SCAN



ENVIRONMENT & HEALTH

Mayor City of Haverhill 4 Summer Street, Room 100 Haverhill, MA 01830

Release Notification under the MCP Haffner Realty Trust; 284 Winter Street, Haverhill, MA MassDEP Release Tracking Number (RTN) 3-32792

Dear Mayor Jim Fiorentini:

In accordance with 310 CMR 40.1403(3)(h), this letter is intended to notify you of a release of oil or hazardous material at 284 Winter Street in Haverhill, MA. This notification is provided due to a release of oil or hazardous material as defined at 310 CMR 40.0315 (2) and (3). On behalf of Haffner Realty Trust, and in accordance with 310 CMR 40.0371, Ramboll Environ submitted a Release Notification Form to the Massachusetts Department of Environmental Protection (MassDEP) on March 30, 2015. A copy of the Release Notification Form is included in this letter can be obtained on the MassDEP searchable sites website (http://public.dep.state.ma.us/SearchableSites2/Search.aspx) or by contacting MassDEP, Northeast Region Service Center, 205B Lowell Street, Wilmington, MA or by telephone: 978.694.3200.

You have the right to request additional Public Involvement Activities under 310 CMR 40.1403(9).

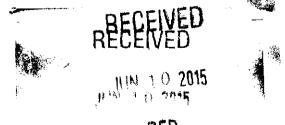
If you have any questions regarding this notification, please contact me directly at 978.449.0343.

Yours sincerely,

Dook

Eric S. Wood, PHg, PG, LSP Principal Operations Director - New England Environment & Health

D 978.449.0343 M 603.770.5656 eswood@environcorp.com



DEP NORTHEADEREGIONAL OFFICE NORTHEAST REGIONAL OFFICE

Copy to MassDEP: Northeast Region Service Center Attachment: BWSC 103 ~ 120 Day Release Notification Form Date June 8, 2015

Ramboll Environ 3 Carlisle Road Suite 210 Westford, MA 01886 USA

T +1 978 449 0300 F +1 978 449 0301 www.ramboll-environ.com



Attachment: BWSC 103 – 120 Day Release Notification Form



Release Tracking Number assigned upon receipt and review by the Department

| A. RELEASE OR THREAT OF RELEASE LOCATION: |                |           |                 |           |  |  |  |
|---|----------------|-----------|-----------------|-----------|--|--|--|
| 1. Release Name/Locat                     | ion Aid:       | HAFFNER'S |                 |           |  |  |  |
| 2. Street Address:                        | 284 WINTER S   |           |                 |           |  |  |  |
| 3. City/Town:                             | HAVERHILL      |           | 4. ZIP Code:    | 018300000 |  |  |  |
| 5. Coordinates:                           | a. Latitude: N | 42.77723  | b. Longitude: W | 71.08760  |  |  |  |

## **B. THIS FORM IS BEING USED TO:**

▼ 1. Submit a **Release Notification** for a 120 day reporting requirement

(All sections of this transmittal form must be filled out )

#### C. INFORMATION DESCRIBING THE RELEASE:

| 1. Date and time you obtained knowledge of the Release: | 12/5/2014  | Time: |       | Гам | Грм |
|---|------------|-------|-------|-----|-----|
|   | mm/dd/yyyy |       | hh:mm |     |     |
| 2. Date and time release occurred, if known:            |            | Time: |       | Гам | Грм |
|   | mm/dd/yyyy |       | hh:mm |     |     |

#### 3. 120 DAY REPORTING CONDITIONS

Check all Notification Thresholds that apply to the Release: (for more information see 310 CMR 40.0315)

a. Release of Hazardous Material(s) to Soil or Groundwater Exceeding Reportable Concentration(s)

Jo b. Release of Oil to Soil Exceeding Reportable Concentration(s) and Affecting More than 2 Cubic Yards

c. Release of Oil to Groundwater Exceeding Reportable Concentration(s)

广 d. Subsurface Non-Aqueous Phase Liquid (NAPL) Equal to or Greater than 1/8 Inch (.01 feet) and Less than 1/2 Inch (.04 feet)



Massachusetts Department of Environmental Protection Bureau of Waste Site Cleanup

# **RELEASE NOTIFICATION FORM**

Pursuant to 310 CMR 40.0371 (Subpart C)

Release Tracking Number assigned upon receipt and review by the Department

# C. INFORMATION DESCRIBING THE RELEASE (cont.)

4. List below the Oils (O) or Hazardous Materials (HM) that exceed their Reportable Concentration (RC) or Reportable Quantity (RQ) by the greatest amount.

