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FTB Monitoring Plan Seacoast Reliability Project June 2020

INTRODUCTION

The Seacoast Reliability Project consists of 12.9 miles for the new F107 115-kV transmission overhead, underground and underwater segments through the towns of Madbury, Durham, Newington and the city of Portsmouth and upgrade terminals at Madbury and Portsmouth substations. The underground portions of the line were installed in the shallow subsurface (ranging on average from 2.5 to 10 feet to the top of the duct bank) within a concrete duct bank backfilled with fluidized thermal backfill (FTB), flowable fill (for thermal protection) and soils from the original excavation.

It was recently identified that drainage changes in the shallow subsurface were occurring in two locations along the alignment of the underground installation and appeared related to the construction of the Seacoast Reliability Project (“Project”). These locations are:

- 29 Gundalow Landing, Newington
- Waterworks Road Area, UNH, Durham

Since it came to our attention, Eversource and its consultants have been assessing the underground portions of the Project in relation to these observed changes in drainage. At both locations it appears that the transmission line duct bank and flowable fill (aggregate and concrete mix) has altered drainage patterns of shallow groundwater, which appears to have caused groundwater to seep to the ground surface. In addition, it appears that there has been some leaching of calcium carbonate from the flowable fill at these locations. Where calcium carbonate deposits were observed in pooled stormwater, elevated pH measurements were observed in the pooled stormwater.

The purpose of this Monitoring Plan is to address the request of the New Hampshire Department of Environmental Services (NHDES) for information regarding on-going and planned continued monitoring of the drainage and pH at the above locations and assess the potential for impacts at other areas along the underground portions of the project.

BACKGROUND INFORMATION AND SUMMARY OF WORK COMPLETED

Consistent with previous communications with NHDES, Eversource has reviewed conditions at sites in Newington and Durham and taken short term actions to make observations, collect pH data, improve drainage, and generally gain a better



understanding of the extent of the issues. A summary of data collected, and work completed to date is provided below.

29 GUNDALOW LANDING, NEWINGTON

Changes to the drainage patterns and a white precipitate accumulated over time on the sod in an approximately 10 x 20 ft area above the cable duct bank (which is also in the vicinity of a stormwater culvert) have been observed. The top of the flowable fill in this area is generally 0.5 to 1 foot below the ground surface.

Eversource sampled the precipitate and confirmed it to be primarily Calcium Carbonate (CaCO_3), indicating it likely is a result of shallow subsurface flows encountering the duct bank and flowable fill, then pooling at the surface where precipitate is forming on the sod. Eversource has removed the precipitate from the ground surface and we are monitoring the area.

To assess water quality in the vicinity of the seepage, we sampled and have continued to monitor pH at this location with a hand-held meter. According to our investigation, the seepage that pooled in this area had an elevated pH. We also have been monitoring standing water at two locations approximately 50' and 100' downstream in the drainage course. Levels of pH have been observed to significantly decline further down the drainage course (average of 6.6 approximately 100' downstream). As a result of our investigation, we have determined that there is no continuous flow in the drainage course, and therefore, we are confident that the high pH levels from the seepage are localized and have not impacted groundwater or any surface water.

While this drainage course interfaces with Little Bay approximately 400' downstream, we have not identified releases of water to date with elevated pH to Little Bay or any other surface water.

We have developed a plan to mitigate the seepage and reduce elevated pH levels. Eversource (1) excavated the low permeability soils and flowable fill in the identified area to a depth of 2' below grade, (2) installed permeable sand and gravel layer in place of the flowable fill; and (3) constructed a subdrain to improve drainage. These activities were completed on May 26, 2020. We anticipate that removing a portion of the flowable fill and improving drainage in the area will reduce contact time with the remaining flowable fill, which should improve conditions. We will continue to monitor pH. Due to lack of rain, to date, we have not observed substantial flows through the drainage system.

WATERWORKS ROAD AREA, UNH, DURHAM

UNH recently alerted us that there has been an altered drainage pattern in the vicinity of Waterworks Road and the Gregg's Hall access road. From our investigation, it appears that shallow groundwater has been discharging to the ground surface at the edge of the roadway. The top of the flowable fill in this area is generally 0.5 to 1 foot below the ground surface. In cooperation with UNH, and after receiving approval from the University, Eversource has installed a subdrain to alleviate the seepage that previously occurred in this area. The new subdrain system outlets to a nearby catch basin. Installation of the subdrains were completed on May 20, 2020. To date, it appears that the restoration activities at this site have improved the drainage pattern, as water is flowing to the outlet catch basin and has not appeared to breakout to the surface as it had previously. In addition, we monitored and continue to monitor for pH to confirm that there are no elevated pH discharges entering the stormwater drainage system or to any surface waters in the vicinity.



