

Save the Rain

Fourth Quarterly Report 2014



October - December 2014



Joanne M. Mahoney
County Executive

Save the Rain
www.savetherain.us

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

Excellence

Teamwork

Honesty

Innovation

Cost-Effectiveness

Safety



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Project Progress

Report from Commissioner

I take the opportunity to reflect on the past year in this report. We are all familiar with the best of/worst of top ten lists that circulate at this time of the year. I don't wish to miss the opportunity to not list my top ten for 2014, but please remember these are my thoughts and everyone else is entitled to their own list and prioritization. 2014 was a great year, but in truth, winning the NACWA National Award and the DEC Excellence Award in 2013 is a tough act to follow. Following a bottom up strategy:

- Honorable mentions for several big projects at the Metropolitan Wastewater Treatment Plant – the \$14.2 million phosphorous optimization project is on track and is now at the 25 percent design phase. The Metro Secondary Bypass Project, budgeted at \$20.2 million, is now at 50 percent design and is scheduled to come on line in April 2017. Each of these highly complex projects will make additional improvements in Onondaga Lake and are critical for continued regulatory compliance.
 - While not technically ACJ projects, also of honorable mention for 2014, WEP submitted the final paperwork to close two consent orders, Floradale and Viking Place. It is always good to reach closure on regulatory consent orders and more exciting to note is that Nick Capozza's great concept to repurpose an abandoned water line for use as a conduit to pull through a new force main resulted in a project which came in on time, under budget, and with less disruption to the community than would have been the case with traditional open cut construction.
 - Honorable mention too for some milestones accomplished in the clean-up of legacy industrial pollution. Honeywell completed the dredging phase of its clean-up of Onondaga Lake, and Lockheed Martin incorporated the replacement of Bloody Brook drainage district culverts into its remediation project.
10. Five of the County's six treatment plants were issued new State Pollution Discharge Elimination System (SPDES) permits. Each of these five new discharge permits contain more stringent effluent limits. The new Metro permit incorporates total maximum daily load (TMDL) requirements for phosphorous and represents a significant milestone in the effluent compliance obligations of the ACJ recognized as Metro's Stage III phosphorous limit. The major projects—described in my first honorable mention—are directly associated with this ACJ/Metro SPDES requirement.
 9. In order to meet its regulatory compliance responsibilities as efficiently as possible WEP has embraced the 21st century with some real technology improvements. Genuine thanks to the Legislature and the County Executive for enabling us to embrace GIS technology and Asset Management improvements. Together these tools are improving our capabilities and efficiency.
 8. We are pleased to again receive National Association of Clean Water Agency awards for five of our six treatment plants. The Wetzel Road treatment plant received a gold performance award and Meadowbrook-Limestone, Oak Orchard, Brewerton, and Baldwinsville-Seneca Knolls were awarded silver awards.
 7. To achieve national awards for excellent operations, the best efforts of the entire team at WEP are needed. In 2014 WEP again had in excess of 99 percent compliance with all treatment plant permit parameters. Attention to responsibility and detail by our Operations, Maintenance, Flow Control,

I&E, Laboratory, Source Control, Sampling, and Engineering groups are all critical for this very high rate of compliance.

6. A long overdue project at Metro, the Metro Grit Improvements Project, is already making huge benefits. The replacement of manual screens with new automatic screens at Metro's existing screen and grit building is simply tremendous. With these new automatic screens and related project improvements for grit collection, we are significantly improving safety, hydraulics, and treatment while better protecting downstream assets from grit and debris. These improvements also improve overall plant availability.
5. Energy use is a considerable segment of WEP's operating budget. While 2014 saw the addition of two new CSO storage facilities and their related new load, we also were able to mark several milestones. The boiler systems at Wetzel Road became fully operational on digester gas in late 2013 and early 2014. Waste at Metro is converted to gas for both electricity and heat. 2014 marked the third and final year of NYSERDA incentives for the cogeneration system. Total incentives for this project were \$831,476 for the three-year production incentive. Finally, the solar array at Oak Orchard was installed and is ready for connection to National Grid. All of these projects are consistent with the County's sustainability plan.
4. Clearly a mutual success for all parties associated with the ACJ is the development and approval of a five-year work plan for the AMP. This effort outlines the monitoring of receiving waters throughout the remainder of the ACJ. The five-year plan reduces the effort to revise an annual plan and allows everyone to better focus our resources on measurement and interpretation of results. WIN!
3. Recognizing the award-winning leadership responsible for the Save the Rain program, County Executive Mahoney was the keynote speaker at Stormcon—the largest annual conference in North America for stormwater and wastewater professionals. At this conference the Save the Rain program's "StormTV" video was selected as the national award winner. The County Executive also was a featured speaker at the National American Society of Civil Engineers meeting.
2. The Westside Initiative takes shape with a joint announcement by Governor Cuomo and County Executive Mahoney. WEP's Westside Pump Station is part of this initiative to improve the local economy and infrastructure on the west shore of Onondaga Lake. Also of note is DEC Commissioner Joe Marten's letting folks know he is ready to swim in the lake. Like a diamond, the lake's clarity and quality is now being revealed and brought to its greater potential.
1. This year's top honors, at least in one person's opinion, go to the Clinton and Harbor Brook Storage projects becoming operational for the entire year and also for these projects closing on the New York State Environmental Facilities low-interest loan. This loan closing also includes \$11,765,901 in ARRA grant loan forgiveness for work previously completed in the Lower Harbor Brook CSO abatement budget. Finally, this excellent relationship with EFC results in the first use of EFC financing for green infrastructure in New York State.

2014 was a busy and productive year; we thank all of our elected leaders, stakeholders, and partners in the ACJ program for their support.

Respectfully Submitted,



Tom Rhoads P.E.
Commissioner

GRAY PROJECTS UPDATE



FACT SHEET

Harbor Brook CSO 063 Conveyances Project

Project:	CSO 063 Conveyances
Project Owner:	Onondaga County
Project Location:	Harbor Brook, Erie Blvd. W.
Sewershed:	Harbor Brook
No. of CSOs Abated:	1
Completion Date:	September 1, 2015 (projected)
Contract Amount:	\$5,365,007
Bid Date:	April 28, 2014
Completion Date:	Summer 2015
Prime Contractor:	Marcellus Construction, Inc.

Project Description: The Harbor Brook CSO 063 Conveyances Project is the final conveyance pipeline associated with the Lower Harbor Brook CSO Storage Facility. This connection will allow additional wastewater to be stored at the facility for eventual treatment at the Metropolitan Wastewater Treatment Plant. The new project, Contract No. 5, consists of the following:

- 1,020 linear feet (LF) of pile supported 48-inch RCP sewer pipe
- New CSO 063 outfall and trash rack structure
- 156 LF of 48-inch pipe jacking under the SBNY Railroad
- 1,920 LF of 60-inch RCP sewer pipe
- New CSO 063 regulator structure and grit chamber

In addition, as part of the County's floatable removal program, approximately 90 catch basins in CSO Area 063 need new hoods for oil and debris limitations. There are also provisions for catch basin cleaning, rehabilitation or replacement if necessary.

Construction update: Marcellus Construction, Inc. began construction in November 2014 and has installed the sending and receiving pits for the 48-inch DIP jack and bore, manhole HW-6, and approximately 75 LF of pile supported 48-inch diameter RCP. The projected completion date for the project is late summer 2015.



Installation of the 48-inch reinforced concrete pipe on a pipe cradle upstream of manhole HW-6.

GREEN PROJECTS UPDATE

Green Projects Update

The 2014 construction season ended on a high note for the Onondaga County Save the Rain program. Construction was completed on capital improvements at Comfort Tyler Park in collaboration with the Syracuse Parks Department. The project included the installation of several green infrastructure improvements in addition to several site improvements to park infrastructure. Green infrastructure elements included rain garden systems, tree plantings, pavement removal, and added green space. The existing basketball courts were redeveloped using porous asphalt in collaboration with the Jim & Juli Boeheim Foundation (Courts 4 Kids program). Finally, the fountain at the park which ran continuously throughout the summer was replaced with a new spray fountain to prevent the overuse and unnecessary water from entering the sewer system. In total, the Comfort Tyler Park project will capture an estimated 982,000 gallons of stormwater annually.

In 2014, we also saw the completion of several green projects including: Magnarelli Community Center green roof, Hughes Magnet School Vacant Lot projects, and East Washington Street road reconstruction. Great progress was also made on the ongoing construction of Phases 2 & 3 of the Connective Corridor.

As the Save the Rain program looks to 2015, several green infrastructure projects are currently under consideration through the work of the Green Planning Committee (GPC). As reported previously, the GPC has been working to identify and facilitate future green infrastructure projects. The primary focus of the GPC has been in target CSO areas where additional stormwater mitigation is needed. The committee is comprised of representatives from the County Legislature, City of Syracuse, staff from the green infrastructure program management team, and a community representative. In 2014, the GPC held several meetings and established a framework to identify a comprehensive list of GI projects for future development.



FACT SHEET

Comfort Tyler Park

Courts 4 Kids

Project Description: The Comfort Tyler Park project highlights the continued partnership of the Save the Rain Program with the City of Syracuse Parks Department and the Jim and Juli Boeheim Foundation's Courts 4 Kids Program. Along with the green infrastructure installation, capital improvements were implemented within the park which were funded by the Parks Department.

The green infrastructure elements of this project include a rain garden at the northeast corner of the park. This rain garden captures runoff from both Comstock Avenue and East Colvin Street and is very similar to the rain gardens installed at Pass Arboretum, the Rosamond Gifford Zoo Entrance, and Leavenworth/Barker Park.

Additionally, the existing basketball court was replaced with a porous asphalt basketball court. Comfort Tyler Park is the fourth park in the City of Syracuse with a basketball court converted to porous pavement by Save the Rain Program in partnership with the Courts 4 Kids Program.

Finally, an infiltration trench and bioswale were constructed along Vincent Street at the south end of the park. This system will capture stormwater runoff from Vincent Street and will also provide a defined curb line that limits the illegal parking that commonly occurs in this area.

These green infrastructure elements capture runoff from within the park as well as from adjacent streets, totaling approximately 982,000 gallons of stormwater runoff capture annually. Construction of the project began in August 2014 and was substantially complete in November 2014.

Project:	Comfort Tyler Park
Project Owner:	City of Syracuse Parks Dept.
Project Location:	1212-14 East Colvin St and Comstock Ave
Sewershed:	Midland
CSO:	060/077
GI Technology:	Rain Garden, Bioswale, Porous Asphalt Basketball Court
Capture Area:	38,300 sq. ft.
Runoff Reduction:	982,000 gal/yr
Bid Price:	\$584,603.09
Year Contracted:	2014
Contractors:	D.E. Tarolli, J&J Landscaping



Completed Porous Asphalt Basketball Court



Progress Photo of the Rain Garden Installed at the Northeast End of Comfort-Tyler Park

Version 1/5/15



FACT SHEET

Connective Corridor: Phases 2 and 3

Project:	Connective Corridor – Phases 2 and 3
Project Owner:	City of Syracuse
Project Location:	East Genesee St. from Forman Ave. to State St. and West Fayette St. from Townsend St. to West St.
Sewershed:	Clinton/Lower MIS
CSO:	026, 027, 029, 030
GI Technology:	Green Street
Capture Area:	623,000 sq. ft.
Run-off Reduction:	10,975,000 gal/yr
Year Contracted:	2013
Bid Cost:	\$973,255 (Green Infrastructure Cost)
Prime Contractor:	Barrett Paving Materials

Project Description: Significant progress on constructing Phases 2 and 3 of the Connective Corridor was made in 2014, and both phases are scheduled to be completed in 2015. The project exemplifies the continued partnership of Onondaga County with the City of Syracuse and Syracuse University. The green infrastructure installed in this project includes porous pavers parking lanes and snow storage areas, tree pits, and underground infiltration trenches. Also included in the project is the manufactured treatment device, installed in the spring of 2014, providing water quality treatment for the West Fayette Street Sewer Separation project that was completed in 2013.

The green infrastructure installed in Phases 2 and 3 of the Connective Corridor captures runoff from streets, adjacent hardscapes, and upstream areas – a total of 623,000 square feet of drainage area. This equates to an estimated 10,975,000 gallons of stormwater capture annually.

These final two phases will complete the Connective Corridor. Phase 1 and Forman Park included similar green infrastructure and were constructed from 2011 to 2013. Upon completion, the Corridor as a whole will provide significant runoff reduction for the Save the Rain Program and also will create a valuable link between the Downtown and University communities. When complete, the three phases of the Connective Corridor will capture an estimated total of 26 million gallons of stormwater each year.



**Manufactured Treatment Device
Installed in the Spring of 2014**



**Porous Paver Parking Lane and Snow
Storage Area on E. Genesee St at
Firefighters Memorial Park**

Version 1/5/15



FACT SHEET

East Washington Street Green Corridor

Project:	E. Washington St. Green Corridor
Project Owner:	City of Syracuse
Project Location:	E. Washington St., Between Almond St. and Forman Ave.
Sewershed:	Clinton/Lower MIS
CSO:	027
GI Technology:	Green Street (Porous Pavers, Bioswale)
Capture Area:	76,900 sq. ft.
Runoff Reduction:	933,000 gal/yr
Year Contracted:	2013
Construction Cost:	\$710,161.78
Bid Date:	05/28/13
Contractor:	ACTS II Construction

Project Description: The East Washington Street Green Corridor project is a comprehensive green street application on the stretch of East Washington Street between Almond Street and Forman Avenue, near the Syracuse University Center of Excellence. Several green infrastructure elements were installed that capture stormwater and enhance the urban landscape.

The project included the an underground infiltration trench, a dedicated parking lane constructed with interlocking, concrete porous pavers, and bioswales along both sides of the street to store stormwater and reduce combined sewer overflows. In addition to these green infrastructure items, the entire streetscape has been retrofitted with new sidewalks and pedestrian crossings. The City of Syracuse and Onondaga County partnered to reconstruct Washington Street along the project limits in the spring of 2014.

The project captures approximately 933,000 gallons of runoff annually from both the street and adjacent properties.

This is the fourth Save the Rain project to be funded in part by the New York State Environmental Facilities Corporation through their Green Innovation Grant Program (GIGP). It joins the Rain Barrel Program, the War Memorial Cistern System, and the I-690 Downspout Disconnection projects as past and present projects with GIGP funding.



**Completed Bioswale on the North Side of
E. Washington St.**



**Interlocking Porous Paver Parking Lane and
Bioswale on Southern Side of E. Washington St.**



FACT SHEET

Hughes Magnet School Vacant Lots

Project Description: This is the third Save the Rain project at the Hughes Magnet School and the fifth and sixth Save the Rain Vacant Lot projects constructed to date. A new porous asphalt parking lot and tree planting projects were completed at the school in 2011 and 2012. A unique facet of this project is that the two vacant lot parcels (147 Hughes Place and 220 Lorraine Ave.) are located directly adjacent to Hughes Magnet School and are used by the school on a regular basis.

The green infrastructure technologies installed with this project include a rain garden system (including bioretention and infiltration systems) and an enhanced tree trench. The rain garden is located on the 147 Hughes Place vacant lot parcel and in conjunction with the underground infiltration bed adjacent to the school it is designed to capture stormwater from the northern half of the building roof and the adjacent parking lot. The rain garden is planted with native vegetation and serves as an educational asset for students at the school.

The tree trench on the 220 Lorraine Avenue vacant lot parcel captures runoff from the adjacent street and green space surrounding the school.

These green infrastructure elements capture an approximate annual total of 1.1 million gallons of stormwater. Furthermore, with the completion of this project, stormwater runoff from all of the impervious surfaces at the Hughes Magnet School is now captured by green infrastructure.

