



December 17, 2008

Peoples Gas – Streeterville  
File C3

Naren Prasad  
The Peoples Gas Light and Coke Company  
130 East Randolph Drive, 22nd Floor  
Chicago, Illinois 60601

Re: Radiation Monitoring – 630 N. McClurg Court, Chicago

Dear Mr. Prasad:

Pursuant to conditions specified in the excavation permit with the City of Chicago, radiation monitoring was performed at the above referenced site. Burns & McDonnell contracted with T N & Associates, Inc. (TN&A) to conduct the radiation monitoring during the excavation activities for disconnection of gas service. These activities occurred November 26, 2008.

The instrument used by TN&A to conduct the radiological survey was a Ludlum 2221 scaler/ratemeter with a Ludlum 44-10 probe. The 44-10 probe is a 2"x 2" Sodium Iodide (NaI) probe which is recommended by US Environmental Protection Agency (US EPA) to measure the total gamma and beta radiation contamination or radioactivity. The Ludlum 2221 instrument used during the survey was calibrated on July 29, 2008. The 44-10 probe was calibrated on June 6, 2008 by Durateck Instrument Services with a known source and had a calibrated conversion factor of 1 micro Roentgen per hour ( $\mu\text{R/hr}$ ) for every 909.9 cpm.

Before activities began, TN&A conducted a background survey along the sidewalk and McClurg Court on November 26, 2008. This survey produced readings between 9.1 and 10.2  $\mu\text{R/hr}$ . TN&A selected a conservative area background value of 10.2  $\mu\text{R/hr}$ . Excavation activities lasted approximately 3 hours. Readings taken from excavated material ranged from 10.6 to 13.4  $\mu\text{R/hr}$ . After excavation, the opened sidewalk was scanned with readings ranging from 9.8 to 12.3  $\mu\text{R/hr}$ . Further details on the excavation activities are presented in the attached report.

All of the survey readings collected during the excavation activities were below two times the maximum background reading of 20.3  $\mu\text{R/hr}$ . Further details are presented in the TN&A report which is attached to this letter.

We appreciate the opportunity to continue to be of service to you. If you have any questions regarding this report, please call me at (630) 724-3282.

Sincerely,

Margaret Kelley, P.E.  
Senior Project Manager

Attachment

Cc: L. Milner, BMCD  
B. Murray, BMCD