On a related but separate note, we have identified an area of calcium carbonate precipitate that has entered a nearby cattail wetland in an area to the south of the Greggs Hall access road. Area stormwater from the parking lots and roadways drains to the cattail wetland both by over-surface flow and via a storm drain outlet to the cattail wetland. It appears that due to the installation of the duct bank, calcium carbonate from the flowable fill has leached from soils on the south side of the access road and came into contact with standing water within the stormwater discharge area that is located on the west side of the cattail wetland.

Eversource measured pH in standing water in the wetland and found pH levels ranging from 7.1 on the edge of the cattail wetland to 9.6 within the standing water of the stormwater discharge area. Additionally, on May 18, 2020 a pH reading of 11.7 was observed in a shallow dug hole at the edge of the bank and standing water adjacent to the area where the precipitate was observed on the surface. Eversource removed the visible traces of calcium carbonate precipitate from the ground surface after the standing water evaporated. Since installation of the underdrains on May 20, 2020, no elevated pH levels have been observed in any surface waters in the vicinity. Eversource will continue to monitor this area for pH levels.

PROPOSED MONITORING PLAN

In order to continue to assess the conditions at these sites, Eversource proposes a combination of daily and weekly visual observations of drainage and pH measurements and sampling. Based on field reconnaissance, Eversource has identified monitoring locations that are focused on continuing to assess the known areas of drainage changes and elevated pH, and as a conservative measure we are proposing to expand the assessment to other areas along the underground portions of the project. To date, no visual signs of calcium carbonate precipitate has been observed at any of the expanded monitoring locations.

Specifically, the following schedule for monitoring is proposed:

NEWINGTON MONITORING LOCATIONS

It is anticipated that monitoring will be conducted at the Gundalow Landing seepage area and drainage course for a period of four weeks in order to assess conditions and the effectiveness of the drainage improvements on flow and pH. Pending property owner permission, a visual reconnaissance will be conducted on the downstream drainage course on the 4 Brickyard Circle property and additional monitoring will be conducted at downstream locations on this property should the data require.

For the other areas in Newington where we have identified monitoring locations with surface water above the duct bank and flowable fill (Hannah Lane, Knights Brook, and Flynn Pit), it is anticipated that monitoring for a period of two weeks will be sufficient to determine if similar pH issues are occurring in those locations. The following monitoring will be conducted at the locations in Newington:

Gundalow Landing Area

- Daily visual observation of site conditions; focused on confirming drainage
- Daily hand-held meter measurements for pH during active flow at locations described below in **Table 1**.
- Daily measurements will be conducted at least five (5) days per week (week days)
- Storm event monitoring - during storm events and period following (approximately 1 measurement within 12 hours of storm ending)
- Periods of continuous flow (wet conditions / regular precipitation events) – switch to twice weekly of visual observations and pH measurements



Hannah Lane, Knights Brook, and Flynn Pit

- Twice weekly visual observation of site conditions; focused on confirming drainage
- Twice weekly hand-held meter measurements for pH during active flow at locations described below in Table 1.
- Storm event monitoring - during storm events and period following (approximately 1 measurement within 12 hours of storm ending)

DURHAM MONITORING LOCATIONS

It is anticipated that monitoring will be conducted at the UNH – Waterworks Road area for a period of four weeks in order to assess conditions and the effectiveness of the drainage improvements on flow and pH. For the A Lot / Reservoir Brook area where we have identified two additional monitoring locations, it is anticipated that monitoring for a period of two weeks will be sufficient to determine if similar pH issues are occurring at that locations. It should be noted that these locations are also within an existing Groundwater Management Zone for the former Craig Supply Site and may therefore require additional review and discussions with NHDES to interpret results appropriately. The following monitoring will be conducted at the locations in Durham:

Waterworks Road Area

- Daily observations of site conditions, focused on confirming drainage
- Monitor initial storm events (storms during event to evaluate function of drainage improvements)
- Daily hand-held meter measurements for pH during active flow at locations described below in Table 1.
- Storm event monitoring - during storm events and period following (approximately 1 measurement within 12 hours of storm ending)
- Periods of continuous flow (wet conditions / regular precipitation events) – switch to twice weekly of visual observations and pH measurements

A Lot and Reservoir Brook

- Twice weekly observations of site conditions, focused on confirming drainage
- Twice weekly hand-held meter measurements for pH during active flow at locations described below in Table 1.
- Storm event monitoring - during storm events and period following (approximately 1 measurement within 12 hours of storm ending)

A detailed description of each monitoring location as well as the rationale for the selection of the location is presented below in **Table 1**. Refer to **Monitoring Location Plan 1 through 3** for monitoring locations presented on aerial photographs.