 $\Box$  Check here if an amount or concentration is unknown or less than detectable.

| O or HM Released    | CAS Number,<br>if known | O or HM | Amount or<br>Concentration | Units | RCs Exceeded, if Applicable<br>(RCS-1, RCS-2, RCGW-1,<br>RCGW-2) |
|---------------------|-------------------------|---------|----------------------------|-------|--|
| PHENANTHRENE        |                         | 0       | 550                        | MG/KG | RCS-1  |
| BENZENE             |                         | 0       | 190                        | MG/KG | RCS-1  |
| 2-METHYLNAPHTHALENE |                         | o       | 570                        | MG/KG | RCS-1  |
| NAPHTHALENE         |                         | 0       | 2900                       | MG/KG | RCS-1  |

Check here if a list of additional Oil and Hazardous Materials subject to reporting, or any other documentation relating to this notification is attached.

### **D. PERSON REQUIRED TO NOTIFY:**

| 1. Name of Orga        | nization: | HAFFI      | NER REALTY TRUST |               |            |                |           |
|------------------------|-----------|------------|------------------|---------------|------------|----------------|-----------|
| 2. Contact First Name: |           | JOANNE     |                  | 3. Last Name: | FOURNIER   |                |           |
| 4. Street:             |           | TWO INTERN | ATIONAL WAY      |               | 5. Title:  | PRESIDENT      | <u></u>   |
| 6. City/Town:          |           | CE         | 7. State:        | MA            |            | 8. ZIP Code:   | 018430000 |
| 9. Telephone:          | 978-494-  | 2607       | 10. Ext.:        |               | 11. Email: | jcannehalo@aol | .com      |

12. Check here if attaching names and addresses of owners of properties affected by the Release, other than an owner who is submitting this Release Notification (required).

| E. RELATIONSHIP OF PERSON TO RELEASE:  |   |               |                                  |  |  |  |  |  |
|--|---|---------------|----------------------------------|--|--|--|--|--|
| ✓ 1. RP or PRP   | □ a. Owner  | □ b. Operator | C. Generator C. d. Transporter   |  |  |  |  |  |
|  | e. Other RP or PRP  | Specify:      | ELIGIBLE PERSON UNDER MGL CH 21E |  |  |  |  |  |
| C 2. Fiduciary,  | 2. Fiduciary, Secured Lender or Municipality with Exempt Status (as defined by M.G.L. c. 21E, s. 2) |               |                                  |  |  |  |  |  |
| ☐ 3. Agency or Public Utility on a Right of Way (as defined by M.G.L. c. 21E, s. 5(j)) |   |               |                                  |  |  |  |  |  |
| 4. Any Other Person Otherwise Required to Notify Specify Relationship:                 |   |               |                                  |  |  |  |  |  |



7 Street

11. Telephone:

Massachusetts Department of Environmental Protection Bureau of Waste Site Cleanup

**RELEASE NOTIFICATION FORM** 

Pursuant to 310 CMR 40.0371 (Subpart C)

Release Tracking Number assigned upon receipt and review by the Department

## F. CERTIFICATION OF PERSON REQUIRED TO NOTIFY:

1. I, JOANNE FOURNIER , attest under the pains and penalties of perjury (i) that I have personally examined and am familiar with the information contained in this submittal, including any and all documents accompanying this transmittal form, (ii) that, based on my inquiry of those individuals immediately responsible for obtaining the information, the material information contained in this submittal is, to the best of my knowledge and belief, true, accurate and complete, and (iii) that I am fully authorized to make this attestation on behalf of the entity legally responsible for this submittal. I/the person or entity on whose behalf this submittal is made am/is aware that there are significant penalties, including, but not limited to, possible fines and imprisonment, for willfully submitting false, inaccurate, or incomplete information.

| 2. By : | JOANNE FOURNIER                                  | 3. Title: | PRESIDENT  |   |
|---------|--|-----------|------------|---|
| 4. For: | Signature<br>HAFFNER REALTY TRUST                | 5. Date : | 3/30/2015  |   |
|         | (Name of person or entity recorded in Section D) | _         | mm/dd/yyyy | _ |

