

United States Environmental Protection Agency
Region V
POLLUTION REPORT

Date: Tuesday, July 31, 2007

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Subject: Peoples Gas 22nd Street Station Site
2200 South Racine Avenue, Chicago, IL
Latitude: 41.8514000
Longitude: -87.6561000

POLREP No.:	4	Site #:	B5FW
Reporting Period:	07/14/07 to 07/27/07	D.O. #:	Not Applicable
Start Date:	6/18/2007	Response Authority:	CERCLA
Mob Date:	6/18/2007	Response Type:	Time-Critical
Demob Date:		NPL Status:	Non NPL
Completion Date:		Incident Category:	Removal Action
CERCLIS ID #:	ILD982074767	Contract #	EP-S5-06-04
RCRIS ID #:			

Site Description

The 22nd Street Station Site (Site) is located at 2200 South Racine, Chicago, Cook County, Illinois, in a mixed residential, commercial, and industrial area. The site is bordered to the north by Cermak Road, to the east by an electrical substation owned by Commonwealth Edison (ComEd), and to the south by the South Branch of the Chicago River. The Site is approximately 7.2 acres in size and is occupied by ComEd.

The Site is a former manufactured gas plant (MGP) that operated as an MGP facility from approximately 1862 to 1958. The Site was initially developed by Peoples Gas to produce coal gas. In 1934 it was modified to produce carbureted water gas and oil gas. In 1944, two production sets were modified to produce reformed natural gas. Peoples Gas began leasing portions of the site to ComEd in 1931 and sold the last portion to ComEd in 1959. The MGP facility at the Site stopped operating in 1958 and the plant was entirely dismantled by 1960.

A preliminary assessment of the Site was conducted by Illinois Environmental Protection Agency (IEPA) in 1988. Peoples Gas performed site investigations between 2000 and 2002. A Remedial Objectives Report (ROR) was developed that recommended the removal of impacted material from several on-site locations.

Remediation activities, consisting of excavation and disposal of contaminated soils, were begun by Peoples Gas in April 2006 under the IEPA Site Remediation Program. Peoples Gas is the potentially responsible party (PRP) for this site. The PRP contractor remediating the Site is Burns & McDonnell Engineering Company, Inc. (BMcD) along with their subcontractors.

Site activities by the PRP include excavation to depths ranging from 3 feet to 30 feet below ground surface (bgs). Other site activities by the PRP include daily air monitoring, continuous 24-hour perimeter air monitoring and sampling, confirmation soil sampling, and water treatment and discharge to Metropolitan Water Reclamation District (MWRD) sanitary sewer.

Site features at the 22nd Street Station include active utility lines that must be supported during excavation work. One area of the site is considered a High Risk Evolution (HRE) area by ComEd. ComEd has placed restrictions on excavation in this area.

Prior to the U.S. EPA oversight at the Site, BMcD excavated impacted material in the east gas holder (to a depth of approximately 20 feet bgs) and portions of the former Throop's Canal (to a depth of

approximately 30 feet bgs). Please see the BMcD map of excavation areas under "documents" on OSC website. An Administrative Order on Consent was signed by Peoples Gas in early June 2007, prompting the U.S. Environmental Protection Agency (U.S. EPA) to begin PRP oversight activities at the Site.

On June 12, 2007, a kick-off meeting was held at the 22nd Street Site between U.S. EPA, START, Peoples Gas, and BMcD, to discuss future oversight activities, documents required, and logistics for transmitting data and documents. The meeting addressed three MGP sites that U.S. EPA would be overseeing that are located within one mile of each other: 22nd Street Station, Hough Place, and Pitney Court. Note that one START member is to cover oversight of these three sites and will rotate to a different site each day. Both Hough Place and Pitney Court remediations are expected to be completed by end of 2007 while the 22nd Street Station Site remediation is expected to be completed by the end of 2008.

On June 18, 2007, U.S. EPA began PRP oversight activities at the three Peoples Gas MGP sites: Hough Place Station, Pitney Court, and 22nd Street Station. The U.S. EPA Superfund Technical and Response Team (START) contractor is performing PRP oversight during the removal activities at the sites. As part of the removal activities, START collects or observes the collection of confirmation samples of soil to confirm that the PRP cleanup objectives are being met. Samples are being collected to identify the potential presence of the following site contaminants of concern:

- Benzene, toluene, ethylbenzene, and xylenes (BTEX);
- Polynuclear aromatic hydrocarbons (PAH);
- Synthetic precipitation leaching procedure (SPLP) lead, manganese, and selenium;
- Carbon disulfide [a volatile organic compound (VOC)];
- 2-Methylnaphthalene and 4-chloroaniline [semivolatile organic compounds (SVOC)]; and
- Total lead, manganese, and selenium.

Soil cleanup objectives for the 22nd Street Station Site are IEPA TACO Tier 1 industrial/commercial and construction worker standards for soil ingestion and inhalation, Tier 1 or Tier 2 soil migration to groundwater, and a non-TACO Tier 1 remediation objective for 2-methylnaphthalene.

