

Figure 1

Monitoring Plan Locations

Figure 2

Monitoring Results from BHC

Table 1

Monitoring Point Displacement Summary

* * * * *

We appreciate the opportunity to provide geotechnical services for this project. If you have a question regarding this letter, or if we may be of additional service to you, please contact the undersigned.

Respectfully submitted,

GEOTECHNOLOGY, LLC

Tanner N. Merz, E.I.

Engineer

TNM/ALP:dwg/tnm

ANDREAL PRINCE-GAFNEY
RG
2006030119
CSERED GEO

Andrea Prince, P.G. Senior Project Manager



April 28, 2022

Mr. David Olson Streets of West Pryor, LLC 7200 W 132nd Street, #150 Overland Park, Kansas 66213

Re: Long-Term Monitoring Plan Survey Points

Lots 7A (Area A) and 7C (Area B)

Mine Remediation at Streets of West Pryor

Lee's Summit, Missouri

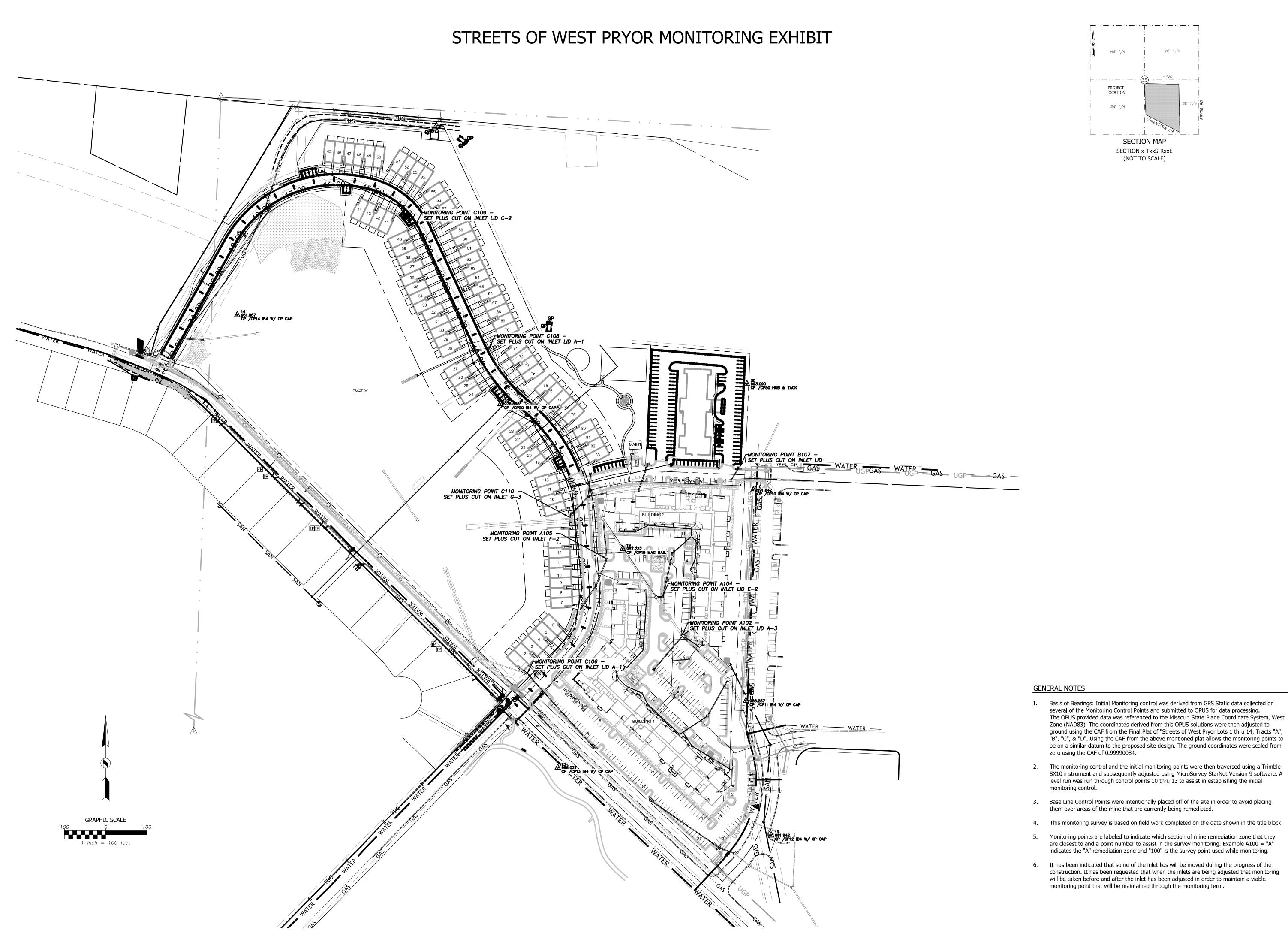
Geotechnology Project No. J035637.02

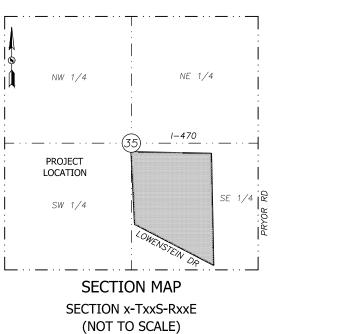
Dear Mr. Olson,

This letter transmits the settlement monitoring performed on the portions of the Streets West of Pryor for April 2022. Monitoring of potential ground movements have been accomplished using a combination of surface monitoring points (SMPs) and survey points established on sanitary and storm sewer inlets and/or manholes. These points continue to be surveyed by BHC, Inc. The network data has been and will continue to be stored, reviewed, and analyzed for potential vertical and differential settlement of infrastructure as related to the mine space. Graphic plots will be provided after a sufficient amount of data is recorded.

Attached to this letter is monitoring data for Monitoring Points as shown on the attached Table 1. Survey reading were obtained on the following dates: October 12, 2021, December 12, 2021, and February 4, 2022 in general accordance with the LTMP. Monitoring Points A101 and A102 were adjusted in the December survey. Monitoring Points A104, A105, and C106 were installed and added to the array in the February survey. Per the LTMP, planned movement of survey monitoring points requires an additional, interim survey. This additional survey was conducted on March 7, 2022. The fifth and most current survey was conducted on April 8, 2022. This event included removing Monitoring Points A100 and A101 and the installation of Monitoring Points B107, C108, C109, and C110. Monitoring Point A102 (Inlet A-3) was adjusted during this monitoring period and a new baseline was established.

