NEW YORK STATE | Department of Environmental Conservation

February 2015

FACT SHEET

State Superfund Program

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Site Name: C&D Power Systems (C&D Batteries)
DEC Site #: 336001
EPA ID #: NYD064337298
Address: Route 209
Deerpark, NY 12746

Have questions? See "Who to Contact" Below

Remedy & Record of Decision Amendment Proposed for State Superfund Site/RCRA Project; Public Comment Period and Public Meeting Announced

Public Meeting, Thursday, 02/26/2015 at 7:00 PM
Deerpark Town Hall 420 Route 209, Huguenot, NY 12746

NYSDEC invites you to a public meeting to discuss the remedy proposed for 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 a remedy proposed by the New York State Department of Environmental Conservation (NYSDEC) related to the C&D Power Systems (C&D Batteries) site ("site") located at Route 209, Deerpark, Orange County. Please see the map for the site location.

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

How to Comment
NYSDEC is accepting written comments about the proposed plan for 30 days, from **February 16, 2015** through **March 18, 2015**. The proposed plan is available for review at the locations 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.

Site Classification
The site is listed as a Class "2" site in the State Registry of Inactive Hazardous Waste Sites. A Class 2 site represents a significant threat to public health or the environment and requires action. The site is subject to the New York State Hazardous Management Program (also known as the RCRA Program), which requires corrective action for releases of hazardous waste and hazardous constituents to the environment. This site is also subject to the Toxic Substance Control Act which governs the management of polychlorinated biphenyls (PCB) containing materials.

Proposed Change to the Original Remedy
On March 27, 2002, the NYSDEC signed a Record of Decision (ROD) which selected a remedy to clean up the site Operable Unit (OU) 01, the unsaturated lagoon soils (soils above groundwater). The ROD outlined a set of remedial actions for the site that included excavation and disposal of the top six to eight feet of the contaminated lagoon soil and above ground stabilization of the remaining contaminated unsaturated lagoon soil. Following the issuance of the ROD, investigations for OU 02, which consists of the saturated zone beneath the lagoon, tributary sediment, surface water, groundwater, and soil, were completed.

The remedial investigation for OU 02 identified problems with installing a sheet piling system which is part of the OU 1 remedy. Sheet piling is required to stabilize the adjacent building foundation and allow excavation of the unsaturated lagoon soils. Excavation of the contaminated lagoon soils below the groundwater table will be more difficult to excavate and will require additional sheet piling to address this material in accordance with the original remedy.

Based on the new information identified above, the NYSDEC is proposing to amend the ROD for OU 01 of the site and combine it with the OU 02 remedy selection. The proposed changes include:

- Excavation of the top four to six feet of the contaminated lagoon soil; and

- In-situ solidification. The contaminated soil will be mixed with stabilizing agents using an excavator or augers. The resulting low permeability mass will retard groundwater flow and inhibit the migration of contamination

Proposed Remedial Action Plan
NYSDEC developed the proposed remedy after reviewing the detailed investigation of the site and evaluating the remedial options in the “feasibility study” submitted under New York’s State Superfund Program by C&D Technologies Inc. and evaluating the remedial options in the “feasibility study” submitted under New York’s State Superfund Program by C&D Technologies Inc.

The proposed remedy addresses both OU 01 and OU 02 and supercedes the March 2002 ROD issued for OU 01. Upon issuance of the ROD, OU 01 and OU 02 will be combined into a single operable unit.

The remedy proposed for the site includes:

• Excavation and off-site disposal of contaminated lagoon soils to a depth of 4 to 6 feet.

• Excavation and stabilization of all on-site soil containing lead concentrations greater than the Part 375 commercial soil cleanup objectives (SCOs) and all off-site soil containing lead concentrations greater than Part 375 residential SCOs. Stabilization is a process that mixes agents with contaminated soil, modifying the contaminated soil so that it meets remedial goals and can be used as backfill in the lagoon.

