parsons
16	KIRKPATRICK ST. PUMP STATION		7/1/2002	10/29/02	$ 5,641,860	$ 12,558,335	EEA
17	MALTBIE STREET FCF	8/31/1998	7/1/2002	04/26/99	$ 250,000	$ 362,028	EEA
18	MIDLAND AVE RTF & CSO ABATEMENT	5/1/1999	5/1/2004	12/06/00	$ 75,000,000	$ 145,368,853	EEA
19	MIDLAND AVE MITIGATION COSTS					$ 3,000,000	
20	NEWELL STREET RTF		7/1/2002	07/01/01	$ 1,310,000	$ 473,132	Moffa & Assoc.
21	ONONDAGA CREEK FCF		7/1/2002	07/01/02	$ 3,000,000	$ 648,342	Parsons
22	SEWER SEPARATION		1/1/2012	01/01/12	$ 7,703,880	$ 27,684,286	OBG
23	SIPHON REHABILITATION		7/1/2002	06/11/99	$ 1,230,000	$ 1,026,391	C&S
24	TEALL BROOK FCF		7/1/2002	12/01/01	$ 175,000	$ 1,235,346	EEA
25	WEST ST SEWER SEPARATION	5/1/1999		01/14/00	$ 1,000,000	$ 2,720,572	CHA
26	ERIE BLVD CSO ABATEMENT						New Project
	OTHER						
27	AMBIENT WATER MONITORING		7/1/2002		$ 8,000,000		
28	OXYGENATION DEMO PROJECT	5/1/1999	4/1/2003	02/25/04	$ 2,400,000	$ 10,087	
29	SEQRA REGULATORY COMPLIANCE (1)				$ 50,000	$ 50,000	Parsons
	TOTAL DOLLARS (2)			*	$ 380,000,000	$ 655,742,866	
	***Original budget figures were based on 1997 dollars**						

(1) SEQR costs are reflected in the individual projects under total payments to date

(2) Original budget figures were based on 1997 dollars

Lake Improvement Project Status Report For The Period Ending 3/31/2012

	SOFT COST CONTRACTS	CONSTRUCTION CONTRACT AMOUNTS	TOTAL PAYMENTS TO DATE	FORECASTED COSTS	TOTAL ESTIMATED COST	OVER/UNDER BUDGET	% COMPLETED EXPENDITURES
1	$ 352,747	$ 6,473,110	$ 6,925,115		$ 6,925,115	$ (1,574,885)	100.00%
2	$ 1,346,856		$ 1,347,187		$ 1,347,187	$ (652,813)	100.00%
3	$ 1,266,416	$ 13,160,742	$ 14,773,814	$ 5,500	$ 14,779,314	$ 14,779,314	99.96%
4	$ 748,386	$ 4,357,480	$ 5,092,545		$ 5,092,545	$ (507,455)	100.00%
5	$ 451,713	$ 2,974,514	$ 3,520,317		$ 3,520,317	$ 620,317	100.00%
6			$ 1,400,000		$ 1,400,000	$ -	100.00%
7	$ 999,299	$ 6,956,868	$ 8,393,855		$ 8,393,855	$ 693,855	100.00%
8	$ 21,289,868	$ 106,962,810	$ 128,688,040		$ 128,688,040	$ (61,311,960)	100.00%
9	$ 4,055,734		$ 4,111,714	$ 2,109	$ 4,113,823	$ (886,178)	99.95%
10	$ 33,864,016	$ 100,811,763	$ 60,682,932	$ 104,817,110	$ 165,500,042	$ 134,254,762	36.67%
11	$ 901,556	$ 1,734,929	$ 2,684,523		$ 2,684,523	$ (315,477)	100.00%
12	$ 973,543	$ 3,920,238	$ 4,948,516	$ 2,018,689	$ 6,967,205	$ 3,767,205	71.03%
13	$ 436,363	$ 373,370	$ 889,109		$ 889,109	$ 639,109	100.00%
14	$ 16,317,222	$ 56,476,185	$ 39,779,485	$ 65,020,515	$ 104,800,000	$ 99,356,020	37.96%
15	$ 540,945	$ 5,535,152	$ 6,047,183	$ 3,406,000	$ 9,453,183	$ 1,453,183	63.97%
16	$ 2,520,394	$ 9,882,154	$ 12,558,335		$ 12,558,335	$ 6,916,475	100.00%
17	$ 109,483	$ 152,418	$ 362,028		$ 362,028	$ 112,028	100.00%
18	$ 23,901,207	$ 65,206,589	$ 87,114,629	$ 41,185,371	$ 128,300,000	$ 53,300,000	67.90%
19			$ 3,000,000	$ -	$ 3,000,000	$ 3,000,000	100.00%
20	$ 472,572		$ 473,132		$ 473,132	$ (836,868)	100.00%
21	$ 503,551		$ 648,342		$ 648,342	$ (2,351,658)	100.00%
22	$ 1,963,173	$ 22,881,164	$ 20,096,425	$ 5,740,258	$ 25,836,683	$ 18,132,803	77.78%
23		$ 1,021,823	$ 1,026,391		$ 1,026,391	$ (203,609)	100.00%
24	$ 320,039	$ 903,566	$ 1,235,346		$ 1,235,346	$ 1,060,346	100.00%
25	$ 403,332	$ 2,311,126	$ 2,720,572		$ 2,720,572	$ 1,720,572	100.00%
26					$ -		
27			$ 15,849,937	$ -	$ -		
28	$ 10,087		$ 10,087		$ 10,087	$ (2,389,913)	100.00%
29							
	$ 113,748,501	$ 412,096,001	$ 434,379,559	$ 222,195,552	$ 640,725,174	$ 268,775,174	

