

Vermont Gas Systems Addison Natural Gas Project  
Road Crossing Observation Report

Prepared on behalf of:



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Prepared by:



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*\*Natural Gas Pipeline Stationing for the Vermont Gas Systems Addison Natural Gas Project is abbreviated in this report. For example, Natural Gas Pipeline Station 755+95 is denoted as "STA 755+95". See Public Utility Commission Docket 7970 for more information.*



## SITE

**Location:** Lincoln Road (STA 755+95)

**Road Surface:** Gravel

**Road Characteristics:** Crowned with no swales or ditching.

**Public/Private Road:** Public Road

## INSPECTION SUMMARY

**Date:** August 2020

**Weather:** Sunny, 80°F

### **Observations:**

- No visible evidence of poor roadbed performance, erosion or settlement of road above gas line.

### **Recommendations:**

- None.

### **Photos:**







## SITE

**Location:** Lincoln Road (STA 755+95)

**Road Surface:** Gravel

**Road Characteristics:** Crowned with no swales or ditching.

**Public/Private Road:** Public Road

## INSPECTION SUMMARY

**Date:** February 2021

**Weather:** Overcast, recent snow, 20°F

### **Observations:**

- No visible evidence of poor roadbed performance, erosion or settlement of road above gas line.
- Road was plowed with small layer of snow on top.
- No heaving evident.

### **Recommendations:**

- Revisit the site in the spring, after the final freeze-thaw cycle of the season.

### **Photos:**







# BREEZY VALLEY LANE (STA 788+10)

## SITE

**Location:** Breezy Valley Lane (STA 788+10)

**Road Surface:** Gravel

**Road Characteristics:** No swales or ditching.

**Public/Private Road:** Private Road

## INSPECTION SUMMARY

**Date:** August 2020

**Weather:** Sunny, 80°F

### **Observations:**

- No visible evidence of poor roadbed performance, erosion or settlement of road above gas line.

### **Recommendations:**

- None.

### **Photos:**







## SITE

**Location:** Breezy Valley Lane (STA 788+10)

**Road Surface:** Gravel

**Road Characteristics:** No swales or ditching.

**Public/Private Road:** Private Road

## INSPECTION SUMMARY

**Date:** February 2021

**Weather:** Overcast, recent snow, 20°F

### **Observations:**

- No visible evidence of poor roadbed performance, erosion or settlement of road above gas line.
- Road was plowed with small layer of snow on top.
- No heaving evident.

### **Recommendations:**

- Revisit the site in the spring, after the final freeze-thaw cycle of the season.

### **Photos:**







## SITE

**Location:** Hickory Place (STA 947+95)

**Road Surface:** Gravel

**Road Characteristics:** Road slopes to the north. No swales or ditching.

**Public/Private Road:** Private Road

## INSPECTION SUMMARY

**Date:** August 2020

**Weather:** Sunny, 80°F

### **Observations:**

- 1"-2" of settlement in road above gas line.
- Settlement appeared to cause stormwater to channel and create erosion along the north side of the road.

### **Recommendations:**

- See February 2021 recommendations.

### **Photos:**







Photos continued:







## SITE

**Location:** Hickory Place (STA 947+95)

**Road Surface:** Gravel

**Road Characteristics:** Road slopes to the north. No swales or ditching.

**Public/Private Road:** Private Road

## INSPECTION SUMMARY

**Date:** February 2021

**Weather:** Overcast, recent snow, 20°F

### **Observations:**

- No visible evidence of erosion or settlement of road above gas line or along the shoulder.
- Road was plowed with small layer of snow on top.
- No heaving evident.

### **Recommendations:**

- Monitor during spring thaw, after final freeze-thaw cycle of the season, and during summer 2021 to see if settlement returns.

### **Photos:**





## SITE

**Location:** Charlotte Road (STA 1048+25)

**Road Surface:** Paved

**Road Characteristics:** Elevated paved road.

**Public/Private Road:** Public Road

## INSPECTION SUMMARY

**Date:** August 2020

**Weather:** Sunny, 80°F

### **Observations:**

- Paved road.
- No visible evidence of pavement degradation, erosion, or settlement of road above gas line.

### **Recommendations:**

- None.

### **Photos:**







## SITE

**Location:** Charlotte Road (STA 1048+25)

**Road Surface:** Paved

**Road Characteristics:** Elevated paved road.

**Public/Private Road:** Public Road

## INSPECTION SUMMARY

**Date:** February 2021

**Weather:** Overcast, recent snow, 20°F

### **Observations:**

- Paved road.
- No visible evidence of pavement degradation, erosion, or settlement of road above gas line.

### **Recommendations:**

- Revisit the site in the spring, after the final freeze-thaw cycle of the season.

### **Photos:**







## SITE

**Location:** Baldwin Road (STA 1114+40)

**Road Surface:** Gravel

**Road Characteristics:** Crowned with shallow swale on east edge of road.

**Public/Private Road:** Public Road

## INSPECTION SUMMARY

**Date:** August 2020

**Weather:** Sunny, 80°F

### **Observations:**

- No visible evidence of poor roadbed performance, erosion, or settlement of road above gas line.

