



# City of Garden Ridge

*“A way of life, not just a place to live”*

## AGENDA QUARRY COMMISSION REGULAR MEETING MONDAY, JANUARY 11, 2021, 6:00 P.M.

The Garden Ridge Quarry Commission will meet in a regular session on Monday, January 11, 2021, at 6:00 p.m. in the City Council Chambers, 9400 Municipal Parkway, Garden Ridge, Texas. This is an open meeting, open to the public, subject to the Open Meetings Law of the State of Texas, and as required by law, notice is hereby posted providing time, place, date, and agenda thereof. The meeting facility is wheelchair accessible and accessible parking spaces are provided. Requests for accommodations or interpretative services must be made to the City Secretary 48 hours prior to this meeting.

### 1. Call to Order

### 2. Roll Call

### 3. Pledge of Allegiance

### 4. Citizen Comment Period – limited to 30 minutes total

**Rules for Citizens’ Participation:** The Commission welcomes citizen participation and comments at all Commission Meetings. The Commission offers citizens the opportunity to address them by signing up to speak prior to the meeting. If you speak, you must follow these guidelines:

#### a) Respect and courtesy:

1. Direct your comments to the entire Commission, not to an individual member, nor to the audience.
2. Show the Commission the same respect that you would like to be shown.
3. End your speaking at the time allotted below.

#### b) Speaking:

1. First citizen comment period.
  - i. You are required to sign up to speak and you are limited to one 3-minute period.
2. Second citizen comment period.
  - i. You are not required to sign up and you are limited to one 2-minute period.
3. State your name and address before your comments begin.
4. You are only allowed to speak once per topic, unless also speaking during a posted Public Hearing.

*NOTE: The Texas Open Meetings Act permits a member of the public or a member of the governmental body to raise a subject that has not been included in the notice for the meeting. However, any discussion of the subject must be limited to a proposal to place the subject on the agenda for a future meeting and any response to a question posed to the Commission is limited to either a statement of specific factual information or a recitation of existing policy. TEX. GOV’T CODE § 551.042.*

### 5. Business Items

The following items are for discussion, consideration, and action.

#### a) Approvals

1. Approval of Minutes for November 9, 2020, Quarry Commission Regular Meeting.

#### b) Discussions/Reports/Updates

1. Monthly Hanson Quarry blasting analysis data reported by Vibratex and recent quarry operations, including any unusual blasts that occurred during reported month/s and/or current month.
2. Review individual citizen blast reports received during reported month/s.
3. Location, placement, and number of monitors and other matters related to monitoring of blasts, including placement of roving monitor.

4. Items applicable to the Quarry Commission discussed at the December and January City Council Meetings.
  5. Update on Grapevine articles.
  - c) Recommendations
    1. Ordinance No. 210-022018 An Ordinance of the City Council of the City of Garden Ridge adopting board and commission policy and procedures; providing that this Ordinance shall be cumulative of all Ordinances; providing a severability clause; providing a savings clause; and providing an effective date.
      - i. Interview possible candidates for Quarry Commission, Place 7 vacancy (term expiring September 30, 2022).
      - ii. Make recommendation to City Council for appointment of commissioner.
      - iii. Discuss and make recommendations related to application of ordinance provisions to commission members, if needed.
  - d) Education/Training
    1. Review “Quarry Terminology”.
    2. Discuss “Blasting Educational Materials” with Vibratech, Hanson representatives, blasting contractors, and the public.
    3. Discuss future education/training sessions.
  - e) Future Agenda Items
    1. Commissioners input on agenda items.
    2. Announce the date, time, and location for next meeting (March 8, 2021, at 6:00 p.m. at City Hall).
6. **Citizen Comment Period – limited to 20 minutes total**  
See “Rules for Citizen’s Participation” under Item 4.
7. **Adjournment**

**AGENDA NOTICES:**

**Decorum Required:** Any disruptive behavior, including shouting or derogatory statements or comments may be ruled out of order by the Presiding Officer. Continuation of this type of behavior could result in a request by the Presiding Officer that the individual leave the meeting, and if refused, an order of removal.

**Action by Commission Authorized:** The Commission may vote or act upon any item within this agenda.

**Attendance by Other Elected or Appointed Officials:** It is anticipated that members of the City Council, other city boards, commissions, and/or committees may attend the meeting in numbers that may constitute a quorum of the City Council, other city boards, commissions, and/or committees. Notice is hereby given that the meeting, to the extent required by law, is also noticed as a meeting of the City Council, other boards, commissions and/or committees of the City, whose members may be in attendance. The members of the boards, commissions, and/or committees may participate in discussions on the same items listed on the agenda, which occur at the meeting, but no action will be taken by such in attendance unless such item and action is specifically provided for on an agenda for that board, commission or committee subject to the Texas Open Meetings Act.

This is to certify that I, Kat Balbi, posted this Agenda at 12:00 p.m. on January 5, 2021, on the bulletin board located at the entrance to the Garden Ridge City Hall, 9400 Municipal Parkway, Garden Ridge, Texas.



Kat Balbi  
Assistant City Secretary



**MINUTES**  
**QUARRY COMMISSION REGULAR MEETING**  
MONDAY, NOVEMBER 9, 2020, 6:00 P.M.

**Commissioners Present:**

Chair Johnell Holly  
Vice-Chair Jerry Barucky  
Commissioner Mike Shands  
Commissioner Wayne Mudge  
Commissioner Armando Diaz  
Councilmember Bryan Lantzy, Ex-officio

**Commissioners Absent:**

Commissioner Albert Haddad, Voluntary Announced Absence  
Vacant Position

**City Staff Present:**

Nancy Cain, City Administrator  
Kat Balbi, Assistant City Secretary

**1. Call to Order**

With a quorum of the Quarry Commissioners present, Chair Holly called the regular meeting of the Garden Ridge Quarry Commission to order at 6:01 p.m. on Monday, November 9, 2020, in the City Council Chambers of the Garden Ridge City Hall, 9400 Municipal Parkway, Garden Ridge, Texas, 78266.

**2. Roll Call:** See above.

**3. Pledge of Allegiance:** Chair Holly led the Pledge of Allegiance.

**4. Citizen Comment Period:** No one signed up to speak.

**5. Business Items**

**The following items are for discussion, consideration and/or action.**

**a) Approvals**

**1. Approval of Minutes for September 14, 2020, Quarry Commission Regular Meeting.**

**Motion:** A motion was made by Commissioner Shands, seconded by Commissioner Barucky, to approve the September 14, 2020, Quarry Commission Regular Meeting Minutes. The Commission voted four (4) for and none (0) opposed. The motion carried unanimously.

**b) Discussions/Reports/Updates**

**1. Review and discussion on the monthly Hanson Quarry blasting analysis data reported by Vibratex. Discussion with Hanson Servtex and blasting contractors on recent quarry operations, including any unusual blasts that occurred during reported month/s and/or current month.**

Nicholas Reittinger, Vibra-Tech, presented and discussed the September blast analysis. He stated that 12 shots occurred during the month of September and none of the blasts exceeded the limits of Ordinance 34. He reported the highest PPV reading of 0.078 occurred on September 14<sup>th</sup> at the Warden Residence and the highest Air Overpressure of 118 dB occurred on September 14<sup>th</sup> at the Warden Residence.

Nicholas Reittinger, Vibra-Tech, presented and discussed the October blast analysis. He stated that 10 shots occurred during the month of October and none of the blasts exceeded the limits of Ordinance 34. He reported

the highest PPV reading of 0.175 occurred on October 20<sup>th</sup> at the Warden Residence and the highest Air Overpressure of 114 dB occurred on October 30<sup>th</sup> at the Warden Residence.

**2. Review individual citizen blast report/s, follow up on citizen blast report/s and/or assign Quarry Commissioner contact with citizen/s, as necessary.**

Nicholas Reitinger, Vibra-Tech, spoke regarding the 12 citizen blast reports received from September through October. He answered questions from the Commission. He spoke regarding a new map that will show concerns submitted by residents and requested to have a standardized Citizen Blast Impact Report for residents.

**3. Discussion on number of, placement, and location of monitors and other matters related to monitoring of blasts by Vibratech and notification to residents of monitor placements. Discuss placement of roving monitor which is currently at the Baker residence.**

The Commission discussed moving the roving monitor to places recommended by Vibra-Tech. The Commission discussed placing the roving monitor in the easement behind the Gould Residence.

**4. Items applicable to the Quarry Commission discussed at the October and November City Council Regular Meetings.**

Chair Holly provided the Commission with an update on the items discussed at the October and November City Council Regular Meetings.

**5. Update on Grapevine articles.**

Commissioner Mudge spoke regarding writing the Grapevine article for the Commission.

**c) Recommendations**

**1. Ordinance No. 210-022018 An Ordinance of the City Council of the City of Garden Ridge adopting board and commission policy and procedures; providing that this Ordinance shall be cumulative of all Ordinances; providing a severability clause; providing a savings clause; and providing an effective date.**

**i. Interview possible candidates for the Quarry Commission Place 7 vacancy (term expiring September 30, 2022).**

**ii. Make recommendation to City Council for appointment of Commissioner.**

The candidate was not in attendance to interview.

