



FACT SHEET

Petroleum Remediation Program

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Site Name: ExxonMobil Greenpoint Petroleum Remediation Project
DEC Site #: S224150 Operable Units 01, 02, 06 *
Address: 400 Kingsland Avenue
Brooklyn, NY 11222

Have questions?
See
"Who to Contact"
Below

Proposed Remedies – No Action & No Further Action Public Comment Period and Public Meeting Announcement

Public Meeting, Wednesday, 1/27/2016 from 6:00 – 9:00 PM

Brooklyn Public Library, Greenpoint Branch

107 Norman Avenue, Brooklyn, NY 11222

(Presentation and Q&A at 7:00 PM)

NYSDEC invites you to a public meeting to discuss the remedies proposed for three operable units (OUs) the site. You are encouraged to provide comments at the meeting, and during the 30-day comment period described in this fact sheet.

The public is invited to comment on remedies proposed by the New York State Department of Environmental Conservation (NYSDEC) related to three operable units of the ExxonMobil Greenpoint Petroleum Remediation site ("site") located at 400 Kingsland Avenue, Brooklyn, Kings County. Please see the map for the site location.

Documents related to the cleanup of this site can be found at the location(s) identified below under "Where to Find Information."

How to Comment

NYSDEC is accepting written comments about the proposed Decision Documents for 30 days, from **January 15, 2016** through **February 15, 2016**. The proposed Decision Documents are available for review at the location(s) identified below under "Where to Find Information." Please submit comments to the NYSDEC project manager listed under *Project Related Questions* in the "Who to Contact" area below.

Proposed Remedial Action Plan - The remedy proposed for the site includes:

Summary of the Remedy for OU-01:

The elements of the proposed remedy are as follows:

- Site cover consisting of buildings, or pavement, or sidewalks, or, one foot of soil cover meeting the soil cleanup objectives (SCOs) for commercial use as set forth in 6 NYCRR Part 375-6.7(d),
- Monitored Natural Attenuation (MNA) consisting of sampling of physical, chemical, and biological indicators to demonstrate degradation of petroleum material,
- Establishment of Institutional Controls (ICs) including: (i) restricting the use of the property to commercial uses; (ii) an agreement with the applicable parties providing for the implementation of the Site Management Plan (SMP); (iii) a restriction on the use of groundwater as a source of potable or

* *Operable Unit*: An administrative term used to identify a portion of a site that can be addressed by a distinct investigation and/or cleanup approach. An operable unit can receive specific investigation, and a particular remedy may be proposed.

process water, (iv) a communication program with the property owners and tenants that will keep them informed of the engineering control activities; and (vi) a periodic certification of institutional and engineering controls.

Summary of the Remedy for OU 02:

Based on results of the investigations at the site, the interim remedial measures (IRMs) that have been performed (i.e., watertight sheeting, phase separated hydrocarbon (PSH) recovery, groundwater extraction/dewatering, total soil excavation), and the evaluation presented in the proposed Decision Document, the Department is proposing No Further Action as the remedy for the site. The Department believes that this remedy is protective of human health and the environment and satisfies the remediation objectives referenced the proposed Decision Document.

Summary of the Remedy for OU 06:

Based on the results of the investigation, and in accordance with the requirements of the Consent Decree, no further investigation and/or remedial actions are required within the OU-6 area to satisfy ExxonMobil's obligations under the Consent Decree. Therefore, the Department is proposing No Action as the remedy for OU-6.

Summary of the Investigation for OU 01:

Potential petroleum-related impacts were only observed within the historic fill material that comprise the shallow aquifer. Soil quality in OU-1 indicates that impacts are generally limited to SVOCs, metals, and total petroleum hydrocarbon (TPH). Isolated samples collected showed VOC detections above Part 375 Protection of Groundwater. No volatile organic compounds (VOCs) were detected above Part 375 Industrial standards. PAH ratio analysis indicates that the semi-volatile organic compounds (SVOCs) may be attributable to non-petroleum related sources, including, but not limited to, historical filling activities not associated with ExxonMobil's historic operations.

Summary of the Investigation for OU 02:

The majority of petroleum impacts were identified within the shallow subsurface, less than 15 ft. below ground surface (bgs). Watertight sheeting was installed along the entire perimeter of OU-2 and petroleum-impacted and non-impacted soils were excavated to an approximate depth of 30 feet bgs across the entirety of OU-2 as part of the WPCP construction and upgrades. Clean backfill and concrete foundation materials replaced the excavated soils. As a result of the remedial actions described above, construction actions resulted in the removal of petroleum-impacted soils and restored groundwater quality within OU-2 to pre-release conditions to the extent practicable/feasible. Based on the Newtown Creek Water Pollution Control Plant (WPCP) redevelopment activities, there is no known source material present within OU-2 that would reasonably have the potential to impact soil vapor generated or groundwater within the subsurface.

