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Haverhill

Economic Development and Planning
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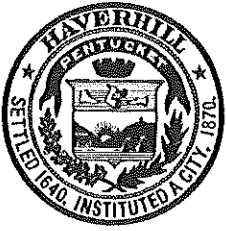
October 14, 2011

TO: City Council President Michael J. Hart and members of the Haverhill City Council

FROM: William Pillsbury, Jr. Economic Development and Planning Director

SUBJECT: Final report on Brandy Brow Watershed Investigation of illegal dumping

I respectfully request the opportunity to brief the city council on the final results of the investigation performed by the City relative to allegations of illegal dumping on Brandy Brow Road.



Haverhill

Board of Health
Inspection Services
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Community Health Coordinator
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August 22, 2011

MEMO

1 of 2

To: William Pillsbury – Planning Director
From: Les Godin – Health Department

Re: Soil Investigation for Brandy Brow Road (462-8 Lots 1-5) D&D Realty Trust

In response to complaints received by this department regarding the possible existence of unsuitable fill material deposited on the subject site, this department has witnessed extensive exploratory excavations and soil testing on the subject property.

In conjunction with soil evaluations and percolation testing conducted for the construction of subsurface sewage disposal systems proposed on the site, 24 deep test holes across the front of the site along Brandy Brow Road were witnessed by this department on April 20th and 21st 2011. The tests were conducted by MHF Design Consultants, working in behalf of D&D Realty Trust and witnessed by Les Godin of the City of Haverhill Health Department. A conventional rubber tire backhoe capable of digging to a depth of 12 feet was provided by the owner of the property. In no case was any evidence of unsuitable fill material observed in these test areas. Results and locations of the test holes are attached.

In addition to the testing conducted on April 20th, 4 test holes were excavated toward the northerly corner of the property in an area identified by several complainants as being the approximate location of possibly unsuitable fill material. In all four cases, a non indigenous fill material was encountered to a depth exceeding the depth capability of the excavation equipment. The tests were also witnessed by Richard Osborne Building Inspector, Robert Moore Conservation Agent and John Daoust Water Department Plant Manager. Results and locations of the test holes are attached.

A written order requesting further exploration and testing was issued by this department to D&D Realty Trust on May 16, 2011.



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2 of 2

An additional 11 test holes were conducted on May 24, 2011. The tests were conducted by Millennium Environmental working in behalf of D&D Realty Trust and witnessed by Richard Osborne, Robert Moore, John Daoust and Les Godin. An excavator capable of digging to depths in excess of 19' was provided by the owner of the site. The vertical extent of the fill material encountered on April 20, 2011 was verified. 5 samples of the fill material were taken by the site consultant, analyzed by Geolabs Inc a Mass DEP certified laboratory, and the results interpreted by Millennium Environmental. 3 samples were taken by the City of Haverhill, analyzed by Geolabs Inc and the results interpreted by Camp Dresser & McKee Inc, working in behalf of the City of Haverhill. Laboratory test results are attached. Millennium Environmental has prepared a separate Sampling and Analysis Report in behalf of D&D Realty Trust.

Conclusions:

1. Laboratory analysis of the fill material obtained from test holes #101, 102, 103 and 104 were reviewed and summarized by Millennium Environmental as well as by Camp Dresser & McKee. Neither identified unacceptable levels of contaminants for fill material.
2. In response to complaints received by this department, no asphalt, bricks or concrete was observed in any of the test holes. See #3 below for wood waste.
3. Fill material was accompanied by organic material (loam and roots) in several test holes. Test hole #3 had the highest concentration of wood waste of approximately 20%. Several tree logs to 12" diameter and one stump were observed. This department does not believe that this constitutes a "stump dump". All wood debris was observed as being above the water table.
4. No objections to the materials observed have been indicated by the departmental witnesses present during the soil explorations.

This department is satisfied with the results obtained and requires no further soil exploration at this time.

Les Godin

From: "John D'Aoust" <jdaoust@haverhillwater.com>
To: <lgodin@cityofhaverhill.com>; <rmoore@cityofhaverhill.com>
Sent: Thursday, August 11, 2011 7:35 AM
Subject: FW: Brandy Brow road - soil samples

See below for CDM's comments on the soil samples that were taken from the Brandy Brow lots.

