



PU-25-84
Hiland Crude, LLC
Hiland Express Spine Pipeline
Topsoil Inspection Report

File No. 193807520

October 2025

Prepared for:

North Dakota Public Service Commission
600 E. Boulevard Avenue
Bismarck, ND 58505-0480

Prepared by:

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1.0 EXECUTIVE SUMMARY

The North Dakota Public Service Commission (PSC) retained Stantec Consulting Services Inc (Stantec) to complete inspection(s) during construction of the Hiland Crude, LLC (i.e. Hiland) Express Spine Pipeline, PU-25-84 (i.e., the Project) in McKenzie County, North Dakota. The purpose of the inspections is to ensure the Project is constructed in compliance with the siting laws and rules and the applicable PSC Orders for the Project includes requirements regarding pipeline depth and soil segregation, among others.

Construction involving soil disturbance for the Project began August 25th, 2025. Stantec was present to observe the commencement of topsoil salvage and segregation by Loenbro Construction Company, Inc. (i.e., Loenbro). Loenbro is currently performing pipeline construction on the south side of Highway 85, near Arnegard, ND. Multiple crews, working both north and south of the pipeline installation crew, were separated to individual tasks including topsoil stripping, reclamation, pipe stringing and welding, and horizontal directional drilling (HDD). Hiland Crude continues to keep multiple third-party inspectors present on-site during construction as was observed at the start of construction.

This Construction Inspection Report includes documentation of right-of-way (ROW) alignments, topsoil and subsoil segregation, and pipeline depths during the October 15th, 2025 on-site inspection of the Project. Overall, trenching depths and soil removal and storage along the ROW were satisfactory. Sporadic areas of inadequate topsoil strip depths were observed, which may be mitigated if proper care is taken to only replace topsoil to these areas during reclamation. Portions of the Project occur on steep side slopes and contain large amounts of excavated subsoil. Safe and appropriate reclamation on these areas may be difficult and thorough post-construction inspections may be required to assess any issues regarding the replacement and regrading of soil. Lastly, work along wetland and stream areas appeared to be performed using best management practices (BMP's) and in compliance with PSC Orders.



2.0 BACKGROUND INFORMATION

2.1 INTRODUCTION

Hiland is constructing the Express Spine Pipeline, a proposed 28-mile natural gas pipeline in McKenzie County North Dakota. The Project stretches from Hiland's Roosevelt Natural Gas Plant south of Watford City, ND, to the Forthune compressor station north of Alexander, ND. Most of this route is through private agricultural land, with a small portion crossing public lands and water.

2.2 PURPOSE & SCOPE

The North Dakota Energy Conversion and Transmission Facility Act (North Dakota Century Code Chapter 49-22) authorizes the Public Service Commission to determine that the location, construction, and operation of jurisdictional energy conversion and transmission facilities will produce minimal adverse effects on the environment and the welfare of citizens of North Dakota. Construction inspections aim to ensure that such projects are constructed in compliance with the siting laws (North Dakota Century Code Chapter 49-22) and rules (North Dakota Administrative Code Article 69-06) and the applicable PSC Findings of Fact, Conclusions of Law, and Order (Order). The PSC issued its Findings of Fact, Conclusions of Law and Order in Case No. PU-25-84 on August 7, 2025, granting Certificate of Corridor Compatibility No. 242.

The PSC retained Stantec to complete construction inspections of the Project. The inspection process included a review of the Application for Corridor Compatibility and Route Permit, the Project's Order, and other applicable documents. The primary intent of the inspections is to document compliance with PSC's Findings of Fact (FoF) and Project Order Provisions:

FoF #20; "Geologically unstable areas are considered Avoidance Areas. Hiland identified landslide deposits within the Survey Area. Hiland testified that the Project route does not cross any of the identified landslide deposits."

FoF #21; "Water sources for organized rural water districts are considered Avoidance Areas. The Western Area Water Supply Authority (WAWSA) project is located within the Survey Area. Hiland testified that the Project route crosses WAWSA water lines at road crossings and that Hiland will obtain crossing approvals as part of the road crossing permit process. No impacts to the WAWSA water lines are anticipated."

FoF #24; "Hiland testified that it will employ horizontal directional drilling (HDD) technique to cross any wetlands and waterbodies to avoid impacts to those features."

Order Provision #11; "Company understands and agrees that the pipeline will be buried to a minimum depth from the ground surface to the top of the pipe of 48 inches in range land, 48 inches for cultivated land, 48 inches at the bottom of the ditch for road crossings, and 72 inches across undeveloped section lines."



