



FACT SHEET	Voluntary Cleanup Program
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Receive Site Fact Sheets by *E-Mail*. See "For More Information" to Learn How.

Site Name: Federal-Mogul/Huck
DEC Site #: V00171
Address: 85 Grand Street
Kingston, NY 12401

Have questions?
See
"Who to Contact"
Below

Remedy Proposed for Voluntary Cleanup Site Contamination; Public Comment Period Announced

The New York State Department of Environmental Conservation (NYSDEC) has released a proposed cleanup plan for the Federal-Mogul/Huck site ("site") located at 85 Grand Street, Kingston, Ulster 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 plan for 30 days, from **February 28, 2018** through **March 30, 2018**. The proposed plan is available for public 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 Decision Document

The cleanup plan is described in NYSDEC's Proposed Decision Document. The proposed remedy consists of:

- Continued operation of the interim remedial measures already implemented,
- Maintenance of the existing site cover,
- Placement of an environmental easement on the property, and
- Implementation of a site management plan.

During the investigation of the site, interim remedial measures (IRMs) were performed to address site-related impacts to soil, groundwater, soil vapor and indoor air, both on-site and off-site. An interim remedial measure (IRM) is conducted at a site when a source of contamination or exposure pathway can be effectively addressed before issuance of the Decision Document. The following IRMs have been completed at this site based on conditions observed during the remedial investigation:

Soil Vapor Extraction Trench and Sub-Slab Depressurization Systems:

A soil vapor extraction (SVE) trench system was installed in February 2004 to collect and treat soil gas containing volatile organic compounds (VOCs) in shallow soils within 6 feet of the ground surface beneath the parking lots along the eastern and southern property boundaries and adjacent off-site areas, under the former manufacturing building near the main office, and former metal finish and chemical storage area. The SVE system consists of approximately 1,200 feet of

horizontal extraction pipe connected to a treatment system housed inside the main building. VOCs are physically removed from the soil by applying a vacuum which draws air through the soil matrix and carries the VOCs to the extraction piping network. The air extracted from the SVE piping network is then treated by passing the air stream through granular activated carbon which removes the VOCs prior to discharge to the atmosphere.

A sub-slab depressurization system (SSDS) was installed in March 2004 as an IRM in the basement of the two-story on-site office building to mitigate potential intrusion of vapor to indoor air. Nine below-grade suction points were installed in the main basement area and connected to a fan and exhaust stack at the west side of the building. Visible cracks and holes in the floor slab were sealed to improve the efficiency of the system.

Off-Site Sub-Slab Depressurization Systems:

Any off-site buildings impacted by the site were mitigated by the installation of sub-slab depressurization systems (SSDSs) to prevent the migration of vapors into the building from soil and/or groundwater. To date, SSDSs have been installed at 17 off-site locations to address potential indoor air impacts.

Air Sparging and Soil Vapor Extraction System:

The existing SVE trench system was enhanced in April 2014 with the installation of an air sparging and soil vapor extraction (AS/SVE) system to remediate the deeper soil and groundwater contaminated by volatile organic compounds (VOCs) found on-site. The existing SVE treatment system was augmented with an air compressor to inject air beneath the water table. VOCs are physically removed from the groundwater and soil below the water table by injecting air into the subsurface via a network of vertically-installed air sparge (AS) wells. As the injected air rises through the groundwater, the VOCs volatilize into the injected air and are carried into the unsaturated zone above the water table where a soil vapor extraction (SVE) system removes the injected air. The air extracted from the network of vertically-installed SVE wells is then treated by granular activated carbon prior to being discharged to the atmosphere. Seven AS wells and six SVE wells were installed in the former degreaser and former metal finish and chemical storage areas, and two AS wells and six SVE wells were installed in three isolated areas located west and southwest of the former manufacturing building. The same treatment system used to remove VOCs from the SVE trench system installed in 2004 also services the AS/SVE system.

Since implementing these IRMs on site beginning in 2004, a significant mass of contamination has been removed from soil and groundwater at the site, and their concentrations have declined substantially.

The proposed remedy was developed by Federal-Mogul Corporation ("volunteer(s)") after performing a detailed investigation of the site under New York's Voluntary Cleanup Program (VCP).

Summary of the Investigation

Based upon investigations conducted since 2002, the primary contaminants of concern include chlorinated volatile organic compounds (VOCs), namely trichloroethene (TCE) and tetrachloroethene (PCE). Other contaminants found at the site include semi-volatile organic compounds (SVOCs) benzo(a)anthracene, benzo(a)pyrene and benzo(b)fluoranthene at maximum concentrations that exceed soil cleanup objectives (SCOs) for commercial use, along with metals including lead, arsenic and cadmium. PCBs were not detected above commercial use SCOs in any of the soil samples.

