DEWEY LOEFFEL LANDFILL SUPERFUND SITE
SEPTEMBER 2015 PROJECT UPDATE

WATER TREATMENT PLANT & NEW EXTRACTION WELLS

The water treatment plant at the Dewey Loeffel Landfill Superfund Site is operating at a flow rate of approximately 5.3 gallons per minute, as measured on September 9, 2015. In July and August 2015, an increase in 1,4-dioxane concentrations (up to 6.8 parts per billion (ppb)) in the treated water from the plant was attributed to the plant's carbon filtration system. To ensure the maximum effectiveness of the treatment plant, the first carbon filter unit (known as the lead carbon filter) was replaced on August 20, 2015. The second carbon filter unit (known as the lag carbon filter) was temporarily taken out of service on August 21, and then replaced on August 27. During the time that the lag carbon filter was out of service, treated water was discharged from the plant after it had been processed through both the specialized treatment system for 1,4-dioxane (the HiPOx unit) and the lead carbon filter unit. Data collected to date has demonstrated that the HiPOx unit is working effectively.

Both new carbon filter units were operational as of August 28. Data collected after the carbon filters were replaced has shown a decrease in the 1,4-dioxane concentration in the treated discharge (0.14J ppb on August 28, non-detect on September 1, and 0.03J ppb on September 9). Sampling data from the treated water at the plant is available on the EPA Dewey Loeffel site webpage: http://www.epa.gov/region2/superfund/npl/dewey/.

The April 2012 agreement with GE and SI Group for the construction and operation of the water treatment plant required, among other things, the installation of five additional groundwater extraction wells along the western edge of the landfill. The five added extraction wells serve to collect additional contaminated groundwater for treatment. They are located closer to the landfill than the three previously-installed extraction wells.

The five added extraction wells were installed between March 2014 and November 2014. Each of the added extraction wells are being brought online one at a time, with a flow of 0.5 gallons per minute for each well. To date, three of the five added extraction wells have come online since July 2015. The other two remaining wells are scheduled to come online in four-week cycles. This schedule brings all five of the added extraction wells, referred to as EW-4 through EW-8, online by approximately November 2015.

GE and the SI Group are preparing a Construction Completion Report, which will include a final Operation, Maintenance, and Monitoring Plan for the treatment plant system.

REMEDIAL INVESTIGATION/FEASIBILITY STUDY (RI/FS): SURFACE DRAINAGEWAYS

In August 2015, EPA approved the Phase 1 Remedial Investigation Work Plan for the Drainageways and the associated Quality Assurance Project Plan. The Work Plan is available on the EPA Dewey Loeffel site webpage: http://www.epa.gov/region2/superfund/npl/dewey/docs.html.

GE has begun outreach to some private landowners to request property access for the Phase 1 Remedial Investigation activities. Initial field assessment activities are expected to begin by the end of

September. Thereafter, sampling activities, which will include collection and analysis of samples from the surface drainageways, including the Valatie Kill, Nassau Lake and Valley Stream, are expected to begin by early to mid-November 2015.

Following the completion of Phase 1 activities, GE will submit a Site Characterization Summary Report. The Site Characterization Summary Report will include a summary of existing data for the surface drainageways and an evaluation to determine what additional data needs to be collected as part of the study of the drainageways. Following EPA approval of the Site Characterization Summary Report, GE will submit a work plan for the completion of the study of the drainageways.

REMEDIAL INVESTIGATION/FEASIBILITY STUDY (RI/FS): LANDFILL - GROUNDWATER

GE and SI Group submitted the revised RI/FS Work Plan for the Landfill-Groundwater to EPA in September 2015. EPA is reviewing the work plan to ensure that the Agency's comments have been appropriately incorporated. EPA anticipates that the work plan will be finalized in October 2015 and that most RI/FS activities, except for a few discussed below, will begin thereafter. Once approved, the RI/FS work plan will be available on the EPA Dewey Loeffel site webpage and in the site repository located at the Nassau Free Library.

In August 2015, with approval from EPA, GE and SI Group measured water levels and assessed water quality in Valley Stream. EPA provided advanced approval for this limited set of activities because the work is constrained by the season and conditions of the stream. As a next step, in late September and early October, samples will be collected in Valley Stream to assess groundwater and surface water interaction.

RESIDENTIAL WELL SAMPLING PROGRAM

Residential wells with individual treatment systems are sampled on a quarterly basis. These residential wells were last sampled in August 2015 and will be sampled again in November 2015. Residential wells without treatment systems are sampled on an annual basis except for a subset of those wells which are sampled on a semi-annual basis. Annual sampling for residential wells without treatment systems is scheduled for October 2015. The semi-annual sampling for residential wells without treatment systems was conducted in May 2015 and will be sampled again in October. Upcoming sampling events are subject to change based on the resident's availability.

FISH SAMPLING

Annual fish sampling in the Valatie Kill and Nassau Lake was conducted by GE in late June and in early July 2015, with oversight by EPA and the New York State Department of Environmental Conservation. Following receipt of the analytical results, GE will generate a fish sampling report to summarize the 2015 results. EPA expects to receive that report in the winter of 2016.

The report from the 2014 fish sampling event is available on EPA's Dewey Loeffel site webpage: http://www.epa.gov/region2/superfund/npl/dewey/docs.html.

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