

**Volume III  
Spring 2017**

## IN THIS ISSUE

### **LGC Global Inc. Rises to the Challenge**

*Major Project Underway  
to Repair and Replace  
Aging Underground  
Detroit Pipelines*

### **The Chairman's Corner**

*Avinash Rachmale*

### **Executive Profile**

*Tom Hardiman, Sr.  
A Champion for Detroit*

### **EXTRA! EXTRA!**

*LGC Executives & Staff  
Spread Holiday Joy to  
Local Families Detroit  
Public Schools and  
Detroit Police  
Department Partnered in  
the Celebration*

*LGC Supports Detroit  
Public Schools  
with Sponsorship of  
Events Recognizing  
Student Achievements in  
Academics and Sports*

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## **LGC Global Inc. Rises to the Challenge**

*Re-Building Infrastructure with 21st Century Proficiency*



LGC Global Inc. was tasked with installing a 30" watermain crossing under the Rouge River along Jefferson Avenue. The complex project, 425 feet in length and 50 feet below the grade level of the Rouge River, required innovation, collaboration and communication. The project called for installation of ductile iron pipe under the river, with bell and spigot joints, using trenchless installation methods. Scope also involved excavation, backfill, grading, polyethylene encasement of underground piping, hydrostatic testing, chlorination/flushing, and cast-in-place concrete. It challenged our engineers to test new methods and our teams to coordinate

seamlessly and maximize efficiency—truly testing LGC Global Inc. on our capabilities and technical expertise. The project was predominantly self-performed and completed in half the allotted time, within budget and with minimal impact on the environment.

### **A New Method**

#### *Skilled Implementation & Execution*

LGC Global Inc.'s engineers worked closely with GLWA's designer and the pipe manufacturer to determine the most effect materials to utilize for the design of the piping. This marked the first time High Deflection Single Slot (HDSS) joints were installed via directional boring in the U.S.

(Continued on page 2)

### LGC is Dedicated to Detroit



Avinash Rachmale, Chairman

I am extremely optimistic about the future of our company because of the positive outlook of the business community. Although the economy is not yet bustling, there is strong sense of confidence being shared among those in the financial institutions. This leads many business owners to believe that 2017 will be a good year for the construction business and job creation. Detroit is a great place to be right now. More people are moving in, and hundreds of new jobs are being created. The New Center area where our headquarters is located is alive

with enthusiasm, and it will be one of the most popular sections of the city once the Q-Line is operational.

I am pleased to say that the LGC Executive Board just completed a planning session and our forecast for the next 3 years is very promising. We estimate that we will have 30% growth in revenue. This year alone we are positioned to win \$80-\$100 Million in federal, municipal, and facility management work. This will allow us to add more qualified staff in the areas of estimating, project management and proposal writing.

I am proud for the company to be part of the very important work with the Great Lakes Water Authority (GLWA). We have a 20 year history working with them, and LGC is clearly one of the experts in the field. They are one of our premier clients, and our working relationship is very healthy and sound. There is a tremendous need in the Metro Detroit area for the kind of work that we perform, and GLWA spends approximately a Half-Billion Dollars annually.

With nearly 3,000 miles of water mains in Detroit, Lakeshore has repaired and/or replaced more than 100 miles of aging pipes and water mains. We are hearing news from Washington, D.C. that President Trump is making repairs and upgrades to the nation's infrastructure a high priority. If this is true, perhaps more dollars will flow, allowing LGC to bid on additional work.

We are also working hard with the Detroit Public Schools. DPS is a very important client, and we have had a lot of success in providing the much needed work in terms of facility management. We applaud the school administration for the working with our team to improve the facilities. Our combined efforts have resulted in a positive outcome. LGC is on the path of growth, and I firmly believe that with a team effort, perseverance and hard work, 2017 will be a very good year for us. I believe in the adage "Teamwork makes the dream work". Together, lets make it happen.



(Continued from page 1)

The LGC Global Inc. team overcame several obstacles to complete this project. Soil conditions were virtually unknown due to the depth of the pipe installation, requiring the operator to study and report site-specific conditions and make

modifications to the work plan as needed. Additionally, drilling work couldn't be stopped once it had started, necessitating the development of a detailed work plan. Lastly, LGC Global Inc. made sure all teams and departments were in constant communication and coordination with each other, allowing an expedited project completion date.

### Progress Progression

#### 1. Mobilization & Drilling Machine



The LGC Global Inc. team studies the site-specific conditions for crossing the staging area, and mobilized work equipment and the directional drilling machine to commence work.



