

### 34 Berry Street BCP C224268

Presentation to Brooklyn Community Board #1 Environmental Protection Committee

August 11, 2020

### Meeting Summary

- Involved Parties
- Citizen Participation Program
- Brownfield Cleanup Program Overview
- Brief Site History
- Environmental Findings
- Additional Environmental Sampling
- Summary of Proposed Remedial Action
- Questions / Comments



## Brownfield Cleanup Program Involved Parties

- Environmental Regulation
  - New York State Department of Environmental Conservation (DEC)
- Public Health Regulation
  - New York State Department of Health (DOH)
- Remedial Parties / Property Owners
  - 34 Berry Street, LLC
- Engineering Consultant AKRF, Inc.



### Citizen Participation Program

- To receive future Fact Sheets
  - Sign up for email notice through DEC Delivers:
     www.dec.ny.gov/chemical/61092.html
  - Or search on DEC's website for "DEC Delivers"
  - Access the RAWP and other project documents online through the DECinfo Locator:

www.dec.ny.gov/data/DecDocs/C224268/



### Document Repositories

- Brooklyn Community Board No. 1 435 Graham Avenue Brooklyn, NY 11211
- Brooklyn Public Library Leonard Branch
   81 Devoe Street
   Brooklyn, NY 11211



### Brownfield Cleanup Program Process

- **Application** 
  - Public comment period 12/13/17 to 1/12/18
- **Execute Brownfield Cleanup Agreement** 
  - COMPLETED 3/20/18
- Remedial Investigation Work Plan
  - Submitted with BCP Application
  - Public comment period 12/13/17 to 1/12/18
  - COMPLETED/APPROVED 10/4/18
- Remedial Investigation Field Work

  - Collect necessary data; define problem Additional soil sampling to proceed this week; initial fieldwork completed 8/19
- Interim Remedial Measures
  - Upgrade existing oil recovery system
- Propose Remedy (Remedial Action Work Plan, or RAWP)

  ONGOING Public comment period 7/9/20 to 8/22/20

  RAWP approval and Decision Document issuance
- Implement Remedy
- Monitor Remedy



### **Site Description**

- 36,472 square ft (0.83 acres) footprint located in urban neighborhood
- Tax Block 2289, Lot 14
- Seven story L-shaped building that fronts 2 streets
- Open courtyard area with adjacent small parking
- Basement level parking garage



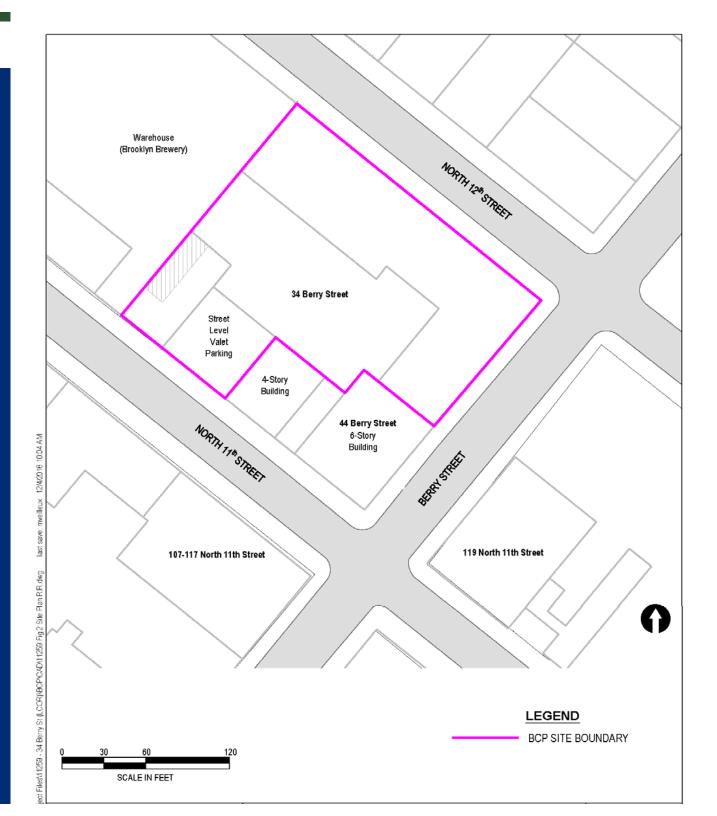
#### Greenpoint Ave Moultrie St Milton St Jewel St calyer st Noble St oak St Newel St Guernsey St Quay St Eckford St EAST RIVER Norman Ave BUSHWICK SITE LOCATION 46th PT Bayard St N 7th St att N Sth St. Richardson St N 6th St Frost St N 3rd St & Withers St Jackson St Area of Detail Skillman Ave Metropolitan Ave conselyea st Fillmore of Hope St Devoe St Ainslie St Service Layer Credits: USGS The National Map: 3d Elevation Program 2019. 800 1,600