Groundwater: Several groundwater investigations were performed on the site from 2002 through 2011. These investigations found the highest VOC concentrations in groundwater in two areas located under the former manufacturing building. VOCs detected in the groundwater include PCE, TCE, and their breakdown products. Evaluation of the vertical extent of VOCs in the groundwater indicated VOC levels above water quality standards were confined mainly to the upper ten feet of the groundwater table. The 2017 on-site groundwater sampling results show significant reduction in the concentrations of the primary contaminants in groundwater when compared to the 2008 sampling results. Levels of PCE dropped from 1,400 parts per billion (ppb) to 87 ppb, while TCE dropped from 6,800 ppb to 87 ppb. Continued operation of the treatment systems is expected to further reduce these levels.

Next Steps

NYSDEC will consider public comments, revise the plan as necessary, and issue a final Decision Document. New York State Department of Health (NYSDOH) must concur with the proposed remedy. After approval, the proposed remedy becomes the selected remedy. The Decision Document will be revised as needed to describe the selected remedy, and will be made available to the public. The volunteer(s) may then design and perform the cleanup action to address the site contamination, with oversight by NYSDEC and NYSDOH.

NYSDEC will keep the public informed throughout the investigation and cleanup of the site.

Background

Location: The Federal-Mogul Site is located at 85 Grand Street in the city of Kingston in Ulster County.

Site Features: The site consists of two buildings, a former manufacturing building and an attached office building, together occupying 105,000 square feet of the approximately 4-acre site. The remainder of the site consists of paved parking lots, access roads, a grassy area near the office building and narrow landscaped areas in the eastern and southern parking lots.

Current Zoning and Land Use: The site is zoned M-2 General Manufacturing, which includes wholesale storage and warehousing. The former manufacturing building houses self-storage units and the office building is used by a moving and truck rental company. Residential and commercial properties border the site across Tenbroeck Avenue to the northeast and residences and a vacant commercial building are located across Grand Street to the southeast. Two commercial properties, a bottle return center and a warehouse, adjoin the property to the south and CSX Transportation, Inc. (railroad tracks) border the site to the west. Commercial and light industrial properties are directly west of the CSX railroad tracks. All properties within a one-mile radius of the site are serviced by municipal water.

Past Use of the Site: The site has been in operation since 1889, used by various companies for automotive, electrical, and refrigeration supplies manufacturing. Site media have been impacted from various manufacturing processes that are known to have occurred at the site, including metal finishing, heat treating, degreasing, and chemical handling and storage. Chlorinated VOCs, SVOCs, metals, and PCBs have been identified in the soil and storm sewer sediment at the site, while metals and VOCs have also been identified in the groundwater at the site. A Phase I environmental assessment was performed in 1991 and Phase II investigations were performed in 1993 and 1997 to evaluate site conditions.

Based on the results of the Phase II investigations, Federal-Mogul entered into a Voluntary Cleanup Agreement with the New York State Department of Environmental Conservation on February 6, 2002 (Index no. A3-0372-9807) to investigate and remediate the site.

Site Geology and Hydrogeology: Site soils generally consist of 0 to 3 feet of sand or sand and gravel fill material that contains fragments of concrete, glass, asphalt, wood, and other construction debris. The fill material is underlain by a dark yellowish-brown, poorly sorted, fine- to medium-grained sand that grades to a silty sand with increasing depth. The silty sand is underlain by a low permeability clayey silt unit at a depth of approximately 68 feet below ground surface (bgs). The shallow water bearing zone is located approximately 13 to 15 feet bgs. Groundwater flows in a west-southwest direction across the site area.

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

<http://www.dec.ny.gov/cfmx/extapps/derexternal/haz/details.cfm?pageid=3&progno=V00171>

Voluntary Cleanup Program: New York's Voluntary Cleanup Program (VCP) was developed to encourage private sector volunteers to investigate and clean up contaminated properties and return these sites to productive use. Once cleaned up, the properties may be redeveloped for commercial, industrial, residential or public use.

For more information about the VCP, visit: <http://www.dec.ny.gov/chemical/8442.html>

FOR MORE INFORMATION

Where to Find Information

Project documents are available at the following location(s) to help the public stay informed.

