

**Site/Project Location:** Emmons and Logan Counties, ND

**Date of Inspection:** 8 August 2019

Keitu staff visited the Emmons Logan Wind Farm project for a construction inspection. Inspection of construction sites focused on (1) confirming surface disturbance/work occurring within ND PSC-approved work corridor and/or route; (2) topsoil segregation occurring; (3) vegetation removal consistent with tree & scrub mitigation plan; and (4) storm water runoff and sediment control.

#### **Observed Work / Weather Conditions**

Visit occurred between 12:00 p.m. to 2:30 p.m. The weather was clear and sunny, temperature at 75°F, winds at 5-10 mph out of the west and no precipitation.

The wind farm project has been underway since spring of 2019. Turbine sites are being completed starting with the sites in the northeast corner of the project and working towards the far southwest portion of the project. During the construction inspection, sites that had started or completed turbine construction and were located in close proximity to the exclusionary zones were visited to confirm that the turbine locations were located outside the exclusionary zones.

Photo GPS points were taken during the inspection as a location reference for turbine site locations. Turbine sites that had been completed or were currently under construction that were located in close proximity to any determined exclusionary zones were visited. All turbine sites visited were located outside the determined exclusionary zones. Turbine sites visited during the inspection included sites 69, 70, 72, 87, 88, 89, 90, 92, 98, 106, 107, 109, and 110.

#### **Top Soil Management / Condition / Erosion Control / Stormwater Management**

During the inspection, stripped topsoil was noted along string roads and at turbine sites. Topsoil was appropriately segregated from the subsoil with it being piled along the opposite side of string roads and in separate piles at turbine sites. Erosion control and stormwater management BMPs were in good conditional and working effectively.

#### **Vegetation Condition**

There were locations where trees were removed where underground cables were trenched through single row shelterbelts and string roads were constructed to turbine sites. The number of trees removed was very minimal. Nextera Energy will follow the tree and shrub mitigation plan submitted as part of their Application for Certificate of Site Compatibility. In several locations, string roads to turbine sites were constructed through agricultural fields currently in crop production.

#### **Deficiencies**

No deficiencies were noted during the construction inspection.

#### **Actions Taken/To Be Taken**

Erosion control and stormwater BMPs should continue to be routinely evaluated and replaced or repaired as necessary and pad sites smoothed out once construction on the sites is completed. Topsoil piles will be used to revegetate areas not used for permanent roads or turbine pads.

**Keitu Inspector:** ZAP

**Inspection Report Submitted:** 23 August 2019

**Report Photo #1 "Trees removed from single row shelter belt for road"**



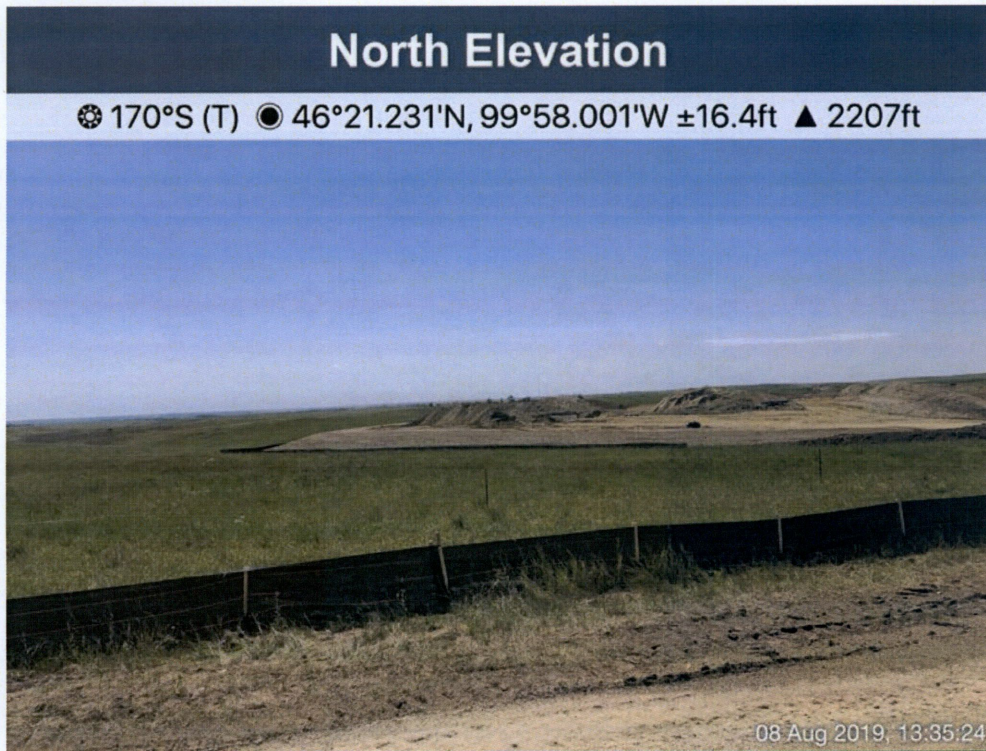
**Report Photo #2 "String road through crop field"**



