CITY OF FRANKLIN
QUARRY MONITORING COMMITTEE*
MEETING AGENDA

Franklin City Hall, Council Chambers
9229 West Loomis Road, Franklin, Wisconsin 53132
Tuesday, July 29, 2025, 6:00 p.m.

I. Call to Order, Roll Call and Pledge of Allegiance

II. Approval of Minutes

a. Regular meeting of April 22, 2025.

III. Citizen Comment Period
PLEASE NOTE: Each speaker may need to be limited to three minutes, allowing everyone who wishes the opportunity to speak

IV. Business (Action may be taken on any item)

a. Presentation by Stantec Consulting Services, Inc., 2nd quarter of 2025 (Apr-Jun).

b. Seismograph relocation.

V. Meeting scheduling discussion

VI. Adjournment

** Notice is given that a majority of the Common Council may attend this meeting to gather information about an agenda item over which the Common Council has decision-making responsibility. This may constitute a meeting of the Common Council per State ex rel. Badke v. Greendale Village Board, even though the Common Council will not take formal action at this meeting.*

Notice is further given that upon reasonable notice, efforts will be made to accommodate the needs of disabled individuals through appropriate aids and services. For additional information, please contact the Franklin City Clerk's office at (414) 425-7500.

City of Franklin **unapproved**
Quarry Monitoring Committee Meeting
April 22, 2025
Minutes

I. Call to Order and Roll Call

Vice Chair Dina Swanson called the April 22, 2025 Quarry Monitoring Committee to order at 6:00 p.m. in the Council Chambers at Franklin City Hall, 9229 W. Loomis Road, Franklin, Wisconsin.

Present was Vice Chair Dina Swanson, Alderman Yousef Hasan, Alderman Nabil Salous and members Edward Pings and Jon TenHaken. Also present were Planning Manager Régulo Martínez-Montilva, Kristen Gunderson-Inden of Stantec Consulting Services and Clint Weninger of Payne & Dolan.

II. Approval of Minutes

Alderman Hasan moved and Member TenHaken seconded a motion to approve the minutes of the January 28, 2025. On voice vote, all voted 'aye;' motion carried (5-0-0).

III. Citizen Comment

The Citizen Comment period opened at 6:01 pm and closed at 6:05 pm.

IV. Business

a. Welcome Alderman Salous.

Alderman Salous introduced himself. All members introduced themselves. Discussion only, no action taken.

b. Selection of Chair and Vice-Chair.

Chair
Member TenHaken nominated Vice Chair Swanson.

Vice-Chair
Member Pings nominated Alderman Salous.

Committee selected:
- Member Swanson as Chair
- Alderman Salous as Vice-Chair

c. Quarterly presentation by Stantec Consulting Services, Inc., 1st quarter of calendar year 2025 (Jan-Mar).

Kristen Gunderson-Inden of Stantec Consulting Services presented.

Member TenHaken moved and Alderman Hasan second a motion to accept and place on file. On voice vote, all voted 'aye', motion carried (5-0-0).

d. **Discussion about including confidential complaints in monitoring reports. [The Committee tabled this item at the previous meeting pending draft language for the monitoring report, such draft language is attached to the meeting packet for consideration of the Committee].**

Kristen Gunderson-Inden of Stantec Consulting Services presented.

Member Pings moved and Member TenHaken second a motion to accept draft. On voice vote, all voted 'aye', motion carried (5-0-0).

V. Schedule next meeting

Next meeting is scheduled for July 29, 2025

VI. Adjournment

Member Pings moved and Alderman Hasan seconded to adjourn the April 22, 2025 Quarry Monitoring Committee meeting at 6:34 pm. On voice vote, all voted 'aye;' motion carried (5-0-0).

Stantec Consulting Services Inc.
12308 North Corporate Parkway, Suite 600
Mequon WI 53092-2661

July 10, 2025

Project/File: 193710393

Regulo Martinez-Montilva
Planning Manager - Department of City Development
City of Franklin
9229 West Loomis Road
Franklin, Wisconsin 53132
RMartinez-Montilva@franklinwi.gov

Dear Regulo Martinez-Montilva,

Reference: City of Franklin, WI - Franklin Aggregates Quarry Monitoring Summary, Period: 2nd Quarter 2025

The enclosed information summarizes monitoring activities completed during the first quarter of 2025 by Stantec Consulting Services Inc. (Stantec) pertaining to the Franklin Aggregates, Inc. quarry (owned by Payne & Dolan, Inc.) located at 6211 W. Rawson Avenue, Franklin, Wisconsin (the Quarry). Stantec was retained by the City of Franklin to conduct a combination of direct observation (visual) monitoring, seismic monitoring of the quarry operations, and evaluation of citizen complaints. Separate descriptions of services and project background are provided in **Attachments A and B**, respectively. This letter summarizes the results.

Direct Observation (Visual) Monitoring

Copies of completed observation forms are prepared and posted to the project Teams site for review by City representatives. Copies of individual reports are not provided with this summary report.