Kingston Library
Attn: Margie Menard
55 Franklin Street
Kingston, NY 12401-0494
phone: (845) 331-0507

NYSDEC Region 3
Attn: Wendy Rosenbach
21 South Putt Corners Road
New Paltz, NY 12561-1696
phone: (845) 256-3154
(wendy.rosenbach@dec.ny.gov)

Who to Contact

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

Project Related Questions

Daniel Lanners
Department of Environmental Conservation
Division of Environmental Remediation
625 Broadway
Albany, NY 12233-7014
518-402-9652
daniel.lanners@dec.ny.gov

Site-Related Health Questions

Kristin Kulow
New York State Department of Health
28 Hill Street, Suite 201
Oneonta, NY 13820
(607) 432-3911
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.

Receive Site Fact Sheets by E-Mail

Have site information such as this fact sheet sent right to your e-mail 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*.



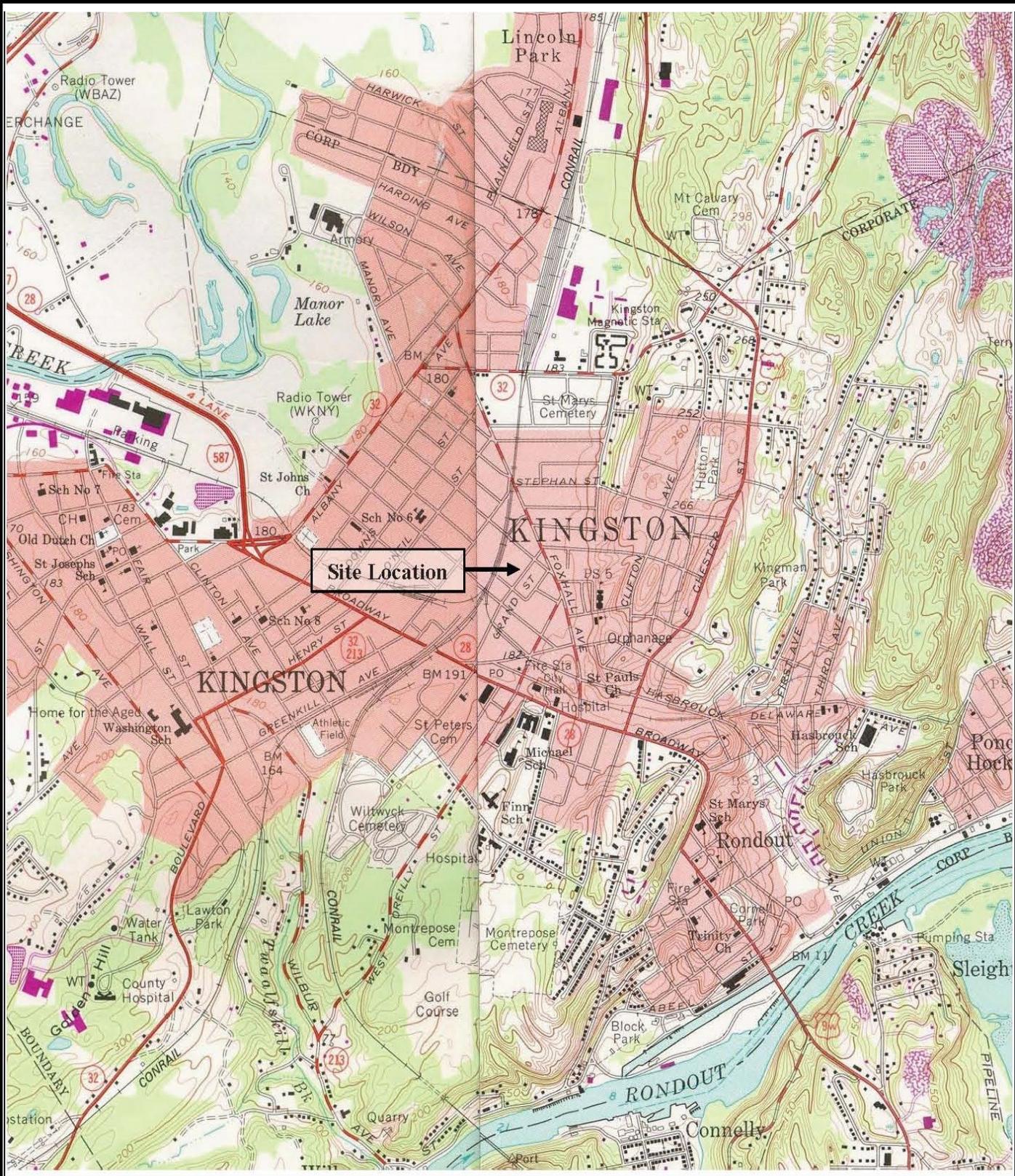
As a listserv member, you will periodically receive site-related information/announcements for all contaminated sites in the county(ies) you select.

