



# 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: **7/29/2020** Time: **0925** <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

+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): Dry and hot, no measurable precipitation

Weather conditions (time of inspection): Sunny, High 70's

pH Meter Information (make/model): Hanna HI98107

Calibration Method: 2 Point

Date: **7/29/20** Time: **0920**

Notes:

## PROJECT TEAM

### PROJECT OWNER

#### Eversource

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**CURRENT/RECENT SITE WORK ACTIVITIES / NOTES**

- Sod and loam/seed recently applied around drainage area. Watered periodically. No watering occurring at time of inspection.

**PHOTOGRAPHS**



29 Gundalow -1 (Drainage Area)



29 Gundalow -1 (Drainage Area)



64 Gundalow - 1 (Drainage Course)



64 Gundalow - 2 (Drainage Course)



4 Brickyard Circle - 1 (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:

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

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

pH: ---

Observations/Notes: Bottom of culvert observed to be moist but not sufficient water to measure pH

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

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

pH: ---

Observations/Notes:

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

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

pH: **6.6**

Observations/Notes: Small area of standing water adjacent to culvert inlet, approx. 1" deep

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

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

pH: **6.8**

Observations/Notes: ~ 8" of standing water extending ~ 12" beyond culvert outlet in grassed raceway

**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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## 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: **7/30/2020** Time: **1500** <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

+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): Generally fair with some variable clouds, no measurable precipitation

Weather conditions (time of inspection): Sunny, High 80's

pH Meter Information (make/model): Hanna HI98107

Calibration Method: 2 Point

Date: **7/30/20** Time: **1455**

Notes:

## PROJECT TEAM

### PROJECT OWNER

#### Eversource

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**CURRENT/RECENT SITE WORK ACTIVITIES / NOTES**

- Sod and loam/seed recently applied around drainage area. Watered periodically. No watering occurring at time of inspection.

**PHOTOGRAPHS**



29 Gundalow - 1 (Drainage Area)



29 Gundalow - 1 (Drainage Area)



64 Gundalow - 1 (Drainage Course)



64 Gundalow - 2 (Drainage Course)



4 Brickyard Circle - 1 (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:

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

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

pH: ---

Observations/Notes: Bottom of culvert observed to be moist but not sufficient water to measure pH.

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

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

pH: ---

Observations/Notes:

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

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

pH: **6.9**

Observations/Notes: Small area of standing water adjacent to culvert inlet, approx. 1" deep

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

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

pH: **7.1**

Observations/Notes: ~ 8" of standing water extending ~ 12" beyond culvert outlet in grassed raceway

**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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### Newington, New Hampshire

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#### TYPE OF INSPECTION:

- Daily  Weekly  Storm Event<sup>+</sup>  Reduced Frequency<sup>++</sup>  
 Other:

Date: **7/31/2020** Time: **1355** <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

+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 sunny, no measurable precipitation

Weather conditions (time of inspection): Sunny, Low 80's

pH Meter Information (make/model): Hanna HI98107

Calibration Method: 2 Point

Date: **7/31/20** Time: **1350**

Notes:

## PROJECT TEAM

### PROJECT OWNER

#### Eversource

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**CURRENT/RECENT SITE WORK ACTIVITIES / NOTES**

- Sod and loam/seed recently applied around drainage area. Watered periodically. No watering occurring at time of inspection.

**PHOTOGRAPHS**



29 Gundalow - 1 (Drainage Area)



29 Gundalow - 1 (Drainage Area)



64 Gundalow - 1 (Drainage Course)



64 Gundalow - 2 (Drainage Course)



4 Brickyard Circle - 1 (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:

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

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

pH: ---

Observations/Notes: Bottom of culvert observed moist but not sufficient water to measure pH.

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

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

pH: ---

Observations/Notes:

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

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

pH: 6.7

Observations/Notes: Small area of standing water adjacent to culvert inlet, approx. 1" deep

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

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

pH: 7.0

Observations/Notes: ~ 8" of standing water extending ~ 12" beyond culvert outlet in grassed raceway

**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