



Vol. 20 No. 1

Update to Clients

Update

Hamilton Twp. calls on SAI for quick response for public need

An example of the value of having an independent environmental consultant available on-call was apparent when the Township of Hamilton was faced with a need to quickly collect samples for identification of potential asbestos contamination. The collection area was a neighborhood adjacent to the former W.R. Grace & Co. plant, where vermiculite ore was processed from 1948 to 1991. It has since been determined that the vermiculite contained asbestos.

Mayor Gilmore called on SAI after being made aware of a State Health Department hearing and report on the subject. SAI mobilized immediately to collect soil samples to assess the conditions throughout the neighborhood. This high profile case was responded to immediately and efforts for further action could be defined quickly.

SAI personnel provided their findings to the Township within a week, and later testified before a legislative committee hearing addressing the issue.

In addition, SAI is currently assisting the Township to evaluate the federal EPA's plan for an additional removal action at the site. Previously, in 2000, EPA began testing for contamination; positive findings for asbestos resulted in the removal of 9,000 tons of soil from the site at that time.

SAI: an Independent Environmental Consultant for Municipalities

SAI has been serving various municipalities in the capacity of an "independent" environmental consultant to help in an on-call basis with critical investigations and reviews. SAI has responded to provide knowledgeable reviews of plans and programs, ensuring a high level of objectivity. Because we work directly with the towns, we are sensitive to what's important to the people of the community. Our in-depth knowledge of environmental regulations allows us to assist municipalities in their efforts to provide a safe and environmentally attractive community.

Our local elected officials and appointed public employees are strongly committed to implementing programs and projects that are designed to provide a better quality of life for the people they serve. The "independent" environmental consultant is not in-

involved with review of development projects, does not represent developers working in the affected municipality, and can therefore focus objectively on critical environmental issues.

Many municipalities are looking to clean up and possibly reuse contaminated or otherwise underutilized sites. Understanding the best use, the most efficient remediation or the regulations which address these issues is often outside the expertise of town officials. Others are faced with an emergency which requires immediate attention. By developing a relationship with SAI, understanding our abilities and commitment to the town *before* an emergency occurs, we are available on an "on-call" basis to provide an independent assessment of a developer's plan, an engineers strategy or conservation goal with a clear understanding of the goals of the community.

An example of this type of effort can be seen in recent work undertaken for the City of Camden. Faced with public concern and potential exposure issues related to the construction of the NJ Transit Light Rail system, SAI was hired to provide oversight of the soil berm removal. The City became

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Rick Gimello joins SAI as Senior Vice President

Marwan M. Sadat, Ph.D., P.E., Chairman of the Board, and Joe Wiley, Chief Operating Officer, are pleased to announce that Richard J. Gimello of Langhorne, Pennsylvania, has joined SAI as Senior Vice President of the Science Division.



"As a senior manager with extensive experience in government and public relations, Rick will be a major asset to our firm," said Dr. Sadat.

See Gimello on page 3

In Memoriam

Sadat Associates joins with family and friends to mourn the untimely death of Tony Farro, son of Cathy and Tony Farro. Tony worked as an intern at SAI for several summers and holidays. His smile, solid work ethic and gentle nature will be missed by all of us.

INSIDE

In-situ chemical oxidation is one cleanup alternative. *see page 2*
 UST and soil removed for "Cleanup Star" project. *see page 3*
 Promoting the historic "Port of Trenton." *see page 4*

Independent

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concerned when it was determined that some of the soils used to build the berm were contaminated. NJ Transit agreed to remove the soil.

SAI was retained to provide oversight to make certain that all precautions were taken to protect the residents of the area. Knowing that SAI's concerns were identical to those of the City gave the elected officials and the residents a level of comfort that the remediation would be undertaken with strict controls to prevent contaminant migration.

Our experts can provide this independent and objective advice that protects the best interests of municipal and other government bodies.

If you believe your municipality might benefit from establishing this relationship before you have an emergency, please contact Susan Goetz at 609-826-9600.

Innovation provides solutions for complex soil and groundwater contamination project

SAI conducted an extensive alternatives analysis of in-situ remediation techniques for a site in a densely developed industrial park in North Jersey. The site, a former manufacturing facility, has wide-spread soil and groundwater contamination that extends over 30 feet below the ground surface and onto four different properties. Contaminants consist of mercury and petroleum hydrocarbons resulting from suspected releases at the facility over 30 years ago. Contaminant concentrations are 4-6 orders of magnitude above the cleanup standards. The depth of contamination, nature of contaminants, proximity of occupied buildings, and potential disposal costs preclude soil excavation as a remedial alternative. As a result, SAI's client sought a low-impact, in-situ remedial approach to meet the soil and groundwater cleanup criteria without affecting operations at the neighboring impacted properties.