Project:	Hughes Magnet School Vacant Lots
Project Owner:	City of Syracuse, SCSD
Project Location:	Vacant Lots at 147 Hughes Pl. and 220 Lorraine Ave.
Sewershed:	Midland
CSO:	060/077
GI Technology:	Bioretention, Vegetated Infiltration Bed, Tree Trench
Capture Area:	23,700 sq. ft.
Runoff Reduction:	1,106,000 gal/yr
Year Contracted:	2014
Bid Price:	\$250,248.50
Contractors:	D.E. Tarolli, J&J Landscaping



**Rain Garden Constructed on 147 Hughes
Place Vacant Lot**



**Tree Trench Constructed on 220 Lorraine
Avenue Vacant Lot**



FACT SHEET

Magnarelli Community Center Green Roof

Project Description: The Magnarelli Community Center green roof project highlights the continued partnership of Onondaga County Save the Rain with the City of Syracuse Parks Department. This project is the first green roof constructed on City Parks' property and the tenth overall green park project in the Save the Rain Program to date. As part of the partnership on this project, the City Parks Department funded the cost of replacing the Community Center roof and insulation, while the Save the Rain program funded the cost of the green roof system.

Two separate green roofs were installed at the Community Center – one on the roof above the gymnasium and the other on a lower roof. The vegetated portion of the green roof consists of a low-growing sedum mat that, when established, will feature many vibrant colors throughout the year. Construction started in September 2014 and was substantially complete in November 2014. The green roof system at the Magnarelli Community Center captures approximately 183,000 gallons of stormwater annually.



Sedum Cuttings Under Wind Blanket

Project:	Green Roof at the Magnarelli Community Center
Project Owner:	City of Syracuse Parks Dept.
Project Location:	2300 Grant Blvd.
Sewershed:	Clinton
CSO:	020
GI Technology:	Green Roof
Capture Area:	10,400 sq. ft.
Runoff Reduction:	183,000 gal/yr
Year Contracted:	2014
Construction Cost:	\$115,000 (Green Infrastructure Cost)
Prime Contractor:	Josall Syracuse, Inc.



Lower Green Roof Upon Completion; Wind Blanket Installed to Protect Sedum Cuttings



Upper Green Roof Upon Completion; Wind Blanket Installed to Protect Sedum Cuttings

GREEN IMPROVEMENT FUND

Green Improvement Fund Update

The end of the 2014 construction season concluded with the completion of several projects for the Green Improvement Fund program.

GIF projects completed in fall and winter of 2014 include: 360 Warren Associates, Nojaim Bros. Supermarket, Onondaga Commons Rural Metro, Butternut Commons, and St. Lucy's Church Parking Lot.

The Green Improvement Fund program application period closed on December 5. The temporary hiatus is part of an annual program evaluation process to refine program scope and maximize capture opportunities in priority areas in the City. The 2015 application season will be announced in the spring with updated information including a revised map of eligible funding areas and revised program application documents.

Green Improvement Fund Summary (as of 12/31/14)

Projects Completed	70
Contract/Implementation Phase	30
Projects in Award Phase	5
Applications Under Review	8
Inactive/Ineligible	25
Total Applications Received	138



FACT SHEET

Green Improvement Fund

360 Warren Associates

Project Description: The 360 Warren Associates Green Improvement Fund project is located at 125 East Jefferson Street. The green roof was part of a large renovation project at the former HSBC Tower building.

The renovations to the building are consistent with other efforts to revitalize the financial district in the heart of downtown Syracuse. Project owners partnered with the Onondaga County Save the Rain program through the Green Improvement Fund to implement green infrastructure elements to manage the stormwater runoff in conjunction with the revitalization efforts.

Managing runoff throughout the site proved to be a difficult task due to the large amount of impervious surfaces and lack of green space on the property.

The property owner decided to install an extensive green roof system to manage stormwater on the majority of the roof. Approximately 4,926 square feet of green roof material was installed that will capture an estimated 86,800 gallons of stormwater annually.

Version 1/05/2015

Project:	360 Warren Associates
Project Owner:	Private
Project Location:	125 East Jefferson Street
Sewershed:	Clinton
CSO:	034
GI Technology:	Green Roof
Capture Area:	4,926 sq. ft.
Runoff Reduction:	86,800 gal/yr
Year Completed:	2014
GIF Award:	\$107,864



Photo of Green Roof Immediately After Construction



Green Roof Clippings Beneath Wind Blanket



FACT SHEET

Green Improvement Fund

Bethany Baptist Church:

Phase 2

Project Description: Bethany Baptist Church is located at 149 Beatie Street. The church has been serving the Syracuse community since 1887.

Recently, site improvements have been completed to revitalize aging infrastructure on the church campus. As part of these site improvements, the church partnered with the Onondaga County Save the Rain program through the Green Improvement Fund to install stormwater management features to mitigate runoff. The church completed construction of an overflow visitor's parking lot. The addition of the new parking lot was the second phase of a comprehensive site redevelopment.

Phase 2 of the project includes porous pavement parking lanes and 3 bioswales surrounding the parking lot. Approximately 12,699 square feet of green infrastructure was installed. It will capture an estimated 551,700 gallons of stormwater annually.

In the spring, Bethany Baptist Church completed renovations to the existing parking lot that also included the installation of green infrastructure features to manage the large amount of stormwater runoff on site. Combined with the green infrastructure installed in 2013 during Phase 1, nearly 2 million gallons of stormwater will be captured on the Bethany campus.

Project:	Bethany Baptist Church (Phase2)
Project Owner:	Private
Project Location:	149 Beatie Street
Sewershed:	Clinton
CSO:	o66
GI Technology:	Bioretention, Porous Pavement
Capture Area:	28,100 sq. ft.
Runoff Reduction:	551,700 gal/yr
Year Completed:	2014
GIF Award:	\$142,100



Parking Area Featuring Porous Pavement Parking Lanes



Subsurface Drainage Material for Porous Asphalt



FACT SHEET

Green Improvement Fund

Butternut Commons

Project:	Butternut Commons, LLC
Project Owner:	Private
Project Location:	Butternut and N. Townsend St.
Sewershed:	Clinton
CSO:	020
GI Technology:	Underground Infiltration
Capture Area:	41,382 sq. ft.
Runoff Reduction:	704,100 gal/yr
Year Completed:	2014
GIF Award:	\$104,430

Project Description: The Butternut Commons Green Improvement Fund project is located at the corner of Butternut and North Townsend Street. The project includes the redevelopment of the corner lot at Butternut and Townsend with construction of two new buildings that contain retail stores on the lower level and a total of 24 apartments on the upper level.

Butternut Commons LLC partnered with the Onondaga County Save the Rain program through the Green Improvement Fund to implement green infrastructure elements to manage the stormwater runoff at the redeveloped facility.

The stormwater runoff is captured using an underground infiltration system. In addition to managing the runoff from the parking surface being managed, all of the roof drains from the building will also be connected directly to the infiltration system, ensuring that the runoff from the whole property is now collected.

Approximately 3,524 square feet of green infrastructure was installed to capture an estimated 704,100 gallons of stormwater annually.



Installation of Underground Infiltration System



New Driving Lane Above Underground Infiltration System

Version 1/05/2015



FACT SHEET

Green Improvement Fund

J.C. Smith, Inc.

Project Description: The J.C. Smith, Inc. Green Improvement Fund project is located at 345 Peat Street. J.C. Smith, Inc. is one of the largest family-owned construction supply operations in Upstate New York.

Because excessive runoff was draining to the parking area on the Peat Street property, J.C. Smith, Inc. partnered with Onondaga County Save the Rain through the Green Improvement Fund to implement green infrastructure elements to manage the stormwater runoff on site.

The project features a porous pavement parking lot. Runoff from the parking lot is now directed to the porous pavement, which infiltrates stormwater into the underlying soils. Additionally, rain gardens were constructed at the entrance to capture adjacent road runoff and to provide a higher level of water quality.

Approximately 7,785 square feet of green infrastructure was installed to capture an estimated 394,000 gallons of stormwater annually.

Project:	J.C. Smith Inc.- 345 Peat Street
Project Owner:	Private
Project Location:	345 Peat Street.
Sewershed:	Clinton
CSO:	EBSS
GI Technology:	Porous Pavement, Rain Gardens
Capture Area:	22,376 sq. ft.
Runoff Reduction:	394,000 gal/yr
Year Completed:	2014
GIF Award:	\$84,411



Installation of Drainage Material



New Porous Pavement Parking Area

Version 1/05/2015



FACT SHEET

Green Improvement Fund

Onondaga Commons

Rural Metro Phase 1

Project Description: The Onondaga Commons Plaza is home to several local businesses on the Near Westside of Syracuse. Onondaga Commons has partnered with the Onondaga County Save the Rain program on several stormwater management projects as part of a comprehensive redevelopment of approximately 4 acres of surface parking area across the commercial property. The collection of projects includes a diverse mix of green infrastructure elements to manage stormwater on site.

The Onondaga Commons Rural Metro project includes the installation of porous pavement in the new parking area in front of the building. The porous pavement will capture the parking lot area as well as half of the Rural Metro building roof runoff (the remaining roof area will be directed to another Onondaga Commons green infrastructure project).

This portion of the Onondaga Commons project will have approximately 18,500 square feet of green infrastructure installed to capture an estimated 920,200 gallons of stormwater annually.

Project:	Onondaga Commons: Rural Metro Phase 1
Project Owner:	Private
Project Location:	506 West Onondaga Street Clinton
Sewershed:	036
CSO:	036
GI Technology:	Porous Pavement
Capture Area:	50,959 sq. ft.
Runoff Reduction:	920,200 gal/yr
Year Completed:	2014
GIF Award:	\$176,787



Installation of Subsurface Drainage Material



New Porous Pavement Parking Area



FACT SHEET

Green Improvement Fund

Onondaga Commons

Rural Metro Phase 2

Project:	Onondaga Commons Rural Metro Phase 2
Project Owner:	Private
Project Location:	414-16 West Onondaga Street
Sewershed:	Clinton
CSO:	036
GI Technology:	Porous Pavement, Added Green Space
Capture Area:	45,880 sq. ft.
Runoff Reduction:	808,000 gal/yr
Year Completed:	2014
GIF Award:	\$294,300

Project Description: The Onondaga Commons Plaza is home to several local businesses on the Near Westside of Syracuse. Onondaga Commons has partnered with the Onondaga County Save the Rain program on several stormwater management projects as part of a comprehensive redevelopment of approximately 4 acres of surface parking area across the commercial property. The collection of projects includes a diverse mix of green infrastructure elements to manage stormwater on site.

The Onondaga Commons Rural Metro project includes the installation of porous pavement in the new parking area behind the building. The porous pavement will capture runoff from the parking lot area as well as half of the Rural Metro building roof runoff (the remaining roof area was managed with the Rural Metro Phase 1).

This phase of the Onondaga Commons project will have approximately 37,650 square feet of green infrastructure installed to capture an estimated 808,000 gallons of stormwater annually.

Version 1/05/2015



Installation of Subsurface Drainage Material



New Porous Pavement Parking Area



FACT SHEET

Green Improvement Fund

St. Lucy's Church

Project:	St Lucy's Church
Project Owner:	Private
Project Location:	432 Gifford Street
Sewershed:	Clinton
CSO:	035
GI Technology:	Porous Pavement, Bioretention
Capture Area:	15,557 sq. ft.
Runoff Reduction:	274,000 gal/yr
Year Completed:	2014
GIF Award:	\$69,000

Project Description: The project at St. Lucy's Church is located at 125 East Jefferson Street. The Church has been serving Syracuse's Near West Side since 1873, and is considered a landmark in the neighborhood.

The parking lot adjacent to the rectory, which serves as parking for the congregation, was in need of repairs and better stormwater management. The Church partnered with the Onondaga County Save the Rain program by implementing green infrastructure elements to manage the stormwater runoff on site.

The project includes a porous pavement parking lot and bioretention system to manage the parking lot runoff and the majority of the roof runoff on site. Approximately 6,697 square feet of green infrastructure was installed that will capture an estimated 274,000 gallons of stormwater



Porous Pavement Parking Lot during Construction



Bioretention Basin



Constructed Porous Pavement Parking Lot



FACT SHEET

Green Improvement Fund Syracuse Center for Peace And Social Justice

Project Description: The Syracuse Center for Peace and Social Justice is located at 2013 East Genesee Street. The mission of the Center is to promote collaboration among groups working for progressive social change.

The Center recently constructed a parking area for the facility and in order to properly manage stormwater runoff from the site, they partnered with the Onondaga County Save the Rain through the Green Improvement Fund program to implement green infrastructure elements into the design.

The parking lot features porous pavement which works in conjunction with an underground infiltration system to capture and infiltrate stormwater runoff. Stormwater runoff that is not collected in the porous asphalt is directed to a series of catch basins and then conveyed into the infiltration system.

Additionally, a drywell system was installed on site to assist with stormwater capture across the property.

Approximately 6,356 square feet of green infrastructure was installed that will capture an estimated 160,000 gallons of stormwater annually.

Project:	Syracuse Center for Peace and Social Justice
Project Owner:	Private
Project Location:	2013 East Genesee Street
Sewershed:	Clinton
CSO:	EBSS
GI Technology:	Underground Infiltration, Porous Pavement, Drywell System
Capture Area:	8,046 sq. ft.
Runoff Reduction:	160,000 gal/yr
Year Completed:	2014
GIF Award:	\$57,700



Construction of Porous Pavement Parking Area



New Porous Pavement Parking Area



FACT SHEET

Green Improvement Fund

University Hill Apartments

Project Description: The Green Improvement Fund project at University Hill Apartments is located at 205 Westcott Street. The project includes the renovation of an existing parking lot and walkway for an apartment complex located in the Syracuse University Area.

University Hill Apartments partnered with Onondaga County Save the Rain through the Green Improvement Fund to implement green infrastructure elements to manage the stormwater runoff on-site.

Green infrastructure features were installed throughout the property with porous pavement installed in a parking area in front of the building. Additionally, roof drains have been connected to the parking area to capture approximately half of the roof runoff (along with the surface runoff from the parking lot). The remaining runoff is directed to the rear of the building, where a porous paver walkway was installed to work in conjunction with an underground infiltration system.

Approximately 11,176 square feet of green infrastructure was installed that will capture an estimated 299,100 gallons of stormwater annually.

Project:	University Hill Apartments
Project Owner:	Private
Project Location:	205 Westcott Street.
Sewershed:	Clinton
CSO:	020
GI Technology:	Underground Infiltration, Porous Pavement, Drywell System
Capture Area:	15,903 sq. ft.
Runoff Reduction:	299,100 gal/yr
Year Completed:	2014
GIF Award:	\$36,500



Installation of Underground Infiltration System



Porous Pavement Parking Area

Version 1/05/2015

**METRO WWTP PHOSPHORUS
PROJECTS/TMDL/AMBIENT
MONITORING PROGRAM
UPDATE**

Metro WWTP Projects

Metro WWTP Phosphorus Optimization Project

The Metro WWTP Total Phosphorus Treatment Optimization design project is currently in the design phase. The improvements include provisions for isolating the Biological Aerated Filter (BAF) trains and adding a chemical feed system for Polyaluminum Chloride (PAC) among other miscellaneous modifications. Construction of these improvements will be completed in 2017.

