

REPORT NO. 150 of the
ENVIRONMENT, TRANSPORTATION & PUBLIC SAFETY
STANDING COMMITTEE
of its meeting held June 19, 2013

Present: Councillor J. Gignac
Councillor R. Jones
Councillor H. Payne
Councillor F. Valentinis, Chair

Regrets: Councillor A. Halberstadt

That the following recommendations of the Environment, Transportation and Public Safety Standing Committee **BE APPROVED:**

Moved by Councillor Gignac, seconded by Councillor Payne,

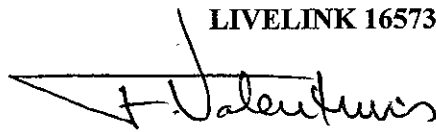
THAT City Council **RECEIVE FOR INFORMATION** the report authored by the Project Administrator dated May 28, 2013 entitled "Windsor Riverfront Retention Treatment Basin Project Wins Engineering Award of Excellence"; and further

THAT Administration **BE REQUESTED** to explore the opportunity of commemorating this great achievement with a plaque along the riverfront.

Carried.

Clerk's Note: The administrative report authored by the Project Administrator dated May 28, 2013 entitled "*Windsor Riverfront Retention Treatment Basin Project Wins Engineering Award of Excellence*" is attached as background information.

LIVELINK 16573, EI/10133



CHAIRPERSON



COUNCIL SECRETARIAT

NOTIFICATION:				
Name	Address	Email Address	Telephone	FAX



THE CORPORATION OF THE CITY OF WINDSOR
Environment, Transportation & Public Safety Standing Committee –
Admin Report – Environment Transportation

**MISSION STATEMENT:**

"The City of Windsor, with the involvement of its citizens, will deliver effective and responsive municipal services, and will mobilize innovative community partnerships"

LiveLink REPORT #: 16573 EI/10133	Report Date: May 28, 2013 (PW#3573/lp-05/28/13)
Author's Name: Jake Renaud	Date to Standing Committee: June 19, 2013
Author's Phone: 519 255-6100 ext. 6825	Classification #:
Author's E-mail: jrenaud@city.windsor.on.ca	

To: Environment, Transportation & Public Safety Standing Committee

Subject: Windsor Riverfront Retention Treatment Basin Project Wins Engineering Award of Excellence

1. RECOMMENDATION: City Wide: _____ Ward(s): _____

THAT City Council **RECEIVE FOR INFORMATION** this report announcing that the City of Windsor's Riverfront Retention Treatment Basin Project (RTB) received the "Award of Excellence" from the Consulting Engineers of Ontario.

EXECUTIVE SUMMARY:

N/A

2. BACKGROUND:

The Retention Treatment Basin is part of a pollution control strategy for the Windsor Riverfront area with the specific objective of reducing combined sewer overflows (CSOs) and total pollutant loadings to the Detroit River. As detailed in the Environmental Study Report the RTB includes the following main components: a CSO Collection Sewer, five CSO Interceptor Chambers, an RTB located on the riverfront between Glengarry and Aylmer Avenues, an influent Pumping Station and an underwater RTB effluent outfall to the Detroit River.

This project began in June 2009 as part of the Infrastructure Stimulus Funding program and included 5 separate contracts over 3 years. The overall project was substantially complete on October 31, 2011.

3. DISCUSSION:

Stantec Consulting Inc., the consultant for the project, submitted an application to the Consulting Engineers of Ontario. The Consulting Engineers of Ontario have 200 members and 37 projects were submitted for the 12 available awards. The RTB project received the top honour for the most outstanding project with respect to firms with 351+ employees.

The Windsor Riverfront Retention Treatment Basin (RTB) and Stantec Consulting Inc.'s Windsor design team received the "Award of Excellence".

The Consulting Engineers of Ontario's recent issue of Accolades magazine published articles outlining all the submissions and successful winning projects. The feature article on the RTB is attached as Schedule A.

4. RISK ANALYSIS:

N/A

5. FINANCIAL MATTERS:

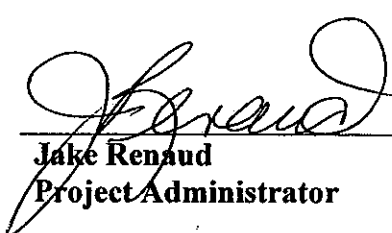
N/A

6. CONSULTATIONS:

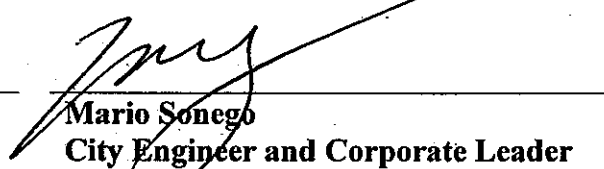
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7. CONCLUSION:

Receiving the 2013 "Award of Excellence" from the Consulting Engineers of Ontario is a prestigious honour for the Corporation of the City of Windsor, Stantec Consulting Inc. and all levels of government for the involvement on the Retention Treatment Basin and their commitment to addressing significant environmental concerns with combined sewer overflows (CSOs).