**iii. Receive recommendations and consideration of appointment of Quarry Commission Chair and Vice-Chair for a one-year term effective November 2020.**

**Motion:** A motion was made by Shands, seconded by Commissioner Mudge, to appoint Commissioner Holly to serve as Chair and Commissioner Barucky as Vice-chair of the Quarry Commission for a one-year term effective November 2020. The Commission voted four (4) for and none (0) opposed. The motion carried unanimously.

**iv. Discuss and make recommendations related to application of ordinance provisions to commission members, if needed.**

The Commission had none at this time.

**d) Education/Training**

**1. Discuss “Blasting Educational Materials” with Vibratech, Hanson representatives, blasting contractors, and the public.**

Nicholas Reitinger, Vibra-Tech, presented an updated “Blasting Education Materials” and answered questions from the Commission.

**2. Discuss future education/training sessions.**

The Commission had none at this time.

**e) Future Agenda Items**

**1. Commissioners input for items on upcoming agendas.**

Commissioner Diaz requested a discussion on quarry terminology.

**2. Announcement of next Quarry Commission Regular Meeting.**

Chair Holly announced the next Quarry Commission Regular Meeting will be held on Monday, January 11, 2021, at 6:00 p.m. at City Hall.

**6. Citizen Comment Period:** No one wished to speak.

**7. Adjournment**

**Motion:** A motion was made by Vice-Chair Barucky, seconded by Commissioner Mudge, to adjourn. The Commission voted four (4) for and none (0) opposed. The motion carried unanimously. There being no further business, the Monday, November 9, 2020, Quarry Commission Regular Meeting was adjourned at 6:55 p.m. by Chair Holly.

ATTEST:

\_\_\_\_\_  
Johnell Holly  
Chair

\_\_\_\_\_  
Kat Balbi  
Assistant City Secretary



**Vibra-Tech**

[VibraTechinc.com](http://VibraTechinc.com)

4818 E. Ben White Blvd.  
Suite 202  
Austin, TX 78741

**Phone** 512.442.6464  
**Fax** 512.442.6552

December 3, 2020

Mr. Johnell Holly  
Garden Ridge Quarry Commission  
9400 Municipal Parkway  
Garden Ridge, Texas 78266

Dear Mr. Holly,

Enclosed is the analysis for the blasting conducted during the month of November 2020 at the Hanson Aggregates Quarry in Garden Ridge, Texas. Please place this information in your 2020 Blast Data Management Book.

At the request of the Garden Ridge Quarry Commission, Vibra-Tech, Inc. personnel conducted seismic monitoring at various locations for all blasting activities.

The attached report contains the original seismograph records obtained from the blasting along with a comparison of the recorded vibrations to the latest recommended U.S. Bureau of Mines (USBM) Variable Particle Velocity vs. Frequency Limits Report of Investigations (RI)-8507 (Nov. 1980).

The recorded ground vibrations **satisfy** the Variable Particle Velocity vs. Frequency Limits recommended by the USBM RI-8507 (Nov. 1980), and the levels set forth in Garden Ridge City Ordinance 34.

The recorded air-borne effects **satisfy** the recommended levels set forth in the USBM RI-8485 (Nov. 1980), and the levels set forth in Garden Ridge City Ordinance 34.

If there are any additional questions, please contact the Quarry Commission, Johnell Holly at (210) 257-0868, or attend the Quarry Commission meeting held every other month (odd months) at 6:00 PM.



**Vibra-Tech**

[VibraTechinc.com](http://VibraTechinc.com)

Respectfully submitted,

VIBRA-TECH, INC.

Nicholas Reitinger  
Area Manager

cc: Patrick Pieton, Hanson – Servtex



11/19/2020 Pond 4 Level 1 W. B  
11/03/2020 Upper W. 3I  
11/06/2020 Upper W. 3H  
11/17/2020 Upper W. 3E