Ambient Monitoring Program

WATER QUALITY MONITORING PROGRAM

Onondaga Lake and Tributary Sampling Summary (October, November and December 2014):

October 2014:

- Tributary Bacteria sampling events: October 2, 13, 16, and 23
- Tributary Biweekly sampling event: October 7, and 21
- Lake Special Weekly sampling events: October 6, 9, and 20
- Lake Biweekly sampling events: October 14 and 28
- Lake Bacteria sampling event: October 30

November 2014:

- Tributary Quarterly sampling events: November 4
- Tributary High Flow sampling event: November 18
- Lake Quarterly sampling event: November 12
- Lake Biweekly sampling events: November 25

December 2014:

- Tributary Biweekly sampling events: December 2 and 16

**AMP Onondaga Lake Tributary
Bacteria Monthly Compliance Assessment¹
(August 2014 - October 2014)**

Sampling Site	August 2014	September 2014	October 2014
Harbor Brook			
Bellevue Avenue	X	√	ND
Velasko Road	X	√	
Hiawatha Boulevard	X	X	X
Onondaga Creek			
Dorwin Avenue	X	X	X
Kirkpatrick Street	X	X	X
Ley Creek at Park Street	X	X	X
Ninemile Creek at Lakeland (Route 48)	X	X	X
Bloody Brook at Onondaga Lake Parkway	X	X	X
Tributary 5a at State Fair Boulevard	X	√	√
Sawmill Creek at Onondaga Lake Recreational Trail	X	√	√

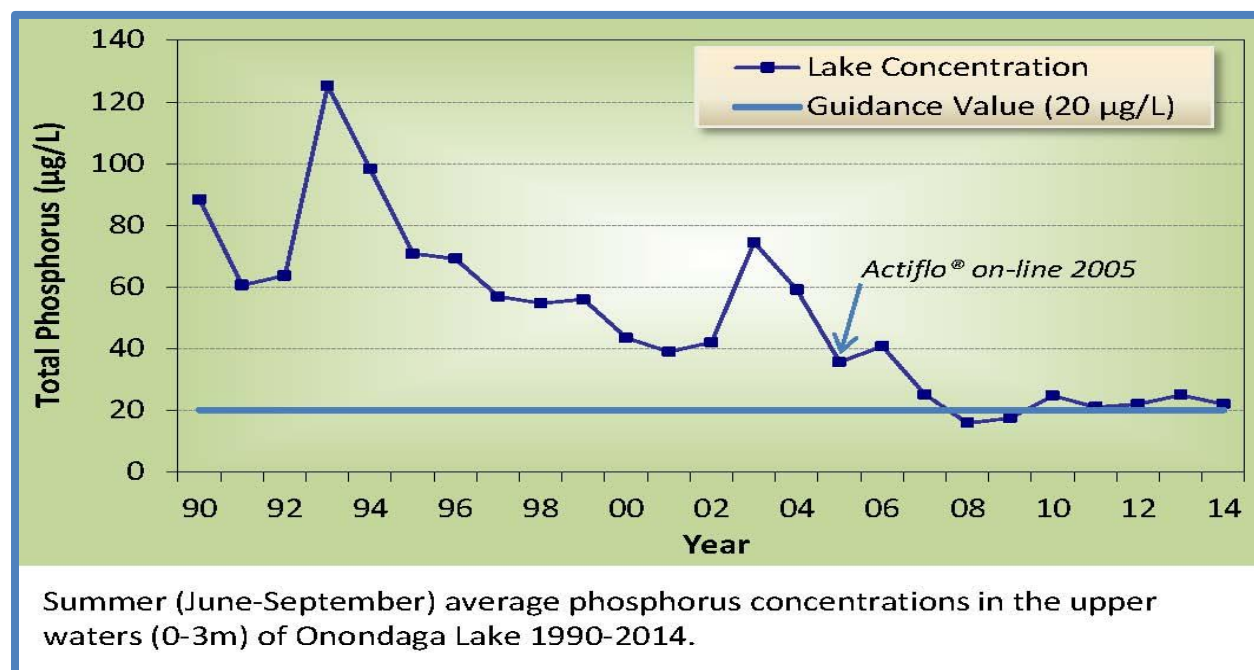
¹Compliance assessed with the applicable NYS Ambient Water Quality Standard (AWQS) for Fecal Coliform bacteria in the surface water as set forth in 6NYCRR Part 703.4 as follows:

“The monthly mean geometric mean, from a minimum of five examinations, shall not exceed 200.”

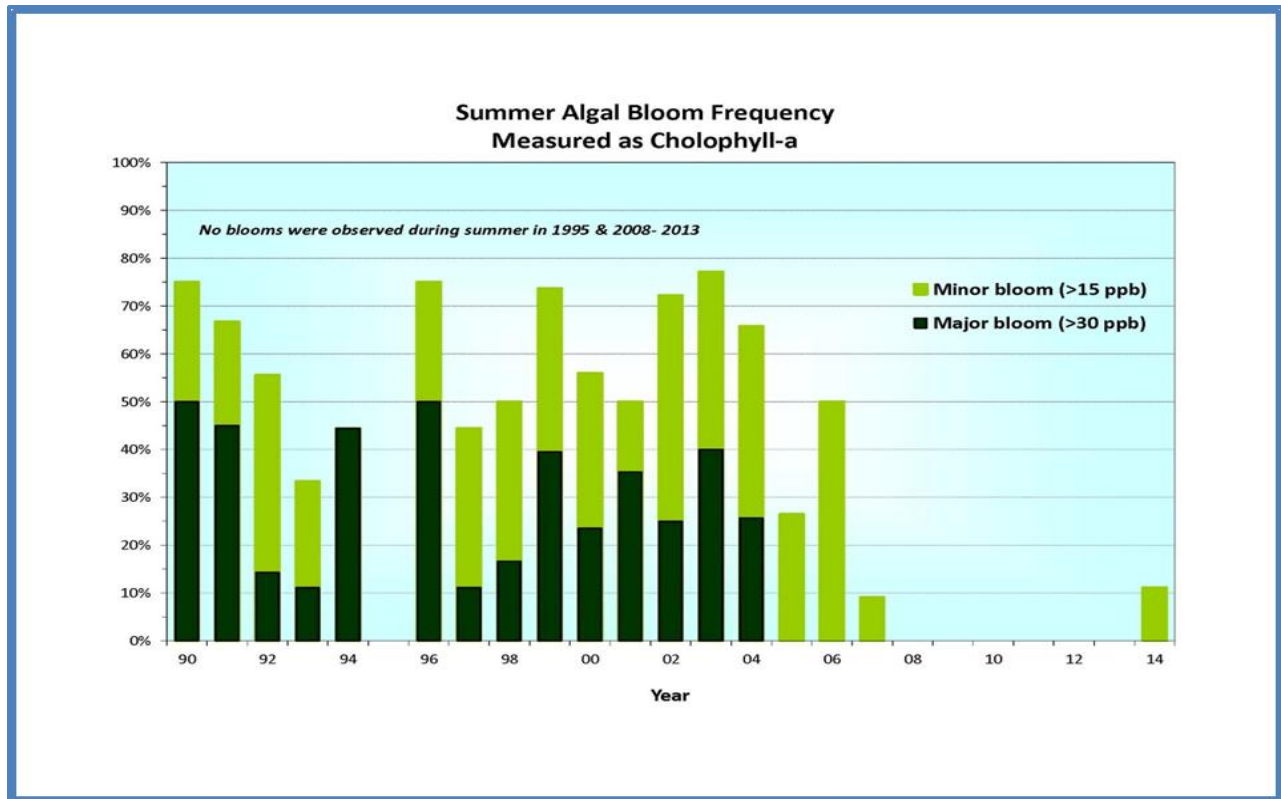
ND: Not determined; insufficient number of samples to assess compliance.

ONONDAGA LAKE WATER QUALITY, 2014

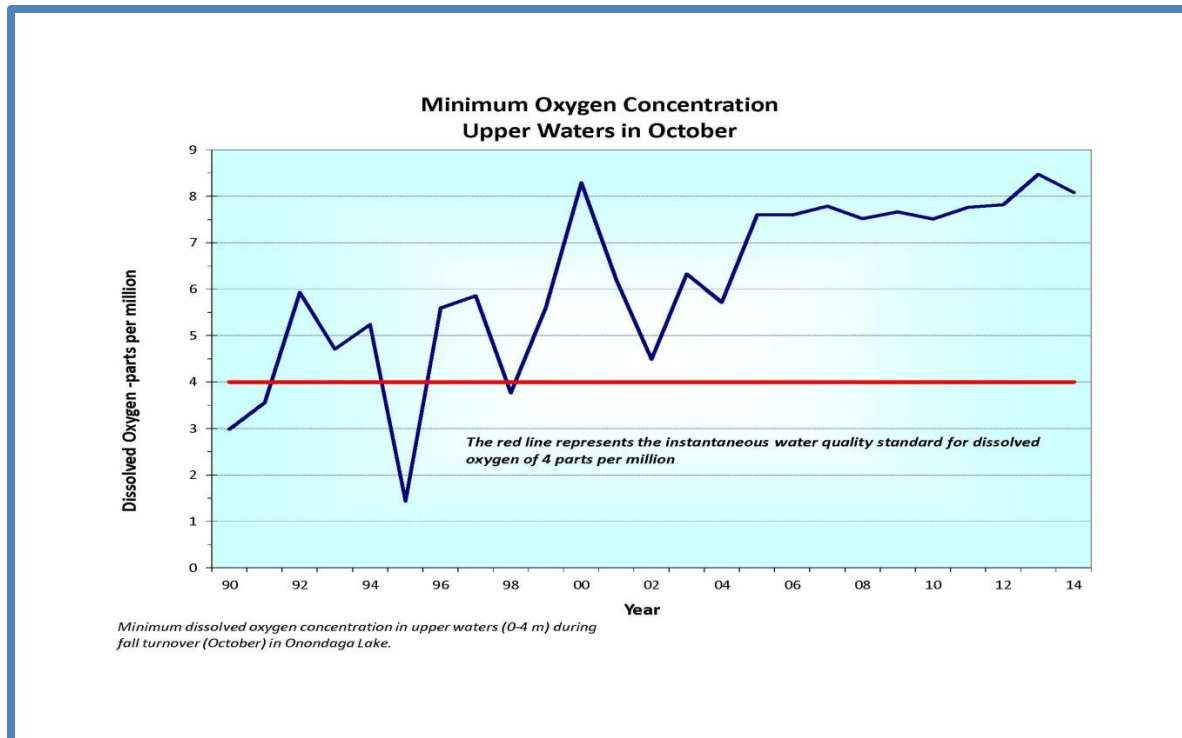
During 2014, Onondaga Lake continued to exhibit the water quality improvements first noted in 2006. Phosphorus is the limiting nutrient for algal growth in Onondaga Lake. Too much phosphorus causes excessive algae, which in turn makes the water appear green and cloudy, and contributes to low oxygen levels in the deep water. During the summer of 2014, total phosphorus concentrations in the upper waters (0-3 meters) of the lake averaged 22 micrograms per liter ($\mu\text{g/L}$). Since 2007, summer average total phosphorus has been close to 20 ppb ($\mu\text{g/L}$), which New York State has established as a guidance value for determining a lake's suitability for recreational uses. Similar total phosphorus concentrations are observed in several nearby lakes with intermediate levels of phytoplankton production.



Less phosphorus in the lake has resulted in fewer and less severe algal blooms. Occurrences of phytoplankton blooms, subjectively defined as chlorophyll-*a* concentrations of 15 $\mu\text{g/L}$ and 30 $\mu\text{g/L}$ for minor (impaired conditions) and major blooms (nuisance conditions), respectively, have decreased dramatically since implementation of Actiflo®. No algal blooms have been measured in Onondaga Lake in the past six summers (June-September), based on laboratory measurements. The NYSDEC Division of Water issued "water-bodies with blue-green algae notices" for several regional lakes during the summer of 2014. These include Cayuga Lake, Cazenovia Lake, Honeoye Lake, Oneida Lake, and Owasco Lake. Many varieties of algae are beneficial to lakes, providing the basis of the food chain that supports the entire ecosystem. Other types, like cyanobacteria (also known as blue-green algae), can produce toxins that are harmful to humans and can even cause death to animals that consume it. Large blooms, even non-toxic ones, affect ecosystem health. Algae blooms most frequently occur in nutrient-rich waters, particularly during hot, calm weather. Based on the available 2014 laboratory data, a minor bloom was observed on Onondaga Lake during the summer of 2014 (July 8, 2014).



Less algae also means clearer water and more oxygen for aquatic life. Low dissolved oxygen (DO) in the upper waters during October was one of the lake's most severe water quality impairments. DO in the upper waters has remained above the NYSDEC standard of 4 ppm since 1999, resulting in better habitat for aquatic life.



BIOLOGICAL MONITORING PROGRAM

Sampling Summary (October 2014).

- Lake sampling for zebra and quagga mussels was completed October 13.
- Completed picking zebra and quagga samples collected from Onondaga Lake October 24.
- Completed Alewife hydroacoustic survey on Onondaga Lake October 27.

Sampling Summary (November 2014)

- Began larval fish sorting and identification

Sampling Summary (December 2014)

- Continued larval fish sorting and identification
- Started entering 2014 biological data into database.

Onondaga Lake Fish Community

Changes in the fish community of Onondaga Lake have occurred as water quality and habitat conditions have improved. The significant reduction in ammonia and phosphorus input, resulting in the shift from eutrophic to mesotrophic conditions over the past several years, has expanded available fish habitat in both the littoral and pelagic zones. Fish communities are good indicators of aquatic ecosystem conditions because they integrate physical, chemical, and biological conditions and express them in terms of species composition, age and growth characteristics, and reproductive success. Since 2000, an extensive fisheries monitoring program has been included in the AMP, incorporating multiple types of

sampling gear to assess nesting, larval, juvenile, and adult stages of the fish community. Since 2000, more than 166,000 individual fish have been captured or observed from Onondaga Lake by Onondaga County's sampling efforts, representing fifty-three species

Fish species identified in Onondaga Lake, 2000–2013

Abundant Species (>1000 individuals)		Common Species (50-1000 individuals)		Uncommon Species (<50 individuals)	
Alewife	Golden Shiner	Bluntnose Minnow	Longnose Gar	Black Bullhead	Quillback
Banded Killifish	Largemouth Bass	Bowfin	Northern Pike	Black Crappie	Rainbow Smelt
Bluegill	Pumpkinseed	Channel Catfish	Rock Bass	Brook Stickleback	Rainbow Trout
Brown Bullhead	Smallmouth Bass	Emerald Shiner	Round Goby	Brown Trout	Rudd
Common Carp	White Perch	Fathead Minnow	Shorthead Redhorse	Chain Pickerel	Silver Redhorse
Gizzard Shad	White Sucker	Freshwater Drum	Tessellated Darter	Creek Chub	Spotfin Shiner
Brook Silverside	Yellow Perch	Logperch	Walleye	Goldfish	Spottail Shiner
				Greater Redhorse	Tadpole Madtom
				Green Sunfish	Tiger Muskie
				Johnny Darter	Trout Perch
				Lake Sturgeon	White Bass
				Longnose Dace	Yellow Bullhead
				Northern Hogsucker	



Typical Seine haul from Onondaga Lake in September. Species in picture include Banded Killifish, Common Carp, and Largemouth Bass.

