

September 29, 2025

Alberta Transportation and Economic Corridors 4th Floor, Provincial Building 4920 – 51st Street Red Deer, Alberta T4N 6K8

Tony Penney, P.Eng. Construction Engineer

Dear Mr. Penney:

CON0022160 Central Region GRMP Instrumentation Monitoring Site C067; H21:14, km 12.988 Kneehill Creek Slide Section C – 2025 Fall Readings

1 GENERAL

Six slope inclinometers (SIs) (SI16-02, SI17-C67-01 through SI17-C67-05) and one standpipe piezometer (SP) (SP16-01) were read at the C067 site in the Central Region on September 10, 2025 by Katrina Cereno, E.I.T. of Klohn Crippen Berger Ltd. (KCB). These instruments were read as part of the Central Region Geohazard Risk Management Program (GRMP). The site is located on Hwy 21:14, km 12.988, approximately 1 km south of the Hwy 21:13 and Hwy 575:02/04 intersection, and 5 km west of Carbon, Alberta. The approximate site coordinates are 5707671 N, 344892 E (UTM Zone 12, NAD 83). A site plan is presented in Figure 1.

The geohazard at the CO67 site consists of two slope failures along the west highway embankment slope. The two slope failures are referred to as Site A, which is at the north extent of the site, and Site B, which is at the south extent of the site (higher and lower elevations, respectively).

In April 2017, a 15-m-deep, 80-m-long H-pile wall (H360X132) consisting of 112 piles was installed at Site A, and a 16-m-deep, 42.5-m-long H-pile wall (H360X132) consisting of 60 piles was installed at Site B. The location and extents of the H-pile walls are presented in Figure 1. Additional remedial actions include regular pavement maintenance (e.g., patching or chip sealing).

In February and November 2016, KCB conducted two geotechnical site investigations at the C067 site to support design and construction work. Drilling in February and November 2016 was completed by Core Drilling Corp. and Mayfield Drilling, respectively. The encountered stratigraphy was generally as follows: fill (sand and gravel), overlying medium to high plastic clay till and silt.



1.1 Instrumentation

Instrumentation installation details are tabulated in Table 1.1. Instrument locations are presented in Figure 1.

In 2016, KCB installed one SI (SI16-02) and one SP (SP16-03) at Site A, and one SI (SI16-01) and two SPs (SP16-01 and SP16-02) at Site B to monitor depth of movement and groundwater conditions, respectively. The instruments were installed on the west shoulder of Hwy 21:13 between the guardrail and H-pile walls. By May 2019, SI16-01, SP16-02, and SP16-03 were inoperable.

In April 2017, five SIs (SI17-C67-01 through SI17-C67-05) were installed to monitor deflection of the H-pile walls. SI17-C67-01 and SI17-C67-02 were installed at Site A, and SI17-C67-03 through SI17-C67-05 were installed at Site B. Each SI was installed in the H-pile wall, in a rectangular opening created by tack-welding an L-shaped bracket (L102X102X6.4) to the web and flange of an H-pile. The space between the SI casing and rectangular opening was backfilled with sand.

All operable instruments are protected by above-ground casing protectors, excluding SI16-02.

The operable SIs were read using the same metric RST Digital MEMS Inclinometer System that has been used to read the SIs since they were re-initialized in July 2017, when the SI equipment was changed.

The operable standpipe was read using a Heron Instruments Water Level Meter.

Table 1.1 Instrumentation Installation Details

Instrument ID	Instrument Type	Site	Date Installed	UTM Coordinates ¹ (m) Northing Easting		Ground Surface Elevation ¹ (m)	Stick Up (m)	Depth (mbgs²)	Condition	
SI16-01	SI	В	Feb. 9, 2016	5707640	344910	Unknown	1.0	15.2	Inoperable ³	
SI16-02	SI	Α	Nov. 8, 2016	5708070	344700	Unknown	0.7	15.3	Operable	
SI17-C67-01	SI	Α	Apr. 27, 2017	5708082	344703	830.0	1.1	14.2	Operable	
SI17-C67-02	SI	Α	Apr. 27, 2017	5708064	344706	831.0	1.1	13.3	Operable	
SI17-C67-03	SI	В	Apr. 27, 2017	5707651	344904	808.0	0.7	14.9	Operable	
SI17-C67-04	SI	В	Apr. 27, 2017	5707634	344916	807.0	0.6	14.7	Operable	
SI17-C67-05	SI	В	Apr. 28, 2017	5707619	344929	805.0	0.4	12.8	Operable	
SP16-01	SP	В	Feb. 9, 2016	5707640	344910	808.2	0.7	15.2	Operable	
SP16-02	SP	₽	Nov. 8, 2016	5707620	344930	Unknown	0.4	7.3	Inoperable	
SP16-03	SP	A	Nov. 8, 2016	5708070	344700	Unknown	0.7	5.5	Inoperable	

Notes:

¹ Instrument coordinates and ground surface elevations were obtained by KCB with a handheld GPS during the 2017 instrument installation program.

² Metres below ground surface (mbgs).

³ SI16-01 is sheared at an approximate depth of 4.5 mbgs.

2 INTERPRETATION

2.1 General

For the operable SIs, the cumulative displacement, incremental displacement, and displacement-time data was plotted in the A-direction (i.e., the direction of the A0-grooves). The A0-grooves of all the SIs are aligned approximately perpendicular to the highway in the direction of anticipated maximum movement (i.e., in the downslope direction).

Negative rates of movement are sometimes recorded, which indicate the readings are within the reading accuracy of the SI equipment.

For the operable SP, the recorded water level was converted to an equivalent water elevation and plotted relative to ground surface elevation and the screen elevation for the instrument.

The SI and piezometer plots are included in Appendix I, and a summary of the SI and piezometer data is provided in Table 2.1 and Table 2.2, respectively. The SI data plots presented herein only include data for readings taken with the metric RST equipment that was used to reinitialize the SIs in 2017.

2.2 Zones of Movement

2.2.1 Site A (North, Higher Elevation)

The H-pile wall is 15 m deep at Site A, and the SIs are approximately 13.3 m to 14.2 m deep.

Distributed movement is being recorded in SI16-02 (downslope of the Site A H-pile wall) from near ground surface to approximately 9 m below ground surface or approximately 6.5 m above the base of the H-pile wall.

Distributed movement is being recorded in the SIs installed in the H-pile wall (SI17-C67-01 and SI17-C67-02) from top of casing to an approximate depth of 11 m below ground surface or approximately 4 m above the base of the H-pile wall.

2.2.2 Site B (South, Lower Elevation)

The H-pile wall is 15 m deep at Site B, and the SIs are approximately 12.8 m to 14.9 m deep.