11/18/2020 Aggie Pit W. B  
11/12/2020 Aggie Pit W. A

11/04/2020 Base Pit N. A

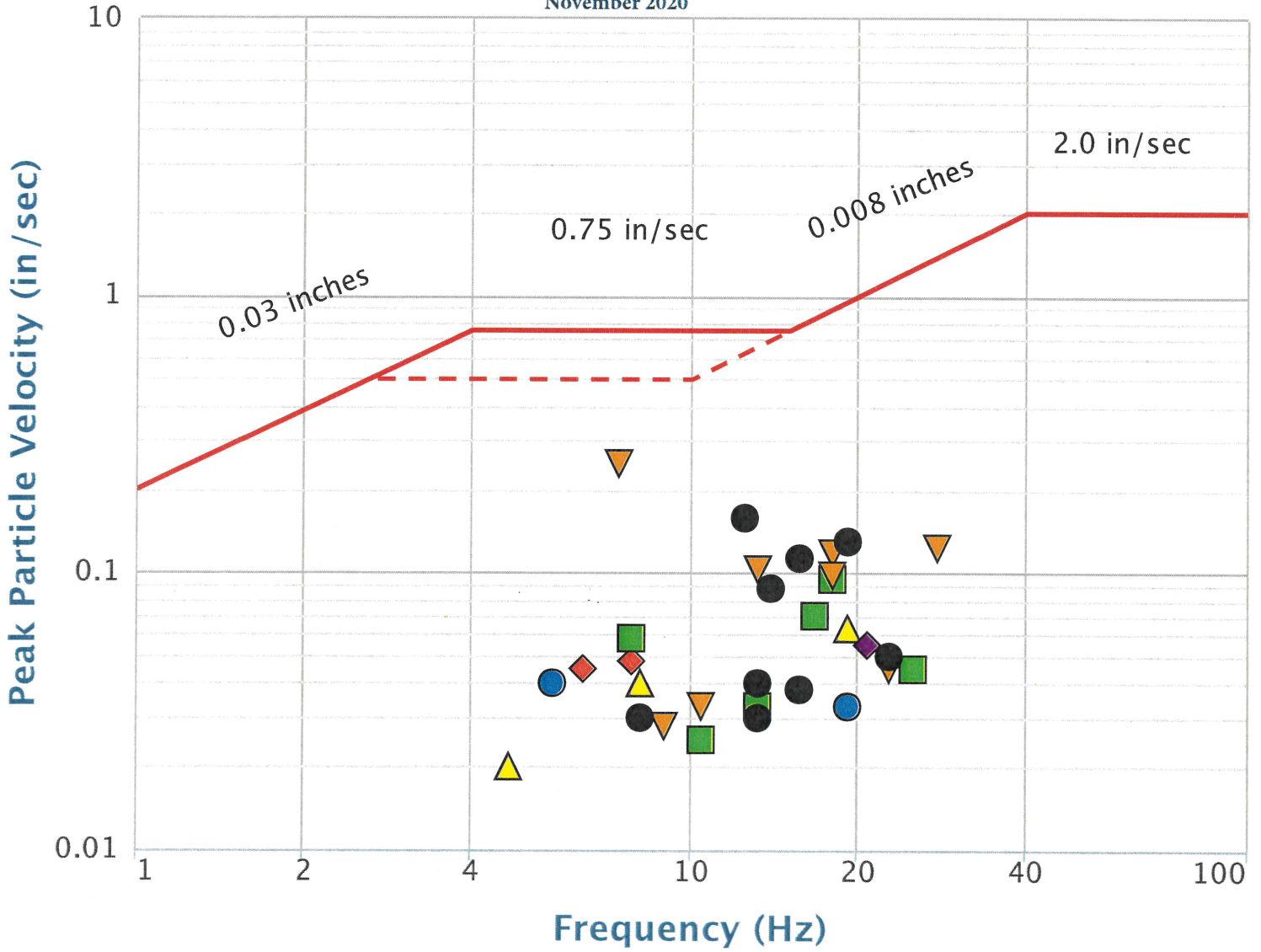
11/24/2020 Base Pit N.E. A

11/09/2020 Base Pit E. B

Google Earth

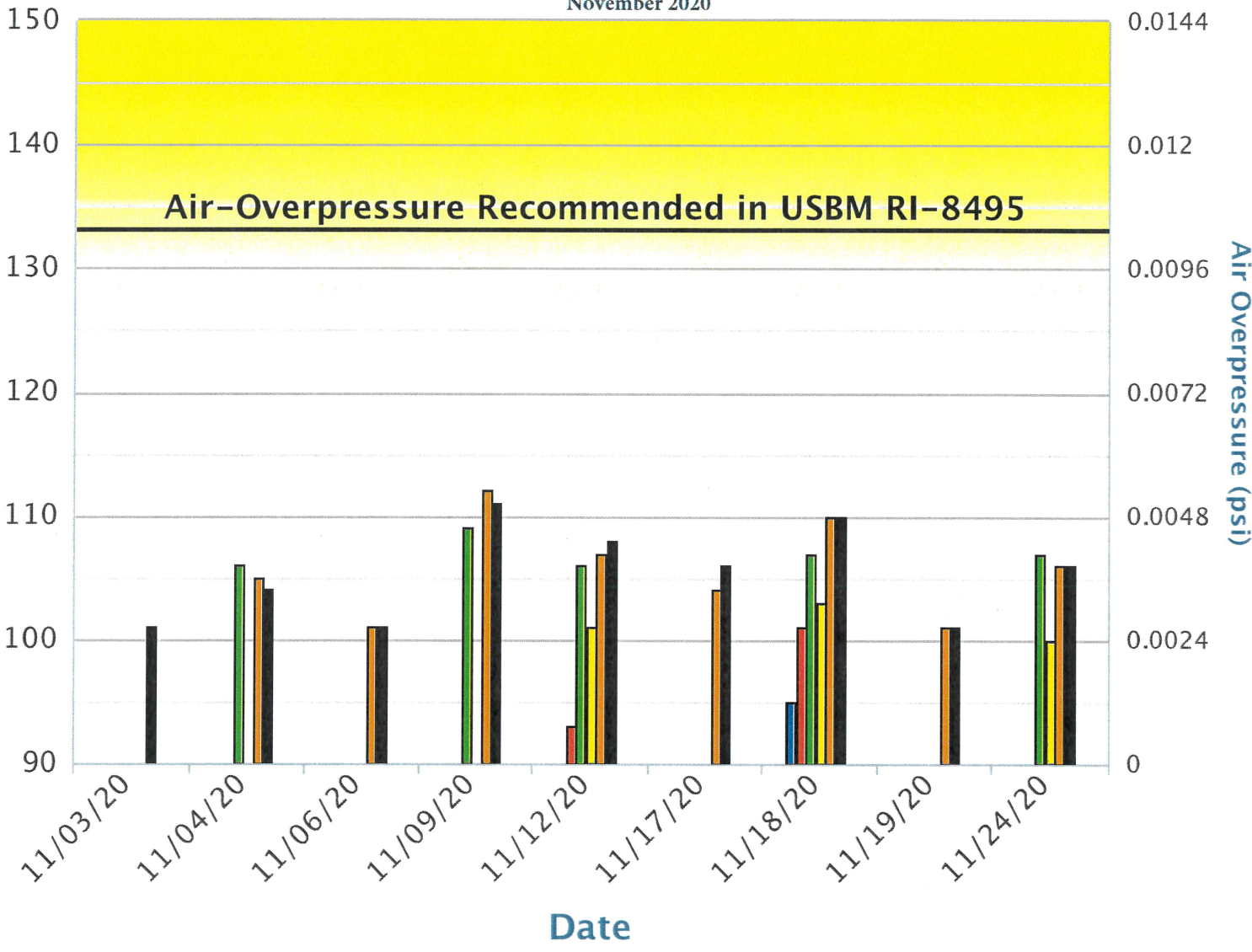
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Garden Ridge Quarry Commission  
 Garden Ridge, Texas  
 USBM Graph  
 November 2020



- Harkins Residence    ◆ Michels Residence    ■ Holly Residence    ▲ City Property Line
- ▼ Warden Residence    ● Warden Prop Line    ◆ Baker Residence

Garden Ridge Quarry Commission  
 Garden Ridge, Texas  
 AO Graph  
 November 2020



- Harkins Residence
- Michels Residence
- Holly Residence
- City Property Line
- Warden Residence
- Warden Prop Line
- Baker Residence

**GARDEN RIDGE QUARRY COMMISSION  
HANSON - SERVTEX QUARRY  
GARDEN RIDGE, TEXAS  
NOVEMBER 2020**

DATE	SHOT # LOCATION	SHOT LOCATION GPS READING	WEATHER	TIME	PPV (in/sec)	FREQ (Hz)	AIR (dB)	SHOT DURATION (MS)	MAX LBS/ DELAY	DISTANCE FROM BLAST	SEISMOGRAPH LOCATION
11/03/20	11/03/2020 Upper W. 3I	N 29° 39' 1.18" W 098° 17' 49.12"	SUNNY 78° S 8	13:20	NT	NT	NT	976	51.00	4,584	Baker Residence
11/03/20	11/03/2020 Upper W. 3I	N 29° 39' 1.18" W 098° 17' 49.12"	SUNNY 78° S 8	13:20	NT	NT	NT	976	51.00	3,994	City Property Line
11/03/20	11/03/2020 Upper W. 3I	N 29° 39' 1.18" W 098° 17' 49.12"	SUNNY 78° S 8	13:20	NT	NT	NT	976	51.00	3,076	Michels - 9118 Tuscan Hills
11/03/20	11/03/2020 Upper W. 3I	N 29° 39' 1.18" W 098° 17' 49.12"	SUNNY 78° S 8	13:20	NT	NT	NT	976	51.00	3,952	Warden - 21375 Gunther Grove
11/03/20	11/03/2020 Upper W. 3I	N 29° 39' 1.18" W 098° 17' 49.12"	SUNNY 78° S 8	13:20	0.03	8.1	101	976	51.00	3,697	Warden Property Line
11/04/20	11/04/2020 Base Pit N. A	N 29° 38' 21.91" W 098° 17' 9.36"	SUNNY 74° SW 14	13:21	0.055	20.8	88	1064	222.00	6,833	Baker Residence
11/04/20	11/04/2020 Base Pit N. A	N 29° 38' 21.91" W 098° 17' 9.36"	SUNNY 74° SW 14	13:21	NT	NT	NT	1064	222.00	3,932	City Property Line
11/04/20	11/04/2020 Base Pit N. A	N 29° 38' 21.91" W 098° 17' 9.36"	SUNNY 74° SW 14	13:21	0.095	17.9	106	1064	222.00	1,650	Holly - 9916 Trophy Oaks
11/04/20	11/04/2020 Base Pit N. A	N 29° 38' 21.91" W 098° 17' 9.36"	SUNNY 74° SW 14	13:21	NT	NT	NT	1064	222.00	6,721	Michels - 9118 Tuscan Hills
11/04/20	11/04/2020 Base Pit N. A	N 29° 38' 21.91" W 098° 17' 9.36"	SUNNY 74° SW 14	13:21	0.118	17.9	105	1064	222.00	2,701	Warden - 21375 Gunther Grove
11/06/20	11/06/2020 Upper W. 3H	N 29° 38' 59.18" W 098° 17' 48.85"	PARTLY CLOUDY 75° SE 11	13:30	NT	NT	NT	1160	162.00	3,795	City Property Line
11/06/20	11/06/2020 Upper W. 3H	N 29° 38' 59.18" W 098° 17' 48.85"	PARTLY CLOUDY 75° SE 11	13:30	NT	NT	NT	1160	162.00	3,980	Harkins Residence
11/06/20	11/06/2020 Upper W. 3H	N 29° 38' 59.18" W 098° 17' 48.85"	PARTLY CLOUDY 75° SE 11	13:30	NT	NT	NT	1160	162.00	3,008	Michels - 9118 Tuscan Hills
11/06/20	11/06/2020 Upper W. 3H	N 29° 38' 59.18" W 098° 17' 48.85"	PARTLY CLOUDY 75° SE 11	13:30	0.028	8.9	101	1160	162.00	3,748	Warden - 21375 Gunther Grove
11/06/20	11/06/2020 Upper W. 3H	N 29° 38' 59.18" W 098° 17' 48.85"	PARTLY CLOUDY 75° SE 11	13:30	0.03	13.2	101	1160	162.00	3,495	Warden Property Line
11/09/20	11/09/2020 Base Pit E. B	N 29° 38' 5.64" W 098° 16' 45.63"	PARTLY CLOUDY 77° NW 7	13:12	NT	NT	NT	1460	792.00	6,246	City Property Line

