



May 12, 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), 7B (Area C), 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 results of settlement monitoring performed on the portions of the Streets West of Pryor project for May 2022. Monitoring of potential ground movements has 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. Additional data points will be added to the monitoring record, as they are collected, and updated results of settlement monitoring will be provided. Graphic plots will be provided after a sufficient amount of data is recorded for each monitoring point.

Attached to this letter is monitoring data for Monitoring Points as shown on the attached Table 1. Current survey readings were obtained on May 9, 2022 in general accordance with the Long Term Monitoring Plan (LTMP). Table 1 documents the monitoring events to date. Monitoring Point C111 was installed and added to the array in the May survey. During this survey, vertical readings were obtained on all points; these readings will be obtained and reported on each subsequent survey. Based on current construction schedules, it is anticipated that installation of sleeved rod monuments will commence in the next 30 to 60 days.

As of the current set of data, including the new baseline reading, the monitoring results do not indicate that settlement has exceeded the limits established in the LTMP. Therefore, the planned readings will continue every two months for the duration of surface construction. The following attachments are included for the current results of the LTMP.

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

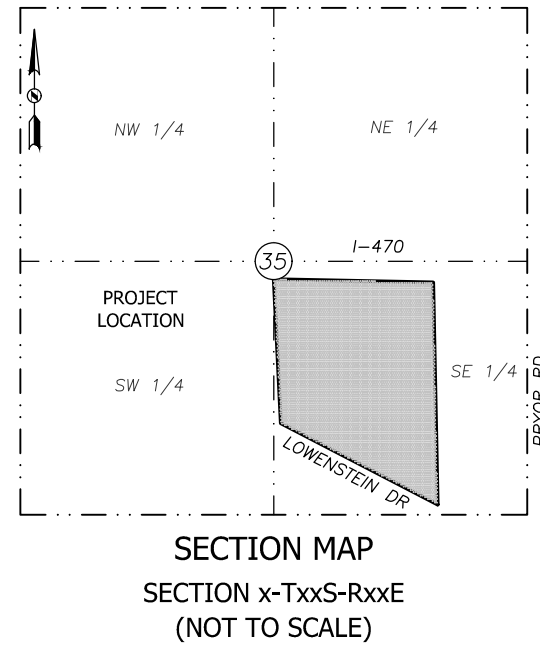
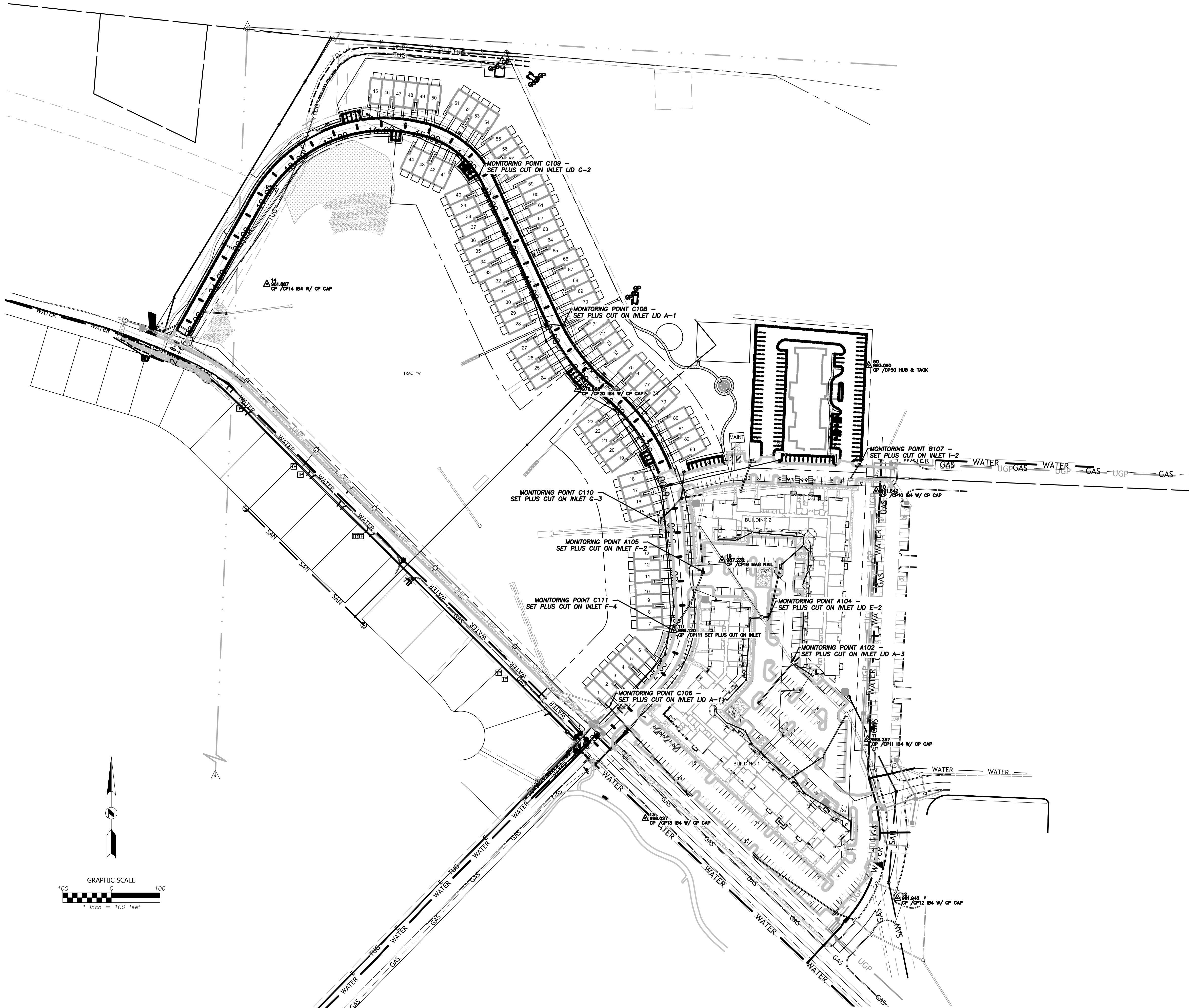
TNM/ALP:



