

**NEW YORK
STATE
DEPARTMENT OF
ENVIRONMENTAL
CONSERVATION**

Dear Interested Citizen:

This fact sheet provides an update on activities at this site. If you have any questions or would like further information, please contact:

Mr. Amen Omorogbe
Project Manager
NYSDEC
625 Broadway
Albany, NY 12233-7017
(518) 402-9662

or

For information on site related activities, you can contact KeySpan:
Ms. Belinda Pagdanganan
Bay Shore Site Hotline
(516) 545-3839

For site related health questions, contact the New York State Department of Health (NYSDOH) staff.

Ms. Wendy Kuehner
NYSDOH
Flanigan Square
Room 300
547 River Street
Troy, NY 12180
(800)-458-1158 ext. 27880

Press inquiries may be made to the appropriate press offices of the New York State agencies or KeySpan.

FACT SHEET

January 2003

Final Remedial Investigation Report and Interim Remedial Measures Bay Shore Former Manufactured Gas Plant (MGP) Site

Index No: D1-0002-98-11

Public Meeting to be held on January 29, 2003

**7:30 PM
Bay Shore High School
155 Third Avenue
Bay Shore, New York**

KeySpan Corporation, together with the New York State Department of Environmental Conservation (NYSDEC) and the New York State Department of Health, have completed a remedial investigation, qualitative human exposure assessment and fish & wildlife resources impact analysis related to the Bay Shore former MGP site located in the Village of Bay Shore and the Village of Brightwaters, New York. The Investigation was undertaken under a voluntary order on consent between KeySpan and the NYSDEC in August 1998. The final remedial investigation report has been placed in the document repositories for this site (see list on next page), and will be the subject of a public meeting on January 29, 2003 at 7:30 PM at the Bay Shore High School located at 155 Third Avenue Bay Shore, New York. This Fact Sheet summarizes the Report and the Interim Remedial Measures already or currently being undertaken to address the environmental conditions associated with the site.

History:

The approximately 10 acre site – bordered by the Long Island Rail road tracks, Fifth Avenue and Orinoco Drive – opened as a gas manufacturing plant in 1889, with LILCO becoming the legal owner in 1918. Gas manufacturing continued on the site until 1973, when the plant was demolished. KeySpan was formed in 1998 through the merger of LILCO and Brooklyn Union Gas Company and became responsible for the site. There are two portions to the site, gas manufacturing on the portion of the site located in the Village of Bay Shore, and support operations on the portion located in the Village of Brightwaters.

Six investigations of the environmental conditions related to the site were conducted prior to this remedial investigation. The previous investigations determined that chemical constituents associated with MGP operations were present in soil and groundwater on-site and that there were two separate groundwater plumes emanating from the site, one originating from the Bay Shore portion, one from the Brightwaters portion.

(continued overleaf)

Document Repositories:

Bay Shore/Brightwaters Public Library

1 South Country Road
Brightwaters New York

Repository is open during
normal library hours.

NYSDEC Region 1 Office SUNY-Stonybrook Stony Brook, NY 11790

Contact: Mr. Walter Parish

(631) 444-0241
Hours: M-F: 9-5 (by
appointment)

Chemicals of Concern:

The investigation has shown the presence of contaminants typically associated with MGP operations. These contaminants are in two categories: BTEX compounds and polycyclic aromatic hydrocarbons (PAHs). BTEX compounds are benzene, toluene, ethylbenzene and xylene. They are volatile hydrocarbons found in most petroleum products such as gasoline, are less dense than water and form sheens on top of water. PAHs are made up of several semi-volatile compounds also found in many petroleum products, such as fuel oil and asphalt. They tend to be denser than water and are not readily dissolved or broken down in the environment. BTEX and PAHs are most often found in a mixture known as coal tar (also known as dense non-aqueous phase liquid, or DNAPL due to its ability to sink in water and the fact that it does not easily mix with water). It is a dark, viscous fluid with a distinct unpleasant odor.