NT = No Trigger, <0.020ips.  
NT = No Trigger, <122dB

**GARDEN RIDGE QUARRY COMMISSION  
HANSON - SERVTEX QUARRY  
GARDEN RIDGE, TEXAS  
NOVEMBER 2020**

DATE	SHOT # LOCATION	SHOT LOCATION GPS READING	WEATHER	TIME	PPV (in/sec)	FREQ (Hz)	AIR (dB)	SHOT DURATION (MS)	MAX LBS/ DELAY	DISTANCE FROM BLAST	SEISMOGRAPH LOCATION
11/09/20	11/09/2020 Base Pit E. B	N 29° 38' 5.64" W 098° 16' 45.63"	PARTLY CLOUDY 77° NW 7	13:12	NT	NT	NT	1460	792.00	8,802	Harkins Residence
11/09/20	11/09/2020 Base Pit E. B	N 29° 38' 5.64" W 098° 16' 45.63"	PARTLY CLOUDY 77° NW 7	13:12	0.045	25	109	1460	792.00	3,712	Holly - 9916 Trophy Oaks
11/09/20	11/09/2020 Base Pit E. B	N 29° 38' 5.64" W 098° 16' 45.63"	PARTLY CLOUDY 77° NW 7	13:12	NT	NT	NT	1460	792.00	9,309	Michels - 9118 Tuscan Hills
11/09/20	11/09/2020 Base Pit E. B	N 29° 38' 5.64" W 098° 16' 45.63"	PARTLY CLOUDY 77° NW 7	13:12	0.045	22.7	112	1460	792.00	5,102	Warden - 21375 Gunther Grove
11/12/20	11/12/2020 Aggie Pit W. A	N 29° 38' 45.51" W 098° 17' 43.33"	PARTLY CLOUDY 79° S 10	14:20	0.063	19.2	101	1481	656.00	2,561	City Property Line
11/12/20	11/12/2020 Aggie Pit W. A	N 29° 38' 45.51" W 098° 17' 43.33"	PARTLY CLOUDY 79° S 10	14:20	0.04	5.6	88	1481	656.00	3,606	Harkins Residence
11/12/20	11/12/2020 Aggie Pit W. A	N 29° 38' 45.51" W 098° 17' 43.33"	PARTLY CLOUDY 79° S 10	14:20	0.045	6.4	93	1481	656.00	3,233	Michels - 9118 Tuscan Hills
11/12/20	11/12/2020 Aggie Pit W. A	N 29° 38' 45.51" W 098° 17' 43.33"	PARTLY CLOUDY 79° S 10	14:20	0.248	7.4	107	1481	656.00	2,300	Warden - 21375 Gunther Grove
11/12/20	11/12/2020 Aggie Pit W. A	N 29° 38' 45.51" W 098° 17' 43.33"	PARTLY CLOUDY 79° S 10	14:20	0.158	12.5	108	1481	656.00	2,035	Warden Property Line
11/17/20	11/17/2020 Upper W. 3E	N 29° 38' 56.61" W 098° 17' 48.76"	SUNNY 75° NE 6	13:22	NT	NT	NT	1196	118.00	3,538	City Property Line
11/17/20	11/17/2020 Upper W. 3E	N 29° 38' 56.61" W 098° 17' 48.76"	SUNNY 75° NE 6	13:22	NT	NT	NT	1196	118.00	3,807	Harkins Residence
11/17/20	11/17/2020 Upper W. 3E	N 29° 38' 56.61" W 098° 17' 48.76"	SUNNY 75° NE 6	13:22	NT	NT	NT	1196	118.00	2,919	Michels - 9118 Tuscan Hills
11/17/20	11/17/2020 Upper W. 3E	N 29° 38' 56.61" W 098° 17' 48.76"	SUNNY 75° NE 6	13:22	0.033	10.4	104	1196	118.00	3,492	Warden - 21375 Gunther Grove
11/17/20	11/17/2020 Upper W. 3E	N 29° 38' 56.61" W 098° 17' 48.76"	SUNNY 75° NE 6	13:22	0.038	15.6	106	1196	118.00	3,241	Warden Property Line
11/18/20	11/18/2020 Aggie Pit W. B	N 29° 38' 47.04" W 098° 17' 42.26"	SUNNY 78° SE 9	15:10	0.04	8.1	103	1399	585.00	2,740	City Property Line
11/18/20	11/18/2020 Aggie Pit W. B	N 29° 38' 47.04" W 098° 17' 42.26"	SUNNY 78° SE 9	15:10	0.033	19.2	95	1399	585.00	3,754	Harkins Residence

NT = No Trigger, <0.020ips.  
NT = No Trigger, <122dB

**GARDEN RIDGE QUARRY COMMISSION  
HANSON - SERVTEX QUARRY  
GARDEN RIDGE, TEXAS  
NOVEMBER 2020**

DATE	SHOT # LOCATION	SHOT LOCATION GPS READING	WEATHER	TIME	PPV (in/sec)	FREQ (Hz)	AIR (dB)	SHOT DURATION (MS)	MAX LBS/ DELAY	DISTANCE FROM BLAST	SEISMOGRAPH LOCATION
11/18/20	11/18/2020 Aggie Pit W. B	N 29° 38' 47.04" W 098° 17' 42.26"	SUNNY 78° SE 9	15:10	0.048	7.8	101	1399	585.00	3,324	Michels - 9118 Tuscan Hills
11/18/20	11/18/2020 Aggie Pit W. B	N 29° 38' 47.04" W 098° 17' 42.26"	SUNNY 78° SE 9	15:10	0.103	13.2	110	1399	585.00	2,444	Warden - 21375 Gunther Grove
11/18/20	11/18/2020 Aggie Pit W. B	N 29° 38' 47.04" W 098° 17' 42.26"	SUNNY 78° SE 9	15:10	0.13	19.2	110	1399	585.00	2,172	Warden Property Line
11/19/20	11/19/2020 Pond 4 Level 1 W. B	N 29° 39' 1.95" W 098° 17' 19.11"	SUNNY 80° S 12	13:28	NT	NT	NT	830	534.00	5,083	City Property Line
11/19/20	11/19/2020 Pond 4 Level 1 W. B	N 29° 39' 1.95" W 098° 17' 19.11"	SUNNY 80° S 12	13:28	NT	NT	NT	830	534.00	6,260	Harkins Residence
11/19/20	11/19/2020 Pond 4 Level 1 W. B	N 29° 39' 1.95" W 098° 17' 19.11"	SUNNY 80° S 12	13:28	NT	NT	NT	830	534.00	5,572	Michels - 9118 Tuscan Hills
11/19/20	11/19/2020 Pond 4 Level 1 W. B	N 29° 39' 1.95" W 098° 17' 19.11"	SUNNY 80° S 12	13:28	0.123	27.8	101	830	534.00	4,355	Warden - 21375 Gunther Grove
11/19/20	11/19/2020 Pond 4 Level 1 W. B	N 29° 39' 1.95" W 098° 17' 19.11"	SUNNY 80° S 12	13:28	0.04	13.2	101	830	534.00	4,053	Warden Property Line
11/24/20	11/24/2020 Base Pit N.E. A	N 29° 38' 23.89" W 098° 17' 5.94"	PARTLY CLOUDY 76° S 28	14:21	0.02	4.7	100	1128	235.00	4,237	City Property Line
11/24/20	11/24/2020 Base Pit N.E. A	N 29° 38' 23.89" W 098° 17' 5.94"	PARTLY CLOUDY 76° S 28	14:21	NT	NT	NT	1128	235.00	6,657	Harkins Residence
11/24/20	11/24/2020 Base Pit N.E. A	N 29° 38' 23.89" W 098° 17' 5.94"	PARTLY CLOUDY 76° S 28	14:21	0.07	16.7	107	1128	235.00	2,009	Holly - 9916 Trophy Oaks
11/24/20	11/24/2020 Base Pit N.E. A	N 29° 38' 23.89" W 098° 17' 5.94"	PARTLY CLOUDY 76° S 28	14:21	NT	NT	NT	1128	235.00	6,930	Michels - 9118 Tuscan Hills
11/24/20	11/24/2020 Base Pit N.E. A	N 29° 38' 23.89" W 098° 17' 5.94"	PARTLY CLOUDY 76° S 28	14:21	0.098	17.9	106	1128	235.00	3,001	Warden - 21375 Gunther Grove

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NT = No Trigger, <122dB



**Vibra-Tech**

[VibraTechinc.com](http://VibraTechinc.com)

4818 E. Ben White Blvd.  
Suite 202  
Austin, TX 78741

**Phone** 512.442.6464  
**Fax** 512.442.6552

January 6, 2021

Mr. Johnell Holly  
Garden Ridge Quarry Commission  
9400 Municipal Parkway  
Garden Ridge, Texas 78266

Dear Mr. Holly,

Enclosed is the analysis for the blasting conducted during the month of December 2020 at the Hanson Aggregates Quarry in Garden Ridge, Texas. Please place this information in your 2020 Blast Data Management Book.

At the request of the Garden Ridge Quarry Commission, Vibra-Tech, Inc. personnel conducted seismic monitoring at various locations for all blasting activities.

The attached report contains the original seismograph records obtained from the blasting along with a comparison of the recorded vibrations to the latest recommended U.S. Bureau of Mines (USBM) Variable Particle Velocity vs. Frequency Limits Report of Investigations (RI)-8507 (Nov. 1980).

The recorded ground vibrations **satisfy** the Variable Particle Velocity vs. Frequency Limits recommended by the USBM RI-8507 (Nov. 1980), and the levels set forth in Garden Ridge City Ordinance 34.

The recorded air-borne effects **satisfy** the recommended levels set forth in the USBM RI-8485 (Nov. 1980), and the levels set forth in Garden Ridge City Ordinance 34.

If there are any additional questions, please contact the Quarry Commission, Johnell Holly at (210) 257-0868, or attend the Quarry Commission meeting held every other month (odd months) at 6:00 PM.