LEGISLATIVE / REGULATORY / MEDIA UPDATE

Legislative/Regulatory Update

Action Items for the County Legislature (October – December)

- A resolution calling for a public hearing in connection with proposed improvements for the Onondaga County Sanitary District at the Baldwinsville Treatment Plant (\$3,400,000)
- A resolution calling for a public hearing in connection with proposed improvements for the Onondaga County Sanitary District for the Hiawatha Trunk Sewer Rehabilitation Project (\$4,800,000)
- A resolution calling for a public hearing in connection with proposed improvements for the Onondaga County Sanitary District at the Ley Creek Pump Station (\$5,480,000)
- A resolution calling for a public hearing in connection with proposed improvements for the Onondaga County Sanitary District related to the relocation of the Westside Pump Station (\$1,600,000)
- A resolution calling for a public hearing in connection with proposed improvements for the Bear Trap-Ley Creek Drainage District (\$500,000)

Action Items for the Environmental Protection Committee (November – January)

- A resolution approving proposed improvements for the Onondaga County Sanitary District consisting of design engineering costs for improvements at the Baldwinsville Treatment Plant in and for the County of Onondaga, New York
- A resolution authorizing the issuance of \$3,400,000 bonds to pay the cost of improvements for the Onondaga County Sanitary District, consisting of design engineering costs for improvements at the Baldwinsville Treatment Plant
- A resolution approving proposed improvements for the Onondaga County Sanitary District consisting of the Hiawatha Trunk Sewer Rehabilitation Project in and for the County of Onondaga, New York
- A resolution authorizing the issuance of \$4,500,000 bonds of the County of Onondaga, New York to pay costs of improvements for the Onondaga County Sanitary District, consisting of the Hiawatha Trunk Sewer Rehabilitation Project at a maximum estimated cost of \$4,800,000
- A resolution approving proposed improvements for the Onondaga County Sanitary District consisting of improvements to the Ley Creek Pump Station in and for the County of Onondaga, New York
- A resolution authorizing the issuance of \$4,980,000 bonds of the County of Onondaga, New York to pay costs of improvements for the Onondaga County Sanitary District, consisting of improvements to the Ley Creek Pump Station at a maximum estimated cost of \$5,480,000
- A resolution approving proposed improvements for the Onondaga County Sanitary District consisting of the design and engineering phase of the relocation of the Westside Pump Station and various conveyance improvements in and for the County of Onondaga, New York

- A resolution calling a public hearing in connection with proposed improvements for the Onondaga County Sanitary District (Westside Pump Station)
- A resolution calling a public hearing in connection with proposed improvements for the Onondaga County Sanitary District (Bear Trap-Ley Creek Drainage District)

Phase 2 of Connective Corridor Construction is on Schedule

By: Iris St. Meran Updated 10/06/2014 10:08 PM



Downtown Syracuse has been under construction for months. Crews have been working on the Connective Corridor project. The intention is to connect Downtown and the University area in addition to making a number of improvements. Iris St. Meran has more on how the project is progressing.

SYRACUSE, N.Y. -- Downtown Syracuse is seeing orange. The color has nothing to do with sports but the ongoing construction of phase two of the Connective Corridor project.

"We'll be doing the top course of paving, road striping, installing street signage. We'll begin to install some of the street trees and possibly some of the amenities, street amenities," said , Syracuse city planning assistant director Owen Kierney.

Kierney said this phase of the project is estimated at \$14-million. He said that includes all of the construction, green infrastructure and those street amenities. He acknowledged it can be a headache maneuvering around the detours and closed roads, but says in the end, it will be worth it.

"The final product is something that, again, provides aesthetic improvements, provides the increased connectivity from the Hill to Downtown, safety improvements. I think there's something in it for everybody," said Kierney.

Construction season is almost over. Crews are expected to work through the end of October. Kierney said the project is on schedule and Mother Nature helped.

"Warm, dry weather is conducive to the construction that we're doing," Kierney said, "We're on schedule. We anticipated being approximately where we are as far as completion."

Once crews are done for the season they'll pick it up again in the spring.

If you'd like to learn more about the project, visit <http://connectivecorridor.syr.edu>



United States Environmental Protection Agency

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EPA Provides Technical Assistance to Five Communities for Integrated Planning of Stormwater and Wastewater Projects

Release Date: 10/10/2014

Contact Information: Robert Daguillard, daguillard.robert@epa.gov, (202) 564-6618

WASHINGTON — The U.S. Environmental Protection Agency is providing \$335,000 in technical assistance to five communities to help them develop components of integrated plans for wastewater and stormwater management.

“EPA is committed to helping communities meet their requirements and goals for water projects that benefit public health, the environment, and the local economy,” said EPA Administrator Gina McCarthy. “Integrated planning provides the important flexibility that cities and towns need to address water challenges in an efficient and effective manner.”

Integrated planning lets communities sequence projects so they can start those with the highest priority first. EPA technical assistance will help recipients meet Clean Water Act requirements for water management in a cost-effective and environmentally beneficial way. EPA, states and municipalities have historically focused on meeting each Clean Water Act requirement separately, an approach that may have constrained communities from addressing the most serious water issues first.

In June 2012, EPA issued a framework promoting an integrated planning approach after working closely with state authorities, local governments, water utilities, and environmental groups.

In May 2014, 28 communities responded to EPA’s request for letters of interest in technical assistance. EPA made its decision after evaluating the letters’ consideration of several factors, including human health and water quality challenges, innovative approaches, community and national impacts, and commitment to integrated planning.

The selected communities are:

Burlington, Vt.: The City of Burlington proposed to evaluate its financial capability to fund an integrated stormwater and wastewater program; develop criteria for prioritizing community wastewater and stormwater needs based on social, economic and environmental factors; develop a list of example projects that rank highly based on these criteria; and evaluate innovative methods of pollutant reduction.

Durham, N.H.: The Town of Durham and the University of New Hampshire proposed to evaluate opportunities to consolidate wastewater and stormwater resources, develop a wastewater and stormwater funding strategy,

<http://yosemite.epa.gov/opa/admpress.nsf/0/aefd8fbe6e5f204985257d6d004e16ac?OpenDocument/>

and develop a toolkit for tracking pollutant load contributions and reductions from wastewater and stormwater.

Santa Maria, Calif.: The City of Santa Maria proposed to develop an asset management approach to prioritize investments, identify innovative approaches such as green infrastructure, and identify environmental and public health benefits.

Springfield, Mo.: The City of Springfield, Greene County and City Utilities of Springfield proposed to develop a decision analysis tool to prioritize investments. The tool will identify, characterize and evaluate key pollutants and sources of water pollution.

Onondaga County, N.Y.: The Onondaga County Department of Water Environment Protection proposed to outline a process to engage stakeholders and identify, evaluate, and select stormwater and wastewater projects.

These five projects will provide examples of how communities can develop integrated plans to address components of Clean Water Act permits. The projects will also provide useful information and transferable tools for other communities interested in integrated planning.

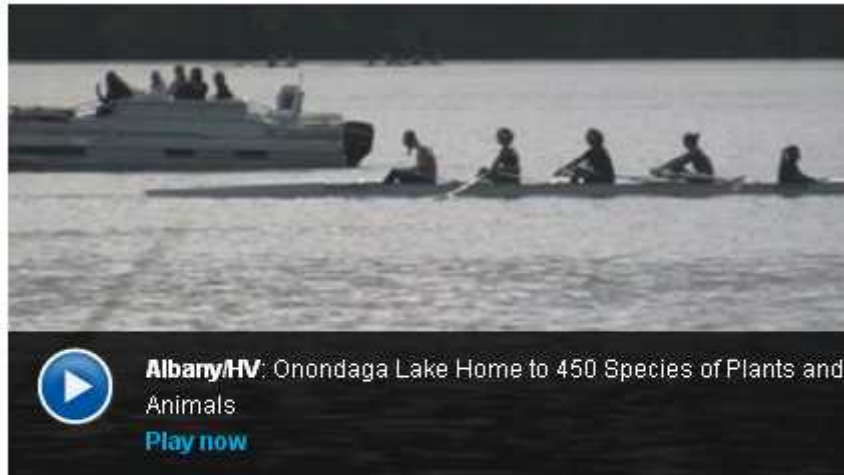
More information is available at <http://water.epa.gov/polwaste/npdes/stormwater/Integrated-Municipal-Stormwater-and-Wastewater-Plans.cfm>.



LIFESTYLES

Onondaga Lake Home to 450 Species of Plants and Animals

By: Terry Ettinger 10/13/2014 05:00 AM



Onondaga Lake was once one of the most polluted lakes in North America.

Now, as the hundreds of researchers and volunteers discovered, the cleaned-up lake is home to over 450 species of plants and animals found during a 24-hour bioblitz.

"The bioblitz is an activity where we try to get the public and scientists involved identifying the many species that are found in a particular area, in this case Onondaga Lake Park," said Elizabeth Folta from ESF Environmental Education.

"You are probably aware that there used to be fewer [fish] species in the lake. Back in 1927 there were 12, just today we've caught 25. In the summer we'll catch about 40 kinds of fish," said Neil Ringler from ESF Environmental and Forest Biology.

"I personally never get tired of all the records of bald eagles and even double-crested cormorants. People are saying there are so many cormorants but if you were alive in the '50s and '60s this species was essentially gone from the environment and they're back," said James Gibbs from ESF Conservation Biology.

The plant community in this lake has gone from five species to 23. In the last several years, the coverage of the shoreline has gone from 12 percent to 83 percent covered by plants.

A new organization is in place to make sure the improvements continue.

"The Onondaga Lake Conservation Corps will really serve a central role, more than any other entity in central New York to make sure the lake continues on the path to recovery and doesn't take any steps back," said Donald Leopold from ESF Chair Environmental and Forest Biology.

<http://albany.twcnews.com/content/lifestyles/776671/onondaga-lake-home-to-450-species-of-plants-and-animals/>



WATERTOWN/NORTH

Amphitheater Project Approved on Onondaga Lake

By: Sarah Blazonis Updated 11/03/2014 09:48 PM



Onondaga County is moving forward with the \$100 million plan for an amphitheater on Onondaga Lake. Legislators passed several resolutions Monday authorizing the plan, but not before one last round of the debate that's followed the project since the beginning. Sarah Blazonis has the details.

ONONDAGA LAKE, N.Y. -- Onondaga County is moving forward with the \$100 million plan for an amphitheater on Onondaga Lake.

"A commitment to the western side of the lake to make Onondaga Lake, our greatest natural resource in our community, the epicenter for cultural and regional economic activity," said Onondaga County Legislature Chairman Ryan McMahon.

Legislators approved several resolutions Monday to move forward with the proposed amphitheater project. They included bonding for \$49.5 million and accepting \$30 million in state funds. But the measures didn't go through unopposed.

"If you were going to build a shed in your backyard, you'd have more public hearings than what we had here for this process," Legislator Kevin Holmquist said before the vote.

Holmquist said the process was rushed, and until recently, few details were available.

<http://watertown.twcnews.com/content/news/782491/amphitheater-project-approved-on-onondaga-lake/>

The county will also use money available through an agreement with the state that mandates payment to local governments from casinos. That will end up being about \$2.5 million a year for 30 years. That money was one of the issues some legislators had with the project. They said they would've preferred to see it go towards more long-term economic development efforts.

"That money's going to be there 30 years from now, 40 years from now, 50 years from now. We can take that money and invest it year in, year out in various economic development projects," said Legislator Casey Jordan.

Those in favor of the plan reminded colleagues about debate over other projects, including Destiny USA.

"They took on a significant amount of risk. They were under a tremendous amount of public scrutiny related to that vote," said Legislator Patrick Kilmartin. "Yet today, now, sales tax from the Destiny USA project is one of the drivers for our community."

Supporters said the project might not be a perfect plan, but it's one more step toward boosting the local economy.

Next up for the project, officials will take a look at bids that have come in and select the firms that are going to handle construction. Bids are also expected to go out for infrastructure work in surrounding communities related to the plan.



CNY

More Than 90 Trees Planted as Part of the 'Save the Rain' Program

By: TWC News Staff 11/08/2014 12:28 PM



SYRACUSE, N.Y. -- More than 90 trees were planted as part of Onondaga County's 'Save the Rain' program.

Legislator Danny Liedka was joined by Syracuse residents Saturday morning to put the trees in the ground.

The goal is to reduce storm water pollution, improve the shade, and beautify the area.

"We like to restore landscapes to their historic significance. At once this was a full and active cemetery and at that time these trees were there and gradually you lose one every year and we've never had a formal process to replace them or never really the opportunity to until Onondaga County Save the Rain Program came along," said Stephan Harris, an Onondaga County arborist.

Volunteers have been joining together to plant trees since 2002.

<http://centralny.twcnews.com/content/news/783762/more-than-90-trees-planted-as-part-of-the--save-the-rain--program/>



With "Save the Rain," Onondaga County Is a National Model for Sustainable Stormwater Management

BY Staff

November 13, 2014 [sustainability](#) [water infrastructure](#)



Onondaga County, NY's comprehensive stormwater management plan includes features such as permeable pavements, including additional trees and permeable paved bike paths.

Shortly after her election in 2007, Onondaga County Executive Joanie Mahoney proposed a bold solution to address the county's CSO issues: Rather than building more sewage treatment plants to meet the terms of a consent decree, Mahoney put a temporary hold on construction projects to determine the feasibility of incorporating the use of green infrastructure in combination with smart gray infrastructure. Today, the Central New York community has become a national model for the use of environmentally sustainable solutions to reduce CSO pollution, and Mahoney is recognized as a pioneer in the field. Addressing attendees at ASCE's

International Conference on Sustainable Infrastructure, held Nov. 6-8 in Long Beach, CA, Mahoney described the benefits and results of the county's Save the Rain program, a comprehensive stormwater management plan. Using a combination of natural and engineered systems to capture rainwater where it lands, the program has reduced the amount of stormwater that flows to storm drains, thereby reducing CSOs and improving the water quality of Onondaga Lake and its tributaries.



Features of the system include rain gardens, green roofs, bioswales, permeable pavement, rain barrels, and cisterns. Not only do these green systems improve water quality, but they enhance the aesthetic value of local streetscapes. Many streets which were lined by concrete sidewalks are now lined with street trees and other plantings that capture the rain and add value to the pedestrian's experience walking or biking along the street. One of the most welcome side benefits of the program, Mahoney says, was acceptance by community stakeholders. Instead of encountering community opposition as is frequently the case with traditional treatment plants — the Not In My Backyard response — community residents clamored to bring these sustainable solutions to their neighborhoods. "I don't think you'll find very many examples of government infrastructure that people are begging to have happen on their streets," Mahoney says. See an Onondaga County video on its Save the Rain program.

Mahoney: First Onondaga Lake amphitheater concert will be August 2015

By [Michelle Breidenbach | mbreidenbach@syracuse.com](#)

on November 20, 2014 at 11:03 AM, updated November 20, 2014 at 11:36 AM



SYRACUSE, N.Y. - The first concert at Onondaga County's new amphitheater is being planned for August 2015, Onondaga County Executive Joanie Mahoney said this morning.

"It is an aggressive schedule," she acknowledged at a breakfast meeting of the Thursday Morning Roundtable.

Mahoney said the county is negotiating a contract with a vendor that has built venues before under deadline pressure.

She did not name the vendor.

http://www.syracuse.com/news/index.ssf/2014/11/mahoney_first_onondaga_lake_amphitheater_concert_will_be_august_2015.html

"That vendor, if we're successful, has had experience meeting these kinds of timelines and I feel very confident that we're going to be able to do that," she said.

Mahoney and Gov. Andrew Cuomo announced earlier this year that the state and county would partner on a \$100 million project to build an amphitheater along the western shore of Onondaga Lake and to make improvements to the nearby village of Solvay and town of Geddes.

The Onondaga County Legislature earlier this month [voted to approve the sale of \\$49.5 million in bonds](#) for the project. The state budget included a \$30 million grant.

In her talk Thursday morning, Mahoney answered critics of both the cost and the environmental cleanup of the site.

She said the amphitheater will generate sales tax and hotel occupancy revenue and can break even in operations.

"Which I would argue shouldn't have even been a hurdle we needed to get over," Mahoney said. "When I built the bike trail on the west shore of the lake, no one said well, 'Where's the revenue being generated? How's that breaking even?' It's a quality of life issue. It's a park and we don't ask those questions about our other parks."

About the cleanup, she said it is safe to build the amphitheater on top of the [waste beds left behind by the Solvay Process Co.](#) If the waste is removed, as the Onondaga Nation and others have requested, it will have to go somewhere else. She said that would be an expensive and lengthy process.

"My perspective as county executive and a broader view is, where do you want me to put it?" she said. "Can you imagine the community-wide discussion about where we're going to put the landfill after we move it?"

