

## Public Meeting Invitation

**Wednesday,  
February 25, 2009  
7:00 PM**

Brooklyn Navy Yard  
Industrial Park; Bldg. 292,  
63 Flushing Avenue,  
Brooklyn, NY  
(718) 907-5900

## PUBLIC COMMENT PERIOD

**From:** February 12, 2009  
**To:** March 16, 2009

### Project Contacts:

#### Project-Related Information:

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#### Health-Related Information:

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Flanigan Square  
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Troy, NY 12180-2216  
Phone: (800)458-1158 ext.  
27860

**For more information visit:**  
**[www.dec.ny.gov](http://www.dec.ny.gov)**

# FACT SHEET

February 2009

**13-Acre Parcel Site**  
**Site No. 224019A**  
Brooklyn Navy Yard  
Brooklyn, NY 11205

## Remedy Proposed for the Brooklyn Navy Yard 13-Acre Parcel Site

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## Public Meeting, Comment Period Announced

The New York State Department of Environmental Conservation (NYSDEC), working cooperatively with the New York State Department of Health (NYSDOH), has proposed a remedy designed to address contamination identified at Operable Unit No. 1 (OU1), a 9.5 acre parcel of the Brooklyn Navy Yard 13-Acre Parcel Site in Brooklyn, New York (*see site location map*). This site is in the New York State Superfund Program.

**The Proposed Action:** Highlights of the proposed remedy include excavation of hot spots and placing a protective cover over the entirety of OU1. This proposal is described in the OU1 Proposed Remedial Action Plan (PRAP). The PRAP was developed following a detailed investigation of OU1, and evaluates different options to clean up OU1 and presents the alternative preferred by the NYSDEC and NYSDOH.

**Your Opportunities to Comment:** Your oral and written comments about the PRAP are welcome at the **public meeting** and during the **public comment period** (see left). Written comments may be mailed to the NYSDEC Project Manager.(see left side). The PRAP is available for review at the locations listed at the end of this document

If you know someone who would like to be added to the project mailing list, have them contact the NYSDEC project manager. 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.

**What Happens Next:** All comments received during the public comment period will be considered as the remedy for OU1 of the Brooklyn Navy Yard 13- Acre Parcel site. Public input will be factored into the Record of Decision (ROD) which will describe the remedy selected and why it was chosen. NYSDEC will respond to comments in a responsiveness summary included in the ROD.

## Site History

OU1 is on the north-east portion of the Brooklyn Navy Yard Development Corp. (BNYDC) Industrial Park and is operated by the New York City Department of Sanitation.

OU1 was formerly the home to various industrial activities associated with the Brooklyn Navy Yard, and later with the Brooklyn Navy Yard Development Corporation Industrial Park. OU1 contains four distinct areas of investigation (see figure 1).

The four areas of concern are: Drum Storage Areas A and B, Building 419 and the Railroad Siding Area. These areas were used to store solvents, semi-volatile compounds, and oils. In addition, there was a transformer explosion and fire in Building 419 that resulted in the release of Polychlorinated Biphenyls (PCB).

## Site Investigation

The purpose of the remedial investigation (RI) was to define the nature and extent of any contamination resulting from previous activities at OU1. The RI was conducted between February, 2005 and September, 2006. The field activities and findings of the investigation are described in the RI report, which can be found at the document repositories listed at the end of this document.

The investigation encompassed a detailed evaluation of earlier studies and data, as well as the collection of new soil samples, groundwater samples, surface water/sediment samples, and soil vapor samples. In general, contamination by PCB and lead were found to be the primary concerns related to process activities at OU1. Site-wide contamination associated with “historic fill” (e.g., building demolition debris, coal ash, cinders, etc.) that was used throughout New York City’s history as a means of reclaiming marshy areas and wetlands was also identified during the investigation.

## Interim Remedial Measures

An interim remedial measure (IRM) is conducted at a site when a source of contamination or exposure pathway can be effectively addressed before completion of the RI/FS. An IRM soil removal was performed at Drum Storage Area B during the summer of 2008 in an effort to ready the area for planned commercial development. The IRM targeted anomalously high lead and PCB concentrations in soil found during the RI. Contaminated soils were excavated and disposed off-site in accordance with state and federal law. Following the initial removal, samples were taken from the side walls and bottom of the excavation and results were compared to the cleanup objectives established for the IRM (i.e., .1 part per million (ppm) PCB, and 400 ppm lead). End point samples were determined to have achieved the goals of

the IRM, and an IRM closeout report was submitted to the NYSDEC in December, 2008. The IRM is considered to have successfully removed the most contaminated soils at the Drum Storage Area B portion of OU1.

