



# 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: 8/11/2020 Time: 0940 <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): Fair, no measurable precipitation

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

pH Meter Information (make/model): Hanna HI98107

Calibration Method: 2 Point

Date: 8/11/20 Time: 0935

Notes:

## PROJECT TEAM

### PROJECT OWNER

Eversource

Attn: Dena Champy-Project Manager

Phone: 508-954-2736

Email: [dena.champy@eversource.com](mailto:dena.champy@eversource.com)

Attn: Kurt Nelson-Permitting Specialist

Phone: 603-714-3031

Email: [kurt.nelson@eversource.com](mailto:kurt.nelson@eversource.com)

Attn: Tom Meister

Phone: 339-987-7901

Email: [thomas.meister@eversource.com](mailto:thomas.meister@eversource.com)

Attn: Sam Eames

Phone: 603-915-0073

Email: [samual.eames@eversource.com](mailto:samual.eames@eversource.com)

### EVERSOURCE COMPLIANCE

Attn: Matt Cardin

Phone: 603-988-6635

Email: [matthew.cardin@eversource.com](mailto:matthew.cardin@eversource.com)

### FIELD SERVICES SAFETY MANAGER

Transmission ROW

Attn: Joshua Scott

Phone: 603-848-7759

Email: [joshua.scott@eversource.com](mailto:joshua.scott@eversource.com)

### ENVIRONMENTAL CONSULTANT

GZA GeoEnvironmental, Inc.

Attn: Deborah Zarta Gier

Phone: 603-380-5024

Email: [Deborah.zartagier@gza.com](mailto:Deborah.zartagier@gza.com)

Attn: Rebecca Cox

Phone: 603-315-7520

Email: [rebecca.cox@gza.com](mailto:rebecca.cox@gza.com)

Attn: Lucas Turcotte

Phone: 603-380-5017

Email: [lucas.turcotte@gza.com](mailto:lucas.turcotte@gza.com)

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

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

**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)

**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:

**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: **6.3**

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



# DRAINAGE MONITORING REPORT

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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: **8/12/2020** Time: **0915** <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): Sunny, no measurable precipitation

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

pH Meter Information (make/model): Hanna HI98107

Calibration Method: 2 Point

Date: **8/12/20** Time: **0920**

Notes:

## PROJECT TEAM

### PROJECT OWNER

#### Eversource

Attn: Dena Champy-Project Manager

Phone: 508-954-2736

Email: [dena.champy@eversource.com](mailto:dena.champy@eversource.com)

Attn: Kurt Nelson-Permitting Specialist

Phone: 603-714-3031

Email: [kurt.nelson@eversource.com](mailto:kurt.nelson@eversource.com)

Attn: Tom Meister

Phone: 339-987-7901

Email: [thomas.meister@eversource.com](mailto:thomas.meister@eversource.com)

Attn: Sam Eames

Phone: 603-915-0073

Email: [samual.eames@eversource.com](mailto:samual.eames@eversource.com)

### EVERSOURCE COMPLIANCE

Attn: Matt Cardin

Phone: 603-988-6635

Email: [matthew.cardin@eversource.com](mailto:matthew.cardin@eversource.com)

### FIELD SERVICES SAFETY MANAGER

#### Transmission ROW

Attn: Joshua Scott

Phone: 603-848-7759

Email: [joshua.scott@eversource.com](mailto:joshua.scott@eversource.com)

### ENVIRONMENTAL CONSULTANT

#### GZA GeoEnvironmental, Inc.

Attn: Deborah Zarta Gier

Phone: 603-380-5024

Email: [Deborah.zartagier@gza.com](mailto:Deborah.zartagier@gza.com)

Attn: Rebecca Cox

Phone: 603-315-7520

Email: [rebecca.cox@gza.com](mailto:rebecca.cox@gza.com)

Attn: Lucas Turcotte

Phone: 603-380-5017

Email: [lucas.turcotte@gza.com](mailto:lucas.turcotte@gza.com)

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

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

**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)

**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:

**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: 6.5

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: 7.8

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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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: **8/13/2020** Time: **0930** <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): 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: **8/13/20** Time: **0925**

Notes:

## PROJECT TEAM

### PROJECT OWNER

Eversource

Attn: Dena Champy-Project Manager

Phone: 508-954-2736

Email: [dena.champy@eversource.com](mailto:dena.champy@eversource.com)

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Email: [kurt.nelson@eversource.com](mailto:kurt.nelson@eversource.com)

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Phone: 339-987-7901

Email: [thomas.meister@eversource.com](mailto:thomas.meister@eversource.com)

Attn: Sam Eames

Phone: 603-915-0073

Email: [samual.eames@eversource.com](mailto:samual.eames@eversource.com)

### EVERSOURCE COMPLIANCE

Attn: Matt Cardin

Phone: 603-988-6635

Email: [matthew.cardin@eversource.com](mailto:matthew.cardin@eversource.com)

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Attn: Joshua Scott

Phone: 603-848-7759

Email: [joshua.scott@eversource.com](mailto:joshua.scott@eversource.com)

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GZA GeoEnvironmental, Inc.

Attn: Deborah Zarta Gier

Phone: 603-380-5024

Email: [Deborah.zartagier@gza.com](mailto:Deborah.zartagier@gza.com)

Attn: Rebecca Cox

Phone: 603-315-7520

Email: [rebecca.cox@gza.com](mailto:rebecca.cox@gza.com)

Attn: Lucas Turcotte

Phone: 603-380-5017

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

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

**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)

**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:

**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: 7.5

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