At the moment, readings, including new baseline reading, do not indicate that settlement criteria have exceeded the limits established in the LTMP. Therefore, the planned readings will continue every two months for the duration of surface construction. It is anticipated that as earthwork nears completion on the site, sleeved rod monitoring points will be installed and incorporated in the array. The following attachments are included for the current results of the LTMP.







Project No: 028440.00.01 10/13/2021 Field Date: Drawn By: Issue Date: 10/15/2021

OF **1**

Streets of West Pryor Monitoring Spreadsheet

Initial Monitoring Point Locations Points Set Oct. 12, 2021

First Monitoring Results Dec. 12, 2021 Note: Differences Below Between

Oct. 12, 2021 & Dec. 12, 2021

| Point # | Northing | Easting | <u>Elevation</u> | Location | Point # | Northing <u>Difference</u> | Easting <u>Difference</u> | Elevation <u>Difference</u> | Observed <u>Elevation</u> | <u>Location</u> |
|---------|------------------|------------|------------------|-----------|---------|-------------------------------|------------------------------|--------------------------------|------------------------------|-----------------|
| 100 | 1006796.43 | 2812899.00 | 992.88 | Inlet | 2100 | -0.03 | 0.01 | 0.04 | 992.84 | |
| 101 | 1006763.01 | 2812554.02 | 982.86 | Inlet B-1 | 2101 | -2.90 | -2.00 | 0.01 | 982.87 | |
| 102 | 1006414.57 | 2812733.04 | 987.35 | Inlet A-3 | 2102 | 1.55 | -5.17 | -0.02 | 987.33 | |
| 103 | 1006322.29 | 2812351.55 | 988.07 | Inlet A-1 | | | See Note | Below | | |
| | | | | | 104 | 1006511.50 | 2812680.58 | 987.40 | | Inlet E-2 |
| | Value Greater th | an 0.08' | | | 105 | 1006601.94 | 2812547.13 | 986.35 | | Inlet F-2 |
| | | | | | 106 | 1006319.59 | 2812353.76 | 988.24 | | Inlet A-1 |
| | Value Greater th | an 0.04' | | | | | | | | |

Note: Point's 10-14 on previous exhibits are Control Point's for monitoring and have been removed to simplify exhibit. Point's 100-103 are monitoring points as shown on the exhibit. Monitoring Point #100 is on an Inlet @ NE Corner of Site

Value Greater than 0.02'

Note: Lid replaced and mark removed on Inlet A-1 after initial monitoring. Point's 104-106 above are new or replacement monitoring points on the site.

