INVENTUM ENGINEERING, PC

April 14, 2026

Megan Kuczka
Project Manager
New York State Department of Environmental Conservation
270 Michigan Ave
Buffalo, NY 14203-2915.

Re: Marine Mattress Monitoring Survey and Inspection Results
Site Name: Buffalo Color Corporation Site Area A
Site No.: C915230
Buffalo, New York 14210

Dear Ms. Kuczka:

Inventum Engineering, P.C. (Inventum) conducted survey and inspection of the marine mattress for the former Buffalo Color Corporation (BCC) Area A Brownfield Cleanup Program (BCP) Site (Site No. C915230). Survey data at the marine mattress monitoring points SI-01, SI-02, and SI-03 (Table 1a and 1b) showed greater than 1-inch movement between successive surveys (December 2024 and June 2025). In accordance with the Site Management Plan (SMP), the marine mattress monitoring points were surveyed monthly from November 2025 through April 2026. In addition, visual inspection of the marine mattress was conducted in November 2025 and April 2026 under direction of a licensed engineer.

Surveys were conducted by Wendel Companies in Williamsville, New York and are provided for reference in Attachment A. Table 1a provides a summary of survey data for the 2-year period from April 2024 through April 2026 along with a comparison of movement between the original survey conducted in September 2014 and between successive surveys. Table 1b summarizes the directional fluctuations in location and elevation between successive surveys. Figures 1 through 4 show the total lateral and vertical movement over time for the marine mattress and northern concrete retaining wall.

The six monitoring points were established to monitor for potential movement while the Buffalo River dredge project was being conducted in the vicinity of the marine mattress as described in the SMP. Inventum does not believe the intent was for long-term monitoring after the dredge project was finished and conditions stabilized.

Fluctuations in the lateral and vertical movement of the monitoring points have been documented since the surveys were initiated in September 2014 (Figures 1 through 4). Lateral movement of the marine mattress monitoring points was largest during approximately the first two years of monitoring and has since been relatively stable at around 2-inches of total movement at SI-01 and SI-02 and between 2.5 and 3-inches at SI-03 (Figure 1). Total vertical movement at the marine mattress monitoring points is similarly stable at close to 0-inches of total movement since survey was initiated in September 2014 (Figure 2).

There has been less than 1-inch of total lateral (Figure 3) and vertical (Figure 4) movement of the northern concrete retaining wall since survey was initiated in September 2014.

Inspections of the marine mattress and marine mattress monitoring points show no visual signs of sloughing or failure (Attachment B). Some of the original topsoil placed in the voids of the riprap within the mattress for vegetation/aesthetic purposes has eroded as would be expected, but the slope remains vegetated. The marine mattress cover system remains intact.

The survey data shows a general back-and-forth pattern to the lateral and vertical movement between successive surveys and similar movement pattern between the monitoring points. Inventum believes these small movements are most likely due to cyclical frost heave/settling and changes in hydraulic pressure due to the fluctuations in groundwater levels near the Buffalo River on the exterior side of the vertical hydraulic barrier.

The recommended course of action is to continue annual survey of the monitoring points and visual assessment of stability through annual inspections.

As always, please do not hesitate to contact me directly at 571.217.3627 with any questions or comments on the survey report. An Engineering Certification in accordance with DER-10 is provided in Attachment C.

Respectfully submitted,



John P. Black, P.E.

Ecc: Andrea Caprio - NYSDEC
John Yensan – OSC, Inc.
Jon Williams – OSC, Inc.
Todd Waldrop – Inventum Engineering

Tables

Table 1a
Shoreline Protection Survey Data
Former Buffalo Color Corporation
Area A
Buffalo, NY

INITIAL	Area A Marine Mattress Survey Measurements									Area A Northern Concrete Retaining Wall Survey Measurements					
SURVEY (a)	SI-01			SI-02			SI-03			PK-70			PK-71		
9/16/2014	1042981.630	1078157.970	587.660	1042941.800	1078120.030	587.430	1042891.090	1078079.150	587.030	1043236.872	1078522.591	583.369	1043248.678	1078537.657	583.425
Date	SI-01 Northing	SI-01 Easting	SI-01 Elevation	SI-02 Northing	SI-02 Easting	SI-02 Elevation	SI-03 Northing	SI-03 Easting	SI-03 Elevation	PK-70 Northing	PK-70 Easting	PK-70 Elevation	PK-71 Northing	PK-71 Easting	PK-71 Elevation
4/10/2024	1042981.531	1078158.099	587.658	1042941.764	1078120.111	587.340	1042891.035	1078079.258	586.887	1043236.847	1078522.614	583.348	1043248.690	1078537.627	583.401
12/6/2024	1042981.531	1078158.096	587.661	1042941.675	1078120.132	587.433	1042890.880	1078079.267	587.010	1043236.838	1078522.620	583.324	1043248.679	1078537.629	583.377
6/27/2025	1042981.674	1078158.072	587.528	1042941.763	1078120.112	587.331	1042891.017	1078079.253	586.869	1043236.845	1078522.615	583.317	1043248.678	1078537.623	583.377
11/18/2025	1042981.543	1078158.090	587.636	1042941.680	1078120.120	587.432	1042890.884	1078079.260	587.010	1043236.845	1078522.610	583.309	1043248.683	1078537.620	583.369
12/18/2025	1042981.533	1078158.105	587.673	1042941.671	1078120.138	587.446	1042890.881	1078079.267	587.037	1043236.846	1078522.621	583.327	1043248.689	1078537.627	583.381
1/16/2026	1042981.531	1078158.098	587.663	1042941.685	1078120.134	587.442	1042890.885	1078079.271	587.047	1043236.850	1078522.615	583.316	1043248.692	1078537.626	583.375
2/19/2026	1042981.539	1078158.101	587.668	1042941.680	1078120.138	587.444	1042890.868	1078079.266	587.028	1043236.850	1078522.622	583.314	1043248.690	1078537.623	583.373
3/18/2026	1042981.532	1078158.102	587.645	1042941.677	1078120.142	587.430	1042890.884	1078079.260	587.010	1043236.852	1078522.610	583.317	1043248.681	1078537.658	583.395
4/20/2026	1042981.521	1078158.098	587.663	1042941.679	1078120.140	587.450	1042890.879	1078079.263	587.027	1043236.850	1078522.621	583.318	1043248.682	1078537.622	583.377

(a) Pink highlighted cells indicated more than 1-inch of movement between previous survey.

Movement Calculations

	Area A Marine Mattress Survey Measurements									Area A Northern Concrete Retaining Wall Survey Measurements					
	SI-01			SI-02			SI-03			PK-70			PK-71		
4/10/2024															
From Original															
Feet	0.099	-0.129	0.002	0.036	-0.081	0.090	0.055	-0.108	0.143	0.025	-0.023	0.021	-0.012	0.030	0.024
Inches	1.19	-1.55	0.02	0.43	-0.97	1.08	0.66	-1.30	1.72	0.30	-0.28	0.25	-0.14	0.36	0.29
Total Movement (Inches)	1.95		0.02	1.06		1.08	1.45		1.72	0.41		0.25	0.39		0.29
From Previous Survey															
Feet	0.001	0.001	-0.018	-0.081	0.021	0.111	-0.148	0.028	0.128	-0.017	0.006	-0.012	-0.025	0.008	-0.010
Inches	0.01	0.01	-0.22	-0.97	0.25	1.33	-1.78	0.34	1.54	-0.20	0.07	-0.14	-0.30	0.10	-0.12
Total Movement (Inches)	**0.02**		-0.22	**1.00**		1.33	**1.81**		1.54	**0.22**		-0.14	**0.31**		-0.12
12/6/2024															
From Original															
Feet	0.099	-0.126	-0.001	0.125	-0.102	-0.003	0.210	-0.117	0.020	0.034	-0.029	0.045	-0.001	0.028	0.048
Inches	1.19	-1.51	-0.01	1.50	-1.22	-0.04	2.52	-1.40	0.24	0.41	-0.35	0.54	-0.01	0.34	0.58
Total Movement (Inches)	1.92		-0.01	1.94		-0.04	2.88		0.24	0.54		0.54	0.34		0.58
From Previous Survey															
Feet	0.000	0.003	-0.003	0.089	-0.021	-0.093	0.155	-0.009	-0.123	0.009	-0.006	0.024	0.011	-0.002	0.024
Inches	0.00	0.04	-0.04	1.07	-0.25	-1.12	1.86	-0.11	-1.48	0.11	-0.07	0.29	0.13	-0.02	0.29
Total Movement (Inches)	**0.04**		-0.04	**1.10**		-1.12	**1.86**		-1.48	**0.13**		0.29	**0.13**		0.29
6/27/2025															
From Original															
Feet	-0.044	-0.102	0.132	0.037	-0.082	0.099	0.073	-0.103	0.161	0.027	-0.024	0.052	0.000	0.034	0.048
Inches	-0.53	-1.22	1.58	0.44	-0.98	1.19	0.88	-1.24	1.93	0.32	-0.29	0.62	0.00	0.41	0.58
Total Movement (Inches)	1.33		1.58	1.08		1.19	1.51		1.93	0.43		0.62	0.41		0.58
From Previous Survey															
Feet	-0.143	0.024	0.133	-0.088	0.020	0.102	-0.137	0.014	0.141	-0.007	0.005	0.007	0.001	0.006	0.000
Inches	-1.72	0.29	1.60	-1.06	0.24	1.22	-1.64	0.17	1.69	-0.08	0.06	0.08	0.01	0.07	0.00
Total Movement (Inches)	**1.74**		1.60	**1.08**		1.22	**1.65**		1.69	**0.10**		0.08	**0.07**		0.00