Order Provision #12; *“Company understands and agrees that topsoil, up to 12 inches, or topsoil to the depth of cultivation, whichever is greater, over and along trench areas where cuts will be made, must be carefully stripped and segregated from the subsoil. Any area on which excavated subsoil will be placed must first be stripped of topsoil. The stripped topsoil must not be stockpiled in natural drainages, and must be protected from water erosion. Care must be taken to protect topsoil from unnecessary compaction by heavy machinery. Unless otherwise approved by the Commission, topsoil must be removed before topsoil freezes in the late fall/early winter to the point that frost inhibits proper soil segregation. After backfilling with subsoil is completed, any excess subsoil must be placed over the excavation area, blending the grade into existing topography. Topsoil must be replaced over areas from which it was stripped only after the subsoil is replaced.”*

Order Provision #32; *“Company understands and agrees that it shall inform the Commission in writing of any plans to modify the transmission facility or of any plans to modify the site plan for the transmission facility.”*

2.3 INSPECTION METHODOLOGY

Stantec visually inspected the Project by walking and driving within the Project right-of-way. During the inspection, work done by contractors/equipment operators was observed to verify that the topsoil has been properly removed, piled, and kept segregated from subsoil. Pipeline depth was measured at several locations in the project to verify PSC requirements were met. An iPhone was used to collect photographs during the inspection with the utilization of Arc GIS's Field Maps application for GPS locating and documentation purposes. Location-referenced photographs are provided in Appendix A and Geographical Information System (GIS) generated map(s) of observation locations are provided in Figures 1-6.

Stantec met with the chief inspector for Kinder Morgan, Ricky Scruggs, onsite and discussed the applicable PSC orders, provisions, and findings of fact for the Construction Inspection.



3.0 INSPECTION RESULTS

3.1 PIPELINE DEPTH

On the day of inspection, pipeline installation was completed from 22nd St NW (observation point 20) to 23rd St NW (observation point 26), with intermittent segments installed from 23rd St to Hwy 85/1132nd Ave NW. Right-of-way reclamation was mostly completed in the completed segments, with a small approximately 10 ft wide portion maintained along the edge of the right-of-way for access purposes. There were several segments with fully installed but exposed pipe, at locations designated for horizontal directional drilling (HDD) or locations not yet backfilled.

The depth of the pipeline was ≥ 48 inches deep or ≥ 48 below assumed final grades in all inspected areas. There were no exposed pipeline segments under undeveloped section lines at the time of observation, so no verifications were made that the depths of these crossings are ≥ 72 inches. **Observation Points 26, 29, 30, and 32** overview inspection points where pipe depths were measured. Stantec did not note any concerns with the depth of trenching and pipe placement accounting for assumed backfill depth at some locations.

3.2 TOPSOIL SEGREGATION

Overall, Stantec observed adequate soil handling techniques with regard for PSC Order #11 (**Observation Points 3-7, 9-17, 19, 28, and 31**). Topsoil stockpiles were found to be relatively clear of subsoil mixing. **Observation Point 7** contained apparent topsoil within the right-of-way that appeared to be stripped and segregated for approximately 50 linear feet, where it was clear the topsoil was not fully stripped, or stripped up to 12 inches. This isolated segment was in a low area where standing water would be typical after rain events, made apparent by the deep ruts shown in the photo. It is likely that once the contractor revisits this area for pipeline installation, the area would need to be regraded to properly access, and the topsoil would be fully stripped and segregated at that time. Stantec recommends careful topsoil replacement here during the reclamation to ensure subsoil material is not used for final cover and topsoil depths match the adjacent undisturbed ground. Other topsoil and subsoil stockpiles were confirmed to be placed separately and parallel to each other.

Right-of-way areas on flatter topography in general were observed to have topsoil depths of 6 inches or less. Select areas along the corridor contained topsoil depths greater than 6 inches but did not exceed 12 inches. With generally shallow topsoil depths, it is expected that the areas stripped of topsoil would not contain any topsoil within the right-of-way (less the segregated stockpiles) as verified during the inspection.



3.3 GEOLOGICALLY UNSTABLE AREAS AND STEEP SIDE SLOPES

Stantec did not observe any geologically unstable areas during the construction inspection. Per FoF #20, there are geologically unstable areas within the project corridor, but there are no locations where the pipeline crosses these areas. Stripping efforts on steep side slopes (**Observation Points 3 and 13**) were, however, observed. These areas commonly resulted in large stockpiles on the downslope side of the ROW in order to create a flat workspace and did not contain any trenches at the time of inspection.

While soil backfilling and grading/slope stabilization of steep areas during reclamation may be difficult due to the large quantity of subsoil excavated for the ROW, this is not a concern within the scope of the construction inspection and will be monitored in future inspections.

3.4 WETLAND AND STREAM CROSSINGS

The Project alignment crosses several wetlands and/or streams which were inspected to ensure compliance with the PSC order provisions. Impacts to wetlands can be mitigated through use of BMP's such as silt fences or timber mats. Wetland/Stream crossings (**Observation Points 23 and 24**) were observed to employ silt fence. At the time of inspection, pipe installation was complete in this area and was in the process of being reclaimed, so pipe depths were not able to be documented. No eroding soils or soil deposits were observed along the stream banks or in wetlands.

