

Former Citizens Gas Works (C224012, C224012B and 224012) Brooklyn, NY Status of Cleanup Activities

Significant remedial activities were completed in April 2022 at the Former Citizens Gas Works site. National Grid and Brownfields applicants implemented remedies that included removal of contaminated soil and installation of a sealed bulkhead barrier wall along the Gowanus Canal. Additional information about the remedy is provided below.

The Citizens Gas Works site is a former Manufactured Gas Plant (MGP) site comprised of three separate sites. Parcels I and II of the former MGP are currently referred to as the Former Citizens MGP site, which is in the state's Brownfield Cleanup Program (BCP) with site code C224012. Former Parcel III is currently known as the 459 Smith Street BCP site (site code C224012B). The Former Citizens MGP Site, which is also sometimes referred to as Carroll Gardens/Public Place, is located at the intersection of 5th and Smith Street in Brooklyn, NY.

Parcel IV of the Former Citizens MGP Site (224012), located at 38 4th Street, was also part of the original MGP. National Grid will perform the remedial program for the remainder of this former MGP site under their existing multi-site Order on Consent with the Department. See

attached Site Location Map.

Citizens MGP/459 Smith Street Site – Remedy Overview

Remedial construction activities took place from July 2019 through early April 2022 at the Former Citizens MGP and 459 Smith Street Sites, to address soil and groundwater contamination associated with the past operations of the MGP.

The remediation work, as outlined in the 2017 100% Remedial Design Report, has been substantially completed. Key components of the project include:

- Removal and off-site thermal treatment of approximately 80,000 tons of source material and contaminated soil performed under a temporary odor containment structure, of which approximately 56,000 tons was from Citizens MGP (Parcels I and II) and 24,000 tons was from 459 Smith Street (Parcel III of the Citizens MGP).
- Importation of clean backfill to restore site grades; this will serve as a temporary site cover until the final cover

is installed as part of the final site redevelopment.

- Treatment and/or disposal of approximately 750,000 gallons of contaminated water generated during remedial construction.

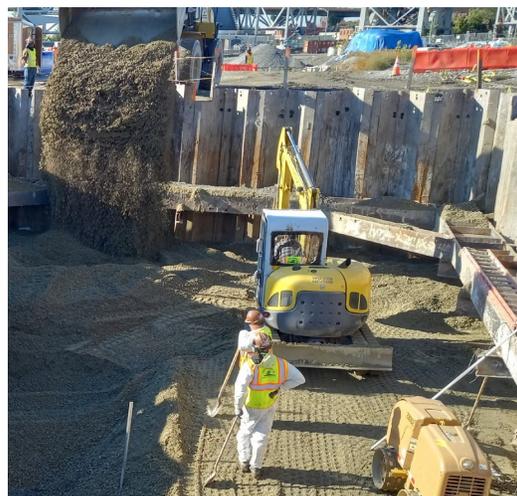
- Installation of approximately 880 feet of sealed steel sheet-pile bulkhead along the Gowanus Canal, of which 496 feet is along Citizens MGP (Parcel II) and 379 feet is along 459 Smith Street Site. A hydraulic relief system was installed behind the bulkhead to prevent mounding of groundwater behind the wall.

- Installation of 18 new coal tar non-aqueous phase liquid (NAPL) recovery wells, of which 10 were installed on Citizens Parcels I and II, and 8 wells at Citizens Parcel III (459 Smith Street). There are five additional recovery wells that were previously installed in 2009 and have been operating on Parcels II and 459 Smith Street since 2010. These wells continue to recover NAPL.

- Community Air Monitoring during the cleanup using both stationary and portable units to monitor dust and volatile organic compounds upwind and downwind of the site, operating 24/7 under site supervision.