Jake Renaud
Project Administrator



Mario Sonogo
City Engineer and Corporate Leader
Environmental Protection and
Transportation



Helga Reidel
Chief Administrative Officer

JR/lp

APPENDICES:
SCHEDULE A – ARTICLE FROM ACCOLADES MAGAZINE “THE BASIN AND THE BEACH”

DEPARTMENTS/OTHERS CONSULTED:

Name:

Phone #: 519 ext.

NOTIFICATION :

Name	Address	Email Address	Telephone	FAX

The basin and the beach

WINDSOR CLEANS ITS RIVERFRONT

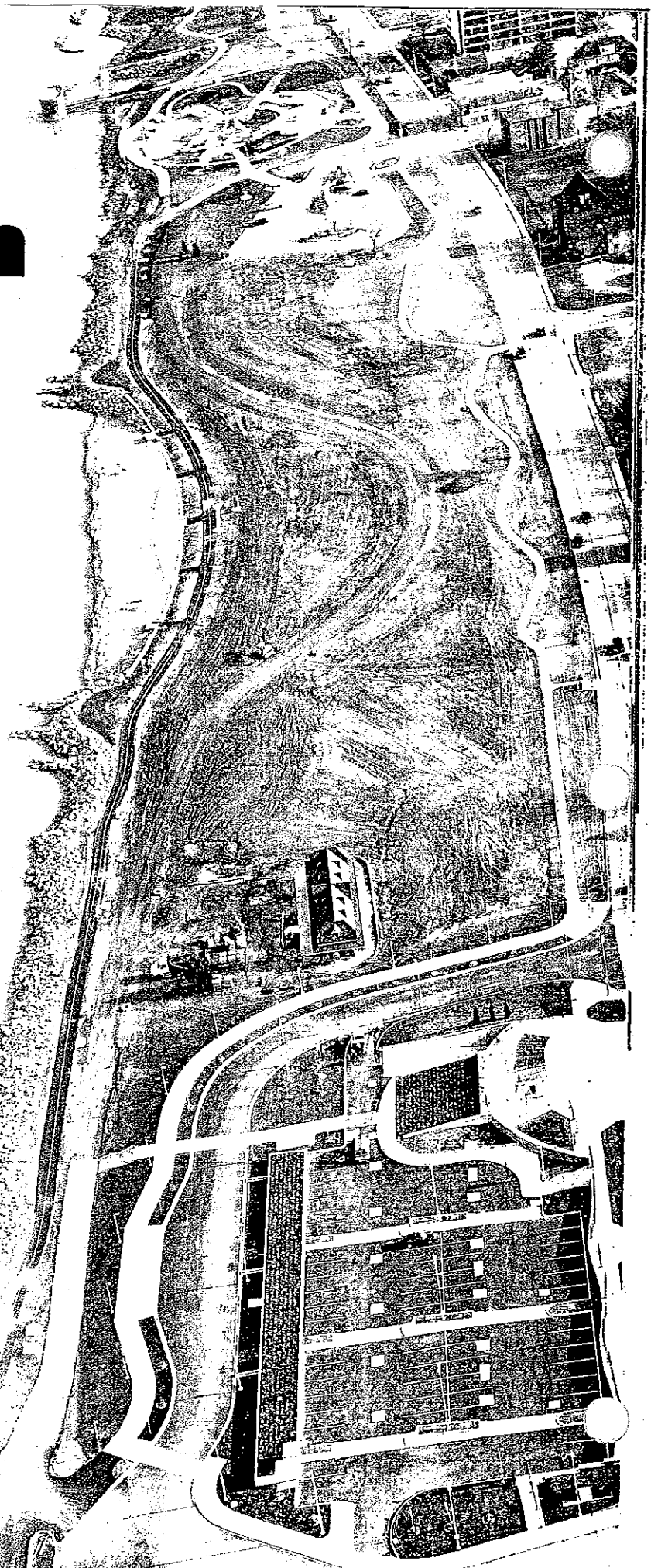
by Lindsay Grummett

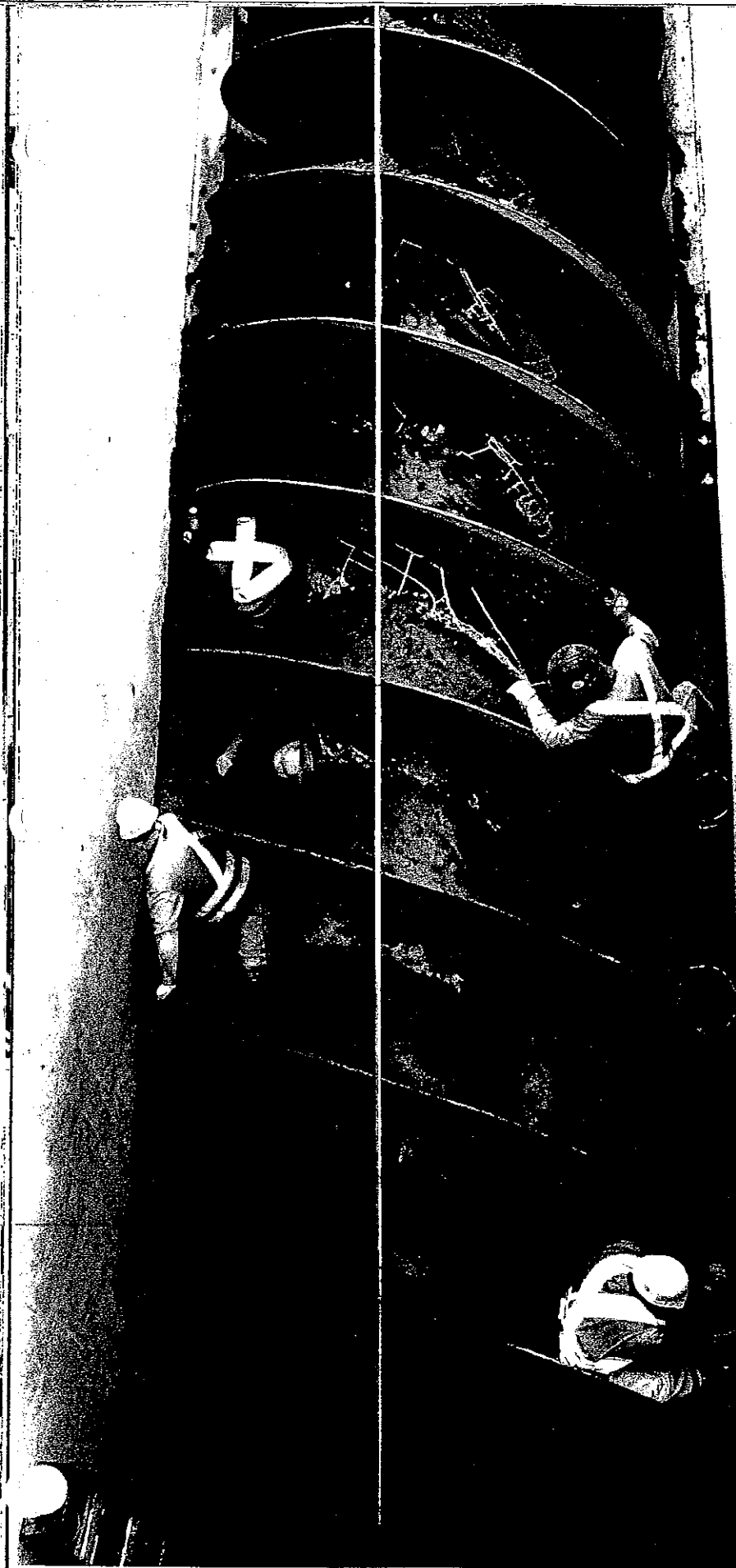
For more than 20 years, the City of Windsor has been searching for ways to reduce pollution in the Detroit River, which divides part of Canada and the United States. A 1992 study revealed that combined sewage overflows (CSOs) were one of the primary causes of pollution in that river.

In response, Windsor retained Stantec Consulting Ltd. to develop a pollution-control strategy, with an objective of reducing CSOs and total pollutants going into the Detroit River. In 2001, the company began designing updates and by 2011, Windsor was equipped with increased, pumping-and-sewage treatment capacity. But that was only part of the solution.

Stantec subsequently began working on a crucial part of the city's pollution-reduction plan – the Retention Treatment Basin (RTB), which works like a storage facility where excess wastewater sits rather than being discharged into the river. Preliminary studies revealed, however, that the RTB would have to be almost an acre in size. The city didn't have the space, so Stantec developed an alternative.

An aerial view of the completed RTB and shoreline improvements.





The project reduced costs for the city – easily \$50 million in savings.

“We developed a method called High Rate Retention Treatment,” explains Tony Berardi, Stantec engineer. “We’re able to use a chemical to precipitate the solids, and as a result, we’re able to shrink the RTB to a tenth of the original size that was envisioned.”