March 2012

	Project Title	TOTAL PAYMENTS TO DATE 3-31-12	TOTAL PAYMENTS TO DATE 2-29-12	Change
	METRO - Current			
1	AERATION SYSTEM UPGRADE	$ 6,925,115	$ 6,925,115	$ -
2	AMMON. REMOVAL DEMONSTRATION	$ 1,347,187	$ 1,347,187	$ -
3	BIOSOLIDS - MECHANICAL THICKENERS	$ 14,773,814	$ 14,754,506	$ 19,308
4	DIGESTER MOD/CHEMICAL STORAGE	$ 5,092,545	$ 5,092,545	$ -
5	DIGITAL SYSTEMS IMPROVEMENTS	$ 3,520,317	$ 3,520,317	$ -
6	MISCEL. IMPROVEMENTS	$ 1,400,000	$ 1,400,000	$ -
7	ODOR CONTROL	$ 8,393,855	$ 8,393,855	$ -
8	AMMONIA REMOVAL FULL SCALE/	$ 128,688,040	$ 128,688,040	$ -
	STAGE II PHOSPHORUS REMOVAL	$ -	$ -	
9	PHOSPHORUS REMOVAL - PILOT	$ 4,111,714	$ 4,111,714	$ -
	CSO - Current			$ -
10	CLINTON ST. CONVEYANCE/	$ 60,682,932	$ 60,122,372	$ 560,560
	CLINTON ST. RTF	$ -		$ -
11	ERIE BLVD STORAGE SYSTEM	$ 2,684,523	$ 2,684,523	$ -
12	FRANKLIN ST. FCF	$ 4,948,516	$ 4,948,516	$ -
13	HARBOR BROOK FCF	$ 889,109	$ 889,109	$ -
14	HARBOR BROOK CSO ABATEMENT	$ 39,779,485	$ 36,590,029	$ 3,189,456
15	HIAWATHA INTERCEPTOR/RTF	$ 6,047,183	$ 6,047,183	$ -
16	KIRKPATRICK ST. PUMP STATION	$ 12,558,335	$ 12,558,335	$ -
17	MALTBIE STREET FCF	$ 362,028	$ 362,028	$ -
18	MIDLAND AVE RTF & CSO ABATEMENT	$ 87,114,629	$ 86,299,781	$ 814,848
19	MIDLAND AVE MITIGATION COSTS	$ 3,000,000	$ 3,000,000	$ -
20	NEWELL STREET RTF	$ 473,132	$ 473,132	$ -
21	ONONDAGA CREEK FCF	$ 648,342	$ 648,342	$ -
22	SEWER SEPARATION	$ 20,096,425	$ 20,096,425	$ -
23	SIPHON REHABILITATION	$ 1,026,391	$ 1,026,391	$ -
24	TEALL BROOK FCF	$ 1,235,346	$ 1,235,346	$ -
25	WEST ST SEWER SEPARATION	$ 2,720,572	$ 2,720,572	$ -
26	ERIE BLVD CSO ABATEMENT	$ -	$ -	$ -
	OTHER			
27	AMBIENT WATER MONITORING	$ 15,849,937	$ 15,849,937	$ -
28	OXYGENATION DEMO PROJECT	$ 10,087	$ 10,087	$ -
29	SEQRA REGULATORY COMPLIANCE	$ -	$ -	$ -
				$ -
	TOTAL DOLLARS	$ 434,379,559	$ 429,795,387	$ 4,584,173