### **Recommendations:**

- None.

### **Photos:**







## SITE

**Location:** Baldwin Road (STA 1114+40)

**Road Surface:** Gravel

**Road Characteristics:** Crowned with shallow swale on east edge of road.

**Public/Private Road:** Public Road

## INSPECTION SUMMARY

**Date:** February 2021

**Weather:** Overcast, recent snow, 20°F

### **Observations:**

- No visible evidence of poor roadbed performance, erosion, or settlement of road above gas line.

### **Recommendations:**

- Revisit the site in the spring, after the final freeze-thaw cycle of the season.

### **Photos:**







## SITE

**Location:** Rotax Road (STA 1293+85)

**Road Surface:** Gravel

**Road Characteristics:** Swale on north edge of road.

**Public/Private Road:** Public Road

## INSPECTION SUMMARY

**Date:** August 2020

**Weather:** Sunny, 80°F

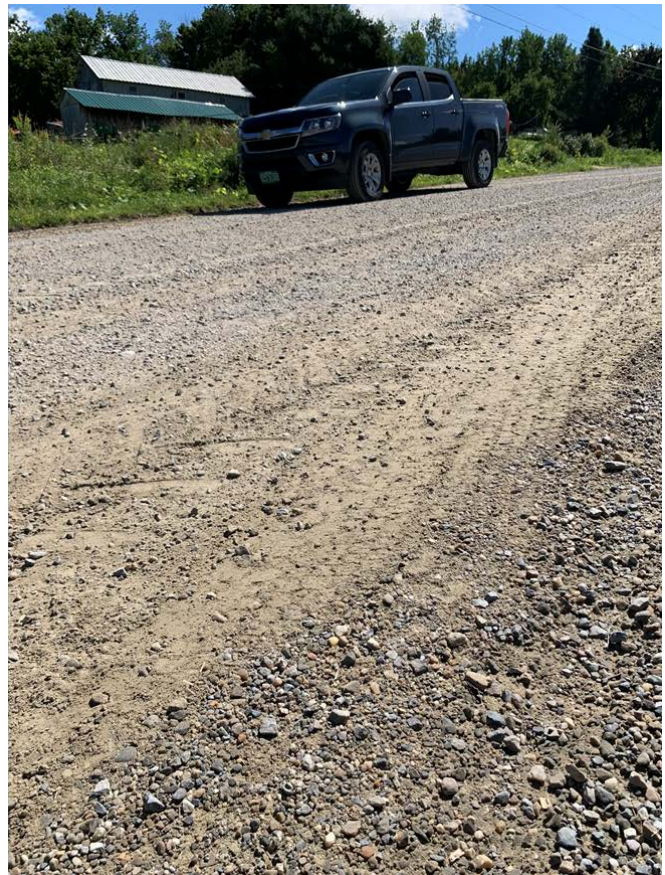
### **Observations:**

- No visible evidence of poor roadbed performance, erosion, or settlement of road above gas line.

### **Recommendations:**

- None.

### **Photos:**







## SITE

**Location:** Rotax Road (STA 1293+85)

**Road Surface:** Gravel

**Road Characteristics:** Swale on north edge of road.

**Public/Private Road:** Public Road

## INSPECTION SUMMARY

**Date:** February 2021

**Weather:** Overcast, recent snow, 20°F

### **Observations:**

- No visible evidence of poor roadbed performance, erosion, or settlement of road above gas line.
- Road was plowed with small layer of snow on top.
- No heaving evident.

### **Recommendations:**

- Revisit the site in the spring, after the final freeze-thaw cycle of the season.

### **Photos:**





## SITE

**Location:** Stillson Road/Cedar Lane (STA 1379+10)

**Road Surface:** Gravel

**Road Characteristics:** Elevated gravel road.

**Public/Private Road:** Private Road

## INSPECTION SUMMARY

**Date:** August 2020

**Weather:** Sunny, 80°F

### **Observations:**

- No visible evidence of poor roadbed performance, erosion, or settlement of road above gas line.

### **Recommendations:**

- None.

### **Photos:**







## SITE

**Location:** Stillson Road/Cedar Lane (STA 1379+10)

**Road Surface:** Gravel

**Road Characteristics:** Elevated gravel road.

**Public/Private Road:** Private Road

## INSPECTION SUMMARY

**Date:** February 2021

**Weather:** Sunny, recent snow, 30°F

### **Observations:**

- No visible evidence of poor roadbed performance, erosion, or settlement of road above gas line.
- Road was plowed with small layer of snow on top.
- No heaving evident.

### **Recommendations:**

- Revisit the site in the spring, after the final freeze-thaw cycle of the season.

### **Photos:**





## SITE

**Location:** Post Road (STA 1424+25)

**Road Surface:** Gravel

**Road Characteristics:** Swale on both sides of road, steep slope to west.

**Public/Private Road:** Private Road

## INSPECTION SUMMARY

**Date:** August 2020

**Weather:** Sunny, 80°F

### **Observations:**

- Washout in middle of road. The washout does not appear to be caused by settlement from gas line installation, but rather from the lack of proper road surface grading.

