

March 1, 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,

According to the Long-Term Monitoring Plan (LTMP) in the *Revised Mine Remediation Plan* dated May 6, 2021, settlement monitoring is to be performed on the portions of the Streets West of Pryor development that are underlain by a limestone mine. 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 comprise a portion of the survey monitoring network and have been located by a Missouri licensed surveyor, 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. Additional points will be added as construction of surface development progresses.

Attached to this letter is the base survey for surface monitoring for the referenced lots and monitor results for Monitoring Points A100, A101, A102, C103, A104, A105, and C106. The initial survey was performed on October 12, 2021, and a second survey was conducted on December 12, 2021, in general accordance with the LTMP. The third survey was conducted on February 4, 2022 and included the installation of additional Monitoring Points A104, A105, and C106. These additional points are shown on Figure 1. Readings indicate that current settlement does not exceed the criteria in the LTMP. Therefore, the planned readings will continue every two months for the duration of surface construction. Additional monitoring points will be incorporated into the survey array as monitoring progresses. The following attachments are included for current results of the LTMP.

Figure 1 - Monitoring Plan Locations
Figure 2 - Monitoring Results from BHC

Table 1 - Monitoring Point Displacement Summary

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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

Andrea Prince, P.G. Senior Project Manager

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 #	<u>Northing</u>	Easting	<u>Elevation</u>	<u>Location</u>	Point #	Northing <u>Difference</u>	Easting <u>Difference</u>	Elevation Difference	Observed Elevation	Location
10	1006769.45	2812901.61	991.64							
11	1006257.74	2812883.60	988.26							
12	1005931.23	2812945.04	981.94							
13	1006095.56	2812426.36	996.03							
14	1007194.74	2811647.86	961.89							
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
N-man-					106	1006319.59	2812353.76	988.24		Inlet A-1
	Value Greater th	an 0.04'								

Note: Point's 10-14 above are Control Point's for monitoring. 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 marked 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.



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)

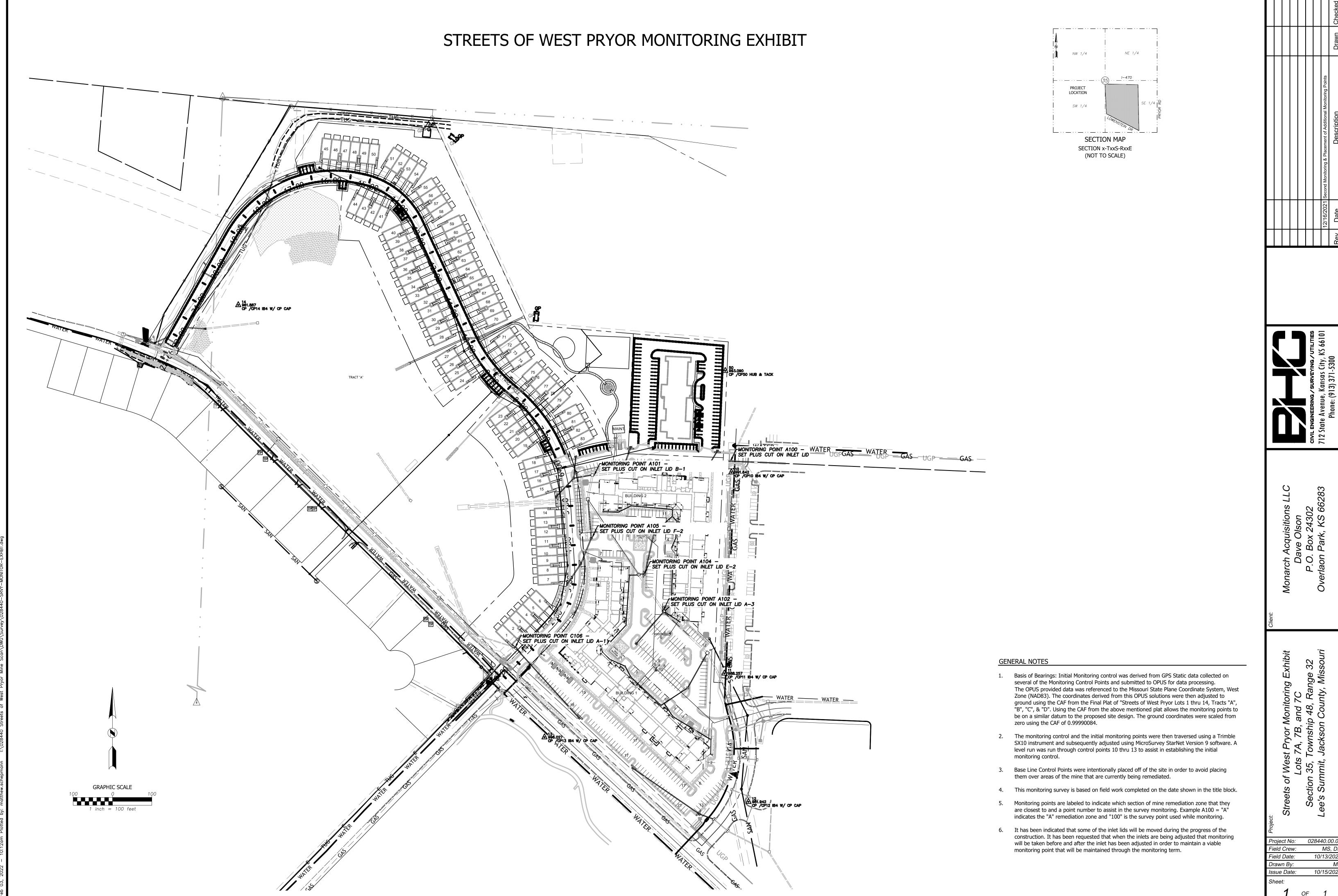
Point #	Northing <u>Difference</u>	Easting <u>Difference</u>	Elevation <u>Difference</u>	Observed <u>Elevation</u>	<u>Location</u>
3100	-0.04	-0.01	0.01	992.89	Inlet
3101	-0.03	-0.06	0.06	982.92	Inlet B-1
3102	-0.02	-0.03	0.02	987.37	Inlet A-3
3104	0.00	-0.04	0.04	987.44	Inlet E-2
3105	-0.04	-0.05	0.06	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