Table 1a
Shoreline Protection Survey Data
Former Buffalo Color Corporation
Area A
Buffalo, NY

INITIAL	Area A Marine Mattress Survey Measurements									Area A Northern Concrete Retaining Wall Survey Measurements					
SURVEY (a)	SI-01			SI-02			SI-03			PK-70			PK-71		
9/16/2014	1042981.630	1078157.970	587.660	1042941.800	1078120.030	587.430	1042891.090	1078079.150	587.030	1043236.872	1078522.591	583.369	1043248.678	1078537.657	583.425
Date	SI-01 Northing	SI-01 Easting	SI-01 Elevation	SI-02 Northing	SI-02 Easting	SI-02 Elevation	SI-03 Northing	SI-03 Easting	SI-03 Elevation	PK-70 Northing	PK-70 Easting	PK-70 Elevation	PK-71 Northing	PK-71 Easting	PK-71 Elevation
4/10/2024	1042981.531	1078158.099	587.658	1042941.764	1078120.111	587.340	1042891.035	1078079.258	586.887	1043236.847	1078522.614	583.348	1043248.690	1078537.627	583.401
12/6/2024	1042981.531	1078158.096	587.661	1042941.675	1078120.132	587.433	1042890.880	1078079.267	587.010	1043236.838	1078522.620	583.324	1043248.679	1078537.629	583.377
6/27/2025	1042981.674	1078158.072	587.528	1042941.763	1078120.112	587.331	1042891.017	1078079.253	586.869	1043236.845	1078522.615	583.317	1043248.678	1078537.623	583.377
11/18/2025	1042981.543	1078158.090	587.636	1042941.680	1078120.120	587.432	1042890.884	1078079.260	587.010	1043236.845	1078522.610	583.309	1043248.683	1078537.620	583.369
12/18/2025	1042981.533	1078158.105	587.673	1042941.671	1078120.138	587.446	1042890.881	1078079.267	587.037	1043236.846	1078522.621	583.327	1043248.689	1078537.627	583.381
1/16/2026	1042981.531	1078158.098	587.663	1042941.685	1078120.134	587.442	1042890.885	1078079.271	587.047	1043236.850	1078522.615	583.316	1043248.692	1078537.626	583.375
2/19/2026	1042981.539	1078158.101	587.668	1042941.680	1078120.138	587.444	1042890.868	1078079.266	587.028	1043236.850	1078522.622	583.314	1043248.690	1078537.623	583.373
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(a) Pink highlighted cells indicated more than 1-inch of movement between previous survey.

Movement Calculations

	Area A Marine Mattress Survey Measurements									Area A Northern Concrete Retaining Wall Survey Measurements					
	SI-01			SI-02			SI-03			PK-70			PK-71		
11/18/2025															
From Original															
Feet	0.087	-0.120	0.024	0.120	-0.090	-0.002	0.206	-0.110	0.020	0.027	-0.019	0.060	-0.005	0.037	0.056
Inches	1.04	-1.44	0.29	1.44	-1.08	-0.02	2.47	-1.32	0.24	0.32	-0.23	0.72	-0.06	0.44	0.67
Total Movement (Inches)	1.78		0.29	1.80		-0.02	2.80		0.24	0.40		0.72	0.45		0.67
From Previous Survey															
Feet	0.131	-0.018	-0.108	0.083	-0.008	-0.101	0.133	-0.007	-0.141	0.000	0.005	0.008	-0.005	0.003	0.008
Inches	1.57	-0.22	-1.30	1.00	-0.10	-1.21	1.60	-0.08	-1.69	0.00	0.06	0.10	-0.06	0.04	0.10
Total Movement (Inches)	**1.59**		-1.30	**1.00**		-1.21	**1.60**		-1.69	**0.06**		0.10	**0.07**		0.10
12/18/2025															
From Original															
Feet	0.097	-0.135	-0.013	0.129	-0.108	-0.016	0.209	-0.117	-0.007	0.026	-0.030	0.042	-0.011	0.030	0.044
Inches	1.16	-1.62	-0.16	1.55	-1.30	-0.19	2.51	-1.40	-0.08	0.31	-0.36	0.50	-0.13	0.36	0.53
Total Movement (Inches)	1.99		-0.16	2.02		-0.19	2.87		-0.08	0.48		0.50	0.38		0.53
From Previous Survey															
Feet	0.010	-0.015	-0.037	0.009	-0.018	-0.014	0.003	-0.007	-0.027	-0.001	-0.011	-0.018	-0.006	-0.007	-0.012
Inches	0.12	-0.18	-0.44	0.11	-0.22	-0.17	0.04	-0.08	-0.32	-0.01	-0.13	-0.22	-0.07	-0.08	-0.14
Total Movement (Inches)	**0.22**		-0.44	**0.24**		-0.17	**0.09**		-0.32	**0.13**		-0.22	**0.11**		-0.14
1/16/2026															
From Original															
Feet	0.099	-0.128	-0.003	0.115	-0.104	-0.012	0.205	-0.121	-0.017	0.022	-0.024	0.053	-0.014	0.031	0.050
Inches	1.19	-1.54	-0.04	1.38	-1.25	-0.14	2.46	-1.45	-0.20	0.26	-0.29	0.64	-0.17	0.37	0.60
Total Movement (Inches)	1.94		-0.04	1.86		-0.14	2.86		-0.20	0.39		0.64	0.41		0.60
From Previous Survey															
Feet	0.002	0.007	0.010	-0.014	0.004	0.004	-0.004	-0.004	-0.010	-0.004	0.006	0.011	-0.003	0.001	0.006
Inches	0.02	0.08	0.12	-0.17	0.05	0.05	-0.05	-0.05	-0.12	-0.05	0.07	0.13	-0.04	0.01	0.07
Total Movement (Inches)	**0.09**		0.12	**0.17**		0.05	**0.07**		-0.12	**0.09**		0.13	**0.04**		0.07

Table 1a
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Date	SI-01 Northing	SI-01 Easting	SI-01 Elevation	SI-02 Northing	SI-02 Easting	SI-02 Elevation	SI-03 Northing	SI-03 Easting	SI-03 Elevation	PK-70 Northing	PK-70 Easting	PK-70 Elevation	PK-71 Northing	PK-71 Easting	PK-71 Elevation
4/10/2024	1042981.531	1078158.099	587.658	1042941.764	1078120.111	587.340	1042891.035	1078079.258	586.887	1043236.847	1078522.614	583.348	1043248.690	1078537.627	583.401
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(a) Pink highlighted cells indicated more than 1-inch of movement between previous survey.