She said the site will be safe.

"It will be clean soil. It will be capped. What's underneath it is not toxic. It's in the category of baking soda," she said.

A recording of the [Thursday Morning Roundtable](#) can be heard on the radio at 8 p.m. Sunday on WCNY-FM 91.3.

Nature in the City: Teaching urban kids to recognize, appreciate Mother Nature



Student at H. W. Smith Elementary School, in Syracuse, New York, Abezer Berhane, looking for birds during Nature in the City-Discovering Urban Birds program from Baltimore Woods. Dick Blume | dblume@syracuse.com

By [David Figura](#) | dfigura@syracuse.com

on November 22, 2014 at 7:30 AM, updated November 24, 2014 at 6:17 PM

Syracuse, N.Y. - Environmental educator Emily Lawson gingerly held Geronimo, an Eastern box turtle, in her hands.

"Is this alive, my friends?" she asked the students fanned around her on the rug in kindergarten teacher Melinda Januszka's class at Salem Hyde Elementary School.

"Does it need food, breath air, drink water, grow? Does it make babies?" she added, letting each of the students touch the turtle before putting it on the rug to crawl around.

That same morning, over at H.W. Smith Elementary school, environmental educator Julie Fishman had pictures of various local birds on sticks and was asking the students in Wayne Gillespie's second-grade class if they could identify them.

"What's this bird?" she said.

One little girl, sitting at her desk, squirmed with enthusiasm as she held her hand high. "A robin!" she said after Fishman called on her.

Both classes were part of the "Nature in the City" program, currently being offered by the Baltimore Woods Nature Center staff in all 19 of the Syracuse City School District's elementary schools to more than 10,000 students. That recent day, students from both classes went outside to check out things they learned in class on the school grounds.

The program, celebrating its 12th year, has resulted in a noticeable rise in the district's standardized test scores in science - a fact that prompted district officials to request it for all of its schools as of last year.

"It's in line with the mission of Baltimore Woods, it's a service to the school district - and everyone is enjoying it. And most importantly, it works," said Mary Kate Intaglietta, executive director of Baltimore Woods, which is located in Marcellus.

The program is partnership between public, private and non-for-profit sectors of the community. It started during the 2002-2003 school year, the brainchild of Patty Weisse, who was then the executive director of Baltimore Woods. It was initially a pilot program with one environmental educator at Roberts Elementary School, thanks to a



Environmental educator Julie Fishman, from Baltimore Woods, holds up robin display during Baltimore Wood's Nature in the City- "Discovering Urban Birds" program at H.W. Smith School.

Dick Blume | dblume@syracuse.com



Students with teacher Wayne Gillespie, on the right, at H. W. Smith Elementary School look for birds on the school grounds.

Dick Blume | dblume@syracuse.com

\$30,000 Gifford Foundation grant.

"It's been remarkable," said Weisse, who retired in 2013. "Rather than busing the kids over to Baltimore Woods each time, the program has taken advantage of the tons of high quality, green space within the city - either on campus, or nearby.

"It's designed to teach science in a way that pulls them in. And once you establish a love for science in a child at an early age, they have so many more choices for their lives."

Currently, the program's budget is covered by the school district (\$125,000), along with corporate sponsors and individual donors (\$90,000). Baltimore Woods supplies the educators and all the supplies needed for instruction.



**"Is this alive, my friends?"
she asked the students
fanned around her on the
rug.**

Januszka, the kindergarden teacher, was full of praise for the educators from "The Woods."

"They have new energy and bring excitement to teaching science," Januszka said. "The kids get tired of hearing me talk all day. Their educators

are friendly, knowledgeable and have good management of the class."

Each participating classroom in the program receives a series of three, hour-long "hands-on/minds" nature science lessons throughout the year with a common learning objective and theme, depending on the grade level. Topics include such subjects as: "It's Alive (or is it?)," "Maple Magic," "Discover Urban Birds," "Snow Stories - Tracking," "Under Pressure (identifying rocks)" "Falcon Food," and "Save the Rain (covering such topics as watersheds and pollution)."

The nature center environmental educators (there's seven) work closely with the district and its teachers to tailor their instruction to augment and reinforce the district's elementary science core curriculum. The educators' time consists of classroom instruction, bolstered by walking field trips to nearby parks and green - or to green areas on the school grounds where the students can observe nature first-hand.

The program has two levels of testing. First, at each grade level, the Baltimore Woods staff has pre- and post-testing to get a handle on how much of their instruction is sticking. Last year, for example, fifth grade students from six schools were assessed. At the beginning of the year, the average combined score on the pre-test was 59 percent - a figure that rose to 75 percent at the end of the year.

In addition, the school district has seen noticeable jumps across the board on the testing it gives - specifically, the state-mandated Grade 4 natural science assessment. It became clear two years that those 11 schools who participated in the Nature in the City program were consistently scoring better than those eight schools where it was not.

"What Baltimore Woods offers is very much in alignment with our curriculum. It allows us to go deeper with our students, giving them hands on field experience," said Paula Shannon, chief academic officer for the Syracuse City School District.

"Superintendent (Sharon) Contreras is very committed to the program, making sure that all of our students have access to this great work."

Intaglietta said test scores are one thing, what each individual student walks away with and applies outside of class is equally important.

"The students learn to recognize and respect the nature found in their own backyards and neighborhoods," she said.

CORPORATE SPONSORS/PRIVATE DONORS:

Local private sponsors of "Nature in the City" for the 2014-15 school year include: Carrier, Lockheed Martin, National Grid, SRC, Key Bank, Byrne Dairy, O'Brien and Gere, The Jim and Juli Boeheim Foundation, Colonial Laundromat, Maxiam+Horst, Dominion, Upstate Medical Center, Excellus BlueCross BlueShield, Price Chopper's Golub Foundation and Time Warner's "Connect a Millions Minds" program, Walmart and AXA Advisors. In addition, there's funding from Onondaga County's "Save the Rain" program, along with individual donors who contribute but chose to remain anonymous.

For more information, on being a sponsor, call Baltimore Woods executive director Mary Kate Intaglietta at 673-1350, or check out the Baltimore Woods website at baltimorewoods.org.



Dick Blume Students at H. W. Smith Elementary School, in Syracuse, New York, looking for birds by the school with binoculars supplied by Baltimore Wood's Nature in the City program.

Dick Blume | dblume@syracuse.com



It's time to get excited about Onondaga Lake

By Derek Shepard

[First Posted: Tuesday, November 25, 2014 -6 a.m.](#)

On Nov. 3, Honeywell announced that they have completed the court ordered dredging and removal of 2.2 million cubic yards of contaminated material on the western shore of Onondaga Lake, a year ahead of schedule.

For those of us who commute past the lake cleanup site every day, the remarkable progress has been obvious for some time because the awful smell that used to emanate from the water is almost completely gone. Lab reports provide objective evidence that the lake has made a dramatic and accelerated comeback putting Central New York on the verge of a new era of lakefront recreation and enjoyment.

Despite this great news, the stigma of Onondaga Lake's long reputation leaves some residents skeptical about investing in its future. From my position on the county legislature though, I get to preview a variety of exciting opportunities to return Onondaga Lake to its former glory and the Lakeview Amphitheater project is the cornerstone of a coming revitalization.

I believe in this project's potential because I've seen a similar transformation before. Growing up in the village of Baldwinsville, I traveled between its once rusty old bridges and past the collapsed and polluted island site of a former paper mill. The National Cellulose Corporation was damaged by a series of fires in 1938, and for the rest of the century, Baldwinsville residents endured this eyesore, reminded that the village's glory days were probably long since behind it. Today, however, Paper Mill Island is the crown jewel of Baldwinsville's renaissance.

During the summer, village residents and visitors from across Central New York stream in to see shows, attend festivals, and even to watch movies at the island's amphitheater. Soon after the island was developed, private interests turned the old grain mill into an iconic riverside hotel. Business owners along Oswego and Genesee streets invested in restored facades, one after another, and new businesses began to flourish.

The village now has a network of sharp new sidewalks leading to popular shops, restaurants and pubs, and the canal is alive with boat traffic during the warm-weather months. The economic benefit of these investments is obvious, and the improvement in the quality of village life is both immeasurable and ever increasing.

All of this began with the spark created at Paper Mill Island and it has worked this magic despite our harsh winters and intense competition from the commercial strip near Great Northern Mall. Clearly,

the Lakeview Amphitheater will face both of these challenges, but I believe its aging and less accessible competitors have much more to worry about.

An obvious concern I had in voting to approve this project was its source of construction funding.

The cost to build the amphitheater represents about half of a broader \$100 million total investment in west shore revitalization, which includes a \$15 million pump station and sewer reconfiguration which will increase development potential in Van Buren.

These projects are being funded by a \$30 million investment from New York state and a construction bond that will be paid back with a new stream of revenue from the Turning Stone Casino, not local property tax dollars. Both of these funding sources are strictly limited for use on economic development projects, so while there are certainly compelling arguments for investing in alternative economic development ideas, these funds could not simply be used to offset general operating expenses, and there is good reason to think big and believe in this one.

With the potential to bring not hundreds of visitors like Paper Mill Island, but hundreds of thousands, I am excited about what the future holds for the western shores of Onondaga Lake and the Lakeview Amphitheater. Onondaga County has the opportunity to define itself, once again, as a vibrant, lakefront community with a lot to offer visitors and residents alike.

Derek Shepard represents the 13th legislative district; this includes the town of Van Buren, the town of Elbridge and portions of the town of Camillus. Derek welcomes constituent feedback; he can be reached by email at shepard@twcny.rr.com or by phone at 635-3875.

The importance of urban tree cover

By RYAN DELANEY • NOV 27, 2014

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With leaves on the ground and snow falling, trees in upstate New York are becoming dormant for the winter, but urban tree cover is still important.

As many urban areas become more populated or new buildings are constructed, urban trees are often chopped down. Most cities in the country are losing tree cover. And it has consequences.

"Trees are not just decorative. They're infrastructure. And hence, they're important for that reason," said Emanuel Carter, a professor at the SUNY College of Environmental Science and Forestry.

Trees clean the air, keep cities cool and stop soil erosion and runoff. They also [help property values](#). Surveys of urban forestry in cities like Washington, D.C., [finds more trees](#) are located in wealthier neighborhoods. Trees both add to property value and home owners in wealthier neighborhoods tend to care for trees better.



"That's often not the case when you're looking at people who are in rental housing," said Carter. "And especially if you look at people who are in rental housing and are at the bottom of the economy."

It's a tough life to be an urban tree. If it's not construction, road salt, smog and vandalism call spell a tree's demise. Many Syracuse neighborhoods lost trees from the middle of the century through the 1990s, according to Carter.

Syracuse is still recovering from the Labor Day storm of 1998, which toppled thousands of trees. The city has gained back some trees since then, but much of it has been [an invasive tree](#), the European buckthorn.

Carter is leading a program next year to plant 160 trees in the Southwest neighborhood of Syracuse. It's not a lot, but the hope is his team will be able to work with homeowners to plant more vegetation and care for the trees.

"It's an easy investment to make and a worthy investment to make, so let's get the low-hanging fruit and do what we can in the short term, while we are working on the longer term goals," he said.

Projects like Onondaga County's [Save The Rain](#) are also working to plant more hardy trees.

Syracuse's population has declined in recent decades. Carter says now empty properties offer an opportunity to increase urban forestry in a smart way.

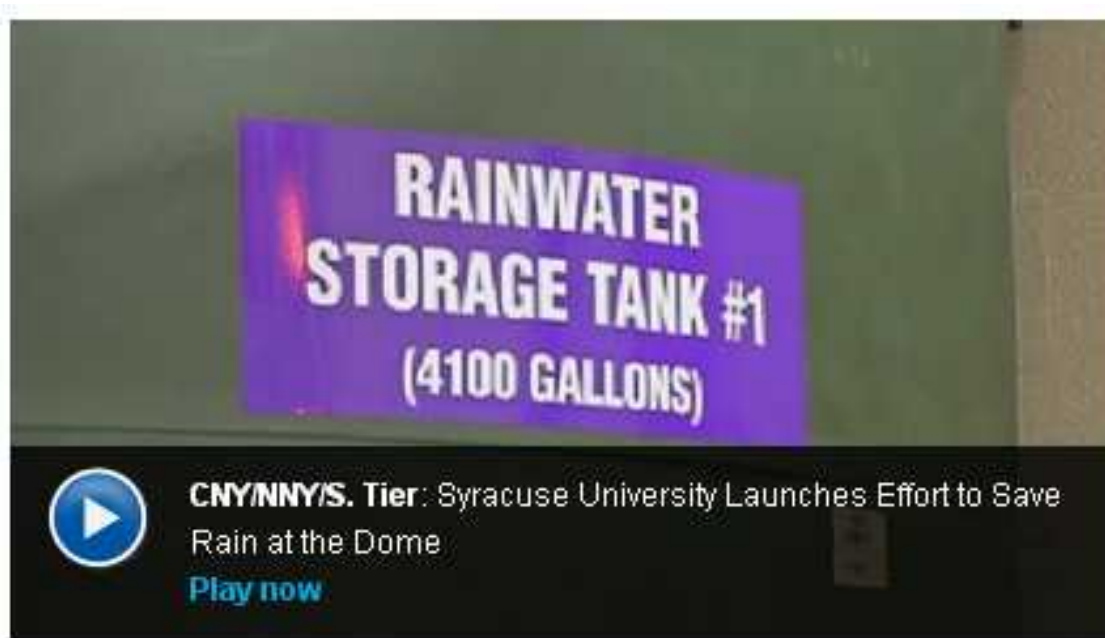
RELATED PROGRAM: MORNING EDITION



CNY

Syracuse University Launches Effort to Save Rain at the Dome

By: Bill Carey 12/15/2014 05:12 PM



It will save Syracuse University some money on its water bill, but a new project at Syracuse University's Carrier Dome also promises to save taxpayers money, and help preserve the environment. As Bill Carey reports, it all has to do with what falls on the roof at the Carrier Dome.

SYRACUSE, N.Y. -- One thing is certain in Syracuse- in the winter, there will be snow. In the spring and summer, rain. For the most part, those millions of gallons of water end up feeding the city's storm system, overloading it causing some flooding and allowing some pollution to reach Onondaga Lake.

"It is expandable, such that, at a later date, we can add the other half of the restrooms," said senior project manager John Osinski.

Syracuse University officials have now joined the effort by large building operators to save that water. Water that collects on the roof of the Carrier Dome will now be rerouted to help power half of the building's restrooms. The system, now in place, kicks into gear when water begins to flow from the roof.

"At which point it gets sent up here, and it will go through the first treatment skid, which runs the water through an

<http://centralny.twcnews.com/content/news/793041/syracuse-university-launches-effort-to-save-rain-at-the-dome/>

ultraviolet light which kills the biologicals, as well as paper filters. It then goes into two day tanks behind me, which hold a total of 8,000 gallons. As the water goes into the day tanks, the water also has chlorine added to it," said Osinski.

The cost of this project was just over \$1.3 million. The cost picked up by the state's Environmental Facilities Corporation, run by former Syracuse Mayor Matt Driscoll.

"This project here will remove about 900,000 gallons annually. Use it to help reduce costs in the bathrooms and then that water will go directly to Metro. So it takes it out of the system," said Driscoll.

Driscoll argues that the system not only saves the environment, but also saves money for the people running large buildings, like the Dome. With water flowing from the roof they'll no longer have to buy thousands and thousands of gallons of water.

Onondaga County chooses Gilbane firm to build amphitheater; work to begin soon

By [Tim Knauss](#) | tknauss@syracuse.com

on December 17, 2014 at 5:30 PM, updated December 18, 2014 at 2:41 PM



A schematic of a proposed Onondaga County amphitheater to be built atop wastebeds along Onondaga Lake's western shore. County officials are negotiating a contract with Gilbane Building Co. to be general contractor. (Michelle Breidenbach)

SYRACUSE, N.Y. - Onondaga County has selected a general contractor, Gilbane Building Co., to construct a concert amphitheater on the west shore of Onondaga Lake.

