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+ ☐ Reduced Frequency++ ☐ Other:

Date: **11/10/2020** Time: **1015** +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 with some clouds, no measurable precipitation

Weather conditions (time of inspection): Sunny, Mid 60's

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

Calibration Method: 2 Point
Date: **11/10/20** Time: **0930**

Notes:

PROJECT TEAM

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CURRENT/RECENT SITE WORK ACTIVITIES / NOTES

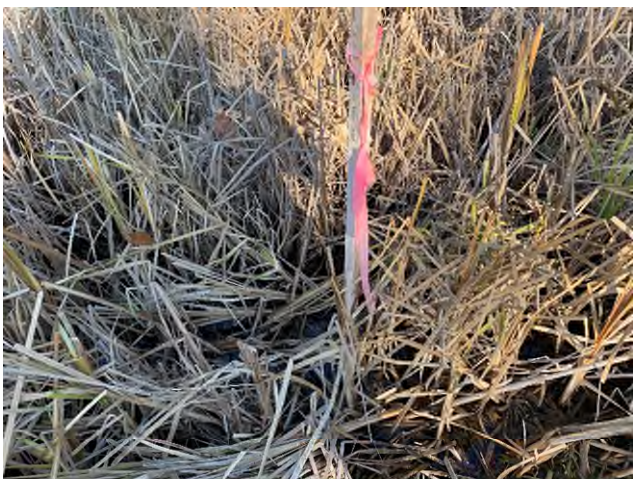
- None

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: **---**
Observations/Notes: Soil saturated but no standing water

Location: UNH Wetland – 3 (Cattail Wetland)
Status of surface water at the time of inspection? ☐ Dry ☒ Standing ☐ Flowing
pH: **7.2**
Observations/Notes: Intermittent standing water approx. 2" deep

Location: **UNH Wetland – 4 (Cattail Wetland)**
Status of surface water at the time of inspection? ☐ Dry ☒ Standing ☐ Flowing
pH: **6.5**
Observations/Notes: Intermittent standing water approx. 3" deep

Location: **UNH Wetland – 5 (Cattail Wetland)**
Status of surface water at the time of inspection? ☐ Dry ☒ Standing ☐ Flowing
pH: **6.5**
Observations/Notes: Intermittent standing water approx. 4" deep

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

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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+ ☐ Reduced Frequency++ ☐ Other:

Date: **11/12/2020** Time: **1025** +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): Light rain mid to late morning of 11/12

Amount of rainfall (inches): 0.04

++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 on 10/11, cloudy with light rain mid to late morning on 11/12

Weather conditions (time of inspection): Light rain, High 50's

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

Calibration Method: 2 Point
Date: **11/12/20** Time: **0945**

Notes:

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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: ****7.6**
Observations/Notes: **Small pockets of water in surrounding area, reading taken approx. 36" from UNH Wetland – 2 in approx. 0.5" of standing water.

Location: UNH Wetland – 3 (Cattail Wetland)
Status of surface water at the time of inspection? ☐ Dry ☒ Standing ☐ Flowing
pH: **7.1**
Observations/Notes: Small area of standing water approx. 2" deep

Location: **UNH Wetland – 4 (Cattail Wetland)**
Status of surface water at the time of inspection? ☐ Dry ☒ Standing ☐ Flowing
pH: **6.4**
Observations/Notes: Intermittent standing water approx. 3" deep

Location: **UNH Wetland – 5 (Cattail Wetland)**
Status of surface water at the time of inspection? ☐ Dry ☒ Standing ☐ Flowing
pH: **6.2**
Observations/Notes: Intermittent standing water approx. 3" deep

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

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Location:

Durham, New Hampshire

GZA Project No:

04.0190967.00

TYPE OF INSPECTION: ☐ Daily ☐ Weekly ☒ Storm Event+ ☐ Reduced Frequency++ ☐ Other:

Date: **11/13/2020** Time: **1605** +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): Light rain afternoon of 11/13

Amount of rainfall (inches): 0.03

++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 with light rain afternoon of 11/13

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

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

Calibration Method: 2 Point
Date: **11/13/20** Time: **1520**

Notes:

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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: **7.6**
Observations/Notes: Intermittent standing water, max depth approx. 1".

Location: UNH Wetland – 3 (Cattail Wetland)
Status of surface water at the time of inspection? ☐ Dry ☒ Standing ☐ Flowing
pH: **7.0**
Observations/Notes: Small area of standing water approx. 2" deep

Location: **UNH Wetland – 4 (Cattail Wetland)**
Status of surface water at the time of inspection? ☐ Dry ☒ Standing ☐ Flowing
pH: **6.3**
Observations/Notes: Intermittent standing water approx. 3" deep

Location: **UNH Wetland – 5 (Cattail Wetland)**
Status of surface water at the time of inspection? ☐ Dry ☒ Standing ☐ Flowing
pH: **6.4**
Observations/Notes: Intermittent standing water approx. 3" deep

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