**Vibra-Tech**

[VibraTechinc.com](http://VibraTechinc.com)

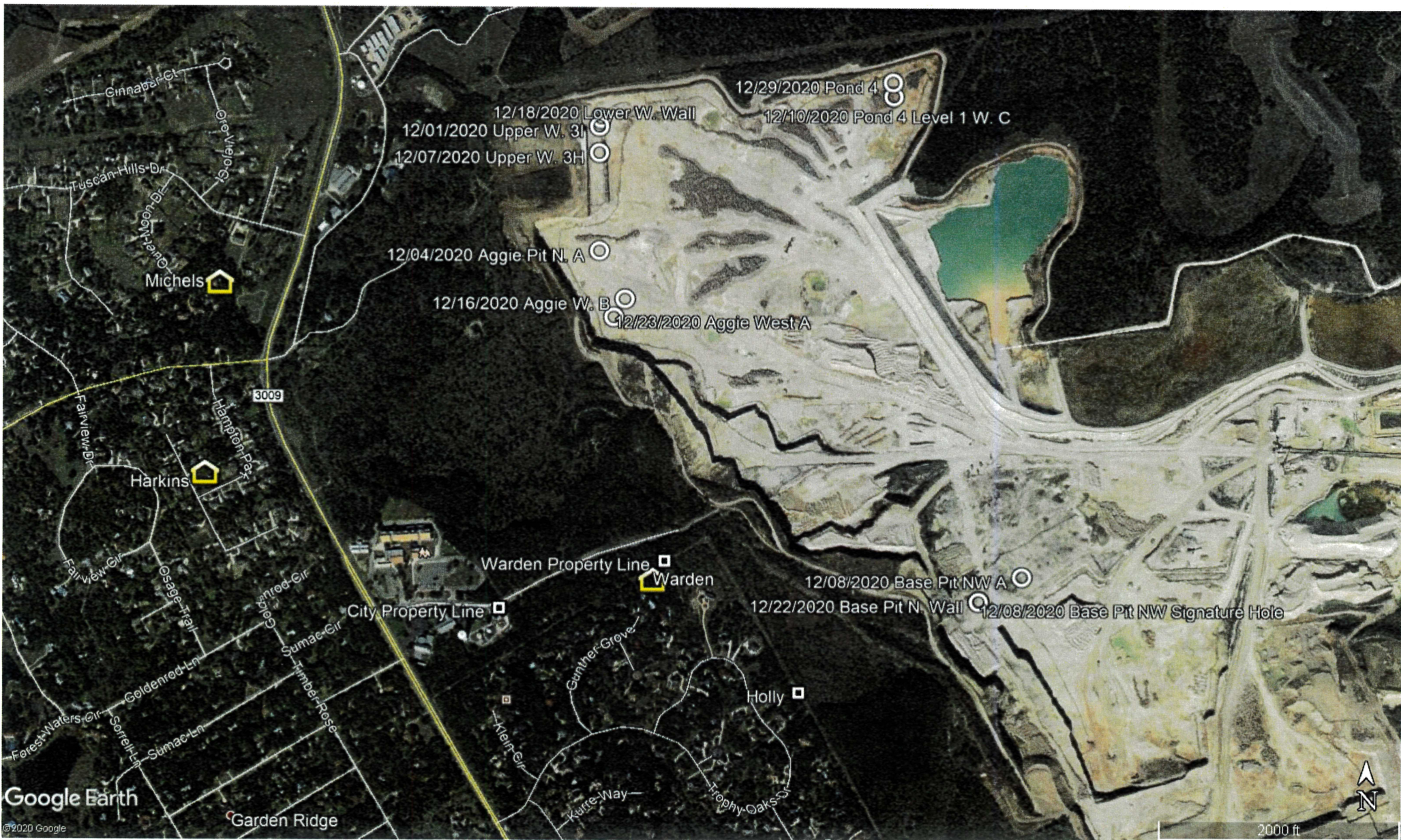
Respectfully submitted,

VIBRA-TECH, INC.

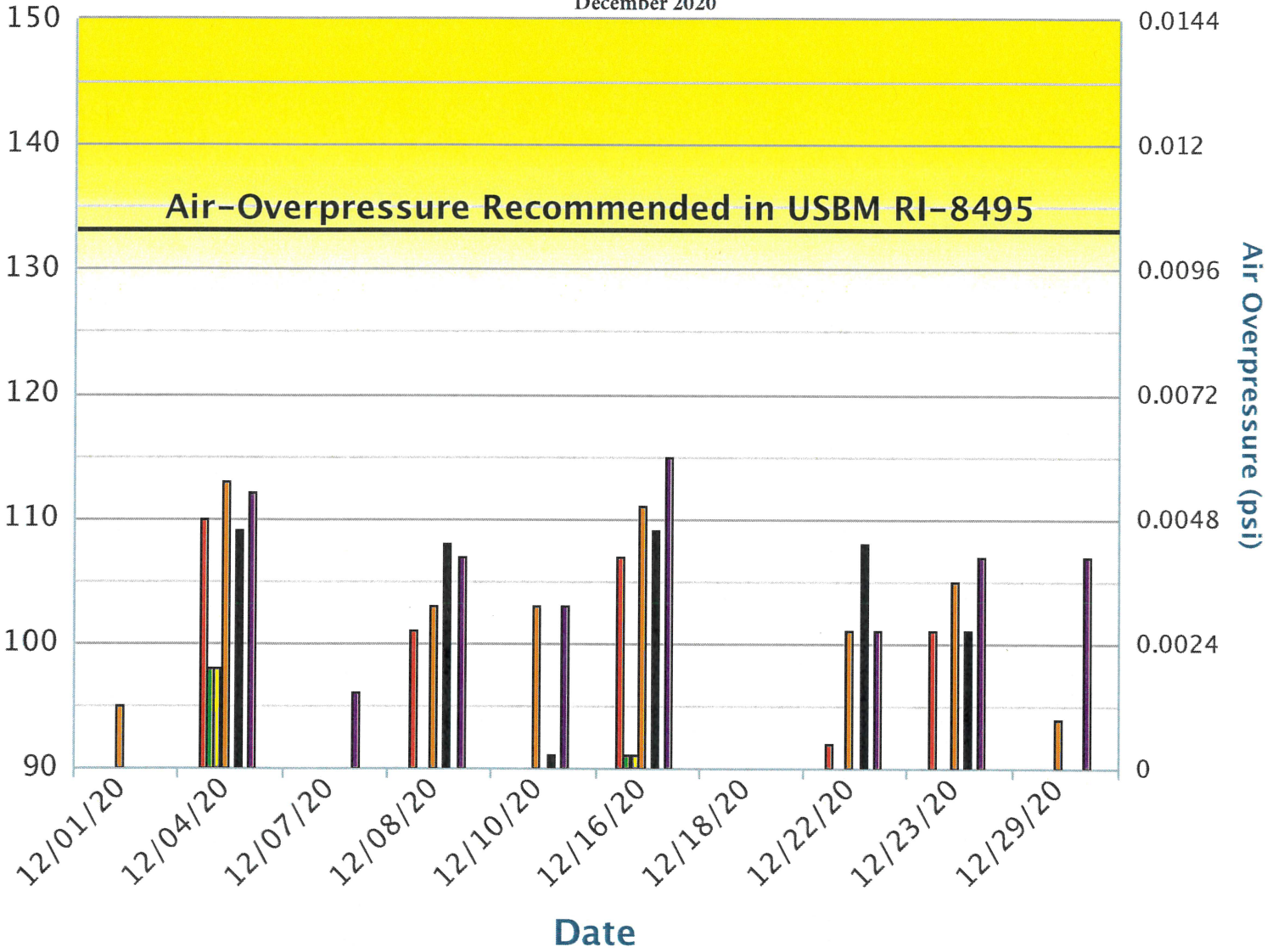
A handwritten signature in black ink, appearing to be 'N. Reitinger', written over a large, loopy circular flourish.

