

FINAL PLAN OF REMEDIAL ACTION



DuPont Louviers- Gore Large Bore Range Site (DE-1050)

DuPont Louviers- Gore Large Bore Range Site
Newark, DE

March 26, 2012
DNREC Project No. 1050

This Final Plan of Remedial Action (Final Plan) presents the Department of Natural Resources and Environmental Control's (DNREC's) determination that DuPont Louviers- Gore Large Bore Range Site was remediated to unrestricted use for lead under the 1996 remedial actions and does not require additional remedial actions for lead.

DNREC issued public notice of the amended Proposed Plan for the Site on March 4, 2012 and opened a 20-day public comment period, which ended on March 23, 2012. The 1996 original Proposed and Final Plan of Remedial Action had a clean-up goal for a restricted use for lead with an environmental covenant. The remedial action was performed in 1996 to remove the lead contaminated soil. Post excavation samples showed that the Site was cleaned up to the unrestricted use cleanup level for lead. As a result, the original proposed environmental covenant is not required. The Proposed Plan of Remedial Action amended the 1996 Proposed and Final Plans of Remedial Actions and requires no further remedial actions for lead.

The Proposed Plan and the original 1996 Proposed and Final Plans of Remedial Actions also includes the location of additional information found on the DNREC web page and in the DNREC office at Lukens Drive in New Castle. There were no comments or questions from the public regarding the Proposed Plan. Therefore, the Proposed Plan was adopted as the Final Plan (see attached).

Approval:

This Final Plan meets the requirements of the Hazardous Substance Cleanup Act.



Timothy Ratsep, Program Administrator
Division of Waste and Hazardous Substances



PROPOSED PLAN OF REMEDIAL ACTION- AMENDED
DuPont Louviers- Gore
Large Bore Range Site
Newark, Delaware

DNREC Project No. DE-1050

Amended March 2012

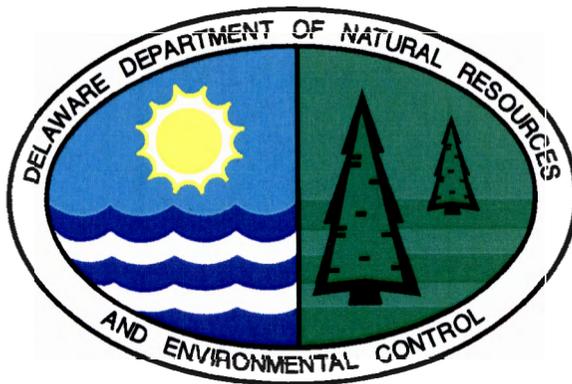
Delaware Department of Natural Resources and Environmental Control
Division of Waste and Hazardous Substances
Site Investigation & Restoration Section
391 Lukens Drive
New Castle, Delaware 19720

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PROPOSED PLAN OF REMEDIAL ACTION- AMENDED

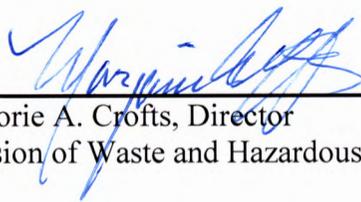
DuPont Louviers- Gore
Large Bore Range Site
Newark, Delaware
DNREC Project No. DE-1050



Approval:

This Proposed Plan meets the requirements of the Hazardous Substance Cleanup Act.

Approved by:



Marjorie A. Crofts, Director
Division of Waste and Hazardous Substances

2.28.12

Date



What is the DuPont Louviers- Gore Large Bore Range Site? The Site is a Delaware Voluntary Cleanup Site (DE-1050) located southwest of Possum Park Road, off of Papermill Road in Newark, Delaware (Figure 1). The vacant property is owned by W.L. Gore and Associates, Inc. and is currently covered with vegetation (Figure 2). The Site is approximately 200 yards long by 100 yards long and is currently covered with vegetation. There are no development plans for the property.

Tax Parcel Number: The Site is a portion of the property (0804600002)
Address: Papermill Road, Newark
Nearest major intersection: Possum Park Road and Papermill Road
Area: approximately 200 yards long by 100 yards long
Surrounding Property: Surrounding land use is commercial
Zoning: Commercial
Site Utilities: Water, gas and sewer utilities are available
Surface water: The closest surface water body is the White Clay Creek, approximately 500 feet west of the Site.

What happened at the DuPont Louviers- Gore Large Bore Range site? The Site operated as a gun range from 1952 to 1995. The Proposed Plan of Remedial Action (PPRA) was advertised in June 1996. The Proposed Plan of Remedial Action stated that the Site would be remediated to the restricted use standard of 1000 ppm for lead and would require an environmental covenant restricting the land use. However, the Site was remediated to the unrestricted use standard of 400 ppm for lead. As a result, the proposed environmental covenant for lead is not necessary and the original PPRA must be amended to reflect that.

What is the environmental problem at the DuPont Louviers- Gore Large Bore Gun Range? Prior to the 1996 remediation, the Site was impacted with lead from the previous gun range use. A remedial action was performed in 1996 removing the lead contaminated soil. The previous Proposed Plan of Remedial Action called for restricting the property use. However, because the post excavation samples results for lead were below the residential/unrestricted use, the Proposed Plan is being amended to reflect that a property restriction for lead is not needed.

Results of the post excavation samples for lead are below the unrestricted use level of 400 ppm. The previous Plan of Remedial Action stated that the site had a cleanup goal of 1000 ppm for

lead with an environmental covenant limiting the land use to commercial/restricted use. Because of the results of the post excavation samples, an environmental covenant for lead is not necessary and the Final Plan of Remedial Action needs to be amended.