Movement Calculations

	Area A Marine Mattress Survey Measurements									Area A Northern Concrete Retaining Wall Survey Measurements					
	SI-01			SI-02			SI-03			PK-70			PK-71		
2/19/2026															
From Original															
Feet	0.091	-0.131	-0.008	0.120	-0.108	-0.014	0.222	-0.116	0.002	0.022	-0.031	0.055	-0.012	0.034	0.052
Inches	1.09	-1.57	-0.10	1.44	-1.30	-0.17	2.66	-1.39	0.02	0.26	-0.37	0.66	-0.14	0.41	0.62
Total Movement (Inches)	1.91		-0.10	1.94		-0.17	3.01		0.02	0.46		0.66	0.43		0.62
From Previous Survey															
Feet	-0.008	-0.003	-0.005	0.005	-0.004	-0.002	0.017	0.005	0.019	0.000	-0.007	0.002	0.002	0.003	0.002
Inches	-0.10	-0.04	-0.06	0.06	-0.05	-0.02	0.20	0.06	0.23	0.00	-0.08	0.02	0.02	0.04	0.02
Total Movement (Inches)	**0.10**		-0.06	**0.08**		-0.02	**0.21**		0.23	**0.08**		0.02	**0.04**		0.02
3/18/2026															
From Original															
Feet	0.098	-0.132	0.015	0.123	-0.112	0.000	0.206	-0.110	0.020	0.020	-0.019	0.052	-0.003	-0.001	0.030
Inches	1.18	-1.58	0.18	1.48	-1.34	0.00	2.47	-1.32	0.24	0.24	-0.23	0.62	-0.04	-0.01	0.36
Total Movement (Inches)	1.97		0.18	2.00		0.00	2.80		0.24	0.33		0.62	0.04		0.36
From Previous Survey															
Feet	0.007	-0.001	0.023	0.003	-0.004	0.014	-0.016	0.006	0.018	-0.002	0.012	-0.003	0.009	-0.035	-0.022
Inches	0.08	-0.01	0.28	0.04	-0.05	0.17	-0.19	0.07	0.22	-0.02	0.14	-0.04	0.11	-0.42	-0.26
Total Movement (Inches)	**0.08**		0.28	**0.06**		0.17	**0.21**		0.22	**0.15**		-0.04	**0.43**		-0.26
4/20/2026															
From Original															
Feet	0.109	-0.128	-0.003	0.121	-0.110	-0.020	0.211	-0.113	0.003	0.022	-0.030	0.051	-0.004	0.035	0.048
Inches	1.31	-1.54	-0.04	1.45	-1.32	-0.24	2.53	-1.36	0.04	0.26	-0.36	0.61	-0.05	0.42	0.58
Total Movement (Inches)	2.02		-0.04	1.96		-0.24	2.87		0.04	0.45		0.61	0.42		0.58
From Previous Survey															
Feet	0.011	0.004	-0.018	-0.002	0.002	-0.020	0.005	-0.003	-0.017	0.002	-0.011	-0.001	-0.001	0.036	0.018
Inches	0.13	0.05	-0.22	-0.02	0.02	-0.24	0.06	-0.04	-0.20	0.02	-0.13	-0.01	-0.01	0.43	0.22
Total Movement (Inches)	**0.14**		-0.22	**0.03**		-0.24	**0.07**		-0.20	**0.13**		-0.01	**0.43**		0.22

Table 1b
Shoreline Protection Survey Data
Marine Mattress Survey Summary
Former Buffalo Color Corporation
Area A
Buffalo, NY

SI-101 Iterative Differentials (inches)			
Survey Date	Northing	Easting	Elevation
3/21/2023	-	-	-
4/10/2024	0.01	0.01	-0.22
12/6/2024	0.00	0.04	-0.04
6/27/2025	-1.72	0.29	1.60
11/18/2025	1.57	-0.22	-1.30
12/18/2025	0.12	-0.18	-0.44
1/16/2026	0.02	0.08	0.12
2/19/2026	-0.10	-0.04	-0.06
3/18/2026	0.08	-0.01	0.28
4/20/2026	0.13	0.05	-0.22

SI-102 Iterative Differentials (inches)			
Survey Date	Northing	Easting	Elevation
3/21/2023	-	-	-
4/10/2024	-0.97	0.25	1.33
12/6/2024	1.07	-0.25	-1.12
6/27/2025	-1.06	0.24	1.22
11/18/2025	1.00	-0.10	-1.21
12/18/2025	0.11	-0.22	-0.17
1/16/2026	-0.17	0.05	0.05
2/19/2026	0.06	-0.05	-0.02
3/18/2026	0.04	-0.05	0.17
4/20/2026	-0.02	0.02	-0.24

SI-103 Iterative Differentials (inches)			
Survey Date	Northing	Easting	Elevation
3/21/2023	-	-	-
4/10/2024	-1.78	0.34	1.54
12/6/2024	1.86	-0.11	-1.48
6/27/2025	-1.64	0.17	1.69
11/18/2025	1.60	-0.08	-1.69
12/18/2025	0.04	-0.08	-0.32
1/16/2026	-0.05	-0.05	-0.12
2/19/2026	0.20	0.06	0.23
3/18/2026	-0.19	0.07	0.22
4/20/2026	0.06	-0.04	-0.20

Figures

Figure 1
Marine Mattress Monitoring Locations
Total Lateral Movement from Original Survey - September 2014 - April 2026