• Solidification of remaining contaminated lagoon soils to the groundwater table, (approximately 28 feet bsg), and from the groundwater table to approximately 35 bsg in areas where the cadmium toxicity characteristic leaching procedure (TCLP) regulatory limit is exceeded. Exceedance of the TCLP regulatory limit means the contamination is a characteristic hazardous waste. The contaminated soil will be mixed with stabilizing agents using an excavator or augers. The resulting low permeability mass will retard groundwater flow and inhibit the migration of contamination.

• A site cover will be installed across the site to prevent exposure to remaining contamination. The cover will be either structures such as buildings, pavement, sidewalks, or a minimum of one foot of soil meeting the SCOs for cover material as set forth in NYS Regulation 6 NYCRR Part 375-6.7(d) for commercial use.

• Re-evaluation of off-site private well water in the area, including recommended actions to address exposures if contamination is identified.

• Removal of contaminated stream sediment down to a depth of 12 inches along approximately 1,132 linear feet of the stream bed. The sediment will be placed in the lagoon above the stabilized soils, below the cover system.

• Placement of an environmental easement on the property that will allow the use and development of the property for commercial and industrial uses (subject to local zoning laws) and restrict the use of groundwater for drinking or process water.

• Development of a site management plan (SMP) which will detail the soil management in the event of future excavations in addition to long-term monitoring.

Summary of the Investigation
The site has been divided into two operable units (OU 01 and OU 02). The investigation for OU 01, which was conducted between August 1999 and May 2001, focused on the unsaturated lagoon soils (i.e., above the groundwater). The ROD for OU 01 was issued in March 2002. The selected remedy for OU 01 included the removal of the unsaturated lagoon soils, ex-situ stabilization of soils, and disposal back into the lagoon. As such, it was necessary to complete the investigation and remedy selection for OU 02 prior to implementing the OU 01 remedy. Additional investigations for OU 02, were conducted between July 2001 and July 2008 and focused on the saturated zone beneath the lagoon, off-site sediment, surface water, on-and off-site groundwater, on- and off-site soil and sub-paved soil. The following is a summary of the findings:

Soil Contamination
Soils in the lagoon were found to exceed the commercial and groundwater protection SCOs for PCBs and metals including lead, cadmium, and barium. Surface soils and soils currently covered with pavement east and south of the main buildings are contaminated with lead above the residential and commercial SCOs. Fluoride, present in saturated lagoon soil, is likely the source of the groundwater contamination plume. There is no SCO for fluoride in soil. Cadmium concentrations were detected above the Toxicity Characteristic Leaching Procedure (TCLP) regulatory limit in the saturated lagoon soil to a depth of 35 feet bsg.

Groundwater Contamination
Groundwater both on- and off-site contains fluoride. The highest concentrations of fluoride in groundwater are near the former lagoon. Off-site impacts are limited; however, fluoride was detected up to 2,120 parts per billion (ppb), above the standard of 1,500 ppb. In 2000, one off-site residential well had fluoride levels that exceeded the drinking water standard. Subsequent well sampling found no contamination above the standard.

Off-Site Stream Sediment
Off-site stream sediments also contain lead, cadmium and PCBs in excess of the NYSDEC sediment quality criteria.

Next Steps
NYSDEC will consider public comments as it finalizes the remedy 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. A detailed design of the selected remedy will then be prepared, and the cleanup will be performed.

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

Background
Location: The C&D Power Systems site is located in the Hamlet of Huguenot in the Town of Deerpark, Orange County. The site is located approximately four miles northeast of the City of Port Jervis.

Site Features: The main site features include a large, unoccupied, industrial building formerly used for the manufacturing of batteries and an approximately 175-foot diameter wastewater treatment lagoon located 75 feet northeast of the plant building. The lagoon is about 15 feet. The site drops off rapidly to the northeast. Tributary D-1-7 to the Neversink River is located to the east/northeast and is currently accessible. The aquatic habitat of Tributary D-1-7 is consistent with the aquatic habitat preferred by the dwarf wedge mussel, a federal and New York State endangered species, known to inhabit the Neversink River.