Andrea Prince, P.G.
Senior Project Manager

May 10, 2022 -- 11:47am Plotted by: matthew.scheppmann I:\028440 Streets of West Pryor Mine Scan\DWG\SURVEY\028440-SPRY-MONITOR-EXHIBT.dwg

STREETS OF WEST PRYOR MONITORING EXHIBIT



GENERAL NOTES

1. Basis of Bearings: Initial Monitoring control was derived from GPS Static data collected on several of the Monitoring Control Points and submitted to OPUS for data processing. The OPUS provided data was referenced to the Missouri State Plane Coordinate System, West Zone (NAD83). The coordinates derived from this OPUS solutions were then adjusted to ground using the CAF from the Final Plat of "Streets of West Pryor Lots 1 thru 14, Tracts "A", "B", "C", & "D". Using the CAF from the above mentioned plat allows the monitoring points to be on a similar datum to the proposed site design. The ground coordinates were scaled from zero using the CAF of 0.999990084.
2. The monitoring control and the initial monitoring points were then traversed using a Trimble SX10 instrument and subsequently adjusted using MicroSurvey StarNet Version 9 software. A level run was run through control points 10 thru 13 to assist in establishing the initial monitoring control.
3. Base Line Control Points were intentionally placed off of the site in order to avoid placing them over areas of the mine that are currently being remediated.
4. This monitoring survey is based on field work completed on the date shown in the title block.
5. Monitoring points are labeled to indicate which section of mine remediation zone that they are closest to and a point number to assist in the survey monitoring. Example A100 = "A" indicates the "A" remediation zone and "100" is the survey point used while monitoring.
6. It has been indicated that some of the inlet lids will be moved during the progress of the construction. It has been requested that when the inlets are being adjusted that monitoring will be taken before and after the inlet has been adjusted in order to maintain a viable monitoring point that will be maintained through the monitoring term.