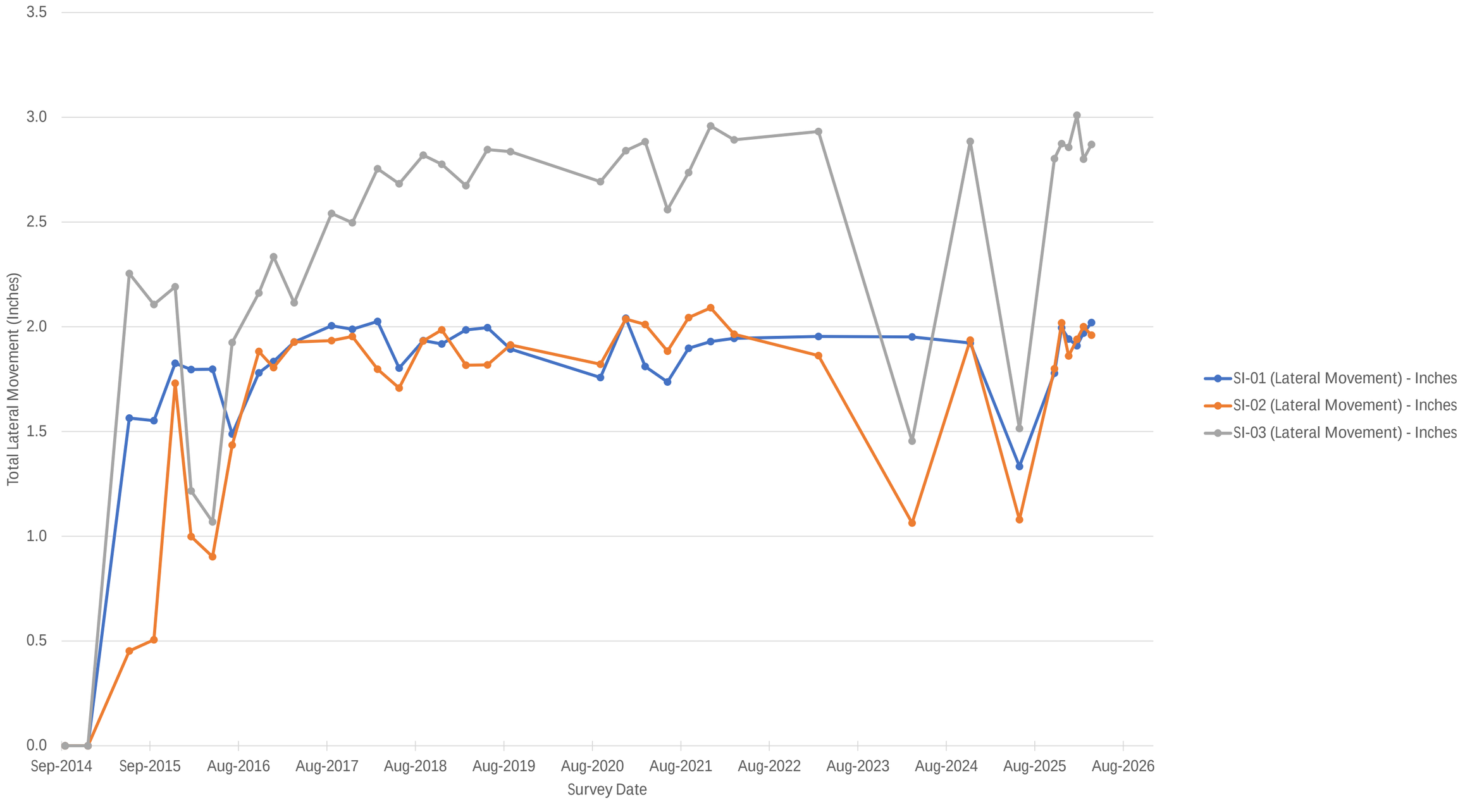
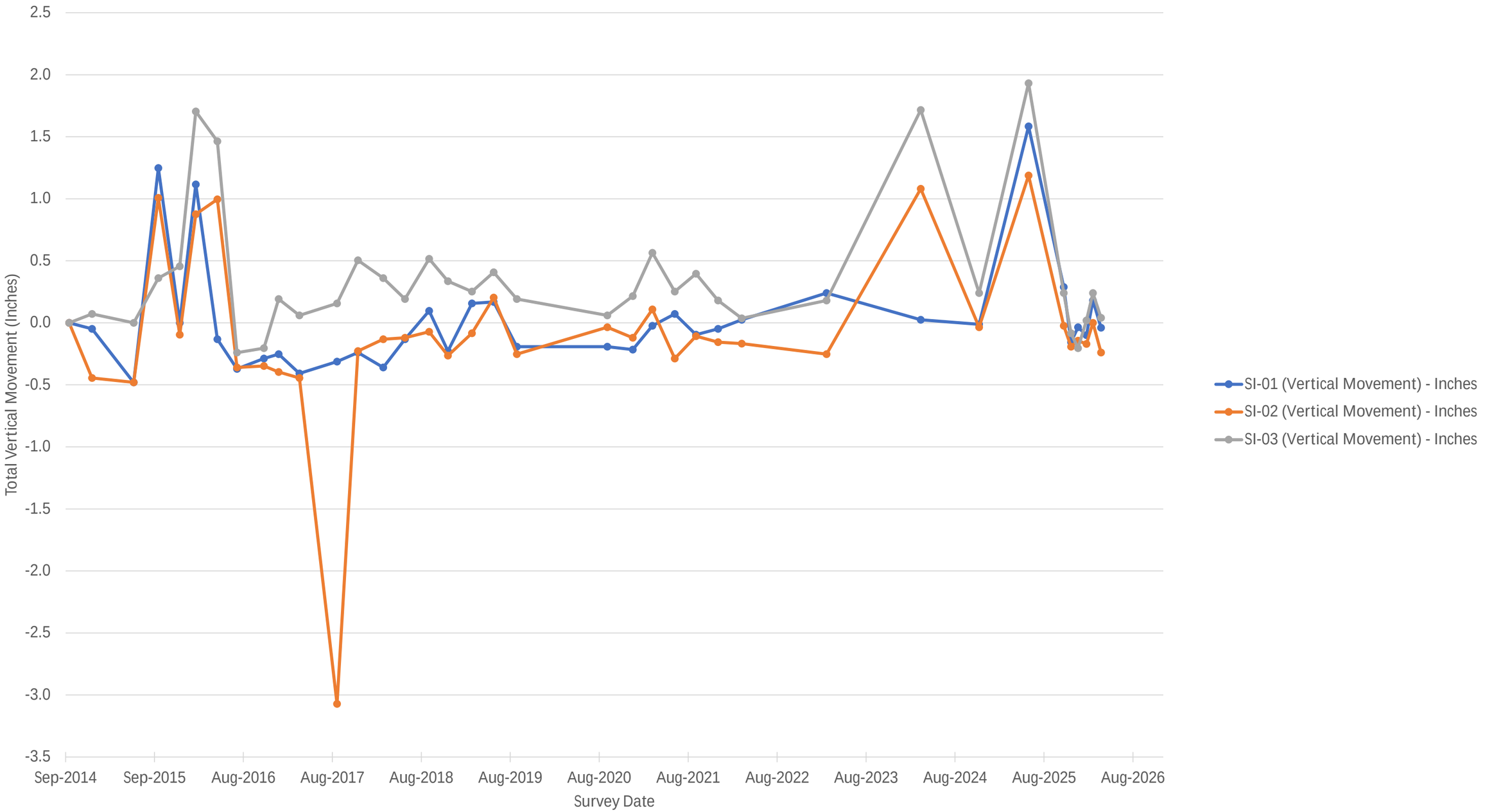
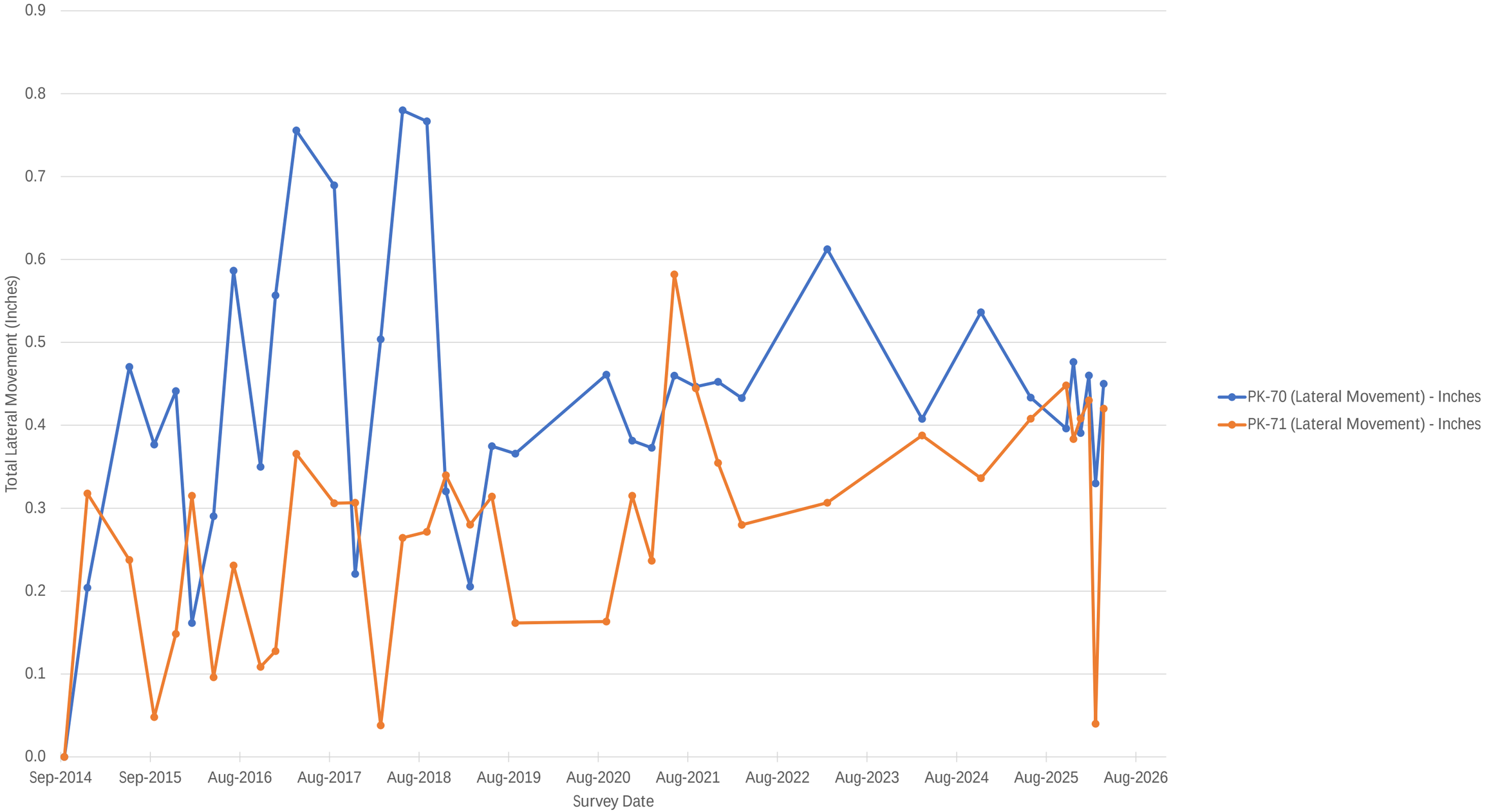


Figure 2
Marine Mattress Monitoring Locations
Total Vertical Movement from Original Survey - September 2014 - April 2026