TABLE 1 – MONITORING LOCATIONS

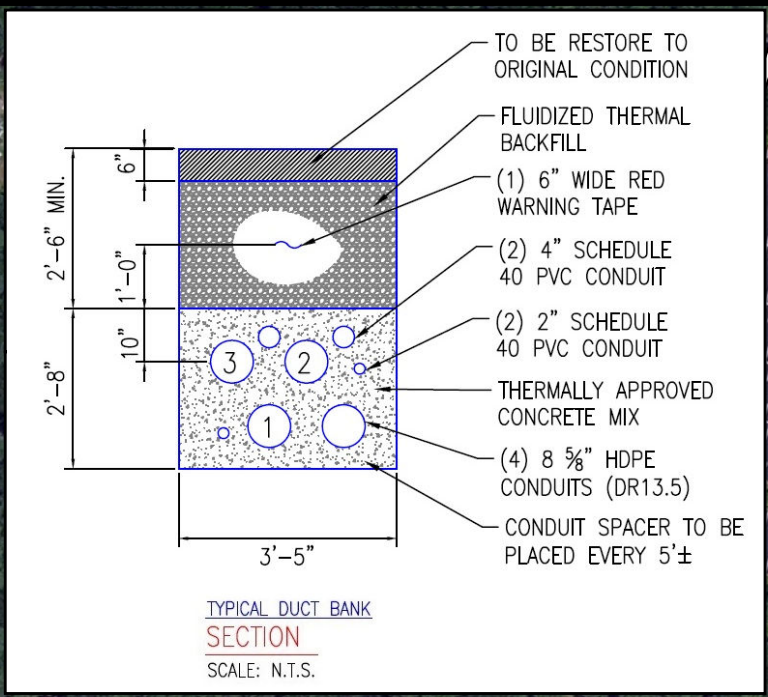
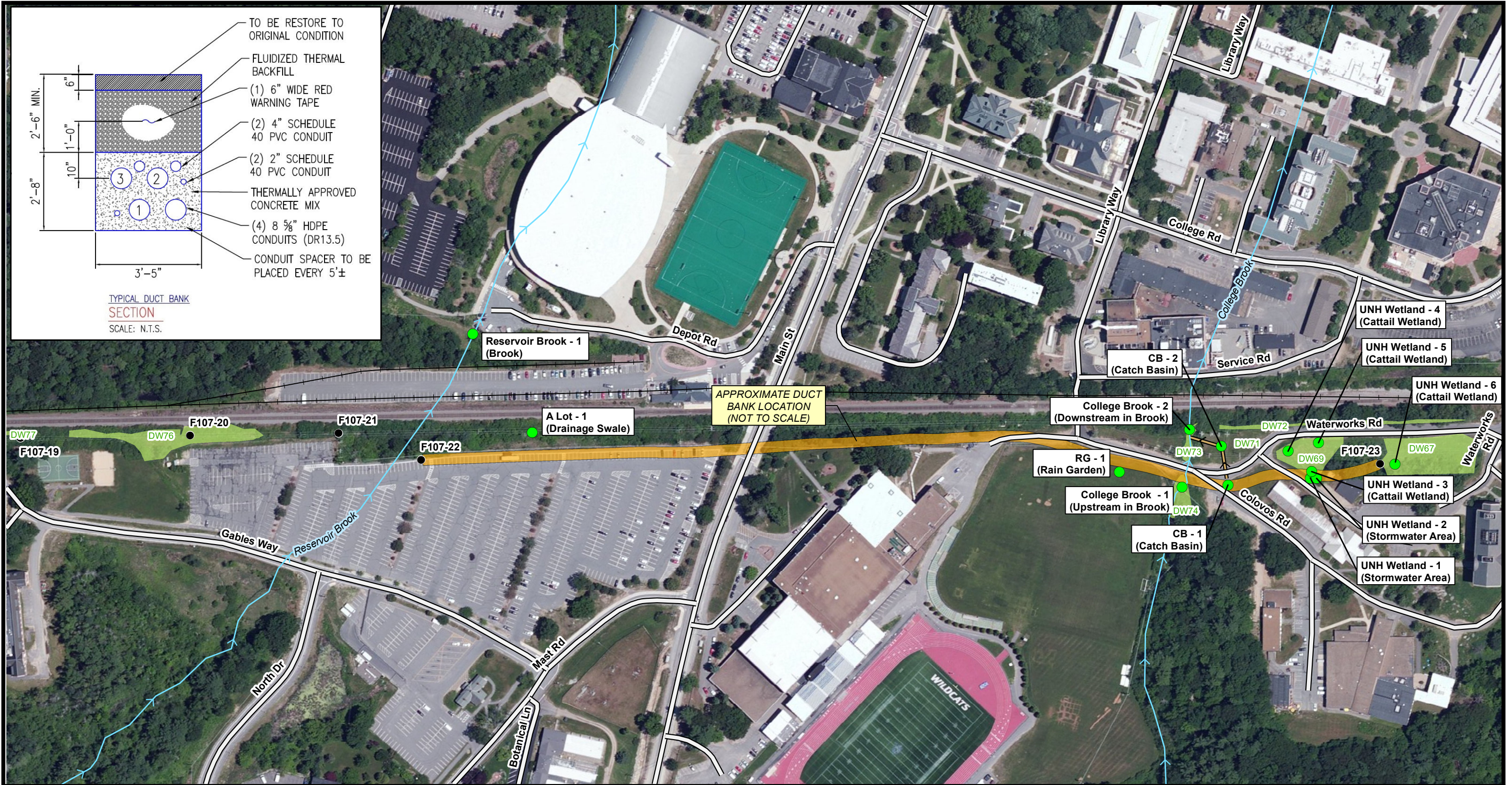
Location Designation	Monitoring Location Description	Sample Location Rationale
29 Gundalow -1 (Drainage Area)	Drainage area near F107 duct bank at southwest corner of 29 Gundalow property.	Information from this location will be used to assess the pH influence immediately adjacent to the F107 duct bank in Gundalow Landing.
29 Gundalow - 2 (Culvert)	Culvert immediately downgradient from the F107 duct bank that relays stormwater from the 29 Gundalow property under Gundalow Landing to the drainage course on the 64 Gundalow Landing property.	Information from this location will indicate the pH level in the stormwater leaving the 29 Gundalow property through the culvert and drainage course to Little Bay.
64 Gundalow – 1 (Drainage Course)	Immediately after the outlet for culvert that passes under Gundalow Landing, on the 64 Gundalow property.	Information from this location will be used to monitor the stormwater traveling through the drainage course to Little Bay.
64 Gundalow -2 (Drainage Course)	Immediately before the inlet to the culvert that passes under Brickyard Circle, on the 64 Gundalow Landing property.	Information from this location will be used to monitor the stormwater traveling through the drainage course to Little Bay.
4 Brickyard – 1 (Drainage Course)	Immediately after the outlet for the culvert that passes under Brickyard Circle, on the 4 Brickyard Circle property; approximately 400 feet from outlet to Little Bay.	Information from this location will be used to monitor the stormwater traveling through the drainage course toward Little Bay.