**6**. Check here if the address of the person providing certification is different from address recorded in Section D.

12. Ext.:

| 8. City/Town: | 9. State: | 10. ZIP Code: |  |
|---------------|-----------|---------------|--|

13. Email:

| YOU ARE SUBJECT TO ANNUAL COMPLIANCE ASSURANCE FEES FOR EACH BILLABLE YEAR FOR TIER  | 1 |
|--|---|
| CLASSIFIED DISPOSAL SITES. YOU MUST LEGIBLY COMPLETE ALL RELEVANT SECTIONS OF THIS   |   |
| FORM OR DEP MAY RETURN THE DOCUMENT AS INCOMPLETE. IF YOU SUBMIT AN INCOMPLETE FORM. |   |

YOU MAY BE PENALIZED FOR MISSING A REQUIRED DEADLINE.

Date Stamp (DEP USE ONLY:)

| Received by DEP on 3/30/2015 2:25:49 |   |
|--------------------------------------|---|
| PM                                   |   |
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|                                      | I |
|                                      |   |

|   | Novembe    | r 24, 2014 |       |       |
|---|------------|------------|-------|-------|
| Sample ID                                   | <b>B-1</b> | B-3        | RCS 1 | RCS 2 |
| Depth (feet)                                | 10-12'     | 15-17'     |       |       |
| VPH   |            |            |       |       |
| C5-C8 Aliphatics                            | < 1,000    | < 20       | 100   | 500   |
| C <sub>9</sub> -C <sub>12</sub> Aliphatics  | 2 000      | 150        | 1 000 | 3 000 |
| C <sub>9</sub> -C <sub>10</sub> Aromatics   | <1,000     | 150        | 100   | 500   |
| Methyl tert-butyl ether                     | < 20       | < 0.5      | 0.1   | 100   |
| Benzene                                     | 190        | < 0.2      | 2     | 200   |
| Toluene                                     | 230        | < 0.2      | 30    | 1 000 |
| Ethylbenzene                                | 23         | < 0.2      | 40    | 1 000 |
| Total Xylenes                               | 320        | < 0.4      | 100   | 100   |
| Naphthalene                                 | 2 900      | 2.8        | 4     | 40    |
| EPH   | 1          |            |       |       |
| C <sub>9</sub> -C <sub>18</sub> Aliphatics  | < 200      | NA         | 1 000 | 3 000 |
| C <sub>19</sub> -C <sub>36</sub> Aliphatics | 250        | NA         | 3 000 | 5 000 |
| C <sub>11</sub> -C <sub>22</sub> Aromatics  | 4 000      | NA         | 1 000 | 3 000 |
| Naphthalene                                 | 1 200      | NA         | 4     | 20    |
| 2-Methynaphthalene                          | 570        | NA         | 0.7   | 80    |
| Acenaphthylene                              | 310        | NA         | 1     | 10    |
| Acenaphthene                                | 34         | NA         | 4     | 3 000 |
| Fluorene                                    | 180        | NA         | 1 000 | 3 000 |
| Phenanthrene                                | 550        | NA         | 10    | 1 000 |
| Anthracene                                  | 150        | NA         | 1 000 | 3 000 |
| Fluoranthene                                | 180        | NA         | 1 000 | 3 000 |
| Pyrene                                      | 320        | NA         | 1 000 | 3 000 |
| Benzo(a)anthracene                          | 87         | NA         | 7     | 40    |
| Chrysene                                    | 73         | NA         | 70    | 400   |
| Benzo[b]fluoranthene                        | 80         | NA         | 7     | 40    |
| Benzo[k]fluoranthene                        | 26         | NA         | 70    | 400   |
| Benzo[a]pyrene                              | 110        | NA         | 2     | 7     |
| Indeno[1,2,3-cd]pyrene                      | 38         | NA         | 7     | 40    |
| Dibenz[a,h]anthracene                       | 11         | NA         | 0.7   | 4     |
| Benzo[g,h,i]perylene                        | 50         | NA         | 1 000 | 3 000 |

# Table 8 - Soil Analytical Results November 24, 2014

Results presented in milligrams per kilogram (mg/kg) or parts per million (ppm). NA is not analyzed.