### **Recommendations:**

- Roadway should be regraded by Owner to force runoff to drain to one, or both, of the roadside swales.

### **Photos:**







## SITE

**Location:** Post Road (STA 1424+25)

**Road Surface:** Gravel

**Road Characteristics:** Swale on both sides of road, steep slope to west.

**Public/Private Road:** Private Road

## INSPECTION SUMMARY

**Date:** February 2021

**Weather:** Overcast, recent snow, 20°F

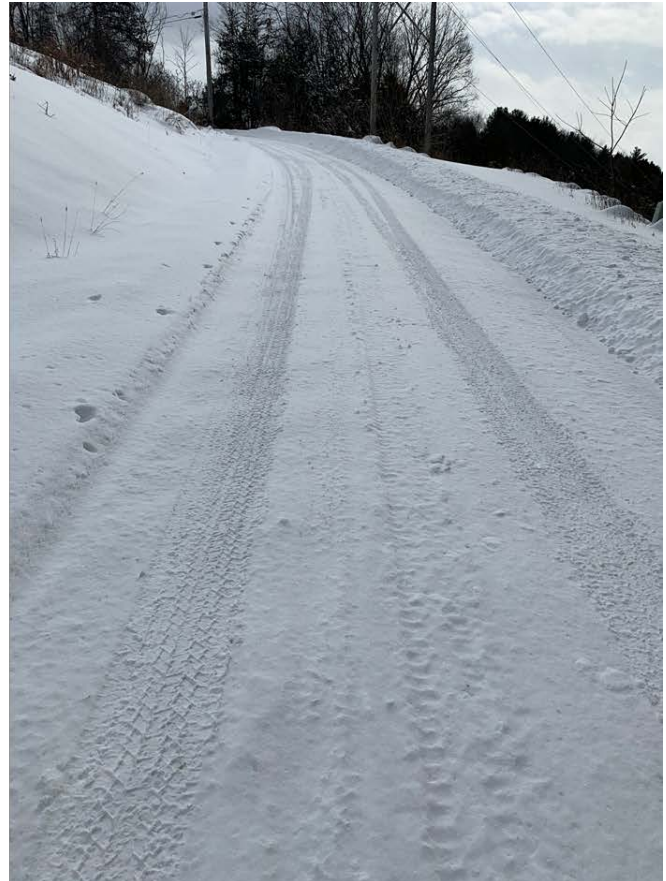
### **Observations:**

- No visible evidence of erosion or settlement of road above gas line.
- Road was plowed with small layer of snow on top.
- No heaving evident.

### **Recommendations:**

- Revisit the site in the spring, after the final freeze-thaw cycle of the season.

### **Photos:**







## SITE

**Location:** Old Stage Road (STA 1547+60)

**Road Surface:** Gravel

**Road Characteristics:** Crowned road with shallow swale on both sides.

**Public/Private Road:** Public Road

## INSPECTION SUMMARY

**Date:** August 2020

**Weather:** Sunny, 80°F

### **Observations:**

- No visible evidence of poor roadbed performance, erosion, or settlement of road above gas line.

### **Recommendations:**

- None.

### **Photos:**







## SITE

**Location:** Old Stage Road (STA 1547+60)

**Road Surface:** Gravel

**Road Characteristics:** Crowned road with shallow swale on both sides.

**Public/Private Road:** Public Road

## INSPECTION SUMMARY

**Date:** February 2021

**Weather:** Overcast, recent snow, 20°F

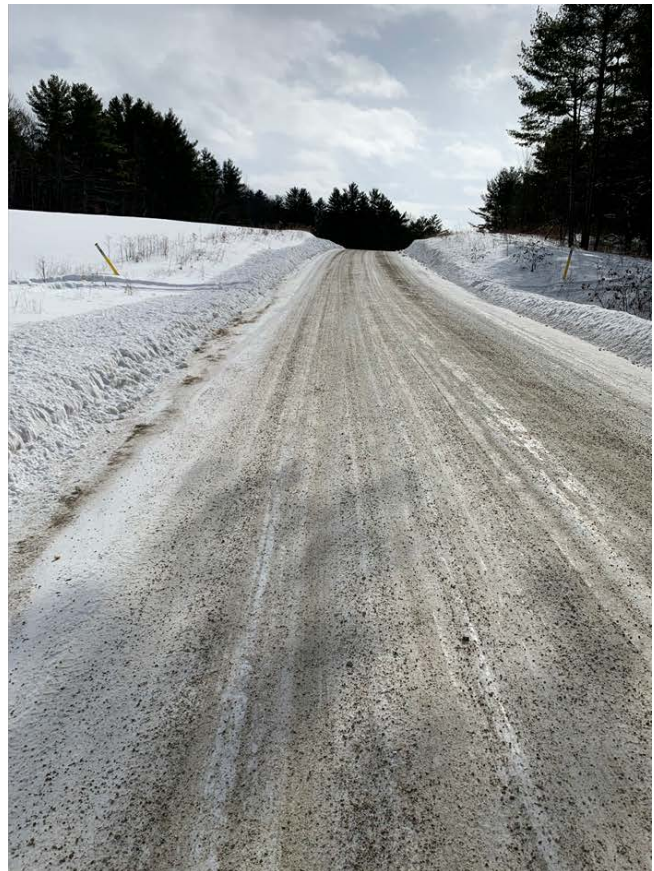
### **Observations:**

- No visible evidence of poor roadbed performance, erosion, or settlement of road above gas line.
- Road was plowed with small layer of snow on top.
- No heaving evident.