Five observation events were completed during the monitoring period. Unannounced inspections were completed on May 12, May 27, June 4, and June 30; an announced inspection was performed on April 23. The street sweeper was observed in use on Rawson Avenue during four of the five visits. Typically, minor dust was observed from trucks exiting to the east and occasionally to the west on Rawson Avenue during the visits. No other issues were observed. The northwest gate was in use and the northeast gate was closed during all visits.

Seismic Monitoring

As contracted by the City, Stantec provided remote vibration monitoring using two seismographs co-located with two existing Payne & Dolan (Vibra-Tech) monitors at 7301 S. 51st Street (VT1 and S1) and 5800 W. Allwood Drive (VT4 and S2). The monitoring provides continuous (24/7) remote monitoring. Payne & Dolan also has monitors at 7526 S. 51st Street (VT2) and southeast of the quarry (VT3). On May 12 and 13, 2025, Payne & Dolan moved three of their monitors (VT2, VT3 and VT4) as discussed during the 1st Quarter Quarry Monitoring Committee Meeting. The meters are now located at 7575 S.. 51st Street (VT2), 7721 S. 51st Street (VT3) and 5324 W. Drexel Avenue (VT4). The two Stantec meters have remained in the same locations during this reporting period. Summaries of blasting data, comparing the Payne & Dolan unit recordings to the Stantec (Sauls Seismic) unit recordings, were prepared for the quarter, and are presented in **Attachment C**. **Figure 1** illustrates the locations of the blasts in the quarter.

Reference: City of Franklin, WI - Franklin Aggregates Quarry Monitoring Summary, Period: 2nd Quarter 2025

Highlights of the seismic data include the following:

- Between April 1 and June 30, 2025, a total of 16 blasting events occurred; 13 of 16 (81%) of these blasts were confirmed by the Stantec monitors.
- Per the Planned Development District agreements (PDD), 85% of the quarry's blasts within any calendar year must be below the maximum permissible vibration (of 0.30 inches per second (in/sec)), measured at the closest residence or inhabited structure not owned or controlled by the quarry. This is more stringent than State of Wisconsin regulations which require quarry operators to report any ground vibration levels to the Wisconsin Department of Natural Resources (WDNR) that are above 0.75 in/sec.
    - None of the blasting events measured by Payne & Dolan or Stantec had a vibration greater than 0.30 in/sec this quarter. 100% of the quarry's blasts year to date were below this level. This is in conformance with the PDD.
- Per the PDD, air blast resulting from P&D blasting shall not exceed 123 dB on at least 85% of its blasts within any single calendar year, measured at the residence or inhabited structure closest to the site of the blast which is not owned or controlled by the Operator. Notwithstanding any other provision in this subsection, the Operator shall not exceed the airblast limitation imposed by Wis. Adm. Code, SPS Ch. 307.
    - None of the blasting events measured by Payne & Dolan or Stantec had an air overpressure (AO) greater than 123dB this quarter. 100% of the quarry's blasts year to date were below this level. This is in conformance with the PDD.
- In general, the largest blast readings at each monitor appear to correlate with the proximity of the nearest adjacent blast location.
    - The corresponding blast data measured by Stantec with the Sauls Seismic monitors generally aligned with the readings at each Payne & Dolan sponsored Vibra-Tech monitor when meters were co-located. However, with the movement of the Payne & Dolan meters in mid-May, only the meter at 7301 S. 51st Street has a corresponding Stantec meter at this time. Sauls Seismic calibrated both of the Stantec units on April 8, 2025.

Blast Complaint Evaluation

A compilation of all blast events and complaints received by Stantec for the period April 1 through June 30, 2025, is provided as **Attachment C**. Note the following:

Note 1: Attachment C does not provide the actual complainant details (name, address, and phone number) if known; it was decided to have this information remain confidential in this report.

Note 2: Attachment C also includes and highlights complaints from property owners located in new housing development in the Marquette Avenue area known as *Lots in Pleasant View Reserve*. These property owners, by acceptance on their individual deeds for each lot, have accepted that the Quarry operation may have an effect on the use and enjoyment of their lot(s), and have waived their right to any objection(s). A summary of those complaints received this quarter is provided below:

- 0 number of complainants
- 0 number of complainants

Note 3: Complainant identity may be released upon public records request to the City of Franklin.

Aside from any complaints received from property owners as outlined in Note 2 above, the locations of all other blasts and complaints are shown on **Figure 1,** and the following highlights this information:

Complaints - General

- 0 complaint (formally submitted)
- 0 complaints (informally submitted – phone call only)
- 0 complaints – regarding material in the road
- 0 complaint – regarding vibration/noise

Complaints – Blast Related

- 0 complaint – corresponding to actual blast events
- 0 complaints – not corresponding to specific blast events
- 0 complaints – complainant requested location not be identified
  - 0 identified with general location: east of the Quarry
  - 0 identified with general location: south of the Quarry
  - 0 identified with general location: west of the quarry
- 0 complaints – complainant location identified

Complaints (non-anonymous or general location given; confirmed blast related) - Locations

- 0 complaints – east of 51st Street
- 0 complaint – south of Drexel Avenue
- 0 complaints – west of Root River

Summary of Complaint Comments – Blast Related

- There were no blast related complaints this quarter.