Shoreline_Total Movement Chart_05 13 2026
Marine Mattress - Vertical

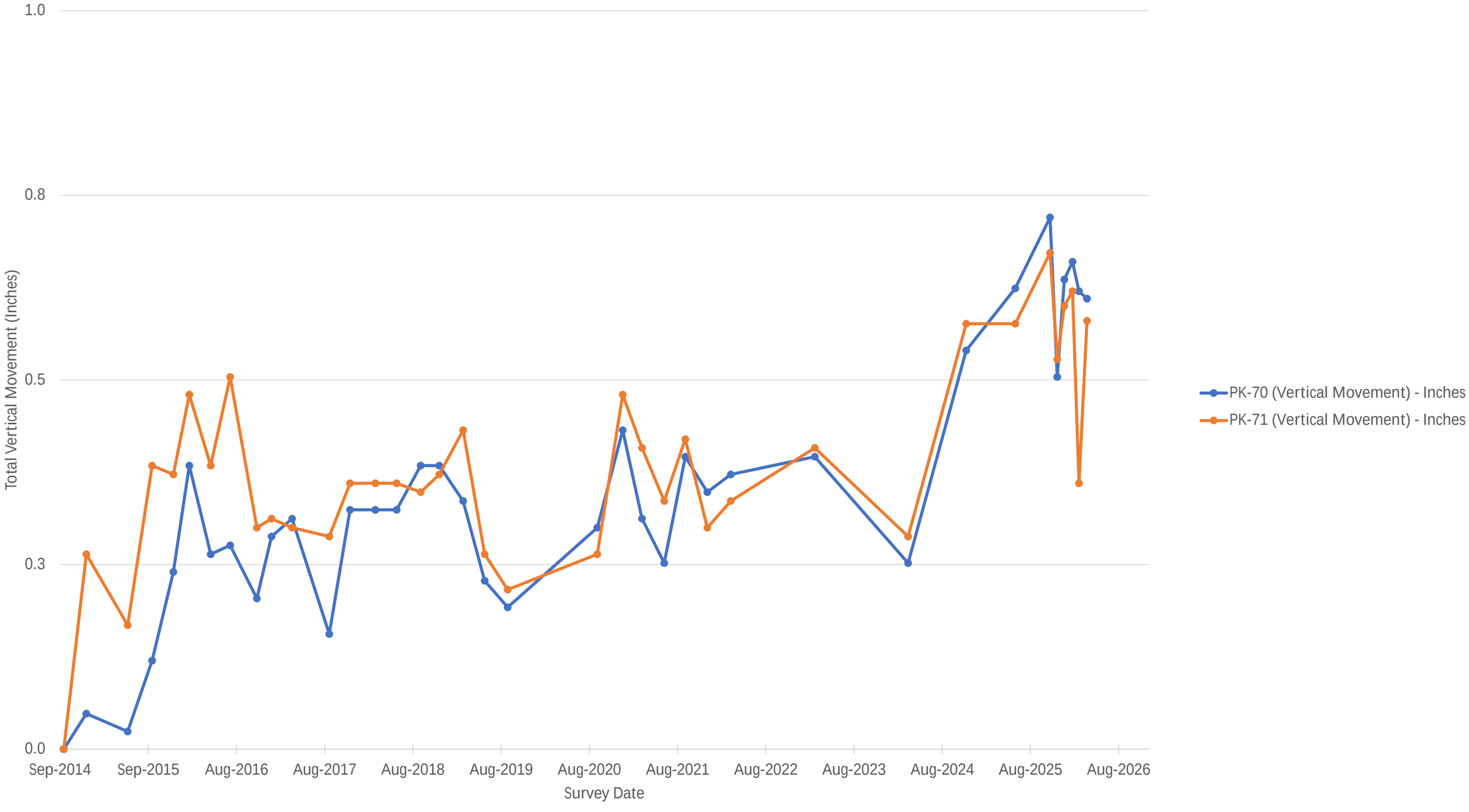
Figure 3
Northern Concrete Retaining Wall Monitoring Locations
Total Lateral Movement from Original Survey - September 2014 - April 2026



Shoreline_Total Movement Chart_05 13 2026

NCRW - Lateral

Figure 4
Northern Concrete Retaining Wall Monitoring Locations
Total Vertical Movement from Original Survey - September 2014 - April 2026



Shoreline_Total Movement Chart_05 13 2026
NCRW - Vertical

Attachment A – Survey Data

Seco Mini Prism
L-Bar
N=1043152.60
E=1077525.48
Elev=603.67

Prism 50 has been
removed by others

Seco Mini Prism
L-Bar
N 1 043 705.179
E 1 078 190.666
Elev. 594.109

Prism 51 has been Reset 3-27-19

1 Story
Block Building
No. 85

Metal Bldg
On Conc Pad

Spike

1 Story
Metal Clad
Building

1 Story
Metal Building
No. 82

2 Story
Metal Building
No. 83

Spike

Spike

1 Story
Block Building

Original Observations 9-16-2014

SI-03
Top Casing = 587.24
Mark on Core = 587.03
N=1042891.09
E=1078079.15

SI-02
Top Casing = 587.65
Mark on Core = 587.43
N=1042941.80
E=1078120.03

SI-01
Top Casing = 587.91
Mark on Core = 587.66
N=1042981.63
E=1078157.97

Well

Marine Mattress

Marine Mattress Monitoring Prisms
have been removed by others.

574.64 576.08 576.16 576.20 576.21 Exposed Liner
572.61 572.61 572.61 572.60 Edge Water

305 70 PK 71 PK 306 307

Set "X" Cuts on Steel
Retaining Wall

N=1042922.79
E=1078498.06
Elev=581.29

South Park Avenue (66' Wide)
(Formerly Abbott Road
Public Highway)

Buffalo River

30' 0 30' 60'

SCALE BAR
IN FEET

INITIAL	Area A Marine Mattress Survey Measurements									Area A Northern Concrete Retaining Wall Survey Measurements					
SURVEY	SI-01			SI-02			SI-03			PK-70			PK-71		
9/16/2014	1042981.630	1078157.970	587.660	1042941.800	1078120.030	587.430	1042891.090	1078079.150	587.030	1043236.872	1078522.591	583.369	1043248.678	1078537.657	583.425
Date	SI-01 Northing	SI-01 Easting	SI-01 Elevation	SI-02 Northing	SI-02 Easting	SI-02 Elevation	SI-03 Northing	SI-03 Easting	SI-03 Elevation	PK-70 Northing	PK-70 Easting	PK-70 Elevation	PK-71 Northing	PK-71 Easting	PK-71 Elevation
11/18/2025	1042981.543	1078158.090	587.636	1042941.680	1078120.120	587.432	1042890.884	1078079.260	587.010	1043236.845	1078522.610	583.309	1043248.683	1078537.620	583.369

INITIAL	Area A Sheet Pile Wall								
SURVEY	X Cut 305			X Cut 306			X Cut 307		
3/21/2023	1043221.201	1078510.062	583.564	1043228.113	1078523.834	583.340	1043250.329	1078548.243	583.290
Date	X Cut 305	X Cut 305	X Cut 305	X Cut 306	X Cut 306	X Cut 306	X Cut 307	X Cut 307	X Cut 307
4/10/2024	1043221.210	1078510.050	583.558	1043228.127	1078523.806	583.350	1043250.335	1078548.219	583.309

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Map
Showing Site Monitoring Points
Area A
South Buffalo Development

LOT	SECTION	TOWNSHIP	RANGE
City	Buffalo		
COUNTY	Erie		
STATE	New York		
DATE	November 18, 2025		
SCALE	1" = 40'		
JOB NO.	645001 Monitoring		
RESURVEYED			
⚠	Update Horizontal Coordinates Feb 2025		

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050349
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Seco Mini Prism
L-Bar
N=1043152.60
E=1077525.48
Elev=603.69

Prism 50 has been
removed by others

Seco Mini Prism
L-Bar

Prism 51 has been Reset 3-27-19

N: 1 043 705.179
E: 1 078 190.666
Elev. 594.109

1 Story
Block Building
No. 85

Metal Bldg
On Conc Pad

Spike

1 Story
Metal Clad
Building

1 Story
Metal Building
No. 82

2 Story
Metal Building
No. 83

Spike

Spike

1 Story
Block Building

Original Observations 9-16-2014

SI-03
Top Casing = 587.24
Mark on Core = 587.03
Well N=1042891.09 E=1078079.15

SI-02
Top Casing = 587.65
Mark on Core = 587.43
Well N=1042941.80 E=1078120.03

SI-01
Top Casing = 587.91
Mark on Core = 587.66
Well N=1042981.63 E=1078157.97

Marine Mattress

Marine Mattress Monitoring Prisms
have been removed by Others.