3.5 BEST MANAGEMENT PRACTICES

Several Erosion Control Best Management Practices (BMPs) were observed. Timber mats were used at locations crossing drainage ditches (**Observation Points 8 and 18**) where it appeared the natural drainage patterns were successfully maintained. Silt fence and/or bio logs were commonly used adjacent to wetlands and on the downslope side of steeper side slopes (**Observation Points 1, 20, 23 and 24**). BMPs used throughout the site appeared to be maintained and there was no observed erosion or deposition of soils outside of the project right-of-way.



4.0 RECOMMENDATIONS

Construction Inspections for PU-25-84 have verified that the Project, overall, is being constructed in compliance with the siting laws, siting rules, and applicable Commission Orders. However, some minor issues were observed that should be addressed to minimize adverse effects on the environment and the welfare of citizens of North Dakota. Stantec makes the following recommendations to alleviate the issues observed during the Project inspection:

- Address areas with apparent unstripped topsoil by further topsoil salvage prior to or during trenching, and/or mitigate soil compaction during reclamation by deep-tillage or other means (Observation Point 7).
- Contractors and equipment operators must be careful that subsoil is not mixed with topsoil during reclamation and topsoil must be replaced over areas from which it was stripped only after the subsoil is replaced. This may be challenging along areas of the ROW with steep cuts and Bridger should employ a strategy to ensure this is accomplished.
- Monitor activities of topsoil handling as winter approaches. All topsoil stripping must be completed prior to topsoil freezing to the point that ground frost inhibits proper soil segregation, unless otherwise authorized by the PSC.
- Continue implementing BMPs and stockpile protection measures, especially if stockpiles are to be left over winter when spring melting conditions increase soil erosion.



5.0 SIGNATURE

Stantec's Project Manager and Registered North Dakota Professional Engineer, Jordan Twete prepared this report. The report was reviewed by Matt Retka, North Dakota Professional Soil Classifier.

The conclusions in this Report are Stantec's professional opinion, as of the time of the Report, and concerning the scope described in the Report. The opinions in the document are based on conditions and information existing at the time the document was published and may not take into account any subsequent changes. The Report relates solely to the specific project for which Stantec was retained and the stated purpose for which the Report was prepared. The Report is not to be used or relied on for any variation or extension of the project, or for any other project or purpose, and any unauthorized use or reliance is at the recipient's own risk.

Stantec has assumed all information received from the ND PSC and third parties in the preparation of the Report to be correct. While Stantec has exercised a customary level of judgment or due diligence in the use of such information, Stantec assumes no responsibility for the consequences of any error or omission contained therein.

This Report is intended solely for use by the ND PSC in accordance with Stantec's contract with the ND PSC. While the Report may be provided to applicable authorities having jurisdiction and others for whom the ND PSC is responsible, Stantec does not warrant the services to any third party. The report may not be relied upon by any other party without the express written consent of Stantec, which may be withheld at Stantec's discretion.



Jordan Twete
Project Manager
Civil Engineer

October 29, 2025

Date



FIGURES

Figures 1-6: Construction Observation Locations Map



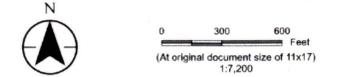
Figure No.
1

Title
Construction Observation Locations

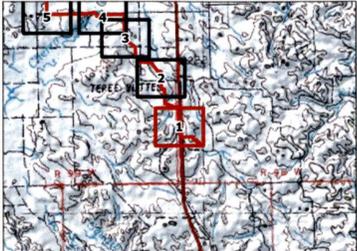
Client/Project
North Dakota Public Service Commission
PU-25-084 Hiland Express Spine Pipeline

Project Location
T49N, R20W, S11
McKenzie Co., ND

Prepared by BS on 2025-10-29



- Legend
- Hiland Express Spine Pipeline
 - Township Boundary
 - Section Boundary
 - Construction Observation Point Location



- Notes
1. Coordinate System: NAD 1983 UTM Zone 13N
 2. Data Source: ESRI, USGS
 3. Background: ESRI World Imagery



Disclaimer: This document has been prepared based on information provided by others as cited in the Notes section. Stantec has not verified the accuracy and/or completeness of this information and shall not be responsible for any errors or omissions which may be incorporated herein as a result. Stantec assumes no responsibility for data supplied in electronic format, and the recipient accepts full responsibility for verifying the accuracy and completeness of the data.



Figure No.
2

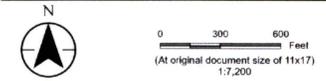
Title
Construction Observation Locations

Client/Project
North Dakota Public Service Commission
PU-25-084 Hiland Express Spine Pipeline

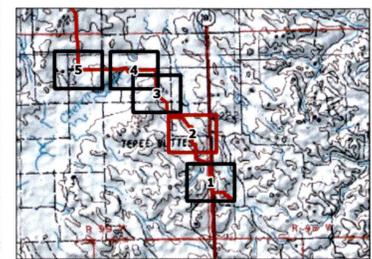
Project Location
T148N, R08W, S11
McKenzie Co., ND

227708322

Prepared by BS on 2025-10-29



- Legend
- Hiland Express Spine Pipeline
 - Township Boundary
 - Section Boundary
 - Construction Observation Point Location



