



**Mulvaney**  
MECHANICAL, INC.

MECHANICAL CONTRACTORS

4th Qtr Oct - Dec 2003

# The Mulvaney Pipeline



## OZONE Work Zone



## History's Famous and Infamous Plumbers...

Have you ever wondered why the air smells so fresh and clean after a thunderstorm? Nature produces ozone with the electrical discharge of lightning during a thunderstorm thereby "cleaning" the air of pollutants. This ozone cleaning is further enhanced by the washing action of the falling rain and is facilitated by the release of essential plant oils and fragrances.

Despite ozone's "discovery" in 1840, little is known or written about this mystery gas. We have all heard about the ozone layer and its present state of decline. However, few understand the powerful characteristics and uses this material has here at ground level. One of the major benefits of ozone is its tremendous ability to oxidize substances. It is thousands of times faster than chlorine and disinfects three to four times more efficiently. Yet, like most things in nature, there is danger in excess.

The problem is ozone wants to oxidize everything. Accordingly, excessive exposure can irritate people's lungs, eyes and skin. Just as fire oxidizes organic matter and changes one substance to another substance, ozone will destroy a molecule through oxidation. Certainly, there is no doubt concerning its ability to oxidize organic substances, sterilize air, and destroy toxic fumes, bacteria, algae, fungus, mildew, mold and odor.

Industries have been using ozone successfully for many years in a wide range of applications, including food processing and preservation, smoke stack emission control, odor control, smoke damage restoration, beverage processing, swimming pools, algae removal in ponds, and spa purification. In recent years, ozone's benefits also have been realized in the wastewater treatment business. Used properly and with caution, ozone treatment can be a powerful treatment for many air and water applications.

**LON CHANEY JR** was absolutely forbidden by his father to enter show business, preferring instead his son take on a more practical profession. The young Chaney was trained to be a plumber, becoming an actor only after his father's death.  
**OZZIE OSBORNE** was born into poverty and a very crowded house. Arguments between Ozzy's parents about their financial situation prompted him to become a plumber's assistant at the age of 15.  
**MICHAEL FLATLEY**, "Lord of the Dance", was born in Chicago, the son of a plumber. He followed his father into the business, before becoming the millionaire "foot flailing" Irish dance star of River Dance.  
**JOE COCKER**, one of rock and roll's enduring performers is known for his gutsy, gravelly, vocal style. Joe started out in the mid-sixties working as a plumber.  
**MICHAEL CAINE**, after leaving school at 16, spent his working days as a plumber's assistant whilst studying acting in the evening.  
**ROSCOE "FATTY" ARBUCKLE**, a comic genius from the golden age of the silent cinema, was working as an overweight plumber in 1913 when he was discovered.  
**LEE MARVIN**, served overseas in the Marine Corps during the WWII before returning to the U.S. where he began working as a plumber's apprentice in New York City.  
**J.L. SULLIVAN** is recognized as the first heavyweight boxing champion of the world. He at first attempted to learn a trade as an apprentice plumber. Having failed at that, he entered the boxing profession.

### and the infamous ...

**ALBERT DESALVO**, AKA *The Boston Strangler*, was the son of a plumber who became a plumber himself. DeSalvo was arrested for the sexual assault and murder of at least a dozen women in 1964.  
**CHARLES ARTHUR FLOYD**, alias *"Pretty Boy"*, participated in the Kansas City Massacre in 1933 where 4 police officers were killed. Charlie was sent to prison, where he worked as a plumber's assistant.  
**G. GORDON LIDDY**, *"The Plumber"*, was a former FBI agent who helped plan the Nixon's Watergate break-in. Mr Liddy's ultra-conservative nature has made him the most infamous "plumber" of all time.



## What's Goin' On?

- Oct 19<sup>th</sup> - Oct 21<sup>st</sup> Facilities America 2003 Conference, Dallas TX  
Association for Facilities Engineering
- Oct 21<sup>st</sup> - Oct 24<sup>th</sup> 2003 NEHS Fall Conference, Newport RI  
New England Healthcare Engineers
- Oct 22<sup>nd</sup> - Oct 24<sup>th</sup> 2003 NAEM 11<sup>th</sup> Annual FORUM, Baltimore, MD  
National Association for Environmental Management
- Oct 31<sup>st</sup> - Nov 2<sup>nd</sup> ASPE 2003 Technical Symposium, San Antonio TX  
American Society of Plumbing Engineers
- Dec 7<sup>th</sup> - Dec 10<sup>th</sup> 2003 HARDI Annual Conference, San Francisco CA  
Heating, AC & Refrigeration Distributors International
- Jan 26<sup>th</sup> - Jan 28<sup>th</sup> 2004 AHR International Show, Anaheim CA  
International AC, Heating and Refrigeration Exposition

## You could WIN! DINNER for TWO

Unscramble the following letters into the correct word or phrase and

**P H R A E A W P N Y E Y**

**WIN Dinner for Two.** Just e-mail or FAX in your submission to our office. If more than one correct entry is received, a winner will be selected at random.

The answer to the "Riddle" from last time was **"INKSTAND"**

We received 7 correct responses.

- Diane Baker - Hines
- Jocelyn Beaudin - Coldwell Banker CCS
- Al DiVincentis - Garcia & Milas, P.C.
- Bel Forte - Charles Beckman Swanson Architects
- Art Sanders - Hoffmann Architects
- Susan Stout - CT Pipefitters 777
- Sapienza Family - Sapienza & Lessig

A final winner will be selected at random.