## Summary of Proposed Remedial Action

OU1 is bordered by the East River on the north and west, by Kent Avenue on the east, and by the remainder of the BNYDC industrial park on the south, in Brooklyn, New York.

The PRAP identifies the remedy preferred by the NYSDEC and NYSDOH to remediate OU1. After a detailed site investigation and the evaluation of alternative clean-up methods, the following proposed remedy was chosen:

The elements of the proposed remedy include:

- Remedial design program implementation.
- Excavation of soils containing PCBs greater than 10 ppm and soils which fail Toxicity Characteristic Leaching Potential (TCLP) analysis for lead (>5 mg/l in extract). (See Figure 1)
- A soil cover would be constructed over all vegetated areas to prevent exposure to contaminated soils.
- Development of a site management plan which would include the following institutional and engineering controls: (a) management of the final cover system to restrict excavation below the soil cover’s demarcation layer, pavement, or buildings. Excavated soil would be tested, properly handled to protect the health and safety of workers and the nearby community, and would be properly managed in a manner acceptable to the Department; (b) continued evaluation of the potential for vapor intrusion into any buildings developed on the site, including the mitigation of any impacts identified; (c) identification of any use restrictions on the site; and (d) provisions for the continued proper operation and maintenance of the components of the remedy.
- Imposition of an institutional control in the form of an environmental easement that would require (a)

limiting the use and development of the property to commercial use, which would also permit industrial use; (b) compliance with the approved site management plan; (c) restricting the use of groundwater as a source of potable or process water, without necessary water quality treatment as determined by NYSDOH; and (d) the property owner to complete and submit to the Department a periodic certification of institutional and engineering controls, prepared and submitted by a professional engineer or such other expert acceptable to the Department, until the Department notifies the property owner in writing that this certification is no longer needed.

### **Costs and Funding for the Site Remedy**

The total present worth to construct and implement the proposed remedy is estimated at \$2,279,000. The City of New York is expected to fund this action. The area is currently used for commercial and industrial purposes and the remedy will allow those uses to continue.

### **Health and Safety Issues**

Exposure to site-related contaminants in surface soil has been minimized by an interim remedial measure (IRM) to remove hot spot soil contamination. In addition, any remaining contamination is located beneath pavement or is at depths that minimizes the potential for contact exposure. Exposure to site-related contaminants in drinking water is not expected since the area is served by a public water supply. Since the site is not currently developed, inhalation of contaminants in indoor air via vapor intrusion is not a current exposure pathway. However, if OU1 is developed in the future, inhalation via vapor intrusion will be a potential future exposure pathway and will be addressed in the proposed remedial action plan for OU1.

A site-specific Health and Safety Plan (HASP) and a Community Air Monitoring Plan (CAMP) will be implemented during remediation activities. The HASP and CAMP will establish procedures for the protection of on-site workers and off-site residents and will include required air monitoring as well as dust and odor suppression measures.

