FACT SHEET

Manufactured Gas Plant Program

K – Patchogue MGP
234 West Main Street
Patchogue, NY 11772

SITE No. 152182
NYSDEC REGION 1

May 2019

Cleanup Action to Begin at the Patchogue Former MGP Site

The Remedial Action is about to begin that will address contamination related to the Patchogue Former Manufactured Gas Plant Site ("site") located at 234 West Main Street, Village of Patchogue, Town of Brookhaven, Suffolk County, New York under New York's Manufactured Gas Plant (MGP) Program. The cleanup activities will be performed by National Grid ("remedial party") with oversight provided by the New York State Department of Environmental Conservation (NYSDEC). Documents related to the cleanup of this site are available at the location(s) identified to the left under "Where to Find Information."

Remedial activities are expected to begin in June 2019, and last about 8 months. The estimated cost to implement the remedy is $6,500,000.

Highlights of the Upcoming Cleanup Activities: The goal of the cleanup action for the site is to achieve cleanup levels that protect public health and the environment. The key components of the remedy are:

1. Excavation/removal of the following:
   - Any existing former MGP structures (i.e., piping), debris, and subsurface obstructions (i.e., rail road), to allow for in-situ (in-place) treatment of underlying soils as noted below, and installation of a soil cover.
   - On-site fill materials to a depth of at least two feet below ground surface (bgs) over the entire Central/Core Area to allow for installation of a two-foot soil cover.
   - Soils in an area of approximately 40 feet long by 20 feet wide, located along the west-southwest portion of the on-site remedial area, to the depth of four feet bgs.
   - The excavations will be backfilled with clean stockpiled soils and/or certified imported clean soil, the top two-feet of which will meet restricted-residential criteria for backfill.
2. In-Situ (In-Place) Solidification (ISS) of Soil:
   - ISS of impacted soil will include areas of MGP-related source material and associated soil, with the deepest targeted treatment being approximately 23 bgs.
   - Solidified soils will be covered by a total of four feet of clean soil to protect from freeze-thaw cycles. The top two feet of the cover system will meet restricted-residential criteria and will be placed over a demarcation layer.

Where to Find Information:
Project documents are available at the following location(s) to help the public stay informed.

Patchogue-Medford Library
54-60 East Main Street
Patchogue, NY 11772
(631) 654-4700

NYSDEC Region 1 Headquarters
50 Circle Road
Stony Brook, NY 11790
By Appointment Only
(631) 444-0240

Project documents also are available on a website maintained by National Grid:
http://www.patchoguemgpsite.com/

Who to Contact:
Comments and questions are always welcome and should be directed as follows:

Project-Related Questions
William Wu, Project Manager
NYSDEC
625 Broadway Floor 11
Albany, NY 12233-7014
(518) 402-9662
william.wu@dec.ny.gov

Project-Related Health Questions
Jacquelyn Nealon
NYSDOH – BEEI
Empire State Plaza
Corning Tower Room 1787
Albany, NY 12237
(518) 402-7860
beei@health.ny.gov

For more information about New York's State MGP Program, visit:
http://www.dec.ny.gov/chemical/8430.html

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3. A site-specific health and safety plan (HASP), including a Community Air Monitoring Program (CAMP), will be implemented during all ground intrusive activities. The HASP and CAMP establish procedures to protect on-site workers and residents and include required air monitoring as well as dust and odor suppression measures.
4. Site Cover: Installation of a site cover to allow for restricted-residential use of the site. The site will be restored to its existing grade. Soil cover, or equivalent cover such as concrete or pavement, will be installed in areas where the upper two feet of exposed surface soil will exceed the applicable soil cleanup objectives (SCOs). The soil cover will be placed over a demarcation layer, with the upper six inches of the soil capable of supporting vegetation or consisting of pavement or concrete as noted above.
5. Institutional Controls: Imposition of an institutional control in the form of an environmental easement for the site that outlines the use restrictions for the property.
6. Site Management Plan: A Site Management Plan is required that identifies the use restrictions and engineering controls associated with the site to ensure the remedy remains in place and effective as designed.

Next Steps: After cleanup activities are completed, National Grid will prepare a Final Engineering Report (FER). The FER will describe the cleanup activities completed and certify that cleanup requirements identified in the Record of Decision have been achieved or will be achieved.

NYSDEC will keep the public informed throughout the cleanup of the site.

Site Description: The remedy will be implemented at the site located at 234 West Main Street and on the adjacent property located at 210 West Main Street. The adjacent property is hereafter referred to as the "off-site property".