- Notes
1. Coordinate System: NAD 1983 UTM, Zone 13N
 2. Data Sources: ESRI, USGS
 3. Background: ESRI World Imagery



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Figure No.
3

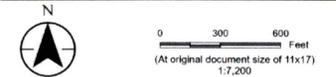
Title
Construction Observation Locations

Client/Project
North Dakota Public Service Commission
PU-25-084 Hiland Express Spine Pipeline

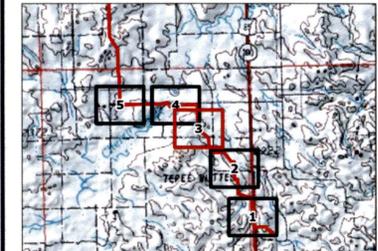
Project Location
T146N, R69W, S11
McKenzie Co., ND

227708322

Prepared by BS on 2025-10-29



- Legend
- Hiland Express Spine Pipeline
 - Township Boundary
 - Section Boundary
 - Construction Observation Point Location



- Notes
1. Coordinate System: NAD 1983 UTM Zone 13N
 2. Data Sources: ESRI, USGS
 3. Background: ESRI World Imagery



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Figure No.
4

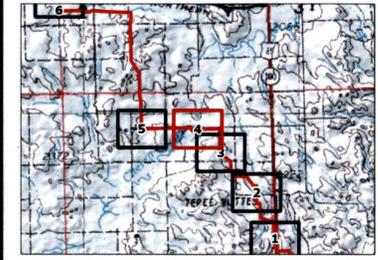
Title
Construction Observation Locations

Client/Project 227708322
North Dakota Public Service Commission
PU-25-084 Hiland Express Spine Pipeline

Project Location Prepared by BS on 2025-10-29
T142N, R09W, S11
McKenzie Co., ND



- Legend
- Hiland Express Spine Pipeline
 - Township Boundary
 - Section Boundary
 - Construction Observation Point Location



- Notes
1. Coordinate System: NAD 1983 UTM Zone 13N
 2. Data Sources: ESRI, USGS
 3. Background: ESRI World Imagery



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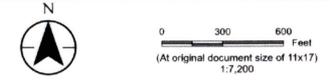
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5

Title
Construction Observation Locations

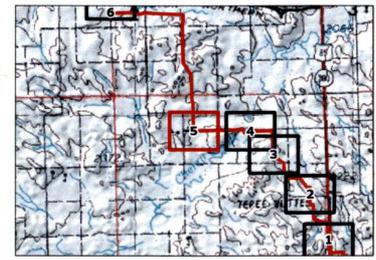
Client/Project
North Dakota Public Service Commission
PU-25-084 Hiland Express Spine Pipeline

Project Location
T148N, R89W, S11
McKenzie Co., ND

Prepared by BS on 2025-10-29



- Legend
- Hiland Express Spine Pipeline
 - Township Boundary
 - Section Boundary
 - Construction Observation Point Location



- Notes
1. Coordinate System: NAD 1983 UTM Zone 13N
 2. Data Sources: ESRI USGS
 3. Background: ESRI World Imagery



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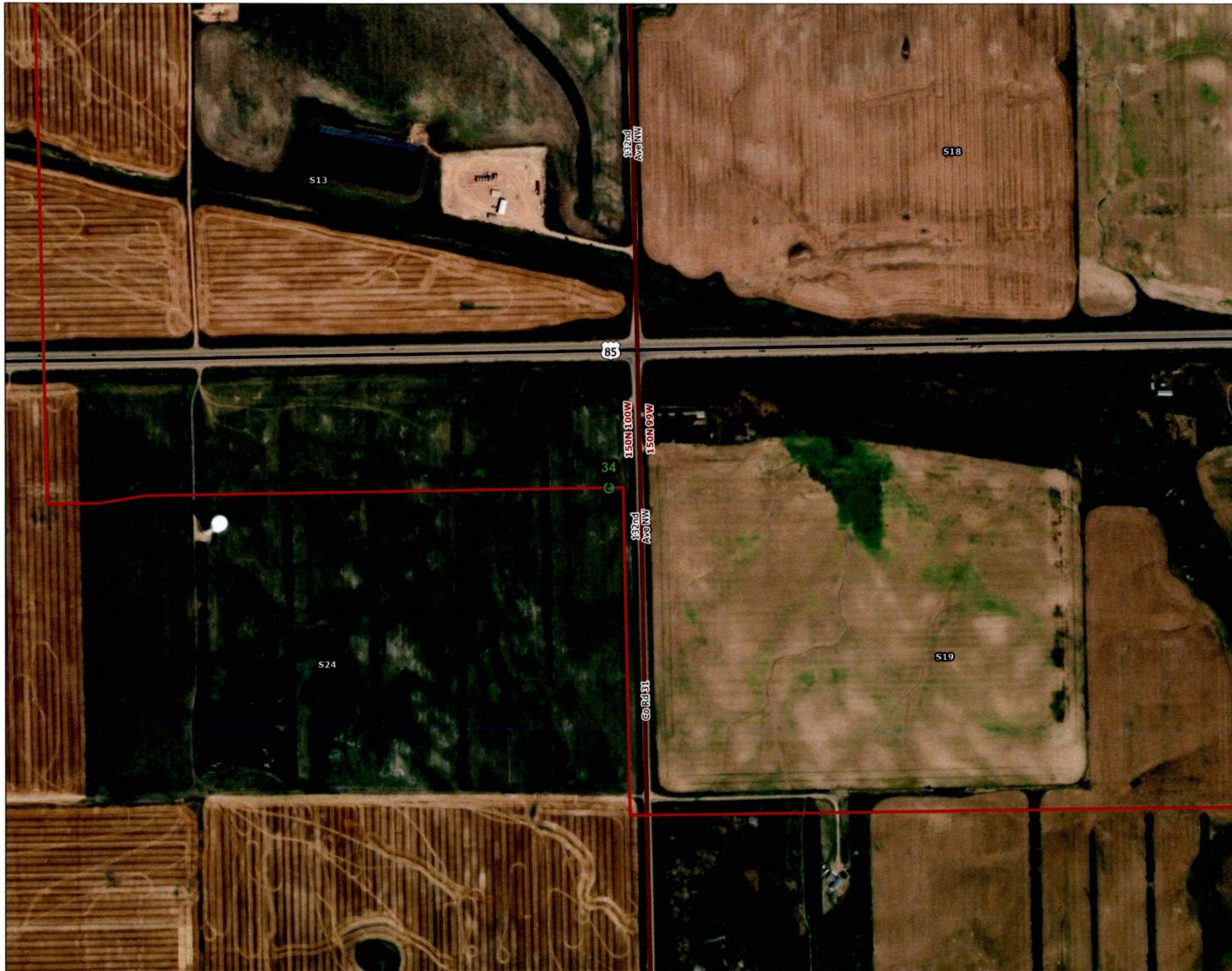