Compounds detected above Reportable Concentrations (RCS-1) are in bold.

| Sample ID                                  | MW-1    | MW-2    | MW-3    | RCGW 1 | RCGW 2              |
|--|---------|---------|---------|--------|---------------------|
| Date Sampled                               | 12/1/14 | 12/1/14 | 12/1/14 |        |                     |
| VPH  |         |         |         |        | 0.000 <b>-</b> 0.00 |
| C <sub>5</sub> -C <sub>8</sub> Aliphatics  | <10,000 | <10,000 | 910     | 300    | 3 000               |
| C <sub>9</sub> -C <sub>12</sub> Aliphatics | <10,000 | 20 000  | 710     | 700    | 5 000               |
| C <sub>9</sub> -C <sub>10</sub> Aromatics  | <10,000 | 11 000  | 1,000   | 200    | 4 000               |
| MTBE                                       | <500    | <500    | <5      | 70     | 5 000               |
| Benzene                                    | 16 000  | 400     | 15      | 5      | 1 000               |
| Toluene                                    | 2,500   | 430     | 2.1     | 1 000  | 40 000              |
| Ethylbenzene                               | 510     | 7 000   | 2.8     | 700    | 5 000               |
| Xylenes                                    | 1,150   | 6 300   | 15      | 3 000  | 3 000               |
| Naphthalene                                | 8 200   | 11 000  | 350     | 140    | 700                 |
| EPH  |         |         |         |        |                     |
| C9-C18 Aliphatics                          | 610     | NA      | NA      | 700    | 5 000               |
| C19-C36 Aliphatics                         | 1,500   | NA      | NA      | 14 000 | 50 000              |
| C <sub>11</sub> -C <sub>22</sub> Aromatics | 2,900   | NA      | NA      | 200    | 5 000               |
| Naphthalene                                | 3 100   | NA      | NA      | 140    | 700                 |
| 2-Methynaphthalene                         | 590     | NA      | NA      | 10     | 2 000               |
| Acenaphthylene                             | 130     | NA      | NA      | 30     | 40                  |
| Acenaphthene                               | 35      | NA      | NA      | 20     | 6 000               |
| Fluorene                                   | 91      | NA      | NA      | 30     | 40                  |
| Phenanthrene                               | 230     | NA      | NA      | 40     | 10 000              |
| Anthracene                                 | 59      | NA      | NA      | 30     | 30                  |
| Fluoranthene                               | 79      | NA      | NA      | 90     | 200                 |
| Pyrene                                     | 110     | NA      | NA      | 20     | 20                  |
| Benzo(a)anthracene                         | 35      | NA      | NA      | 1      | 1 000               |
| Chrysene                                   | 38      | NA      | NA      | 2      | 70                  |
| Benzo[b]fluoranthene                       | 24      | NA      | NA      | 1      | 400                 |
| Benzo[k]fluoranthene                       | <10     | NA      | NA      | 1      | 100                 |
| Benzo[a]pyrene                             | 27      | NA      | NA      | 0.2    | 500                 |
| Indeno[1,2,3-cd]pyrene                     | 13      | NA      | NA      | 0.5    | 100                 |
| Dibenz[a,h]anthracene                      | <10     | NA      | NA      | 0.5    | 40                  |
| Benzo[g,h,i]pervlene                       | 17      | NA      | NA      | 20     | 20                  |

**Table 10 - Groundwater Analytical Data** 

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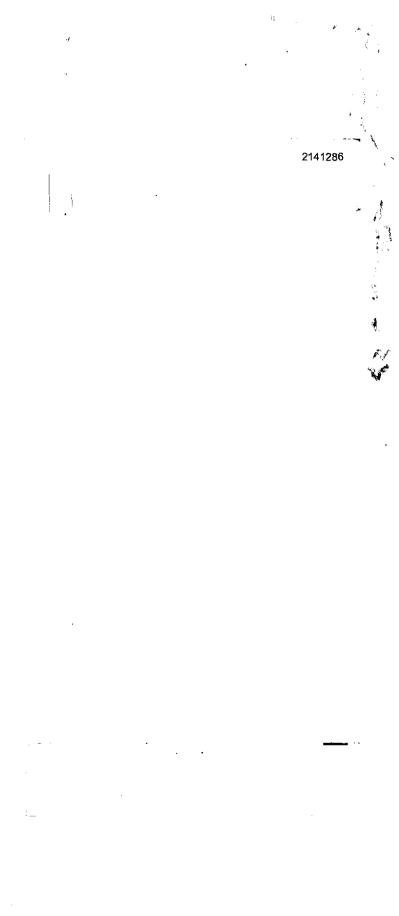
Results presented in microgram per liter (ugL) or parts per billion (ppb) NA is not analyzed.