**Report Photo #3 "Topsoil piles segregated from subsoil"**



**Report Photo #4 "Turbine site 87 with silt fences for stormwater management"**



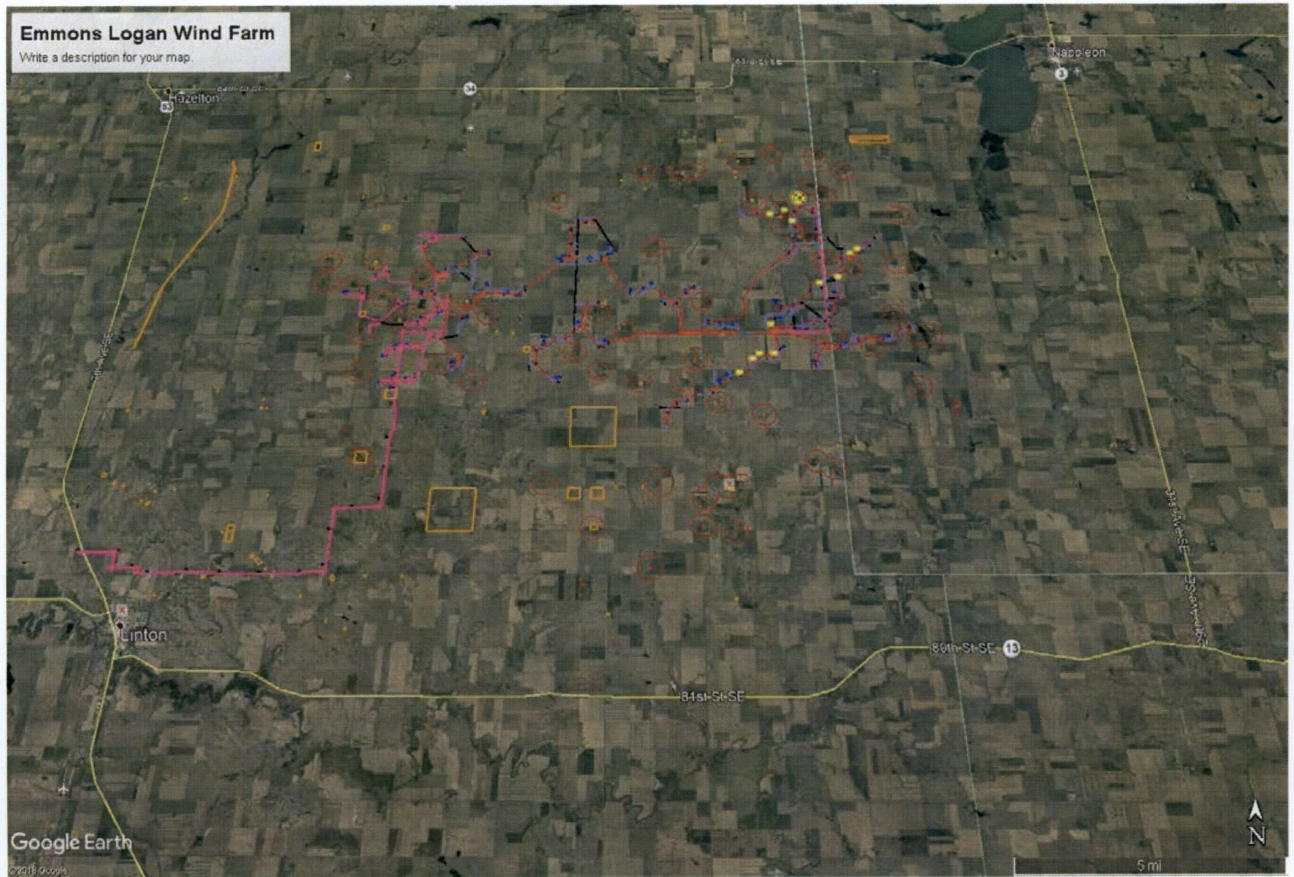
**Report Photo #5 "Turbine site 72 with construction in-progress"**