### ***Location of Documents Pertaining to Site:***

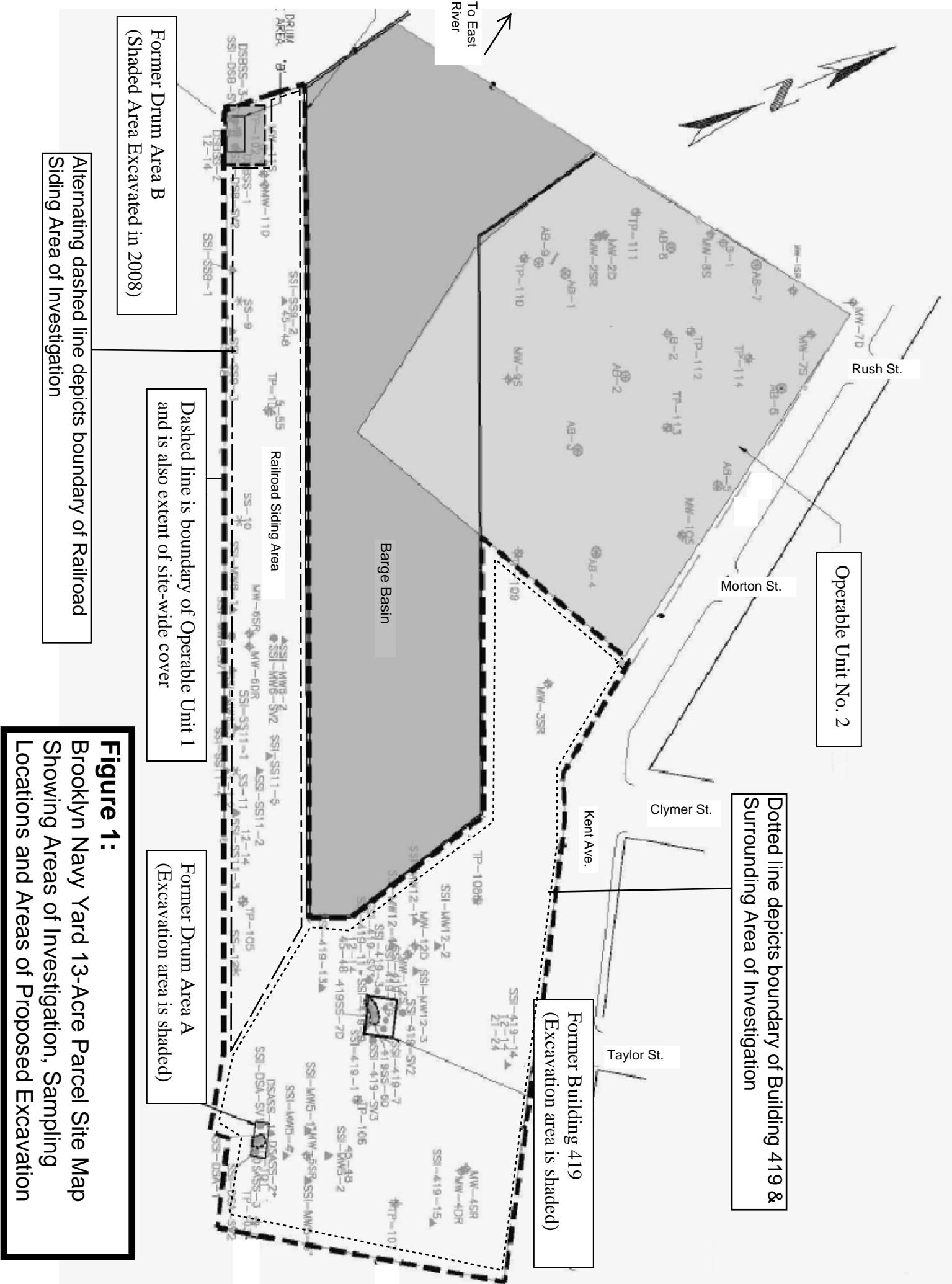
NYSDEC  
625 Broadway  
Albany, NY 12233-7014  
Attn: Jonathan Greco, Project Manager  
Mon- Fri 8:30 - 4:45, by Appointment  
(518) 402-9694 or (888)-212-9586

Brooklyn Community Board #1  
Mr. Gerald A. Esposito  
District Manager  
435 Graham Avenue  
Brooklyn, NY 11211  
(718) 389-0009  
Mon - Fri 9 AM - 5 PM

Brooklyn Community Board #2  
John Dew, Chairperson  
350 Jay Street, 8th floor  
Brooklyn, NY 11201  
Mon - Fri 9:00 - 5:00

Brooklyn Public Library  
Central Library  
Grand Army Plaza  
Brooklyn, NY 11238  
(718) 230-2100

Monday 9 AM - 6 PM  
Tues - Thurs 9 AM - 9 PM  
Friday 9 AM - 6 PM  
Saturday 10 AM - 6 PM



**Figure 1:**  
Brooklyn Navy Yard 13-Acre Parcel Site Map  
Showing Areas of Investigation, Sampling  
Locations and Areas of Proposed Excavation



Site Location Map for Operable 1 of the Brooklyn Navy Yard 13-Acre Parcel Site

\_\_\_\_ Meeting Announcement \_\_\_\_ FACT SHEET \_\_\_\_ Meeting Announcement \_\_\_\_