### **Recommendations:**

- Revisit the site in the spring, after the final freeze-thaw cycle of the season.

### **Photos:**







## SITE

**Location:** Old Stage Road (STA 1553+55)

**Road Surface:** Gravel

**Road Characteristics:** Swale on both sides of road, steep slope to west.

**Public/Private Road:** Public Road

## INSPECTION SUMMARY

**Date:** August 2020

**Weather:** Sunny, 80°F

### **Observations:**

- Visible erosion in swale on west side of the road before it enters into a small swale. The erosion starts uphill from the crossing and does not appear to be caused by the pipe line installation.

### **Recommendations:**

- Roadway should be regraded by Town to force runoff to drain to one, or both, of the roadside swales.

### **Photos:**







## SITE

**Location:** Old Stage Road (STA 1553+55)

**Road Surface:** Gravel

**Road Characteristics:** Swale on both sides of road, steep slope to west.

**Public/Private Road:** Public Road

## INSPECTION SUMMARY

**Date:** February 2021

**Weather:** Overcast, recent snow, 20°F

### **Observations:**

- No visible evidence of poor roadbed performance, erosion, or settlement of road above gas line
- Road was plowed with small layer of snow on top.
- No heaving evident.

### **Recommendations:**

- Revisit the site in the spring, after the final freeze-thaw cycle of the season.

### **Photos:**







## SITE

**Location:** Old Stage Road (STA 1565+50)

**Road Surface:** Gravel

**Road Characteristics:** Swale on both sides of road.

**Public/Private Road:** Public Road

## INSPECTION SUMMARY

**Date:** August 2020

**Weather:** Sunny, 80°F

### **Observations:**

- No visible evidence of poor roadbed performance, erosion, or settlement of road above gas line.

### **Recommendations:**

- None.

### **Photos:**







## SITE

**Location:** Old Stage Road (STA 1565+50)

**Road Surface:** Gravel

**Road Characteristics:** Swale on both sides of road.

**Public/Private Road:** Public Road

## INSPECTION SUMMARY

**Date:** February 2021

**Weather:** Overcast, recent snow, 20°F

### **Observations:**

- No visible evidence of poor roadbed performance, erosion, or settlement of road above gas line.
- Road was plowed with small layer of snow on top.
- No heaving evident.

### **Recommendations:**

- Revisit the site in the spring, after the final freeze-thaw cycle of the season.

### **Photos:**







# PARKS HURLBURT ROAD (STA 1588+45)

## SITE

**Location:** Parks Hurlburt Road (STA 1588+45)

**Road Surface:** Gravel

**Road Characteristics:** Swale on north side of road. High bank on south side.

**Public/Private Road:** Public Road

## INSPECTION SUMMARY

**Date:** August 2020

**Weather:** Sunny, 80°F

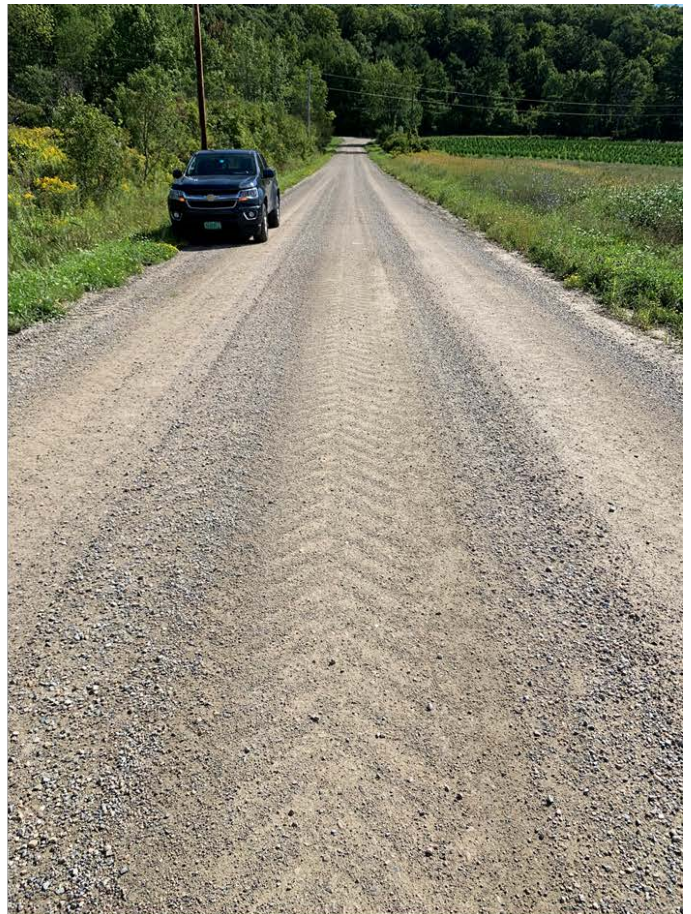
### **Observations:**

- No visible evidence of poor roadbed performance, erosion, or settlement of road above gas line.

