

CITY OF FRANKLIN
QUARRY MONITORING COMMITTEE*
MEETING AGENDA

Franklin City Hall, **Council Chambers**
9229 West Loomis Road, Franklin, Wisconsin 53132
Thursday, April 29, 2021, 6:00 p.m.

- I. Call to Order, Roll Call and Pledge of Allegiance
- II. Approval of Minutes
 - a. Regular meeting of March 25, 2021.
- III. Citizen Comment Period
PLEASE NOTE: Due to the anticipated number of citizens who may attend, each speaker may need to be limited to three minutes, allowing everyone who wishes the opportunity to speak.
- IV. Hearings
- V. Business (Action may be taken on any item)
 - a. Quarterly presentation by Stantec Consulting Services, Inc. (1st quarter of calendar year 2021).
 - b. Review and discussion on matters pertaining to citizen complaints, blasting data from Payne & Dolan and Stantec (the City's consultant).
- VI. Meeting scheduling discussion
- VII. 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
Quarry Monitoring Committee Meeting
Council Chambers, Franklin City Hall
6:00 PM
March 25, 2021
Minutes

unapproved

I. CALL TO ORDER

The March 25, 2021, Quarry Monitoring Committee meeting was called to order by Alderwoman Wilhelm at 6:00 p.m. in the Council Chambers at City Hall.

Alderwoman Kristen Wilhelm, Alderman Mike Barber and member Jon TenHaken were present at the Council Chambers. Member Dina Swanson (non-voting) was present by phone, member Fred Knueppel called in at 6:11 p.m. Member Dallas Schurg was excused. Also present was Principal Planner Martínez-Montilva at the Council Chambers. The representative of the quarry operator Clint Weninger, as well as Mike Roznowski and Kristen Gunderson-Inden of Stantec Consulting Services were present by phone.

II. APPROVAL OF THE MINUTES

- a. Regular meeting of December 17, 2020.

Alderman Barber moved and member TenHaken seconded to approve the minutes as presented. On voice vote, all present voted 'aye'; the vote was 3-0-2, motion carried.

III. CITIZEN COMMENT PERIOD

Citizen comment period opened at 6:03 p.m. and closed at 6:03 p.m. No citizen comments.

IV. HEARINGS

- a. None.

No action needed. None taken.

V. BUSINESS

- a. Welcome new member Jon TenHaken.

Member Jon TenHaken introduced himself to the committee. No action needed, no action taken.

- b. Quarterly presentation by Stantec Consulting Services, Inc. (4th quarter of calendar year 2020).

Kristen Gunderson-Inden presented the report, seismic data tables and map of the 4th quarter of calendar year 2020. Alderman Barber suggested to upload these quarterly reports as separate documents to the city's website, Principal Planner Martínez-Montilva noted that these quarterly reports are already available on the city's website as part of the meeting packets.

Alderman Wilhelm suggested for future meetings to add the same monthly Vibra-Tech information sheet(s) within the packet so the Vibra-Tech sheets match equivalent dates provided within the Stantec quarterly report. While Kristen Gunderson-Inden noted that the Vibra-Tech data is included in the quarterly reports, Vibra-Tech data cycles ahead of the full Stantec report.

No action needed, no action taken.

- c. Review and discussion on matters pertaining to citizen complaints, blasting data from Payne & Dolan and Stantec (the City's consultant).

Principal Planner Martínez-Montilva informed the Committee that the city has received a total of 7 complaints so far in the calendar year 2021. 1 for the January 13, and 6 for the March 12, blast events, the recorded blasting levels for these events are in compliance with the maximum limits of the Planned Development District (PDD).

Member Dina Swanson asked about the meaning of the numbers in red of the Vibra-Tech data table. Clint Weninger of Payne & Dolan (quarry operator) explained the peak particle velocity (PPV) and air overpressure (AO) columns of the Vibra-Tech table, and clarified that red numbers are the highest recorded values of each blast event.

No action needed, no action taken.