574.64 576.08 576.16 576.20 576.21 Exposed Liner
572.61 572.61 572.61 572.60 Edge Water

305 70 PK 71 PK 306 307

Set "X" Cuts on Steel
Retaining Wall

N=1042922.79
E=1078498.06
Elev=586.29

South Park Avenue (66' Wide)
(Formerly Mineral Springs Road)
(Public Highway)

Buffalo River

30' 0 30' 60'
SCALE BAR
IN FEET

INITIAL	Area A Marine Mattress Survey Measurements									Area A Northern Concrete Retaining Wall Survey Measurements					
SURVEY	SI-01			SI-02			SI-03			PK-70			PK-71		
9/16/2014	1042981.630	1078157.970	587.660	1042941.800	1078120.030	587.430	1042891.090	1078079.150	587.030	1043236.872	1078522.591	583.369	1043248.678	1078537.657	583.425
Date	SI-01 Northing	SI-01 Easting	SI-01 Elevation	SI-02 Northing	SI-02 Easting	SI-02 Elevation	SI-03 Northing	SI-03 Easting	SI-03 Elevation	PK-70 Northing	PK-70 Easting	PK-70 Elevation	PK-71 Northing	PK-71 Easting	PK-71 Elevation
1/16/2026	1042981.531	1078158.098	587.663	1042941.685	1078120.134	587.442	1042890.885	1078079.271	587.047	1043236.85	1078522.615	583.316	1043248.692	1078537.626	583.375

INITIAL	Area A Sheet Pile Wall								
SURVEY	X Cut 305			X Cut 306			X Cut 307		
3/21/2023	1043221.201	1078510.062	583.564	1043228.113	1078523.834	583.340	1043250.329	1078548.243	583.290
Date	X Cut 305	X Cut 305	X Cut 305	X Cut 306	X Cut 306	X Cut 306	X Cut 307	X Cut 307	X Cut 307
4/10/2024	1043221.210	1078510.050	583.558	1043228.127	1078523.806	583.350	1043250.335	1078548.219	583.309

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Map
Showing Site Monitoring Points
Area A
South Buffalo Development

LOT	SECTION	TOWNSHIP	RANGE
City	Buffalo		
COUNTY	Erie		
STATE	New York		
DATE	January 16, 2026		
SCALE	1" = 40'		
JOB NO.	645001 Monitoring		
RESURVEYED			
⚠	Update Horizontal Coordinates Feb 2025		

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L-Bar
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E=1077525.48
Elev=603.69

Prism 50 has been
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Seco Mini Prism
L-Bar

Prism 51 has been Reset 3-27-19

N: 1 043 705.179
E: 1 078 190.666
Elev. 594.109

1 Story
Block Building
No. 85

Metal Bldg
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Spike

1 Story
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Building

1 Story
Metal Building
No. 82

2 Story
Metal Building
No. 83

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1 Story
Block Building

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SI-03
Top Casing = 587.24
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Well N=1042891.09 E=1078079.15

SI-02
Top Casing = 587.65
Mark on Core = 587.43
Well N=1042941.80 E=1078120.03

SI-01
Top Casing = 587.91
Mark on Core = 587.66
Well N=1042981.63 E=1078157.97

Marine Mattress

Marine Mattress Monitoring Prisms
have been removed by Others.

574.64 576.08 576.16 576.20 576.21 Exposed Liner
572.61 572.61 572.61 572.60 Edge Water

305 70 PK 71 PK 306 307

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Retaining Wall

N=1042922.79
E=1078498.06
Elev=586.29

South Park Avenue (66' Wide)
(Formerly Mineral Springs Road)
(Public Highway)

Buffalo River

30' 0 30' 60'
SCALE BAR
IN FEET

INITIAL	Area A Marine Mattress Survey Measurements									Area A Northern Concrete Retaining Wall Survey Measurements					
SURVEY	SI-01			SI-02			SI-03			PK-70			PK-71		
9/16/2014	1042981.630	1078157.970	587.660	1042941.800	1078120.030	587.430	1042891.090	1078079.150	587.030	1043236.872	1078522.591	583.369	1043248.678	1078537.657	583.425
Date	SI-01 Northing	SI-01 Easting	SI-01 Elevation	SI-02 Northing	SI-02 Easting	SI-02 Elevation	SI-03 Northing	SI-03 Easting	SI-03 Elevation	PK-70 Northing	PK-70 Easting	PK-70 Elevation	PK-71 Northing	PK-71 Easting	PK-71 Elevation
1/16/2026	1042981.531	1078158.098	587.663	1042941.685	1078120.134	587.442	1042890.885	1078079.271	587.047	1043236.85	1078522.615	583.316	1043248.692	1078537.626	583.375

INITIAL	Area A Sheet Pile Wall								
SURVEY	X Cut 305			X Cut 306			X Cut 307		
3/21/2023	1043221.201	1078510.062	583.564	1043228.113	1078523.834	583.340	1043250.329	1078548.243	583.290
Date	X Cut 305	X Cut 305	X Cut 305	X Cut 306	X Cut 306	X Cut 306	X Cut 307	X Cut 307	X Cut 307
4/10/2024	1043221.210	1078510.050	583.558	1043228.127	1078523.806	583.350	1043250.335	1078548.219	583.309

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Map
Showing Site Monitoring Points
Area A
South Buffalo Development

LOT	SECTION	TOWNSHIP	RANGE
City	Buffalo		
COUNTY	Erie		
STATE	New York		
DATE	January 16, 2026		
SCALE	1" = 40'		
JOB NO.	645001 Monitoring		
RESURVEYED			
⚠	Update Horizontal Coordinates Feb 2025		

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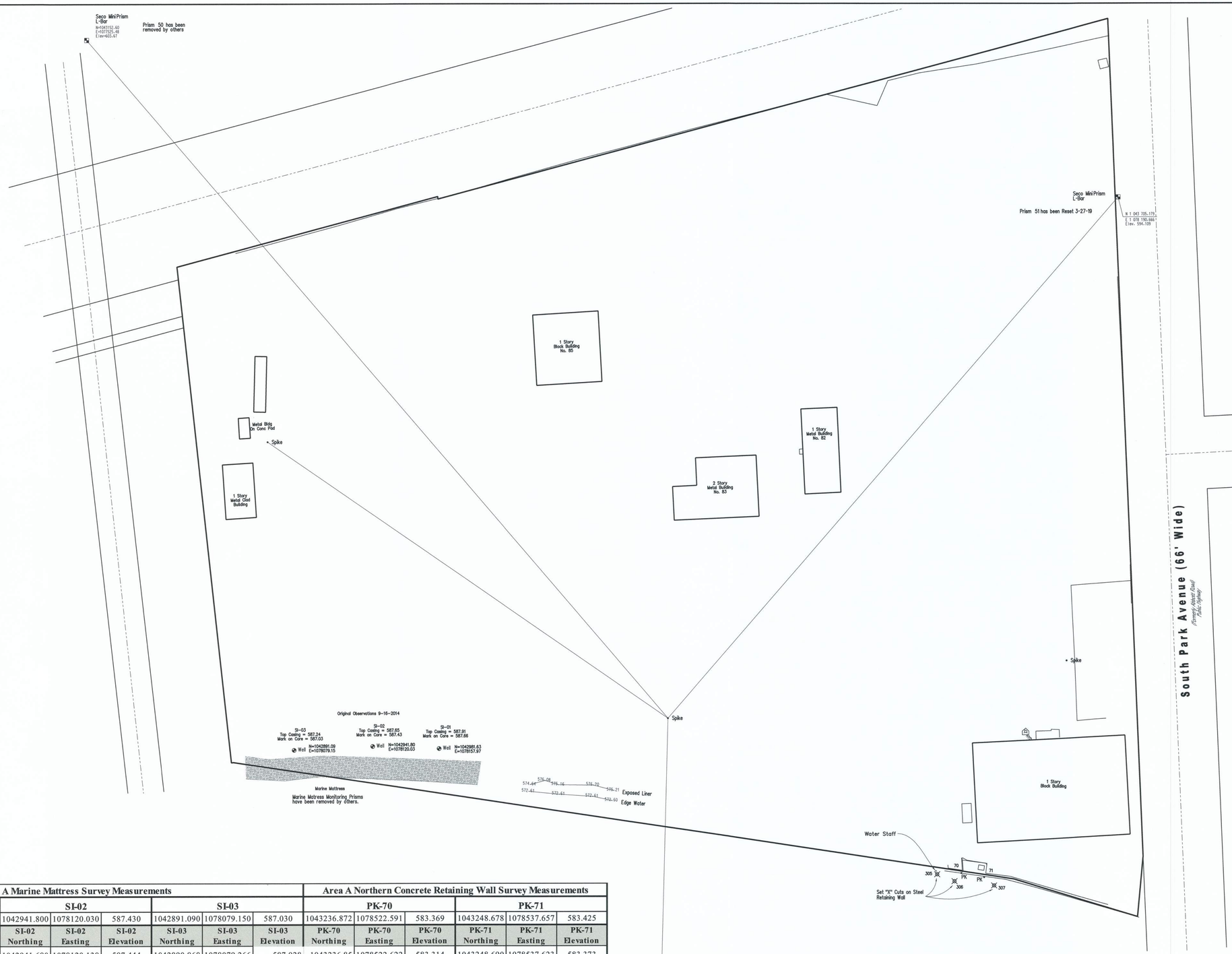
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INITIAL	Area A Marine Mattress Survey Measurements									Area A Northern Concrete Retaining Wall Survey Measurements					
SURVEY	SI-01			SI-02			SI-03			PK-70			PK-71		
9/16/2014	1042981.630	1078157.970	587.660	1042941.800	1078120.030	587.430	1042891.090	1078079.150	587.030	1043236.872	1078522.591	583.369	1043248.678	1078537.657	583.425
Date	SI-01 Northing	SI-01 Easting	SI-01 Elevation	SI-02 Northing	SI-02 Easting	SI-02 Elevation	SI-03 Northing	SI-03 Easting	SI-03 Elevation	PK-70 Northing	PK-70 Easting	PK-70 Elevation	PK-71 Northing	PK-71 Easting	PK-71 Elevation
2/19/2026	1042981.539	1078158.101	587.668	1042941.680	1078120.138	587.444	1042890.868	1078079.266	587.028	1043236.85	1078522.622	583.314	1043248.690	1078537.623	583.373