Current Zoning and Land Use: The site is currently inactive, and is zoned for commercial use. Manufacturing operations at the site ceased in 2006. The site is in the Neversink River Valley and is bordered on the west by Route 209 and on the east by tributary D-1-7 to the Neversink River. The surrounding parcels are currently used for residential and commercial uses.

Past Use of the Site: From 1959 to approximately 1970, the facility was owned and operated by the Empire Tube Company (ETC), a manufacturer of black and white television tubes. Hydrofluoric acid was used in the manufacturing process to remove carbon and potassium silicate from the inside of the tubes. During this period, industrial wastewater was discharged to a lagoon adjacent to the northeastern corner of the plant building. C&D Technologies Incorporated operated at the facility manufacturing industrial lead batteries from the mid-1970s to 2006. From the mid-1970s until approximately 1982, C&D discharged non-contact cooling water into the lagoon.

The facility was formerly permitted to operate as a treatment, storage and/or disposal facility under the Resource Conservation and Recovery Act (RCRA) program. The site has been included in the USEPA’s tracking system under the Government Performance and Results Act for corrective action. The RCRA Corrective Action Program requires investigation and cleanup of hazardous wastes and hazardous constituents that pose an unacceptable risk that are released at RCRA hazardous waste treatment, storage and disposal facilities. This site is not yet in compliance with RCRA Corrective Action.

Operable Units: The site was divided into two operable units. An operable unit represents a portion of a site that for technical or administrative reasons can be addressed separately to investigate, eliminate or mitigate a release, threat of release or exposure pathway resulting from the site contamination.

Operable unit (OU) 01 consists of the unsaturated lagoon soils. OU 02 consists of the saturated zone beneath the lagoon, off-site tributary sediments, surface water, on- and off-site groundwater, on- and off-site soil and sub-paved soils.

The Record of Decision (ROD) for OU 01 was issued in March 2002. The selected remedy for OU 01 included removal of the unsaturated lagoon soils and stabilization of the soils and disposal back into the lagoon. As such, it was necessary to complete the investigation and remedy selection for OU 02 prior to implementing the OU 01 remedy.

Site Geology and Hydrogeology: The site and surrounding area is underlain by glacially deposited sand and gravel that gets coarser with depth. The thickness of the deposit ranges from less than 10 feet to approximately 150 feet. Depth to groundwater is approximately 30 feet. Groundwater flows southeast towards the unnamed tributary to the Neversink River which lies east of the site.

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=336001

State Superfund Program: New York's State Superfund Program (SSF) identifies and characterizes suspected inactive hazardous waste disposal sites. Sites that pose a significant threat to public health and/or the environment go through a process of investigation, evaluation, cleanup and monitoring.

NYSDEC attempts to identify parties responsible for site contamination and require cleanup before committing State funds.

For more information about the SSF, visit: http://www.dec.ny.gov/chemical/8439.html

FOR MORE INFORMATION

Where to Find Information

Project documents are available at the following locations to help the public stay informed.

Port Jervis Library
138 Pike Street
Port Jervis, NY 12771
Phone: (845) 856-7313

Deerpark Town Hall
420 Rt. 209
Huguenot, NY 12746
Phone: (845) 856-5705

NYSDEC Region 3 Office
21 South Putt Corners Road
New Paltz, NY 12561
Phone: (845) 256-3018
Please call for an appointment

Who to Contact

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

Project Related Questions
Jamie Verrigni
Department of Environmental Conservation
Division of Environmental Remediation
625 Broadway
Albany, NY 12233-7014
518-402-9662
jamie.verrigni@dec.ny.gov

Site-Related Health Questions
Kristin Kulow
New York State Department of Health
28 Hill St
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 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.

