

DRAINAGE MONITORING REPORT

GEOTECHNICAL | ENVIRONMENTAL | ECOLOGICAL | WATER | CONSTRUCTION MANAGEMENT Known for excellence. Built on trust.

TYPE OF INSPECTION: □ Daily □ Weekly ⊠ Storm Event ⁺ □ Reduced Frequency ⁺⁺ □ Other:
Date: 12/13/2020 Time: 1120 ⁺ 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
+Storm event info (approx): Intermittent light rain beginning afternoon of 12/12 and continuing to early morning of 12/13
Amount of rainfall (inches): 0.49
++Reason for Reduced Frequency (<i>i.e., Monthly due to dry conditions</i>):
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 12/12

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

pH Meter Information (make/model): Hanna HI98107

Calibration Method: 2 Point Date: **12/13/20** Time: **1115** Notes:

PROJECT TEAM

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Eversource Transmission Line:

F107 - Seacoast Reliability Project

Location:

Newington, New Hampshire

GZA Project No: 04.0190967.00

CURRENT/RECENT SITE WORK ACTIVITIES / NOTES

None

PHOTOGRAPHS



29 Gundalow -1 (Drainage Area)



64 Gundalow - 1 (Drainage Course)



4 Brickyard Circle – 1 (Drainage Course)



29 Gundalow - 2 (Culvert)



64 Gundalow – 2 (Drainage Course)

DRAINAGE AREA MONITORING
Location: 29 Gundalow – 1 (Drainage Area) Status of surface water at the time of inspection? □ Dry ⊠ Standing □ Flowing
pH: 6.3 Observations/Notes: Intermittent areas of standing water in grass, max depth approx. 1"
Location: 29 Gundalow – 2 (Culvert) Status of surface water at the time of inspection? □ Dry □ Standing ☑ Flowing pH: 11.8
Observations/Notes: Water extending approx. 18" beyond culvert inlet into stone area, approx. max depth 4". Flow visible through culvert.
Location: 64 Gundalow – 1 (Drainage Course) Status of surface water at the time of inspection? □ Dry □ Standing ☑ Flowing pH: 11.5
Observations/Notes: Accessible flowing water extending approx. 16" from culvert outlet, approx. 2" deep.
Location: 64 Gundalow – 2 (Drainage Course) Status of surface water at the time of inspection? □ Dry □ Standing ☑ Flowing pH: 9.3
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: 8.3
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: Not Monitored Observations/Notes: Dry
Location: 4 Brickyard Circle – 3 (Drainage Course) Status of surface water at the time of inspection? Dry Standing Flowing pH: Not Monitored Observations/Notes:
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: Observations/Notes:

Location: Knight's Brook – 2 (Downstream in Brook)
Status of surface water at the time of inspection?
pH: Not Monitored
Observations/Notes:
Location: Knight's Brook – 3 (Above Duct Bank in Brook)
Status of surface water at the time of inspection?
pH: Not Monitored
Observations/Notes:
Location: Hannah – 1 (Wetland NW-22)
Status of surface water at the time of inspection?
pH: Not Monitored
Observations/Notes:
Location: Hannah – 2 (Wetland NW-24)
Status of surface water at the time of inspection?
pH: Not Monitored
Observations/Notes:
Location: Flynn Pit – 1 (Wetland NW-4)
Status of surface water at the time of inspection?
pH: Not Monitored
Observations/Notes:
Location:
Status of surface water at the time of inspection?
pH:
Observations/Notes:

OTHER COMMENTS AND OBSERVATIONS

• None.



DRAINAGE MONITORING REPORT

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TYPE OF INSPECTION:	□ Daily ⊠ Weekly □ Storm Event ⁺ □ Reduced Frequency ⁺⁺
	Other:
Date: 12/15/2020 Time: 09	30 ⁺ Was this inspection triggered by a 0.25" storm event? \Box Yes \boxtimes No
If yes, how did you determine w Other If other, please des +Storm event info (approx):	hether a 0.25" storm event has occurred? Rain Gauge Weather Station cribe
Amount of rainfall (inches):	
++Reason for Reduced Frequer (<i>i.e., Monthly due to dry condition</i>	,

Inspector name(s) and title(s): Matt Deane, Technical Specialist

Others present/affiliation(s):

Weather conditions (since last inspection): Cloudy with brief light rain on 12/14, no measurable precipitation

Weather conditions (time of inspection): Sunny, Low 30's

pH Meter Information (make/model): Hanna HI98107

Calibration Method: 2 Point Date: **12/15/20** Time: **0925** Notes:

PROJECT TEAM

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Eversource Transmission Line:

F107 - Seacoast Reliability Project

Location:

Newington, New Hampshire

GZA Project No: 04.0190967.00

CURRENT/RECENT SITE WORK ACTIVITIES / NOTES

None

PHOTOGRAPHS



29 Gundalow -1 (Drainage Area)



64 Gundalow - 1 (Drainage Course)



4 Brickyard Circle - 1 (Drainage Course)



29 Gundalow - 2 (Culvert)



64 Gundalow – 2 (Drainage Course)



4 Brickyard Circle – 2 (Drainage Course)

Eversource Energy Seacoast Reliability Project Project #04.0190967.00

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4 Brickyard Circle – 3 (Drainage Course)