## 2. Horizontal Directional Drilling for Pilot Profile

The work started with drilling using a pilot head of 6" under the Rouge River.

The pilot bore involved drilling the length of the bore with a small-diameter drill head to establish an accurate bore path.



## 4. Pipe Installation

The crew installed a 30" transmission main through the attained pipe profile by reaming and simultaneously pulling the pipe into the drill hole.

## 3. Back Reaming

Once the entire bore path had been pilot-bored, a 54" reamer was placed on the drill head. The reamer was then pulled back through the borehole to widen the hole.



## 5. Connections/Tie-ins

Finishing touches on the project included connecting the new 30" transmission main to the existing 42" transmission main and pressure testing and chlorinating the new main before putting it into service.



## Tom Hardiman | EXECUTIVE PROFILE



You could call it déjà vu, or just perfect timing. The seemingly inevitable re-uniting of two influential businessmen who have often been referred to as the dynamic duo is now back in place. Thomas E. Hardiman (Tom) has returned to the company as Executive Vice President. He and Avinash Rachmale, Founder and Chairman of LGC Global have been friends and business associates for nearly

23 years. It was Hardiman, a business consultant at the time, who assisted Rachmale in forming his first engineering company, Lakeshore Engineering Services (LES) in 1994. As an African American with roots in Detroit, he was able to assist Rachmale, a native of India with the ins and outs of Detroit politics and introduce him to potential business associates.

Hardiman, a retired Detroit firefighter and Wayne State University business school graduate, and Rachmale, a graduate of Wayne State's Master of Engineering program made a good team back then, and their relationship has never wavered. Tom worked with Rachmale at his first company, LES for 8 years before leaving to establish his own firm, A and H Contractors which is now operated by other family members and Staff

***"Avinash and I understand each other very well. We both know the other's strengths and this works to our advantage in moving the business forward"***

In returning to work with Rachmale's team, Tom says his major goal is to help Avinash build LGC to a half-billion dollar company in the next 5 years. He is concerned, but not worried about the impact of the new administration. "We want to build a portfolio that includes contracts with federal, state and local governments along with private

Companies, hospitals and schools." says Hardiman. He is confident that LGC's team can expand and continue on the path of becoming a well-respected contractor in the global marketplace.

***"Our world headquarters is in Detroit, and this is a time that the Motor City is enjoying world-wide positive publicity for its renaissance. In my opinion, the timing is perfect for LGC to magnify its presence. I enjoy the challenges."***

He adds that every day there is a new challenge, thus new opportunities.

# EXTRA! EXTRA! ♦ EXTRA! EXTRA! ♦ EXTRA! EXTRA!

## LGC Executives & Staff Spread Holiday Joy to Local Families

*Detroit Public Schools and Detroit Police Department Partnered in the Celebration*



Detroit Police officers and representatives from Detroit Public Schools joined the fun at a pre-Christmas luncheon and gift give-away at Lakeshore's

Detroit headquarters. Some 50 children and their parents enjoyed a lunch of pizza and a variety of international ethnic foods, desserts and fresh fruits. It was one of many functions sponsored by Lakeshore and local partners to help needy families. Many of the police officers dressed in festive holiday attire, including Mr. & Mrs. Santa Claus. Gifts included a laptop computer for every child, video

gaming systems, books and toys. Families also received essential household items and bed linens. LGC employees served as hosts, making it a great afternoon for everyone. "This is something that we enjoy doing for the community, and it really warms my heart to see the smiles on the faces of these children" said LGC Executive Vice President Thomas Hardiman. He and LGC Chairman Avinash Rachmale are long-time advocates of giving back to the community. "Giving back is part of what we do. We feel it is our obligation as a Detroit-based company to recognize the needs of the underserved, and to offer help throughout the year" said Rachmale.



## LGC Supports Detroit Public Schools with Sponsorship of Events Recognizing Student Achievements in Academics and Sports



The City of Detroit was jubilant as Cass Technical High School won the City-wide football championship. Several of the players received full academic and athletic scholarships to major universities including the University of Michigan. LGC helped to sponsor a celebratory parade downtown from the high school to City Hall and to Ford Field (Detroit Lions stadium). It is just one of many programs that the company supports at DPS including the purchase of books and supplies for several elementary and middle schools.



### In Memoriam Delores Bennett

(passed February 4, 2017)

Our deepest condolences to the family of our cherished friend

and board member of our non-profit, Lakeshore Economic Coalition.

Mrs. Bennett was a true leader and advocate for the poor and underserved. We will continue to support her beloved Adopt-a-Child charity.

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