Nicholas Reitinger  
Area Manager

cc: Patrick Pieton, Hanson – Servtex

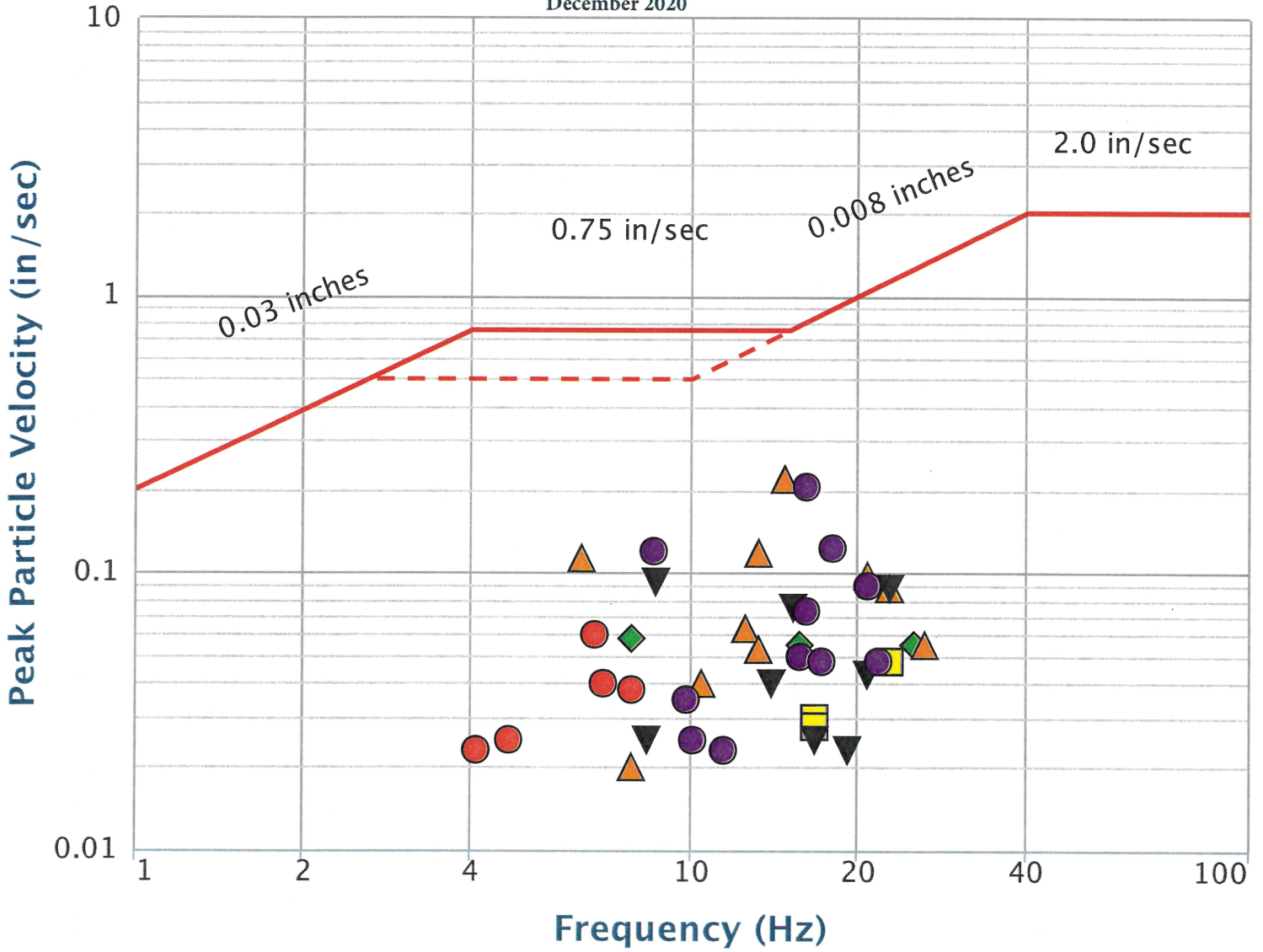


Garden Ridge Quarry Commission  
 Garden Ridge, Texas  
 AO Graph  
 December 2020



- City Property Line
- Michels Residence
- Harkins Residence
- Warden Residence
- Holly Residence
- Warden Prop Line

Garden Ridge Quarry Commission  
 Garden Ridge, Texas  
 USBM Graph  
 December 2020



- City Property Line    ◆ Michels Residence    □ Harkins Residence    ▲ Warden Residence
- ▼ Holly Residence    ● Warden Prop Line

**GARDEN RIDGE QUARRY COMMISSION  
HANSON - SERVTEX QUARRY  
GARDEN RIDGE, TEXAS  
DECEMBER 2020**

DATE	SHOT # LOCATION	SHOT LOCATION GPS READING	WEATHER	TIME	PPV (in/sec)	FREQ (Hz)	AIR (dB)	SHOT DURATION (MS)	MAX LBS/ DELAY	DISTANCE FROM BLAST	SEISMOGRAPH LOCATION
12/01/20	12/01/2020 Upper W. 3I	N 29° 39' 1.21" W 098° 17' 49.39"	SUNNY 62° SW 18	13:16	NT	NT	NT	976	57.00	3,994	City Property Line
12/01/20	12/01/2020 Upper W. 3I	N 29° 39' 1.21" W 098° 17' 49.39"	SUNNY 62° SW 18	13:16	NT	NT	NT	976	57.00	4,095	Harkins Residence
12/01/20	12/01/2020 Upper W. 3I	N 29° 39' 1.21" W 098° 17' 49.39"	SUNNY 62° SW 18	13:16	NT	NT	NT	976	57.00	3,056	Michels - 9118 Tuscan Hills
12/01/20	12/01/2020 Upper W. 3I	N 29° 39' 1.21" W 098° 17' 49.39"	SUNNY 62° SW 18	13:16	0.02	7.8	95	976	57.00	3,959	Warden - 21375 Gunther Grove
12/01/20	12/01/2020 Upper W. 3I	N 29° 39' 1.21" W 098° 17' 49.39"	SUNNY 62° SW 18	13:16	0.023	11.4	90	976	57.00	3,706	Warden Property Line
12/04/20	12/04/2020 Aggie Pit N. A	N 29° 38' 51.00" W 098° 17' 41.04"	PARTLY CLOUDY 64° NW 7	14:01	0.038	7.8	110	1270	889.00	3,153	City Property Line
12/04/20	12/04/2020 Aggie Pit N. A	N 29° 38' 51.00" W 098° 17' 41.04"	PARTLY CLOUDY 64° NW 7	14:01	0.048	22.7	98	1270	889.00	4,032	Harkins Residence
12/04/20	12/04/2020 Aggie Pit N. A	N 29° 38' 51.00" W 098° 17' 41.04"	PARTLY CLOUDY 64° NW 7	14:01	0.055	25	98	1270	889.00	3,455	Michels - 9118 Tuscan Hills
12/04/20	12/04/2020 Aggie Pit N. A	N 29° 38' 51.00" W 098° 17' 41.04"	PARTLY CLOUDY 64° NW 7	14:01	0.118	13.2	113	1270	889.00	2,839	Warden - 21375 Gunther Grove
12/04/20	12/04/2020 Aggie Pit N. A	N 29° 38' 51.00" W 098° 17' 41.04"	PARTLY CLOUDY 64° NW 7	14:01	0.123	17.9	112	1270	889.00	2,560	Warden Property Line
12/07/20	12/07/2020 Upper W. 3H	N 29° 38' 59.05" W 098° 17' 49.45"	SUNNY 67° NW 4	13:22	NT	NT	NT	1160	83.00	3,776	City Property Line
12/07/20	12/07/2020 Upper W. 3H	N 29° 38' 59.05" W 098° 17' 49.45"	SUNNY 67° NW 4	13:22	NT	NT	NT	1160	83.00	3,933	Harkins Residence
12/07/20	12/07/2020 Upper W. 3H	N 29° 38' 59.05" W 098° 17' 49.45"	SUNNY 67° NW 4	13:22	NT	NT	NT	1160	83.00	2,955	Michels - 9118 Tuscan Hills
12/07/20	12/07/2020 Upper W. 3H	N 29° 38' 59.05" W 098° 17' 49.45"	SUNNY 67° NW 4	13:22	*	*	*	1160	83.00	3,747	Warden - 21375 Gunther Grove
12/07/20	12/07/2020 Upper W. 3H	N 29° 38' 59.05" W 098° 17' 49.45"	SUNNY 67° NW 4	13:22	0.025	10	96	1160	83.00	3,496	Warden Property Line
12/08/20	12/08/2020 Base Pit NW Signature Hole	N 29° 38' 22.24" W 098° 17' 9.36"	SUNNY 67° NW 4	13:15	0.075	15.2	85	0	198.00	1,665	Holly - 9916 Trophy Oaks

NT = No Trigger, <0.020ips.  
NT = No Trigger, <122dB

**GARDEN RIDGE QUARRY COMMISSION  
HANSON - SERVTEX QUARRY  
GARDEN RIDGE, TEXAS  
DECEMBER 2020**

DATE	SHOT # LOCATION	SHOT LOCATION GPS READING	WEATHER	TIME	PPV (in/sec)	FREQ (Hz)	AIR (dB)	SHOT DURATION (MS)	MAX LBS/ DELAY	DISTANCE FROM BLAST	SEISMOGRAPH LOCATION
12/08/20	12/08/2020 Base Pit NW Signature Hole	N 29° 38' 22.24" W 098° 17' 9.36"	SUNNY 67° NW 4	13:15	0.063	12.5	82	0	198.00	2,700	Warden - 21375 Gunther Grove
12/08/20	12/08/2020 Base Pit NW Signature Hole	N 29° 38' 22.24" W 098° 17' 9.36"	SUNNY 67° NW 4	13:15	NT	NT	NT	0	198.00	6,380	Harkins Residence
12/08/20	12/08/2020 Base Pit NW Signature Hole	N 29° 38' 22.24" W 098° 17' 9.36"	SUNNY 67° NW 4	13:15	NT	NT	NT	0	198.00	6,708	Michels - 9118 Tuscan Hills
12/08/20	12/08/2020 Base Pit NW Signature Hole	N 29° 38' 22.24" W 098° 17' 9.36"	SUNNY 67° NW 4	13:15	0.05	15.6	83	0	198.00	2,621	Warden Property Line
12/08/20	12/08/2020 Base Pit NW A	N 29° 38' 24.22" W 098° 17' 5.31"	CLEAR 79° W 5	13:21	0.023	4.1	101	824	387.00	4,294	City Property Line
12/08/20	12/08/2020 Base Pit NW A	N 29° 38' 24.22" W 098° 17' 5.31"	CLEAR 79° W 5	13:21	NT	NT	NT	824	387.00	6,708	Harkins Residence
12/08/20	12/08/2020 Base Pit NW A	N 29° 38' 24.22" W 098° 17' 5.31"	CLEAR 79° W 5	13:21	0.093	8.6	108	824	387.00	2,073	Holly - 9916 Trophy Oaks
12/08/20	12/08/2020 Base Pit NW A	N 29° 38' 24.22" W 098° 17' 5.31"	CLEAR 79° W 5	13:21	NT	NT	NT	824	387.00	6,972	Michels - 9118 Tuscan Hills
12/08/20	12/08/2020 Base Pit NW A	N 29° 38' 24.22" W 098° 17' 5.31"	CLEAR 79° W 5	13:21	0.088	22.7	103	824	387.00	3,058	Warden - 21375 Gunther Grove
12/10/20	12/10/2020 Pond 4 Level 1 W. C	N 29° 39' 3.92" W 098° 17' 17.44"	SUNNY 75° S 14	13:24	NT	NT	NT	984	440.00	5,330	City Property Line
12/10/20	12/10/2020 Pond 4 Level 1 W. C	N 29° 39' 3.92" W 098° 17' 17.44"	SUNNY 75° S 14	13:24	NT	NT	NT	984	440.00	6,487	Harkins Residence
12/10/20	12/10/2020 Pond 4 Level 1 W. C	N 29° 39' 3.92" W 098° 17' 17.44"	SUNNY 75° S 14	13:24	NT	NT	NT	984	440.00	5,770	Michels - 9118 Tuscan Hills
12/10/20	12/10/2020 Pond 4 Level 1 W. C	N 29° 39' 3.92" W 098° 17' 17.44"	SUNNY 75° S 14	13:24	0.053	13.2	103	984	440.00	4,598	Warden - 21375 Gunther Grove
12/10/20	12/10/2020 Pond 4 Level 1 W. C	N 29° 39' 3.92" W 098° 17' 17.44"	SUNNY 75° S 14	13:24	0.048	17.2	103	984	440.00	4,297	Warden Property Line
12/16/20	12/16/2020 Aggie W. B	N 29° 38' 47.07" W 098° 17' 42.68"	CLEAR 55° N 9	13:29	0.04	6.9	107	1422	623.00	2,729	City Property Line
12/16/20	12/16/2020 Aggie W. B	N 29° 38' 47.07" W 098° 17' 42.68"	CLEAR 55° N 9	13:29	0.03	16.7	91	1422	623.00	3,722	Harkins Residence