SCALE IN FEET

### Site Location







### Site Plan



### **Site History**

- 1877-1951: Quinine manufacturing facility
  - included morphine, caffeine and ether storage
- 1965-2006: freight loading, warehouse, truck repair, forklift sales and service, parking lot
- 2006: All on-site buildings demolished
- 2008-2009 Construction of current site building
- February 2008: Owner reports a spill to NYSDEC based on findings of contamination related to petroleum storage tanks uncovered during development activities
- Under the NYSDEC Spill program, excavation and remediation of tank contamination began.



### Site History (cont'd.)

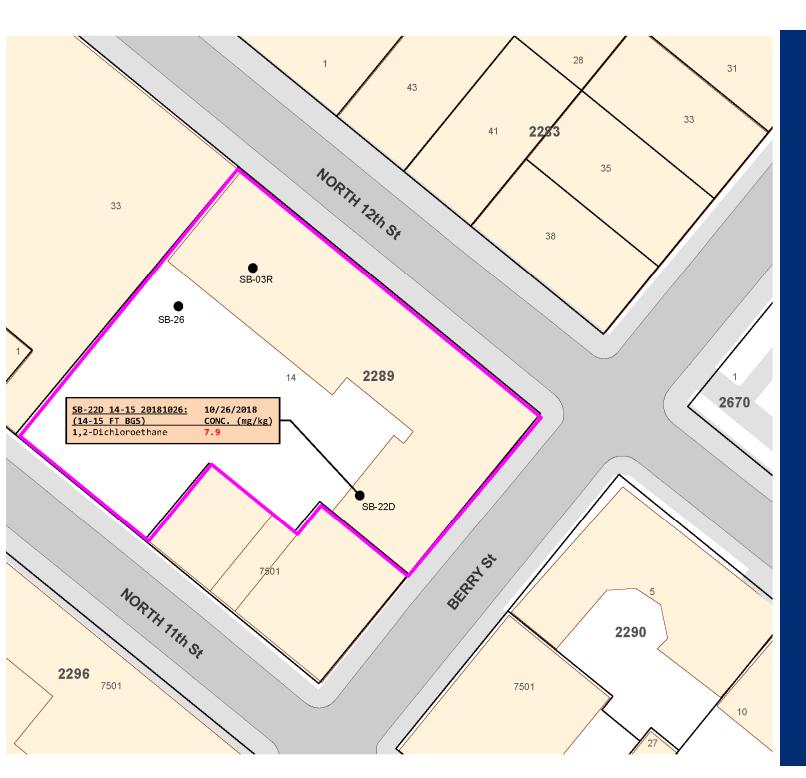
- 2009-2017: Owner continues to implement remedial actions related to the petroleum contamination under NYSDEC Spills program, including:
  - Excavation and disposal of contaminated soil, installation of a petroleum recovery system, vapor barrier, ventilation system for the basement level garage, and a passive subslab depressurization system
- 2017: Based on findings of chlorinated solvent contamination in groundwater unrelated to the petroleum, owner applies to NYSDEC Brownfield Cleanup Program (BCP)



