



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: 11/20/2020 Time: 1535 ⁺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 in early morning hours turning to steady rain and thunderstorms late morning and early afternoon of 11/23

Amount of rainfall (inches): 1.59

++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 clouds, no measurable precipitation until 11/23

Weather conditions (time of inspection): Cloudy, mid 40's

pH Meter Information (make/model): Hanna HI98107

Calibration Method: 2 Point

Date: 11/23/20 Time: 1440

Notes:

PROJECT TEAM

PROJECT OWNER

Eversource

Attn: Dena Champy-Project Manager

Phone: 508-954-2736

Email: dena.champy@eversource.com

Attn: Kurt Nelson-Permitting Specialist

Phone: 603-714-3031

Email: kurt.nelson@eversource.com

Attn: Tom Meister

Phone: 339-987-7901

Email: thomas.meister@eversource.com

Attn: Sam Eames

Phone: 603-915-0073

Email: samual.eames@eversource.com

EVERSOURCE COMPLIANCE

Attn: Matt Cardin

Phone: 603-988-6635

Email: matthew.cardin@eversource.com

FIELD SERVICES SAFETY MANAGER

Transmission ROW

Attn: Joshua Scott

Phone: 603-848-7759

Email: joshua.scott@eversource.com

ENVIRONMENTAL CONSULTANT

GZA GeoEnvironmental, Inc.

Attn: Deborah Zarta Gier

Phone: 603-380-5024

Email: Deborah.zartagier@gza.com

Attn: Rebecca Cox

Phone: 603-315-7520

Email: rebecca.cox@gza.com

Attn: Lucas Turcotte

Phone: 603-380-5017

Email: 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: **9.6**

Observations/Notes: Shallow standing water approx. 0.5" deep.

Location: UNH Wetland – 2 (Stormwater Area)

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

pH: **7.3**

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

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. 6".

Location: UNH Wetland – 4 (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. 7".

Location: UNH Wetland – 5 (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. 7".

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:

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: 11/25/2020 Time: 1005 ⁺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 clouds, no measurable precipitation

Weather conditions (time of inspection): Light snow, mid 30's

pH Meter Information (make/model): Hanna HI98107

Calibration Method: 2 Point

Date: 11/25/20 Time: 0920

Notes:

PROJECT TEAM

PROJECT OWNER

Eversource

Attn: Dena Champy-Project Manager

Phone: 508-954-2736

Email: dena.champy@eversource.com

Attn: Kurt Nelson-Permitting Specialist

Phone: 603-714-3031

Email: kurt.nelson@eversource.com

Attn: Tom Meister

Phone: 339-987-7901

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EVERSOURCE COMPLIANCE

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Phone: 603-988-6635

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CURRENT/RECENT SITE WORK ACTIVITIES / NOTES

- Active earthwork/construction in adjacent parking lot.

PHOTOGRAPHS



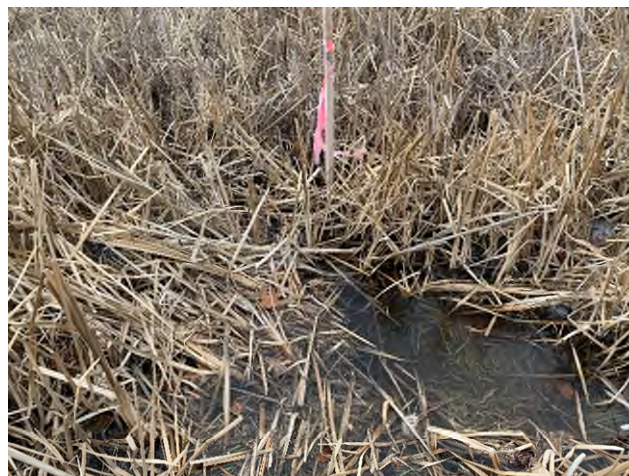
UNH Wetland - 1 (Stormwater Area)



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:

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".

Location: UNH Wetland – 3 (Cattail Wetland)

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

pH: 7.7

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

Location: UNH Wetland – 4 (Cattail Wetland)

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

pH: 6.6

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

Location: UNH Wetland – 5 (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. 6".

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:

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 had thin layer of ice. Ice was manually broken to obtain pH reading.



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**Durham, New
Hampshire**

GZA Project No:

04.0190967.00

TYPE OF INSPECTION:

- Daily Weekly Storm Event⁺ Reduced Frequency⁺⁺
 Other:

Date: **11/27/2020** 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 Weather Underground

+Storm event info (approx): Variable light rain beginning late evening of 11/25 and continuing through the evening of 11/26

Amount of rainfall (inches): 0.26

++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 clouds, no measurable precipitation until evening of 11/25

Weather conditions (time of inspection): Cloudy, mid 40's

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

Calibration Method: 2 Point

Date: **11/27/20** Time: **0925**

Notes:

PROJECT TEAM

PROJECT OWNER

Eversource

Attn: Dena Champy-Project Manager

Phone: 508-954-2736

Email: dena.champy@eversource.com

Attn: Kurt Nelson-Permitting Specialist

Phone: 603-714-3031

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CURRENT/RECENT SITE WORK ACTIVITIES / NOTES

- Active earthwork/construction 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: ****9.2**

Observations/Notes: ****No standing water at UNH Wetland – 1 monitoring location, reading taken approx. 2' west in approx. 1" standing water.**

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". Minor turbidity observed.

Location: UNH Wetland – 3 (Cattail Wetland)

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

pH: **7.7**

Observations/Notes: Large area of variable depth standing water, max depth approx. 6". Minor turbidity observed.

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. 6".

Location: UNH Wetland – 5 (Cattail Wetland)

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

pH: **6.4**

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

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:

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.