



# DNREC Virtual Public Hearing

**On the Proposed Plan of Remedial Action for the Barbara Hicks Park  
OU-1 Site (DE-1804)  
(Docket #2023-R-WH-0008)**

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DIAL-in Number: 1-646-558-8656

Meeting ID **957 5023 2508** Passcode **827198**

Comments can be offered tonight or by using the DNREC comment form, via email, or by USPS mail as noted on the hearing event page ([de.gov/dnrechearings](https://de.gov/dnrechearings))



# What is the DNREC Remediation Section?

Our Goal:

***“To stop direct significant exposures, prioritize response actions to reduce the worst risk first, manage potential risks to an acceptable level, and communicate to the public on the status of cleanup of local sites, utilizing various remedial programs.”***



# Remedial Programs

HSCA

Brownfields

Voluntary Cleanup Program

Long-Term Stewardship



# What is HSCA?

Delaware's Hazardous Substance Cleanup Act (HSCA) (7 Del. C. Ch. 91) provides DNREC with the authority to take enforcement actions against responsible parties to ensure cleanup at sites with a release, or imminent threat of release, of hazardous substances.



# Brownfields

The DNREC Brownfields Development Program encourages the cleanup and redevelopment, reuse or expansion of real properties, which may be complicated by the presence or potential presence of a hazardous substance.



# Voluntary Cleanup Program

DNREC's Voluntary Cleanup Program (VCP) is available to all parties who own property and may be liable for the contamination of a property, but who wish to settle their liabilities with the Department of Natural Resources and Environmental Control under the Hazardous Substance Cleanup Act (HSCA).



# Long-Term Stewardship

Long-term stewardship (LTS) is the maintenance and monitoring of the completed remedial measures taken at a site, to maintain the desired level of protection of human health and the environment over an extended period of time.