Chronology
of
Project Construction Starts

	Status	Location
Pre-ACJ Signing (1/20/98)		
• General Improvements	Complete	Metro
• Odor Control and Residuals Handling	Complete	Metro
1998		
• Digital Systems Upgrade	Complete	Metro
• Ammonia Removal Demonstration	Complete	Metro
• Aeration System Upgrade	Complete	Metro
• Hiawatha RTF - ACOE	Complete	Regional Market
• Newell St. RTF Demo/Improvements	Complete	W.Newell/Vale St.
• Maltbie St. FCF	Complete	Maltbie/Plum St.
• Siphon Rehab	Complete	Various
1999		
• Digester Modifications/Chemical Storage	Complete	Metro
• Franklin St. FCF	Complete	I-690/Franklin
• West Street Sewer Separation	Complete	W. Genesee, Plum, Tracy, N. West St.
• Ammonia Trackdown	Complete	Metro
2000		
• Midland Ave. Conveyance Phase I	Complete	Tallman/Oxford St.
• Phosphorus Removal – Phase I Pilot	Complete	Metro
2001		
• Erie Blvd. Storage System Upgrade	Complete	Franklin to Teall
• Full Scale Ammonia Removal/ Stage II Phosphorus Removal	Complete	Metro
• Kirkpatrick St. Pump Station & Force Main	Complete	Kirkpatrick St.
• Onondaga Creek FCF	Complete	Inner Harbor
• Teall Brook FCF	Complete	Teall Ave.
• Water Street Sewer Separation (CSO 024)	Complete	Water Street
2002		
• Harbor Brook FCF	Complete	W.Hiaw./I-690
• Brighton Ave Sewer Separation (CSO 053/054)	Complete	Brighton/Bishop Ave

Project	Status	Location
2004		
• Tallman/Onondaga Sewer Separation (CSO 038, 040, 046A &046B)	Complete	Tallman/Onondaga
• Midland Phase II RTF/Conveyances	Complete	Blaine/Oxford St.
2005		
• Phosphorus Removal – Phase II Pilot	Complete	Metro
• Biosolids Handling Improvements	Complete	Metro
2006		
• Sewer Separation – CSO 047 & 048	Complete	South Ave/ Bissell St.
2007		
• Sewer Separation – CSO 050	Complete	Parkway/Rockland
• Clinton Phase I Conveyances	Complete	
2008		
• Clinton Phase IIA Conveyances	Complete	
2009		
• Sewer Separation – CSO 051	Complete	Colvin St.
2010		
• Harbor Brook Interceptor Sewer	Authorized/Underway	Velasko/Fayette
• Save the Rain Green Projects	Authorized/Complete	Various
2011		
• Midland CSO 044	Authorized	W. Castle/South Ave
• Clinton Storage Facility	Authorized/Underway	Armory Square
• Lower Harbor Brook (Conveyance & Storage)	Authorized/Underway	Hiawatha/State Fair Blvd.
• Save the Rain Green Projects	Authorized/Underway	Various
• CSO 022 Sewer Separation Project	Authorized	West Genesee/Franklin
• CSO 045 Sewer Separation Project	Authorized	South Avenue

CONTRACTORS for
CONSTRUCTION PROJECTS
Metro Treatment Plant

AERATION SYSTEM UPGRADE	
Bongiovanni Construction (General)	$5,626,956.41
Ridley Electric (Electrical)	$ 846,154.00
DIGITAL SYSTEM UPGRADE	
Systems Integrated	$2,974,514.27
ODOR CONTROL CONTRACT # 1	
Falconet, Inc. (General)	$4,872,660.53
Scriba Electric (Electrical)	$ 315,580.30
Burns Bros. (Heating/Ventilation)	$ 82,459.00
Burns Bros. (Plumbing)	$ 50,168.00
ODOR CONTROL CONTRACT # 2	
Murnane Construction	$1,636,000.00
PHASE III IMPROVEMENTS CONTRACT 1 – DIGESTER & LAGOON IMPROVEMENTS	
Maxim Construction	$ 645,730.74
PHASE III IMPROVEMENTS CONTRACT 2 – CHEMICAL STORAGE & FEED FACILITIES	
C.O.Falter Construction Corp. (General)	$2,527,300.08
Barry & Barry Electrical Co. (Electrical)	$ 193,665.22
Burns Bros. (HVAC)	$ 224,232.51
Edward Joy Company (Plumbing)	$ 38,669.35
PHASE III IMPROVEMENTS CONTRACT 3 – DIGESTER & LAGOON CLEANING	
Waste Stream Environmental Inc.	$ 727,881.80
FULL SCALE AMMONIA/PHOSPHORUS REMOVAL - FIELD OFFICE	
James & Son Construction	$ 28,388.00
Resun Leasing, Inc.	$ 112,224.00
Ridley Electric Co.	$ 32,295.00
Burns Brothers	$ 18,440.00
FULL SCALE AMMONIA/PHOSPHORUS REMOVAL	
U.S. Filter – Kruger Products, Inc.	$ 8,261,182.00
U.S. Filter – Kruger Products, Inc.	$ 3,918,080.00