## WATER TUNNEL #3

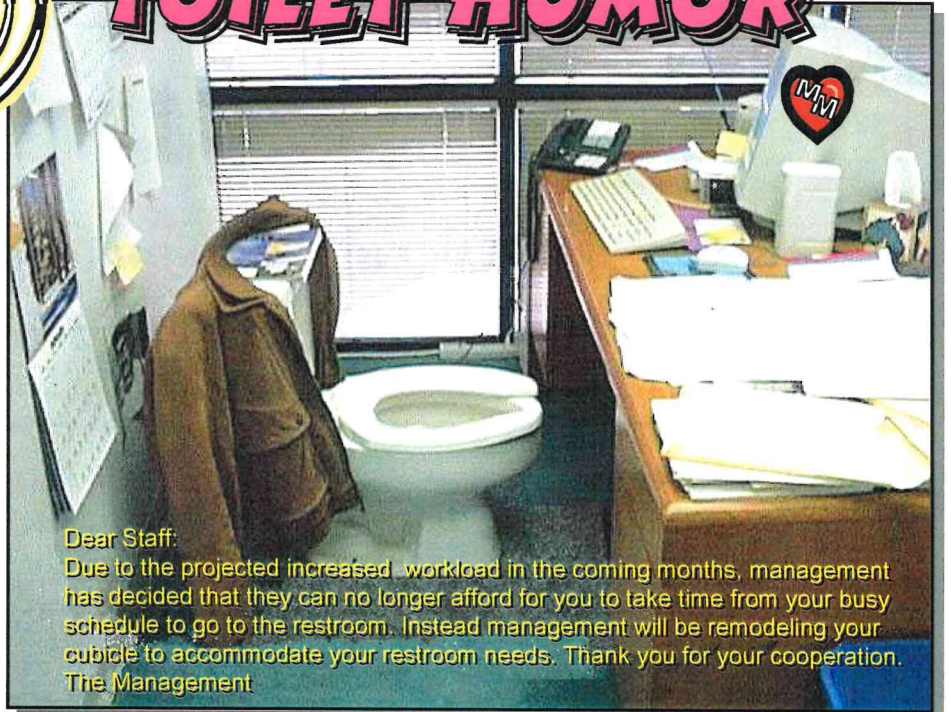
In 1954, New York City recognized the need for a third water tunnel to meet the growing demand on the more than 150-year old water supply system. Planning for City Tunnel No. 3 began in the early 1960's and actual construction commenced nearly a decade later in 1970.

City Tunnel No. 3 is one of the most complex and intricate engineering projects in the world today.

The portion of the tunnel 3 activated in late 1998, is constructed in bedrock 250 to 800 feet below the surface and runs 13 miles beginning at Hillview Reservoir in Yonkers. It extends across Central Park to 5th Avenue and 78th Street, then stretches eastward under the East River and Roosevelt Island, into Astoria, Queens. Operation of this new pipeline will allow inspection and repair to take place on City Tunnels No. 1 or 2 for the first time since they were put into operation back in 1917 and 1936, respectively. Tunnel No. 1 was designed with a 15 foot maximum diameter, while Tunnel No. 2 was built with a 17 foot diameter. In comparison, Tunnel No. 3 has a maximum diameter of 23 feet. The city of New York uses an average of 1.3 billion gallons of water a day, or 180 gallons per capita.

Since 1970, when construction on the tunnel began, a total of 24 people have died in construction-related accidents. This 50 year long construction project is expected to be completed in 2020. It is the largest capital construction effort ever undertaken in the state of New York, spanning over 60 miles in total length.

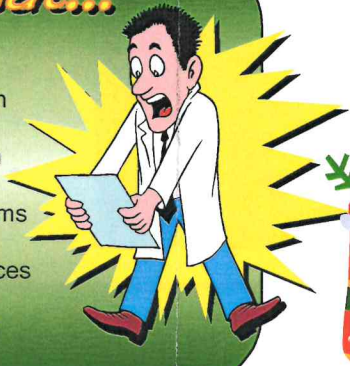
## TOILET HUMOR



Dear Staff:  
Due to the projected increased workload in the coming months, management has decided that they can no longer afford for you to take time from your busy schedule to go to the restroom. Instead management will be remodeling your cubicle to accommodate your restroom needs. Thank you for your cooperation.  
The Management

## I'll bet you didn't know that...

- Today the average adult receives more information in one month, than their grandparents did during their entire lifetime.
- During an average lifetime, Americans will write 15,224 checks with 152 of them bouncing.
- The average business executive spends over 60 hours per year on HOLD, while on the phone.
- 32% of all burglars currently in prison say they looked at their victims family photo albums when robbing them.
- By far, the number one profession that uses computer dating services the most is teachers.
- 50% of loans made to a "family member" are never repaid. 75% of those made to a "friend" are also never paid back.



**Happy Holiday Season to All**  
from the entire staff at  
**Mulvaney Mechanical**

www.MulvaneyMechanical.com



**MM Mulvaney**  
MECHANICAL, INC.

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4 West Kenosia Avenue

Danbury, Connecticut 06810

203-797-8005 - 845-278-8813

fax 203-794-1786

e-mail: mulvaney@mulvaneyinc.com