Excavation within the temporary fabric structure



Backfill Activities



Bulkhead Installation Activities



Bulkhead Installation Activities



Newly-Installed Recovery Wells



Installation of Bulkhead Hydraulic Relief System



Site Restoration Activities – Temporary Cover and Bulkhead Cap



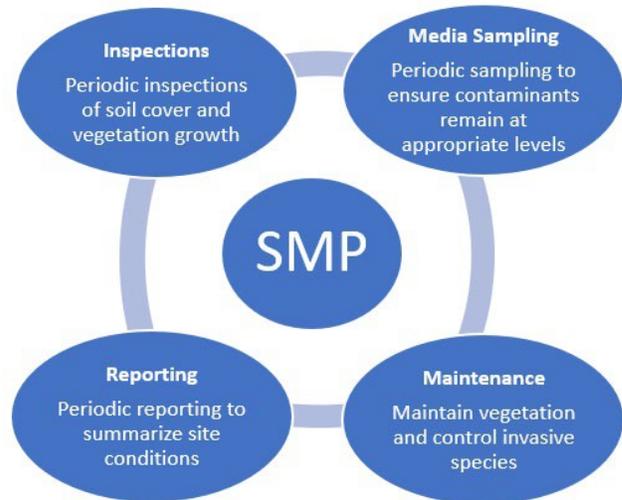
Site Restoration Activities – Temporary Cover and Bulkhead Cap



Community Air Monitoring Station

Current Status

Another component of the site remedy, the development of an interim site management plan (ISMP), is under review for the Citizens MGP site (Parcels I and II). A separate ISMP will be submitted for the 459 Smith Street site (Parcel III of the MGP). The ISMP (and ultimately a final SMP) is an important and required remedial element that is prepared for all sites in NYS that contain residual contamination requiring long-term management. The SMP will include plans for institutional and engineering controls (IC/ECs), long-term operation, monitoring and maintenance (OM&M), and periodic reporting to NYSDEC and the NYS Department of Health (NYSDOH) to ensure the sites' remedy remains in place and functioning as designed to maintain long-term protection of human health and the environment. As such, the ISMP will guide the future intrusive activities at the sites during the upcoming site redevelopments. All future site activities shall be completed in accordance with the ISMP until a final site management plan (SMP) is approved. The SMPs for both BCP sites – Citizens Parcels I and II and 459 Smith Street site/Parcel III will be finalized prior to the issuance of the respective BCP Certificate of Completion (COC) for each site. The SMP is a living document and may be updated throughout the long-term site management phase, as necessary/appropriate. The NYSDEC will provide oversight during the future ground intrusive redevelopment work.



In addition, the USEPA, NYSDEC, and NYSDOH continue to work collaboratively on the cleanup of the former Citizen's MGP and 459 Smith Street Sites. It is anticipated that meetings between the agencies will continue to facilitate addressing remaining concerns.

Finally, access negotiations between the property owner and National Grid are ongoing to allow National Grid access to Parcel IV in order to complete a supplemental soil investigation. The remediation of Parcel IV will proceed after the supplemental soil investigation. Additional public notifications will be issued at future milestones.

What will happen following clean-up activities?

Following the completion of the remedial construction activities, the site will enter site management (long-term OM&M), which is the final phase of the remedial program, and will be governed by the ISMP/SMP. This will include routine inspections of the site

engineering controls, including the site cover systems, soil vapor intrusion systems, NAPL collection wells, groundwater monitoring wells, and the bulkhead to ensure the remedy continues to be protective of human health and the environment.

In addition, a long-term groundwater monitoring and NAPL coal tar collection program will be conducted under the ISMP/SMP and overseen by NYSDEC and NYSDOH.

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Have site information such as this fact sheet sent right to your email inbox. DEC invites you to sign up with one or more contaminated sites 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 and announcements for all contaminated sites in the county(ies) you select.

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FOR MORE INFORMATION ABOUT MGPs:

<https://www.dec.ny.gov/chemical/8430.html>

ADDITIONAL INFORMATION:

Project documents are made available at the
Community Board 6 Office
250 Baltic Street
Brooklyn, NY
(718) 643-3027

If you cannot access the documents online, please contact the NYSDEC project manager listed on the front page for assistance.