Project:										Client:										BKK										Rev.										Date										Description										Drawn										Checked																																																											
Streets of West Pryor Monitoring Exhibit										Monarch Acquisitions LLC										CIVIL ENGINEERING / SURVEYING / UTILITIES										05/09/2022										Updated Monitoring Points and Placement of Additional Monuments																																																																																									
Lots 7A, 7B, and 7C										Dave Olson										712 State Avenue, Kansas City, KS 66101										04/12/2022										Updated Monitoring Points and Placement of Additional Monuments																																																																																									
Section 35, Township 48, Range 32										P.O. Box 24302										Phone: (913) 371-5300										12/16/2021										Second Monitoring & Placement of Additional Monitoring Points																																																																																									
Lee's Summit, Jackson County, Missouri										Overlaon Park, KS 66283										BKK is a trademark of Bingham, Boush & Company P.A.																																																																																																													
Project No: 028440.00.01																																																																																																																																	
Field Crew: MS, DH																																																																																																																																	
Field Date: 10/13/2021																																																																																																																																	
Drawn By: MS																																																																																																																																	
Issue Date: 10/15/2021																																																																																																																																	
Sheet: 1 OF 1																																																																																																																																	

Streets of West Pryor Monitoring Spreadsheet

Initial Monitoring Point Locations Points Set Oct. 12, 2021

<u>Point #</u>	<u>Northing</u>	<u>Easting</u>	<u>Elevation</u>	<u>Location</u>
100	1006796.43	2812899.00	992.88	Inlet
101	1006763.01	2812554.02	982.86	Inlet B-1
102	1006414.57	2812733.04	987.35	Inlet A-3
103	1006322.29	2812351.55	988.07	Inlet A-1

Value Greater than 0.08'

Value Greater than 0.04'

Value Greater than 0.02'

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

First Monitoring Results Dec. 12, 2021

**Note: Differences Below Between
Oct. 12, 2021 & Dec. 12, 2021**

<u>Point #</u>	<u>Northing Difference</u>	<u>Easting Difference</u>	<u>Elevation Difference</u>	<u>Observed Elevation</u>	<u>Location</u>
2100	-0.03	0.01	0.04	992.84	
2101	-2.90	-2.00	0.01	982.87	
2102	1.55	-5.17	-0.02	987.33	
	See Note Below				
104	1006511.50	2812680.58	987.40		Inlet E-2
105	1006601.94	2812547.13	986.35		Inlet F-2
106	1006319.59	2812353.76	988.24		Inlet A-1

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)

Point #	Northing Difference	Easting Difference	Elevation Difference	Observed Elevation	Location
3100	-0.04	-0.01	0.01	992.89	Inlet
3101	-0.03	-0.06	0.06	982.92	Inlet B-1
3102	-0.02	-0.03	0.02	987.37	Inlet A-3
3104	0.00	-0.04	0.04	987.44	Inlet E-2
3105	-0.04	-0.05	0.06	986.41	Inlet F-2
3106	0.02	-0.17	0.04	988.28	Inlet A-1

Note: Differences Below Between

Dec. 12, 2021 & Feb. 4, 2022

3100	-0.01	-0.02	0.05	992.89
3101	-0.03	-0.06	0.05	982.92
3102	-0.02	-0.03	0.04	987.37

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
4100	-0.03	-0.01	-0.04	992.84	Inlet
4101	-0.01	-0.39	0.00	982.87	Inlet B-1
4102	-0.02	-0.01	0.00	987.33	Inlet A-3
4104	0.01	-0.08	0.00	987.40	Inlet E-2
4105	0.00	0.01	0.01	986.36	Inlet F-2
4106	0.04	-0.10	-0.03	988.21	Inlet A-1

Note: Differences Below Between

Feb. 4, 2022 & March 2, 2022

4100	0.01	0.00	-0.05	992.84
4101	0.02	-0.33	-0.05	982.87
4102	0.00	0.02	-0.04	987.33
4104	0.01	-0.05	-0.04	987.40
4105	0.05	0.06	-0.05	986.36
4106	0.02	0.06	-0.07	988.21

