



# DRAINAGE MONITORING REPORT

GEOTECHNICAL | ENVIRONMENTAL | ECOLOGICAL | WATER | CONSTRUCTION MANAGEMENT

Known for excellence. Built on trust.

Eversource Transmission  
Line:

## F107 - Seacoast Reliability Project

Location:

**Durham, New  
Hampshire**

GZA Project No:

**04.0190967.00**

**TYPE OF INSPECTION:**  Daily  Weekly  Storm Event<sup>+</sup>  Reduced Frequency<sup>++</sup>  
 Other:

Date: **12/06/2020** Time: **1325** <sup>+</sup>Was this inspection triggered by a 0.25" storm event?  Yes  No

If yes, how did you determine whether a 0.25" storm event has occurred?  Rain Gauge  Weather Station  
 Other If other, please describe Weather Underground

+Storm event info (approx): Variable rain beginning early morning on 12/5 turning to wintery mix and snow in the afternoon and continuing until early morning on 12/6

Amount of rainfall (inches): 1.78

++Reason for Reduced Frequency  
(i.e., Monthly due to dry conditions):

Inspector name(s) and title(s): Matt Deane, Technical Specialist

Others present/affiliation(s):

Weather conditions (since last inspection): Variable sun and clouds, no measurable precipitation until 12/5

Weather conditions (time of inspection): Mostly cloudy, Low 30's

pH Meter Information (make/model): **Hanna HI98107**

Calibration Method: 2 Point  
Date: **12/06/20** Time: **1240**

Notes:

## PROJECT TEAM

### PROJECT OWNER

#### Eversource

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**CURRENT/RECENT SITE WORK ACTIVITIES / NOTES**

- Construction site nearby (inactive on this date).

**PHOTOGRAPHS**



UNH Wetland - 1 (Stormwater Area)



UNH Wetland - 2 (Stormwater Area)



UNH Wetland - 3 (Cattail Wetland)



UNH Wetland - 4 (Cattail Wetland)



UNH Wetland - 5 (Cattail Wetland)



UNH Wetland - 6 (Cattail Wetland)

**DRAINAGE AREA MONITORING**

**Location: UNH Wetland – 1 (Stormwater Area)**

Status of surface water at the time of inspection?  Dry  Standing  Flowing

pH: **8.5**

Observations/Notes: Shallow standing water approx. 1" deep. Turbid water observed

**Location: UNH Wetland – 2 (Stormwater Area)**

Status of surface water at the time of inspection?  Dry  Standing  Flowing

pH: **7.4**

Observations/Notes: Large area of variable depth standing water, max depth approx. 5". Turbid water observed.

**Location: UNH Wetland – 3 (Cattail Wetland)**

Status of surface water at the time of inspection?  Dry  Standing  Flowing

pH: **7.6**

Observations/Notes: Large area of variable depth standing water, max depth approx. 8". Turbid water observed

**Location: UNH Wetland – 4 (Cattail Wetland)**

Status of surface water at the time of inspection?  Dry  Standing  Flowing

pH: **6.3**

Observations/Notes: Large area of variable depth standing water, max depth approx. 8".

**Location: UNH Wetland – 5 (Cattail Wetland)**

Status of surface water at the time of inspection?  Dry  Standing  Flowing

pH: **6.2**

Observations/Notes: Large area of variable depth standing water, max depth approx. 8".

**Location: UNH Wetland – 6 (Cattail Wetland)**

Status of surface water at the time of inspection?  Dry  Standing  Flowing

pH: ---

Observations/Notes: Soil saturated but no standing water at surface.