CONTRACTORS for CONSTRUCTION PROJECTS

Metro Treatment Plant

FULL SCALE AMMONIA/PHOSPHORUS REMOVAL

SITE PREPARATION - CONTRACT 2

C.O. Falter Construction Corp. (General)	$22,243,604.98
Ridley Electric (Electrical)	$ 255,627.00
C.O. Falter Construction Corp. (Pile Testing)	$ 431,008.00
Moretrench Environmental	$ 4,602,086.57

PILE INSTALLATION – CONTRACT 3

M.A. Bongiovanni Construction	$ 9,045,731.95

GENERAL - CONTRACT 4

The Pike Company (General)	$46,860,263.46
Ridley Electric Co. (Electrical)	$ 6,927,238.00
Edward Joy Company (HVAC)	$ 3,009,057.61
Burns Brothers (Plumbing/Fire Protection)	$ 1,217,583.74

BIOSOLIDS HANDLING IMPROVEMENTS

C.O. Falter Construction Corp. (General)	$10,929,016.19
Ridley Electric (Electrical)	$1,476,223.00
Airside Technology (HVAC)	$ 532,187.00
Burns Bros. (Plumbing)	$ 173,679.09

CSOs

CLINTON CONVEYANCES PHASE I & 2A

The Delaney Group, Inc.	$14,478,053.39
The Delaney Group, Inc.	$ 4,074,455.32

CLINTON CSO ABATEMENT

Ruston Paving (Farmers' Market Lot)	$ 188,046.14
Davis Wallbridge (Pearl St/Lot 3)	$ 635,873.93
Davis Wallbridge (Townsend St.)	$ 476,625.39
J&B (Pirro Conv. Center)	$1,038,000.00
C.O. Falter (War Memorial)	$ 692,298.87
Ridley (War Memorial)	$ 436,060.22
Economy Paving (On Center)	$1,044,969.49
J & B (Erie Canal Museum)	$ 73,480.00
Jett Industries (Clinton Storage)	$70,640,000.00
Joy Process Mechanical (Cistern War Memorial)	$ 82,615.00
C&S Technical (Cistern War Memorial)	$ 205,304.56

CONTRACTORS for
CONSTRUCTION PROJECTS
CSOs (cont)

Walbridge (Streetscape/Water St)	$1,156,018.84
Ruston Paving (Sunnycrest Parking Lot)	$ 410,372.00
Acts II Construction (Skiddy Park)	$ 559,902.46
D.E. Tarolli (Otisco Street)	$1,563,732.00
Orchard Earth & Pipe (Syr School Dist Park Lot)	$ 403,500.00
Slate Hill Construction (E. Water St)	$ 124,000.00
Jeffrey DeRoberts (GIF)	$ 99,311.00
King & King Architects (GIF)	$ 100,000.00
Jefferson Clinton Commons (GIF)	$ 100,000.00
ESF Foundation, Abby Lane Housing (GIF)	$ 78,000.00
Hotel Skyler (GIF)	$ 100,000.00
Near West Side Initiatives, Inc. (GIF)	$ 22,730.69
Near West Side Initiatives, Inc. (GIF)	$ 78,000.00
Tash Taskale (GIF)	$ 89,211.00
St. Lucy's Church (GIF)	$ 125,000.00
Putnam Properties (GIF)	$ 75,757.00
Centro (GIF)	$ 65,390.00
500 W. Onondaga St. Inc. (GIF)	$ 52,740.00
CNY Jazz Arts Foundation (GIF)	$ 52,188.00
Jim & Juli Boeheim Foundation (GIF)	$ 163,203.51
Home Headquarters, Inc. (GIF)	$ 36,045.00
Galleries of Syr, 147 E. Onondaga St (GIF)	$ 100,000.00
Syracuse Housing (GIF)	$ 120,290.00
Kopp Billing Agency (GIF)	$ 25,300.00
American Beech (GIF)	$ 53,050.00
Park Central Presbyterian Church (GIF)	$ 61,050.00