What does the owner want to do at the DuPont Louviers- Gore Large Bore Range Site? Currently there are no development plans for the property. The property is currently part of the W.L. Gore and Associates complex.

What clean-up actions are needed at the DuPont Louviers- Gore Large Bore Range Site? The Site was remediated to unrestricted use standards for lead in 1996. As a result, no other remedial actions for lead are needed.

While the 1996 Proposed and Final Plans of Remedial Action stated that the Site would be remediated to the restricted use cleanup level of 1,000 ppm for lead, the Site was remediated to unrestricted use standards for lead. As a result, no further remedial actions for lead are necessary at this Site. This Proposed Plan of Remedial Action amends the 1996 Final Plan of Remedial Action.

What are the long term plans for the Site after the cleanup? Currently there are no development plans for the Site.

DNREC plans to issue a Certification of Completion of Remedy once the amended Final Plan has been noticed and finalized.

How can I find additional information or comment on the Proposed Plan?

The complete file on the Site including the original 1996 Proposed and Final Plans of Remedial Actions and this amended Proposed Plan is available at the DNREC office, 391 Lukens Drive in New Castle. Most documents are also found on:

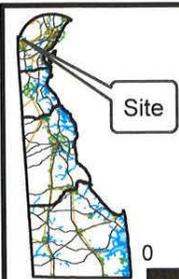
<http://www.nav.dnrec.delaware.gov/DEN3/>

The 20-day public comment period begins on March 4, 2012 and ends at close of business (4:30 pm) on March 23, 2012. Please send written comments to Robert Newsome, Public Information Officer, or Morgan Price, Project Manager, at 391 Lukens Drive, New Castle, DE 19720.

Figure 1: Site Location Map

Figure 2: Site Map

MMP:vdh; MMP12008.doc; DE 1050 II B 8



KDHGIS2012_012



0 1:12,500 0.25 Miles



**FIGURE 1
SITE LOCATION MAP
DE-1050
DUPONT LOUVIERS-GORE
NEWARK, DELAWARE**

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KDHGIS2012_011



0 100 Feet 1:1,200



FIGURE 2
DE-1050
DUPONT LOUVIERS-GORE
NEWARK, DELAWARE

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Glossary of Terms Used in this Proposed Plan

Brownfield	Property that is vacant or underutilized because of the perception or presence of an environmental problem.
Certified Brownfield	A brownfield that DNREC has determined is eligible for partial funding through the Delaware Brownfields Program.
Contaminant of Concern (COC)	These are potentially harmful substances at concentrations above acceptable levels (e.g. metals and PAH).
Certificate of Completion of Remedy (COCR)	A formal determination by the Secretary of DNREC that remedial activities required by the Final Plan of Remedial Action have been completed.
*Exposure	Contact with a substance through inhalation, ingestion, or direct contact with the skin. Exposure may be short term (acute) or long term (chronic).
Final Plan of Remedial Action	DNREC's proposal for cleaning up a hazardous site after it has been reviewed by the public and finalized.
Hazardous Substance Cleanup Act (HSCA)	Delaware Code Title 7, Chapter 91. The law that enables DNREC to identify parties responsible for hazardous substances releases and requires cleanup with oversight of the Department.
Human Health Risk Assessment (HHRA)	An assessment done to characterize the potential human health risk associated with exposure* to site related chemicals.
Proposed Plan of Remedial Action	A plan for cleaning up a hazardous site submitted by DNREC and subject to public comments.
Risk	Likelihood or probability of injury, disease, or death.
Risk Assessment Guidance for Superfund (RAGS)	An EPA guidance document for superfund sites
Site Specific Assessment (SSA) and Site Inspection (SI)	Environmental studies of a site including sampling of soils, groundwater, surface water, sediment and/or wastes on the property.

What is a *Proposed Plan*?

A Proposed Plan of Remedial Action (Proposed Plan) is a summary of how DNREC plans to clean up a contaminated site. A Final Plan of Remedial Action (Final Plan) is the adoption of the Proposed Plan, after all comments made by the public within the comment period of twenty days have been considered and addressed by DNREC.

The Delaware State Legislature passed the Hazardous Substance Cleanup Act (HSCA) in 1990. The Legislature made sure that members of the public would be informed about environmental problems in their own neighborhoods and have a chance to express their opinion concerning the cleanup of those environmental problems before DNREC takes action.

After DNREC studies a site, it summarizes the problems there and proposes one or more possible solutions in a Proposed Plan. The Proposed Plan contains enough information to allow lay persons to understand the site. More detailed information can be found in the reports and documents approved by DNREC. All of the documents and reports created by DNREC or consultants during the course of the investigation of the site are available to the public at the offices of DNREC-SIRB or at DNREC's website:

<http://www.nav.dnrec.delaware.gov/DEN3/>

DNREC issues the Proposed Plan by advertising it in at least one newspaper in the county where the site is located. The legal notices for the Proposed Plans and the Final Plans usually run on Wednesdays or Sundays in the legal classified section of the News Journal and/or the Delaware State News. The public comment period begins on the day (Wednesday), or the day after (Sunday) the newspaper publishes the legal notice for the Proposed Plan.

DNREC frequently holds public meetings during the comment period. Those meetings are usually held near the site in the evening. Citizens can request a public meeting if DNREC did not already schedule one.

Comments are collected at the public meetings, by phone or in writing. DNREC considers all comments and questions from the public before the Proposed Plan is finalized and adopted as a Final Plan.