SAI performed a detailed alternatives and cost analysis to aid the client in selecting a remedial approach. Soil vapor extraction and air sparging (SVE/AS) were evaluated along with more innovative technologies such as in-situ chemical oxidation (ISCO) and enhanced bioremediation. SAI developed preliminary

designs for each technology and consulted with contractors and vendors to determine innovative approaches for dealing with the site's complex geology. The client used SAI's analysis to select their desired remedial approach of SVE/AS and/or ISCO. Pilot and bench scale testing will be performed to determine the effectiveness of both approaches and final design parameters.

The alternatives analysis and proposed remedial approach were further developed into a Remedial Action Selection Report and Remedial Action Workplan and submitted to NJDEP at the end of the summer. The client is currently awaiting NJDEP's approval to begin pilot and bench scale testing.

This is a technically challenging project with high contaminant concentrations, a unique blend of organic and inorganic contaminants, and complicated geology, all of which create difficulties in designing an in-situ remedial approach. Using our in-house expertise and that of vendors and contractors, SAI was able to evaluate both accepted and innovative technologies to assist the client in selecting a remedial approach.

Canal Crossing Groundbreaking

Cleanup at former GAF Main Plant in S. Bound Brook nears completion, construction begins

Celebrating a Successful Project!

Attending the August 2 Canal Crossing groundbreaking ceremony were project team members and invited guests, including (from left): Frances Hoffman, NJ DCA; Joe Wiley, SAI COO; Ian Curtis, NJDEP Project Manager; Jo-Anne Schubert, former South Bound Brook Mayor; Sharon McSwieney, SAI Project Manager; Colin Driver, South Bound Brook Redevelopment Coordinator; Phyllis Bross, former NJ Deputy Attorney General; and David Fisher, Matzel & Mumford VP.



Senior Project Manager Suzanne Macaoay and **Vice President Sharon McSwieney** were both named *Cleanup Stars* by NJDEP (see *Cleanup Star* article on page 3).

Lisa McGhee, wife of **Brian McGhee**, SAI Vice President of Finance and Human Resources, ran in the New York City Marathon held on November 6—her time was 3:32:07. It was her eighth marathon overall, and the first one in New York. Congratulations Lisa!

Gimello joins SAI

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Mr. Gimello earned his Bachelor's Degree at Trenton State College and holds a Master's Degree in Public Policy from Rutgers University. He comes to the firm after a successful career in New Jersey's public sector, where he served as Executive Director of NJ Hazardous Waste Siting Commission, Assistant Commissioner of Site Remediation for NJDEP and most recently as Executive Director of Intermodal Services for NJDOT.

Mr. Gimello brings a wealth of practical experience and knowledge related to the State's major environmental statutes and policies, with particular experience in site remediation, brownfields development and dredge material management. As Assistant Commissioner for Site Remediation, Mr. Gimello's accomplishments included:

- Passage of the Brownfield and Contaminated Site Remediation Act.

- Creation of the Office of Dredging and Sediment Technology
- Establishment of a State Grant Program for Underground Storage Tank Clean-ups
- Creation of Clean-up standards for pesticide-contaminated soils

At SAI, his responsibilities will include:

- Providing strategic oversight to remedial projects
- Assisting Clients on complex permitting and regulatory matters
- Overseeing and managing the work of the Science Division
- Assisting clients in identifying brownfield project opportunities, as well as opportunities for port/intermodal transportation projects
- Assisting clients in dredge projects and beneficial use of dredge materials



SAI finishes two more Cleanup Star projects

Sadat Associates is pleased to announce that two new Cleanup Star projects prepared by SAI have been approved by the NJDEP. Under the Cleanup Star Program, low-risk sites can be managed by pre-certified individuals in the private sector.

In one of the projects, a previously-unknown underground storage tank was accidentally discovered during a Client's site development activities. A small amount of fuel oil discharged from the tank into the surrounding soil. SAI provided oversight for the removal of the tank and the contaminated soil, conducted post-excitation sampling and coordinated all laboratory, transport and disposal activities. The report was submitted to the NJDEP and the No Further Action was granted a quick eight business days later.

In the second effort, in order to secure a Client's Innocent Purchaser Protection, SAI reviewed documents prepared for a previous site remediation and prepared a Preliminary Assessment Report. The report was submitted to NJDEP along with an opinion of No Further Action (NFA). The NFA was subsequently issued by NJDEP.