DWG Name:

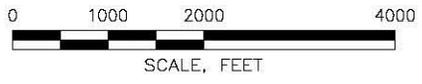
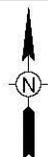
Checked:
Approved:

Drawn By:

A



REFERENCE:
 7.5 MINUTE SERIES TOPOGRAPHIC QUADRANGLE
 KINGSTON EAST, NEW YORK
 PHOTOREVISED 1980 SCALE 1:24,000



WSP USA
 5 Sullivan Street
 Cazenovia, New York 13035
 (315) 655-3900

FIGURE 1

SITE LOCATION MAP

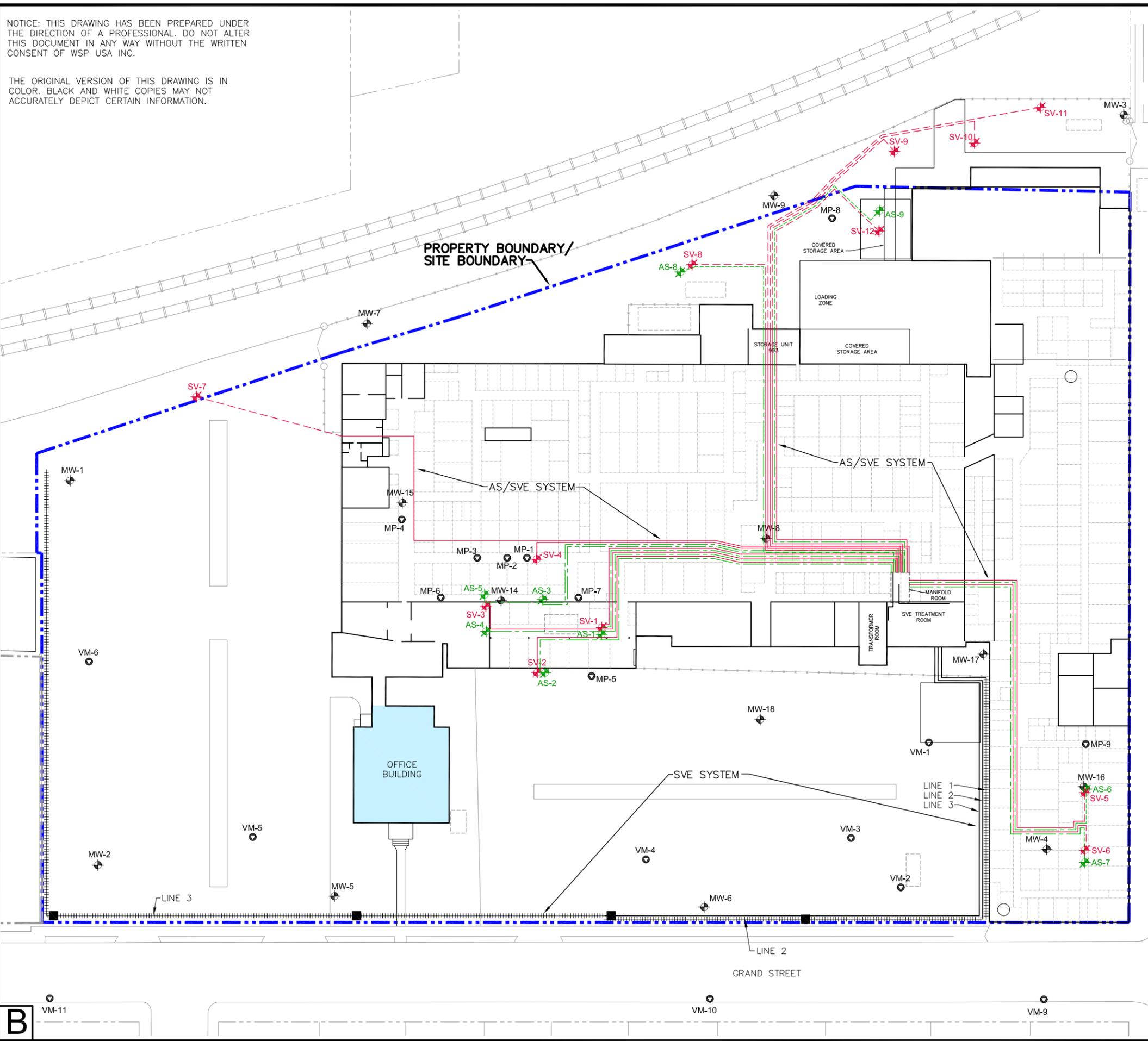
HUCK MANUFACTURING FACILITY
 KINGSTON, NEW YORK

PREPARED FOR
 FEDERAL MOGUL CORPORATION
 SOUTHFIELD, MICHIGAN

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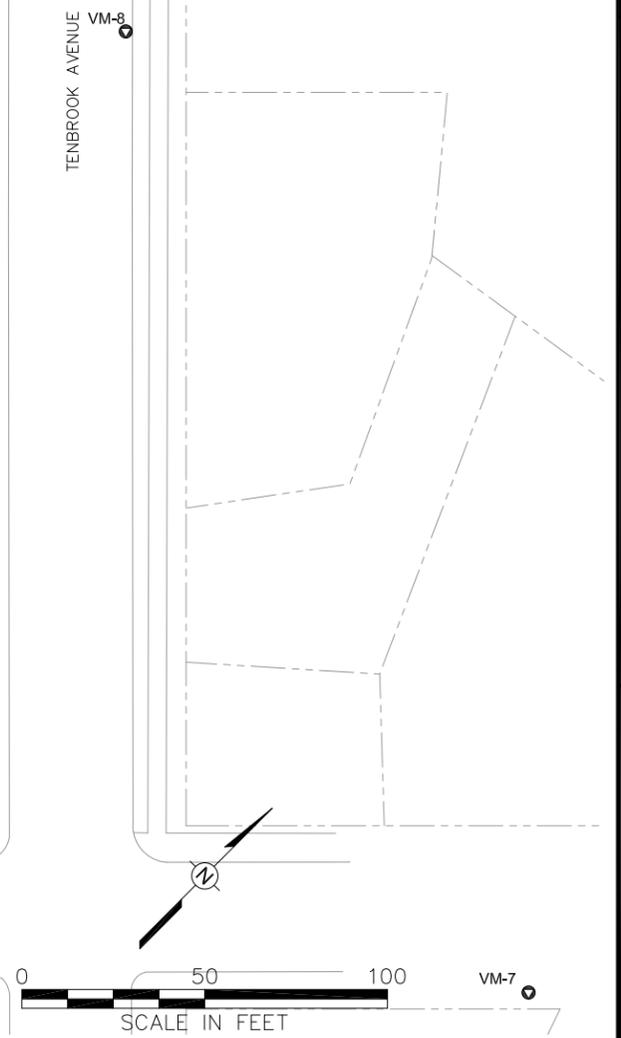
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- LEGEND**
- - - PROPERTY BOUNDARY/SITE BOUNDARY
 - MONITORING WELL
 - SUBSLAB DEPRESSURIZATION SYSTEM
- AS/SVE SYSTEM COMPONENTS:**
- MP-1 VACUUM MONITORING LOCATION
 - AIR SPARGING WELL
 - SVE WELL