Learn more about the Manufactured Gas Plant Program at:

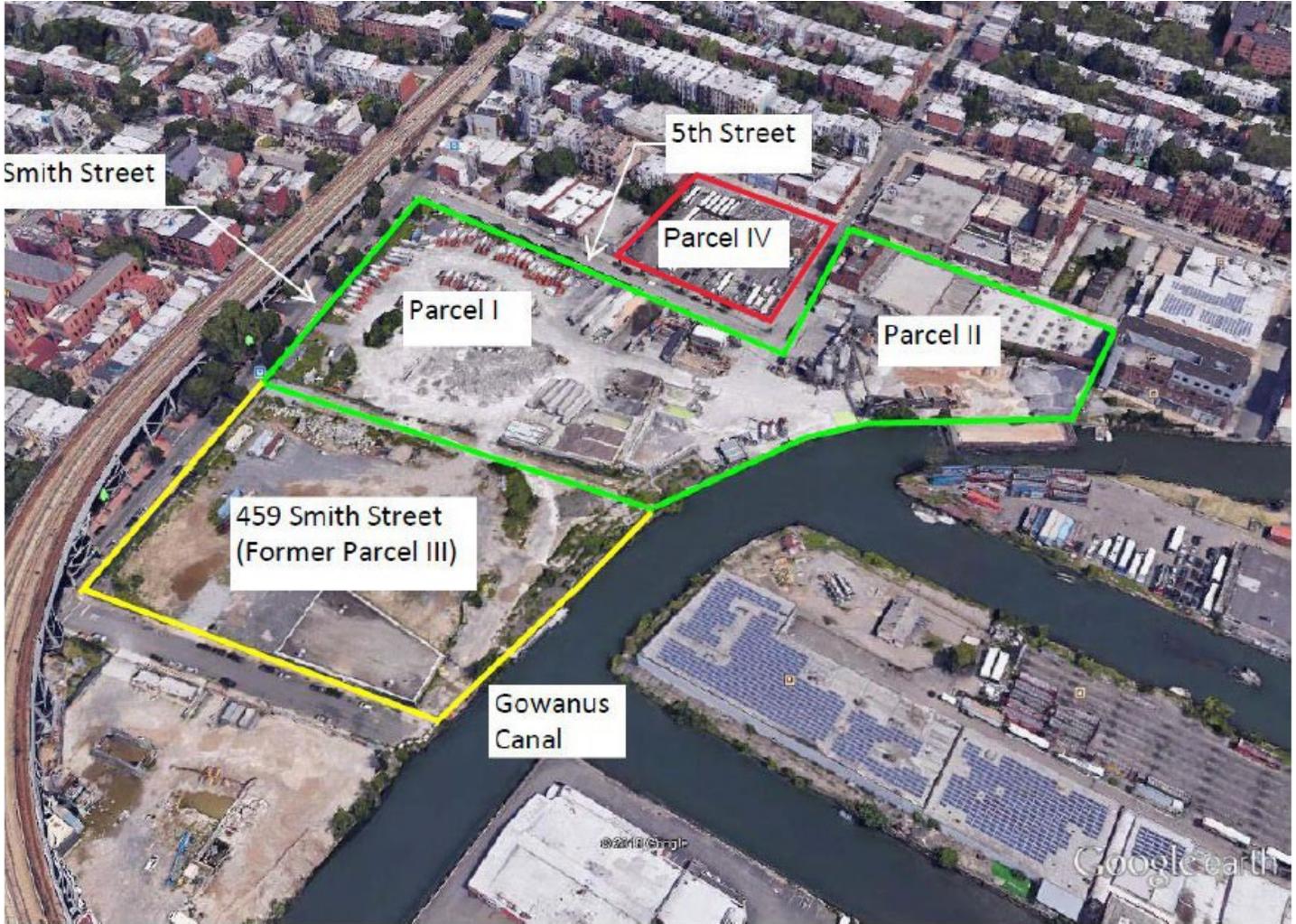
<https://www.dec.ny.gov/chemical/8430.html>

and State Superfund Program at:

<https://www.dec.ny.gov/chemical/8439.html>

Site Location, Brooklyn, NY

Citizens MGP Site (former Parcels I and II), 459 Smith Street Site (former Parcel II) and Parcel IV





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