Summary of Complaint Comments – Non-Blast Related

- There were no non-blast related complaints this quarter.

Blast Events

- 16 blast events - during monitoring period 2Q2025 (shot numbers 19 through 34)
- 0 blast event - corresponding to complaints
  - 0 weather: rain or light rain
  - 0 weather: haze, partly to mostly cloudy, or cloudy
  - 0 weather: clear, fair, or scattered clouds
  - 0 time: prior to 12:00 pm (noon)
  - 0 time: after 12:00 pm
- 0 blast event with one complaint

Reference: City of Franklin, WI - Franklin Aggregates Quarry Monitoring Summary, Period: 2nd Quarter 2025

Quarry Blast Locations Producing Complaints

- 0 southern area of quarry
- 0 central area of quarry
- 0 northern area of quarry

Upon review of these results outlined above, on Figure 1, and in Attachment C, the following observations are made:

- No complaints were made for this quarter.

Please feel free to contact Mike Roznowski or Kristen Gunderson-Inden if you have any questions.

Sincerely,

STANTEC CONSULTING SERVICES INC.

Kristen Gunderson-Inden
Senior Environmental Scientist
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Mobile: (262) 665-3447
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Senior Principal
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Attachments: A - Franklin Quarry Seismic Monitoring Description of Services
B - Franklin Quarry Seismic Monitoring Project Background
C - Summary of Seismic Data – 2nd Quarter 2025
Figure 1 - Seismic Monitoring, Blasting, and Complaint Locations, 2nd Quarter 2025

Attachment A Franklin Quarry Seismic Monitoring
Description of Services

DESCRIPTION OF SERVICES

Direct Observation (Visual) Monitoring

During 2025, Stantec will conduct a total of fifteen (15) qualitative site visits at the quarry to observe and document whether the site was compliant with operational parameters defined in the existing Planned Development District (PDD) agreements, and to evaluate whether the quarry's general operations are consistent with best management practices employed by other similar quarries. Site visits are a combination of announced and unannounced, but all are conducted during normal business hours. The days of the week and times of the day for the visits vary. The observations are planned to be completed between April and October, when quarry operations are occurring, and airborne dust is more likely. Qualitative data to be collected includes the following:

- Visual observation of all aspects of the mining operation, including but not limited to:
    - Trucking operations, in particular pertaining to dust issues along Rawson Avenue
    - Operational issues that may affect local citizens in some form of adverse off-site impact
- Direct air quality observations, including:
    - General site and surrounding visual air quality, including opacity, in particular along Rawson Avenue
    - Dust control measures and issues on-site that may affect off-site receptors
    - Dust control issues directly adjacent off-site
    - Any other dust issues that may affect local citizens
- Quarry operations review (for announced visits), including:
    - Review of quarry records pertaining to dust control measures and recordkeeping, ensuring that the operator is following standard protocol to minimize off-site impacts, and evaluating how well and how quickly they respond to potential of actual off-site impact situations
    - Comparison of records to stated performance objectives and respective PDD compliance, only as they pertain to dust in general, and along Rawson Avenue in particular

The findings of each visit will be documented on a standard form previously approved by the City. The form will be filled out by hand during each site visit and then scanned/posted to a project SharePoint site for review by City representatives. Stantec also will obtain photos to document site or directly adjacent off-site conditions, and short-duration video clips (e.g., showing dust impacts). These photos and videos are also uploaded to the project SharePoint site.

In addition to the observations and record review, Stantec also will obtain and document on the inspection forms local meteorological conditions that were relevant to the observations (e.g., temperature, wind speed, wind direction, humidity, and precipitation).

Stantec also will notify the City Planning Manager of any condition (pertaining to air or dust monitoring, or other PDD condition) that we become aware of that exceeds the allowances outlined in the PDD. This communication will be completed prior to noon the business day following the day we become aware of any such event.

Seismic Monitoring

Stantec provides remote vibration monitoring using Nomis Seismographs. Sauls Seismic is subcontracted to operate two separate seismographs, which were co-located with two existing Payne & Dolan (Vibra-Tech) monitors at 7301 S. 51st Street (VT1 and S1) and 5800 W. Allwood Drive (VT4 and S2). Payne & Dolan also had monitors at 7526 S. 51st Street (VT2) and southeast of the quarry (VT3). On May 12 and 13, 2025, Payne & Dolan moved VT2, VT3 and VT4 monitors to locations at 7575 S.. 51st Street (VT2), 7721 S. 51st Street (VT3) and 5324 W. Drexel Avenue (VT4). The two Stantec meters remain at the same locations.

Each Sauls Seismic monitor is pole-mounted and provided with a weatherproof enclosure. Power is provided via an internal battery and an external battery connected to a solar panel. This type of configuration provides continuous (24/7) remote monitoring, allowing Stantec to have access to data anytime via the Internet.

Stantec also will notify the City Planning Manager of any condition (pertaining to blasting, noise or other PDD condition) that we become aware of that exceeded the allowances outlined in the PDD. This communication will be completed prior to noon the business day following the day we become aware of any such event.