### **Recommendations:**

- None.

### **Photos:**







## SITE

**Location:** Parks Hurlburt Road (STA 1588+45)

**Road Surface:** Gravel

**Road Characteristics:** Swale on north side of road. High bank on south side.

**Public/Private Road:** Public Road

## INSPECTION SUMMARY

**Date:** February 2021

**Weather:** Overcast, recent snow, 20°F

### **Observations:**

- No visible evidence of poor roadbed performance, erosion, or settlement of road above gas line.
- Road was plowed with small layer of snow on top.
- No heaving evident.

### **Recommendations:**

- Revisit the site in the spring, after the final freeze-thaw cycle of the season.

### **Photos:**







## SITE

**Location:** Quarry Road (STA 1768+45)

**Road Surface:** Gravel

**Road Characteristics:** Crowned road with no swales or ditching.

**Public/Private Road:** Public Road

## INSPECTION SUMMARY

**Date:** August 2020

**Weather:** Sunny, 80°F

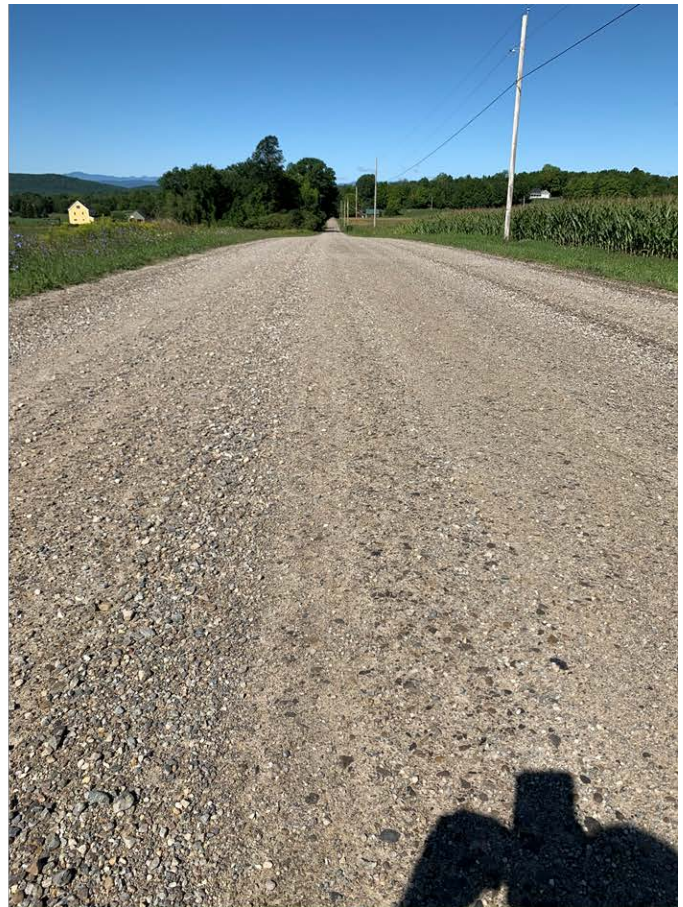
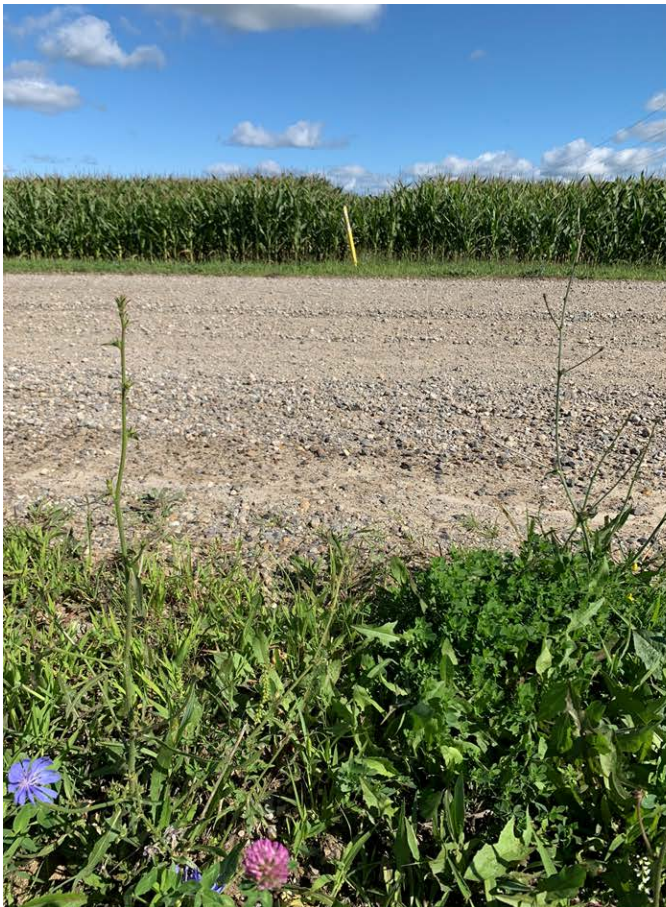
### **Observations:**

- No visible evidence of poor roadbed performance, erosion, or settlement of road above gas line.

