FINAL PLAN OF REMEDIAL ACTION

SUSSEX CO LANDFILL #1 – BRIDGEVILLE

Oak Road (Rd 594) *April 2014*
Bridgeville, Delaware *DNREC Project No. DE-0122*

This Final Plan of Remedial Action (Final Plan) presents clean-up actions required by the Department of Natural Resources and Environmental Control (DNREC) to address environmental contamination at the Sussex County Landfill #1 Bridgeville.

DNREC issued public notice of the Proposed Plan of Remedial Action (Proposed Plan) for the Sussex County Landfill #1 on March 19, 2014 and opened a 20-day public comment period. The Proposed Plan is attached. There were no comments from the public; therefore, the Proposed Plan is adopted as the Final Plan.

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

Timothy T. Ratsep, Program Administrator
Site Investigation and Restoration Section

April 30, 2014
Date

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PROPOSED PLAN OF REMEDIAL ACTION

Sussex County Landfill #1 Bridgeville Site

Bridgeville, Delaware
DNREC Project No. DE-0122

March 2014

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

Sussex County Landfill #1 Bridgeville Site
Bridgeville, Delaware
DNREC Project No. DE-0122

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

Approved by:

Timothy Ratsep, Environmental Program Administrator
Site Investigation & Restoration Section

March 18, 2014
Date

Sussex County Landfill #1
Bridgeville Site

What is the Proposed Plan of Remedial Action?

The Proposed Plan of Remedial Action (Proposed Plan) for Sussex County Landfill # 1 Bridgeville Site "Site" summarizes the remedial actions that are being proposed to address contamination found at the Site. A legal notice of the Proposed Plan is published in the newspaper for a 20-day comment period. DNREC considers and addresses all public comments received and publishes a Final Plan of Remedial Action (Final Plan) for the Site.

What is the Sussex County Landfill #1 Bridgeville Site?

The Site is located on Oak Road (Rd 594) in Bridgeville, DE. The nearest intersection is Oak Road (Rd. 594) and Seashore Highway (DE Rt. 18/404). The landfill is owned by Sussex County. The landfill portion of the Site encompasses approximately 52 acres and it has been inactive since 1993. (See Figure 1)

What happened at the Sussex County Landfill #1 Bridgeville Site?

The Site accepted municipal solid waste for disposal from 1969 until 1984. Waste was deposited onsite into excavated trenches, and covered with approximately two feet of soil. The disturbed areas were allowed to re-vegetate. After landfill operations concluded in 1982, a transfer station was located at the Site for residential waste collection. All waste collected at the Site was transferred to the Delaware Solid Waste Authority's Jones Crossroads Landfill until the transfer station closed in 1993.

What is the environmental problem at the Sussex County Landfill #1 Bridgeville Site?

Due to the burial of municipal waste, a Groundwater and Surface water Evaluation was performed in December 1982. It was determined that the landfill activities contaminated the groundwater with inorganics and volatile organic compounds (VOC). A Site Inspection was performed on the landfill in July of 1988 to further evaluate the groundwater conditions.

What clean-up actions have been taken at the Sussex County Landfill #1 Bridgeville Site?

Pursuant to agreements reached with DNREC, the following actions have been conducted by Sussex County at the Site:

- Groundwater monitor wells were installed and a monitoring program including these monitor wells, residential supply wells, and surface water has been ongoing since 1979.
- Two Memorandums of Understanding (MOUs) between the DNREC and Sussex County were executed in 1988 and 2000. All Site work items were completed by Sussex County.
- A Groundwater Management Zone (GMZ) was established at the Site in 1988 to regulate the installation of supply wells within the designated GMZs around the Site. Sussex County continues to work closely with DNREC to ensure GMZ compliance.
- A central water supply system operated by Tidewater Utilities was installed in 1996 and serves the Walker's Mill Park, and other residential properties adjacent to the Site.
- The DNREC approved a final Closure Plan for the Site in 2003. All Site work items were completed by Sussex County.
- All surface debris was removed from the Site, and areas where erosion occurred and debris was exposed have been filled and graded. Natural vegetation of the soil cap continues.
- The Site has been partially fenced to help prevent illegal entry onto the Site. Sussex County routinely inspects the fencing, the landfill area, and oversees the removal of any illegally disposed municipal waste around the Site.
- An Operations & Maintenance (O&M) Plan for the Site was approved by the DNREC in May 2005. Sussex County has complied with this approved O&M plan for their continued implementation of the GMZ requirements, groundwater and surface water monitoring, the monthly and annual Site inspections, the submission of annual Site reports to DNREC, and for any necessary maintenance activities required for the Site.
- The final report associated with the Gas Monitoring Program for the Site was approved by the DNREC in August 2007. No further action was required.

What does the owner want to do at the Sussex County Landfill #1 Bridgeville Site?

There are no plans to develop the Site. It will remain heavily vegetated with tall grasses, shrubs, and woodlands.

What additional clean-up actions are needed at the Sussex County Landfill #1 Bridgeville Site?

DNREC proposes the following remedial actions for the Site, which needs to be completed before a Certification of Completion of Remedy (COCR) can be issued:

1. An Environmental Covenant, consistent with Delaware's Uniform Environmental Covenants Act (Title 7, Del. Code Chapter 79, Subtitle II) (UECA), will be recorded in the office of the Recorder of Deeds to include the following:

    a. Use Restriction: Use of the Property shall be restricted solely to those non-residential type uses permitted within Commercial, Manufacturing, or Industrial Districts;

b. Interference with Remedy: There shall be no digging, drilling, excavating, grading, constructing, earth moving, or any other land disturbing activities on the Property unless it is directly related to O&M Plan;

c. Limitation of Groundwater Withdrawal: No groundwater wells shall be installed, and no groundwater shall be withdrawn from any well, on the Property without the prior written approval of DNREC-SIRS and DNREC Division of Water;

d. Compliance with Operations and Maintenance Plan. Perform all work required by the Operations and Maintenance Plan ("O&M Plan"), as issued, approved, modified or amended by DNREC.

2. Continued implementation of DNREC-approved O&M Plan. The O&M Plan details: 1) the groundwater monitoring network and schedule followed annually in order to monitor the attenuation of the groundwater Contaminants of Concern (COCs), and 2) the inspection schedule followed annually in order to ensure the long-term integrity of the remedy

What are the long term plans for the Site after the cleanup?

The Site will remain heavily vegetated with tall grasses, shrubs and woodlands, and serve as green space and a wildlife habitat.

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

The complete file on the Site including the Remedial Investigation Report and the various reports are available at the DNREC office, 391 Lukens Drive in New Castle, 19720. Most documents are also found on:

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

The 20-day public comment period begins on March 23, 2014 and ends at close of business (4:30 pm) on April 14, 2014. Please send written comments to the DNREC office at 391 Lukens Drive, New Castle, DE 19720 to Krystal A. Stanley, Project Officer, or Robert Newsome, Public Information Officer.

Figure 1: Site Location Map

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Figure 1: Site Location Map

Glossary of Terms Used in this Proposed Plan

Certification 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.
Final Plan of Remedial Action	DNREC's adopted plan for cleaning up a site.
Groundwater Management Zone (GMZ)	A geographical area where DNREC regulates ground water use.
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.
Site Investigation Restoration Section (SIRS)	Site Investigation Restoration Section of DNREC, which oversees cleanup of sites that were contaminated as a result of past use.