Blast Complaint Evaluation

Periodically, the City forwards to Stantec specific information pertaining to quarry complaints received. Stantec evaluates each one on a quarterly basis to determine the following corresponding collaborative conditions:

- Off-site dust complaints: weather conditions (wind direction and speed) the day of the complaint
- Off-site seismic complaints: seismic data from both Stantec (if monitoring at the time) and Payne & Dolan placed monitors
- On occasion, the City may request an exceptional blast complaint evaluation if a blast event receives an unusually high number of complaints. A letter report will be issued by Stantec within approximately one week of the request that describes:
    - seismic data from both Stantec and Payne & Dolan placed monitors
    - weather conditions (wind direction and speed) the day of the complaint
    - a figure showing location of blast and complaints

Attachment B Franklin Quarry Seismic Monitoring Project Background

Background Summary

Seismic monitoring was completed to document whether the site was compliant with operational parameters defined in the existing Planned Development District (PDD) agreements. Prior to 2018, Stantec completed a variety of 2, 4, and 8-week seismic monitoring periods. During 2018, Stantec completed one 4-week period and one 16-week period of monitoring. Monitoring consisted of placing a city-owned and maintained Instantel MiniMate Plus fixed seismograph equipped with an external geophone at one of two city-established blast monitoring sites or vaults for each period. Seismic data was downloaded once every two weeks. Due to equipment limitations the data could not be downloaded remotely as it occurs (i.e., real time).

In 2019, Stantec provided remote vibration monitoring by using Nomis Seismographs. Sauls Seismic was subcontracted to install two separate seismographs, each co-located with two existing Payne & Dolan (Vibra-Tech) monitors located at: 7301 S. 51st Street, and 5800 W. Allwood Drive. Each monitor was pole-mounted and provided with a weatherproof enclosure. Power was provided via an internal battery and an external battery connected to a solar panel. This type of configuration provided continuous (24/7) remote monitoring, allowing Stantec to have access to data anytime via the Internet.

As contracted by the City for 2025, Stantec is providing remote vibration monitoring using two seismographs co-located with two existing Payne & Dolan (Vibra-Tech) monitors at 7301 S. 51st Street and 5800 W. Allwood Drive. The monitors provided continuous (24/7) remote monitoring. Quarterly summaries of blasting data, comparing the Payne & Dolan (Vibra-Tech) unit recordings to the Stantec (Sauls Seismic) unit recordings, will be prepared for the calendar year.

Per the PDD #23 and #24 Ordinances, 85% of the quarry's blasts within any calendar year must be below the maximum permissible vibration (also referred to as particle or ground velocity) of 0.30 inches per second (in/sec), measured at the closest residence or inhabited structure not owned or controlled by the quarry. This is more stringent than State of Wisconsin regulations (Wisconsin Department of Industry, Labor and Human Relations in ch.ILHR 7, Wis. Adm. Code on any blast [new reference now Wis. Adm. Code, Safety and Professional Services (SPS) Chapter 307]) which require quarry operators to report any ground vibration levels to the Wisconsin Department of Natural Resources that are above 0.75 in/sec.

Per the PDD #23 and #24 Ordinances, airblast resulting from P&D blasting shall not exceed 123 dB on at least 85% of its blasts within any single calendar year, measured at the residence or inhabited structure closest to the site of the blast which is not owned or controlled by the Operator. Notwithstanding any other provision in this subsection, the Operator shall not exceed the airblast limitation imposed by Wis. Adm. Code, SPS Ch. 307.

In addition to obtaining and reviewing the blast data from the city-owned, fixed seismograph, Stantec also received data from Payne & Dolan's Vibra-Tech (VT) meters, which provided independently-monitored Franklin Aggregate blasting data for the entire calendar year. Three of the four monitors used by Vibra-Tech at the start of 2025 were along South 51st Street, and one was just south of West Drexel Avenue. In May 2025, Payne & Dolan moved three of their monitors (VT2, VT3 and VT4) to new locations at 7575 S. 51st Street (VT2), 7721 S. 51st Street (VT3) and 5324 W. Drexel Avenue (VT4). VT1 remains at 7301 S. 51st Street. This independently monitored data was compared to the Stantec-obtained data