### **Recommendations:**

- None.

### **Photos:**







## SITE

**Location:** Quarry Road (STA 1768+45)

**Road Surface:** Gravel

**Road Characteristics:** Crowned road with no swales or ditching.

**Public/Private Road:** Public Road

## INSPECTION SUMMARY

**Date:** February 2021

**Weather:** Overcast, recent snow, 20°F

### **Observations:**

- No visible evidence of poor roadbed performance, erosion, or settlement of road above gas line.
- Road was plowed with small layer of snow on top.
- No heaving evident.

### **Recommendations:**

- Revisit the site in the spring, after the final freeze-thaw cycle of the season.

### **Photos:**







## SITE

**Location:** Hunt Road (STA 2011+60)

**Road Surface:** Gravel

**Road Characteristics:** Crowned road with swales on both sides.

**Public/Private Road:** Public Road

## INSPECTION SUMMARY

**Date:** August 2020

**Weather:** Sunny, 80°F

### **Observations:**

- Small washout located above gas lines at southern edge of road.

### **Recommendations:**

- Line swale with stone.

### **Photos:**







## SITE

**Location:** Hunt Road (STA 2011+60)

**Road Surface:** Gravel

**Road Characteristics:** Crowned road with swales on both sides.

**Public/Private Road:** Public Road

## INSPECTION SUMMARY

**Date:** February 2021

**Weather:** Overcast, recent snow, 20°F

### **Observations:**

- No visible evidence of poor roadbed performance, erosion, or settlement of road above gas line.
- Road was plowed with small layer of snow on top.
- No heaving evident.

### **Recommendations:**

- Line swale with stone.
- Revisit the site in the spring, after the final freeze-thaw cycle of the season.

### **Photos:**







## SITE

**Location:** Belden Falls Road (STA 2129+45)

**Road Surface:** Gravel

**Road Characteristics:** Crowned road with swales on south side of road.

**Public/Private Road:** Public Road

## INSPECTION SUMMARY

**Date:** August 2020

**Weather:** Sunny, 80°F

### **Observations:**

- No visible evidence of poor roadbed performance, erosion, or settlement of road above gas line.

### **Recommendations:**

- None.

### **Photos:**







## SITE

**Location:** Belden Falls Road (STA 2129+45)

**Road Surface:** Gravel

**Road Characteristics:** Crowned road with swales on south side of road.

**Public/Private Road:** Public Road

## INSPECTION SUMMARY

**Date:** February 2021

**Weather:** Overcast, recent snow, 20°F

### **Observations:**

- No visible evidence of poor roadbed performance, erosion, or settlement of road above gas line.
- Road was plowed with small layer of snow on top.
- No heaving evident.

### **Recommendations:**

- None.

### **Photos:**





Vermont Gas Systems Addison Natural Gas Project  
Road Crossing Observation Report

ADDENDUM 1: FINAL OBSERVATIONS

Prepared on behalf of:



Vermont Gas Systems, Inc.

Prepared by:



Seth Goddard, VT P.E. #55582



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June 24<sup>th</sup>, 2021



## ADDENDUM 1

Addendum 1 contains site inspections conducted in June 2021, after final freeze-thaw cycle of the season.

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*\*Natural Gas Pipeline Stationing for the Vermont Gas Systems Addison Natural Gas Project is abbreviated in this report. For example, Natural Gas Pipeline Station 755+95 is denoted as "STA 755+95". See Public Utility Commission Docket 7970 for more information.*



## SITE

**Location:** Lincoln Road (STA 755+95)

**Road Surface:** Gravel

**Road Characteristics:** Crowned with no swales or ditching.

**Public/Private Road:** Public Road

## INSPECTION SUMMARY

**Date:** June 2021

**Weather:** Sunny, 80°F

### **Final Observations:**

- No visible evidence of poor roadbed performance, erosion or settlement of road above gas line.

### **Photos:**







# BREEZY VALLEY LANE (STA 788+10)

## SITE

**Location:** Breezy Valley Lane (STA 788+10)

**Road Surface:** Paved

**Road Characteristics:** No swales or ditching.

**Public/Private Road:** Private Road

## INSPECTION SUMMARY

**Date:** June 2021

**Weather:** Sunny, 80°F

### **Final Observations:**

- No visible evidence of poor roadbed performance, erosion, or settlement of road above gas line.
- Road has been paved.