County officials are still negotiating a contract with Gilbane, so the final cost of the project is uncertain, said Martin Skahen, the county executive's chief of staff. The county Legislature approved \$49.5 million in bonding to pay for the project.

Ryan McMahon, chairman of the county Legislature, said he has been assured by County Executive Joanie Mahoney that Gilbane's price for the amphitheater will not exceed the bonding amount.

"Work will begin immediately once a contract is in place," Skahen said. Mahoney has said the county plans to host a concert at the new facility by August 2015.

On Thursday, county officials will begin recruiting minority- and women-owned businesses to participate in the construction. Some 20 percent of the work must be performed by such businesses, according to county purchasing officials.

The county will host an informational meeting from 5:30 to 8:30 p.m. Thursday at the OnCenter convention center, 800 S. State St., for minority and women contractors who provide site work, trucking, laborers, steel work, mechanical electrical and plumbing.

A second meeting, tentatively scheduled for Jan. 7, will be held primarily for architectural trades such as carpentry and roofing.

Skahen declined to say who else submitted proposals besides Gilbane until after the contract is signed.

Mahoney and Gov. Andrew Cuomo last January announced plans for the county amphitheater as part of a \$100 million plan to make improvements to the lake shore and to the nearby village of Solvay and town of Geddes. The state will contribute \$30 million toward the overall project.

Gilbane Building Co., based in Providence, R.I., has a Syracuse operation because it was selected in 2007 as the program manager overseeing school renovations undertaken by the city's Joint Schools Construction Board.

Onondaga Lake cleanup makes big strides in 2014

By ELLEN ABBOTT • DEC 26, 2014

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Dredging on Onondaga Lake (file photo)

ELLEN ABBOTT WRVO



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1:22

This was a milestone year in the ongoing cleanup of Onondaga Lake. The Honeywell Corporation finished up the dredging portion of the cleanup this fall, removing 2.2 million cubic yards of toxic sludge from the bottom of the lake a year ahead of schedule.

<http://wrvo.org/post/onondaga-lake-cleanup-makes-big-strides-2014/>

The dredging has probably been the most visible part of the company's \$451 million lake clean up plan.

Syracuse University engineering professor Charlie Driscoll says the community is close to the end of a massive cleanup effort of a waterway that, for years, was a dumping ground for industry.

"The technologies that have been used, the groups of people that have come together, that have dealt with three simultaneous problems that have caused the degradation of the lake," Driscoll said. "The technology and innovation is nothing short of remarkable."

Driscoll says the result is a massive transformation.

"This lake is now very clean," Driscoll said. "It meets all water standards except for fish mercury, and that is moving close to a good condition as well."

Onondaga Lake was once called the most polluted lake in the nation after years of industrial waste led to the waterway's degradation.

"Many restoration projects do not really fill the goals they set out," Driscoll explained. "Where here, the goals are pretty much all met."

RELATED PROGRAM: MORNING EDITION

Mahoney says amphitheater will bring tax dollars to Onondaga County for years to come

By ELLEN ABBOTT • DEC 30, 2014

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Artist rendering for the amphitheater along Onondaga Lake.

ONONDAGA COUNTY



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2:19

It's been a busy year for economic development for Central New York. And one of the highest profile projects that will be completed in 2015 is the \$100 million amphitheater and Solvay revitalization project. This kind of economic development reflects a new reality when it comes to paying for government.

<http://wrvo.org/post/mahoney-says-amphitheater-will-bring-tax-dollars-onondaga-county-years-come/>

It used to be that property taxes were the linchpin of Onondaga County's budget. But that's changed according to County Executive Joanie Mahoney.

"The property tax levy in 2010 was \$184 million. It is today \$140 million. We've reduced the property tax levy in Onondaga County by 24 percent in the last five years."

What's taking its place? Sales tax revenue. Two-thirds of the county budget is now funded through sales tax. And that's where the connection between government and economic development comes in.

"We fund our government to a much bigger extent today than five years go with sales tax. And you have to invest in projects that are going to generate that," said Mahoney.

And that's one reason Mahoney is so gung-ho on the amphitheater project.

Experts hired by the county say the 17,500-seat outdoor concert venue on the western shore of Onondaga Lake could bring in up to \$22 million a year by 2019.

Mahoney says naysayers should look no further than the big mall on Onondaga Lake as proof of the impact of sales tax.

"People love to hate Destiny [USA]. But if you could see the amount of revenue in the city budget and the county budget because of the money people spend in Destiny USA, then you might have a have a different opinion of it. Because that's how we're paving our roads and fixing our water pipes."

And that is why Mahoney was so eager to use a new revenue stream from the Oneida Nation to pay for the amphitheater project. A state agreement to share gaming revenue from the Nation will bring an average of \$2.5 million to Onondaga County a year. Mahoney says it just doesn't make sense to take that money and lower taxes.

"Do you take that money from the Indian casino and reduce everybody in the county's taxes by ten dollars, which is what you could do with that money? Or, do you invest it in something that is going to generate revenue for years to come?" asked Mahoney.

The county executive says it dovetails as well with her vision of a central New York that is more hip; a place that young people don't flee right after graduating from high school or college.

<http://wrvo.org/post/mahoney-says-amphitheater-will-bring-tax-dollars-onondaga-county-years-come/>

"It's a perfect storm for us to make this a kind of community that young people choose to live in. Because the things the young people want to do, like this amphitheater are going to generate the sales tax that are going to pave our roads and fix our water pipes."

Mahoney says negotiations are ongoing with a potential operator for the amphitheater, as well as for a big act to christen the facility.

"We're still aiming for an August 24 ability to have a first concert there -- whether it will be that day or sometime during the state fair," she said. "I am in conversations with the state fair about coordinating so we can have a big concert to kick off this amphitheater in the fall."

She says they want to find an act that will appeal to all generations.

RELATED PROGRAM: MORNING EDITION

FINANCIAL UPDATE

Financial Update

Contracts

New Contracts

Green Project Design – Master Services Agreement

- Contract with Environmental Design & Research (EDR) for design of green parks and vacant lots

Contract Amount: TBD

Executed: 11/17/14

Green Project Design – Master Services Agreement

- Contract with Maxian & Horst for design of vacant lots

Contract Amount: TBD

Executed: 11/17/14

Green Project Design – Master Services Agreement

- Contract with Barton & Loguidice for design of green streets

Contract Amount: TBD

Executed: 11/17/14

Green Project Design – Master Services Agreement

- Contract with O'Brien & Gere for design of green parks and green streets.

Contract Amount: TBD

Executed: 12/8/14

Burnet Ave. Garage Demolition

- Contract with Strategic Environmental, LLC for engineering and construction phase services of Burnet Ave. Storage Garage.

Contract Amount: \$67,077

Executed: 12/15/14

Amendments to Existing Contracts

Green Improvement Fund

- Contract with 300 Block, LLC amended to include reimbursement of additional green improvements in the Clinton sewershed

Amendment Amount: \$2,500

Executed: 10/20/14

Legal Services

- Contract with Melvin & Melvin amended for ongoing consultation relating to construction contract claims

Amendment Amount: \$100,000

Executed: 10/20/14

Green Improvement Fund

- Contract with Bethany Baptist Church amended to include reimbursement of additional green improvements in the Clinton Sewershed

Amendment Amount: \$65,838

Executed: 12/29/14

Lower Harbor Brook Storage Facility

- Contract with Environmental Engineering Associates, LLP amended to include additional construction administration

Amendment Amount: \$45,000

Executed: 10/16/14

Change Orders

Clinton CSO Storage Facility

- Contract with Jett Industries amended for additional tunnel improvements and switchgear repair

Change Order Amount: \$147,530.04

Executed: 12/29/14

Funding

Grants

State Bond Act Funds

- Reimbursements **requested:** None
- Reimbursements **received:** None

Federal EPA Funds

- Reimbursements **requested:** None
- Reimbursements **received:** None

Federal Army Corps of Engineers Funds

- Reimbursements **requested:** None
- Reimbursements **received:** None

GI GP Grant

- **Requested:** None
- **Received:** None

EFC Loans

- Reimbursements **requested**:
LT Sewer Sep 022/045 for \$658,508.34 on 10/13/14
LT Midland for \$753,765.35 on 10/13/14
LT HB for \$421,367.15 on 10/13/14
LT Clinton for \$799,116.21 on 10/13/14
LT HB for \$132,244.60
LT Clinton for \$1,360,101.14
- Reimbursements **received**:
LT Clinton (includes green) \$212,768.60 on 10/6/14
LT HB (includes green) \$5,365,713.64 on 10/6/14
LT Midland (green) \$12,631.70 on 10/6/14
LT Sewer Sep 022/045 \$658,508.34 on 11/10/14
LT Midland \$753,764.35 on 11/10/14
LT Clinton \$799,116.21 on 11/20/14
LT HB \$421,367.15 on 11/20/14
LT HB \$132,244.60 on 12/5/14
LT Clinton \$1,360,101.14 on 12/5/14

Total reimbursement monies received to date through EFC loans for the funded ACJ projects:
\$247,603,598 (short term) and \$100,059,736 (long term).

Onondaga County Lake Improvement Project

4th Stipulation of the ACJ

Clinton/Lower MIS CSO Improvements

Summary of Current and County Authorizations

<u>Project/Task/Line Item</u>	Total Project Costs		
	Total Proposed Budget	Expended To Date	Authorization Remaining
<u>Clinton Street CSO Facility Planning (Original)</u>			
Engineering Services (EEA)	\$ 751,266	\$ 751,266	\$ (0)
Original Facility Plan Subtotal	\$ 751,266	\$ 751,266	\$ (0)
<u>Clinton Street CSO Conveyances Project</u>			
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)
Engineering/Construction Services (CDM/C&S)	\$ 2,738,000	\$ 2,738,000	\$ 0
Conveyances Subtotal	\$ 21,290,508	\$ 21,290,508	\$ (0)
<u>Clinton Storage Project ⁽¹⁾</u>			
Construction Estimate	\$ 77,742,858	\$ 71,601,151	\$ 6,141,707
Engineering Services (EEA and others)	\$ 12,122,013	\$ 11,606,886	\$ 515,127
Construction Management and Administration (CDM/C&S)	\$ 4,833,411	\$ 4,214,528	\$ 618,883
Construction Testing (CME)	\$ 327,847	\$ 276,910	\$ 50,937
CSO Storage Subtotal	\$ 95,026,129	\$ 87,699,474	\$ 7,326,655
<u>Facility Plan for CSOs 027 & 029</u>			
Construction Estimate	\$ 3,100,000		\$ 3,100,000
Engineering Services (Ch2MHill)	\$ 91,211	\$ 91,186	\$ 25
Engineering Services (TBD) Floatables Arcadis	\$ 782,032	\$ 12,605	\$ 769,427
County Administration and Other Costs	\$ -		\$ -
Facility Plan Subtotal	\$ 3,973,243	\$ 103,790	\$ 3,869,453
<u>Clinton/Lower MIS Green Implementation Program</u>			
Construction Contracts incl. GIF Public/Private	\$ 38,508,611	\$ 26,116,280	\$ 12,392,331
Ch2MHill Program Management & Engineering	\$ 15,900,000	\$ 11,019,493	\$ 4,880,507
Green Subtotal	\$ 54,408,611	\$ 37,135,773	\$ 17,272,838
<u>Program Management</u>			
Project Management (CDM/C&S)			\$ -
Project Management for Facility Plan (CDM/C&S) ⁽²⁾	\$ -		\$ -
Program Management Subtotal	\$ -	\$ -	\$ -
<u>Miscellaneous County Costs</u>			
Land Acquisition	\$ 3,726,350	\$ 3,726,350	\$ -
IMA	\$ 4,861,000	\$ 3,959,746	\$ 901,254
Legal	\$ 126,115	\$ 207,768	\$ (81,653)
Consulting (John Clare & Mezey)	\$ 301,334	\$ 226,334	\$ 75,000
Debt	\$ 234,885	\$ 803,593	\$ (568,708)
Other	\$ 310,738	\$ 359,985	\$ (49,247)
Contingency	\$ 489,863		\$ 489,863
Miscellaneous Subtotal	\$ 10,050,285	\$ 9,283,776	\$ 766,509
	\$ 185,500,042	\$ 156,264,588	\$ 29,235,454
Authorized Budget 185,500,042			

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

<u>Project/Task/Line Item</u>	Total Project Costs		
	Total Proposed Budget	Expended to Date	Authorization Remaining
<u>Harbor Brook CSO Abatement Project</u>			
Original Engineering Expenses	\$ 5,500,000	\$ 5,500,000	\$ -
<u>HBIS Replacement and CSO Abatement Project</u>			
Construction Contract No. 1 (1) (JJ Lane)	\$ 18,289,918	\$ 23,391,425	\$ (5,101,507)
Other Miscellaneous Work	\$ 2,482,920	\$ -	\$ 2,482,920
Engineering/Construction Services (CDM/C&S)	\$ 2,012,615	\$ 2,313,218	\$ (300,603)
County Administration and Other Costs	\$ 114,547	\$ 943,698	\$ (829,151)
HBIS Replacement and CSO Abatement Project Total	\$ 22,900,000	\$ 26,648,340	\$ (3,748,340)
<u>Lower Harbor Brook Storage & Conveyance</u>			
Construction Estimate (with contingency)	\$ 34,502,000	\$ 27,261,089	\$ 7,240,911
Engineering Services (EEA)	\$ 4,200,000	\$ 3,956,414	\$ 243,586
Engineering Services (CDM/C&S)	\$ 3,390,000	\$ 1,497,536	\$ 1,892,464
Project Escalation to Midpoint of Construction	\$ 2,280,000	\$ 4,676,925	\$ (2,396,925)
Lower Harbor Brook Storage & Conv Total	\$ 44,372,000	\$ 37,391,964	\$ 6,980,036
<u>Harbor Brook CSOs FCF Program</u>			
Construction Estimate	\$ 12,000,000		\$ 12,000,000
Engineering Services (Arcadis)	\$ 1,878,731	\$ 143,683	\$ 1,735,048
County Administration and Other Costs	\$ 800,000	\$ 15,300	\$ 784,700
Project Escalation to Midpoint of Construction	\$ 400,000		\$ 400,000
FCF Program Total	\$ 15,078,731	\$ 158,983	\$ 14,919,748
<u>Other Harbor Brook Green</u>			
Construction Contracts incl. GIF Public/Private & Rain Barrels	\$ 9,300,000	\$ 11,239,900	\$ (1,939,900)
Ch2MHill Engineering & Program Management	\$ 3,650,000	\$ 4,983,984	\$ (1,333,984)
Harbor Brook Green Project Total	\$ 12,950,000	\$ 16,223,884	\$ (3,273,884)
<u>Program Management</u>			
Project Management (CDM/C&S)	\$ 499,269	\$ 2,538,816	\$ (2,039,547)
Project Management for FCF Plan Implem (CDM/C&S)	\$ -		
Program Management Total	\$ 499,269	\$ 2,538,816	\$ (2,039,547)
<u>Harbor Brook Mitigation</u>	\$ 3,500,000	\$ 3,265,000	\$ 235,000
Total Costs for Harbor Brook CSO Area under 4th Stip	\$ 104,800,000	\$ 91,726,988	\$ 13,073,012

Onondaga County Lake Improvement Project
4th Stipulation of the ACJ
Midland CSO Abatement
Summary of Current and Proposed Costs, and County Authorizations