Figure No.
6

Title
Construction Observation Locations

Client/Project
North Dakota Public Service Commission
PU-25-084 Hiland Express Spine Pipeline

Project Location
T149N, R09W, S11
McKenzie Co., ND

227708322

Prepared by BS on 2025-10-29



- Legend
- Hiland Express Spine Pipeline
 - Township Boundary
 - Section Boundary
 - Construction Observation Point Location



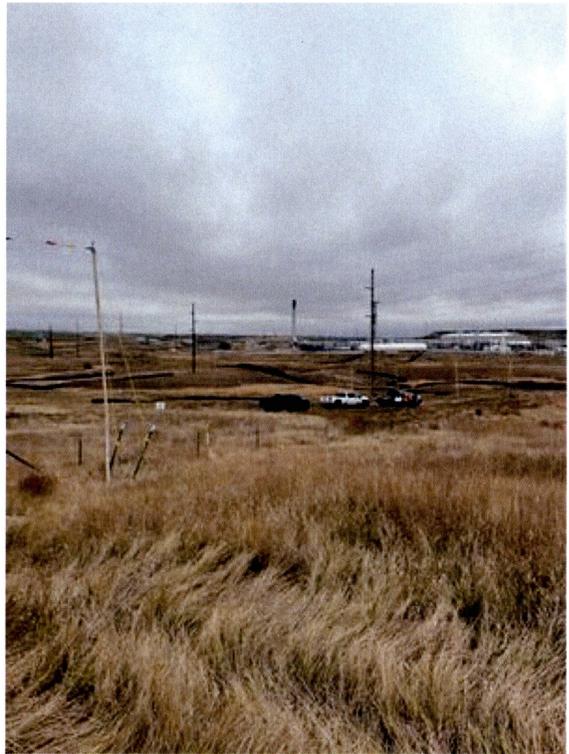
- Notes
1. Coordinate System: NAD 1983 UTM Zone 13N
 2. Data Sources: ESRI, USGS
 3. Background: ESRI World Imagery