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

Fourth Monitoring Results

4/8/2022

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

Point #	Northing Difference	Easting Difference	Elevation Difference	Observed Elevation	Location
Inlet Adjusted- Removed from Monitoring					
Inlet Adjusted- Removed from Monitoring					
5102	-3.35	1.84	1.10	988.44	Inlet A-3
Based on above results, Inlet A-3 has shifted since last monitoring					
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		Inlet I-2
108	1007111.59	2812258.87	979.05		Inlet A-1
109	1007411.19	2812081.44	975.28		Inlet C-2
110	1006703.64	2812454.33	984.07		Inlet G-3

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



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

Fifth Monitoring Results

5/9/2022

Note: Differences Below Between

Dec. 12, 2021 & May 9, 2022 (Points 104 - 106)

April 8, 2022 & May 9, 2022 (Points 102 & 107 - 110)

Point #	Northing	Easting	Elevation Difference	Observed Elevation	Location
6102	See Note Below		0.01	988.44	Inlet A-3
6104	See Note Below		0.01	987.41	Inlet E-2
6105	See Note Below		0.01	986.36	Inlet F-2
6106	See Note Below		0.03	988.27	Inlet A-1
6107	See Note Below		-0.02	989.99	Inlet I-2
6108	See Note Below		0.03	979.08	Inlet A-1
6109	See Note Below		0.00	975.28	Inlet C-2
6110	See Note Below		0.00	984.07	Inlet G-3
111	1006482.19	2812485.01	986.12		Inlet F-4

Note: Point #111 is a new monitoring point.

Note: Differences Below Between

April 8, 2022 & May 9, 2022

6104	-0.03	987.41	Inlet E-2
6105	-0.01	986.36	Inlet F-2
6106	0.03	988.27	Inlet A-1



Note: This monitoring exhibit represents a shift in the data collection method for the monitoring at the Streets of West Pryor site. Long term monitoring will concentrate on the vertical differences between observations, unless otherwise noted.

Note: The certification on this exhibit is to verify the 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 elevations.



Monitoring Point Displacement Summary
Streets West of Pryor
Lee's Summit Missouri
Geotechnology Project No. J035637.02

Displacement for A100

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	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	131.40	Inlet A-3 shifted since last monitoring
5/9/2022	0	NA	NA	NA	NA	988.44	0.08	0.00	13.08	0.00	Switch to vertical monitoring only

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	
5/9/2022	-0.03	NA	NA	NA	NA	987.41	0.08	-0.36	0.12	-4.24	Switch to vertical monitoring only

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	0.24	1.18	
5/9/2022	-0.01	NA	NA	NA	NA	986.36	0.08	-0.12	0.12	-1.41	Switch to vertical monitoring only

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	
5/9/2022	0.03	NA	NA	NA	NA	988.27	0.08	0.36	0.36	4.24	Switch to vertical monitoring only

Displacement for B107

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
4/8/2022	NA	NA	NA	1006824.68	2812868.80	990.01	NA	NA	NA	NA	
5/9/2022	-0.02	NA	NA	NA	NA	989.99	0.08	-0.24	-0.24	-2.83	Switch to vertical monitoring only

Displacement for C108

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
4/8/2022	NA	NA	NA	1007111.59	2812258.87	979.05	NA	NA	NA	NA	
5/9/2022	0.03	NA	NA	NA	NA	979.08	0.08	0.36	0.36	4.24	Switch to vertical monitoring only

Displacement for C109

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
4/8/2022	NA	NA	NA	1007411.19	2812081.44	975.28	NA	NA	NA	NA	
5/9/2022	0	NA	NA	NA	NA	975.28	0.08	0.00	0.00	0.00	Switch to vertical monitoring only

Displacement for C110

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
4/8/2022	NA	NA	NA	1006703.64	2812454.33	984.07	NA	NA	NA	NA	
5/9/2022	0	NA	NA	NA	NA	984.07	0.08	0.00	0	0.00	Switch to vertical monitoring only



Monitoring Point Displacement Summary
Streets West of Pryor
Lee's Summit Missouri
Geotechnology Project No. J035637.02

Displacement for C111

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
5/9/2022	NA	NA	NA	1006482.19	2812485.01	986.12	NA	NA	NA	NA	Monitor point installed

*Negative values indicate a decrease in elevation

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