<u>Project/Task/Line Item</u>	Total Project Costs		
	Total Proposed Budget	Expended to Date	Authorization Remaining
<u>Midland Ave. RTF & Conveyances</u>			
Midland Phase 1 Conveyances - Construction	\$ 1,836,434	\$ 1,836,434	\$ (0)
Midland Phase 2 RTF & Conveyances - Construction	\$ 53,372,689	\$ 53,372,689	\$ (0)
Midland Demolition Contracts - Construction	\$ 748,483	\$ 748,483	\$ 0
Other Construction	\$ 137,000	\$ 136,342	\$ 658
Phase 1 and 2 Engineering (Parsons & EEA)	\$ 14,717,163	\$ 12,503,353	\$ 2,213,810
CME Construction Testing	\$ 227,341	\$ 218,486	\$ 8,855
RTF Modifications (Construction, Eng, CM, Admin)	\$ 3,000,000		\$ 3,000,000
Facility Plan Total	\$ 74,039,110	\$ 68,815,787	\$ 5,223,323
<u>CSO 044 Conveyances Project</u>			\$ 5,223,323
Contract No. 6. - JJ Lane	\$ 12,296,549	\$ 12,098,662	\$ 197,887
Construction Contingency 5%	\$ 64,800	\$ -	\$ 64,800
Engineering Services (EEA)	\$ 750,000	\$ 726,493	\$ 23,507
Construction Management Sevices (CDM/C&S) see below			\$ -
Conveyances Project Total	\$ 13,111,349	\$ 12,825,155	\$ 286,194
<u>FCF Facility Plan</u>			\$ 286,194
Construction Estimate	\$ 5,000,000	\$ -	\$ 5,000,000
Engineering Services (Arcadis and others)	\$ 623,954	\$ 45,511	\$ 578,443
Construction Management and Administration	\$ 210,000		\$ 210,000
Project Escalation to Midpoint of Construction	\$ -		
Clinton Storage Project Total	\$ 5,833,954	\$ 45,511	\$ 5,788,443
<u>Facility Plan for Midland CSOs</u>			\$ 5,788,443
Construction Estimate	\$ 14,900,000	\$ -	\$ 14,900,000
Engineering Services (Ch2MHill)	\$ 121,401	\$ 121,368	\$ 33
Engineering Services, County Admin, ect (TBD)	\$ 3,720,000	\$ -	\$ 3,720,000
Facility Plan Total	\$ 18,741,401	\$ 121,368	\$ 18,620,033
<u>Midland Green Implementation Program</u>			\$ 18,620,033
Construction Contracts incl. GIF Public/Private	\$ 7,500,000	\$ 2,164,857	\$ 5,335,143
Ch2MHill Program Management & Engineering	\$ 3,917,636	\$ 2,456,033	\$ 1,461,603
Clinton Green Program Total	\$ 11,417,636	\$ 4,620,890	\$ 6,796,746
<u>Program Management</u>			\$ 6,796,746
Project Management (CDM/C&S) includes CSO 044	\$ 6,530,602	\$ 6,567,280	\$ (36,678)
Project Management for Facility Plan (CDM/C&S) ⁽¹⁾		\$ -	
Program Management Total	\$ 6,530,602	\$ 6,567,280	\$ (36,678)
<u>Miscellaneous County Costs</u>			\$ (36,678)
Land Acquisition	\$ 1,809,802	\$ 1,809,802	\$ -
IMA			
Legal	\$ 182,323	\$ 181,975	\$ 348
Consulting (John Clare & Mezey)	\$ 194,317	\$ 194,317	\$ 0
Debt	\$ 635,031	\$ 689,294	\$ (54,263)
Contingency	\$ 2,591,117	\$ -	\$ 2,591,117
Other	\$ 526,211	\$ 526,136	\$ 75
Miscellaneous Costs Total	\$ 5,938,801	\$ 3,401,524	\$ 2,537,277
Total Cost for Midland project under 4th stipulation	\$ 135,612,853	\$ 96,397,516	\$ 39,215,337
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

<u>Project/Task/Line Item</u>	Total Project Costs		
	Total Proposed Budget	Expended to Date	Authorization Remaining
<u>Sewer Separation Construction Contracts</u>			
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	\$5,611,423	\$1,138,577
Construction Total	\$24,102,102	\$22,889,082	\$1,213,020
<u>Service Contracts (Engineering /Consulting /Program Management)</u>			
ACE	\$484,286	\$484,286	\$0
CDM/C&S	\$1,446,468	\$1,997,539	-\$551,071
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	\$3,123,029	-\$491,283
<u>Miscellaneous County Costs</u>			
City of Syracuse	\$135,084	\$135,084	\$0
Consulting (John Clare & Mezey)	\$101,425	\$101,425	\$0
Debt	\$116,269	\$142,816	-\$26,547
Legal	\$14,235	\$14,235	\$0
Other	\$13,540	\$4,093	\$9,447
Miscellaneous Costs Total	\$380,553	\$397,652	-\$17,099
Total	\$27,114,401	\$26,409,763	\$704,638
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
 April 2014

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
2012 Green grant education			\$ 200,000
2013 Green Grant education			\$ 400,000
2014 Green Grant education			\$ 400,000
Total Appropriation			\$ 2,600,000
Funding Uses			
<u>Retz Advertising + Design</u>	Contract Amount	Expended to Date	Difference + (-)
2010/2011 Marketing Services	\$ 411,789	\$ 411,789	\$ -
2012 Marketing Services	\$ 224,303	\$ 224,303	\$ (0)
Marketing Services Subtotal	\$ 636,092	\$ 636,092	\$ (0)
<u>Environmental Finance Center Education and Outreach</u>	Contract Amount	Expended to Date	Difference + (-)
2011 Education and Outreach	\$ 346,677	\$ 346,677	\$ (0)
2012 Education and Outreach	\$ 241,815	\$ 241,815	\$ -
2013 Education and Outreach	\$ 237,758	\$ 237,758	
2014 Education and Outreach			
Environmental Finance Center	\$ 77,265	\$ 62,082	\$ 15,183
SUNY ESF	\$ 63,149	\$ 2,724	\$ 60,425
Onondaga Environmental Institute	\$ 126,970	\$ 37,257	\$ 89,713
Onondaga Earth Corps	\$ -	\$ -	\$ -
Baltimore Woods Nature Center	\$ -	\$ -	\$ -
Centro Campaign	\$ 49,000	\$ -	\$ 49,000
ASLF	\$ -	\$ -	\$ -
Non Labor Expenses (EFC)			
Printing (incl purch serv)	\$ 7,471	\$ 4,892	\$ 2,579
Postage	\$ 300	\$ 228	\$ 72
Travel	\$ 1,426	\$ 47	\$ 1,379
Facilities	\$ 4,960	\$ 1,640	\$ 3,320
Program Related Supplies	\$ 4,968	\$ 12,553	\$ (7,585)
Research eq & demo mat	\$ 23,818	\$ 22,034	\$ 1,784
Indirect/Overhead	\$ 43,319	\$ 18,125	\$ 25,194
2013 Education and Outreach	\$ 402,646	\$ 161,582	\$ 241,064
Education & Outreach Subtotal	\$ 1,228,896	\$ 987,833	\$ 241,063
<u>Miscellaneous Ed/Outreach Expenses</u>	Contract Amount	Expended to Date	Difference + (-)
2010/2011 Miscellaneous Exp.	\$ 105,764	\$ 105,764	\$ -
2012 Miscellaneous Exp.	\$ 79,852	\$ 79,852	\$ -
2013 Miscellaneous Exp	\$ 34,158	\$ 34,158	\$ -
2014 Miscellaneous Exp	\$ 464,987		\$ 464,987
Travel		\$ 3,413	
Purchase card/Petty cash		\$ 795	
Image Press		\$ 2,700	
Paiges seeds		\$ 2,282	
Just th eright stuff		\$ 2,056	
Rain berrel reimb (suburban projects)		\$ (6,223)	
Media One		\$ 400	
Syr Blue Print		\$ 122	
Environmental Design and Research	\$ 20,000.00	\$ 19,000	\$ 1,000
2010/2011 media	\$ 28,750.00	\$ 28,750	\$ -
2012 Media	\$ 1,500	\$ 1,500	\$ -
	\$ -	\$ -	\$ -
Miscellaneous Subtotal	\$ 735,011	\$ 274,569	\$ 460,442
STR Education and Outreach Totals	Contract Amount	Expended to Date	Difference + (-)
	\$ 2,600,000	\$ 1,898,494	\$ 701,506
Remaining Balance			\$ 701,506

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

APPENDIX

December 2014

	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	\$54,870,000	\$54,870,000			\$70,288,890	\$41,834,264	\$78,568,119	\$30,173,921		
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	\$14,003,569	\$15,378,304	\$53,689,500	\$46,700,136	\$62,477,416	\$15,802,674		
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	\$34,900,616	\$33,525,880						
MIDLAND AVE PHASE II & RTF	\$45,000,000					\$15,000,000	\$15,000,000	\$37,339,317	\$18,902,102		
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							\$11,332,407	\$10,176,651	\$14,050,177	\$14,050,177
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	\$163,650,000	\$163,650,000	\$103,609,200	\$103,609,200	\$296,103,257	\$247,603,598	\$241,244,447	\$100,059,736	\$17,456,177	\$17,456,177
*Original budget figures were based on 1997 dollars											
NYS includes awards beyond original pledge (i.e. civic strip)											
(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 12/31/2014

Project Title	ACJ START DATE	ACJ FINISH DATE	COUNTY FINISH DATE	ORIGINAL BUDGET(2)	AUTHORIZED BUDGET	ENGINEER
METRO - Current						
AERATION SYSTEM UPGRADE		7/1/2002	01/03/00	\$ 8,500,000	\$ 6,925,115	EEA
AMMON. REMOVAL DEMONSTRATION	11/1/1998	3/1/2000	12/31/99	\$ 2,000,000	\$ 1,350,000	EEA
BIOSOLIDS - MECHANICAL THICKENERS					\$ 15,100,000	
DIGESTER MOD/CHEMICAL STORAGE		7/1/2002	10/31/00	\$ 5,600,000	\$ 5,092,545	C&S
DIGITAL SYSTEMS IMPROVEMENTS		7/1/2002	06/31/01	\$ 2,900,000	\$ 3,520,317	Systems Integrated
MISCEL. IMPROVEMENTS		7/1/2002	01/31/99	\$ 1,400,000	\$ 1,400,000	
ODOR CONTROL		7/1/2002	12/20/00	\$ 7,700,000	\$ 8,393,855	OBG
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		
PHOSPHORUS REMOVAL - PILOT	4/1/2006	4/1/2007	12/31/00	\$ 5,000,000	\$ 4,300,000	EEA
CSO - Current						
CLINTON ST. CONVEYANCE/	5/1/2003	5/1/2007	10/28/06	\$ 15,987,190	\$ 185,500,042	EEA
CLINTON ST. RTF	5/1/2007	1/1/2012	12/28/10	\$ 15,258,090		
ERIE BLVD STORAGE SYSTEM		7/1/2002	04/13/02	\$ 3,000,000	\$ 2,684,523	Barton & Loguidice
FRANKLIN ST. FCF	4/26/1999	5/1/2000	05/01/00	\$ 3,200,000	\$ 5,216,618	EEA
HARBOR BROOK FCF		7/1/2002	07/01/02	\$ 250,000	\$ 889,109	EEA
HARBOR BROOK CSO ABATEMENT		7/1/2002		\$ 5,443,980	\$ 104,800,000	Moffa & Assoc.
HIAWATHA INTERCEPTOR/RTF		7/1/2002	12/31/00	\$ 8,000,000	\$ 6,047,183	EEA/Parsons
KIRKPATRICK ST. PUMP STATION		7/1/2002	10/29/02	\$ 5,641,860	\$ 12,558,335	EEA
MALTBIE STREET FCF	8/31/1998	7/1/2002	04/26/99	\$ 250,000	\$ 362,028	EEA
MIDLAND AVE RTF & CSO ABATEMENT	5/1/1999	5/1/2004	12/06/00	\$ 75,000,000	\$ 135,612,853	EEA
MIDLAND AVE MITIGATION COSTS					\$ 3,000,000	
NEWELL STREET RTF		7/1/2002	07/01/01	\$ 1,310,000	\$ 473,132	Moffa & Assoc.
ONONDAGA CREEK FCF		7/1/2002	07/01/02	\$ 3,000,000	\$ 648,342	Parsons
SEWER SEPARATION		1/1/2012	01/01/12	\$ 7,703,880	\$ 27,684,286	OBG
SIPHON REHABILITATION		7/1/2002	06/11/99	\$ 1,230,000	\$ 1,026,391	C&S
TEALL BROOK FCF		7/1/2002	12/01/01	\$ 175,000	\$ 1,235,346	EEA
WEST ST SEWER SEPARATION	5/1/1999		01/14/00	\$ 1,000,000	\$ 2,720,572	CHA
ERIE BLVD CSO ABATEMENT						New Project
OTHER						
AMBIENT WATER MONITORING		7/1/2002		\$ 8,000,000		
OXYGENATION DEMO PROJECT	5/1/1999	4/1/2003	02/25/04	\$ 2,400,000	\$ 10,087	
SEQRA REGULATORY COMPLIANCE ⁽¹⁾				\$ 50,000	\$ 50,000	Parsons
TOTAL DOLLARS ⁽²⁾			*	\$ 380,000,000	\$ 665,986,866	
*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 12/31/2014

[illegible]

December 2014

	Project Title	TOTAL PAYMENTS TO DATE 12-31-14	TOTAL PAYMENTS TO DATE 09-30-14	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	\$ 14,815,674	\$ 14,815,674	\$ -
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/ STAGE II PHOSPHORUS REMOVAL	\$ 128,688,040 \$ -	\$ 128,688,040 \$ -	\$ -
9	PHOSPHORUS REMOVAL - PILOT	\$ 4,111,714	\$ 4,111,714	\$ -
	CSO - Current			\$ -
10	CLINTON ST. CONVEYANCE/ CLINTON ST. RTF	\$ 156,262,185 \$ -	\$ 152,854,730	\$ 3,407,456 \$ -
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	\$ 91,726,986	\$ 90,481,225	\$ 1,245,762
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	\$ 96,397,517	\$ 95,769,836	\$ 627,680
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	\$ 26,409,763	\$ 26,171,869	\$ 237,894
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	\$ 19,351,389	\$ 18,737,225	\$ 614,164
28	OXYGENATION DEMO PROJECT	\$ 10,087	\$ 10,087	\$ -
29	SEQRA REGULATORY COMPLIANCE	\$ -	\$ -	\$ -
				\$ -
	TOTAL DOLLARS	\$ 601,045,851	\$ 594,912,895	\$ 6,132,956

Chronology of Project Construction Starts

	<u>Status</u>	<u>Location</u>
<u>Pre-ACJ Signing (1/20/98)</u>		
• General Improvements	Complete	Metro
• Odor Control and Residuals Handling	Complete	Metro
 <u>1998</u>		
• 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
 <u>1999</u>		
• 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
 <u>2000</u>		
• Midland Ave. Conveyance Phase I	Complete	Tallman/Oxford St.
• Phosphorus Removal – Phase I Pilot	Complete	Metro
 <u>2001</u>		
• 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
 <u>2002</u>		
• Harbor Brook FCF	Complete	W. Hiaw./I-690
• Brighton Ave Sewer Separation (CSO 053/054)	Complete	Brighton/Bishop Ave

<u>Project</u>	<u>Status</u>	<u>Location</u>
<u>2004</u>		
• Tallman/Onondaga Sewer Separation (CSO 038, 040, 046A & 046B)	Complete	Tallman/Onondaga
• Midland Phase II RTF/Conveyances	Complete	Blaine/Oxford St.
<u>2005</u>		
• Phosphorus Removal – Phase II Pilot	Complete	Metro
• Biosolids Handling Improvements	Complete	Metro
<u>2006</u>		
• Sewer Separation – CSO 047 & 048	Complete	South Ave/ Bissell St.
<u>2007</u>		
• Sewer Separation – CSO 050	Complete	Parkway/Rockland
• Clinton Phase I Conveyances	Complete	
<u>2008</u>		
• Clinton Phase IIA Conveyances	Complete	
<u>2009</u>		
• Sewer Separation – CSO 051	Complete	Colvin St.
<u>2010</u>		
• Harbor Brook Interceptor Sewer	Authorized/Underway	Velasko/Fayette
<u>2011</u>		
• Midland CSO 044	Authorized/Underway	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/Underway	West Genesee/Franklin
• CSO 045 Sewer Separation Project	Authorized/Underway	South Avenue
<u>2012</u>		
• Save the Rain Green Projects	Completed	Various
<u>2013</u>		
• Save the Rain Green Projects	Completed	Various
<u>2014</u>		
• Save the Rain Green Projects	Completed	Various
• Harbor Brook CSO 063 Conveyances Project	Underway	Hiawatha/State Fair Blvd.