Summary of Findings:

The site exhibits characteristics expected of a former MGP site, with contaminants in the site subsurface soils and in the groundwater that runs underground south of the site in the two plumes. The key findings are:

1. The site exhibits chemical constituents in soil and groundwater on-site and to the south or downgradient of the site. These chemical contaminants are primarily attributable to the former MGP at the site.
2. There are two separate groundwater contamination plumes. One, originating from the Bay Shore site, migrates south from the site and enters the upper end of Lawrence Creek. The other plume originates from the Brightwaters Yard and discharges into O-Co-Nee Pond (see Figure 1).
3. There are no findings that chemicals from the site have affected drinking water supplies for the community.
4. There are pathways through which people on the site and in the community could be exposed to hazardous materials related to the site. However, no immediate hazards were found. KeySpan has already instituted, under NYSDEC supervision, some interim remedial measures (IRMs) to reduce the risks of exposure (see below).
5. There are pathways through which fish and wildlife could be exposed to materials associated with the site; however, because of the urbanization of the community and transient nature of the wildlife, specific actions directed at fish and wildlife exposure are not expected.

Interim Remedial Measures:

KeySpan has already undertaken a number of interim remedial measures to reduce the risk of exposure to chemicals associated with the former MGP operations. Reports on completed IRMs are in the document repositories, as are work plans for those now being undertaken. These IRMs include:

1. A "cut and plug" of piping and other conduits that could facilitate migration of wastes off the site.
2. The removal of underground storage tanks (UST) and remediation of contaminated soils on the Brightwaters side of the site.
3. The removal of debris and sediments in portions of Watchogue Creek/Crum's Brook and restoration of the creek.
4. The initiation of the treatment of the plume from the Brightwaters portion of the site with a dissolved oxygen system.
5. An IRM in a portion of the Brightwaters Yard to mitigate source area contamination associated with the Brightwaters Yard groundwater plume. A remedial process that includes injection of oxidation reagents was utilized to treat in-place, the source area.

Additional IRMs are under development as well as a remedial action plan that will include long-term actions and any required controls.

Next Steps:

For ease of site management, the project has been divided into four separate areas or operating units (OUs) as shown on Figure 1. The OUs include the following:

- OU-1 is the portion of the actual site in Bay Shore and an area between the LIRR tracks and Union Blvd. immediately south of the site (roughly between Clinton Avenue and Fifth Avenue).
- OU-2 is entirely off-site and includes the area through which the plume of groundwater from the Bay Shore site flows, approximately ½ block east and west of Clinton Avenue to Montauk highway, then bending westward to Lawrence Creek.
- OU-3 is the Brightwaters Yard area of the site and the narrow plume path crossing Lanier Lane and Cooper Lane to O-Co-Nee Pond.
- OU-4 is east of the main site, mostly under the LIRR parking lot and Watchogue Creek (between Union Boulevard and Mechanicsville Road).

Remedial measures have already begun as IRMs, on on-site and off-site portions of OU-3. Implementation and monitoring of these measures are continual, and an interim report on the effectiveness of the treatment will be available in Spring 2003 after NYSDEC review. IRMs are also being developed for implementation to begin this year in OU-2 and OU-4.

Under the order on consent, KeySpan is developing a remedial action plan (RAP), which will provide a comprehensive remedy to address the site and affected off-site areas. Under an agreement with the NYSDEC, KeySpan and its consultants will submit a report evaluating remedial alternatives and the RAP for NYSDEC review later this year.



Figure 1

Public Meeting:

The public meeting to present and discuss the Final Remedial Investigation Report is scheduled for 7:30 PM on Wednesday, January 29, 2003. The meeting will be held at the Bay Shore High School located at 155 Third Avenue Bay Shore, New York. Representatives of the NYSDEC, the New York State Department of Health and KeySpan are expected to make presentations and respond to public questions and comments. Representatives of other state and local agencies may also be present to discuss the issues and respond to public questions and comments.



Community Development
175 East Old Country Road
Hicksville, NY 11801

Hotline: 516 545 3839

***Important News Inside....
about Public Meeting
January 29, 2003***