From: Miller, Andrew [mailto:MillerA@cdm.com]
Sent: Wednesday, August 10, 2011 6:31 PM
To: Robert Ward; John D'Aoust
Cc: Swanson, William; Haskell, Bruce
Subject: Brandy Brow road - soil samples

John –

At Bob Ward's request, CDM has taken a quick review of the Brandy Brow Road soil sample data provided in the attached emails. Bill Swanson, LSP with CDM performed this review. Please find below his responses to your questions.

1. Would any of the compounds found in the analysis occur naturally? The metals results are consistent with natural soil or mildly impacted urban fill soil and are acceptable for residential use.
2. Would soils containing these compounds be allowed to be disposed in places other than a registered landfill? Disposal of mildly impacted urban fill, which is how this material would be categorized, is to be in accordance with the "anti-degradation provisions" of the MCP. This means that the site should have been sampled prior to importing of the fill soil to determine if the soil at the property was similarly impacted. However, that being said, there's nothing that would prompt regulatory reporting or oversight as all sample results are relatively low.
3. Do any of the compounds found provide a potential source of contamination to the city's water supply by migrating to the East Meadow River through the groundwater? The semi-volatile organics consistently found in the soil tend to be stable and are not likely to migrate. The same may be said for the metals at the concentrations detected.
4. Do these compounds provide a source for contamination to private drinking water wells that are proposed for these house lots? Stable, not likely to migrate.

We hope this information is helpful. Please let us know of any additional questions or if you need further assistance.

Thank you,
Andy

Mr. Richard P. Early, St.
Trustee
D&D Realty Trust
77 Route 125
Kingston, NH 03848

June 3, 2011

R E C E I V E D
JUN 06 2011

Econ Devlp & Planning
& B.O.A.

RE: Brandy Brow Road 462-8, Lots 1-5
Sampling and Analysis Report

Dear Mr. Early,

Attached hereto is the analytical data for the sampling program undertaken at the above referenced site by Millennium Equities Group Inc. d/b/a Millennium Environmental. Also, included with this package are pictures taken during the test pit excavations.

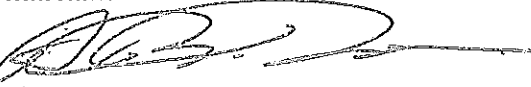
As directed, a total of five (5) composite samples were collected from four (4) test pits at various locations provided by the Haverhill Board of Health. Two (2) samples were collected from Test Pit 101. One (1) sample collected from the Clean Fill (TP-101-CF) that was brought in from East Boston, Massachusetts and one (1) sample collected from the Naturally Occurring Soil (TP-101-NOS). Three (3) samples were collected, one (1) each from Test Pits 102, 103 & 104. All three (3) were collected from the Clean Fill (TP-102-CF, TP-103-CF & TP-104-CF).

The five (5) samples were analyzed for total Arsenic, total Cadmium, total Chromium, total Lead, total Mercury, Volatile Organic Compounds (VOCs), Semivolatile Organic Compounds (SVOCs), Polychlorinated Biphenyls (PCBs), Total Petroleum Hydrocarbons (TPH) and Specific Conductance. The results were then compared to the Reportable Concentration in Soil - 1 (RCS-1) listed in the Massachusetts Contingency Plan (MCP) at 310 CMR 40.1600. The data for the site revealed the following:

1. No TPH, PCBs, SVOCs or VOCs were detected above the Laboratory Detection Limits.
2. Conductivity, Cadmium, Chromium and Lead are present at concentrations typically found at similar areas and/or background levels but are below the RCS-1 standard.

Please do not hesitate to contact us should you have any questions or comments regarding this information.

Sincerely,
Millennium Environmental

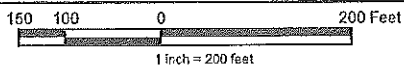


Alan B. Duncan, P.E.
President



City of Haverhill, MA

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DEEP TEST HOLE LOCATIONS

4-20-11, 4-21-11, 5-24-11

BY: L.G. 8-23-11