Compounds detected above RCGW-2 are in bold.

### Taken from:

Draft Phase I/II Environmental Site Assessment, 284 Winter Street, Haverhill, MA, prepared by Lessard Environmental, Inc., dated December 2014.





SCANNED



Board of Health (Health and Inspection Services) City of Haverhill 4 Summer Street, Room 210 Haverhill, MA 01830 ENVIRONMENT & HEALTH

RECEIVED

JUN 10 2015

DEP NORTHEAST REGIONAL OFFICE

Release Notification under the MCP Haffner Realty Trust; 284 Winter Street, Haverhill, MA MassDEP Release Tracking Number (RTN) 3-32792

Dear Dr. Carl Rosenbloom:

In accordance with 310 CMR 40.1403(3)(h), this letter is intended to notify you of a release of oil or hazardous material at 284 Winter Street in Haverhill, MA. This notification is provided due to a release of oil or hazardous material as defined at 310 CMR 40.0315 (2) and (3). On behalf of Haffner Realty Trust, and in accordance with 310 CMR 40.0371, Ramboll Environ submitted a Release Notification Form to the Massachusetts Department of Environmental Protection (MassDEP) on March 30, 2015. A copy of the Release Notification Form is included in this letter can be obtained on the MassDEP searchable sites website (http://public.dep.state.ma.us/SearchableSites2/Search.aspx) or by contacting MassDEP, Northeast Region Service Center, 2058 Lowell Street, Wilmington, MA or by telephone: 978.694.3200.

You have the right to request additional Public Involvement Activities under 310 CMR 40.1403(9).

If you have any questions regarding this notification, please contact me directly at 978.449.0343.

Yours sincerely,

Dure

Eric S. Wood, PHg, PG, LSP Principal Operations Director - New England Environment & Health

D 978.449.0343 M 603.770.5656 eswood@environcorp.com

Copy to MassDEP: Northeast Region Service Center Attachment: BWSC 103 – 120 Day Release Notification Form Date June 8, 2015

Ramboll Environ 3 Carlisle Road Suite 210 Westford, MA 01886 USA

T +1 978 449 0300 F +1 978 449 0301 www.ramboll-environ.com



Attachment: BWSC 103 – 120 Day Release Notification Form



# **RELEASE NOTIFICATION FORM**

Pursuant to 310 CMR 40.0371 (Subpart C)

Release Tracking Number assigned upon receipt and review by the Department

| A. RELEASE OR THREAT OF RELEASE LOCATION: |                  |          |                 |           |  |  |  |  |
|---|------------------|----------|-----------------|-----------|--|--|--|--|
| 1. Release Name/Location Aid: HAFFNER'S   |                  |          |                 |           |  |  |  |  |
| 2. Street Address:                        | 284 WINTER STREE | ET       |                 |           |  |  |  |  |
| 3. City/Town:                             | HAVERHILL        |          | 4. ZIP Code:    | 018300000 |  |  |  |  |
| 5. Coordinates:                           | a. Latitude: N   | 42.77723 | b. Longitude: W | 71.08760  |  |  |  |  |

# **B. THIS FORM IS BEING USED TO:**

**☞** 1. Submit a **Release Notification** for a 120 day reporting requirement

(All sections of this transmittal form must be filled out )

#### C. INFORMATION DESCRIBING THE RELEASE:

| 1. Date and time you obtained knowledge of the Release: | 12/5/2014  | Time: |          | ГАМ | Г РМ |
|---|------------|-------|----------|-----|------|
|   | mm/dd/yyyy |       | hh:mm    |     |      |
| 2. Date and time release occurred, if known:            |            | Time: | <u> </u> | Гам | Грм  |
|   | mm/dd/yyyy |       | hh:mm    |     |      |

#### 3. 120 DAY REPORTING CONDITIONS

Check all Notification Thresholds that apply to the Release: (for more information see 310 CMR 40.0315)

a. Release of Hazardous Material(s) to Soil or Groundwater Exceeding Reportable Concentration(s)