### **BCP Investigation History**

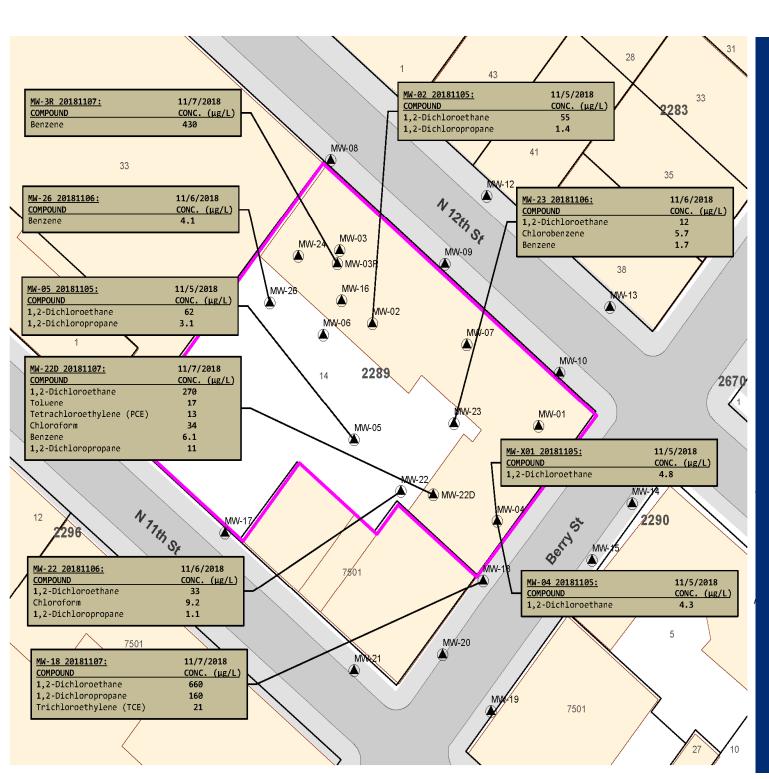
- October 2018 through August 2019 Remedial Investigation
  - Delineated areal and vertical extent of petroleum contamination in soil and groundwater caused by petroleum LNAPL in 2 distinct zones
  - Identified possible soil source of chlorinated solvent 1,2-DCA in soil (7.9 ppm)
  - Delineated 1,2-DCA contaminant plume in groundwater
  - Results are presented in the Remedial Investigation Report





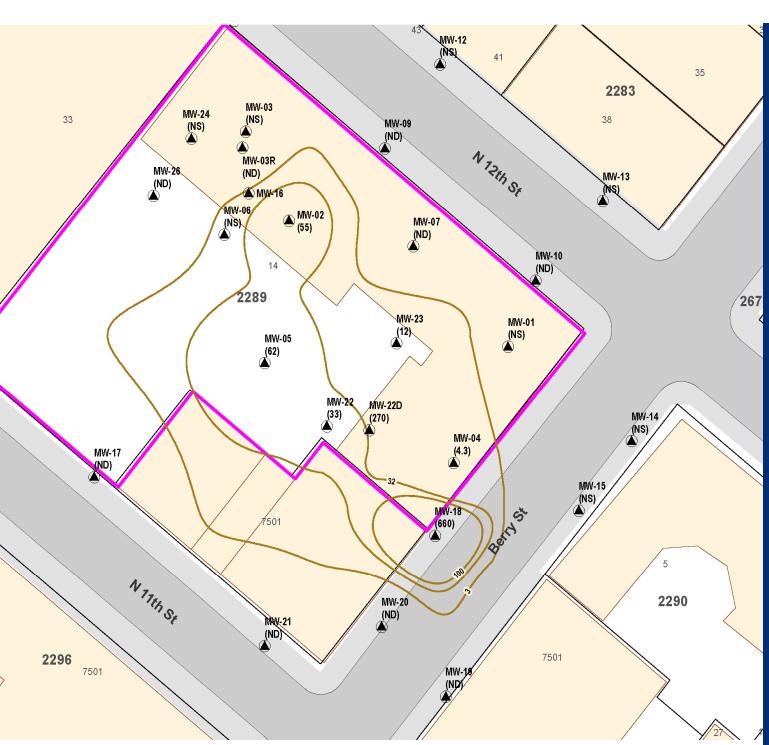
# Soil analytical results





# Groundwater analytical results





### 1,2-DCA in Groundwater



ap Source: (CDCD MIYC Dont of City Diamina) CIS databas

### Interim Remedial Measures (IRM)

- Upgrade and refurbishment of existing LNAPL recovery system:
  - Installation of one replacement recovery well
  - Installation of 5 new pumps in existing recovery wells
  - Replacement of the entire length of piping from the wells to the treatment system
  - Upgrade of oil water separator
  - Replacement of transfer pump and piping
  - Installation of new particulate filter