Inlet Lids on Structures B-1 and A-3 have been adjusted since the initial monitoring. The new location of points will now be monitored.

Note: The certification on this exhibit is to verify that the horizontal and vertical positions shown hereon were collected under my direct supervision. This certification does not intend to show anything other what is shown on the exhibit. We are not certifying any reason or cause for the differences in the locations or elevations.



Streets of West Pryor Monitoring Spreadsheet

Second Monitoring Results Feb. 4, 2022

Note: Differences Below Between Oct. 12, 2021 & Feb. 4, 2022 (Point 100)

Dec. 12, 2021 & Feb. 4, 2022 (Points 101, 102, & 104-106)

Third Monitoring Results 2-Mar-22

Note: Differences Below Between

Oct. 12, 2021 & March 2, 2022 (Point 100)

Dec. 12, 2021 & March 2, 2022 (Points 101, 102, & 104-106)

| Point # | Northing Difference | Easting Difference | Elevation Difference | Observed Elevation | Location | Point # | Northing Difference | Easting Difference | Elevation Difference | Observed Elevation | <u>Location</u> |
|---------|------------------------|-----------------------|-------------------------|-----------------------|-----------|---------|------------------------|--------------------|-------------------------|-----------------------|-----------------|
| | Difference | Difference | Difference | Licration | | | Difference | Difference | Difference | Lievation | |
| 3100 | -0.04 | -0.01 | 0.01 | 992.89 | Inlet | 4100 | -0.03 | -0.01 | -0.04 | 992.84 | Inlet |
| 3101 | -0.03 | -0.06 | 0.06 | 982.92 | Inlet B-1 | 4101 | -0.01 | -0.39 | 0.00 | 982.87 | Inlet B-1 |
| 3102 | -0.02 | -0.03 | 0.02 | 987.37 | Inlet A-3 | 4102 | -0.02 | -0.01 | 0.00 | 987.33 | Inlet A-3 |
| | | | | | | | | | | | |
| 3104 | 0.00 | -0.04 | 0.04 | 987.44 | Inlet E-2 | 4104 | 0.01 | -0.08 | 0.00 | 987.40 | Inlet E-2 |
| 3105 | -0.04 | -0.05 | 0.06 | 986.41 | Inlet F-2 | 4105 | 0.00 | 0.01 | 0.01 | 986.36 | Inlet F-2 |
| 3106 | 0.02 | -0.17 | 0.04 | 988.28 | Inlet A-1 | 4106 | 0.04 | -0.10 | -0.03 | 988.21 | Inlet A-1 |
| | | | | | | | | | | | |
| | Not | e: Differences | Below Between | en | | | Not | e: Differences | Below Betwe | een | |
| | D | ec. 12, 2021 8 | & Feb. 4, 2022 | | | | Fe | eb. 4, 2022 & | March 2, 2022 | 2 | |
| | | | | | | | | | | | |
| 3100 | -0.01 | -0.02 | 0.05 | 992.89 | | 4100 | 0.01 | 0.00 | -0.05 | 992.84 | |
| 3101 | -0.03 | -0.06 | 0.05 | 982.92 | | 4101 | 0.02 | -0.33 | -0.05 | 982.87 | |
| 3102 | -0.02 | -0.03 | 0.04 | 987.37 | | 4102 | 0.00 | 0.02 | -0.04 | 987.33 | |
| | | | | | | | | | | | |
| | | | | | | 4104 | 0.01 | -0.05 | -0.04 | 987.40 | |

4105

4106

0.05

0.02

0.06

0.06

-0.05

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986.36



Monitoring Point Displacement Summary Streets West of Pryor Lee's Summit Missouri

Geotechnology Project No. 1035637.02

| Disn | lacement | for | A100 |
|------|----------|-----|------|
| | | | |

| Date | Elevation Change (ft) | Northing Change (ft) | Easting Change (ft) | Northing (ft) | Easting (ft) | Elevation (ft) | Time Elapsed (yr) | Elevation Change (in) | Total Elevation Change (in) | Rate (in/yr) | Remarks |
|------------|-----------------------|----------------------|---------------------|---------------|--------------|----------------|-------------------|-----------------------|-----------------------------|--------------|--|
| 10/12/2021 | NA | NA | NA | 1006796.43 | 2812899 | 992.88 | NA | NA | NA | NA | |
| 12/12/2021 | -0.04 | -0.03 | 0.01 | 1006796.40 | 2812899.01 | 992.84 | 0.17 | -0.48 | -0.48 | -2.87 | |
| 2/4/2022 | 0.05 | -0.01 | -0.02 | 1006796.39 | 2812898.99 | 992.89 | 0.15 | 0.60 | 0.12 | 4.06 | |
| 3/2/2022 | -0.05 | 0.01 | 0.00 | 1006796.40 | 2812898.99 | 992.84 | 0.07 | -0.60 | -0.48 | -8.42 | Inlet point moved, new baseline set |
| 4/8/2022 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | Monitor point removed due to adjusting inlet |