ERIE BOULEVARD STORAGE SYSTEM

M. Hubbard Construction	$1,556,752.00
Ridley Electric (Electrical)	$ 154,059.00
Burns Bros. (Mechanical)	$ 174,350.00
Scriba Electric (Electrical)	$ 144,640.61
Burns Bros. (Plumbing)	$ 33,217.97

HARBOR BROOK CSO ABATEMENT

Joseph J. Lane Construction (Interceptor Sewer Replacement)	$22,525,985.00
Bette Cring (Elephant Barn greening)	$ 207,701.00
John Dudley Construction (Geddes St)	$ 231,807.24
J & B Installations (Hazard Library/Erie Canal Museum)	$ 67,275.00
Economy Paving (Rosamond Gifford Zoo)	$ 616,410.00
J.J. Lane (Lower HB)	$4,147,888.00

CONTRACTORS for CONSTRUCTION PROJECTS

CSOs (cont)

A.J. Montclair (HB CSO Storage)	$ 260,000.00
C.O. Falter (HB CSO Storage)	$25,039,101.00
Vibrant Spaces, LLC (GIF)	$ 153,618.00
NYSARC, Inc. (GIF)	$ 95,053.00
Consuela's Westside Taqueria (GIF)	$ 47,552.00
PEACE (GIF)	$ 28,700.00
HARBOR BROOK FCF	
C.O. Falter Construction Corp. (General)	$ 373,370.21
KIRKPATRICK ST. PUMP STATION & FORCE MAIN	
C.O. Falter Construction Corp.	$ 4,398,009.12
C.O. Falter Construction Corp.	$ 4,425,766.31
Patricia Electric	$ 761,184.63
King & King Mechanical	$ 245,569.51
G.J. Adams Plumbing	$ 51,624.16
MALTBIE STREET FCF	
Over & Under Piping	$ 152,418.00
MIDLAND AVENUE CONVEYANCES	
Marcellus Construction (General)	$1,836,434.47
MIDLAND AVENUE PHASE II CONVEYANCES & RTF	
Empire Dismantlement Corp. (Demolition)	$ 457,681.50
Murnane Building Contractors, Inc. (General)	$47,929,392.75
Ridley Electric Company (Electrical)	$ 2,904,771.00
Edward Joy Company (HVAC)	$ 2,053,808.50
Edward Joy Company (Plumbing)	$ 484,717.17
MIDLAND AVENUE PHASE III CONVEYANCES	
Titan Wrecking & Environmental, LLC (Demolition)	$ 290,801.39
JJ Lane	$ 8,941,711.09
Acts II (Hugh's Magnet School Parking Lot)	$ 313,983.09
Jubilee Homes of Syracuse (GIF)	$ 100,000.00
Dunbar Association, Inc. (GIF)	$ 99,840.00
500 W. Onondaga St. Inc. (GIF)	$ 60,000.00
Syracuse Model Neighborhood (GIF)	$ 250,000.00

CONTRACTORS for CONSTRUCTION PROJECTS

CSOs (cont)

Alexander Property West (GIF)	$ 81,000.00
Viraj, NY, LLC (GIF)	$ 95,650.00
People's AME Zion Church (GIF)	$ 54,700.00
People's Community Dev. Corp (GIF)	$ 80,825.00
Matawon Development Group (GIF)	$ 24,214.00
Salina Shoe Salon (GIF)	$ 85,000.00
People's AME Zion Church (GIF)	$ 80,677.00

SEWER SEPARATION – CSO 022/045

Joy Process Mechanical (plumbing)	$ 1,031,235.00
Joseph J. Lane Construction	$ 4,581,888.00