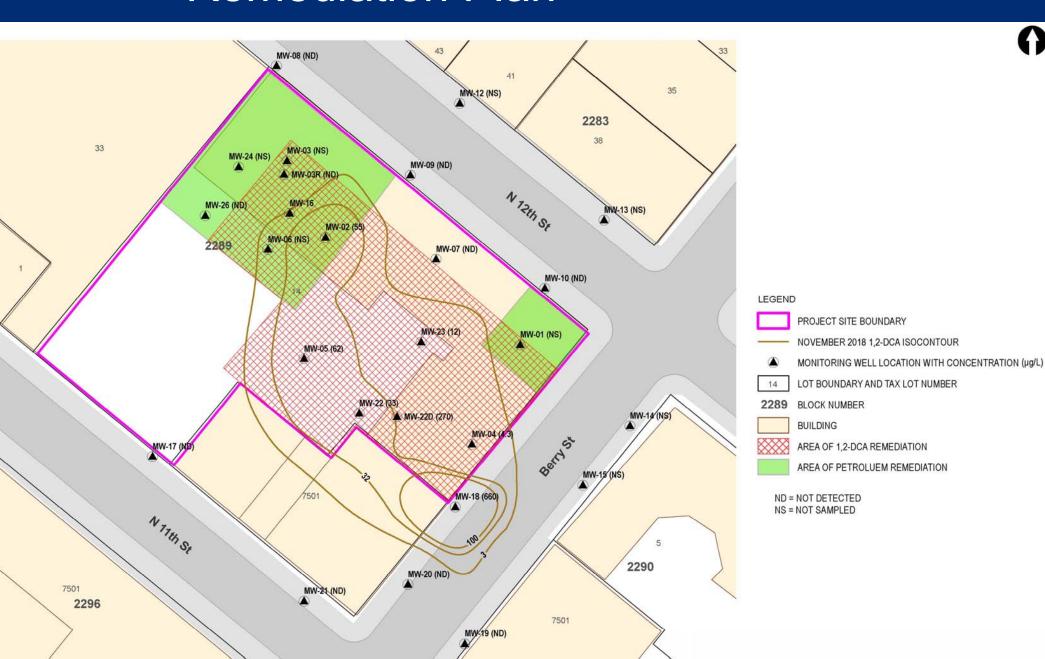


### Proposed Remedy

- Maintain the existing site cover, consisting of the building concrete slab and other paved or landscaped surfaces;
- Surfactant-Enhanced LNAPL recovery with groundwater recirculation;
- In-Situ Enhanced Bioremediation and Natural Attenuation to remediate 1,2-DCA;
- Post-remediation groundwater monitoring;
- Institutional and engineering controls (Easement and Site Management Plan); and
- Convert existing passive SSDS to active if bioremediation results in increased soil vapor generation.



### Remediation Plan

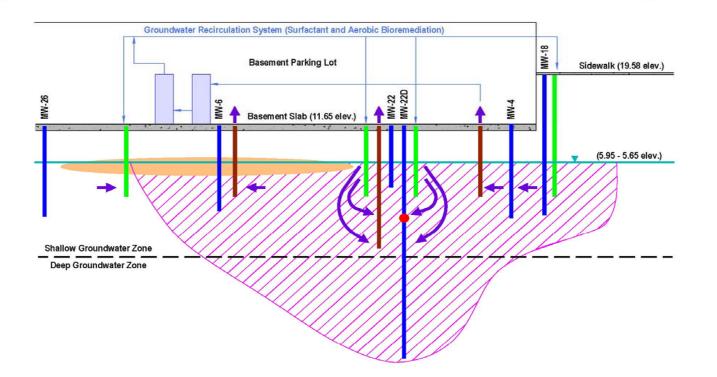


### **Treatment Area Cross Section**

В



KEY MAP SCALE: 1" = 100'



# WATER TABLE SOIL SOURCE AREA LNAPL AREA 1,2-DCA PLUME MONITORING WELL EXTRACTION WELL INJECTION WELL ANTICIPATED GROUNDWATER FLOW DIRECTION ABOVEGROUND PIPING AND FLOW

#### NOTES:

ELEVATIONS BASED ON NAVD 88 DATUM.
 INJECTION AND EXTRACTION WELL LOCATIONS
PROJECTED ONTO CROSS SECTION.

### Project Schedule

- Decision Document issued and RAWP approval expected in September 2020
- IRM is ongoing; will be documented in the Final Engineering Report
- Remedial Construction TBD



#### **Thank You**

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