Attachment C Summary of Seismic Data – 2nd Quarter 2025

Payne & Dolan Blast Monitoring Data									Stantec Blast Monitoring Data			Comparison of P&D and Stantec Monitoring Data			Complaint Information			Weather (for complaints only)							
Date	Time	Activity Number	General Quarry Blast Location	Monitor Location	n	PPV (in/sec)	Freq (Hz)	AO (dB)	PPV (in/sec)	Freq (Hz)	AO (dB)	Difference in PPV Values	Difference in Freq Values	Difference in AO dB Values	Com-plaints?	#	Primary direction of complaints (from quarry)	Wind Direc-tion	Wind Speed (mph)	Wind Gusts (mph)	Press-ure (in)	Humi-dity (%)	Condi-tions	Precip-itation	Temp. (°F)
4/1/2025	45748.4694	19	central	5800 ALLWOOD	2,628	0.028	35.7	110	N/D	N/D	N/D	--	--	--	No										
4/1/2025	45748.4694	19	central	7301 S 51st Street	1861	0.030	13.5	107	N/D	N/D	N/D	--	--	--											
4/1/2025	45748.4694	19	central	7526 S. 51st Street	1,010	0.103	25	110																	
4/1/2025	45748.4694	19	central	SE of Quarry	1,149	0.078	27.8	108																	
4/16/2025	45763.6424	20	north	5800 ALLWOOD	3,920	N/D	N/D	N/D	N/D	N/D	N/D	--	--	--	No										
4/16/2025	45763.6424	20	north	7301 S 51st Street	719	N/D	N/D	N/D	0.2300	34.1	102.8	--	--	--											
4/16/2025	45763.6424	20	north	7526 S. 51st Street	1,304	N/D	N/D	N/D																	
4/16/2025	45763.6424	20	north	SE of Quarry	2,298	N/D	N/D	N/D																	
4/22/2025	45769.5451	21	north	5800 ALLWOOD	3,937	N/D	N/D	N/D	N/D	N/D	N/D	--	--	--	No										
4/22/2025	45769.5451	21	north	7301 S 51st Street	826	0.248	35.7	106	0.2150	36.5	100.0	0.033	-0.800	5.995											
4/22/2025	45769.5451	21	north	7526 S. 51st Street	1,453	0.100	27.8	109																	
4/22/2025	45769.5451	21	north	SE of Quarry	2,409	0.028	16.7	108																	
4/23/2025	45770.5347	22	north	5800 ALLWOOD	3,915	N/D	N/D	N/D	N/D	N/D	N/D	--	--	--	No										
4/23/2025	45770.5319	22	north	7301 S 51st Street	897	0.188	31.3	110	0.1850	34.1	103.5	0.003	-2.800	6.474											
4/23/2025	45770.5319	22	north	7526 S. 51st Street	1,503	0.108	27.8	111																	
4/23/2025	45770.5319	22	north	SE of Quarry	2,433	0.050	21.7	109																	
4/23/2025	45770.5903	23	north	5800 ALLWOOD	4,134	N/D	N/D	N/D	N/D	N/D	N/D	--	--	--	No										
4/23/2025	45770.584	23	north	7301 S 51st Street	1152	0.120	41.7	109	0.1000	28.4	103.5	0.020	13.300	5.474											
4/23/2025	45770.584	23	north	7526 S. 51st Street	1,928	0.060	25	114																	
4/23/2025	45770.5903	23	north	SE of Quarry	2,825	N/D	N/D	N/D																	
4/24/2025	45771.5	24	north	5800 ALLWOOD	3,882	N/D	N/D	N/D	N/D	N/D	N/D	--	--	--	No										
4/24/2025	45771.5375	24	north	7301 S 51st Street	1,458	0.070	13.2	115	0.0650	9.4	106.0	0.005	3.800	8.975											
4/24/2025	45771.5375	24	north	7526 S. 51st Street	2,017	0.063	16.1	114																	
4/24/2025	45771.5375	24	north	SE of Quarry	2,779	0.023	15.2	112																	
4/30/2025	45777.5139	25	north	5800 ALLWOOD	4,011	N/D	N/D	N/D	N/D	N/D	N/D	--	--	--	No										
4/30/2025	45777.4611	25	north	7301 S 51st Street	871	0.155	62.5	110	0.1625	64.0	101.9	-0.008	-1.500	8.057											
4/30/2025	45777.4611	25	north	7526 S. 51st Street	1,579	0.108	21.7	111																	
4/30/2025	45777.4611	25	north	SE of Quarry	2,528	0.038	17.9	109																	
5/5/2025	45782.5139	26	north	5800 ALLWOOD	4,150	N/D	N/D	N/D	N/D	N/D	N/D	--	--	--	No										
5/5/2025	45782.5069	26	north	7301 S 51st Street	1,078	0.153	41.7	105	0.1025	46.5	100.0	0.050	-4.800	4.995											
5/5/2025	45782.5069	26	north	7526 S. 51st Street	1,878	0.065	38.5	113																	
5/5/2025	45782.5139	26	north	SE of Quarry	2,796	N/D	N/D	N/D																	
5/8/2025	45785.5139	27	north	5800 ALLWOOD	4,194	N/D	N/D	N/D	N/D	N/D	N/D	--	--	--	No										
5/8/2025	45785.5132	27	north	7301 S 51st Street	1,200	0.265	35.7	111	0.1725	28.4	105.5	0.093	7.300	5.535											
5/8/2025	45785.5132	27	north	7526 S. 51st Street	2,010	0.078	33.3	115																	
5/8/2025	45785.5139	27	north	SE of Quarry	2,907	N/D	N/D	N/D																	
5/14/2025	45791.4722	28	north	5324 W. Drexel Ave.	3,904	N/D	N/D	N/D																	
5/14/2025	45791.4722	28	north	5800 ALLWOOD					N/D	N/D	N/D	--	--	--	No										
5/14/2025	45791.4688	28	north	7301 S 51st Street	998	0.175	26.3	107	0.1300	23.2	100.0	0.045	3.100	6.995											
5/14/2025	45791.4688	28	north	7575 S. 51st St.	2,128	0.040	26.3	104																	
5/14/2025	45791.4722	28	north	7721 S. 51st St.	3,121	N/D	N/D	N/D																	
5/29/2025	45806.4542	29	central	5324 W. Drexel Ave.	2,050	0.058	31.3	113							No										
5/29/2025	45806.4542	29	central	5800 ALLWOOD					N/D	N/D	N/D	--	--	--											
5/29/2025	45806.4542	29	central	7301 S 51st Street	2,090	0.038	27.8	115	N/D	N/D	N/D	--	--	--											