**Location: College Brook – 1 (Upstream in Brook)**

Status of surface water at the time of inspection?  Dry  Standing  Flowing

pH: **Not Monitored**

Observations/Notes:

**Location: College Brook – 2 (Downstream in Brook)**

Status of surface water at the time of inspection?  Dry  Standing  Flowing

pH: **Not Monitored**

Observations/Notes:

<p><b>Location: CB – 1 (Catch Basin)</b> Status of surface water at the time of inspection? <input type="checkbox"/> Dry <input type="checkbox"/> Standing <input type="checkbox"/> Flowing pH: <b>Not Monitored</b> Observations/Notes:</p>
<p><b>Location: CB – 2 (Catch Basin)</b> Status of surface water at the time of inspection? <input type="checkbox"/> Dry <input type="checkbox"/> Standing <input type="checkbox"/> Flowing pH: <b>Not Monitored</b> Observations/Notes:</p>
<p><b>Location: RG – 1 (Rain Garden)</b> Status of surface water at the time of inspection? <input type="checkbox"/> Dry <input type="checkbox"/> Standing <input type="checkbox"/> Flowing pH: <b>Not Monitored</b> Observations/Notes:</p>
<p><b>Location: A Lot – 1 (Drainage Swale)</b> Status of surface water at the time of inspection? <input type="checkbox"/> Dry <input type="checkbox"/> Standing <input type="checkbox"/> Flowing pH: <b>Not Monitored</b> Observations/Notes:</p>
<p><b>Location: Reservoir Brook – 1 (Brook)</b> Status of surface water at the time of inspection? <input type="checkbox"/> Dry <input type="checkbox"/> Standing <input type="checkbox"/> Flowing pH: <b>Not Monitored</b> Observations/Notes:</p>
<p><b>Location:</b> Status of surface water at the time of inspection? <input type="checkbox"/> Dry <input type="checkbox"/> Standing <input type="checkbox"/> Flowing pH: Observations/Notes:</p>

<p><b>OTHER COMMENTS AND OBSERVATIONS</b></p> <ul style="list-style-type: none"><li>Monitoring locations UNH Wetland – 2 through 5 iced over. Ice manually broken to obtain measurement.</li></ul>
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## F107 - Seacoast Reliability Project

Location:

### Durham, New Hampshire

GZA Project No:

04.0190967.00

**TYPE OF INSPECTION:**  Daily  Weekly  Storm Event<sup>+</sup>  Reduced Frequency<sup>++</sup>  
 Other:

Date: **12/08/2020** Time: **1025** <sup>+</sup>Was this inspection triggered by a 0.25" storm event?  Yes  No

If yes, how did you determine whether a 0.25" storm event has occurred?  Rain Gauge  Weather Station  
 Other If other, please describe

+Storm event info (approx):

Amount of rainfall (inches):

++Reason for Reduced Frequency  
(i.e., Monthly due to dry conditions):

Inspector name(s) and title(s): Matt Deane, Technical Specialist

Others present/affiliation(s):

Weather conditions (since last inspection): Variable sun and clouds, no measurable precipitation

Weather conditions (time of inspection): Cloudy, High 20's

pH Meter Information (make/model): **Hanna HI98107**

Calibration Method: 2 Point

Date: **12/08/20** Time: **0935**

Notes:

## PROJECT TEAM

### PROJECT OWNER

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**CURRENT/RECENT SITE WORK ACTIVITIES / NOTES**

- Active construction/earthwork occurring in adjacent parking lot.

**PHOTOGRAPHS**



UNH Wetland - 1 (Stormwater Area)



UNH Wetland - 2 (Stormwater Area)



UNH Wetland - 3 (Cattail Wetland)



UNH Wetland - 4 (Cattail Wetland)



UNH Wetland - 5 (Cattail Wetland)



UNH Wetland - 6 (Cattail Wetland)

**DRAINAGE AREA MONITORING**

**Location: UNH Wetland – 1 (Stormwater Area)**

Status of surface water at the time of inspection?  Dry  Standing  Flowing

pH: --

Observations/Notes: Scarce standing water in vicinity, not enough to obtain measurement.

**Location: UNH Wetland – 2 (Stormwater Area)**

Status of surface water at the time of inspection?  Dry  Standing  Flowing

pH: 7.4

Observations/Notes: Large area of variable depth standing water, max depth approx. 4". Surface iced over.