### **Photos:**







## SITE

**Location:** Hickory Place (STA 947+95)

**Road Surface:** Gravel

**Road Characteristics:** Road slopes to the north. No swales or ditching.

**Public/Private Road:** Private Road

## INSPECTION SUMMARY

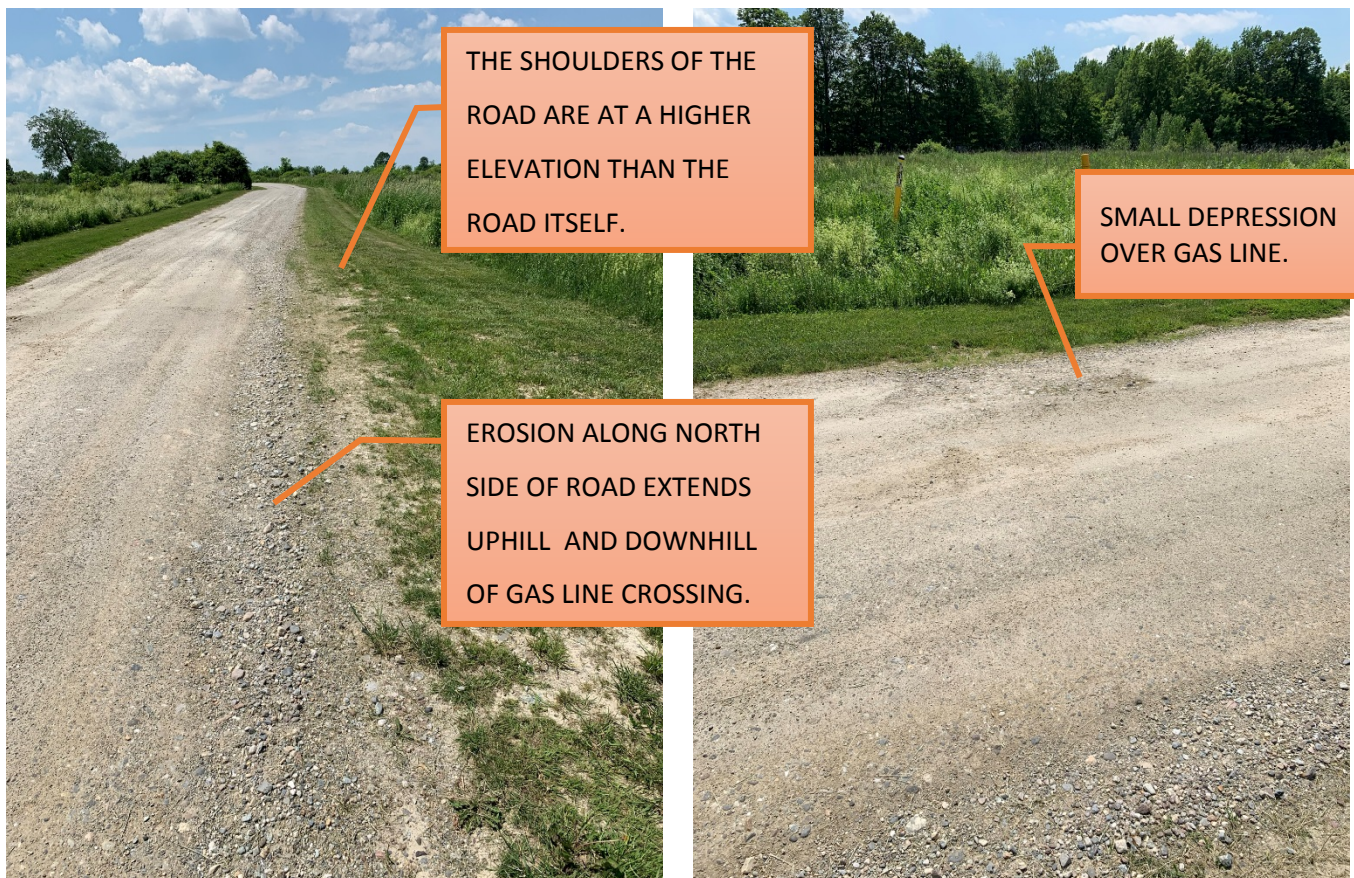
**Date:** June 2021

**Weather:** Sunny, 80°F

### **Final Observations:**

- 1"-2" of settlement in road above gas line.
- Erosion down north side of road. The erosion is not from the gas line installation but from improper road grading.
- VGS should follow up and develop a plan for construction to address the settlement above the gas line.

### **Photos:**







## SITE

**Location:** Charlotte Road (STA 1048+25)

**Road Surface:** Paved

**Road Characteristics:** Elevated paved road.

**Public/Private Road:** Public Road

## INSPECTION SUMMARY

**Date:** June 2021

**Weather:** Sunny, 80°F

### **Final Observations:**

- No visible evidence of pavement degradation, erosion, or settlement of road above gas line.
- Paved road.

### **Photos:**







## SITE

**Location:** Baldwin Road (STA 1114+40)

**Road Surface:** Gravel

**Road Characteristics:** Crowned with shallow swale on east edge of road.

**Public/Private Road:** Public Road

## INSPECTION SUMMARY

**Date:** June 2021

**Weather:** Sunny, 80°F

### **Final Observations:**

- No visible evidence of poor roadbed performance, erosion, or settlement of road above gas line.