Jor b. Release of Oil to Soil Exceeding Reportable Concentration(s) and Affecting More than 2 Cubic Yards

C. Release of Oil to Groundwater Exceeding Reportable Concentration(s)

d. Subsurface Non-Aqueous Phase Liquid (NAPL) Equal to or Greater than 1/8 Inch (.01 feet) and Less than 1/2 Inch (.04 feet)



Massachusetts Department of Environmental Protection Bureau of Waste Site Cleanup

**RELEASE NOTIFICATION FORM** 

Pursuant to 310 CMR 40.0371 (Subpart C)

Release Tracking Number assigned upon receipt and review by the Department

# C. INFORMATION DESCRIBING THE RELEASE (cont.)

4. List below the Oils (O) or Hazardous Materials (HM) that exceed their Reportable Concentration (RC) or Reportable Quantity (RQ) by the greatest amount.

Check here if an amount or concentration is unknown or less than detectable.

| O or HM Released    | CAS Number,<br>if known | O or HM | Amount or<br>Concentration | Units | RCs Exceeded, if Applicable<br>(RCS-1, RCS-2, RCGW-1,<br>RCGW-2) |
|---------------------|-------------------------|---------|----------------------------|-------|--|
| PHENANTHRENE        |                         | 0       | 550                        | MG/KG | RCS-1  |
| BENZENE             |                         | 0       | 190                        | MG/KG | RCS-1  |
| 2-METHYLNAPHTHALENE |                         | 0       | 570                        | MG/KG | RCS-1  |
| NAPHTHALENE         |                         | 0       | 2900                       | мджд  | RCS-1  |

Check here if a list of additional Oil and Hazardous Materials subject to reporting, or any other documentation relating to this notification is attached.

### **D. PERSON REQUIRED TO NOTIFY:**

| 1. Name of Organ   | nization: | HAFFI      | NER REALTY TRUST |    |               |               |           |
|--------------------|-----------|------------|------------------|----|---------------|---------------|-----------|
| 2. Contact First N | lame:     | JOANNE     |                  |    | 3. Last Name: | FOURNIER      |           |
| 4. Street:         |           | TWO INTERN | ATTONAL WAY      |    | 5. Title:     | PRESIDENT     |           |
| 6. City/Town:      | LAWREN    | CE         | 7. State:        | MA |               | 8. ZIP Code:  | 018430000 |
| 9. Telephone:      | 978-494-  | 2607       | 10. Ext.;        |    | 11. Email:    | joannehalo@ao | l.com     |

12. Check here if attaching names and addresses of owners of properties affected by the Release, other than an owner who is submitting this Release Notification (required).

| E. | E. RELATIONSHIP OF PERSON TO RELEASE:   |                        |                |                                 |  |  |  |  |
|----|---|------------------------|----------------|---------------------------------|--|--|--|--|
|    |   | □ a. Owner             | □ b. Operator  | C. Generator C. Transporter     |  |  |  |  |
|    |   | 🔽 e. Other RP or PRP   | Specify:       | EUGIBLE PERSON UNDER MGL CH 21E |  |  |  |  |
|    | 2. Fiduciary, Secured Lender or Municipality with Exempt Status (as defined by M.G.L. c. 21E, s. 2) |                        |                |                                 |  |  |  |  |
|    | ☐ 3. Agency or Public Utility on a Right of Way (as defined by M.G.L. c. 21E, s. 5(j))              |                        |                |                                 |  |  |  |  |
|    | T 4. Any Other  | Person Otherwise Requi | ired to Notify | Specify Relationship:           |  |  |  |  |
|    |   |                        |                |                                 |  |  |  |  |



Massachusetts Department of Environmental Protection Bureau of Waste Site Cleanup

**RELEASE NOTIFICATION FORM** 

Pursuant to 310 CMR 40.0371 (Subpart C)

Release Tracking Number assigned upon receipt and review by the Department

# F. CERTIFICATION OF PERSON REQUIRED TO NOTIFY:

1. I, JOANNE FOURNER \_\_\_\_\_\_\_, attest under the pains and penalties of perjury (i) that I have personally examined and am familiar with the information contained in this submittal, including any and all documents accompanying this transmittal form, (ii) that, based on my inquiry of those individuals immediately responsible for obtaining the information, the material information contained in this submittal is, to the best of my knowledge and belief, true, accurate and complete, and (iii) that I am fully authorized to make this attestation on behalf of the entity legally responsible for this submittal. Uthe person or entity on whose behalf this submittal is made am/is aware that there are significant penalties, including, but not limited to, possible fines and imprisonment, for willfully submitting false, inaccurate, or incomplete information.