- d. Annual aerial photographs (2020).

Alderwoman Kristen Wilhelm suggested that the quarry operator provide a digital copy of the aerial photograph to the Department of City Development, to which Operator, Clint stated he could provide Staff a digital copy at a resolution that could receive electronically.

- e. Annual reclamation report (2020).

Principal Planner Martínez-Montilva noted that the acreages of reclaimed and active areas have not changed with respect to calendar year 2019.

- f. Reclamation Plan update; including previous Committee and Common Council actions.

Alderwoman Kristen Wilhelm moved and member TenHaken seconded *to recommend that the Reclamation Plan with updates be provided to the Common Council as ready for review by the Plan Commission*. On voice vote, all present members voted 'aye'; the vote was 4-0-1, motion carried.

VI. SCHEDULE NEXT MEETING

It was agreed that the next meeting of the Quarry Monitoring Committee would tentatively be on April 29, 2021, based on quorum.

VII. ADJOURNMENT

Alderman Barber moved and member TenHaken seconded to adjourn the March 25, 2021, Quarry Monitoring Committee meeting at 6:49 p.m. All present voted 'aye'; motion carried.



Stantec Consulting Services Inc.
1165 Scheuring Road
De Pere, Wisconsin 54115
Tel: (920) 592-8400
Fax: (920) 592-8444

April 13, 2021

Heath Eddy
Planner - Department of City Development
City of Franklin
9229 W. Loomis Road
Franklin, Wisconsin 53132
HEddy@franklinwi.gov

Reference: City of Franklin, WI – Franklin Aggregates Quarry Monitoring Summary
Period: 1st Quarter 2021
Stantec Project: 193707487

Dear Mr. Eddy:

The enclosed information summarizes monitoring activities completed during the first quarter of 2021 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 description 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 FTP site for review by City representatives. Copies of individual reports are not provided with this summary report.

No observation events were completed during the monitoring period; observation events for 2021 will commence in the second quarter. Limited blasting occurred at the Quarry in the first quarter.

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). Summaries of blasting data, comparing the Payne & Dolan unit recordings, to the Stantec (Sauls Seismic) unit recordings, were prepared for the for the quarter and are presented in Attachment C. Figure 1 illustrates the locations of the blasts in the first quarter.

Highlights of the seismic data include the following:

- Between January 1 and March 31, 2020, a total of 9 blasting events occurred. A total of 8 (89%) 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 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; thus 100% of the quarry's blasts were below this level.

Reference: City of Franklin, WI – Franklin Aggregates Quarry Monitoring Summary
Period: 1Q2021

- Per the PDD, 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.
 - None of the blasting events measured by Payne & Dolan or Stantec had an air overpressure (AO) greater than 123dB; thus 100% of the quarry's blasts were below this level. This is in conformance with the PDD.
- The corresponding blast data measured by Stantec with the Sauls Seismic monitors closely aligned with the readings at each Payne & Dolan sponsored Vibra-Tech monitors. It should be noted that in addition to the fact the monitors are produced by different manufacturers, there are a variety of variables that can influence actual PPV readings.
- In general, the largest blast readings at each monitor appear to correlate with the proximity of the nearest adjacent blast location.

Blast Complaint Evaluation

A compilation of all complaints received by Stantec for the period January 1 through March 31, 2021 is provided as Attachment C. Note that 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. The locations of all blasts and complaints are shown on Figure 1. The following highlights the results of the complaint evaluation:

Complaints - General

- 7 complaints – total (Note: some complaints were for multiple reasons)
- 1 complaint – regarding noise
- 0 complaints – regarding dust
- 0 complaints – miscellaneous
- 7 complaints – regarding vibration

Complaints – Blast Related

- 7 complaints – corresponding to actual blast events
(two were from the same address for the same blast event)
- 0 complaints – not corresponding to actual blast events
- 7 complaints – complainant location identified
 - 7 households that complained once each
 - 0 complaints – no name and address provided (requested confidentiality)