Before installation of the H-pile wall, distributed movement was recorded in SI16-01 from ground surface to an approximate depth of 4.5 m below ground surface. However, between the fall 2016 and spring 2017 readings, SI16-01 sheared at this depth and is inoperable.

Distributed movement is being recorded in the SIs installed in the H-pile wall (SI17-C67-03 though and SI17-C67-05) from top of casing to an approximate depth of 8.7 m, 7.8 m, and 6.5 m, respectively.



Table 2.1 Slope Inclinometer Reading Summary

Instrument ID ²			Date					Movement (mm)				Rate of Movement (mm/year)			
			Previous Maximum			Ground Surface Elevation (m)	Depth of Movement (mbgs¹)	Direction of Movement ³	Maximum Cumulative			Incremental Since		Most	Change
	Site	Initialized (Re-initialized) ³	Cumulative Movement Recorded	Previous Reading	Most Recent Reading				Before Re- Initialization ³	After Re- Initialization ³	Total	Previous Maximum Cumulative	Previous Maximum	Recent Reading	from Previous Reading
SI16-02	А	Nov. 28, 2016 (Jul. 19, 2017)	Sep. 17, 2024	May 20, 2025	Sep. 10, 2025	830.0	1.0 – 9.1	A-Direction	58.9	21.8	80.7	-0.1	345.1	9.2	13.5
SI17-C67-01	А	Apr. 28, 2017 (Jul. 19, 2017)	Sep. 17, 2024	May 20, 2025	Sep. 10, 2025	830.0	0.8 - 13.8	A-Direction	0.7	18.0	18.7	-0.1	48.6	4.6	7.0
SI17-C67-02	А	Apr. 28, 2017 (Jul. 19, 2017)	May 20, 2025	May 20, 2025	Sep. 10, 2025	831.0	0.3 – 12.8	A-Direction	5.4	19.9	25.3	0.9	41.0	2.9	2.5
SI17-C67-03	В	Apr. 28, 2017 (Jul. 19, 2017)	Sep. 17, 2024	May 20, 2025	Sep. 10, 2025	808.0	0.2 – 14.7	A-Direction	7.0	22.6	29.6	1.1	115.5	6.9	8.5
SI17-C67-04	В	Apr. 28, 2017 (Jul. 19, 2017)	May 20, 2025	May 20, 2025	Sep. 10, 2025	807.0	0.3 – 14.3	A-Direction	8.8	24.7	33.5	1.0	70.9	3.3	1.1
SI17-C67-05	В	Apr. 28, 2017 (Jul. 19, 2017)	Sep. 17, 2024	May 20, 2025	Sep. 10, 2025	805.0	0.0 – 12.5	A-Direction	6.4	9.8	16.2	-2.6	88.7	7.6	15.0

Notes:

Table 2.2 Standpipe Piezometer Reading Summary

Instrument ID		Date		Ground Surface	Screen Depth	Water Level			
	Installed	Previous Reading	Most Recent Reading	Elevation (m)	(mbgs¹)	Previous Reading (mbgs1)	Most Recent Reading (mbgs1)	Change from Previous Reading (m)	
SP16-01	Feb. 9, 2016	May 20, 2025	Sep. 10, 2025	808.2	13.3	11.6	11.6	0.0	

Notes:

¹ Metres below ground surface (mbgs).

²SI16-02 was installed to monitor movement of the slide, whereas the remaining SIs were installed to monitor deflection of the H-pile walls.

³ All SIs were re-initialized in July 2017 when the SI equipment was changed.

¹Metres below ground surface (mbgs).

2.3 Interpretation of Monitoring Results

2.3.1 Site A (North, Higher Elevation)

Data obtained from SI16-02 (installed upslope of the H-pile wall) indicates the active block upslope of the H-pile wall continues to creep as the H-pile wall stabilizes the sliding mass. Before the H-pile wall was installed, the maximum rate of movement recorded in SI16-02 was approximately 205 mm/year on February 21, 2017. Between April and May 2017, after installation of the H-pile wall, the rate of movement recorded in SI16-02 increased to approximately 345 mm/year. Since September 2018, the overall rate of movement recorded in this instrument has been relatively steady (less than approximately 3 mm/year). The relatively large negative displacement recorded in May 2025 may be due to noise. The September 2025 data was consistent with historical readings for the instrument.

The deepest zone of movement being recorded in the pile-wall SIs (SI17-C67-01 and SI17-C67-02) appears to be approximately 2 m below the depth of movement recorded in SI16-02. This indicates the H-pile wall has intercepted the failure surface and is continuing to deflect, transferring load to depths below the failure plane as the piles stabilize the sliding mass.

The September 2025 data obtained from SI17-C67-01 and SI17-C67-02 indicates the top of the H-pile wall at Site A has deflected between approximately 18 mm to 25 mm since installation. In May 2017, the maximum rate of movement recorded in SI17-C67-01 and SI17-C67-02 was approximately 45 mm/year, one month after the H-pile wall was installed. The rate of movement has since slowed and is now generally less than 3 mm/year, excluding:

- Between May and September 2021, when an increased rate of movement of approximately 10 mm/year was recorded in SI17-C067-01, which may be attributed to wet weather in summer 2021. A similar increase was not recorded in SI17-C067-02.
- Between June and September 2022, when an increased rate of movement of approximately 4 mm/year and 9 mm/year was recorded in SI17-C67-01 and SI17-C67-02, respectively, likely in response to wet weather in June and July 2022.
- Increased rate of movement was recorded in SI17-C67-01 between May and September 2024 of approximately 7 mm/year. The increased rate of movement may be attributed to construction activities on site (chip sealing along the C067 site was completed in summer 2024) and wet weather in August 2024 (approximately 55 mm precipitation versus the average of 45 mm recorded between 2015 and 2024).
- Increased rate of movement of approximately 9 mm/year and 7 mm/year was recorded in SI16-02 and SI17-C067-01 in September 2025. This increase was likely attributed to noise in May 2025 data which resulted in relatively large negative displacements recorded in both instruments.

Negative rates of movement recorded in May 2025 in both SI16-02 and SI17-C067-01 indicate the movement in Site A is slow and within the reading accuracy of the SI equipment.

2.3.2 Site B (South, Lower Elevation)

The depth of movement being recorded in the pile-wall SIs (SI17-C67-03 through SI17-C67-05) appears to be occurring 2 m to 4 m below the depth of movement previously recorded in SI16-01 (inoperable). This indicates the H-pile wall has intercepted the failure surface and is continuing to deflect, transferring load to depths below the failure plane as the piles stabilize the sliding mass.