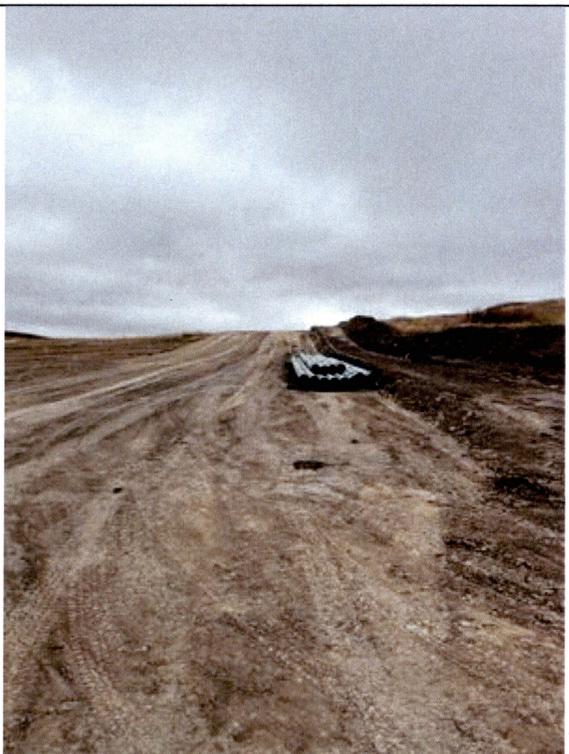


APPENDIX A

Observation Point Photolog

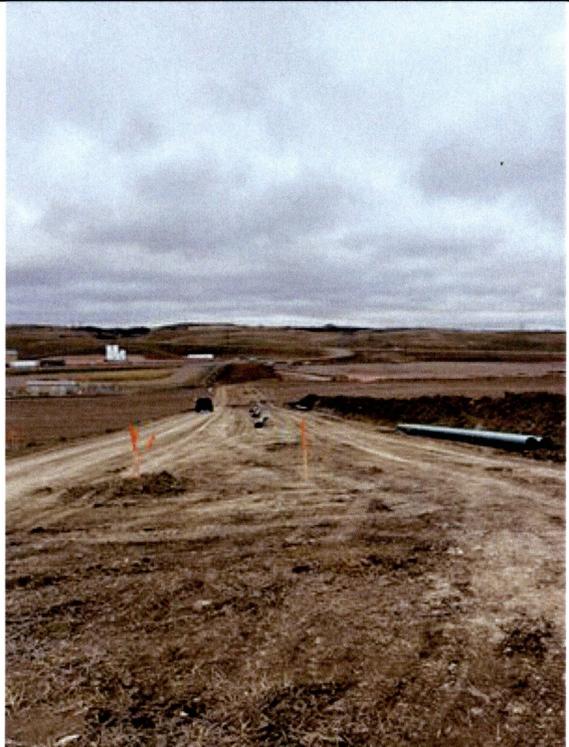
PU-25-84 (Hiland Express Spine Pipeline): Observation Point Photolog

<p>Final</p> 	<p>Observation Point: 1 Date Taken: October 15, 2025 11:55 AM Direction Photo is Taken: Photo Description: Silt fence placed in lowlands near tie in point @ gas plant Latitude: 47.69325011946764 Longitude: -103.272497308348</p>
---	--

	<p>Observation Point: 2 Date Taken: October 15, 2025 11:52 AM Direction Photo is Taken: West Photo Description: Sta. 15+00 topsoil stripped and stockpiled Latitude: 47.69333125555248 Longitude: -103.27354001606601</p>
---	--

PU-25-84 (Hiland Express Spine Pipeline): Observation Point Photolog

	<p>Observation Point: 3 Date Taken: October 15, 2025 11:47 AM Direction Photo is Taken: South</p> <p>Photo Description: Topsoil stripped and prepped for trenching sta. 19+00</p> <p>Latitude: 47.69459486944016 Longitude: -103.27383530974149</p>
---	--

	<p>Observation Point: 4 Date Taken: October 15, 2025 12:01 PM Direction Photo is Taken: West</p> <p>Photo Description: Topsoil stripped and segregated, sta. 20+50</p> <p>Latitude: 47.69462508662473 Longitude: -103.27592533720232</p>
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PU-25-84 (Hiland Express Spine Pipeline): Observation Point Photolog



Observation Point: 5

Date Taken: October 15, 2025 1:03 PM

Direction Photo is Taken: North

Photo Description: Topsoil stripped and segregated, very minimal depth to subsoil, less than 6".

Latitude: 47.69517970902

Longitude: -103.28099974479854



Observation Point: 6

Date Taken: October 15, 2025 1:10 PM

Direction Photo is Taken: North

Photo Description: Topsoil stripped and segregated prior to trenching.

Latitude: 47.69611015400872

Longitude: -103.282011277357



Observation Point: 7

Date Taken: October 15, 2025 1:13 PM

Direction Photo is Taken: North

Photo Description: Topsoil stripped and segregated in low area, appears additional stripping necessary to reach subsoil.

Latitude: 47.69937926466471

Longitude: -103.2821789376693

PU-25-84 (Hiland Express Spine Pipeline): Observation Point Photolog



Observation Point: 8

Date Taken: October 15, 2025 1:21 PM

Direction Photo is Taken: North

Photo Description: Example of construction access, rig mats utilized to maintain drainage to underlying swale.

Latitude: 47.70309466430435

Longitude: -103.2827088928009



Observation Point: 9

Date Taken: October 15, 2025 1:24 PM

Direction Photo is Taken: North

Photo Description: Topsoil stripped and segregated prior to trenching.

Latitude: 47.7038761092043

Longitude: -103.28255080968702



Observation Point: 10

Date Taken: October 15, 2025 1:27 PM

Direction Photo is Taken: North

Photo Description: Clear distinction between topsoil and subsoil. Stripping and segregation are being performed adequately.

Latitude: 47.7052043890613

Longitude: -103.28258291141663

PU-25-84 (Hiland Express Spine Pipeline): Observation Point Photolog



Observation Point: 11

Date Taken: October 15, 2025 1:45 PM

Direction Photo is Taken: South

Photo Description: Topsoil stripped to adequate depth, clear distinction between topsoil and subsoil.