Knights Brook - 1 (Upstream in Brook)	Upstream of F107 duct bank in Knights Brook.	Information from this location will be used to monitor background conditions in Knights Brook.
Knights Brook – 2 (Downstream in Brook)	Downstream of F107 duct bank in Knights Brook.	Information from this location will be used to assess Knights Brook downstream of the F107 duct bank.
Knights Brook 3 (Above Duct Bank in Brook)	Within Knights Brook where F107 where the stream flow above the duct bank.	Information from this location will be used to assess Knights Brook in closest proximity to the F107 duct bank.
Hannah -1 (Wetland NW-22)	Wetland area located along F107 duct bank near Hannah Lane.	Location selected to monitor due to proximity to the F107 duct bank.
Hannah – 2 (Wetland NW-24)	Wetland area located east of the F107 duct bank near Hannah Lane.	Location selected to monitor due to proximity to the F107 duct bank.
Flynn Pit - 1 (Wetland NW-4)	Wetland located on the southeast side of the duct bank on the Flynn Pit property.	Location selected to monitor due to proximity to the F107 duct bank.
UNH Wetland - 1 (Stormwater Area)	Drainage area immediately adjacent to cattail wetland and F107 duct bank	Area where stormwater observed daylighting from slope and calcium carbonate deposits observed.
UNH Wetland – 2 (Stormwater Area)	Center of drainage area pool immediately adjacent to cattail wetland.	Stormwater area that pools prior to flowing into cattail wetland.



