



**Public Availability
Session on
Remedial Activities**

**Tuesday,
September 25, 2007**

**from 7:00 - 9:00 p.m.
at**

**Bay Shore High School
Large Cafeteria
155 Third Avenue
Bay Shore, NY 11706
(631) 968-1157**

The purpose of this session is to provide the public an opportunity to ask questions about any aspect of the remedial activities at the site.

For meeting Information:

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Bay Shore MGP Website
www.bayshoreworksmgp.com

FACT SHEET

Bay Shore Former MGP Site
Site No. 1-52-172
September 25, 2007

Public Availability Session Scheduled for September 25, 2007.

Session Will allow the Public to Discuss the Progress of Remedial Activities at the Former Bay Shore Manufactured Gas Plant Site with State, Local and National Grid Representatives.

The New York State Department of Environmental Conservation (NYSDEC) and the New York State Department of Health (NYSDOH) will hold a public availability session to update the public on the progress of the ongoing remedial program at the Bay Shore/Brightwaters former Manufactured Gas Plant (MGP) site. The session will give the public an opportunity to ask questions and provide their input to State representatives, as well as representatives from the Suffolk County Department of Health Services and National Grid. The format is intended to provide the public an opportunity to meet face-to face with any of the individual participants, and to discuss questions and concerns about any aspect of the investigation, design, or construction activities at the site.

Please Note: Due to the recent acquisition of KeySpan by National Grid, going forward reference will be made to National Grid rather than KeySpan

Site Description: The Former Bay Shore/Brightwaters Manufactured Gas Plant site is located in Bay Shore and the Village of Brightwaters, Suffolk County, New York. A manufactured gas plant operated at the site from 1889 to 1973. The plant has been demolished, but former plant structures as well as soil and groundwater contamination from MGP operations remain beneath the site, and have also migrated in the subsurface to surrounding areas.

This is a large, complex site, with impacts on the former site as well in off-site locations. To focus the remedial programs, the site has been organized into four separate operable units (OUs), as shown on the attached figure. The current status of the remedial program for each of these operable units, is as follows:

Operable Unit 1 - Main Site and Adjacent Off-site Areas north of Union Boulevard: The area defined by this OU is where most of the gas manufacturing and purification processes took place.

The remedy includes several components: soil excavation, coal tar recovery, installation of a barrier wall and in-situ chemical oxidation. The remedy was outlined in a Remedial Action Plan approved by the NYSDEC in August of 2005, and is being implemented in the four phases detailed below:

- Phase 1:** Removal of approximately 2,300 cubic yards of contaminated subsurface soil from a small area south of the Long Island Rail Road (LIRR) tracks. This work was completed in April of 2007.
- Phase 2:** Construction of approximately 700 linear feet of steel sheet pile wall along the southern portion of the site. The wall will act as barrier to migration of coal tar and will direct the contaminated groundwater through in-situ treatment zone. Following treatment, the water will continue its natural flow in a southeasterly direction. Over 98 percent of the sheet pile wall has been installed to date. The wall is projected to be completed by the end of September 2007.
- Phase 3:** Excavation and removal of approximately 40,000 cubic yards of heavily contaminated soil at the main site, north of the LIRR tracks. The excavation area is approximately 4 acres with soil removal ranging from about of 6 to 8 feet in shallow excavation to approximately 16 to 25 feet below grade in the areas of heaviest contamination. Site preparation tasks began in August and the major excavation activities are scheduled to begin in October.
- Phase 4:** Residual soil contamination not addressed by excavation will be treated in-place using chemical oxidation. In addition, a system of recovery wells will be installed during this phase to recover coal tar present at depth within the containment area. The collected tar will be sent for off-site treatment and disposal. Groundwater from within the containment area will be treated in-situ, using ozone with air injection, before being allowed to flow out through designed discharge locations in the containment wall.