Displacement for A101

| Date | Elevation Change (ft) | Northing Change (ft) | Easting Change (ft) | Northing | Easting | Elevation (ft) | Time Elapsed (yr) | Elevation Change (in) | Total Elevation Change (in) | Rate (in/yr) | Remarks |
|------------|-----------------------|----------------------|---------------------|------------|------------|----------------|-------------------|-----------------------|-----------------------------|--------------|--|
| 10/12/2021 | NA | NA | NA | 1006763.01 | 2812554.02 | 982.86 | NA | NA | NA | NA | |
| 12/12/2021 | 0.01 | -2.90 | -2.00 | 1006760.11 | 2812552.02 | 982.87 | 0.17 | 0.12 | 0.12 | 0.72 | Inlet lid adjusted after initial monitoring |
| 2/4/2022 | 0.05 | -0.03 | -0.06 | 1006760.08 | 2812551.96 | 982.92 | 0.15 | 0.60 | 0.72 | 4.06 | |
| 3/2/2022 | -0.05 | 0.02 | -0.33 | 1006760.10 | 2812551.63 | 982.87 | 0.07 | -0.60 | 0.12 | -8.42 | Inlet point moved, new baseline set |
| 4/8/2022 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | Monitor point removed due to adjusting inlet |

Displacement for A102

| Date | Elevation Change (ft) | Northing Change (ft) | Easting Change (ft) | Northing | Easting | Elevation (ft) | Time Elapsed (yr) | Elevation Change (in) | Total Elevation Change (in) | Rate (in/yr) | Remarks | |
|------------|-----------------------|----------------------|---------------------|------------|------------|----------------|-------------------|-----------------------|-----------------------------|--------------|---|--|
| 10/12/2021 | NA | NA | NA | 1006414.57 | 2812733.04 | 987.35 | NA | NA | NA | NA | | |
| 12/12/2021 | -0.02 | -1.55 | 5.17 | 1006413.02 | 2812738.21 | 987.33 | 0.17 | -0.24 | -0.24 | -1.44 | Inlet lid adjusted after initial monitoring | |
| 2/4/2022 | 0.04 | -0.02 | -0.03 | 1006413.00 | 2812738.18 | 987.37 | 0.15 | 0.48 | 0.24 | 3.24 | | |
| 3/2/2022 | -0.04 | 0.00 | 0.02 | 1006413.00 | 2812738.20 | 987.33 | 0.07 | -0.48 | -0.24 | -6.74 | Inlet point moved, new baseline set | |
| 4/8/2022 | 1.11 | -3.33 | 1.85 | 1006412.77 | 2812729.71 | 988.44 | 0.10 | 13.32 | 13.08 | 131.4 | Inlet A-3 shifted since last monitoring | |

Displacement for C103

| | Date | Elevation Change (ft) | Northing Change (ft) | Easting Change (ft) | Northing | Easting | Elevation (ft) | Time Elapsed (yr) | Elevation Change (in) | Total Elevation Change (in) | Rate (in/yr) | Remarks |
|-----|---------|-----------------------|----------------------|---------------------|------------|------------|----------------|-------------------|-----------------------|-----------------------------|--------------|----------------------------------|
| 10/ | 12/2021 | NA | NA | NA | 1006322.29 | 2812351.55 | 988.07 | NA | NA | NA | NA | |
| 12/ | 21/2021 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | Removed after initial monitoring |

Displacement for A104

| Date | Elevation Change (ft) | Northing Change (ft) | Easting Change (ft) | Northing | Easting | Elevation (ft) | Time Elapsed (yr) | Elevation Change (in) | Total Elevation Change (in) | Rate (in/yr) | Remarks |
|------------|-----------------------|----------------------|---------------------|------------|------------|----------------|-------------------|-----------------------|-----------------------------|--------------|-------------------------------------|
| 12/12/2021 | NA | NA | NA | 1006511.50 | 2812680.58 | 987.40 | NA | NA | NA | NA | |
| 2/4/2022 | 0.04 | 0.00 | -0.04 | 1006511.50 | 2812680.54 | 987.44 | 0.15 | 0.48 | 0.48 | 3.24 | |
| 3/2/2022 | -0.04 | 0.01 | -0.05 | 1006511.51 | 2812680.49 | 987.40 | 0.07 | -0.48 | 0.00 | -6.74 | Inlet point moved, new baseline set |
| 4/8/2022 | 0.04 | -0.01 | 0.04 | 1006511.50 | 2812680.53 | 987.44 | 0.10 | 0.48 | 0.48 | 4.74 | |