The site is zoned for industrial use and is located in a mixed commercial and residential area. The site is currently undeveloped and vacant. The perimeter of the site is secured with a locked chain-link fence. The site is rectangular and encompasses approximately 3.6 acres. The site has relatively flat topography with a typical elevation of approximately five feet above mean sea level (msl).

The site is divided into three areas: Northern Area, Central/Core Area, and Southern Area. Please see the "Site Plan" figure on the last page to locate these three areas. The Northern Area comprises the narrow northern portion of the Site, bordered by West Main Street to the north, and ending approximately where the Site extends west. The off-site property is located to the east. The Central/Core Area is where the majority of the former MGP structures were located.

The off-site property is approximately 0.8-acres in size and is located at 210 West Main Street. It is bordered to the west by the Central/Core Area of the Site, to the east by the Patchogue River, and to the north by 206 West Main Street. It includes a two-story commercial/industrial building of approximately 12,000 square feet. The remainder of the off-site property is paved except for the narrow soil walkway east of the building.

Additional site details, including environmental and health assessment summaries, are available on NYSDEC's Environmental Site Remediation Database (by entering the Site ID, 152182) at:

http://www.dec.ny.gov/cfmx/extapps/derexternal/index.cfm?pageid=3

Project documents and information also are available on a website maintained by National Grid:

http://www.patchoguemgpsite.com/

Summary of the Investigation:

Former MGP operations resulted in the release of coal tar to the subsurface. Coal tar at the site is characterized as a non-aqueous phase liquid (NAPL). The tar is denser than water and thus is referred to as a Dense NAPL or DNAPL. The primary contaminants of concern in soil and groundwater are coal tar and its associated volatile organic compounds (VOCs) such as benzene, toluene, ethylbenzene and xylenes (BTEX) and semi-VOCs (SVOCs), such as polycyclic aromatic hydrocarbons (PAHs).Coal tar was observed at investigation locations generally corresponding with the former locations of MGP related structures located in the Central/Core Area.

Soil Quality

Analyses of subsurface soil samples obtained during the investigation activities indicate that elevated BTEX and PAH concentrations [i.e., concentrations in excess of the NYSDEC's SCOs for unrestricted use] in the soil are associated with intervals where NAPL was encountered.

Groundwater Quality

Some dissolved-phase BTEX and PAH compounds have been detected in groundwater at concentrations above the New York State Class GA Groundwater Quality Criteria at well locations

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within the Central/Core Area (e.g., MW-5 and MW-6). On occasion, traces of NAPL have been identified in these wells. This trend indicates that the BTEX and PAH compounds are undergoing natural attenuation and are minimally impacting groundwater at the site boundary. Groundwater monitoring is currently being performed on a quarterly basis.

We encourage you to share this fact sheet with neighbors and tenants, and/or post this fact sheet in a prominent area of your building for others to see.

About the Manufactured Gas Plant Program: NYSDEC has one of the most aggressive Manufactured Gas Plant (MGP) site investigation and remediation programs in the country. Since the problems associated with the former MGP sites were identified, NYSDEC has been working with all the utilities on a state-wide basis to identify and address the issue of MGP sites for which they may have responsibility. This effort has resulted in 220 sites identified for action by the eight utilities operating in New York State. Currently we have individual site or multi-site orders or agreements with all eight utilities, including National Grid, and several other individual site remedial parties, to address these MGP sites.

In addition, there are 28 MGP sites that NYS is addressing or evaluating for action under the MGP program. NYSDEC continues to seek to identify any other possible MGP sites throughout the State.

For more information about the NYSDEC's MGP Program, visit:
http://www.dec.ny.gov/chemical/8430.html