The September 2025 data obtained from SI17-C67-03 through SI17-C67-05 indicates the top of the H-pile wall has deflected between approximately 16 mm and 33 mm, since installation. The maximum rate of movement recorded in SI17-C67-03 through SI17-C67-05 was approximately 71 mm/year to 115 mm/year in May 2017, one month after the H-pile wall was installed. The rate of movement has since decreased and is now generally less than 3 mm/year, excluding:

- In September 2023, the rate of movement recorded in SI17-C067-03 through -05 increased to up to approximately 7 mm/year. Although the movement recorded in September 2023 was within historical trends for these instruments, evidence of movement (pavement cracking and settlement) primarily in the south (eastbound) lane was observed during the 2023 Section B Inspection. The increased rate of movement recorded may be attributed to settlement of the highway subgrade and fill due to H-pile wall movement between 2017 and 2023.
- In September 2024, the rate of movement recorded in SI17-C67-03 through SI17-C67-05 increased from less than approximately 2 mm/year to up to approximately 8 mm/year. The increased rate of movement may be attributed to construction activities on site (chip sealing along the site was completed in summer 2024).
- In September 2025, increased rates of movement of approximately 7 mm/year were recorded in SI17-C67-03 and SI17-C67-03. However, negative displacement was recorded in May 2025, likely due to noise. The two instruments were re-read during the May 2025 readings. The second reading replicated the negative displacement, confirming it was not a reading error.

Since installation in February 2016, water levels recorded in SP16-01 have been relatively steady, varying between approximately 11.4 m to 12.7 m below ground surface. The recorded water level has been approximately 11.6 m below ground surface since September 2023. The September 2025 reading is consistent with historical trends observed in this instrument.

2.3.3 General Discussion

Before the instruments were re-initialized in April 2017, up to approximately 10 mm of distributed movement (i.e., from top to bottom of casing) was recorded in the B-direction of the pile-wall SIs (SI17-C67-01 through SI17-C67-05). It is unknown if this movement was due to post-installation flexure or twist of the H-piles that occurred when the H-pile walls picked up load from the sliding mass. However, movements in the B-direction have attenuated and little to no additional movement has been recorded in the B-direction of these instruments since they were re-initialized, except in SI17-C67-03, but the movement has been previously attributed to poor backfill around the SI casing.



Based on KCB's 2017 design report, the top 8 m and 10 m of the H-pile walls at Site A and B, respectively, were expected to deflect up to 200 mm over the three to four years following installation (i.e., the estimated time for the H-pile wall to pick up the load and stabilize the sliding mass), respectively. However, since installation of the H-pile walls, between approximately 16 mm to 81 mm of deflection has been recorded in the pile-wall SIs and minimal pavement distress has been observed (excluding minor pavement cracking and settlement observed along Site B during the 2023 Section B Inspection) indicating the H-pile walls are performing well (particularly at Site A, where no significant pavement distress has been observed).

Relatively steady rates of movement have been recorded in the SIs since 2018/2019, generally less than 10 mm/year, with higher rates of movement typically being recorded in the fall than the spring (most likely attributed to spring freshet and spring/summer precipitation). It is anticipated that the H-pile walls will continue to deflect at what is expected to be a decreasing rate of movement until the slides are stabilized. However, movement rates may increase, or additional displacements of the H-pile walls may occur, in response to periods of heavy or prolonged rainfall that would result in higher groundwater conditions.

3 RECOMMENDATIONS

3.1 Future Work

The operable instruments should continue to be read twice per year (spring and fall).

The site should continue to be inspected by the Maintenance Contract Inspector (MCI) and as part of the Central Region GRMP Section B inspections.

3.2 Instrument Repairs and Maintenance

No instrument repairs or maintenance is required.

4 CLOSING

This report is an instrument of service of KCB. The report has been prepared for the exclusive use of TEC (Client) for the specific application to the Central Region GRMP Program (Contract No. CON0022160), and it may not be relied upon by any other party without KCB's written consent.

KCB has prepared this report in a manner consistent with the level of care, skill and diligence ordinarily provided by members of the same profession for projects of a similar nature at the time and place the services were rendered. KCB makes no warranty, express or implied.

Use of or reliance upon this instrument of service by the Client is subject to the following conditions:

1. The report is to be read in full, with sections or parts of the report relied upon in the context of the whole report.



- 2. The observations, findings and conclusions in this report are based on observed factual data and conditions that existed at the time of the work and should not be relied upon to precisely represent conditions at any other time.
- 3. The report is based on information provided to KCB by the Client or by other parties on behalf of the client (Client-supplied information). KCB has not verified the correctness or accuracy of such information and makes no representations regarding its correctness or accuracy. KCB shall not be responsible to the Client for the consequences of any error or omission contained in Client-supplied information.
- 4. KCB should be consulted regarding the interpretation or application of the findings and recommendations in the report.
- 5. This report is electronically signed and sealed and its electronic form is considered the original. A printed version of the original can be relied upon as a true copy when supplied by the author or when printed from its original electronic file.

Please contact the undersigned if you have any questions or comments regarding this report.

Yours truly,

KLOHN CRIPPEN BERGER LTD.

James Lyons, P.Eng. Civil Engineer

JL:bb

ATTACHMENTS

Figure

Appendix I Instrumentation Plots



Site C067; H21:14, km 12.988 Kneehill Creek Slide Section C – 2025 Fall Readings

FIGURE



Legend

Standpipe Piezometer (SP)

✓ Slope Inclinometer (SI)

H-Pile Wall

NOTES:

1. HORIZONTAL DATUM: NAD83

2. GRID ZONE: UTM Zone 12N

3. IMAGE SOURCE: WORLD IMAGERY, ESRI ARCGIS ONLINE SOURCE DATE SEPTEMBER 7, 2024.

4. INSTRUMENT LOCATIONS ARE APPROXIMATE (NOT SURVEYED).

5. STRIKETHROUGH INDICATES THE INSTRUMENT IS INOPERABLE.





CENTRAL REGION GEOHAZARD RISK MANAGEMENT PROGRAM

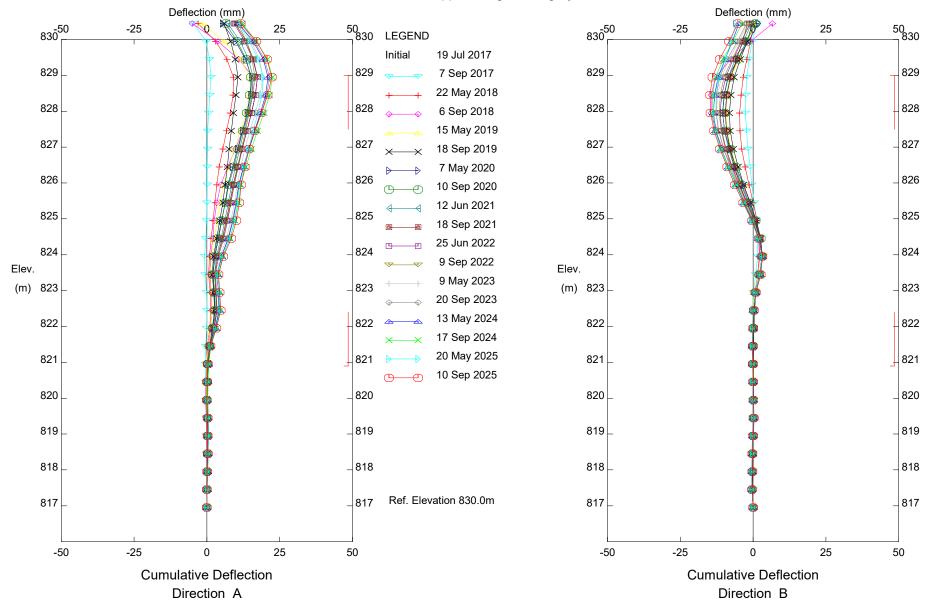
Site Plan C067 - Kneehill Creek Slide Hwy 21:14, km 12.988

SCALE 1:3.000 A05116A02

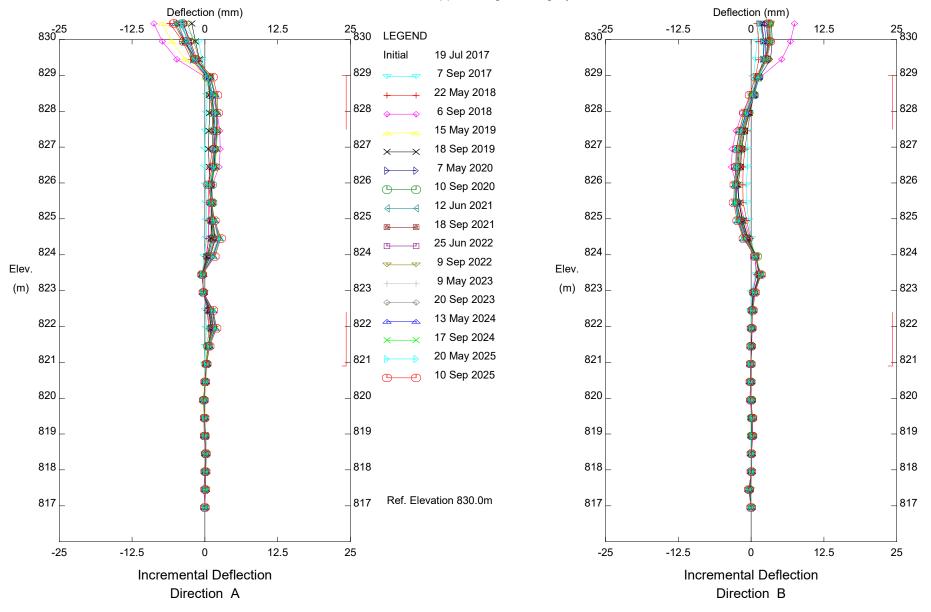
Site C067; H21:14, km 12.988 Kneehill Creek Slide Section C – 2025 Fall Readings

APPENDIX I

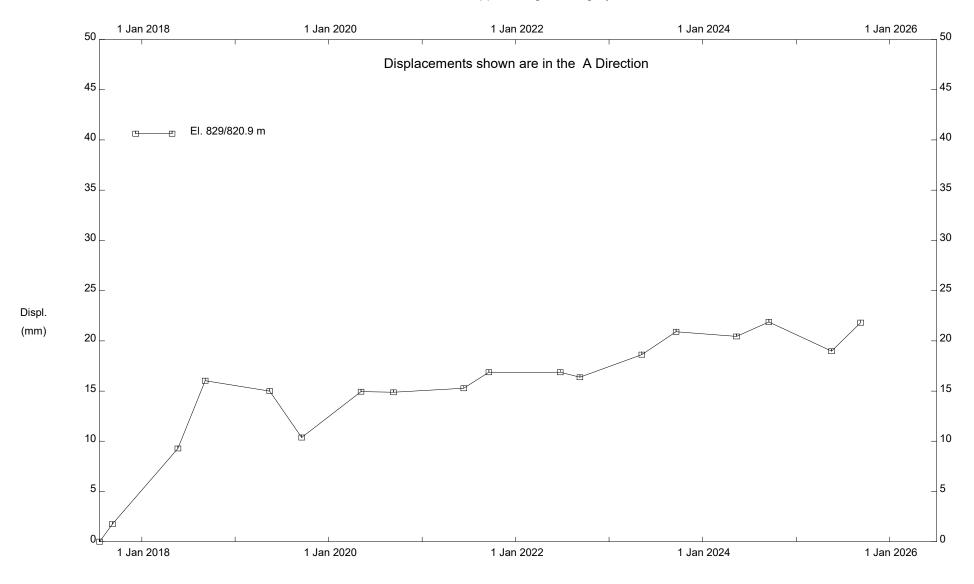
Instrumentation Plots



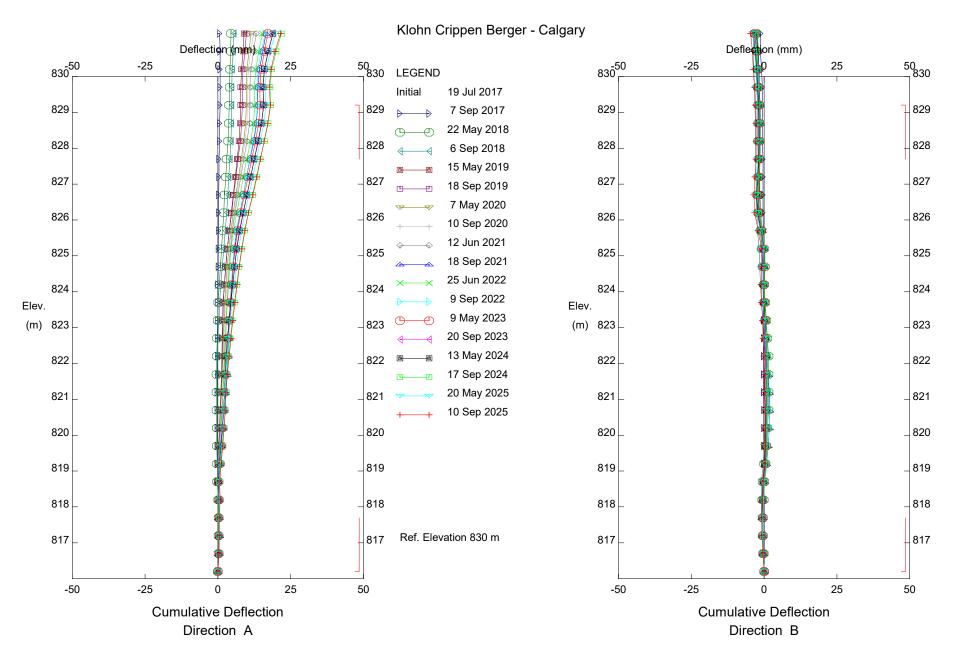
C067; H21:14, Kneehill Creek Slide, Inclinometer SI16-02
Alberta Transportation