Summary of the Investigation for OU 06:

The results of the site characterization investigation activities within OU-6 indicate the presence of limited contamination that appears to be unrelated to ExxonMobil's historic operations in Greenpoint. Based upon the results of the site characterization activities and, in accordance with the requirements of the Consent Decree, no further investigation and/or remedial actions are required within OU-6 to satisfy ExxonMobil's obligations pursuant to the Consent Decree.

Institutional and Engineering Controls

Institutional controls and engineering controls generally are designed to reduce or eliminate exposure to contaminants of concern. An *institutional control* is a non-physical restriction on use of the site, such as a deed restriction, when contamination left over after the cleanup action makes the site suitable for some, but not all uses. An *engineering control* is a physical barrier or method to manage contamination such as a cap or vapor barrier.

Institutional controls have been or will be put in place on the site including: Site Management Plan.

Engineering controls have been or will be put in place on OU-1 parcels including: Cover System.

Next Steps

NYSDEC will consider public comments as it finalizes the remedies for the site. The selected remedy will be described in a document called a "Record of Decision" that will explain why the remedy was selected and respond to public comments.

Background

Location: The site is located in the northeast area of Brooklyn and is generally bounded by Newtown Creek on the north and east, Kingsland and Sutton Avenues on the southwest, and Anthony Street on the south.

Site Features: The site is located in a heavily urbanized area in the northeast section of Greenpoint, Brooklyn. The majority of the area defined by the site is a commercial/industrial area bounded by Newtown Creek. The southwest portion of the defined area is a residential neighborhood.

Current Zoning/Use(s): See Operable Unit Structure below.

Historical Use(s): The majority of the site is a former petroleum product refinery.

Operable Units: The ExxonMobil Greenpoint Petroleum Remediation Site is defined by the Federal Consent Decree Case 1:07-cv-02902-KAM –RML. Under the conceptual site model, the Site has been divided into eight operable units. The operable units discussed in this Fact Sheet are:

OU1: Former Lube Plant

OU-1 occupies approximately seven acres in the northernmost portion of the Site and includes the area of the Former Lube Plant that was part of the former Mobil Brooklyn Refinery. OU-1 also includes the Kingsland Avenue right-of-way between Greenpoint Avenue and the northern Site boundary. This property is identified as Block 2517, Lot Nos. 27, 35 and 40, based upon New York City records.

OU2: Former Northern Crude Yard (now part of Newtown Creek WPCP)

OU-2 comprises approximately six acres immediately between OU-1 and Greenpoint Avenue, and corresponds to the area historically known as the Former Northern Crude Yard portion of the Former Mobil Refinery and Terminal. The property is identified as Block 2527, Lot 2. New York City acquired the parcel from ExxonMobil via condemnation proceedings in 1997 as part of the expansion of the Newtown Creek Water Pollution Control Plant (WPCP). The expansion of the WPCP onto and across the entire parcel is complete.

OU6: Western Offsite (off former refinery) Area

OU-6 is comprised of approximately 18 acres located outside of the Historical Footprint and to the west of OU-4 and OU-5. This portion of the Site was never owned or operated upon by ExxonMobil. This area consists of numerous properties and, therefore, individual Tax Block and Lot identifiers are not listed. Land use is mixed industrial and commercial.

Site Geology:

The stratigraphic units underlying the Site consist primarily, from land surface down, of: artificial fill, fluvial sediments and marsh deposits associated with Newtown Creek (i.e., historical creek and marsh sediments), glacially-deposited sediments (i.e., glacial drift), and bedrock. The glacial drift beneath the Site includes both glacial till and glacial outwash.

Additional Site details, including environmental and health assessment summaries, are available on NYSDEC's website at:

<http://www.dec.ny.gov/cfm/x/xtapps/derexternal/haz/details.cfm?pageid=3&progno=S224150>

FOR MORE INFORMATION

Where to Find Information

Project documents are available at the following project repositories:

Brooklyn Public Library
Central Library
Attn: Reference Librarian
10 Grand Army Plaza
Brooklyn, NY 11238
phone: (718) 230-2191

Brooklyn Public Library
Greenpoint Branch
Attn: Reference Librarian
107 Norman Avenue
Brooklyn, NY 11222
phone: (718) 349-8504

Project documents are also available on the NYSDEC website at:

<http://www.dec.ny.gov/chemical/37550.html>

Who to Contact

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

Project Related Questions

Benjamin Rung
Department of Environmental Conservation
Division of Environmental Remediation
625 Broadway, 12th Floor
Albany, NY 12233-7017
(518) 402-9826
benjamin.rung@dec.ny.gov

Site-Related Health Questions

Dawn Hettrick
New York State Department of Health
Empire State Plaza - Corning Tower
Room 1787
Albany, NY 12237
(518) 402-7860
BEEI@health.ny.gov

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.

Prosimy o kontakt z Benjamin Rung, NYSDEC, na benjamin.rung@dec.ny.gov jeżeli chcesz otrzymać ten dokument w języku polskim.

Por favor póngase en contacto con Benjamin Rung, NYSDEC, en benjamin.rung@dec.ny.gov si usted desea recibir este documento en español.

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 available at the following web page: <http://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 already have signed up and received this fact sheet electronically.