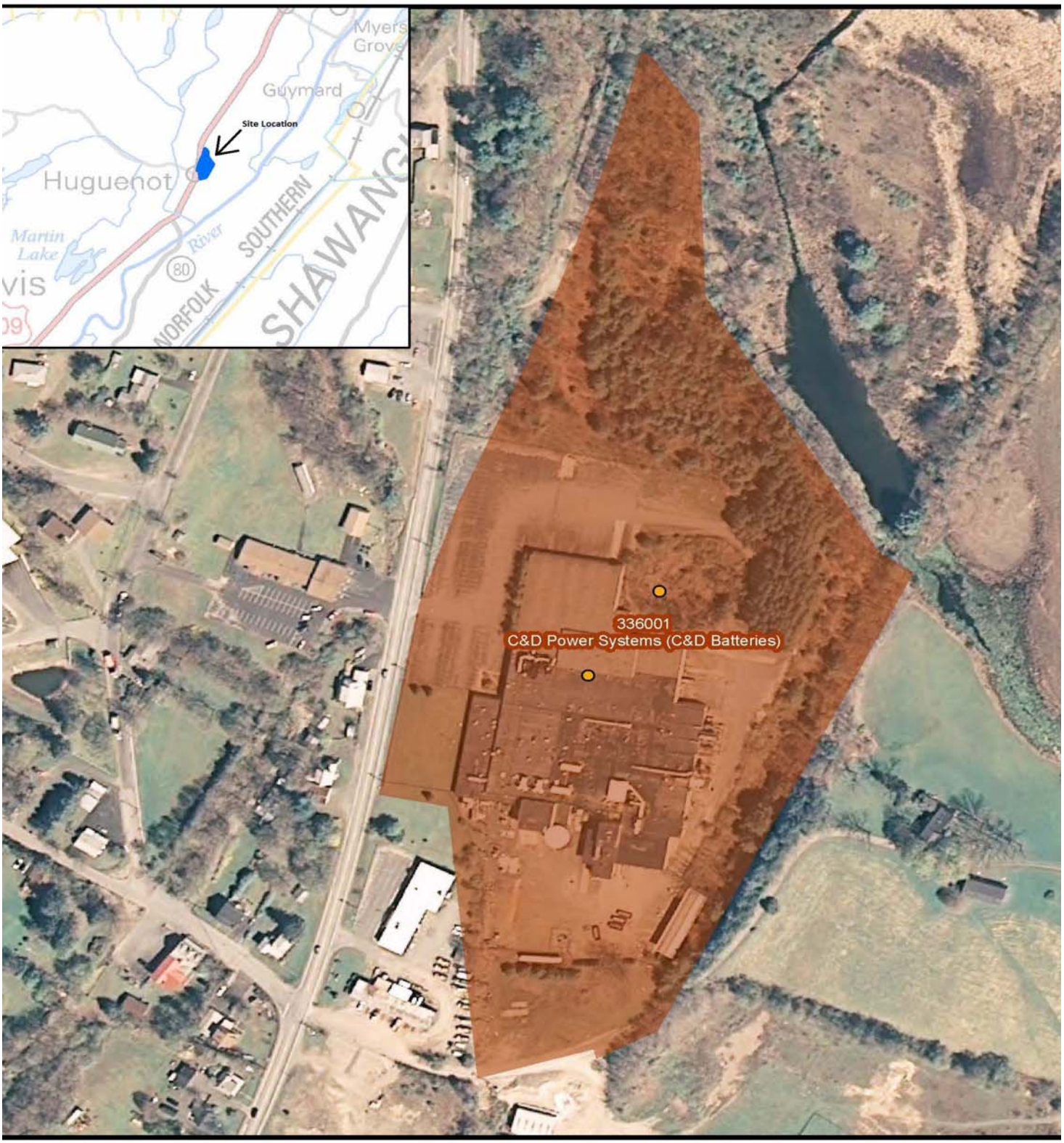

Figure 1
Site Location
C&D Power Systems
Site #336001