Complaints (non-anonymous; confirmed blast related) - Locations

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

Reference: City of Franklin, WI – Franklin Aggregates Quarry Monitoring Summary
Period: 1Q2021Blast Events

- 9 blast events - during monitoring period 1Q2021 (shot numbers 1 through 9)
- 2 blast events - corresponding to complaints
 - 0 weather: rain
 - 2 weather: partly to mostly cloudy, or cloudy
 - 0 weather: fair or scattered clouds
 - 1 time: prior to 12:00 pm (noon)
 - 1 time: after 12:00 pm
- 1 blast event with one complaint (January 13, 2021)
- 1 blast event with six complaints (March 12, 2021)

Quarry Blast Locations Producing Complaints

- 1 southern area of quarry
- 0 eastern area of quarry
- 1 northeastern area of quarry

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

- Very few, if any, quarry operational complaints are made regarding dust or truck traffic. Most complaints focus on quarry blasting and resulting ground vibrations. There were fewer noise complaints this quarter than the last quarter.
- Most of the complaints (86%) in this quarter originate from residences south of Drexel Avenue.
- All of the complaints were related to two blasts (#1 on January 13 and #4 on March 12).
 - a. Blast #1 was in the northeast portion of the quarry and the complaint was nearly due east of the location and east of 51st Street.
 - b. Blast #4 was in the southern portion of the quarry and all of those complaints were from south of Drexel Avenue.
- No complaints came from west of the Root River.
- Due to COVID-19, residents may have been at home more during the day than historically typical.



April 13, 2021
Page 4 of 4

Reference: City of Franklin, WI – Franklin Aggregates Quarry Monitoring Summary
Period: 1Q2021

Please feel free to contact Mike Roznowski at 920-278-3200 or mike.roznowski@stantec.com; or Kristen Gunderson-Inden at 262-665-3447 or kristen.gunderson-inden@stantec.com if you have any questions.

Respectfully,

STANTEC CONSULTING SERVICES INC.

A handwritten signature in blue ink, appearing to read 'Kristen Gunderson-Inden'.

Kristen Gunderson-Inden
Environmental Scientist

A handwritten signature in blue ink, appearing to read 'Michael B. Roznowski'.

Michael B. Roznowski, CHMM
Senior Principal

Attachments A - Franklin Quarry Seismic Monitoring Description of Services
 B - Franklin Quarry Seismic Monitoring Project Background
 C – Summary of Seismic Data – 1st Quarter 2021
 Figure 1 - Seismic Monitoring, Blasting, and Complaint Locations, 1st Quarter 2021

ATTACHMENT A

FRANKLIN QUARRY SEISMIC MONITORING DESCRIPTION OF SERVICES

DESCRIPTION OF SERVICES

Direct Observation (Visual) Monitoring

During 2020, Stantec will conduct a total of ten (10) 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 will 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 file transfer protocol (FTP) 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 FTP 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 by using Nomis Seismographs. Sauls Seismic is subcontracted to operate 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 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, Stantec provided 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 monitor provided continuous (24/7) remote monitoring. Monthly summaries of blasting data, comparing the Payne & Dolan (Vibra-Tech) unit recordings, to the Stantec (Sauls Seismic) unit recordings, were prepared for the months April through December.

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 meters, which provided independently monitored Franklin Aggregate blasting data for the entire calendar year. Four monitors are used by Vibra-Tech, three along South 51st Street, and one just south of West Drexel Avenue. This independently monitored data was compared to the Stantec-obtained data.