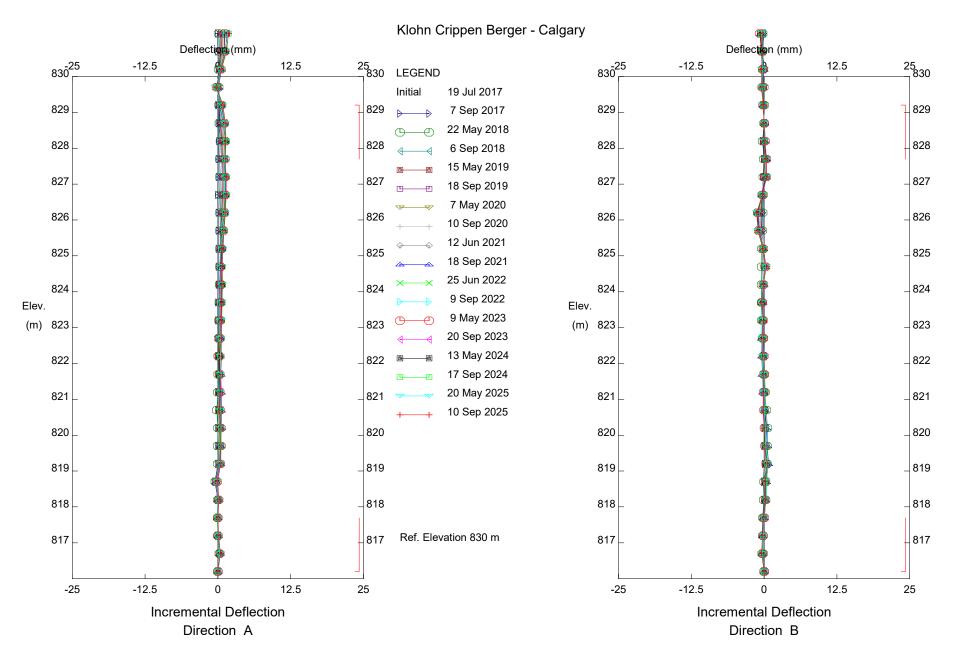
C067; H21:14, Kneehill Creek Slide, Inclinometer SI16-02
Alberta Transportation



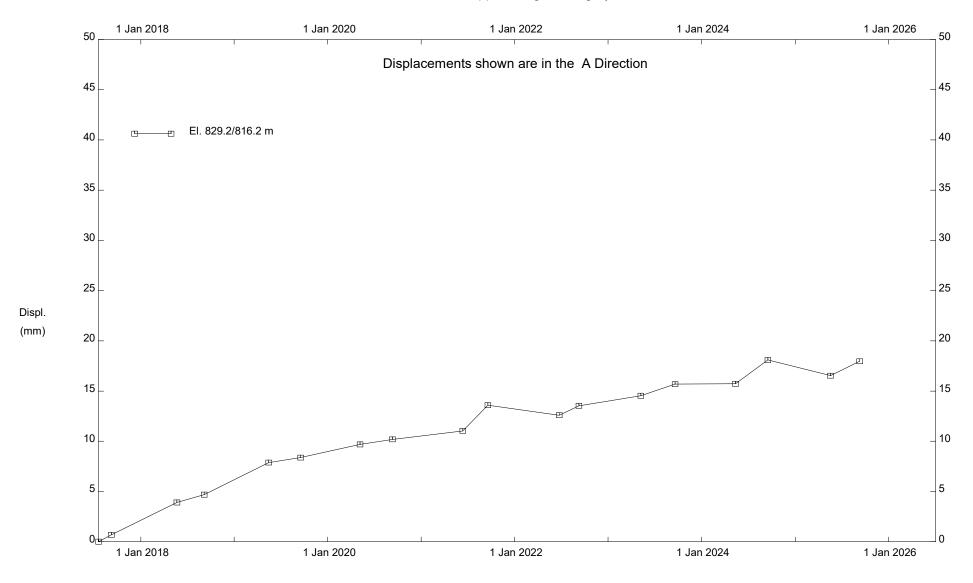
C067; H21:14, Kneehill Creek Slide, Inclinometer SI16-02



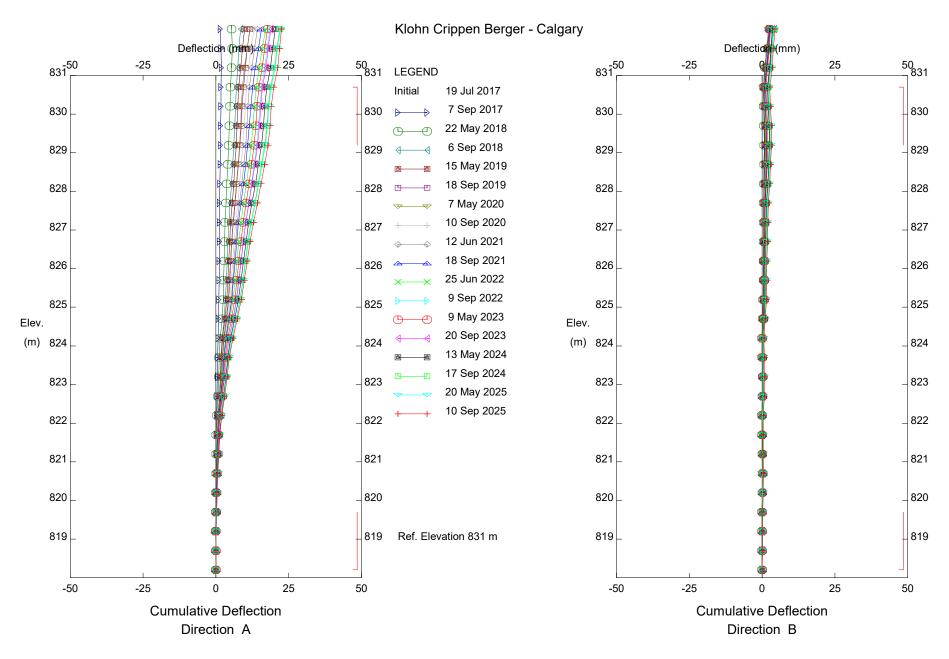
C067; H21:14, Kneehill Creek Slide, Inclinometer SI17-C67-01
Alberta Transportation