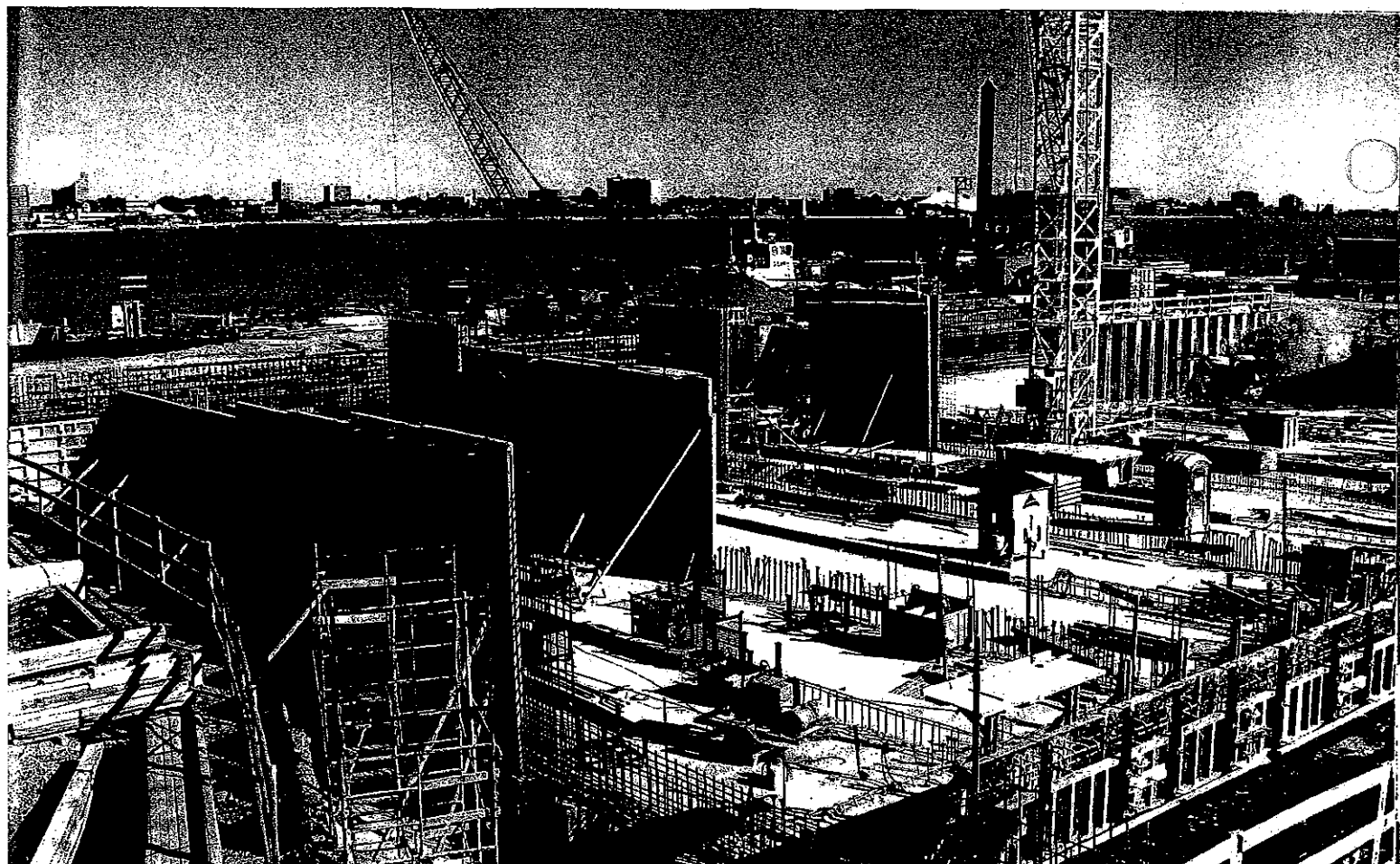
Stantec cooperated with the University of Windsor on a pilot project that looked at settling rates, operations and other processes. “We had to do the research and development,” says Berardi. The stakes were high with this project, Berardi says, as this was the first and largest High Rate RTB facility on the planet.

In the end, the project reduced costs for the city – easily \$50 million in savings – because contaminated wastewater could be treated with a chemical.

In addition to reducing costs and improving water quality, Stantec improved the Windsor riverfront by adding a beach in the downtown area.

CEO presented an *Award of Excellence* (for companies with 351+ employees) to Stantec’s project, which is an example of how innovative strategies can help the environment in Great Lakes communities. ☐

It’s a tight squeeze for workers constructing a screw pump trough liner.



Companies build walls for the Retention Treatment Basin.

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