START also collects or observes the collection of confirmation samples of treated water to be discharged to a MWRD sanitary sewer. Water samples confirm that the MWRD treatment objectives are being met. Samples are being collected to identify the potential presence of the following site contaminants of concern:

- Target Compound List (TCL) VOC;
- PAH; and
- Target Analyte List (TAL) Metals.

Treated water objectives for the 22nd Street Station Site are established by MWRD in the discharge permit issued for the site.

Current Activities

During the reporting period, the PRP excavated and sampled cell 2 in Area R2, and re-excavated and re-sampled the south wall of Area R2 (see BMcD map of excavation areas under "documents" on OSC website). The PRP also collected the monthly water treatment sample. In addition, the PRP prepared the site for limited access and activity during a neighborhood festival scheduled for July 25-30, 2007. During the festival, no soil was excavated or transported offsite, but air monitoring was performed.

A summary of the activities performed during the reporting period by BMcD are as follows:

- Transported 233 loads to CID Landfill in Calumet City, Illinois; all trucks decontaminated prior to leaving site
- Performed perimeter air sampling and air monitoring on a continuous basis (24-hour air samples and air monitoring is conducted around the perimeter)
- Performed health and safety air monitoring during site activities
- Performed street sweeping activities on Racine Street
- Performed daily de-watering activities in excavation area
- Performed water treatment
- Discharged 64,500 gallons of treated water to the MWRD sanitary sewer
- Collected confirmation soil samples from the south sidewall of Areas R2 and from the floor of Area R2 cell 2
- Continued excavation north of Area R2 cell 2 and the area around the former oil tank and backfilled

completed portions of Area R2 and Area S

- Collected confirmation water samples from the sampling port of the water treatment system

BMcD also sampled removed pipe for PCBs; the results have not been reported yet. BMcD previously sampled a section of removed pipe for asbestos-containing pipe wrap; the results were negative for asbestos.

Analytical results for a previous sampling event were received and evaluated by START. On July 11, 2007, START personnel collected 1 confirmation sample each of the floors (Area R2 floor cell 1 and Area S floor cell 1) and south walls of Area R2 and Area S, along with BMcD. The samples were analyzed for VOCs, SVOCs, PAHs, and total and SPLP metals. Results for Area S floor cell 1, Area S south wall, and Area R2 floor cell 1 were below the PRP cleanup levels as stated in the Remedial Action Plan (RAP). However, results for Area R2 south wall did not meet the PRP cleanup levels for PAH.

To address the contamination present at the south sidewall of Area R2, BMcD excavated an additional 3 feet from the face of the south wall. On July 16, 2007, START personnel collected 1 confirmation sample of the south sidewall of Area R2, along with BMcD. The samples were analyzed for VOCs, SVOCs, PAHs, and total and SPLP metals. Results for the second sample of Area R2 south wall were below the PRP cleanup levels as stated in the RAP.

On July 17, 2007, START personnel collected 1 confirmation sample of the floor of the Area R2 cell 2 (north adjacent to Area R2 cell 1), along with BMcD. The samples were analyzed for VOCs, SVOCs, PAHs, and total and SPLP metals. Results for Area R2 floor cell 2 were below the PRP cleanup levels as stated in the RAP.

On July 24, 2007, START personnel observed as BMcD collected confirmation samples of treated water to be discharged to a MWRD sanitary sewer. Results for the water sample have not yet been reported.

Planned Removal Actions

Planned removal actions at the 22nd Street Station Site are as follows:

- Excavate soil per the Remedial Action Plan (RAP)
- Transport excavated soil to CID Landfill for disposal
- De-water excavation areas
- Treat water from de-watering activities and discharge to MWRD sanitary sewer

Next Steps

The next steps to be carried out by the PRP are as follows:

- Prepare to continue remedial activities after a neighborhood festival scheduled for July 25-30, 2007
- Continue excavation of Area R2 and Area S
- Continue to de-water excavation areas as required
- Treat water from excavation areas and discharge treated water to MWRD sanitary sewer
- Continue 24-hour perimeter air monitoring and sampling
- Continue air monitoring in work zones
- Continue street sweeping activities on Racine Street
- Continue to decontaminate trucks prior to trucks leaving site
- Collect confirmation samples of Area R2 and Area S cells, when excavation complete
- Backfill Areas R2 and S with clean fill when confirmation results are received

Key Issues

None.

Estimated Costs *

	Budgeted	Total To Date	Remaining	% Remaining
Extramural Costs				
RST/START	\$50,000.00	\$15,242.78	\$34,757.22	69.51%
Intramural Costs				
Total Site Costs	\$50,000.00	\$15,242.78	\$34,757.22	69.51%

* The above accounting of expenditures is an estimate based on figures known to the OSC at the time this report was written. The OSC does not necessarily receive specific figures on final payments made to any contractor(s). Other financial data which the OSC must rely upon may not be entirely up-to-date. The cost accounting provided in this report does not necessarily represent an exact monetary figure which the government may include in any claim for cost recovery.

response.epa.gov/22ndStreet

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