Operable Unit 2 - Bay Shore Site Groundwater Plume: This OU represents the plume of contaminated groundwater which originates at the main plant site and moves approximately 3,800 feet to the south, before discharging to Lawrence Creek. Two lines of oxygen injection points have been in operation as a pilot test since December of 2005 to treat the contaminated groundwater. Preliminary evaluation indicates that this treatment appears to be effective. A more detailed evaluation of the technology to confirm the effectiveness is nearing completion, with a final report expected by the end of September. Following the State and local agencies' review of this report, a determination will be made of whether to expand the treatment system to include the entire length of the plume, in order to treat the contaminated groundwater more quickly and effectively.

Operable Unit 3 - Brightwaters Yard and Groundwater Plume: This portion of the site was the location of several tanks where oil feed stocks for the gas manufacturing process were stored. Leaks from these tanks contaminated the soil and groundwater. The contaminated groundwater moves south from the site to a discharge point at O-Co-Nee Pond. Several interim remedial measures (IRMs) have been completed on the site, including soil removal and two rounds of in-situ chemical oxidation which have addressed on-site soil and groundwater. However, some heavily contaminated soil has been identified beneath the adjacent LIRR tracks. The IRM remediation techniques have not been able to reach this contamination, therefore additional remedial options are being evaluated to identify an appropriate remedial approach to apply in this area. While a remedy for this source of groundwater contamination is being evaluated, an oxygen injection system, similar to the pilot test systems in OU2 has been in operation since the fall of 2000 to treat the contaminated groundwater plume.

Operable Unit 4 - Watchogue Creek/Crum's Brook: Some contaminated wastewater from the former MGP was discharged, via pipes installed along Oak Street, into a cesspool located at the western end of the current LIRR station parking lot. Overflow from the cesspool passed through a pipe beneath the LIRR tracks, spreading MGP contaminants to a small pond between the LIRR and Union Boulevard. Water and MGP contaminants from this pond then flowed into Watchogue Creek which runs parallel to Smith Avenue. Two separate IRMs have been conducted to date to address this problem. The first, completed in 2001, removed contaminated sediments from and restored a 1,400 foot reach of the Creek where MGP impacts were identified south of Union Boulevard. The second IRM was a soil removal at the former cesspool area, completed in 2005. Additional IRMs to remove soil and provide in-situ treatment by chemical oxidation at the cesspool and pond areas, respectively, are planned and will start once access to these areas is obtained.

Recent Developments Relative to all Operable Units: In addition, National Grid has conducted Soil Vapor Intrusion (SVI) investigations at a number of homes and businesses throughout the site related area, with most being in the vicinity of the OU-2 and OU-3 groundwater plumes. Based on the results from the samples collected by these investigations, no evidence has been found that MGP-related vapor contamination is entering structures. As a precautionary measure, additional SVI investigation is being planned. If you live within or near the plume and would like your home evaluated for potential SVI, please contact the National Grid representative identified below to arrange for an evaluation. Construction on the OU-1 portion of the remedy is progressing day by day. Weekly updates are provided on a website identified on the side bar of the first page of this notice. These progress updates will continue with the phase 3 construction and all subsequent activities.

Document Repositories: Two document repositories have been established to provide you with access to information about the site. All relevant documents including investigation reports and work plans associated with the site are available for public review at the locations identified below:

Bay Shore/Brightwaters
Public Library
1 South Country Road
Brightwaters, New York 11718
(613) 665-4350

NYSDEC Region 1 Office
SUNY - Stony Brook
Stony Brook, NY 11790
Contact: Mr. Walter Parish
(631)444-0241

For questions related to any aspect of the former manufactured gas plant site, please contact the following staff:

Project Related Issues:

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Health Related Concerns

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Troy, NY 12180-2216
(800) 458-1158 Ext. 27880
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National Grid's Representative:

Mr. James Christman
Telephone hotline: (516) 545-3839

For Questions about this Availability Session,

Please contact:

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