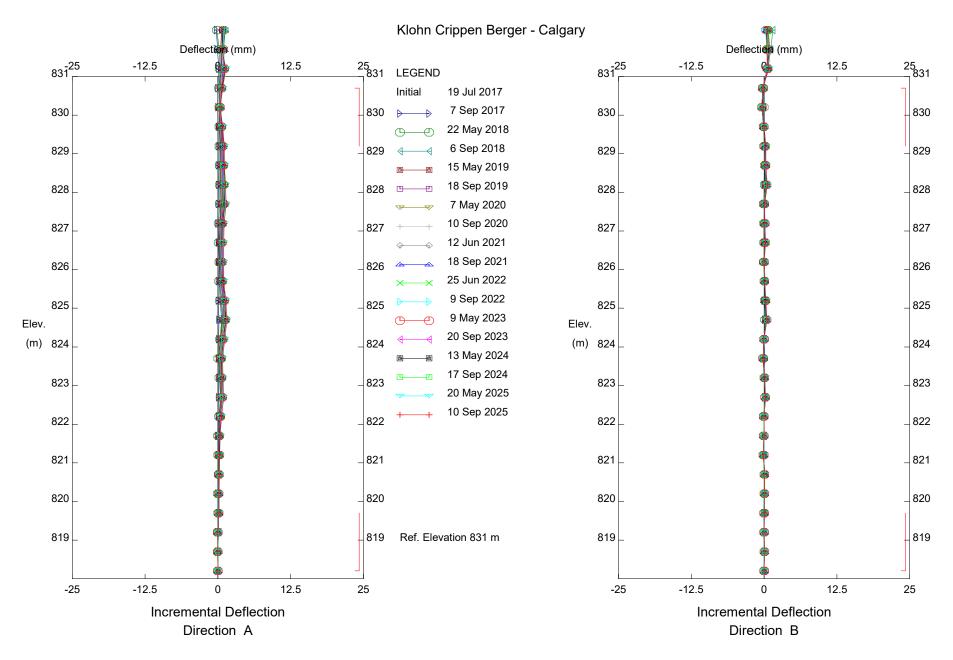
C067; H21:14, Kneehill Creek Slide, Inclinometer SI17-C67-01
Alberta Transportation



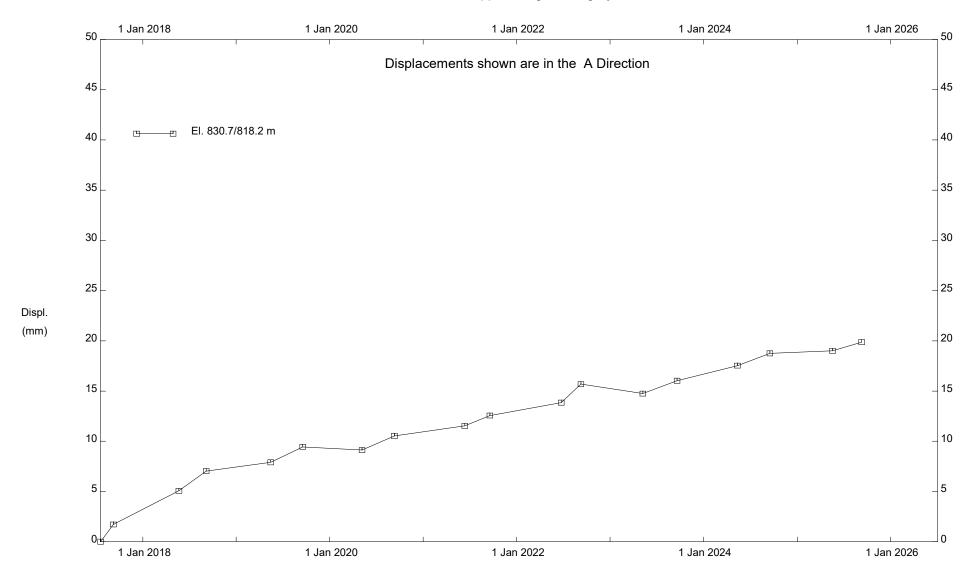
C067; H21:14, Kneehill Creek Slide, Inclinometer SI17-C67-01



C067; H21:14, Kneehill Creek Slide, Inclinometer SI17-C67-02
Alberta Transportation



C067; H21:14, Kneehill Creek Slide, Inclinometer SI17-C67-02
Alberta Transportation



C067; H21:14, Kneehill Creek Slide, Inclinometer SI17-C67-02

Klohn Crippen Berger - Calgary Deflection (mm) Deflection (mm) 50 - 808 808⁵⁰ -25 25 50 __808 808-50 LEGEND 19 Jul 2017 Initial 7 Sep 2017 22 May 2018 806 806 806 806 6 Sep 2018 15 May 2019 18 Sep 2019 7 May 2020 804 804 804 10 Sep 2020 12 Jun 2021 18 Sep 2021 802 802 802 802 25 Jun 2022 7 Oct 2022 Elev. Elev. 9 May 2023 (m) (m) 20 Sep 2023 800 800 800 13 May 2024 17 Sep 2024 20 May 2025 798 798 798 10 Sep 2025 796 796 796 796 Ref. Elevation 808 m 794 794 794 25 0 25 -50 -25 50 -50 -25 50

C067; H21:14, Kneehill Creek Slide, Inclinometer SI17-C67-03
Alberta Transportation

Cumulative Deflection

Direction B

Instrument re-initialized in July 2017 when the SI equipment was changed.