# Barbara Hicks Park Site OU-1 History

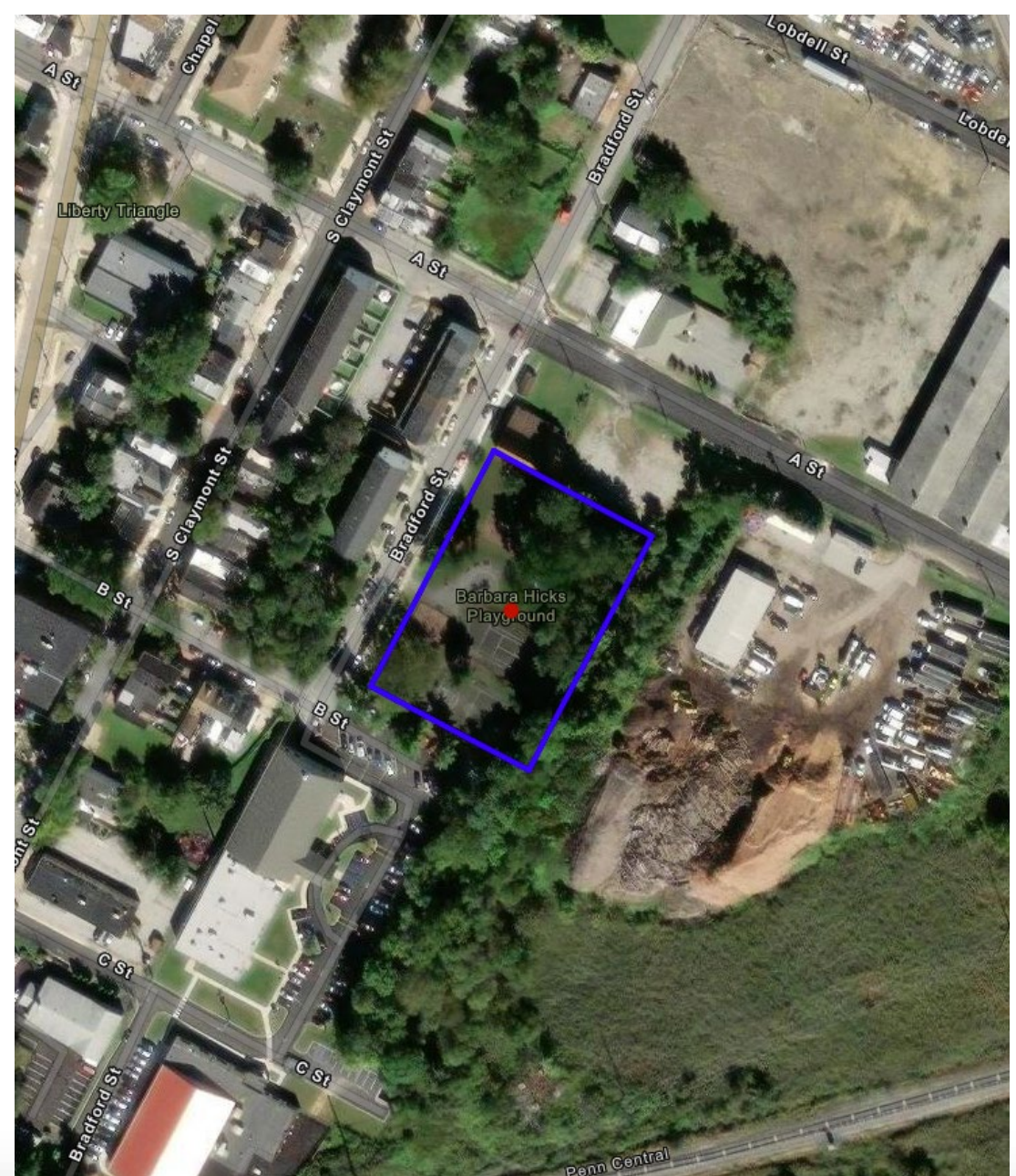
- Located at the intersection of Bradford and B Streets
- Currently consists of a playground, basketball court and open green space
- Park is approx. 1.36 acres in size and comprised of 8 tax parcels
- From 1940-1970's, site was undeveloped
- Evidence of filling on the site appeared 1940
- 1970s and 80s, area was developed into a public park



Historical aerial image from 1940 of site location



# Site Location Map



# Purpose of the Remedial Investigation (RI)

***The purpose of the RI was to document the existing environmental conditions of site soil at the Site, to identify contaminants that may pose a threat to human health or the environment, to present a statement of relative risk, and to evaluate the need for remedial actions to reduce or eliminate risks.***

# Timeline of the Remedial Investigation (RI)

- Limited Phase II Investigation conducted in June 2022
- Entered into Voluntary Clean-up Program in August, 2022
- Remedial Investigation conducted in September 2022
  - During RI, 8 soil borings were advanced to depths ranging 4.0-8.0 feet bgs
  - Surface (0-6 inches bgs), shallow (0-2 ft bgs) and deep (>2 ft bgs) samples collected
  - All samples screened for VOCs, SVOCs, pesticides, PCBs and metals at DNREC-RS Screening Lab
  - Based on screening lab results, field observations and spatial distribution, samples were sent for confirmatory analysis at Eurofins laboratory
- Results determined a residential and recreator human health risk





# Sampling Location Map



# RI Results

- 8 borings collected from 0-8 ft below ground surface
- Surface, shallow and deep soils samples were screened for VOCs, SVOCs, pesticides, PCBs and metals at DNREC-RS Screening Laboratory
- After lab screening, the following compounds exceeded HSCA screening levels:
  - SVOC's-Benz[a]anthracene, benzo[a]pyrene, benzo[b]fluoranthene, dibenz(a,h)anthracene, indeo[1,2,3-cd]pyrene, naphthalene, and metals-antimony, arsenic, barium, cadmium, copper, lead, manganese, nickel, thallium, and cyanide