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**GARDEN RIDGE QUARRY COMMISSION  
HANSON - SERVTEX QUARRY  
GARDEN RIDGE, TEXAS  
DECEMBER 2020**

DATE	SHOT # LOCATION	SHOT LOCATION GPS READING	WEATHER	TIME	PPV (in/sec)	FREQ (Hz)	AIR (dB)	SHOT DURATION (MS)	MAX LBS/ DELAY	DISTANCE FROM BLAST	SEISMOGRAPH LOCATION
12/16/20	12/16/2020 Aggie W. B	N 29° 38' 47.07" W 098° 17' 42.68"	CLEAR 55° N 9	13:29	0.058	7.8	91	1422	623.00	3,287	Michels - 9118 Tuscan Hills
12/16/20	12/16/2020 Aggie W. B	N 29° 38' 47.07" W 098° 17' 42.68"	CLEAR 55° N 9	13:29	0.113	6.3	111	1422	623.00	2,451	Warden - 21375 Gunther Grove
12/16/20	12/16/2020 Aggie W. B	N 29° 38' 47.07" W 098° 17' 42.68"	CLEAR 55° N 9	13:29	0.12	8.5	115	1422	623.00	2,181	Warden Property Line
12/18/20	12/18/2020 Lower W. Wall	N 29° 39' 1.85" W 098° 17' 44.94"	PARTLY CLOUDY 70° S 12	13:13	NT	NT	NT	2016	115.00	4,116	City Property Line
12/18/20	12/18/2020 Lower W. Wall	N 29° 39' 1.85" W 098° 17' 44.94"	PARTLY CLOUDY 70° S 12	13:13	NT	NT	NT	2016	115.00	4,415	Harkins Residence
12/18/20	12/18/2020 Lower W. Wall	N 29° 39' 1.85" W 098° 17' 44.94"	PARTLY CLOUDY 70° S 12	13:13	NT	NT	NT	2016	115.00	3,455	Michels - 9118 Tuscan Hills
12/18/20	12/18/2020 Lower W. Wall	N 29° 39' 1.85" W 098° 17' 44.94"	PARTLY CLOUDY 70° S 12	13:13	0.04	10.4	89	2016	115.00	3,961	Warden - 21375 Gunther Grove
12/18/20	12/18/2020 Lower W. Wall	N 29° 39' 1.85" W 098° 17' 44.94"	PARTLY CLOUDY 70° S 12	13:13	0.035	9.8	90	2016	115.00	3,692	Warden Property Line
12/22/20	12/22/2020 Base Pit N. Wall	N 29° 38' 22.16" W 098° 17' 9.40"	PARTLY CLOUDY 70° S 12	13:13	0.025	4.7	92	1088	236.00	3,928	City Property Line
12/22/20	12/22/2020 Base Pit N. Wall	N 29° 38' 22.16" W 098° 17' 9.40"	PARTLY CLOUDY 70° S 12	13:13	NT	NT	NT	1088	236.00	6,378	Harkins Residence
12/22/20	12/22/2020 Base Pit N. Wall	N 29° 38' 22.16" W 098° 17' 9.40"	PARTLY CLOUDY 70° S 12	13:13	0.088	22.7	108	1088	236.00	1,658	Holly - 9916 Trophy Oaks
12/22/20	12/22/2020 Base Pit N. Wall	N 29° 38' 22.16" W 098° 17' 9.40"	PARTLY CLOUDY 70° S 12	13:13	NT	NT	NT	1088	236.00	6,708	Michels - 9118 Tuscan Hills
12/22/20	12/22/2020 Base Pit N. Wall	N 29° 38' 22.16" W 098° 17' 9.40"	PARTLY CLOUDY 70° S 12	13:13	0.098	20.8	101	1088	236.00	2,697	Warden - 21375 Gunther Grove
12/23/20	12/23/2020 Aggie West A	N 29° 38' 45.58" W 098° 17' 43.72"	PARTLY CLOUDY 69° SW 6	12:47	0.06	6.7	101	1437	780.00	2,555	City Property Line
12/23/20	12/23/2020 Aggie West A	N 29° 38' 45.58" W 098° 17' 43.72"	PARTLY CLOUDY 69° SW 6	12:47	0.028	16.7	88	1437	780.00	3,577	Harkins Residence
12/23/20	12/23/2020 Aggie West A	N 29° 38' 45.58" W 098° 17' 43.72"	PARTLY CLOUDY 69° SW 6	12:47	0.055	15.6	90	1437	780.00	3,198	Michels - 9118 Tuscan Hills

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**GARDEN RIDGE QUARRY COMMISSION  
HANSON - SERVTEX QUARRY  
GARDEN RIDGE, TEXAS  
DECEMBER 2020**

DATE	SHOT # LOCATION	SHOT LOCATION GPS READING	WEATHER	TIME	PPV (in/sec)	FREQ (Hz)	AIR (dB)	SHOT DURATION (MS)	MAX LBS/ DELAY	DISTANCE FROM BLAST	SEISMOGRAPH LOCATION
12/23/20	12/23/2020 Aggie West A	N 29° 38' 45.58" W 098° 17' 43.72"	PARTLY CLOUDY 69° SW 6	12:47	0.218	14.7	105	1437	780.00	2,312	Warden - 21375 Gunther Grove
12/23/20	12/23/2020 Aggie West A	N 29° 38' 45.58" W 098° 17' 43.72"	PARTLY CLOUDY 69° SW 6	12:47	0.205	16.1	107	1437	780.00	2,049	Warden Property Line
12/29/20	12/29/2020 Pond 4	N 29° 39' 5.08" W 098° 17' 17.50"	CLOUDY 74° S 23	13:15	NT	NT	NT	1728	403.00	5,421	City Property Line
12/29/20	12/29/2020 Pond 4	N 29° 39' 5.08" W 098° 17' 17.50"	CLOUDY 74° S 23	13:15	NT	NT	NT	1728	403.00	6,542	Harkins Residence
12/29/20	12/29/2020 Pond 4	N 29° 39' 5.08" W 098° 17' 17.50"	CLOUDY 74° S 23	13:15	NT	NT	NT	1728	403.00	5,801	Michels - 9118 Tuscan Hills
12/29/20	12/29/2020 Pond 4	N 29° 39' 5.08" W 098° 17' 17.50"	CLOUDY 74° S 23	13:15	0.055	26.3	94	1728	403.00	4,702	Warden - 21375 Gunther Grove
12/29/20	12/29/2020 Pond 4	N 29° 39' 5.08" W 098° 17' 17.50"	CLOUDY 74° S 23	13:15	0.048	21.7	107	1728	403.00	4,401	Warden Property Line