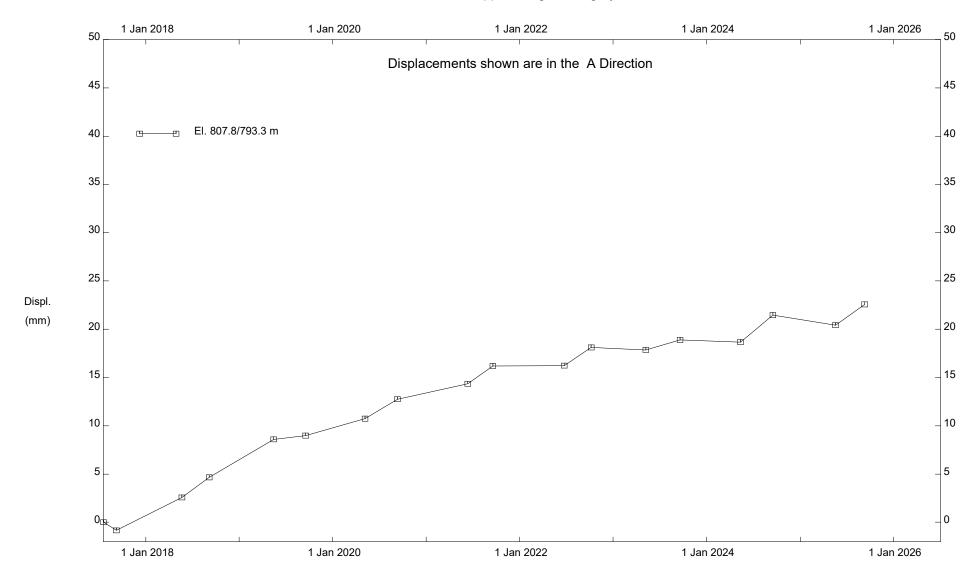
Cumulative Deflection

Direction A

Klohn Crippen Berger - Calgary Deflection (mm) Deflection (mm) 808²⁵ 25 _808 -12.5 25 __808 808-25 -12.5 12.5 12.5 LEGEND 19 Jul 2017 Initial 7 Sep 2017 22 May 2018 806 806 806 806 6 Sep 2018 15 May 2019 18 Sep 2019 7 May 2020 804 804 804 10 Sep 2020 12 Jun 2021 18 Sep 2021 802 802 802 25 Jun 2022 7 Oct 2022 Elev. 9 May 2023 (m) 20 Sep 2023 800 800 13 May 2024 17 Sep 2024 20 May 2025 798 798 10 Sep 2025 796 796 796

_ 802 Elev. (m) 800 798 796 Ref. Elevation 808 m 794 794 794 -25 -12.5 12.5 25 -25 -12.5 0 12.5 25 Incremental Deflection Incremental Deflection Direction A Direction B C067; H21:14, Kneehill Creek Slide, Inclinometer SI17-C67-03

Alberta Transportation



C067; H21:14, Kneehill Creek Slide, Inclinometer SI17-C67-03

Klohn Crippen Berger - Calgary Deflection (mm) Deflection (mm) 25 50 -50 -25 50 -50 -25 LEGEND 19 Jul 2017 Initial 806 806 806 806 7 Sep 2017 22 May 2018 6 Sep 2018 15 May 2019 804 804 804 18 Sep 2019 7 May 2020 10 Sep 2020 802 802 802 12 Jun 2021 18 Sep 2021 25 Jun 2022 7 Oct 2022 800 800 800 9 May 2023 20 Sep 2023 Elev. Elev. 13 May 2024 (m) (m) 798 17 Sep 2024 798 798 20 May 2025 10 Sep 2025 796 796 796 796 794 794 794 794 Ref. Elevation 807 m 25 -50 -25 0 50 -50 -25 0 25 50 **Cumulative Deflection Cumulative Deflection**

C067; H21:14, Kneehill Creek Slide, Inclinometer SI17-C67-04
Alberta Transportation

Direction B

Instrument re-initialized in July 2017 when the SI equipment was changed.

Direction A

Klohn Crippen Berger - Calgary Deflection (mm) Deflection (mm) -25 -12.5 25 -25 -12.5 12.5 25 12.5 **LEGEND** 19 Jul 2017 Initial 806 806 806 806 7 Sep 2017 22 May 2018 6 Sep 2018 15 May 2019 804 804 804 18 Sep 2019 7 May 2020 10 Sep 2020 802 802 802 12 Jun 2021 18 Sep 2021 25 Jun 2022 7 Oct 2022 800 800 800 9 May 2023 20 Sep 2023 Elev. Elev. 13 May 2024 (m) (m) 798 17 Sep 2024 798 798 20 May 2025 10 Sep 2025 796 796 796 796 794 794 794 **1** 794 Ref. Elevation 807 m

C067; H21:14, Kneehill Creek Slide, Inclinometer SI17-C67-04
Alberta Transportation

-25

-12.5

0

Incremental Deflection

Direction B

12.5

25

Instrument re-initialized in July 2017 when the SI equipment was changed.