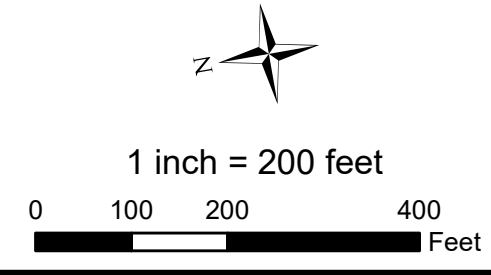
UNH Wetland - 3 (Cattail Wetland)	Cattail wetland immediately adjacent to where calcium carbonate deposits were observed.	Area of wetland that is closest to F107 duct bank and area where calcium deposits were observed. Area of cattail wetland closest to the duct bank and stormwater area.
UNH Wetland - 4 (Cattail Wetland)	Northeastern area of cattail wetland.	Background monitoring location for cattail wetland.
UNH Wetland - 5 (Cattail Wetland)	Southeastern area of cattail wetland.	Background monitoring location for cattail wetland.
UNH Wetland - 6 (Cattail Wetland)	Cattail wetland near Structure 23.	Background monitoring location for cattail wetland.
College Brook – 1 (Upstream in Brook)	College Brook upstream of F107 duct bank.	This location will provide background information for College Brook.
College Brook - 2 (Downstream in Brook)	College Brook downstream of F107 duct bank.	Information from this location will be used to assess influence of F107 duct bank on College Brook.
CB – 1 (Catch Basin)	Catch basin located at the corner of Water Works and Colovos Road.	The new underdrain system outlets to this catch basin which is part of the existing stormwater system that outlets to College Brook.
CB – 2 (Catch Basin)	Catch basin located east of the duct bank in landscaped area.	This catch basin manages both surface water from the area of the F107 duct bank and water from the CB-1 .
RG – 1 (Rain Garden)	Rain Garden located on the west side of Colovos Rd south of the soccer field.	The rain garden is located immediately west of the F107 duct bank.
A Lot – 1 (Drainage Swale)	Drainage swale running along the north side of the F107 duct bank in the UNH A Lot.	Information from this location will be used to monitor Reservoir Brook. (Conditions at this location may also be influenced by the Craig Supply GMZ Site).
Reservoir Brook – 1 (Brook)	Reservoir Brook near end of Depot Road where Reservoir Brook exits the culvert from the A Lot.	Information from this location will be used to monitor Reservoir Brook. (Conditions at this location may also be influenced by the Craig Supply GMZ Site). This location was selected, in part, for accessibility as the inlet to the Brook culvert on the north side of the A Lot cannot be safely accessed.