| 2. By : | JOANNE FOURNIER                                  | 3. Title: | PRESIDENT  |   |
|---------|--|-----------|------------|---|
| 4. For: | Signature<br>HAFFNER REALTY TRUST                |           | 3/30/2015  | - |
|         | (Name of person or entity recorded in Section D) |           | mm/dd/yyyy |   |

**f** 6. Check here if the address of the person providing certification is different from address recorded in Section D.

| 7. Street:    |   |          |               |
|---------------|---|----------|---------------|
| 8. City/Town: | 9 | . State: | 10. ZIP Code; |

| 11. Telephone: | <br>12. Ext.: | <u></u> | 13. Email: |  |
|----------------|---------------|---------|------------|--|
|                |               |         |            |  |

| YOU ARE SUBJECT TO ANNUAL COMPLIANCE ASSURANCE FEES FOR EACH BILLABLE YEAR FOR TIER  |
|--|
| CLASSIFIED DISPOSAL SITES. YOU MUST LEGIBLY COMPLETE ALL RELEVANT SECTIONS OF THIS   |
| FORM OR DEP MAY RETURN THE DOCUMENT AS INCOMPLETE. IF YOU SUBMIT AN INCOMPLETE FORM, |
| YOU MAY BE PENALIZED FOR MISSING A REQUIRED DEADLINE.                                |

Date Stamp (DEP USE ONLY:)

| Received by DI | P on 3/30/2<br>PM | 2015 2:25:49 |
|----------------|-------------------|--------------|
| i              |                   |              |
|                |                   |              |
|                |                   |              |

|   | Novembe | 1 24, 2014 |       |       |
|---|---------|------------|-------|-------|
| Sample ID                                   | B-1     | B-3        | RCS 1 | RCS 2 |
| Depth (feet)                                | 10-12'  | 15-17'     |       |       |
| VPH   | ]       |            |       |       |
| C <sub>5</sub> -C <sub>8</sub> Aliphatics   | < 1,000 | < 20       | 100   | 500   |
| C <sub>9</sub> -C <sub>12</sub> Aliphatics  | 2 000   | 150        | 1 000 | 3 000 |
| C <sub>9</sub> -C <sub>10</sub> Aromatics   | <1,000  | 150        | 100   | 500   |
| Methyl tert-butyl ether                     | < 20    | < 0.5      | 0.1   | 100   |
| Benzene                                     | 190     | < 0.2      | 2     | 200   |
| Toluene                                     | 230     | < 0.2      | 30    | 1 000 |
| Ethylbenzene                                | 23      | < 0.2      | 40    | 1 000 |
| Total Xylenes                               | 320     | < 0.4      | 100   | 100   |
| Naphthalene                                 | 2 900   | 2.8        | 4     | 40    |
| EPH   |         |            | · ·   |       |
| C <sub>9</sub> -C <sub>18</sub> Aliphatics  | < 200   | NA         | 1 000 | 3 000 |
| C <sub>19</sub> -C <sub>36</sub> Aliphatics | 250     | NA         | 3 000 | 5 000 |
| C <sub>11</sub> -C <sub>22</sub> Aromatics  | 4 000   | NA         | 1 000 | 3 000 |
| Naphthalene                                 | 1 200   | NA         | 4     | 20    |
| 2-Methynaphthalene                          | 570     | NA         | 0.7   | 80    |
| Acenaphthylene                              | 310     | NA         | 1     | 10    |
| Acenaphthene                                | 34      | NA         | 4     | 3 000 |
| Fluorene                                    | 180     | NA         | 1 000 | 3 000 |
| Phenanthrene                                | 550     | NA         | 10    | 1 000 |
| Anthracene                                  | 150     | NA         | 1 000 | 3 000 |
| Fluoranthene                                | 180     | NA         | 1 000 | 3 000 |
| Pyrene                                      | 320     | NA         | 1 000 | 3 000 |
| Benzo(a)anthracene                          | 87      | NA         | 7     | 40    |
| Chrysene                                    | 73      | NA         | 70    | 400   |
| Benzo[b]fluoranthene                        | 80      | NA         | 7     | 40    |
| Benzo[k]fluoranthene                        | 26      | NA         | 70    | 400   |
| Benzo[a]pyrene                              | 110     | NA         | 2     | 7     |
| Indeno[1,2,3-cd]pyrene                      | 38      | NA         | 7     | 40    |
| Dibenz[a,h]anthracene                       | 11      | NA         | 0.7   | 4     |
| Benzo[g,h,i]pervlene                        | 50      | NA         | 1 000 | 3 000 |