SEWER SEPARATION – CSO 024

C.O. Falter Construction Corp.	$ 698,863.74

SEWER SEPARATION – CSO 053/054

C.O. Falter Construction Corp.	$ 2,000,817.40

SEWER SEPARATION – CSO 038, 040, 046A&B

C.O. Falter Construction Corp.	$ 3,524,487.29

SEWER SEPARATION – CSO 047 & 048

C.O. Falter Construction Corp.	$ 1,654,022.34

SEWER SEPARATION – CSO 050

Joseph J. Lane Construction	$ 4,360,527.06

SEWER SEPARATION – CSO 051

Joseph J. Lane Construction	$ 5,029,323.00

SIPHON REHABILITATION

Insituform Metropolitan	$1,021,822.99

TEALL BROOK FCF

C.O. Falter Construction Corp. (General)	$ 877,095.43
Scriba Electric (Electrical)	$ 26,470.20

WEST STREET AREA SEWER SEPARATION

Maxim Construction (General)	$2,311,125.85

WEP ACRONYMS

ACJ	Amended Consent Judgment
AMP	Ambient Monitoring Program
AMSA	Association of Metropolitan Sewerage Agencies
AWQS	Ambient Water Quality Standards
ARRA	American Recovery and Reinvestment Act
ASLF	Atlantic States Legal Foundation
BAF	Biological Aerated Filter (Biostyr)
BMP	Best Management Practice
BPJ	Best Professional Judgment
CALM	Consolidated Assessment and Listing Methodology
CAMP	Community Air Monitoring Plan
CIP	Capital Improvement Plan
CMOM	Capacity, Management, Operation, and Maintenance
CSLAP	Citizens Statewide Lake Assessment Program
CSO	Combined Sewer Overflow
CWA	Clean Water Act
DMR	Discharge Monitoring Report
DO	Dissolved Oxygen
EBM	Ecosystem-Based Management
ECM	Energy Conservation Measures
EECBG	Energy Efficiency and Conservation Block Grant
ELAP	Environmental Laboratory Approval Program
EMS	Environmental Management System
ERM	Environmental Resource Mapper
FCF	Floatable Control Facility
GIF	Green Improvement Fund
HRFS	High Rate Flocculation Settling
I & I	Inflow & Infiltration
IW	Industrial Wastewater
km	Kilometers
km^2	Square Kilometers
LA	Load Allocations

LF	Linear Feet
LAN	Local Area Network
m	Meters
MCP	Municipal Compliance Plan
Metro	Metropolitan Syracuse Wastewater Treatment Plant
MGD	Million Gallons Per Day
mg/L	Milligrams Per Liter
MIS	Main Interceptor Sewer
MS4s	Municipal Separate Storm Sewer Systems
mt	Metric Tons
NACWA	National Association of Clean Water Agencies
NBP	National Biosolids Partnership
NELAC	National Environmental Laboratory Accreditation Conference
NYSDEC	New York State Department of Environmental Conservation
NYSDOH	New York State Department of Health
NYSEFC	New York State Environmental Facilities Corp.
NYWEA	New York Water Environmental Association
OLP	Onondaga Lake Partnership
OLWQM	Onondaga Lake Water Quality Model
OU	Odor Unit
P2	Prevention Program
P2CO	Prevention Program County Operations
PdM	Predictive Maintenance
PIDs	Photo-ionization Detectors
PFRP	Process to Further Reduce Pathogens
PLA	Project Labor Agreement
RTF	Regional Treatment Facility
PWL	Priority Waterbodies List
SCA	Sediment Consolidation Area
SCADA	Supervisory Control and Data Acquisition
SEPS	Secondary Effluent Pump Station
SEQR	State Environmental Quality Review
SGIP	Suburban Green Infrastructure Program
SHB	Solids Handling Building

SMPs	Storm Water Management Practices
SOP	Standard Operating Procedure
SPDES	State Pollutant Discharge Elimination System
SRP	Soluble Reactive Phosphorus
SSES	Sanitary Sewer Evaluation Study
SSV	Site-Specific Variance
SUNY-ESF	State University of New York College of Science and Forestry
SWMM	Storm Water Management Modeling
SWMP	Storm Water Management Plan
SWPPP	Storm Water Pollution Prevention Plan
TDP	Total Dissolved Phosphorus
TMDL	Total Maximum Daily Load
TP	Total Phosphorus
TSI	Trophic State Index
UAA	Use Attainability Analysis
UFI	Upstate Freshwater Institute
ug/l	Micrograms per liter
USEPA	United States Environmental Protection Agency
USFWS	United States Fish and Wildlife Service
USGS	United States Geological Survey
UST	Underground Storage Tank
VOC	Volatile Organic Compounds
WAN	Wide Area Network
WLA	Waste Load Allocations
WEF	Water Environment Federation
WEP	Water Environment Protection
WSE	Waste Stream Environmental