ATTACHMENT C

SUMMARY OF SEISMIC DATA – 1ST QUARTER 2021

Payne & Dolan Blast Monitoring Data							Stantec Blast Monitoring Data		Comparison of P&D and Stantec Monitoring Data		Complaint Information			Weather (for complaints only)							
Date and Time	Activity Number	General Quarry Blast Location	Monitor Location	Distance (feet)	PPV (in/sec)	AO (dB)	PPV (in/sec)	AO (dB)	Difference in PPV Values	Difference in AO dB Values	Com-plaints?	#	Primary direction of complaints (from quarry)	Wind Direction	Wind Speed (mph)	Wind Gusts (mph)	Pressure (in)	Humidity (%)	Conditions	Precipi-tation	Temp. (°F)
1/13/2021 11:40	1		5800 ALLWOOD	3,552	N/D	N/D	N/D	N/D	--	--	yes	1		WSW	10	none	29.02	70	mostly	none	37
1/13/2021 11:39	1		7301 S 51st Street	1,000	0.088	107	0.09	98	-0.002	9											
1/13/2021 11:39	1		7526 S. 51st Street	1,102	0.08	111															
1/13/2021 11:39	1		SE of Quarry	1,973	0.035	108															
1/15/2021 10:15	2		5800 ALLWOOD	3,836	N/D	N/D	N/D	N/D	--	--	no										
1/15/2021 10:14	2		7301 S 51st Street	878	0.028	96	N/D	N/D	--	--											
1/15/2021 10:15	2		7526 S. 51st Street	1,389	N/D	N/D															
1/15/2021 10:15	2		SE of Quarry	2,317	N/D	N/D															
1/21/2021 12:00	3		5800 ALLWOOD	3,492	N/D	N/D	N/D	N/D	--	--	no										
1/21/2021 11:56	3		7301 S 51st Street	1,167	0.068	116	0.06	101	0.008	15											
1/21/2021 11:56	3		7526 S. 51st Street	1,310	0.06	115															
1/21/2021 11:56	3		SE of Quarry	2,084	0.043	115															
3/12/2021 12:16	4		5800 ALLWOOD	1,522	0.043	114	0.06	111	-0.017	3	yes	6		WNW	13	22	29.67	36	partly	none	48
3/12/2021 12:16	4		7301 S 51st Street	2,968	N/D	N/D	N/D	N/D	--	--											
3/12/2021 12:17	4		7526 S. 51st Street	1,956	0.065	109															
3/12/2021 12:16	4		SE of Quarry	1,245	0.135	108															
3/22/2021 10:30	5		5800 ALLWOOD	3,854	N/D	N/D	N/D	N/D	--	--	no										
3/22/2021 10:24	5		7301 S 51st Street	789	0.163	107	0.13	99	0.033	8											
3/22/2021 10:24	5		7526 S. 51st Street	1,298	0.06	109															
3/22/2021 10:30	5		SE of Quarry	2,264	N/D	N/D															
3/26/2021 10:05	6		5800 ALLWOOD	3,720	N/D	N/D	N/D	N/D	--	--	no										
3/26/2021 10:06	6		7301 S 51st Street	1,005	0.103	106	0.08	99	0.023	7											
3/26/2021 10:06	6		7526 S. 51st Street	1,398	0.055	114															
3/26/2021 10:05	6		SE of Quarry	2,266	N/D	N/D															
3/26/2021 12:05	7		5800 ALLWOOD	3,882	N/D	N/D	N/D	N/D	--	--	no										
3/26/2021 12:07	7		7301 S 51st Street	796	0.048	108	0.05	101	-0.002	7											
3/26/2021 12:07	7		7526 S. 51st Street	1,348	0.043	112															
3/26/2021 12:05	7		SE of Quarry	2,311	N/D	N/D															
3/31/2021 9:45	8		5800 ALLWOOD	3,882	N/D	N/D	N/D	N/D	--	--	no										
3/31/2021 9:42	8		7301 S 51st Street	841	0.07	107	0.09	99	-0.020	8											
3/31/2021 9:42	8		7526 S. 51st Street	1,403	0.055	114															
3/31/2021 9:45	8		SE of Quarry	2,349	N/D	N/D															
3/31/2021 12:00	9		5800 ALLWOOD	3,896	N/D	N/D	N/D	N/D	--	--	no										
3/31/2021 12:00	9		7301 S 51st Street	847	0.063	108	0.05	101	0.013	7											
3/31/2021 12:00	9		7526 S. 51st Street	1,428	0.04	116															
3/31/2021 12:00	9		SE of Quarry	2,372	N/D	N/D															
Totals	9	blast events									2	7									