DRAINAGE AREA MONITORING
Location: 29 Gundalow – 1 (Drainage Area) Status of surface water at the time of inspection? Image: Dry ima
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.
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. 12" 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: 9.8
Observations/Notes: Standing water extending approx. 18" from culvert inlets, max depth approx. 2".
Location: 4 Brickyard Circle – 1 (Drainage Course) Status of surface water at the time of inspection? □ Dry □ Standing ⊠ Flowing pH: 9.5
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: 7.9
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: 7.6
Observations/Notes: Pooled area in center of raceway, max depth approx. 3".
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?
pH: Not Monitored
Observations/Notes:
Location: Knight's Brook – 3 (Above Duct Bank in Brook)
Status of surface water at the time of inspection?
pH: Not Monitored
Observations/Notes:
Location: Hannah – 1 (Wetland NW-22)
Status of surface water at the time of inspection?
pH: Not Monitored
Observations/Notes:
Location: Hannah – 2 (Wetland NW-24)
Status of surface water at the time of inspection?
pH: Not Monitored
Observations/Notes:
Location: Flynn Pit – 1 (Wetland NW-4)
Status of surface water at the time of inspection?
pH: Not Monitored
Observations/Notes:
Location:
Status of surface water at the time of inspection?
pH:
Observations/Notes:

OTHER	COMMENTS	AND O	BSERVA	TIONS
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• None.



DRAINAGE MONITORING REPORT

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TYPE OF INSPECTION:	Daily Weekly Storm Event ⁺ Reduced Frequency ⁺⁺
	Other:
Date: 12/18/2020 Time: 09	40 ⁺ Was this inspection triggered by a 0.25" storm event? \Box Yes \boxtimes No
If yes, how did you determine w Other If other, please dese +Storm event info (approx):	hether a 0.25" storm event has occurred? Rain Gauge Weather Station cribe
Amount of rainfall (inches):	
++Reason for Reduced Frequer (<i>i.e., Monthly due to dry condition</i>	

Inspector name(s) and title(s): Matt Deane, Technical Specialist

Others present/affiliation(s):

Weather conditions (since last inspection): Variable clouds with snow beginning late on 12/16 and continuing through the day on 12/17

Weather conditions (time of inspection): Cloudy, Mid 20's

pH Meter Information (make/model): Hanna HI98107

Calibration Method: 2 Point Date: **12/18/20** Time: **0935** Notes:

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Newington, New Hampshire

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CURRENT/RECENT SITE WORK ACTIVITIES / NOTES

None

PHOTOGRAPHS



29 Gundalow -1 (Drainage Area)



64 Gundalow - 1 (Drainage Course)



4 Brickyard Circle – 1 (Drainage Course)



29 Gundalow - 2 (Culvert)



64 Gundalow – 2 (Drainage Course)



4 Brickyard Circle – 2 (Drainage Course)

Eversource Energy Seacoast Reliability Project Project #04.0190967.00

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4 Brickyard Circle – 3 (Drainage Course)

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DRAINAGE AREA MONITORING
Location: 29 Gundalow – 1 (Drainage Area) Status of surface water at the time of inspection? Image: Dry ima
Observations/Notes:
Location: 29 Gundalow – 2 (Culvert)
Status of surface water at the time of inspection? Dry Standing Flowing pH: 12.6
Observations/Notes: Water extending approx. 12" beyond culvert inlet into stone area, approx. max depth 4". Flow visible through culvert.
Location: 64 Gundalow – 1 (Drainage Course)
Status of surface water at the time of inspection? Dry Standing Flowing
pH: ** 12.3
Observations/Notes: **Standing water in drainage course covered by snow/ice - pH measurement taken from standing water just inside culvert. Standing water approx. 1" deep.
Location: 64 Gundalow – 2 (Drainage Course)
Status of surface water at the time of inspection? Dry Standing Flowing
pH: ** 10.0
Observations/Notes: **Standing water in drainage course covered by snow/ice - pH measurement taken from standing water just inside culvert. Standing water approx. 1" deep.
Location: 4 Brickyard Circle – 1 (Drainage Course)
Status of surface water at the time of inspection? Dry Standing Flowing
pH: 9.3
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 Standing
рН: 7.6
Observations/Notes: Small area of accessible standing water adjacent to east wall of raceway, approx. 2" 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: Snow manually removed to access flowing water. Waited until flow resumed to take pH measurement.
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?
pH: Not Monitored
Observations/Notes:
Location: Knight's Brook – 3 (Above Duct Bank in Brook)
Status of surface water at the time of inspection?
pH: Not Monitored
Observations/Notes:
Location: Hannah – 1 (Wetland NW-22)
Status of surface water at the time of inspection?
pH: Not Monitored
Observations/Notes:
Location: Hannah – 2 (Wetland NW-24)
Status of surface water at the time of inspection?
pH: Not Monitored
Observations/Notes:
Location: Flynn Pit – 1 (Wetland NW-4)
Status of surface water at the time of inspection?
pH: Not Monitored
Observations/Notes:
Location:
Status of surface water at the time of inspection?
pH:
Observations/Notes:

OTHER COMMENTS AND OBSERVATIONS

• Heavy snow cover over 29 Gundalow – 1, 64 Brickyard – 1, 64 Brickyard – 2, and 4 Brickyard – 3.