Payne & Dolan Blast Monitoring Data									Stantec Blast Monitoring Data			Comparison of P&D and Stantec Monitoring Data			Complaint Information			Weather (for complaints only)							
Date	Time	Activity Number	General Quarry Blast Location	Monitor Location	n	PPV (in/sec)	Freq (Hz)	AO (dB)	PPV (in/sec)	Freq (Hz)	AO (dB)	Difference in PPV Values	Difference in Freq Values	Difference in AO dB Values	Com-plaints?	#	Primary direction of complaints (from quarry)	Wind Direc-tion	Wind Speed (mph)	Wind Gusts (mph)	Press-ure (in)	Humi-dity (%)	Condi-tions	Precip-itation	Temp. (°F)
5/29/2025	45806.4542	29	central	7575 S. 51st St.	1,113	0.115	33.3	115																	
5/29/2025	45806.4542	29	central	7721 S. 51st St.	1,547	0.063	16.7	108																	
5/30/2025	45807.5139	30	north	5324 W. Drexel Ave.	3,974	N/D	N/D	N/D							No										
5/30/2025	45807.5139	30	north	5800 ALLWOOD					N/D	N/D	N/D	--	--	--											
5/30/2025	45807.5125	30	north	7301 S 51st Street	1,085	0.1075	20	116	0.0875	17.6	108.0	0.020	2.4	8.0											
5/30/2025	45807.5139	30	north	7575 S. 51st St.	2,230	N/D	N/D	N/D																	
5/30/2025	45807.5139	30	north	7721 S. 51st St.	3,215	N/D	N/D	N/D																	
6/2/2025	45810.4736	31	central	5324 W. Drexel Ave.	2,050	0.0725	26.3	112							No										
6/2/2025	45810.4736	31	central	5800 ALLWOOD					0.0375	34.1	108.8	--	--	--											
6/2/2025	45810.4736	31	central	7301 S 51st Street	2,090	0.035	15.2	110	N/D	N/D	N/D	--	--	--											
6/2/2025	45810.4736	31	central	7575 S. 51st St.	1,113	0.1725	16.7	115																	
6/2/2025	45810.4736	31	central	7721 S. 51st St.	1,547	0.1075	20.8	110																	
6/10/2025	45818.4965	32	central	5324 W. Drexel Ave.	2,253	0.09	29.4	113							No										
6/10/2025	45818.4965	32	central	5800 ALLWOOD					0.0425	36.5	102.8	--	--	--											
6/10/2025	45818.4965	32	central	7301 S 51st Street	1,878	0.04	27.8	112	N/D	N/D	N/D	--	--	--											
6/10/2025	45818.4965	32	central	7575 S. 51st St.	1,060	0.1275	12.2	116																	
6/10/2025	45818.4965	32	central	7721 S. 51st St.	1,651	0.075	13.5	112																	
6/12/2025	45820.4743	33	central	5324 W. Drexel Ave.	1,950	0.075	12.5	113							No										
6/12/2025	45820.4743	33	central	5800 ALLWOOD					N/D	N/D	N/D	--	--	--											
6/12/2025	45820.4743	33	central	7301 S 51st Street	2,141	0.035	22.7	109	N/D	N/D	N/D	--	--	--											
6/12/2025	45820.4743	33	central	7575 S. 51st St.	1,043	0.185	27.8	115																	
6/12/2025	45820.4743	33	central	7721 S. 51st St.	1,423	0.08	16.7	110																	
6/20/2025	45828.5694	34	north	5324 W. Drexel Ave.	3,671	N/D	N/D	N/D							No										
6/20/2025	45828.5694	34	north	5800 ALLWOOD					N/D	N/D	N/D	--	--	--											
6/20/2025	45828.5639	34	north	7301 S 51st Street	1,017	0.1525	8.6	115	0.1275	8.8	109.2	0.025	-0.2	5.8											
6/20/2025	45828.5639	34	north	7575 S. 51st St.	1,932	0.0375	25	117																	
6/20/2025	45828.5694	34	north	7721 S. 51st St.	2,904	N/D	N/D	N/D																	
Totals		**16**	**blast events**												**0**	**0**	**events with complaints / total complaints**								

north

Notes: Shaded cells do not have a meter in that location
N/D = not detected, meter did not detect blast
Payne and Dolan moved three meters May 12 and 13, 2025 resulting in new meter locations.