Receive Site Fact Sheets by Email

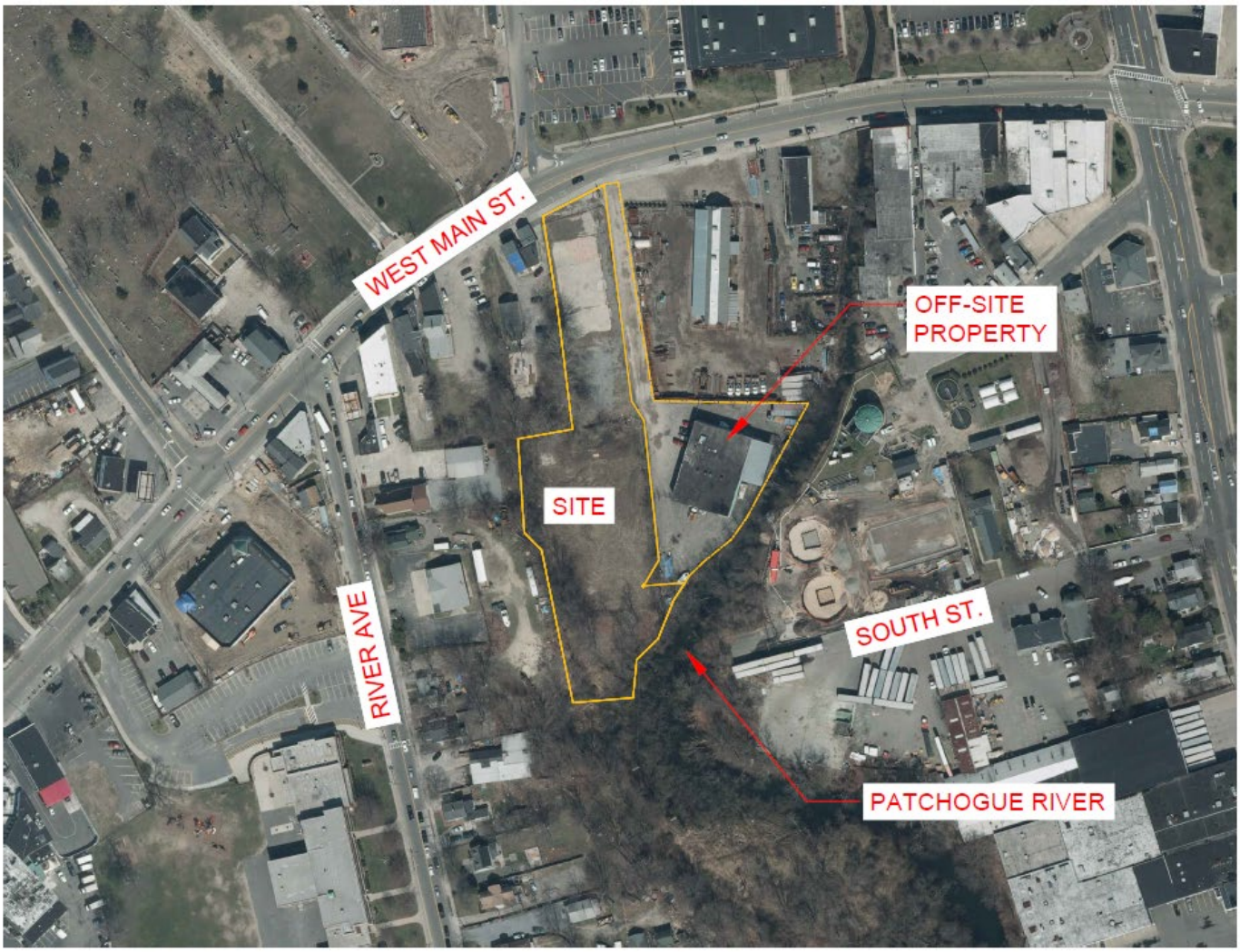
Have site information such as this fact sheet sent right to your email inbox. NYSDEC invites you to sign up with one or more contaminated sites county email listservs at:

www.dec.ny.gov/chemical/61092.html

It's quick, it's free, and it will help keep you better informed. As a listserv member, you will periodically receive site-related information/announcements for all contaminated sites in the county(ies) you select.

Note: Please disregard if you have already signed up and received this fact sheet electronically.