**Report Photo #5 "Turbine site 110 with construction completed"**



**Site Location Map**



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**Observed Work / Weather Conditions**

Visit occurred between 10:00 a.m. to 12:00 p.m. The weather was clear and sunny, temperature at 75°F, winds at 5-10 mph out of the west and no precipitation.

The transmission line project has been underway since spring of 2019 in conjunction with the Emmons Logan Wind Farm Project. At the time of the inspection, work was being completed at the substation and the bases for the transmission structures were in place with construction to complete the structures ongoing.

**Top Soil Management / Condition / Erosion Control / Stormwater Management**

During the inspection, stripped topsoil was noted along access roads and at the structure locations. Topsoil was appropriately segregated from the subsoil with it being piled along the opposite side of access roads and in separate piles at structure sites. Erosion control and stormwater management BMPs were in good conditional and working effectively.

**Vegetation Condition**

There were locations where trees were removed where underground cables were trenched through single row shelterbelts. The number of trees removed was very minimal. Nextera Energy will follow the tree and shrub mitigation plan submitted as part of their Application for Certificate of Site Compatibility. In several locations, transmission structures were constructed through agricultural fields currently in crop production.

**Deficiencies**

No deficiencies were noted during the construction inspection.

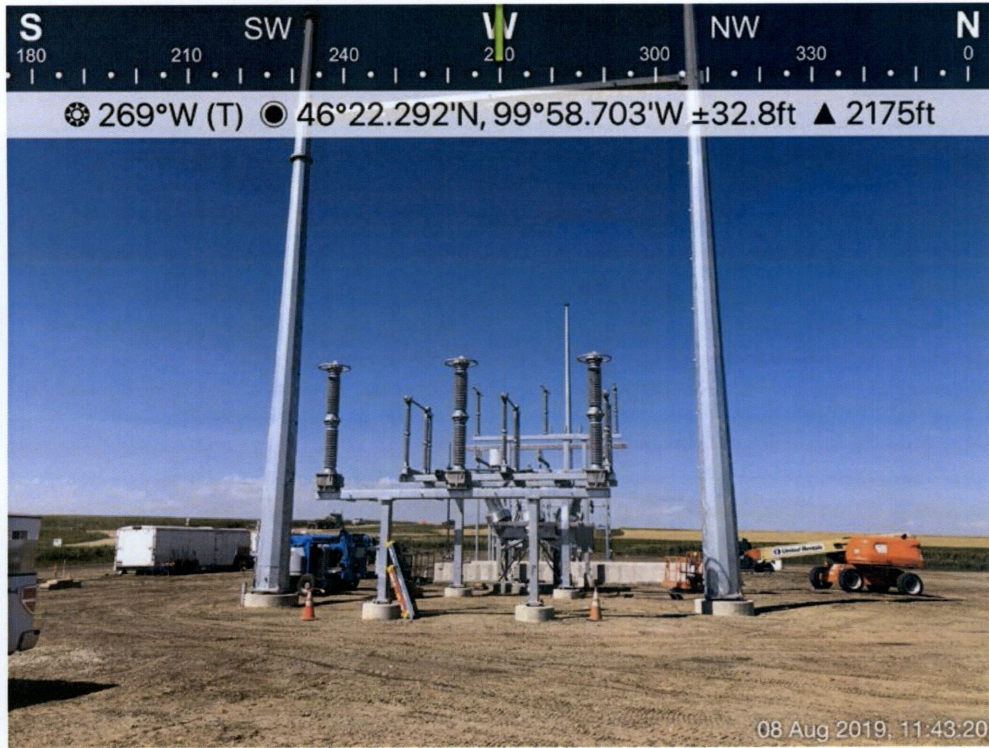
**Actions Taken/To Be Taken**

Erosion control and stormwater BMPs should continue to be routinely evaluated and replaced or repaired as necessary and pad sites smoothed out once construction on the sites is completed. Topsoil piles will be used to revegetate areas not used for permanent roads.