Figure 1 Seismic Monitoring, Blasting, and Complaint Locations, 2nd Quarter 2025

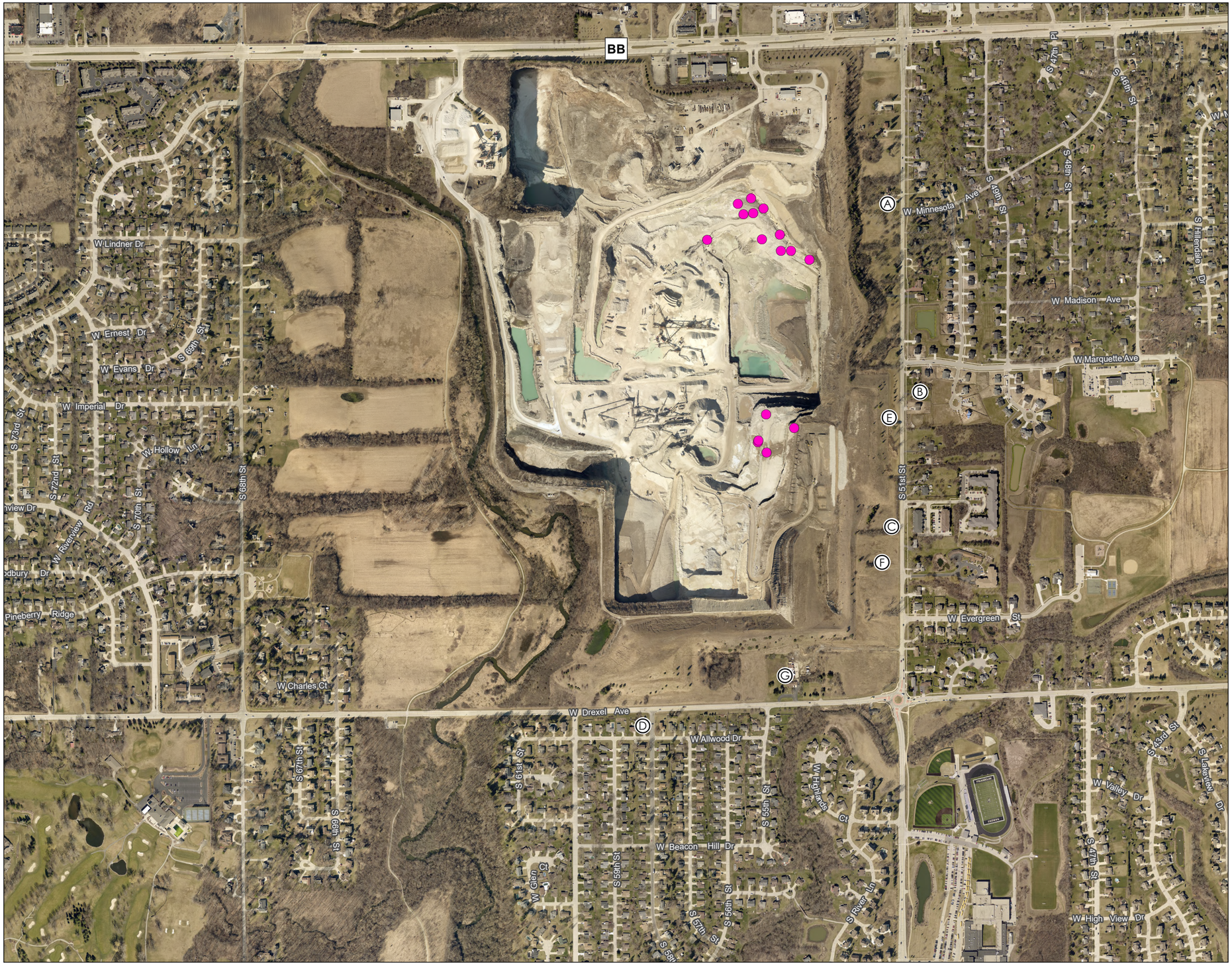


Figure No.

1

Title

Seismic Monitoring, Blasting, and Complaint Locations - 2nd Quarter 2025

Client/Project 193710393

City of Franklin
Vicinity of Payne and Dolan Quarry

Project Location
C. of Franklin, Milwaukee Co., WI

Prepared by AJS on 2025-07-01
TR by DG on 2025-07-01
IR by KGI on 2025-07-01

N

0 400 800 Feet
(At original document size of 11x17)
1:400,000

Legend

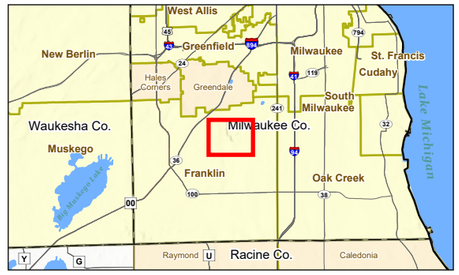
Seismic Monitoring Location

- (A) Vibra-Tech(VT1) and Stantec(S1)
- (B) Vibra-Tech(VT2)[1]
- (C) Vibra-Tech(VT3)[1]
- (D) Vibra-Tech(VT4)[1] and Stantec(S2)
- (E) Vibra-Tech(VT2)[2]
- (F) Vibra-Tech(VT3)[2]
- (G) Vibra-Tech(VT4)[2]
- Non-complaint Blast Location