## Table 8 - Soil Analytical Results November 24, 2014

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Results presented in milligrams per kilogram (mg/kg) or parts per million (ppm). NA is not analyzed.

Compounds detected above Reportable Concentrations (RCS-1) are in bold.

| Sample ID                                  | MW-1    | MW-2    | MW-3    | RCGW 1 | RCGW 2   |
|--|---------|---------|---------|--------|----------|
| Date Sampled                               | 12/1/14 | 12/1/14 | 12/1/14 | · · ·  | <i>u</i> |
| VPH  |         |         |         |        |          |
| C <sub>5</sub> -C <sub>8</sub> Aliphatics  | <10,000 | <10,000 | 910     | 300    | 3 000    |
| C9-C12 Aliphatics                          | <10,000 | 20 000  | 710     | 700    | 5 000    |
| C <sub>9</sub> -C <sub>10</sub> Aromatics  | <10,000 | 11 000  | 1,000   | 200    | 4 000    |
| MTBE                                       | <500    | <500    | <5      | 70     | 5 000    |
| Benzene                                    | 16 000  | 400     | 15      | 5      | 1 000    |
| Toluene                                    | 2,500   | 430     | 2.1     | 1 000  | 40 000   |
| Ethylbenzene                               | 510     | 7 000   | 2.8     | 700    | 5 000    |
| Xylenes                                    | 1,150   | 6 300   | 15      | 3 000  | 3 000    |
| Naphthalene                                | 8 200   | 11 000  | 350     | 140    | 700      |
| EPH  |         |         |         |        |          |
| C <sub>9</sub> -C <sub>18</sub> Aliphatics | 610     | NA      | NA      | 700    | 5 000    |
| C19-C36 Aliphatics                         | 1,500   | NA      | NA      | 14 000 | 50 000   |
| C <sub>11</sub> -C <sub>22</sub> Aromatics | 2,900   | NA      | NA      |        | 5 000    |
| Naphthalene                                | 3 100   | NA      | NA      | 140    | 700      |
| 2-Methynaphthalene                         | 590     | NA      | NA      | 10     | 2 000    |
| Acenaphthylene                             | 130     | NA      | NA      | 30     | 40       |
| Acenaphthene                               | 35      | NA      | NA      | 20     | 6 000    |
| Fluorene                                   | 91      | NA      | NA      | 30     | 40       |
| Phenanthrene                               | 230     | NA      | NA      | 40     | 10 000   |
| Anthracene                                 | 59      | NA      | NA      | 30     | 30       |
| Fluoranthene                               | 79      | NA      | NA      | 90     | 200      |
| Pyrene                                     | 110     | NA      | NA      | 20     | 20       |
| Benzo(a)anthracene                         | 35      | NA      | NA      | 1      | 1 000    |
| Chrysene                                   | 38      | NA      | NA      | 2      | 70       |
| Benzo[b]fluoranthene                       | 24      | NA      | NA      | 1      | 400      |
| Benzo[k]fluoranthene                       | <10     | NA      | NA      | 1      | 100      |
| Benzo[a]pvrene                             | 27      | NA      | NA      | 0.2    | 500      |
| Indeno[1,2,3-cd]pyrene                     | 13      | NA      | NA      | 0.5    | 100      |
| Dibenz[a,h]anthracene                      | <10     | NA      | NA      | 0.5    | 40       |
| Benzo[g,h,i]perylene                       | 17      | NA      | NA      | 20     | 20       |

Table 10 - Groundwater Analytical Data

Results presented in microgram per liter (ugL) or parts per billion (ppb) NA is not analyzed.

Compounds detected above RCGW-2 are in bold.

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### Taken from:

Draft Phase I/II Environmental Site Assessment, 284 Winter Street, Haverhill, MA, prepared by Lessard Environmental, Inc., dated December 2014.

