



DRAINAGE MONITORING REPORT

GEOTECHNICAL | ENVIRONMENTAL | ECOLOGICAL | WATER | CONSTRUCTION MANAGEMENT

Known for excellence. Built on trust.

Eversource Transmission Line:

F107 - Seacoast Reliability Project

Location:

Newington, New Hampshire

GZA Project No:

04.0190967.00

TYPE OF INSPECTION:

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

Date: **04/18/2021** Time: **1000** ⁺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 beginning early morning 4/16 with intermittent wintery mix continuing through afternoon of 4/17

Amount of rainfall (inches): 1.34

++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): Primarily cloudy

Weather conditions (time of inspection): Mostly cloudy, Low 50's

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

Calibration Method: 2 Point
Date: **04/18/2021** Time: **0955**

Notes:

PROJECT TEAM

PROJECT OWNER

Eversource

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CURRENT/RECENT SITE WORK ACTIVITIES / NOTES

- Peat moss socks installed in drainage areas on 29 Gundalow Landing (1), 64 Gundalow Landing (3), and 4 Brickyard Circle (1) since 04/02/2021.

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: --

Observations/Notes: Soil saturated, not enough standing water to obtain measurement.

Location: 29 Gundalow – 2 (Culvert)

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

pH: 12.5

Observations/Notes: Approx. 8" of flowing water at culvert inlet.

Location: 64 Gundalow – 1 (Drainage Course)

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

pH: 11.7

Observations/Notes: Accessible flowing water extending approx. 14" beyond culvert outlet.

Location: 64 Gundalow – 2 (Drainage Course)

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

pH: 9.2

Observations/Notes: Area of flowing water extending approx. 18" from culvert inlets.

Location: 4 Brickyard Circle – 1 (Drainage Course)

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

pH: 7.7

Observations/Notes: Flowing water in drainage course extending approx. 2.5' from culvert outlets, max depth approx. 8". Flow observed over top of peat moss log.

Location: 4 Brickyard Circle – 2 (Drainage Course)

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

pH: 7.6

Observations/Notes: Water flowing approx. 3" deep.

Location: 4 Brickyard Circle – 3 (Drainage Course)

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

pH: 7.5

Observations/Notes: Water flowing approx. 5" deep.

OTHER COMMENTS AND OBSERVATIONS

- None.



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Location:

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GZA Project No:

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

Date: **04/22/2021** Time: **0935** ⁺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): Intermittent rain with brief thunderstorm afternoon and early evening of 4/21

Amount of rainfall (inches): 0.19

++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): Primarily cloudy

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

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

Calibration Method: 2 Point

Date: **04/22/2021** Time: **0930**

Notes:

PROJECT TEAM

PROJECT OWNER

Eversource

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CURRENT/RECENT SITE WORK ACTIVITIES / NOTES

- Peat moss socks installed in drainage areas on 29 Gundalow Landing (1), 64 Gundalow Landing (3), and 4 Brickyard Circle (1) since 04/02/2021.

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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: --

Observations/Notes: Soil saturated, not enough standing water to obtain measurement.

Location: 29 Gundalow – 2 (Culvert)

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

pH: 12.3

Observations/Notes: Approx. 8" of flowing water at culvert inlet.

Location: 64 Gundalow – 1 (Drainage Course)

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

pH: 11.4

Observations/Notes: Accessible flowing water extending approx. 14" beyond culvert outlet.

Location: 64 Gundalow – 2 (Drainage Course)

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

pH: 8.0

Observations/Notes: Area of flowing water extending approx. 18" from culvert inlets.

Location: 4 Brickyard Circle – 1 (Drainage Course)

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

pH: 7.0

Observations/Notes: Flowing water in drainage course extending approx. 2.5' from culvert outlets, max depth approx. 8". Flow observed over top of peat moss log.

Location: 4 Brickyard Circle – 2 (Drainage Course)

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

pH: 7.3

Observations/Notes: Water flowing approx. 3" deep.

Location: 4 Brickyard Circle – 3 (Drainage Course)

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

pH: 7.2

Observations/Notes: Water flowing approx. 5" deep.

OTHER COMMENTS AND OBSERVATIONS

- None.