Latitude: 47.71225621002105

Longitude: -103.29074210494296



Observation Point: 12

Date Taken: October 15, 2025 1:46 PM

Direction Photo is Taken: North

Photo Description: Pipe crew unloading and stringing pipe to prep for welding/installation.

Latitude: 47.71249559699851

Longitude: -103.2907836368851

PU-25-84 (Hiland Express Spine Pipeline): Observation Point Photolog

	<p>Observation Point: 13 Date Taken: October 15, 2025 1:49 PM Direction Photo is Taken: North</p> <p>Photo Description: Area of excess topsoil depth, stripped well past the required 12". Use of biorolls observed in photo to mitigate erosion from steep slope/dropoff.</p> <p>Latitude: 47.71329825291326 Longitude: -103.29081561671842</p>
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	<p>Observation Point: 14 Date Taken: October 15, 2025 1:52 PM Direction Photo is Taken: North</p> <p>Photo Description: Topsoil stripped to full depth and proper segregation observed. Pipeline not yet installed in this area.</p> <p>Latitude: 47.71565041084372 Longitude: -103.29291175671906</p>
--	---

	<p>Observation Point: 15 Date Taken: October 15, 2025 1:56 PM Direction Photo is Taken: North</p> <p>Photo Description: Topsoil stripped and segregated adequately.</p> <p>Latitude: 47.71791703658616 Longitude: -103.29281368429623</p>
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PU-25-84 (Hiland Express Spine Pipeline): Observation Point Photolog



Observation Point: 16

Date Taken: October 15, 2025 2:10 PM

Direction Photo is Taken: South

Photo Description: Topsoil stripped and segregated prior to trenching. Rich soils in this area. Subsoils appear darker than in other photos but upon closer inspection did not have the properties that would normally be observed with topsoil.

Latitude: 47.72505042924551

Longitude: -103.2977245606337



Observation Point: 17

Date Taken: October 15, 2025 2:13 PM

Direction Photo is Taken: West

Photo Description: Topsoil stripped to adequate depth and segregated prior to trenching.

Latitude: 47.72629732128589

Longitude: -103.29969195988534



Observation Point: 18

Date Taken: October 15, 2025 2:22 PM

Direction Photo is Taken: East

Photo Description: Example of typical construction access. Adequately maintained with proper mat installation as to maintain existing drainage patterns.

Latitude: 47.72644817571585

Longitude: -103.30465257159018

PU-25-84 (Hiland Express Spine Pipeline): Observation Point Photolog



Observation Point: 19

Date Taken: October 15, 2025 2:34 PM

Direction Photo is Taken: North

Photo Description: Topsoil visibly stripped to subsoil and segregated adequately. No trenching performed in this area yet.

Latitude: 47.7295386816974

Longitude: -103.30821134707126



Observation Point: 20

Date Taken: October 15, 2025 11:29 AM

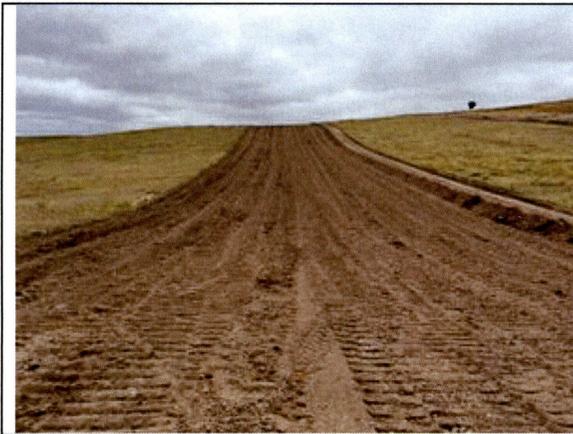
Direction Photo is Taken: North

Photo Description: Topsoil respread, sta. 227+00

Latitude: 47.73314860540425

Longitude: -103.3093512620664

PU-25-84 (Hiland Express Spine Pipeline): Observation Point Photolog



Observation Point: 21

Date Taken: October 15, 2025 2:42 PM

Direction Photo is Taken: South

Photo Description: Topsoil respread over buried pipeline, final establishment not planned until following spring.