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.





028440.00.0 MS, DH 10/13/202 10/15/202



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

Geotechnology Project No. J035637.02

Displacement for A100

Date	Elevation Change (ft)	Total Northing Change (ft)	Total Easting Change (ft)	Northing (ft)	Easting (ft)	Elevation (ft)	Time Elapsed (yr)	Elevation Change (in)	Total Elevation Change (in)	Rate (in/yr)
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	0.19	-0.48	-0.48	-2.50
2/4/2022	0.05	-0.01	-0.02	1006796.39	2812898.99	992.89	0.12	0.60	0.12	4.87

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)
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	0.19	0.12	0.12	0.63
2/4/2022	0.05	-0.03	-0.06	1006760.08	2812551.96	982.92	0.12	0.60	0.60	4.87

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)
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	0.19	-0.24	-0.02	-0.10
2/4/2022	0.04	-0.02	-0.03	1006413.00	2812738.18	987.37	0.12	0.48	0.04	3.89

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)
10/12/2021	NA	NA	NA	1006322.29	2812351.55	988.07	NA	NA	NA	NA
12/21/2021	Removed after initial monitoring	NA	NA	NA	NA	NA	NA	NA	NA	NA

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)
12/21/20	1 NA	NA	NA	1006511.50	2812680.58	987.40	NA	NA	NA	NA
2/4/202	0.04	0.00	-0.04	1006511.50	2812680.54	987.44	0.12	0.48	0.48	3.89

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)
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	0.12	0.72	0.06	5.84

Displacement for C106

12/12/2021 NA NA NA 1006319.59 2812353.76 988.24 NA NA NA NA NA 2/4/2022 0.04 0.02 -0.17 1006319.61 2812353.59 988.28 0.12 0.48 0.04	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)
2/4/2022 0.04 0.02 -0.17 1006319.61 2812353.59 988.28 0.12 0.48 0.04	12/12/2021	NA	NA	NA	1006319.59	2812353.76	988.24	NA	NA	NA	NA
4,4	2/4/2022	0.04	0.02	-0.17	1006319.61	2812353.59	988.28	0.12	0.48	0.04	3.89

^{*} negative values indicate a decrease in elevation

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