For more information about the Cleanup Star Program, please contact Sharon McSwienny at 609-826-9600.

Project update: The Tides at Seaboard



The Tides at Seaboard Point, a K. Hovnanian luxury condominium development, is being built in North Wildwood and anticipates final sale of first units in early 2006. The site is a former landfill with soft organic soil deposits underlying the waste. SAI services for the project included geotechnical investigation/subsurface analysis, pile foundation design, settlement analysis and surcharge implementation, landfill capping and construction oversight.

Geotech assessment critical for project success

Geotechnical engineering provides critical information for constructing and designing building foundations which, if not designed appropriately for the site conditions, may settle and crack, or—in the worst case—fail. The goal of the geotechnical engineer is to provide the most economical design while being sure to provide appropriate support for the building. The typical sequence of geotechnical ser-

vices SAI provides starts with a field investigation (borings and/or test pits), soil sampling and testing for physical and mechanical properties, then analysis, and redommendations/design for retaining structures, foundations, and slope stability.

For information on SAI's geotechnical services contact Amira Fahim, Ph.D., P.E. at 609-826-9600.

At the suggestion of the City of Trenton, the Delaware Joint Toll Bridge Commission has donated to the Port of Trenton Museum Foundation the old "Trenton Makes" sign, which was replaced last summer. SAI COO **Joe Wiley** is a member of the Foundation's Board of Trustees (see **Group** on page 4). Initially, the Port Museum plans to fabricate stand-alone exhibits out of the sign's four "T's" and display them at locations throughout the area. The exhibits will describe the City's history as river-crossing point and transportation center.

Welcome!

Suna Cinar. Ms. Cinar has joined the firm as a member of the Engineering Group. She graduated from Lehigh University with a M.S. in Environmental Engineering in 2005. Ms. Cinar also holds a B.S. in Chemical Engineering from Yildiz Technical University and a M.S. in Environmental Sciences and Technology from Bagazici University, both in Istanbul, Turkey. She will be responsible for assisting with projects involving feasibility and environmental impact studies, remedial investigations, field investigations, environmental monitoring and data review and analysis as well as preparation of engineering reports.



Earns MBA

Engineering Project Manager **Rodney Chow** has earned his MBA from University of Maryland University College. Mr. Chow earned his Bachelor's degree in Bioresource Engineering from Rutgers in 1999, with a concentration in Bioenvironmental Engineering. Congratulations!

Looking to the future

Sadat employees gathered in September for an annual employee meeting to take stock of the firm's progress over the preceding year and discuss plans for the future growth of the company.

Founder Marwan Sadat addressed the employees and highlighted the major project accomplishments of the preceding year with particular emphasis on the exciting Brownfield redevelopment efforts. Joseph Wiley, Chief Operating Officer, discussed the company's new Mission/Vision Statement and provided an update on the progress the company has made in the transition to an employee-owned business. He also reaffirmed that key to Sadat's success and reputation is the creativity and vision of each of its employees. Every employee was then individually recognized for his/her contributions and accomplishments over the past year.

Following a company meeting to discuss accomplishments of the previous year and plans and goals



Sadat employees enjoyed a picnic by the river in September after the firm's annual meeting.

for the future, employees were treated to a cookout and party out the backdoor along the banks of the Delaware River. SAI moved to its Trenton location in 2003 and has enjoyed the ever changing environment provided by this ecological treasure. While the bald eagle and the Beluga whale failed to make an appearance at the picnic, SAI employees enjoyed great food cooked by our skilled chefs, and enjoyable times with co-workers.

Group promotes Trenton port's history

Earlier this year the Port of Trenton Museum Foundation appointed Joe Wiley, SAI COO, to its Board of Trustees. The foundation is a non-profit organization whose purpose is to promote a greater understanding of the history and importance of the Trenton waterfront, and the connection between Trenton and the Delaware River.

The Foundation is in the process of working out arrangements with the City of Trenton to renovate the "Delaware Inn," a historic structure on

Lamberton Street overlooking the river, to become a museum. Joe has served as advisor to Friends of the Locktown Stone Church in Hunterdon County, a group that he assisted in planning and implementing historic structure renovations over a 15-year period.

The group's annual Celebrity Chef Cookoff dinner was held at the Trenton Marriott in October, where SAI Founder Marwan Sadat was one of the celebrity chefs. His cooking meets or exceeds with his other skills.

From the Editor -

EDITOR: KATE KANE
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Thanks — we look forward to hearing from you.