Complaint Area

- Marquette Ave Area
- Root River Heights

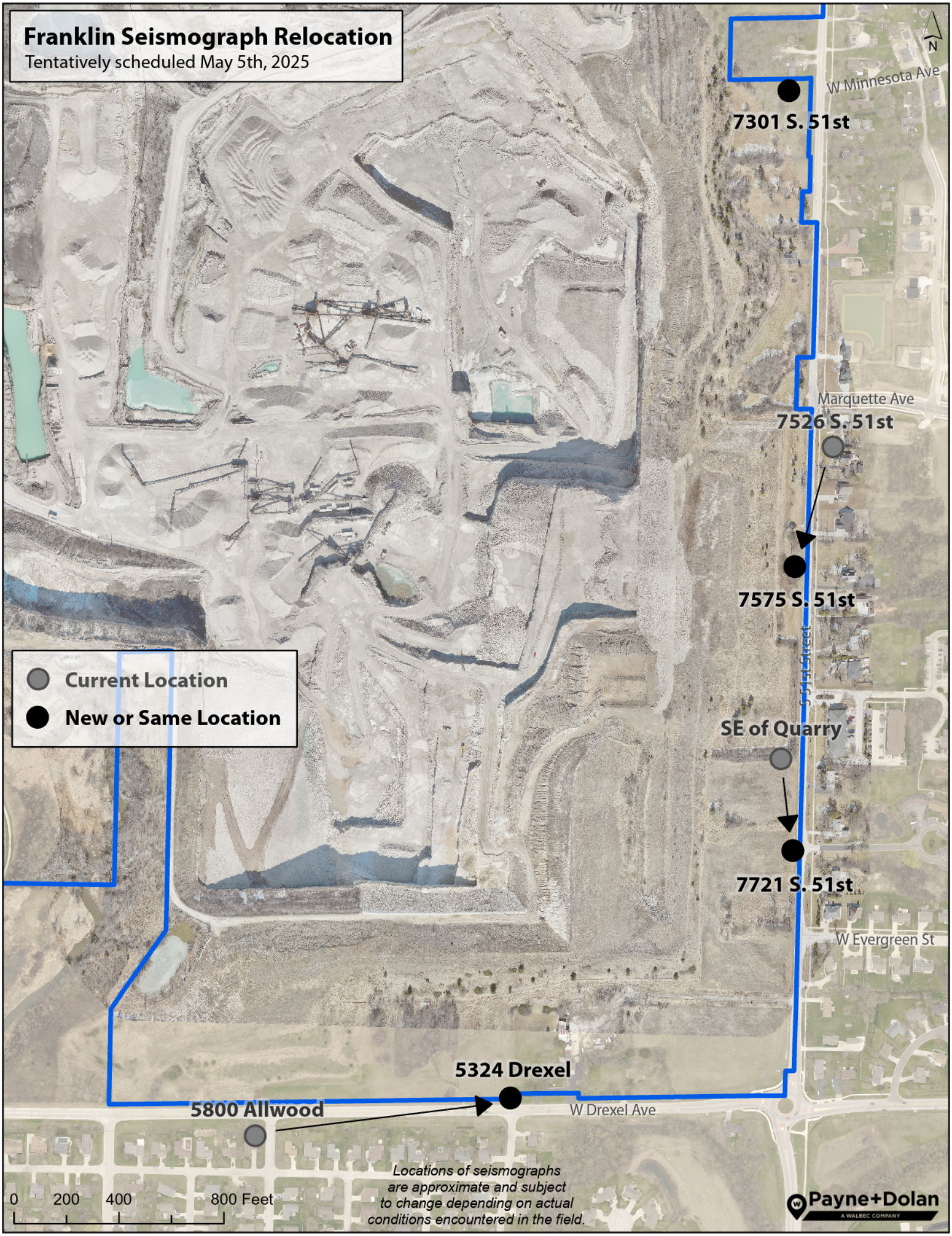
1: Monitoring Locations Prior to May 11, 2025
2: Monitoring Locations After May 13, 2025



Notes

1. Coordinate System: NAD 1983 StatePlane Wisconsin South FIPS 4803 Feet
2. Data Sources: Stantec, SCO, WDNR, WisDOT
3. Orthophotography: 2022 NAIP

Stantec


Franklin Seismograph Relocation
Tentatively scheduled May 5th, 2025
N
W Minnesota Ave
7301 S. 51st
Marquette Ave
7526 S. 51st
7575 S. 51st
51st Street
Current Location
New or Same Location
SE of Quarry
7721 S. 51st
W Evergreen St
5324 Drexel
5800 Allwood
W Drexel Ave
Locations of seismographs are approximate and subject to change depending on actual conditions encountered in the field.
0 200 400 800 Feet
Payne+Dolan
A WALBEC COMPANY