INITIAL	Area A Sheet Pile Wall								
SURVEY	X Cut 305			X Cut 306			X Cut 307		
3/21/2023	1043221.201	1078510.062	583.564	1043228.113	1078523.834	583.340	1043250.329	1078548.243	583.290
Date	X Cut 305	X Cut 305	X Cut 305	X Cut 306	X Cut 306	X Cut 306	X Cut 307	X Cut 307	X Cut 307
2/19/2026	1043221.188	1078510.059	583.547	1043228.123	1078523.814	583.327	1043250.330	1078548.224	583.279

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Map
Showing Site Monitoring Points
Area A
South Buffalo Development

LOT	SECTION	TOWNSHIP	RANGE
City	Buffalo		
COUNTY	Erie		
STATE	New York		
DATE	February 19, 2026		
SCALE	1" = 40'		
JOB NO.	645001 Monitoring		
RESURVEYED			

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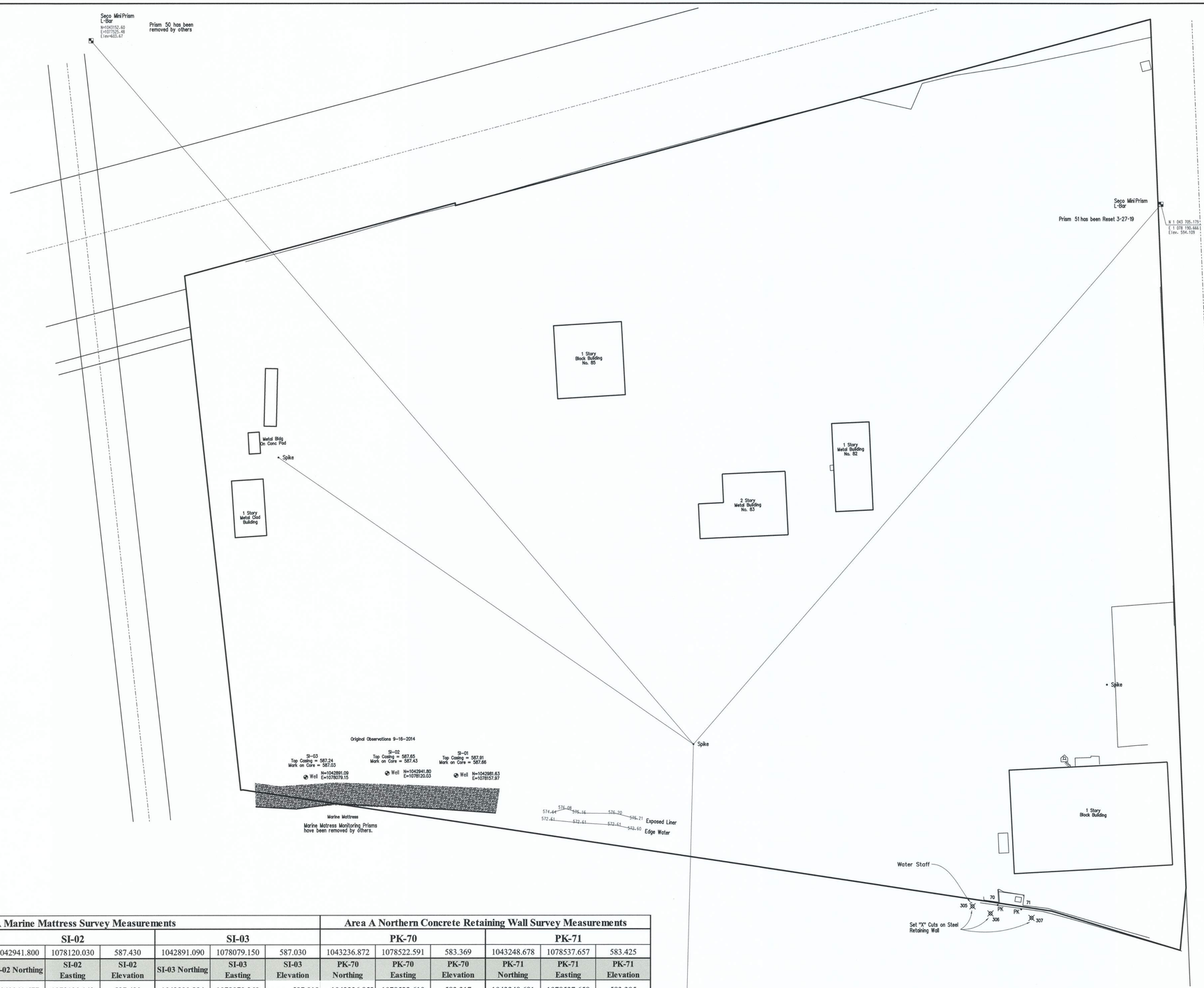
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Kenneth L. Slaugenhoupt Llc. No. 50349

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INITIAL SURVEY	Area A Marine Mattress Survey Measurements									Area A Northern Concrete Retaining Wall Survey Measurements					
	SI-01			SI-02			SI-03			PK-70			PK-71		
9/16/2014	1042981.630	1078157.970	587.660	1042941.800	1078120.030	587.430	1042891.090	1078079.150	587.030	1043236.872	1078522.591	583.369	1043248.678	1078537.657	583.425
Date	SI-01 Northing	SI-01 Easting	SI-01 Elevation	SI-02 Northing	SI-02 Easting	SI-02 Elevation	SI-03 Northing	SI-03 Easting	SI-03 Elevation	PK-70 Northing	PK-70 Easting	PK-70 Elevation	PK-71 Northing	PK-71 Easting	PK-71 Elevation
3/18/2026	1042981.532	1078158.102	587.645	1042941.677	1078120.142	587.430	1042890.884	1078079.260	587.010	1043236.852	1078522.610	583.317	1043248.681	1078537.658	583.395

INITIAL SURVEY	Area A Sheet Pile Wall								
	X Cut 305			X Cut 306			X Cut 307		
3/21/2023	1043221.201	1078510.062	583.564	1043228.113	1078523.834	583.340	1043250.329	1078548.243	583.290
Date	X Cut 305	X Cut 305	X Cut 305	X Cut 306	X Cut 306	X Cut 306	X Cut 307	X Cut 307	X Cut 307
3/18/2026	1043221.195	1078510.049	583.539	1043228.124	1078523.810	583.330	1043250.343	1078548.213	583.284

No Access to these three December 2024, Due to Ice

40' 0 40' 80'

SCALE BAR IN FEET

wendel

Centerpointe Corporate Park * 375 Essjay Road, Suite 200
Williamsville, New York 14221
PHONE: 716.688.0766 FAX: 716.625.6825
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Wendel WD Architecture, Engineering, Surveying and Landscape Architecture P.C.