Notes: Shaded cells do not have a meter in that location
 N/D = not detected, meter did not detect blast

FIGURE 1

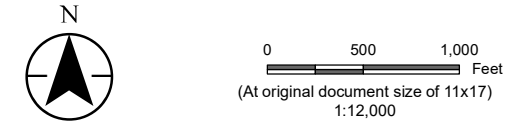
SEISMIC MONITORING, BLASTING, AND COMPLAINT LOCATIONS, 1ST QUARTER 2021



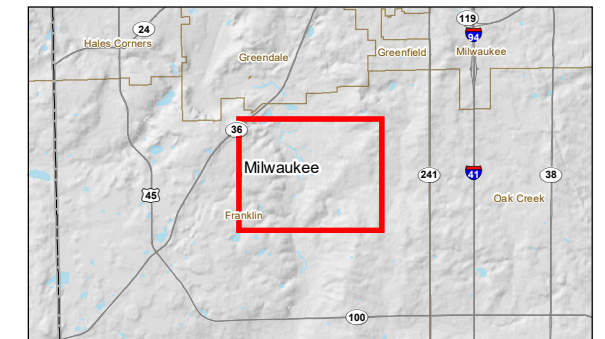
Figure No. **1**
Seismic Monitoring, Blasting, and Complaint Locations - 1st Quarter 2021

Client/Project: City of Franklin, Vicinity of Payne and Dolan Quarry
 193707487

Project Location: C. of Franklin, Milwaukee Co., WI
 Prepared by: TR by MZ on 2021-04-13, IR by KGI on 2021-04-13



- Legend**
- Seismic Monitoring Location**
- (A) Vibra-Tech(VT1) and Stantec(S1)
 - (B) Vibra-Tech(VT2)
 - (C) Vibra-Tech(VT3)
 - (D) Vibra-Tech(VT4) and Stantec(S2)
- Blast Location**
- Non-complaint Blast Locations
 - January 13th 2021 Blast Location (Blast #1)
 - March 12th 2021 Blast Location (Blast #4)
- Blast Complaint**
- ▲ Blast #1
 - ▲ Blast #4



Notes

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



V:\1937\active\193707487\03_data\gls_cad\gls\mxd\2021_1st_Quarter_Report\fig_1_Seismic_Complaints_193707487.mxd Revised: 2021-04-13 By: aswam

Franklin Aggregates
Recorded Ground Vibration and Airblast Levels for PDDs #23 & 24
January 2021

Time	Activity	Location	Distance	PPV	Freq	AO
1/21/2021 11:56	3	5800 ALLWOOD	3,492	N/T	N/T	N/A
1/21/2021 11:56	3	7526 S. 51st Street	1,310	0.06	19.2	115
1/21/2021 11:56	3	SE of Quarry	2,084	0.043	20.8	115
1/21/2021 11:56	3	7301 S 51st Street	1,167	0.068	45.5	116
1/15/2021 10:15	2	5800 ALLWOOD	3,836	N/T	N/T	N/A
1/15/2021 10:15	2	7526 S. 51st Street	1,389	N/T	N/T	N/A
1/15/2021 10:15	2	SE of Quarry	2,317	N/T	N/T	N/A
1/15/2021 10:15	2	7301 S 51st Street	878	0.028	50	96
1/13/2021 11:39	1	5800 ALLWOOD	3,552	N/T	N/T	N/A
1/13/2021 11:39	1	7526 S. 51st Street	1,102	0.08	20	111
1/13/2021 11:39	1	SE of Quarry	1,973	0.035	18.5	108
1/13/2021 11:39	1	7301 S 51st Street	1,000	0.088	45.5	107

PDD Vibration Limit - Per the PDD #23 and #24 Ordinances, ground vibration resulting from P&D blasting shall not exceed 0.30 inches per second on at least 85% of its blasts within any single calendar year. The Operator shall not exceed the ground vibration limitation imposed by the Wisconsin Department of Industry, Labor and Human Relations in Figure 7.64 of ch. ILHR 7, Wis. Adm. Code (new reference now Wis. Adm. Code, Safety and Professional Services Chapter 307), or 0.65 inches per second, whichever is more restrictive, on any blast.