Site Location

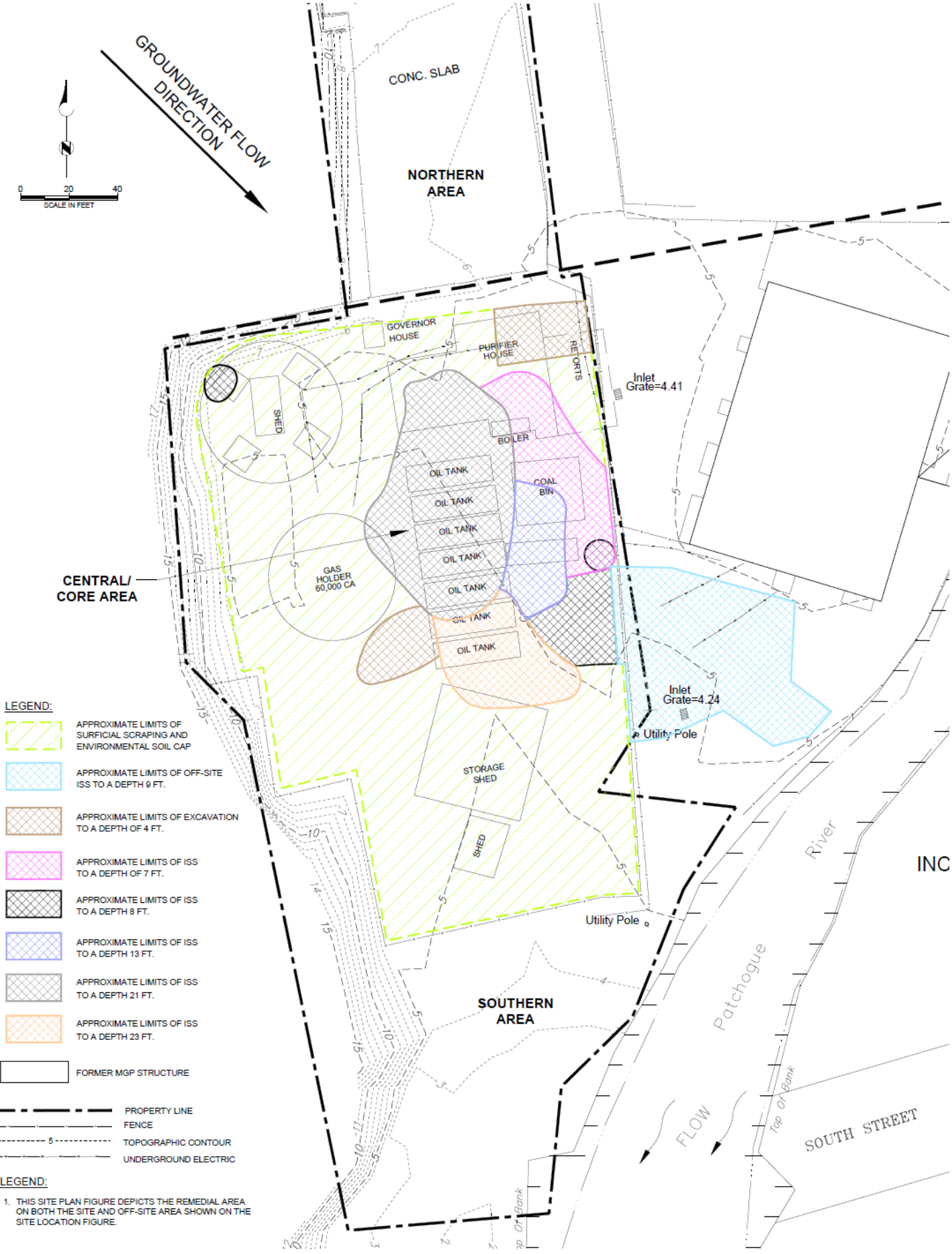


VICINITY MAP

0 200 400

SCALE IN FEET

Site Plan


GROUNDWATER FLOW DIRECTION
0
20
40
SCALE IN FEET
CONC. SLAB
NORTHERN AREA
GOVERNOR HOUSE
PURIFIER HOUSE
RETORTS
SHED
BOILER
OIL TANK
OIL TANK
OIL TANK
OIL TANK
OIL TANK
OIL TANK
OIL TANK
COAL BIN
GAS HOLDER 60,000 CA
CENTRAL/ CORE AREA
Inlet Grate=4.41
Inlet Grate=4.24
Utility Pole
Utility Pole
STORAGE SHED
SHED
SOUTHERN AREA
Patchogue River
FLOW
Top of Bank
SOUTH STREET
INC
LEGEND:
APPROXIMATE LIMITS OF SURFICIAL SCRAPING AND ENVIRONMENTAL SOIL CAP
APPROXIMATE LIMITS OF OFF-SITE ISS TO A DEPTH 9 FT.
APPROXIMATE LIMITS OF EXCAVATION TO A DEPTH OF 4 FT.
APPROXIMATE LIMITS OF ISS TO A DEPTH OF 7 FT.
APPROXIMATE LIMITS OF ISS TO A DEPTH 8 FT.
APPROXIMATE LIMITS OF ISS TO A DEPTH 13 FT.
APPROXIMATE LIMITS OF ISS TO A DEPTH 21 FT.
APPROXIMATE LIMITS OF ISS TO A DEPTH 23 FT.
FORMER MGP STRUCTURE
PROPERTY LINE
FENCE
TOPOGRAPHIC CONTOUR
UNDERGROUND ELECTRIC
LEGEND:
1. THIS SITE PLAN FIGURE DEPICTS THE REMEDIAL AREA ON BOTH THE SITE AND OFF-SITE AREA SHOWN ON THE SITE LOCATION FIGURE.