REPORTING

Visual observations and pH measurements will be reported weekly using the attached Monitoring Reports to provide timely updates on the on-going assessment and data collection. Eversource will plan to submit an update regarding the additional areas that are assessed for a period of two weeks to determine if similar pH issues exist at these locations (i.e. Knights Brook, Hannah Lane, or Flynn Pit in Newington and Reservoir Brook/A-Lot in Durham). After four weeks of monitoring, Eversource will submit a detailed report of our findings for all locations monitored, including a summary table of all pH measurements, along with recommendations for any further assessment of these issues.



- LEGEND**
- SEACOAST RELIABILITY PROJECT ABOVE-GROUND STRUCTURE
 - MONITORING LOCATION
 - NATIONAL HYDROGRAPHY DATASET STREAM
 - RAILROAD
 - DEPARTMENT OF TRANSPORTATION ROADS
 - APPROXIMATE DRAINAGE COURSE LOCATION
 - APPROXIMATE DRAIN PIPE LOCATION
 - APPROXIMATE LOCATION OF DUCT BANK (NOT TO SCALE - SEE TYPICAL DUCT BANK DETAIL)
 - DELINEATED WETLAND



SEACOAST RELIABILITY PROJECT

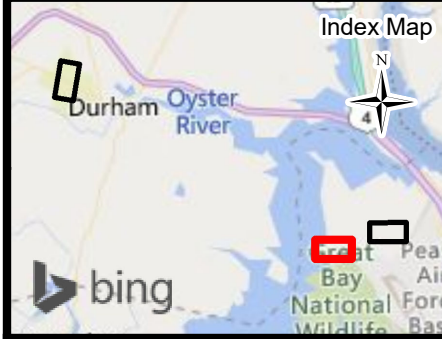
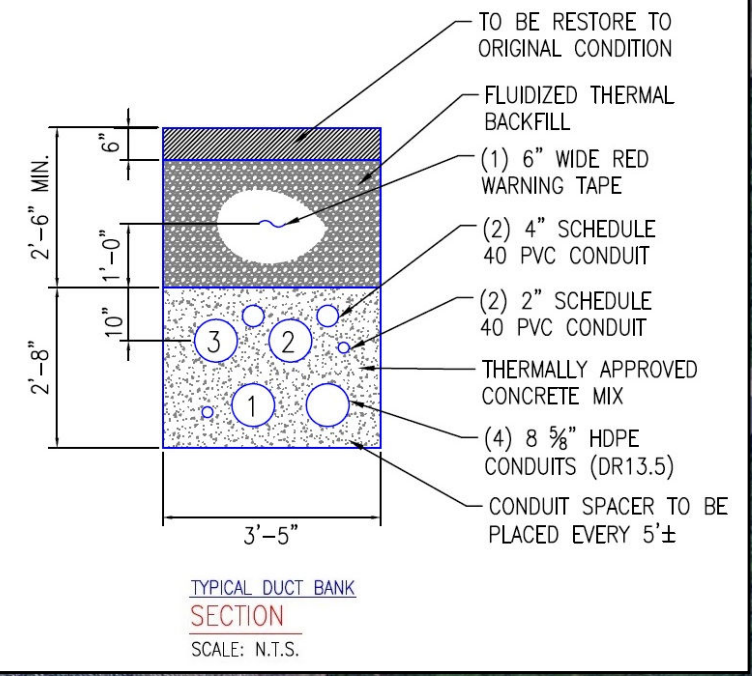
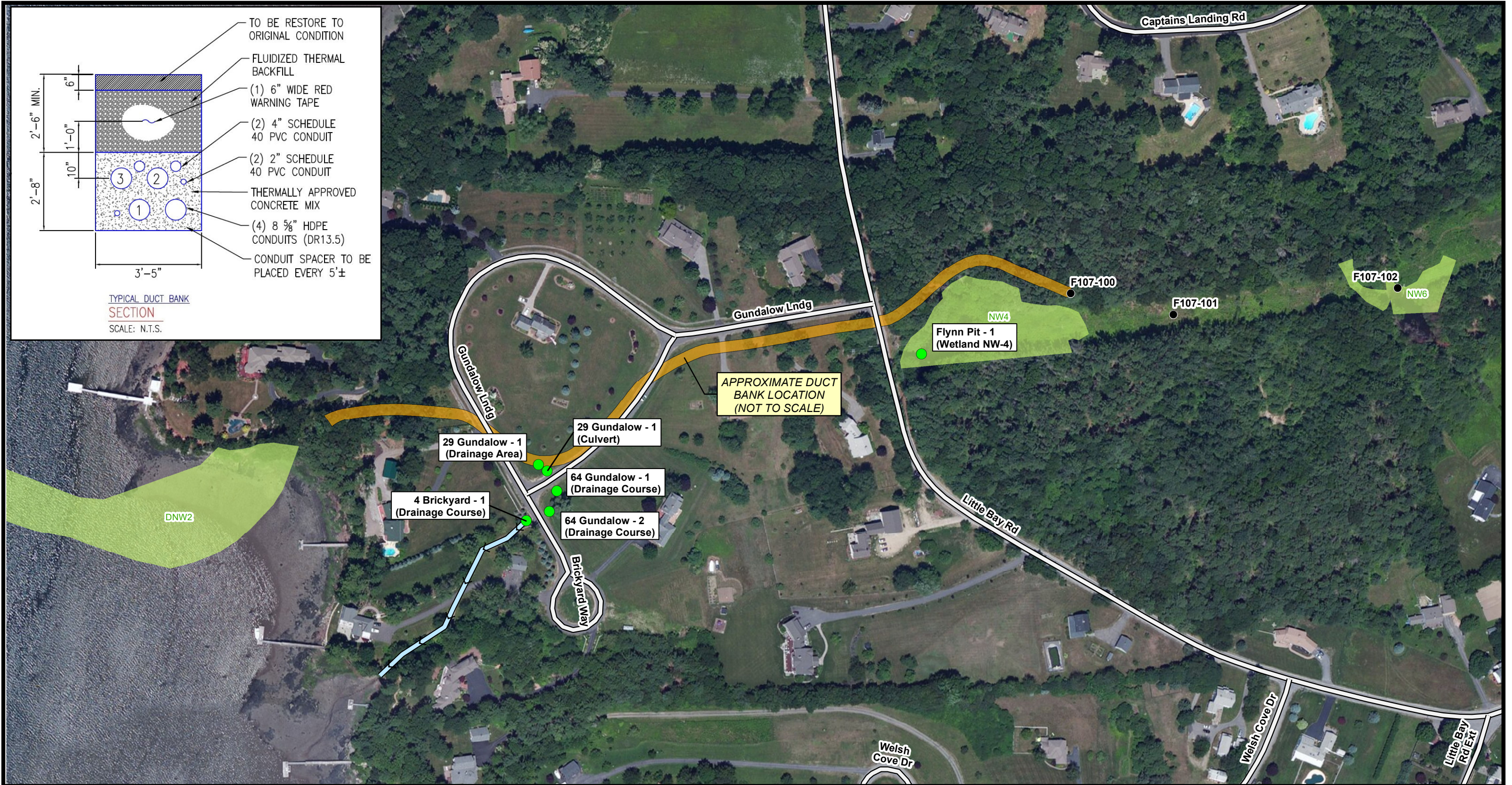
MONITORING LOCATIONS
JUNE 03, 2020

DURHAM & NEWINGTON
NEW HAMPSHIRE
FIGURE 1 OF 3

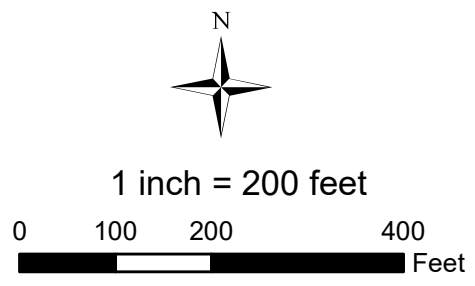
Project No.: 04.0190967.00

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- LEGEND**
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SEACOAST RELIABILITY PROJECT

