



DRAINAGE MONITORING REPORT

GEOTECHNICAL | ENVIRONMENTAL | ECOLOGICAL | WATER | CONSTRUCTION MANAGEMENT

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Eversource Transmission
Line:

F107 - Seacoast Reliability Project

Location:

Newington, New Hampshire

GZA Project No:

04.0190999.81

TYPE OF INSPECTION:

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

Date: **2/9/2022** Time: **0955** ⁺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: NOAA

+Storm event info (approx): **1/30** Amount of rainfall (inches): **0.77** Amount of snowfall (inches): **13.0**

+Storm event info (approx): **2/4** Amount of rainfall (inches): **1.23** Amount of snowfall (inches): **0.30**

+Storm event info (approx): **2/5** Amount of rainfall (inches): **1.50** Amount of snowfall (inches): **0.70**

+Storm event info (approx): **2/8** Amount of rainfall (inches): **0.64** Amount of snowfall (inches): **N/A**

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

Inspector name(s) and title(s): **Logan Young, Field Scientist**

Others present/affiliation(s): **N/A**

Weather conditions (since last inspection): Partly clear with high temperatures ranging from the low 20's to the low 40's, precipitation events occurred on 1/30, 2/4, 2/5, and 2/8.

Weather conditions (time of inspection): Clear, Mid 30's

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

Calibration Method: 2 Point
Date: **2/9/2022** Time: **0950**

Notes: None

PROJECT TEAM

PROJECT OWNER

Eversource

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CURRENT/RECENT SITE WORK ACTIVITIES / NOTES

- None.

PHOTOGRAPHS



29 Gundalow - 1 (Drainage Area)



29 Gundalow - 2 (Culvert)



64 Gundalow - 1 (Drainage Course)



64 Gundalow - 2 (Drainage Course)



4 Brickyard Circle - 1 (Drainage Course)



4 Brickyard Circle - 2 (Drainage Course)

PHOTOGRAPHS



4 Brickyard Circle – 3 (Drainage Course)

DRAINAGE AREA MONITORING

Location: 29 Gundalow – 1 (Drainage Area)

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

pH: **Frozen**

Observations/Notes: Water frozen through to substrate.

Location: 29 Gundalow – 2 (Culvert)

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

pH: **Frozen**

Observations/Notes: Water frozen through to substrate.

Location: 64 Gundalow – 1 (Drainage Course)

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

pH: **Frozen**

Observations/Notes: Water frozen through to substrate.

Location: 64 Gundalow – 2 (Drainage Course)

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

pH: **Frozen**

Observations/Notes: Partially frozen conditions in front of culvert inlets. Ice depth of approx. 4" to substrate with evidence of flow in channels within ice.

Location: 4 Brickyard Circle – 1 (Drainage Course)

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

pH: **Frozen**

Observations/Notes: Partially frozen conditions in area adjacent to culvert outlets. Ice depth of approx. 4" to substrate with evidence of flow in channels within ice.

Location: 4 Brickyard Circle – 2 (Drainage Course)

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

pH: **7.0**

Observations/Notes: Partially frozen conditions. Area of water above ice along south wall of raceway and max depth approx. 2.0". Ice depth of approx. 4" to substrate.

Location: 4 Brickyard Circle – 3 (Drainage Course)

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

pH: **6.8**

Observations/Notes: Partially frozen conditions. Area of water with flow along center of raceway and max depth approx. 1.5". Ice depth of approx. 4" to substrate.

OTHER COMMENTS AND OBSERVATIONS

- Readings taken during this field event were limited due to frozen or partially frozen conditions throughout all monitoring locations.