 - 1.5" AS PIPING (HUNG IN BUILDING INTERIOR)
 - 4" SVE PIPING (HUNG IN BUILDING INTERIOR)
 - - - 1.5" AS PIPING (BURIED)
 - - - 4" SVE PIPING (BURIED)
- SVE SYSTEM COMPONENTS:**
- VM-1 VAPOR AND VACUUM MONITORING LOCATION
 - 6" EXTRACTION SCREEN
 - 6" EXTRACTION CONVEYANCE PIPING
 - VALVE BOX

- NOTES:**
1. SELF STORAGE UNIT LOCATIONS ARE APPROXIMATE.
 2. SVE SYSTEM INSTALLED IN FEBRUARY 2004.
 3. SUBSLAB DEPRESSURIZATION SYSTEM INSTALLED IN MARCH 2004.
 4. AS/SVE SYSTEM INSTALLED IN APRIL 2014.



<p>Drawn By: ECC</p> <p>Checked: <i>BES</i></p> <p>Approved: <i>BES 1/30/2018</i></p> <p>DWG Name: 314V0558-024</p>	<p>FORMER HUCK MANUFACTURING FACILITY</p> <p>KINGSTON, NEW YORK</p> <p>PREPARED FOR FEDERAL-MOGUL LLC</p>	<p>Figure 2</p> <p>INTERIM REMEDIAL MEASURES</p>
<p>WSP USA, Inc. 5 SULLIVAN STREET CAZENOVIA, NY 13035 TEL: +1 315.655.3900</p>		