



# 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: **8/30/2020** Time: **1420** <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 throughout the day on 8/29

Amount of rainfall (inches): 1.02

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

Inspector name(s) and title(s): Rebecca Cox, P.E., Senior Project Manager

Others present/affiliation(s):

Weather conditions (since last inspection): Mostly fair with the exception of 8/29 which saw variable rain throughout the day

Weather conditions (time of inspection): Partly cloudy, Low 70's

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

Calibration Method: 2 Point

Date: **8/30/20** Time: **1300**

Notes:

## PROJECT TEAM

### PROJECT OWNER

Eversource

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

- None

**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:

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

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

pH: 10.1

Observations/Notes: Some very small pockets of standing water ~ 1" deep

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

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

pH: ---

Observations/Notes:

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

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

pH: ---

Observations/Notes:

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

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

pH: ---

Observations/Notes:

**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**

- None



# DRAINAGE MONITORING REPORT

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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: **8/31/2020** Time: **1340** <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): Mostly fair, no measurable precipitation

Weather conditions (time of inspection): Partly cloudy, Low 70's

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

Calibration Method: 2 Point

Date: **8/31/20** Time: **1250**

Notes:

## PROJECT TEAM

### PROJECT OWNER

#### Eversource

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Email: [lucas.turcotte@gza.com](mailto:lucas.turcotte@gza.com)

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

- None

**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:

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

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

pH: ---

Observations/Notes: Soil damp but not standing water

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

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

pH: ---

Observations/Notes:

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

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

pH: ---

Observations/Notes:

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

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

pH: ---

Observations/Notes:

**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**

- All monitoring locations dry at time of inspection.





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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: **09/03/2020** Time: **1000** <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): Variable rain throughout the day on 9/2

Amount of rainfall (inches): 0.14

++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): Mostly cloudy, variable rain throughout the day on 9/2

Weather conditions (time of inspection): Cloudy, Low 70's

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

Calibration Method: 2 Point

Date: **9/3/20** Time: **0920**

Notes:

## PROJECT TEAM

### PROJECT OWNER

#### Eversource

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

- None

**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:

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

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

pH: **8.5**

Observations/Notes: Large area of standing water, variable depth with a max of ~2"

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

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

pH: ---

Observations/Notes:

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

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

pH: ---

Observations/Notes:

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

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

pH: ---

Observations/Notes:

**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**

- None