PDD Airblast Limit - 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. The Operator shall not exceed the airblast limitation imposed by the 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).

**Franklin Aggregates
Recorded Ground Vibration and Airblast Levels for PDDs #23 & 24
February 2021**

Time	Activity	Location	Distance	PPV	Freq	AO
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NO BLASTING THIS MONTH

Franklin Aggregates
Recorded Ground Vibration and Airblast Levels for PDDs #23 & 24
March 2021

Time	Activity	Location	Distance	PPV	Freq	AO
3/31/2021 12:00	9	5800 ALLWOOD	3,896	N/T	N/T	N/A
3/31/2021 12:00	9	7526 S. 51st Street	1,428	0.04	26.3	116
3/31/2021 12:00	9	SE of Quarry	2,372	N/T	N/T	N/A
3/31/2021 12:00	9	7301 S 51st Street	847	0.063	31.3	108
3/31/2021 9:42	8	5800 ALLWOOD	3,882	N/T	N/T	N/A
3/31/2021 9:42	8	7526 S. 51st Street	1,403	0.055	31.3	114
3/31/2021 9:42	8	SE of Quarry	2,349	N/T	N/T	N/A
3/31/2021 9:42	8	7301 S 51st Street	841	0.07	29.4	107
3/26/2021 12:05	7	5800 ALLWOOD	3,882	N/T	N/T	N/A
3/26/2021 12:05	7	7526 S. 51st Street	1,348	0.043	29.4	112
3/26/2021 12:05	7	SE of Quarry	2,311	N/T	N/T	N/A
3/26/2021 12:05	7	7301 S 51st Street	796	0.048	15.6	108
3/26/2021 10:05	6	5800 ALLWOOD	3,720	N/T	N/T	N/A
3/26/2021 10:05	6	7526 S. 51st Street	1,398	0.055	35.7	114
3/26/2021 10:05	6	SE of Quarry	2,266	N/T	N/T	N/A
3/26/2021 10:05	6	7301 S 51st Street	1,005	0.103	33.3	106
3/22/2021 10:24	5	5800 ALLWOOD	3,854	N/T	N/T	N/A
3/22/2021 10:24	5	7526 S. 51st Street	1,298	0.06	27.8	109
3/22/2021 10:24	5	SE of Quarry	2,264	N/T	N/T	N/A
3/22/2021 10:24	5	7301 S 51st Street	789	0.163	38.5	107
3/12/2021 12:16	4	5800 ALLWOOD	1,522	0.043	9.6	114
3/12/2021 12:16	4	7526 S. 51st Street	1,956	0.065	23.8	109
3/12/2021 12:16	4	SE of Quarry	1,245	0.135	17.9	108
3/12/2021 12:16	4	7301 S 51st Street	2,968	N/T	N/T	N/A

PDD Vibration Limit - Per the PDD #23 and #24 Ordinances, ground vibration resulting from P&D blasting shall not exceed 0.30 inches per second on at least 85% of its blasts within any single calendar year. The Operator shall not exceed the ground vibration limitation imposed by the Wisconsin Department of Industry, Labor and Human Relations in Figure 7.64 of ch. ILHR 7, Wis. Adm. Code (new reference now Wis. Adm. Code, Safety and Professional Services Chapter 307), or 0.65 inches per second, whichever is more restrictive, on any blast.

PDD Airblast Limit - 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. The Operator shall not exceed the airblast limitation imposed by the 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).