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Map
Showing Site Monitoring Points
Area A
South Buffalo Development

LOT	SECTION	TOWNSHIP	RANGE
City	Buffalo		
COUNTY	Erie		
STATE	New York		
DATE	March 18, 2026		
SCALE	1" = 40'		
JOB NO.	645001 Monitoring		
RESURVEYED			

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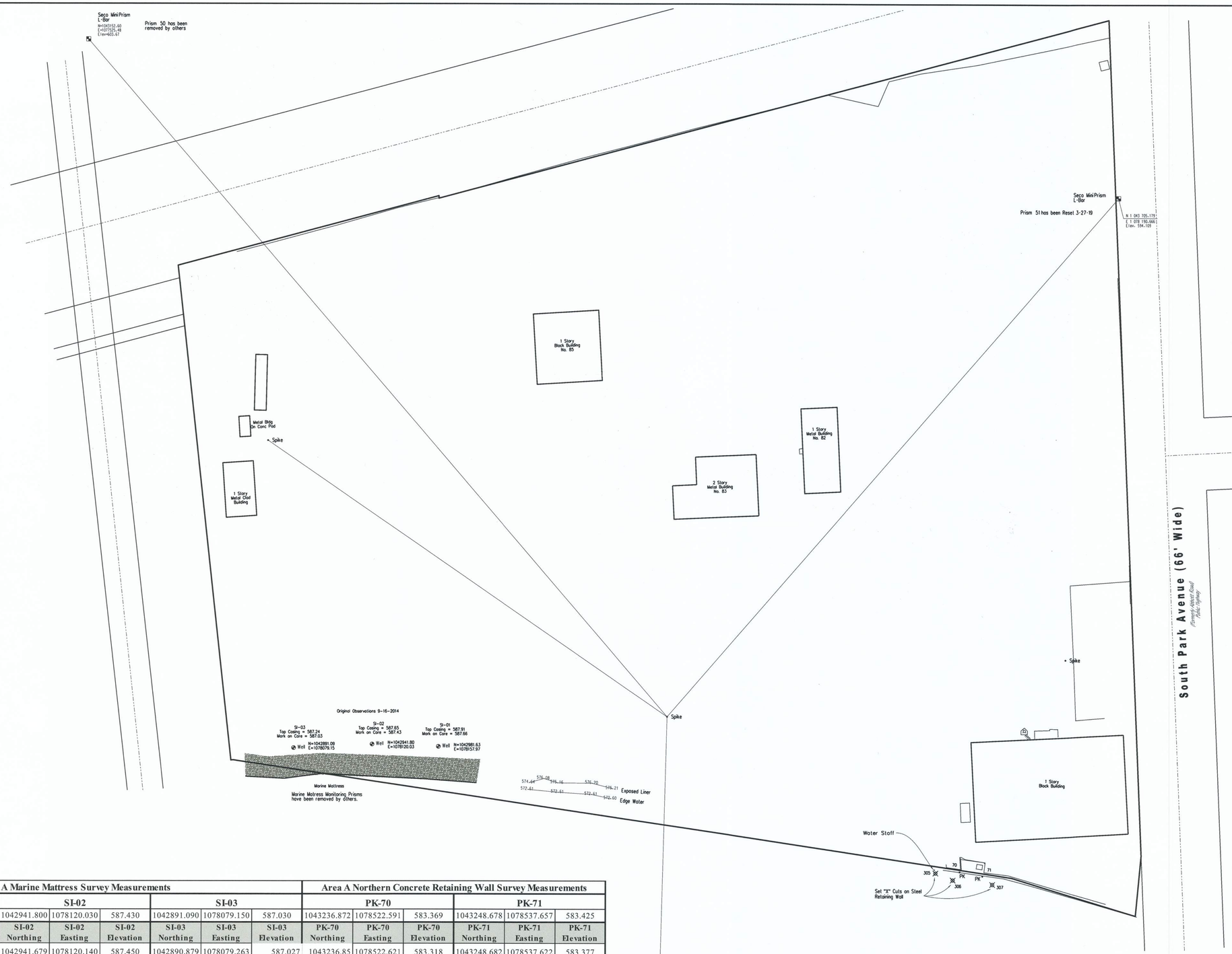
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INITIAL	Area A Marine Mattress Survey Measurements									Area A Northern Concrete Retaining Wall Survey Measurements					
SURVEY	SI-01			SI-02			SI-03			PK-70			PK-71		
9/16/2014	1042981.630	1078157.970	587.660	1042941.800	1078120.030	587.430	1042891.090	1078079.150	587.030	1043236.872	1078522.591	583.369	1043248.678	1078537.657	583.425
Date	SI-01 Northing	SI-01 Easting	SI-01 Elevation	SI-02 Northing	SI-02 Easting	SI-02 Elevation	SI-03 Northing	SI-03 Easting	SI-03 Elevation	PK-70 Northing	PK-70 Easting	PK-70 Elevation	PK-71 Northing	PK-71 Easting	PK-71 Elevation
4/20/2026	1042981.521	1078158.098	587.663	1042941.679	1078120.140	587.450	1042890.879	1078079.263	587.027	1043236.85	1078522.621	583.318	1043248.682	1078537.622	583.377

INITIAL	Area A Sheet Pile Wall								
SURVEY	X Cut 305			X Cut 306			X Cut 307		
3/21/2023	1043221.201	1078510.062	583.564	1043228.113	1078523.834	583.340	1043250.329	1078548.243	583.290
Date	X Cut 305	X Cut 305	X Cut 305	X Cut 306	X Cut 306	X Cut 306	X Cut 307	X Cut 307	X Cut 307
4/20/2026	1043221.200	1078510.06	583.556	1043228.12	1078523.822	583.337	1043250.332	1078548.23	583.295

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Map
Showing Site Monitoring Points
Area A
South Buffalo Development

LOT	SECTION	TOWNSHIP	RANGE
City	Buffalo		
COUNTY	Erie		
STATE	New York		
DATE	April 20, 2026		
SCALE	1" = 40'		
JOB NO.	645001 Monitoring		
RESURVEYED			

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STATE OF NEW YORK
KENNETH LEE SLAUGENHOUPT
050349
LICENSED LAND SURVEYOR

Kenneth L. Slaugenhoupt Lic. No. 50349

FILE: $FILE$

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Attachment B– Photographic Log

Client Name: SBD	Marine Mattress Monitoring Survey	Project: Buffalo Color Corporation Site Areas A&B
Photo No. 1 Direction Photo Taken: Looking North Description: Marine Mattress with vegetation (April 2026).		
Client Name: SBD	Marine Mattress Monitoring Survey	Project: Buffalo Color Corporation Site Areas A&B
Photo No. 1 Direction Photo Taken: Looking South Description: Marine Mattress with vegetation (April 2026). Features show no signs of sloughing or slope failure.		

Client Name: SBD	Marine Mattress Monitoring Survey	Project: Buffalo Color Corporation Site Areas A&B
Photo No. 1 Direction Photo Taken: Looking Northeast Description: Marine Mattress monitoring point (typical). Surrounding vegetation and features show no signs of sloughing or cracking (March 2026).		
Client Name: SBD	Marine Mattress Monitoring Survey	Project: Buffalo Color Corporation Site Areas A&B
Photo No. 1 Direction Photo Taken: Looking Northeast Description: Monitoring point SI-02 (November 2025). Typical of all monitoring points. No indication of sloughing. Casing and core are plumb.		

Attachment C – Engineering Certification

Engineering Certification

I, John. P. Black certify that I am currently a NYS registered professional engineer as defined in 6 NYCRR Part 375 and that this report was prepared in accordance with all applicable statutes and regulations and in substantial conformance with the DER Technical Guidance for Site Investigation and Remediation (DER-10) and that all activities were performed in full accordance with the DER-approved work plan and any DER-approved modifications.

Respectfully Submitted,

Inventum Engineering, P.C.

Date: 8.14.2026

John P. Black, P.E.

License No: 062818.1

Seal:



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