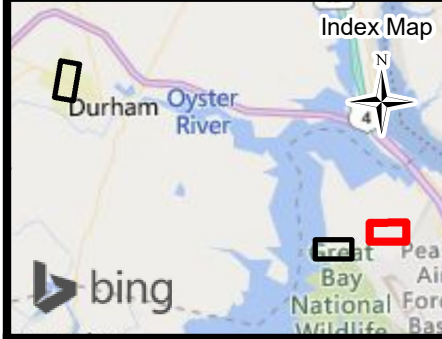
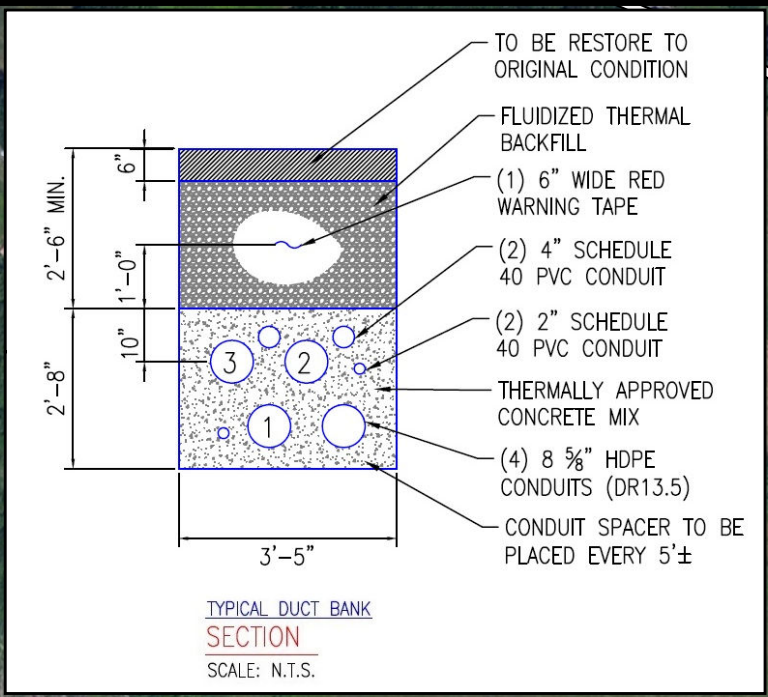
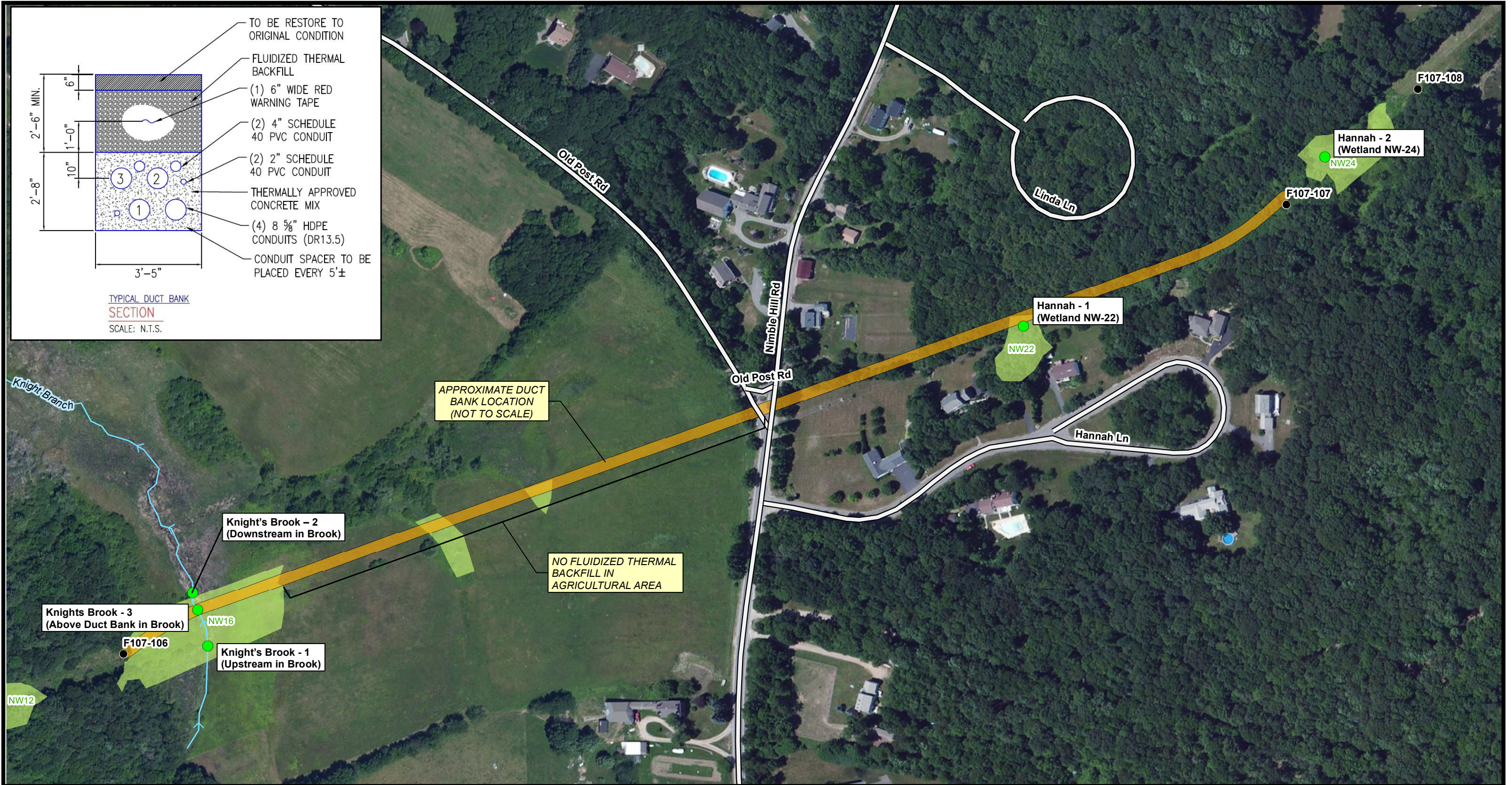
MONITORING LOCATIONS
JUNE 03, 2020