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Date	Time	Shot #	Seismo Loc	PPV	AO
4/16/2021	9:40 am	16	Franklin Quarry (7301 S 51st Street)	N/T	N/T
4/16/2021	9:42 am	16	Franklin Quarry (7526 S. 51st Street)	0.088	110
4/16/2021	9:42 am	16	Franklin Quarry (5800 ALLWOOD)	0.023	114
4/16/2021	9:42 am	16	Franklin Quarry (SE of Quarry)	0.143	109
4/14/2021	12:45 pm	15	Franklin Quarry (5800 ALLWOOD)	N/T	N/T
4/14/2021	12:45 pm	15	Franklin Quarry (SE of Quarry)	N/T	N/T
4/14/2021	12:43 pm	15	Franklin Quarry (7526 S. 51st Street)	0.025	118
4/14/2021	12:43 pm	15	Franklin Quarry (7301 S 51st Street)	0.035	116
4/14/2021	11:15 am	14	Franklin Quarry (5800 ALLWOOD)	N/T	N/T
4/14/2021	11:12 am	14	Franklin Quarry (SE of Quarry)	0.035	111
4/14/2021	11:12 am	14	Franklin Quarry (7526 S. 51st Street)	0.078	118
4/14/2021	11:12 am	14	Franklin Quarry (7301 S 51st Street)	0.190	107
4/13/2021	1:49 pm	Test	Franklin Quarry (7301 S 51st Street)	N/T	N/T
4/13/2021	1:49 pm	Test	Franklin Quarry (5800 ALLWOOD)	N/T	N/T
4/13/2021	1:49 pm	Test	Franklin Quarry (SE of Quarry)	N/T	N/T

Date	Time	Shot #	Seismo Loc	PPV	AO
4/13/2021	1:49 pm	Test	Franklin Quarry (7526 S. 51st Street)	N/T	N/T
4/12/2021	11:00 am	13	Franklin Quarry (5800 ALLWOOD)	N/T	N/T
4/12/2021	11:00 am	13	Franklin Quarry (SE of Quarry)	N/T	N/T
4/12/2021	10:58 am	13	Franklin Quarry (7526 S. 51st Street)	0.043	116
4/12/2021	10:58 am	13	Franklin Quarry (7301 S 51st Street)	0.088	109
4/07/2021	10:15 am	12	Franklin Quarry (5800 ALLWOOD)	N/T	N/T
4/07/2021	10:13 am	12	Franklin Quarry (7526 S. 51st Street)	0.038	110
4/07/2021	10:13 am	12	Franklin Quarry (SE of Quarry)	0.023	107
4/07/2021	10:13 am	12	Franklin Quarry (7301 S 51st Street)	0.063	107
4/05/2021	10:00 am	11	Franklin Quarry (5800 ALLWOOD)	N/T	N/T
4/05/2021	10:00 am	11	Franklin Quarry (SE of Quarry)	N/T	N/T
4/05/2021	9:53 am	11	Franklin Quarry (7526 S. 51st Street)	0.048	111
4/05/2021	9:53 am	11	Franklin Quarry (7301 S 51st Street)	0.075	106
4/01/2021	9:40 am	10	Franklin Quarry (5800 ALLWOOD)	N/T	N/T
4/01/2021	9:40 am	10	Franklin Quarry (SE of Quarry)	N/T	N/T
4/01/2021	9:40 am	10	Franklin Quarry (7526 S. 51st Street)	N/T	N/T
4/01/2021	9:40 am	10	Franklin Quarry (7301 S 51st Street)	0.028	91
3/31/2021	9:45 am	8	Franklin Quarry (5800 ALLWOOD)	N/T	N/T
3/31/2021	9:45 am	8	Franklin Quarry (SE of Quarry)	N/T	N/T
3/31/2021	9:42 am	8	Franklin Quarry (7526 S. 51st Street)	0.055	114
3/31/2021	9:42 am	8	Franklin Quarry (7301 S 51st Street)	0.070	107
3/31/2021	12:00 pm	9		N/T	N/T