



# 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<sup>+</sup>  Reduced Frequency<sup>++</sup>  
 Other:

Date: **12/01/2020** Time: **0935** <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 beginning late morning on 11/30 continuing with strong winds until early morning on 12/1

Amount of rainfall (inches): 1.74

++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 sun and clouds, no measurable precipitation until 11/30

Weather conditions (time of inspection): Cloudy, mid 50's

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

Calibration Method: 2 Point

Date: **12/01/20** Time: **0930**

Notes:

## PROJECT TEAM

### PROJECT OWNER

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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: **6.2**

Observations/Notes: Intermittent areas of standing water in grass, max depth approx. 0.5"

**Location: 29 Gundalow – 2 (Culvert)**

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

pH: **10.9**

Observations/Notes: Water extending approx. 12" beyond culvert inlet into stone area, approx. max depth 4". Flow visible through culvert. Precipitate observed on stone and leaf litter below water.

**Location: 64 Gundalow – 1 (Drainage Course)**

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

pH: **9.9**

Observations/Notes: Accessible flowing water extending approx. 8" from culvert outlet, approx. 1" deep.

**Location: 64 Gundalow – 2 (Drainage Course)**

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

pH: **8.7**

Observations/Notes: Large area of pooled water extending approx. 5' from culvert inlets, max depth approx. 8". Visible flow through culverts.

**Location: 4 Brickyard Circle – 1 (Drainage Course)**

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

pH: **7.5**

Observations/Notes: Water flowing through culvert with pools at outlet, max depth approx. 10". Visible flow through culvert and into raceway.

**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 through center and adjacent to east wall of raceway, approx. 4" deep.

**Location: 4 Brickyard Circle – 3 (Drainage Course)**

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

pH: **6.8**

Observations/Notes: Water flowing with pooled area in center of raceway, max depth approx. 6".

**Location: Knight's Brook – 1 (Upstream in Brook)**

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

pH: **Not Monitored**

Observations/Notes:



**Location: Knight's Brook – 2 (Downstream in Brook)**

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

pH: **Not Monitored**

Observations/Notes:

**Location: Knight's Brook – 3 (Above Duct Bank in Brook)**

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

pH: **Not Monitored**

Observations/Notes:

**Location: Hannah – 1 (Wetland NW-22)**

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

pH: **Not Monitored**

Observations/Notes:

**Location: Hannah – 2 (Wetland NW-24)**

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

pH: **Not Monitored**

Observations/Notes:

**Location: Flynn Pit – 1 (Wetland NW-4)**

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:

### Newington, New Hampshire

GZA Project No:

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**TYPE OF INSPECTION:**  Daily  Weekly  Storm Event<sup>+</sup>  Reduced Frequency<sup>++</sup>  
 Other:

Date: **12/03/2020** Time: **1045** <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):

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 sun and clouds, no measurable precipitation

Weather conditions (time of inspection): Sunny, Low 40's

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

Calibration Method: 2 Point

Date: **12/03/20** Time: **1040**

Notes:

## PROJECT TEAM

### PROJECT OWNER

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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: --

Observations/Notes: Saturated soil but no standing water.

**Location: 29 Gundalow – 2 (Culvert)**

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

pH: 12.3

Observations/Notes: Water extending approx. 12" beyond culvert inlet into stone area, approx. max depth 4". Flow visible through culvert. Precipitate observed on stone and leaf litter below water.

**Location: 64 Gundalow – 1 (Drainage Course)**

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

pH: 11.8

Observations/Notes: Accessible flowing water extending approx. 8" from culvert outlet, approx. 1" deep.

**Location: 64 Gundalow – 2 (Drainage Course)**

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

pH: 9.2

Observations/Notes: Standing water extending approx. 2' from culvert inlets, max depth approx. 4".

**Location: 4 Brickyard Circle – 1 (Drainage Course)**

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

pH: 8.1

Observations/Notes: Standing water extending approx. 2.5' from outlet, max depth approx. 10".

**Location: 4 Brickyard Circle – 2 (Drainage Course)**

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

pH: 7.8

Observations/Notes: Water flowing through center and adjacent to east wall of raceway, 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: Pooled area in center of raceway, max depth approx. 5".

**Location: Knight's Brook – 1 (Upstream in Brook)**

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

pH: **Not Monitored**

Observations/Notes:

**Location: Knight's Brook – 2 (Downstream in Brook)**

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

pH: **Not Monitored**

Observations/Notes:

**Location: Knight's Brook – 3 (Above Duct Bank in Brook)**

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

pH: **Not Monitored**

Observations/Notes:

**Location: Hannah – 1 (Wetland NW-22)**

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

pH: **Not Monitored**

Observations/Notes:

**Location: Hannah – 2 (Wetland NW-24)**

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

pH: **Not Monitored**

Observations/Notes:

**Location: Flynn Pit – 1 (Wetland NW-4)**

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.