### **Photos:**







## SITE

**Location:** Rotax Road (STA 1293+85)

**Road Surface:** Gravel

**Road Characteristics:** Swale on north edge of road.

**Public/Private Road:** Public Road

## INSPECTION SUMMARY

**Date:** June 2021

**Weather:** Sunny, 80°F

### **Final Observations:**

- Erosion along the north side of the road which starts near driveway entrance to barn upslope from crossing and continues downslope of crossing. The erosion is not from the installation of the gas line but from the lack of a well-defined roadside swale along the north side of the road.
- No visible evidence of poor roadbed performance or settlement of road above gas line.

### **Photos:**







## SITE

**Location:** Stillson Road/Cedar Lane (STA 1379+10)

**Road Surface:** Gravel

**Road Characteristics:** Elevated gravel road.

**Public/Private Road:** Private Road

## INSPECTION SUMMARY

**Date:** June 2021

**Weather:** Sunny, 80°F

### **Final Observations:**

- No visible evidence of poor roadbed performance, erosion, or settlement of road above gas line.

### **Photos:**







## SITE

**Location:** Post Road (STA 1424+25)

**Road Surface:** Gravel

**Road Characteristics:** Swale on northeast side of road, steep slope to southwest.

**Public/Private Road:** Private Road

## INSPECTION SUMMARY

**Date:** June 2021

**Weather:** Sunny, 80°F

### **Final Observations:**

- The washout remains in the middle of the road. It extends uphill of the gas line crossing and continues downslope of the crossing. The erosion is not from the gas line installation but from improper road grading.
- No visible evidence of poor roadbed performance or settlement of road above gas line.

### **Photos:**







## SITE

**Location:** Old Stage Road (STA 1547+60)

**Road Surface:** Gravel

**Road Characteristics:** Crowned road with shallow swale on both sides.

**Public/Private Road:** Public Road

## INSPECTION SUMMARY

**Date:** June 2021

**Weather:** Sunny, 80°F

### **Final Observations:**

- No visible evidence of poor roadbed performance, erosion, or settlement of road above gas line.

### **Photos:**







## SITE

**Location:** Old Stage Road (STA 1553+55)

**Road Surface:** Gravel

**Road Characteristics:** Swale on east side of road, steep slope to west.

**Public/Private Road:** Public Road

## INSPECTION SUMMARY

**Date:** June 2021

**Weather:** Sunny, 80°F

### **Final Observations:**

- The road appears to have been regraded in the Spring. The roadside swale along the west side of the road appears to have been filled in during the road regrading. This is causing erosion down the west side of the crowned road as there is no defined area for stormwater to flow. Erosion is not from the gas line installation.
- No visible evidence of poor roadbed performance or settlement of road above gas line.

### **Photos:**







## SITE

**Location:** Old Stage Road (STA 1565+50)

**Road Surface:** Gravel

**Road Characteristics:** Swale on both sides of road.

**Public/Private Road:** Public Road

## INSPECTION SUMMARY

**Date:** June 2021

**Weather:** Sunny, 80°F

### **Final Observations:**

- No visible evidence of poor roadbed performance, erosion, or settlement of road above gas line.

### **Photos:**







## SITE

**Location:** Parks Hurlburt Road (STA 1588+45)

**Road Surface:** Gravel

**Road Characteristics:** Swale on north side of road. High bank on south side.

**Public/Private Road:** Public Road

## INSPECTION SUMMARY

**Date:** June 2021

**Weather:** Sunny, 80°F

**Final Observations:**

- No visible evidence of poor roadbed performance, erosion, or settlement of road above gas line.

**Photos:**







## SITE

**Location:** Quarry Road (STA 1768+45)

**Road Surface:** Gravel

**Road Characteristics:** Crowned road with no swales or ditching.

**Public/Private Road:** Public Road

## INSPECTION SUMMARY

**Date:** June 2021

**Weather:** Sunny, 80°F

### **Final Observations:**

- No visible evidence of poor roadbed performance, erosion, or settlement of road above gas line.

### **Photos:**







## SITE

**Location:** Hunt Road (STA 2011+60)

**Road Surface:** Gravel

**Road Characteristics:** Crowned road with swales on both sides.

**Public/Private Road:** Public Road

## INSPECTION SUMMARY

**Date:** June 2021

**Weather:** Sunny, 80°F

### **Final Observations:**

- Small washout located above gas line at southern edge of road.
- VGS should follow up and develop a plan for construction to address the washout above the gas line.

### **Photos:**







## SITE

**Location:** Belden Falls Road (STA 2129+45)

**Road Surface:** Gravel

**Road Characteristics:** Crowned road with swales on south side of road.

**Public/Private Road:** Public Road

## INSPECTION SUMMARY

**Date:** June 2021

**Weather:** Sunny, 80°F

### **Final Observations:**

- No visible evidence of poor roadbed performance, erosion, or settlement of road above gas line.

### **Photos:**