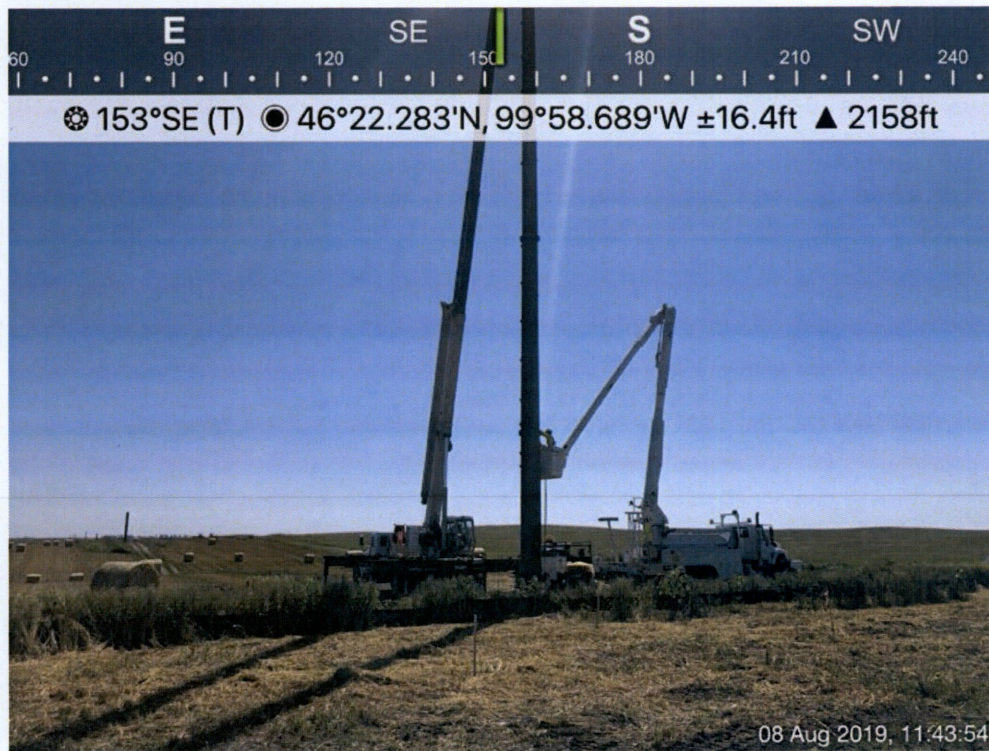
**Keitu Inspector:** ZAP

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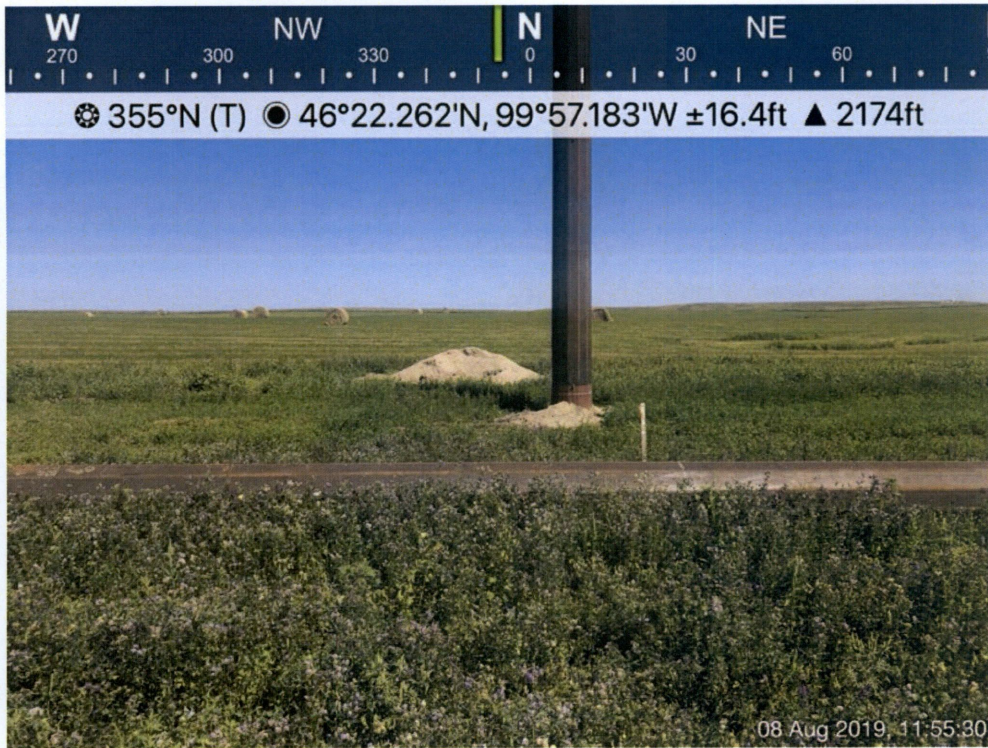
**Report Photo #1 "Substation under construction"**



**Report Photo #2 "Transmission structure under construction"**



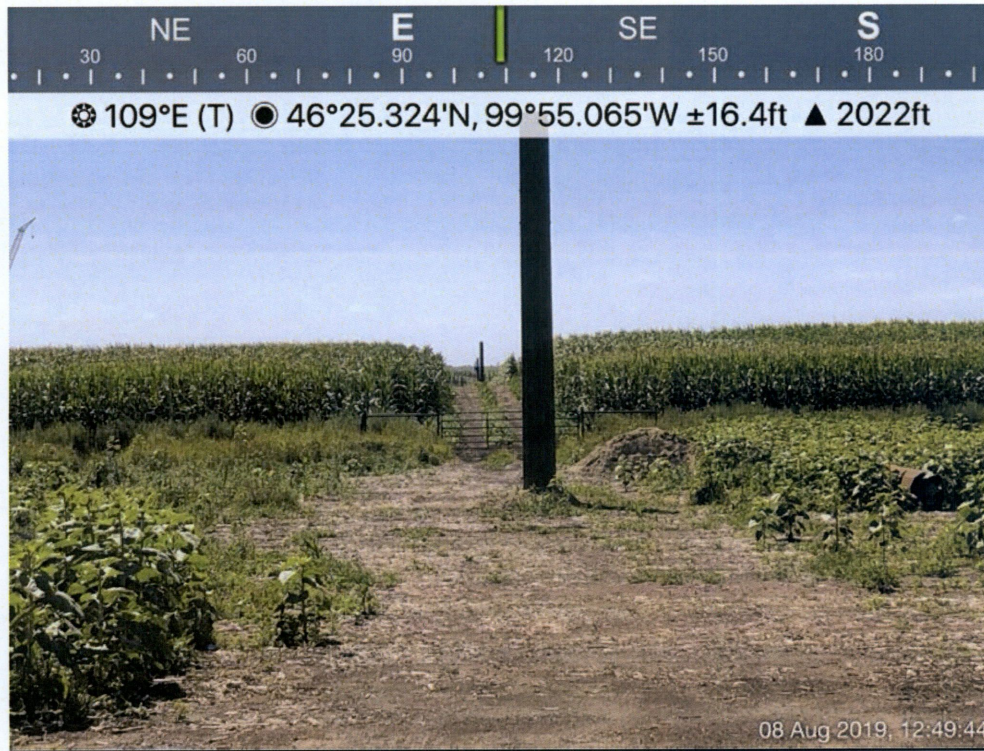
**Report Photo #3 "Topsoil piles segregated from subsoil next to transmission structure"**



**Report Photo #4 "Silt fence for stormwater management"**



**Report Photo #5 "Transmission structure running through crop field"**



**Site Location Map**