# Human Health Risk Assessment (HHRA)

- Compounds exceeding HSCA screening levels were identified as contaminants of potential concern (COPC) requiring a HHRA
- Carcinogenic/non-carcinogenic risk evaluated for exposure to COPCs on Site:
  - Shallow soil (resident, outdoor worker, excavation worker, indoor worker, composite worker, recreator and trespasser)
  - Combined soil (resident, outdoor worker, excavation worker, indoor worker, composite worker, recreator and trespasser)
- Eco-risk assessment was conducted, and found that while contaminants of potential ecological concern are present, it was determined that ecological risks are not a concern

# HHRA Table for Shallow and Combined Soil

	Resident Exposure	Excavation Exposure	Indoor Worker Exposure	Outdoor Worker Exposure	Composite Worker Exposure	Trespasser Exposure	Recreator
Carcinogenic Risk	Unacceptable	Acceptable	Acceptable	Acceptable	Acceptable	Acceptable	Unacceptable
Non-carcinogenic Risk	Unacceptable	Acceptable	Acceptable	Acceptable	Acceptable	Acceptable	Acceptable





# Proposed Plan of Remedial Action (PPRA)

- The PPRA summarizes clean-up (remedial) actions proposed to address contamination found at the Site for public comment
  - A legal notice is published in the newspaper advertising a 20-day comment period
- The PPRA was issued on 2/15/23
- A Public Notice of Extension of public comment period issued on 3/5/23
- Public Notice for Public Hearing issued on 3/8/23



# Remedy Selection- OU1

1. Following completion of the RI, a Proposed Plan of Remedial (PPRA) was published requiring:
  - a. Submittal of a Remedial Action Work Plan (RAWP) to DNREC-RS.
  - b. Prevent human exposure to soil with constituents that exceed a  $1 \times 10^{-5}$  cumulative cancer risk. This will be accomplished by:
    - i. Placement of a one-foot soil on top of a marker fabric, stone, or impervious cap/cover to restrict access to underlying soil; and/or,
    - ii. Excavation of soil with elevate concentrations of polyaromatic hydrocarbons (PAHs) or metals.
  - c. Preparation and implementation of a site-specific Contaminated Materials Management Plan (CMMP) and Health and Safety Plan (HASP).
  - d. Preparation and implementation of Environmental Covenant for non-residential use.
  - e. Preparation and implementation of a site-specific Long-Term Stewardship (LTS) Plan if the cap/cover option is selected.
  - f. Submittal of a Remedial Action Completion Report (RACR) to DNREC-RS within 60 days of the completion of the required remedial actions.
2. COCR will be issued following the completion of all required remedial actions.

# Exhibits

1. Limited Remedial Investigation Report-Brightfields, Inc.- June 2022
2. Public Notice for the Voluntary Clean-Up Program- August 2022
3. Remedial Investigation Report-Brightfields, Inc. – January 2023
4. Proposed Plan of Remedial Action- February 9, 2023
5. Legal Notice for Proposed Plan of Remedial Action– February 15, 2023
6. Legal Notice for Notification of Extension of Public Comment Period for the Proposed Plan of Remedial Action- March 5, 2023
7. Legal Notice for Public Hearing-March 8, 2023
8. Comments received prior to Public Hearing- February 22- March 2
9. Public Hearing Presentation for the Proposed Plan of Remedial Action- March 13, 2023



# DNREC Virtual Public Hearing

**Proposed Plan of Remedial Action for the Barbara Hicks Park OU-1 Site**

**DE-1804**

**(Docket #2023-R-WH-0008)**

**Thank you for joining us.** We will accept comments on this matter through April 21, 2023.

You can submit your comments using the DNREC comment form,  
via email, or by USPS mail, as noted on the hearing event page.

A copy of the Court Reporter's full, verbatim transcript will be posted on this hearing's web page as soon as it becomes available.

For more information, find the event page for this hearing on the DNREC Public Hearings page ([de.gov/dnrechearings](https://de.gov/dnrechearings)).