**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
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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
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**PHASE III IMPORVEMENTS CONTRACT 1 - DIGESTER & LAGOON
IMPROVEMENTS**

Maxim Construction	\$ 645,730.74
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**PHASE III IMPROVEMENTS CONTACT 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
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FULL SCALE AMMONIA/PHOSPOHORUS REMOVAL - FIELD OFFICE

James & Son Constrction	\$ 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
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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
Independent Fiedl Svs (Cogen)	\$ 18,019.75

CSO's

CLINTON CONVEYANCES PHASE I & 2A

The Delaney Group, Inc.	\$ 14,478,053.39
The Delaney Group, Inc.	\$ 4,074,455.32
SIDA	\$ 2,634,999.43
MOU (City of Syracuse)	\$ 168,000.00
MOU City of Syracuse (Connective Corridor)	\$3,825,000.00

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)	\$ 1,083,727.39
C.O. Falter (War Memorial)	\$ 692,298.87
Ridley (War Memorial)	\$ 447,957.66
Economy Paving (On Center)	\$ 1,094,119.49
J&B (Erie Canal Museum)	\$ 73,480.00
Jett Industries (Clinton Storage)	\$ 75,940,182.16
Joy Process Mechanical (Cistern War Memorial)	\$ 82,615.00
C&S Technical (Cistern War Memorial)	\$ 233,652.56
Green Culture (Rain Barrels)	\$ 44,335.50
Syracuse Utilities (Duct Bank)	\$ 59,982.56
Water Cooling Corp. (Storage Tank)	\$ 2,875.00

**CONTRACTORS FOR
CONSTRUCTION PROJECTS
CSO's (cont)**

MOU City of Syracuse (Road Reconstruction)	\$ 638,997.06
MOU City of Syracuse (Dr. Weeks)	\$ 89,000.00
MOU City of Syracuse (Bank Alley)	\$ 108,000.00
MOU City of Syracuse (Upstate)	\$ 1,500,000.00
Walbridge (Streetscape/Water St)	\$ 1,432,437.86
Ruston Paving (Sunnycrest Parking Lot)	\$ 410,372.20
MA Bongiovanni Inc.	\$ 3,000.00
Acts II Construction (Skiddy Park)	\$ 550,916.44
D.E. Tarolli (Otisco Street)	\$ 1,847,459.81
Orchard Earth & Pipe (Syr School dist Park Lot)	\$ 430,172.42
Slate Hill Construction (E. Water St)	\$ 147,952.84
Davis Wallbridge (Onon Cty Pub Library)	\$ 320,291.95
Tumbers, Schichtels Nursery (Trees), Martisco, Dixie, Pro Scapes	\$ 528,233.93
Acts II (Seymour Academy)	\$ 373,309.00
Paul R. Vitale (City Lot 4)	\$ 607,852.44
John R. Dudley (Leavenworth Park)	\$ 719,311.20
VIP (Onon Public Library)	\$ 54,160.06
Ballard Construction (Westcott Comm Ctr)	\$ 52,500.00
Cornerstone Paving (Oswego St)	\$ 109,046.54
John Dudley Construction (W. Onondaga St.)	\$ 1,371,475.75
Barrett Paving (W. Fayette St.)	\$ 588,982.07
Davis Wallbridge (Westcott St.)	\$ 870,263.89
ProScapes (Sunnycrest Arena)	\$ 87,585.22
Acts II (E. Washington St)	\$ 795,523.24
John R. Dudley (690 Downspout)	\$ 597,965.65
Josall (Maganelli Comm Ctr)	\$ 378,400.00
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)	\$ 100,011.00
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)	\$ 40,500.00
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
CNY Philanthropy (GIF)	\$ 62,700.00

**CONTRACTORS FOR
CONSTRUCTION PROJECTS**
CSO's (cont)

Loon Creek (GIF)	\$	137,350.00
NHW Syracuse (GIF)	\$	129,400.00
McMahan/Ryan Child Advocacy (GIF)	\$	178,050.00
St. Lucy's Church (GIF)	\$	17,700.00
Bethany Baptist Church (GIF)	\$	372,311.50
St. Lucy's Church (GIF)	\$	69,000.00
500 W. Onondaga St. Inc. (GIF)	\$	34,347.00
Onondaga Commons LLC (GIF)	\$	124,200.00
Onondaga Commons LLC (GIF)	\$	199,500.00
Onondaga Commons LLC (GIF)	\$	198,949.00
Onondaga Commons LLC (GIF)	\$	77,800.00
Gemmi Boy (GIF)	\$	47,537.00
Mr. Lady Bug (GIF)	\$	46,700.00
Grace Episcopal Church (GIF)	\$	99,000.00
Snapse Downtown (GIF)	\$	35,700.00
360 Warren Associates (GIF)	\$	107,864.00
Housing Visions Unlimited (GIF)	\$	194,650.00
Near West Side Initiatives, Inc. (GIF)	\$	34,500.00
Scannell Properties (GIF)	\$	204,000.00
Genesee Armory (GIF)	\$	144,400.00
Third National Associates (GIF)	\$	533,300.00
Center for Peace & Social Justice (GIF)	\$	57,700.00
Graham Millwork (GIF)	\$	90,500.00
Onondaga Commons LLC (GIF)	\$	124,100.00
Onondaga Commons LLC (GIF)	\$	33,400.00
Onondaga Commons LLC (GIF)	\$	294,300.00
PEACE (GIF)	\$	52,200.00
Syracuse Business Center (GIF)	\$	288,400.00
Erie Bruce Corp (GIF)	\$	151,700.00
Visiting Nurses Association (GIF)	\$	60,349.20
Near West Side Initiatives, Inc. (GIF)	\$	94,300.00
JNJ Syracuse (GIF)	\$	32,600.00
UAS (GIF)	\$	57,600.00
Brewster Medical (GIF)	\$	221,000.00
Southside Community (GIF)	\$	59,800.00
J C Smith Inc. (GIF)	\$	337,250.00
Burnet Railroad (GIF)	\$	357,400.00
Taksum Assoc. (GIF)	\$	45,200.00
Zip Networks (GIF)	\$	276,529.00
Ra lin Inc. (GIF)	\$	221,350.00
Ra lin Inc. (GIF)	\$	206,450.00
Butternut St. LLC (GIF)	\$	104,430.00
Nojaim Inc. (GIF)	\$	234,800.00
St. Joseph's Hospital Health Center (GIF)	\$	145,900.00
University Hill Apts. (GIF)	\$	36,500.00
Auto Row (GIF)	\$	132,000.00
J C Smith Inc. (GIF)	\$	79,800.00
Housing Visions Unlimited (GIF)	\$	70,200.00

**CONTRACTORS FOR
CONSTRUCTION PROJECTS**
CSO's (cont)

Thomas J Cerio (GIF)	\$ 36,750.00
R J Westcott (GIF)	\$ 77,392.00
R J Westcott (GIF)	\$ 119,687.00
R J Westcott (GIF)	\$ 13,500.00

ERIE BOULEVARD STORAGE SYSTEM

M. Hubbard Construction	\$ 1,556,752.00
Rdiley Electric (Electrical)	\$ 154,059.00
Endeco/YSI (SE33923)	\$ 24,117.90

FRANKLIN STREET FCF

Burns Bros (Mechanical)	\$ 179,167.67
Scriba electric (Electrical)	\$ 144,640.61
Burns Bros. (Plumbing)	\$ 28,400.00
Maxim	\$ 3,568,029.43

HARBOR BROOK CSO ABATEMENT

Joseph J. Lane Construction (Interceptor Sewer Replacement)	\$ 23,391,425.07
Bette Cring (Elephant Barn Greening)	\$ 207,701.00
John Dudley Construction (Geddes St)	\$ 279,068.06
J&B Installaions (Hazard Library/Erie Canal Museum)	\$ 67,275.00
Economy Paving (Rosamond Gifford Zoo)	\$ 688,638.00
J.J. Lane (Lower HB)	\$ 5,249,753.76
A.J. Montclair (HB CSO Storage)	\$ 260,000.00
C.O. Falter (HB CSO Storage)	\$ 30,259,100.80
Davis Wallbridge (Onon Cty Pub Library)	\$ 378,920.43
Cornerstone Paving (Parking Lots)	\$ 149,195.48
Green Culture	\$ 80,665.00
Tumbers, Schichtels Nursery (trees), Proscapes, Dixie	\$ 300,207.19
City of Syracuse	\$ 3,342,875.63
VIP	\$ 54,160.06
Steadman Old Farm	\$ 11,480.00
Marcellus Const. (CSO 063)	\$ 5,365,007.00
OnSite	\$ 8,755.00
J J Lane (CSO 18)	\$ 4,175,758.46
Patricia Electric (Wetland Pilot)	\$ 130,440.00
MOU City of Syracuse (Road Reconstruction)	\$ 138,165.00
Davis Wallbridge (Wadsworth Park)	\$ 345,524.55
Acts II (Lewis Park)	\$ 217,285.58
Knapp Electric (Wetlands)	\$ 41,856.00
Vitale Excavating (Bedding Sand), Butler Fence	\$ 232,533.35
Bette Cring (Zoo Wetlands)	\$ 1,290,064.10
DE Tarolli (Green Structures)	\$ 1,027,932.69
J & J Landscape	\$ 33,640.00
Vibrant Spaces, LLC (GIF)	\$ 153,618.00
NYSARC, Inc. (GIF)	\$ 78,907.14

**CONTRACTORS FOR
CONSTRUCTION PROJECTS
CSO's (cont)**

Consuela's Westside Taqueria (GIF)	\$ 29,988.00
Consuela's Tato Britter (GIF)	\$ 8,249.50
James Ranalli, W. Genesee (GIF)	\$ 616,100.00
Vibrant Spaces, LLC (GIF)	\$ 198,680.00
Brooklyn Pickle (GIF)	\$ 30,555.00
St. Patrick's Loft (GIF)	\$ 177,300.00
Smith Housing (GIF)	\$ 52,600.00
All Times (GIF)	\$ 76,500.00

HARBOR BROOK FCF

C.O. Falter Construction Corp. (General)	\$ 373,370.21
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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
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MIDLAND AVENUE CONVEYANCES

Marcellus construction (General)	\$ 1,836,434.47
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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
J.J. Lane	\$ 12,098,662.37
Acts II (Hugh's Magnet School Parking Lot)	\$ 314,439.81
Davis Wallbridge (Onon Cty Pub Library)	\$ 116,033.35
VIP (Onon Public Library)	\$ 27,080.03
Green Culture (Rain Barrels)	\$ 44,335.50
Tumbers, Schichtels Nursery (Trees)	\$ 158,942.90
Weather Guard Tecta (USPO Salina St)	\$ 242,860.00
MOU City of Syracuse (Road Reconstruction)	\$ 408,332.04
MA Bongiovanni (storage Tank)	\$ 66,130.00
MOU City of Syracuse (ESF)	\$ 100,000.00
Jubilee Homes of Syracuse (GIF)	\$ 100,000.00

**CONTRACTORS FOR
CONSTRUCTION PROJECTS
CSO's (cont)**

Dunbar Association, Inc. (GIF)	\$ 99,840.00
Syracuse Model Neighborhood (GIF)	\$ 250,000.00
People's AME Zion Church (GIF)	\$ 61,400.00
People's Community Dev. Corp (GIF)	\$ 80,825.00
Salina Shoe Salon (GIF)	\$ 48,000.00
People's AME Zion Church (GIF)	\$ 5,000.00
Matawon Development Group (GIF)	\$ 24,214.00
Tucker Missionary Baptist Church (GIF)	\$ 195,000.00
Lauren Tawil (GIF)	\$ 212,400.00

SEWER SEPARATION - CSO 022/045

Joy Process Mechanical (Plumbing)	\$ 853,536.68
Joseph J. Lane Construction	\$ 4,867,219.35

SEWER SEPARATION - CSO 024

C.O. Falter Construction Corp.	\$ 698,863.74
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SEWER SEPARATION - CSO 053/054

C.O. Falter Construction Corp.	\$ 2,000,817.40
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SEWER SEPARATION - CSO 038, 040, 046A&B

C.O. Falter Construction Corp.	\$ 3,524,487.29
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SEWER SEPARATION - CSO 047 & 048

C.O. Falter Construction Corp.	\$ 1,654,022.34
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SEWER SEPARATION - CSO 050

Joseph J. Lane Construction	\$ 4,360,527.06
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SEWER SEPARATION - CSO 051

Joseph J. Lane Construction	\$ 5,029,323.00
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SIPHON REHABILITATION

Insituform Metropolitan	\$ 1,021,822.99
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TEALL BROOK FCF

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

WEST STREET AREA SEWER SEPARATION

Maxim Construction (General)	\$ 2,311,125.85
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WEP ACRONYMS

ACJ	Amended Consent Judgment
AMP	Ambient Monitoring Program
AMSA	Association of Metropolitan Sewerage Agencies
ARRA	American Recovery and Reinvestment Act
ASLF	Atlantic States Legal Foundation
AWQS	Ambient Water Quality Standards
BAF	Biological Aerated Filter (Biostyr)
BMP	Best Management Practices
BOD	Biological Oxygen Demand
BPJ	Best Professional Judgment
Brew	WEP's Standard Abbreviation for the Brewerton Wastewater Treatment Plant
Bville	WEP's Standard Abbreviation for the Baldwinsville Wastewater Treatment Plant
CAA	Clean Air Act
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
ECL	Environmental Conservation Law
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
FOG	Fats, Oil, and Grease
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
m	Meters
MCP	Municipal Compliance Plan
MDV	Multiple Discharge Variance
Metro	WEP's Standard Abbreviation for the Metropolitan Syracuse Wastewater Treatment Plant
MGD	Million Gallons Per Day
mg/L	Milligrams Per Liter
MIS	Main Interceptor Sewer
ML	WEP's Standard Abbreviation for the Meadowbrook/Limestone WWTP
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
NPDES	National Pollutant Discharge Elimination System
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
OAK	WEP's Standard Abbreviation for the Oak Orchard WWTP
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
POTW	Publicly Owned Treatment Works
PWL	Priority Waterbodies List
RTF	Regional Treatment Facility
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
SORP	Sewer Overflow Response Plan
SPCC	Spill Prevention, Control, and Countermeasures
SPDES	State Pollutant Discharge Elimination System
SRP	Soluble Reactive Phosphorus
SSES	Sanitary Sewer Evaluation Study
SSI	Sewage Sludge Incinerator
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
TBEL	Technology-Based Effluent Limits
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
USGBC	United States Green Building Council
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
WET	Whole Effluent Toxicity
WLA	Waste Load Allocations
WQBEL	Water Quality-Based Effluent Limits
WR	WEP's Standard Abbreviation for the Wetzel Road Wastewater Treatment Plant
WSE	Waste Stream Environmental