Latitude: 47.74320944578052

Longitude: -103.3146689047189



Observation Point: 22

Date Taken: October 15, 2025 12:12 PM

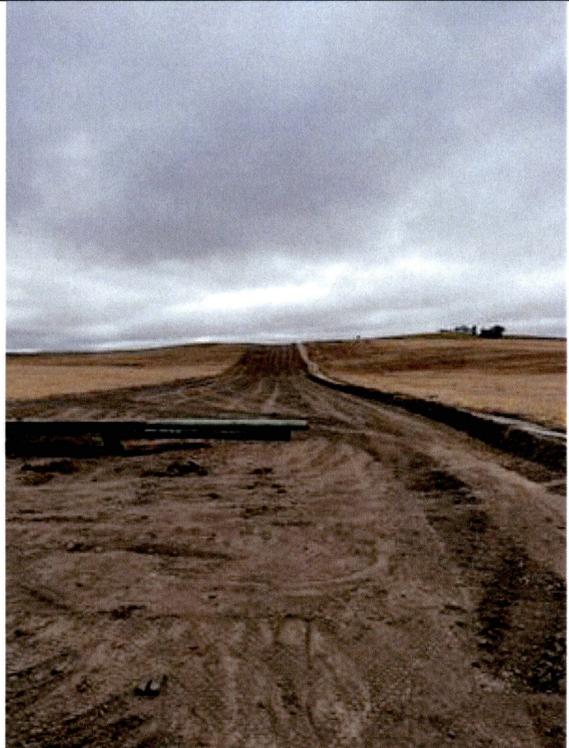
Direction Photo is Taken: West

Photo Description: Topsoil respread at location where project kicked off

Latitude: 47.7464772554319

Longitude: -103.3147729240453

PU-25-84 (Hiland Express Spine Pipeline): Observation Point Photolog

	<p>Observation Point: 22 Date Taken: October 15, 2025 12:15 PM Direction Photo is Taken: South</p> <p>Photo Description: Topsoil respread over pipeline after insrallation</p> <p>Latitude: 47.74639032644128 Longitude: -103.3147715290629</p>
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	<p>Observation Point: 23 Date Taken: October 15, 2025 2:51 PM Direction Photo is Taken: West</p> <p>Photo Description: Silt fence installed along ROW in land area. Stream crossing straight ahead in photo planned for HDD.</p> <p>Latitude: 47.74658714753621 Longitude: -103.32716426586317</p>
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PU-25-84 (Hiland Express Spine Pipeline): Observation Point Photolog

	<p>Observation Point: 24 Date Taken: October 15, 2025 3:00 PM Direction Photo is Taken: East</p> <p>Photo Description: Topsoil respread over ROW following pipeline installation. Silt fence maintained properly adjacent to creek/wetlands.</p> <p>Latitude: 47.7460822179392 Longitude: -103.33102291597913</p>
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	<p>Observation Point: 25 Date Taken: October 15, 2025 3:02 PM Direction Photo is Taken: Southwest</p> <p>Photo Description: Construction crew working in grading/respread into topsoil following pipeline installation.</p> <p>Latitude: 47.74699022896459 Longitude: -103.33240827644603</p>
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	<p>Observation Point: 26 Date Taken: October 15, 2025 3:06 PM Direction Photo is Taken: East</p> <p>Photo Description: Crew backfilling pipe trench, pipe is confirmed beyond the min. 48" depth.</p> <p>Latitude: 47.74748966606315 Longitude: -103.33410862891348</p>
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PU-25-84 (Hiland Express Spine Pipeline): Observation Point Photolog



Observation Point: 27

Date Taken: October 15, 2025 3:08 PM

Direction Photo is Taken: West

Photo Description: Crew welding and stringing together pipeline prior to trenching/installation.

Latitude: 47.7474365660811

Longitude: -103.33424340888963



Observation Point: 28

Date Taken: October 15, 2025 3:18 PM

Direction Photo is Taken: West

Photo Description: Topsoil adequately stripped and segregated within ROW.

Latitude: 47.74722804276882

Longitude: -103.34162129904976

PU-25-84 (Hiland Express Spine Pipeline): Observation Point Photolog



Observation Point: 29

Date Taken: October 15, 2025 12:48 PM

Direction Photo is Taken: East

Photo Description: Minimum pipe depth of 48" for boring under tree row confirmed.

Latitude: 47.74719646746958

Longitude: -103.3493579050836



Observation Point: 30

Date Taken: October 15, 2025 12:29 PM

Direction Photo is Taken: East

Photo Description: Boring pit location prior to backfilling

Latitude: 47.74717882948533

Longitude: -103.34951130704798

PU-25-84 (Hiland Express Spine Pipeline): Observation Point Photolog



Observation Point: 31

Date Taken: October 15, 2025 12:26 PM

Direction Photo is Taken: West

Photo Description: Topsoil stripped and segregated prior to trenching

Latitude: 47.74713103356209

Longitude: -103.35030488385517



Observation Point: 32

Date Taken: October 15, 2025 3:27 PM

Direction Photo is Taken: East

Photo Description: Confirmed 48" min. Pipe depth. Crew working on prepping to tie open trench pipeline into HDD pipeline.

Latitude: 47.7471244264539

Longitude: -103.3601900873367

PU-25-84 (Hiland Express Spine Pipeline): Observation Point Photolog



Observation Point: 33

Date Taken: October 15, 2025 3:42 PM

Direction Photo is Taken: South

Photo Description: Crew trenching for open cut pipeline install. Pipe in photo confirmed at 48" depth.

Latitude: 47.75386557195876

Longitude: -103.36287975431487



Observation Point: 34

Date Taken: October 15, 2025 11:02 AM

Direction Photo is Taken: North

Photo Description: Open trench facing North

Latitude: 47.80258733213166

Longitude: -103.41267306694515