

November 3, 2004

BROWN AND
CALDWELL

Mr. John Regan, Section Chief
Division of Solid Waste Management
Massachusetts Department of Environmental Protection
627 Main Street
Worcester, Massachusetts 01608

Subject: Hopkinton - Post-Closure Use, BWP SW 36;
Final Permit; Transmittal #W033208; Storm Water Basin Design

Dear John:

This letter has been prepared to respond to Condition No. 7 of the above referenced Final Permit issued by your office, dated October 29, 2004, for the post closure use at the Hopkinton Sanitary Landfill (landfill) located on Wood Street in Hopkinton, Massachusetts. This letter specifically describes the design of the proposed storm water detention pond to be located west of the landfill and requests Department approval of that design.

Included with this letter are the drainage figures for the Pre-Development (Figure 1) and Post-Development (Figure 2) conditions, and the HydroCAD Output (Appendix A). We have also provided the details describing the outlet structures from the detention basin. Please note that this design information is the same information that was recently approved during the Hopkinton Board of Appeals review and approval process for the special use permits sought by E.L. Harvey & Sons, Inc. for its proposed Hopkinton Materials Recovery and Recycling Facility (MRRF).

The surface water hydrology analysis reflects the current site plan and drainage design. The surface water hydrology is modeled in HydroCAD and the output data are attached as Appendix A. Figures 1 and 2 describe the Pre-Development and Post-Development drainage areas. Table 1 compares Pre-Development and Post-Development flows off site for the 2-, 10-, and 100-year storm events. For all 3 storm events, the combined Post-Development peak flow leaving the site is less than the Pre-Development peak flow leaving the site.

The final storm water basin design is based on full build-out of the proposed MRRF. The basin is designed to receive storm water run-off from 11.1 acres of impervious area taking into account the runoff from the roof-tops of the maintenance building and the MRRF basin. Since 21,000 cubic feet of runoff will be routed and discharged to groundwater via the recharge structure, this effectively increases the storage capacity of the downstream detention basin by the same amount.

The basin is also designed to compensate for increased discharge in other areas of the site. The overall storm water system design relies on this basin to reduce peak flows to compensate for increases in peak flow in other portions of the site.

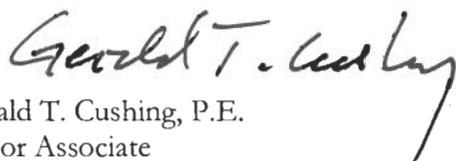
The attached information supports the conclusion that the proposed detention pond has been adequately sized to handle storm water run-off from the site, including the proposed paved area of the landfill to be used for empty container storage.

We will notify your office in advance of commencing any construction activities associated with the post closure use. If you have any questions regarding this information, please do not hesitate to call this office.

In accordance with 310 CMR 19.011, I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate and complete. I am aware that there are significant penalties both civil and criminal for submitting false information including possible fines and imprisonment.

Very truly yours,

Brown and Caldwell



Gerald T. Cushing, P.E.
Senior Associate



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Figures

- Figure 1 Pre-Development Conditions
- Figure 2 Post-Development Conditions

Appendices

- Appendix A HydroCad Output

Tables

- Table 1 Pre-Development and Post-Development Flows (cfs)

Copy to: Jim Harvey, E.L. Harvey & Sons, Inc.
Steve Richmond, Bowditch & Dewey
Hopkinton Board of Health
Hopkinton Conservation Commission
Hopkinton Board of Appeals (w/o attachments)