**Location: UNH Wetland – 3 (Cattail Wetland)**

Status of surface water at the time of inspection?  Dry  Standing  Flowing

pH: 8.2

Observations/Notes: Large area of variable depth standing water, max depth approx. 6". Surface iced over.

**Location: UNH Wetland – 4 (Cattail Wetland)**

Status of surface water at the time of inspection?  Dry  Standing  Flowing

pH: 6.2

Observations/Notes: Large area of variable depth standing water, max depth approx. 8". Surface iced over.

**Location: UNH Wetland – 5 (Cattail Wetland)**

Status of surface water at the time of inspection?  Dry  Standing  Flowing

pH: 6.1

Observations/Notes: Large area of variable depth standing water, max depth approx. 8". Surface iced over.

**Location: UNH Wetland – 6 (Cattail Wetland)**

Status of surface water at the time of inspection?  Dry  Standing  Flowing

pH: ---

Observations/Notes:

**Location: College Brook – 1 (Upstream in Brook)**

Status of surface water at the time of inspection?  Dry  Standing  Flowing

pH: **Not Monitored**

Observations/Notes:

**Location: College Brook – 2 (Downstream in Brook)**

Status of surface water at the time of inspection?  Dry  Standing  Flowing

pH: **Not Monitored**

Observations/Notes:

<p><b>Location: CB – 1 (Catch Basin)</b> Status of surface water at the time of inspection? <input type="checkbox"/> Dry <input type="checkbox"/> Standing <input type="checkbox"/> Flowing pH: <b>Not Monitored</b> Observations/Notes:</p>
<p><b>Location: CB – 2 (Catch Basin)</b> Status of surface water at the time of inspection? <input type="checkbox"/> Dry <input type="checkbox"/> Standing <input type="checkbox"/> Flowing pH: <b>Not Monitored</b> Observations/Notes:</p>
<p><b>Location: RG – 1 (Rain Garden)</b> Status of surface water at the time of inspection? <input type="checkbox"/> Dry <input type="checkbox"/> Standing <input type="checkbox"/> Flowing pH: <b>Not Monitored</b> Observations/Notes:</p>
<p><b>Location: A Lot – 1 (Drainage Swale)</b> Status of surface water at the time of inspection? <input type="checkbox"/> Dry <input type="checkbox"/> Standing <input type="checkbox"/> Flowing pH: <b>Not Monitored</b> Observations/Notes:</p>
<p><b>Location: Reservoir Brook – 1 (Brook)</b> Status of surface water at the time of inspection? <input type="checkbox"/> Dry <input type="checkbox"/> Standing <input type="checkbox"/> Flowing pH: <b>Not Monitored</b> Observations/Notes:</p>
<p><b>Location:</b> Status of surface water at the time of inspection? <input type="checkbox"/> Dry <input type="checkbox"/> Standing <input type="checkbox"/> Flowing pH: Observations/Notes:</p>

<p><b>OTHER COMMENTS AND OBSERVATIONS</b></p> <ul style="list-style-type: none"><li>Iced over monitoring areas were broken through to obtain pH measurement.</li></ul>
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## F107 - Seacoast Reliability Project

Location:

### Durham, New Hampshire

GZA Project No:

04.0190967.00

**TYPE OF INSPECTION:**  Daily  Weekly  Storm Event<sup>+</sup>  Reduced Frequency<sup>++</sup>  
 Other:

Date: **12/10/2020** Time: **0950** <sup>+</sup>Was this inspection triggered by a 0.25" storm event?  Yes  No

If yes, how did you determine whether a 0.25" storm event has occurred?  Rain Gauge  Weather Station  
 Other If other, please describe

+Storm event info (approx):

Amount of rainfall (inches):

++Reason for Reduced Frequency  
(i.e., Monthly due to dry conditions):

Inspector name(s) and title(s): Matt Deane, Technical Specialist

Others present/affiliation(s):

Weather conditions (since last inspection): Variable sun and clouds, no measurable precipitation

Weather conditions (time of inspection): Cloudy, High 30's

pH Meter Information (make/model): **Hanna HI98107**

Calibration Method: 2 Point

Date: **12/10/20** Time: **0905**

Notes:

## PROJECT TEAM

### PROJECT OWNER

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**CURRENT/RECENT SITE WORK ACTIVITIES / NOTES**

- Active construction/earthwork occurring in adjacent parking lot.