DURHAM & NEWINGTON
NEW HAMPSHIRE
FIGURE 2 OF 3

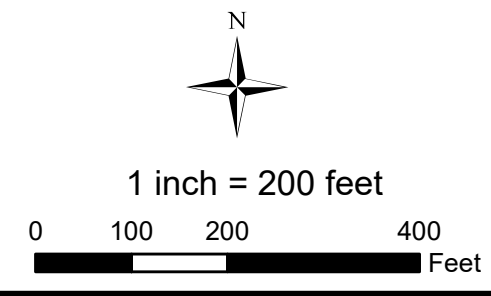
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SEACOAST RELIABILITY PROJECT

MONITORING LOCATIONS
JUNE 03, 2020

DURHAM & NEWINGTON
NEW HAMPSHIRE
FIGURE 3 OF 3

Project No.: 04.0190967.00

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DRAINAGE MONITORING REPORT

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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: _____ Time: _____ ⁺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):

 Others present/affiliation(s):

 Weather conditions (since last inspection):

 Weather conditions (time of inspection):

pH Meter Information (make/model):

 Calibration Method:
 Date: _____ Time: _____
 Notes:

PROJECT TEAM

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CURRENT/RECENT SITE WORK ACTIVITIES / NOTES

-

PHOTOGRAPHS

29 Gundalow -1 (Drainage Area)

29 Gundalow -2 (Culvert)

64 Gundalow – 1 (Drainage Course)

64 Gundalow -2 (Drainage Course)

4 Brickyard – 1 (Drainage Course)

Knight's Brook – 1 (Upstream in Brook)

PHOTOGRAPHS

Knight's Brook – 2 (Downstream in Brook)

Knight's Brook - 3 (Above Duct Bank in Brook)

Hannah – 1 (Wetland NW-22)

Hannah – 2 (Wetland NW-24)

Flynn Pit – 1 (Wetland NW-4)

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PHOTOGRAPHS

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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:

Observations/Notes:

Location: 4 Brickyard Circle – 1 (Drainage Course)

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

pH:

Observations/Notes:

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

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

pH:

Observations/Notes:

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

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

pH:

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:

Observations/Notes:

Location: Hannah – 1 (Wetland NW-22)

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

pH:

Observations/Notes:

Location: Hannah – 2 (Wetland NW-24)

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

pH:

Observations/Notes:

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

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

pH:

Observations/Notes:

Location:

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

pH:

Observations/Notes:

OTHER COMMENTS AND OBSERVATIONS

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DRAINAGE MONITORING REPORT

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Line:

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Durham, New Hampshire

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 Calibration Method:
 Date: _____ Time: _____
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PROJECT TEAM

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CURRENT/RECENT SITE WORK ACTIVITIES / NOTES

-

PHOTOGRAPHS

UNH Wetland -1 (Stormwater Area)

UNH Wetland – 2 (Stormwater Area)

UNH Wetland -3 (Cattail Wetland)

UNH Wetland - 4 (Cattail Wetland)

UNH Wetland - 5 (Cattail Wetland)

UNH Wetland - 6 (Cattail Wetland)

PHOTOGRAPHS

College Brook – 1 (Upstream in Brook)

College Brook - 2 (Downstream in Brook)

CB – 1 (Catch Basin)

CB – 2 (Catch Basin)

RG – 1 (Rain Garden)

A Lot – 1 (Drainage Swale)

Reservoir Brook – 1 (Brook)

blank

DRAINAGE AREA MONITORING

Location: UNH Wetland – 1 (Stormwater Area)

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

pH:

Observations/Notes:

Location: UNH Wetland – 2 (Stormwater Area)

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

pH:

Observations/Notes:

Location: UNH Wetland – 3 (Cattail Wetland)

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

pH:

Observations/Notes:

Location: UNH Wetland – 4 (Cattail Wetland)

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

pH:

Observations/Notes:

Location: UNH Wetland – 5 (Cattail Wetland)

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

pH:

Observations/Notes:

Location: UNH Wetland – 6 (Cattail Wetland)

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

pH:

Observations/Notes:

Location: College Brook – 1 (Upstream in Brook)

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

pH:

Observations/Notes:

Location: College Brook – 2 (Downstream in Brook)

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

pH:

Observations/Notes:

Location: CB – 1 (Catch Basin)

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

pH:

Observations/Notes:

Location: CB – 2 (Catch Basin)

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

pH:

Observations/Notes:

Location: RG – 1 (Rain Garden)

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

pH:

Observations/Notes:

Location: A Lot – 1 (Drainage Swale)

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

pH:

Observations/Notes:

Location: Reservoir Brook – 1 (Brook)

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

pH:

Observations/Notes:

Location:

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

pH:

Observations/Notes:

OTHER COMMENTS AND OBSERVATIONS

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