Displacement for A105

| Date | Elevation Change (ft) | Northing Change (ft) | Easting Change (ft) | Northing | Easting | Elevation (ft) | Time Elapsed (yr) | Elevation Change (in) | Total Elevation Change (in) | Rate (in/yr) | Remarks |
|------------|-----------------------|----------------------|---------------------|------------|------------|----------------|-------------------|-----------------------|-----------------------------|--------------|-------------------------------------|
| 12/12/2021 | NA | NA | NA | 1006601.94 | 2812547.13 | 986.35 | NA | NA | NA | NA | |
| 2/4/2022 | 0.06 | -0.04 | -0.05 | 1006601.90 | 2812547.08 | 986.41 | 0.15 | 0.72 | 0.72 | 4.87 | |
| 3/2/2022 | -0.05 | 0.05 | 0.06 | 1006601.95 | 2812547.14 | 986.36 | 0.07 | -0.60 | 0.12 | -8.42 | Inlet point moved, new baseline set |
| 4/8/2022 | 0.01 | -0.01 | -0.02 | 1006601.94 | 2812547.12 | 986.37 | 0.10 | 0.12 | 0.12 | 1.18 | |

Displacement for C106

| Date | Elevation Change (ft) | Northing Change (ft) | Easting Change (ft) | Northing | Easting | Elevation (ft) | Time Elapsed (yr) | Elevation Change (in) | Total Elevation Change (in) | Rate (in/yr) | Remarks |
|------------|-----------------------|----------------------|---------------------|------------|------------|----------------|-------------------|-----------------------|-----------------------------|--------------|-------------------------------------|
| 12/12/2021 | NA | NA | NA | 1006319.59 | 2812353.76 | 988.24 | NA | NA | NA | NA | |
| 2/4/2022 | 0.04 | 0.02 | -0.17 | 1006319.61 | 2812353.59 | 988.28 | 0.15 | 0.48 | 0.48 | 3.24 | |
| 3/2/2022 | -0.07 | 0.02 | 0.06 | 1006319.63 | 2812353.65 | 988.21 | 0.07 | -0.84 | -0.36 | -11.79 | Inlet point moved, new baseline set |
| 4/8/2022 | 0.03 | -0.03 | 0.02 | 1006319.60 | 2812353.67 | 988.24 | 0.10 | 0.36 | 0.00 | 3.55 | |

*Negative values indicate a decrease in elevation

**Graphs to be provided after obtaining a sufficient amount of survey recordings

Streets of West Pryor Monitoring Spreadsheet

Fourth Monitoring Results 4/8/2022

Note: Differences Below Between Dec. 12, 2021 & April 8, 2022

| Point # | Northing | Easting | Elevation | Observed | Location |
|---------|-------------------|--------------------------------|-------------------|------------------|-----------------|
| | <u>Difference</u> | <u>Difference</u> | <u>Difference</u> | Elevation | |
| | | djusted- Remo djusted- Remo | | ŭ | |
| 5102 | -3.35 | 1.84 | 1.10 | 988.44 | Inlet A-3 |
| Base | d on above res | sults, Inlet A-3 | has shifted si | nce last monit | oring |
| 5104 | 0.00 | -0.04 | 0.04 | 987.44 | Inlet E-2 |
| 5105 | -0.01 | -0.02 | 0.02 | 986.37 | Inlet F-2 |
| 5106 | 0.02 | -0.09 | 0.00 | 988.24 | Inlet A-1 |
| 107 | 1006824.68 | 2812868.80 | 990.01 | | |
| 108 | 1007111.59 | 2812258.87 | 979.05 | | |
| 109 | 1007411.19 | 2812081.44 | 975.28 | | |
| 110 | 1006703.64 | 2812454.33 | 984.07 | | |

Note: Point's 107-110 above are new or replacement monitoring points on the site.

Inlet Adjusted- Removed from Monitoring Inlet Adjusted- Removed from Monitoring

| 5102 | -3.33 | 1.85 | 1.10 | 988.44 |
|------|-------|-------|------|--------|
| 5104 | -0.01 | 0.04 | 0.04 | 987.44 |
| 5105 | -0.01 | -0.02 | 0.01 | 986.37 |
| 5106 | -0.03 | 0.02 | 0.03 | 988.24 |

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