**PHOTOGRAPHS**



UNH Wetland - 1 (Stormwater Area)



UNH Wetland - 2 (Stormwater Area)



UNH Wetland - 3 (Cattail Wetland)



UNH Wetland - 4 (Cattail Wetland)



UNH Wetland - 5 (Cattail Wetland)



UNH Wetland - 6 (Cattail Wetland)

**DRAINAGE AREA MONITORING**

**Location: UNH Wetland – 1 (Stormwater Area)**

Status of surface water at the time of inspection?  Dry  Standing  Flowing

pH: --

Observations/Notes: Scarce standing water in vicinity, not enough to obtain measurement.

**Location: UNH Wetland – 2 (Stormwater Area)**

Status of surface water at the time of inspection?  Dry  Standing  Flowing

pH: 7.6

Observations/Notes: Large area of variable depth standing water, max depth approx. 4". Surface iced over.

**Location: UNH Wetland – 3 (Cattail Wetland)**

Status of surface water at the time of inspection?  Dry  Standing  Flowing

pH: 8.1

Observations/Notes: Large area of variable depth standing water, max depth approx. 6". Surface iced over.

**Location: UNH Wetland – 4 (Cattail Wetland)**

Status of surface water at the time of inspection?  Dry  Standing  Flowing

pH: 6.5

Observations/Notes: Large area of variable depth standing water, max depth approx. 8". Surface iced over.

**Location: UNH Wetland – 5 (Cattail Wetland)**

Status of surface water at the time of inspection?  Dry  Standing  Flowing

pH: 6.2

Observations/Notes: Large area of variable depth standing water, max depth approx. 8". Surface iced over.

**Location: UNH Wetland – 6 (Cattail Wetland)**

Status of surface water at the time of inspection?  Dry  Standing  Flowing

pH: ---

Observations/Notes:

**Location: College Brook – 1 (Upstream in Brook)**

Status of surface water at the time of inspection?  Dry  Standing  Flowing

pH: **Not Monitored**

Observations/Notes:

**Location: College Brook – 2 (Downstream in Brook)**

Status of surface water at the time of inspection?  Dry  Standing  Flowing

pH: **Not Monitored**

Observations/Notes:

**Location: CB – 1 (Catch Basin)**

Status of surface water at the time of inspection?  Dry  Standing  Flowing

pH: **Not Monitored**

Observations/Notes:

**Location: CB – 2 (Catch Basin)**

Status of surface water at the time of inspection?  Dry  Standing  Flowing

pH: **Not Monitored**

Observations/Notes:

**Location: RG – 1 (Rain Garden)**

Status of surface water at the time of inspection?  Dry  Standing  Flowing

pH: **Not Monitored**

Observations/Notes:

**Location: A Lot – 1 (Drainage Swale)**

Status of surface water at the time of inspection?  Dry  Standing  Flowing

pH: **Not Monitored**

Observations/Notes:

**Location: Reservoir Brook – 1 (Brook)**

Status of surface water at the time of inspection?  Dry  Standing  Flowing

pH: **Not Monitored**

Observations/Notes:

**Location:**

Status of surface water at the time of inspection?  Dry  Standing  Flowing

pH:

Observations/Notes:

**OTHER COMMENTS AND OBSERVATIONS**

- Ice observed at monitoring location. Broke through ice to obtain pH measurements.