0

Incremental Deflection

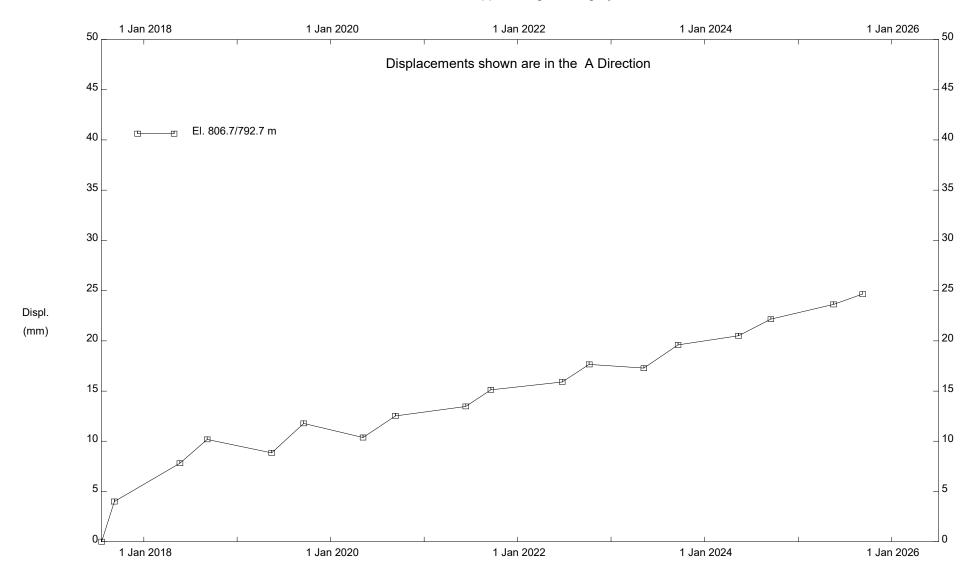
Direction A

12.5

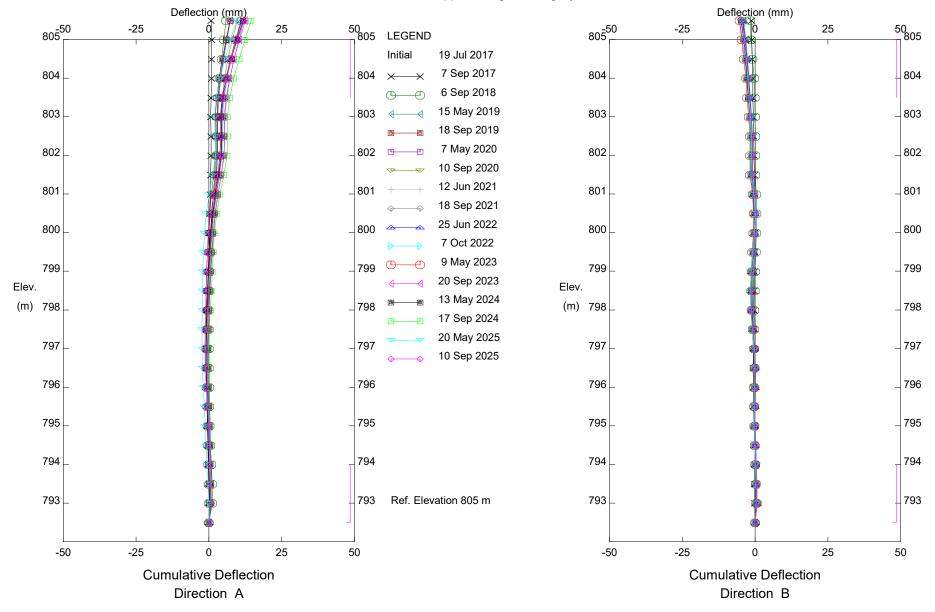
25

-12.5

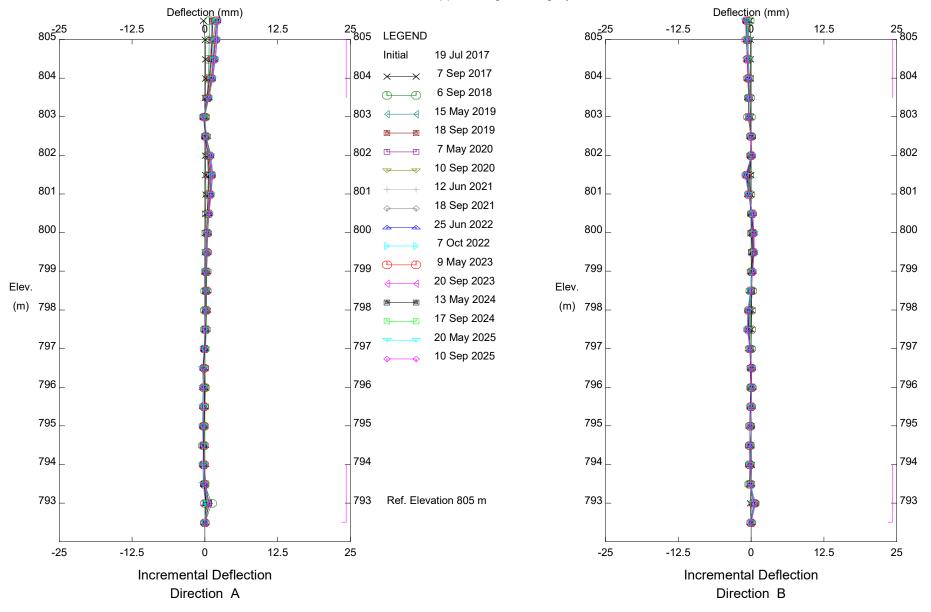
-25



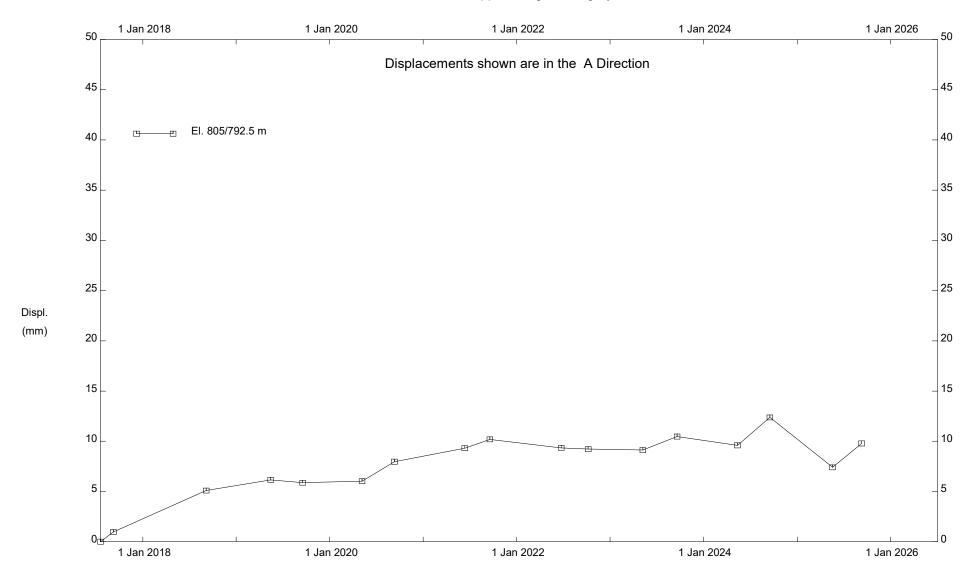
C067; H21:14, Kneehill Creek Slide, Inclinometer SI17-C67-04



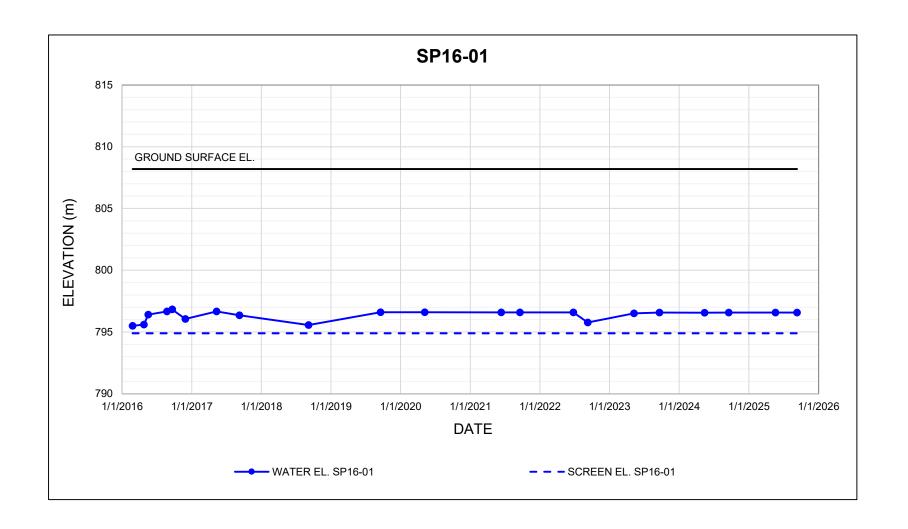
C067; H21:14, Kneehill Creek Slide, Inclinometer SI17-C67-05
Alberta Transportation



C067; H21:14, Kneehill Creek Slide, Inclinometer SI17-C67-05
Alberta Transportation



C067; H21:14, Kneehill Creek Slide, Inclinometer SI17-C67-05



NOTES: 1. GROUND SURFACE ELEVATION OBTAINED WITH A HANDHELD GPS DURING 2017 INSTRUMENT INSTALLATION PROGRAM.