NT = No Trigger, <0.020ips.  
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#	Month	Blast Date	Blast time	Date Received	Name	Address	Phone #	Rating	# stories	sq footage	request contact	Misc	Date sent to VibraTech
2020-64Q	November	11/4/2020	1:21pm	11/4/2020	Christi Bueche Morrow	21120 Forest Waters Circle	210-651-5161	4	2	4300	No	At 1 :21 pm our entire house shook. I was upstairs and my husband was downstairs. Several of our pictures on the upstairs walls are hanging slowly girly crooked.	11/4/2020
2020-65Q	November	11/4/2020	1:21pm	11/24/2020	Shane Thomas	21648 Valley Park		4	1	3040	Yes	Large boom sound that shook our walls. I could hear our glasses in our cabinet rattle.	11/25/2020
2020-66Q	November	11/12/2020	2:21pm	11/12/2020	Janet Hayslip	8318 Garden Arbor	408-839-8650	3	1	3300	No	Felt a rumble and heard it too	11/12/2020
2020-67Q	November	11/12/2020	2:20pm		Ilona Thomas	21648 Valley Park	210-639-4767	5	1	3040	Yes	Shook the entire house. Heard and felt it.	1/5/2021
2020-68Q	November	11/12/2020	2:20pm	11/12/2020	Tara Kelley	9506 Sumac Circle	210-478-2570	5		2552	No	Rumbling short-lived but very powerful.	11/12/2020
2020-69Q	November	11/12/2020	2:21pm	11/12/2020	Christi Bueche Morrow	21120 Forest Waters Circle	210-651-5161	5	2	4300	No	Our entire house shook from the blast at 2:21 pm. I was upstairs and it knocked a water bottle off the nightstand. It also sounded like rolling thunder outside. My paintings on the walls were also left askew. It was scary!	11/12/2020
2020-70Q	November	11/18/2020		11/18/2020	Janet Hayslip	8318 Garden Arbor	408-839-8650	5+	1	3300	No	WOW! That one felt like an earthquake!! (I'm originally from Callifornia) The entire house shook, rumbled and there was sound to it!	11/18/2020
2020-71Q	November	11/18/2020	3:11pm	11/24/2020	Shane Thomas	21648 Valley Park		5	1	3040	Yes	One big blast! It happened again. I had several neighbors call and text to see what the sound was. After multiple blast in the last few weeks, I knew exactly what it was...	11/25/2020
2020-72Q	November	11/24/2020	2:21pm	11/24/2020	Armando Diaz	21010 Gunther Grove	210-843-2946	4	1	2800	No	I have not been home to feel a blast in quite a while. At first, I thought what I felt was a "sonic boom", and then realized it was a blast. Heard wall vibration and felt some vibration through the floor.	11/24/2020
2020-73Q	December	12/4/2020	2:07pm	12/4/2020	Janet Hayslip	8318 Garden Arbor	408-839-8650	5	1	3300	No	The house rumbled and shook! Woke my dog from sleep and caused her to yelp!	12/4/2020
2020-74Q	December	12/4/2020	2:07pm	12/4/2020	Ilona Thomas	21648 Valley Park	210-639-4767	5+	1	3040	Yes	Was woken up from a nap by the blast. The house shook so violently that my pictures were crooked.	12/4/2020
2020-75Q	December	12/4/2020	1:30pm	12/4/2020	Vivienne & George Midla	8724 Verano Drive	210-827-1690	5	1			Windows rattled inside home. George was outside and could hear the blast moving across the ground and	1/5/2021
2020-76Q	December	12/7/2020	1:22pm	12/7/2020	Vivienne & George Midla	8724 Verano Drive	210-827-1690	3	1			Blast stay more underground than previous blasts. Heard pipes vibrating throughout the house.	1/5/2021
2020-77Q	December	12/16/2020	1:29pm	12/16/2020	Janet Hayslip	8318 Garden Arbor	408-839-8650	5	1	3300	No	it was long and rumbled the house and it actually caused a rumbling sound caused my dog to jump up and bark	12/16/2020
2020-78Q	December	12/16/2020	1:30pm	12/16/2020	Donald & Rosie Thomas	8809 Tuscan Hills Drive	210-663-2132	5	1.5	5700	Yes	The blast shook(shaken ) my whole house i heard my raft in my roof shaken this was such a big blast i called the city water dept in spoke with a lady there this blasting have cracked my dry wall apart in cracked floor tile my china in china cabinet was rattling shakening i have lots of cracks due to the blasting have damage to my home that i would like for them to repair even previouses blasting have created cracks in my wall paint peel falling, this was very very very loud in moved the house had entire house shaking, these blasting have damage to my home	12/16/2020

2020-79Q	December	12/16/2020	10:30am	12/16/2020	Heather Hancock	9330 Bluebell Drive	210-254-6676	5	1	4000	Yes	My husband called me at work to describe an earthquake at the house which shook pictures off the walls and knocked over a computer. I told him there were no earthquakes in town today. I asked about this event on Nextdoor and was informed about the quarry blasting which is the only thing it could have been	12/16/2020
2020-80Q	December	12/16/2020	1:30pm	12/16/2020	Shane Thomas	21648 Valley Park		4	1	3040	Yes	Just like the other more recent blast this one shook pictures on my walls. I recently built a home 2 years ago. Our home has developed cracks throughout our house (see attached pictures). The cracks are growing.	12/16/2020
2020-81Q	December	12/16/2020	1:30pm	12/28/2020	Ilona Thomas	21648 Valley Park	210-639-4767	5	1	2800	Yes	As usual, loud, shook the house. Felt it in the floor	12/28/2020
2020-82Q	December	12/23/2020	12:48pm	12/28/2020	Ilona Thomas	21648 Valley Park	210-639-4767	5	1	2800	Yes	sick and tired of the frequent blasts!	12/28/2020

Print

Citizen Quarry Blast Impact Report - Submission #2397

Date Submitted: 11/4/2020

First Name

Christi Bueche Morrow

Last Name

Haberer

Report Date

11/4/2020

Phone Number:

210-651-5161

E-Mail Address

[Redacted]

Address1

21120 Forest Waters Circle

Blast Date/Time:

1:21pm

Please describe the event.

At 1:21pm our entire house shook. I was upstairs and my husband was downstairs. Several of our pictures on the upstairs walls are hanging slowly girly crooked.

How did this blast compare to other blasts?

Our entire house shook. I was upstairs and I felt it shake.

On a 1 to 5 scale, please rate the blast intensity. (1=minor, 5 = major)

4

What was your activity at the time of blast?

I was upstairs walking down the hall

In what general direction does you house face? (N,E,S or W)

West

What is the approximate square footage of your home?

4300

Is your home a 1 story, 1 1/2 , or 2 story or large?

2 stiry

Would you like a Quarry Representative to contact you regarding your report?\*

No

We encourage you to attend the next meeting of the Quarry Commission.

Representatives of the monitoring company and the blasting contractor as well as the Quarry Manager normally attend every meeting and are available to answer questions. The Commission meets the second Monday of every other month at 6:00 PM in the City Council Chambers in City Hall.

By filing this report, you consent to the public release of this information.

**CITY OF GARDEN RIDGE**  
**CITIZEN QUARRY BLAST IMPACT REPORT**

Name: Shane Thomas

Report Date: 11-4-20

Address: 21648 Valley Park

E-Mail Address: [REDACTED]

Phone: J

Blast Date/Time: 11-4-20 11:21 PM

Please describe the event.

Large boom sound that shook our walls. I could hear our glasses in our cabinet rattle.

How did this blast compare to other blasts? Louder than most.

On a 1 to 5 scale, please rate the blast intensity. (1= minor, 5= major) 4

What was your activity at the time of the blast? On my computer

In what general direction does your house face? (N, E, S or W) South

Is your home a 1 story, 1 1/2 story, or 2 story or larger? 1 story

What is the approximate square footage of your home? 3040

Would you like a Quarry Commission member to contact you regarding your report?  
(Yes or No) yes

*We encourage you to attend the next meeting of the Quarry Commission. Representatives of the monitoring company and the blasting contractor as well as the Quarry Manager normally attend every meeting and are available to answer questions. The Commission meets the second Monday of every other month at 6:00 PM in the Municipal Courtroom.*

Please complete the form and print it, then submit the completed report(s) to the City Hall or to [citysecretary@ci.garden-ridge.tx.us](mailto:citysecretary@ci.garden-ridge.tx.us). Thank you for submitting the form.

**By filing this report, you consent to the public release of this information.**

Print

Citizen Quarry Blast Impact Report - Submission #2412

Date Submitted: 11/12/2020

<b>First Name</b> Janet	<b>Last Name</b> Hayslip	<b>Report Date</b> 11/12/2020
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<b>Phone Number:</b> 408 839 8650	<b>E-Mail Address</b> [REDACTED]
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<b>Address1</b> 8318 Garden Arbor	<b>Blast Date/Time:</b> 11/12/2020 at 2:21p
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**Please describe the event.**

Felt a rumble and heard it too!

**How did this blast compare to other blasts?**

not as severe

<b>On a 1 to 5 scale, please rate the blast intensity. (1=minor, 5 = major)</b> 3i	<b>What was your activity at the time of blast?</b> i was working / husband watching Masters	<b>In what general direction does you house face? (N,E,S or W)</b> North/northwest
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<b>What is the approximate square footage of your home?</b> 3300	<b>Is your home a 1 story, 1 1/2 , or 2 story or large?</b> 1 story	<b>Would you like a Quarry Representative to contact you regarding your report?*</b> No
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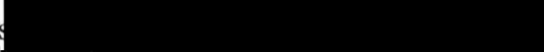
**We encourage you to attend the next meeting of the Quarry Commission.**

Representatives of the monitoring company and the blasting contractor as well as the Quarry Manager normally attend every meeting and are available to answer questions. The Commission meets the second Monday of every other month at 6:00 PM in the City Council Chambers in City Hall.

**By filing this report, you consent to the public release of this information.**

**CITY OF GARDEN RIDGE**  
**CITIZEN QUARRY BLAST IMPACT REPORT**

Name: ILONA THOMAS Report Date: 11/12/20

Address: 21659 VALLEY PARK DR. E-Mail Address: 

Phone: (210) 639-4767 Blast Date/Time: 11/12/20 / 2:20 pm

Please describe the event.

Shook the entire house. Heard and felt it.

How did this blast compare to other blasts? They are all bad.

On a 1 to 5 scale, please rate the blast intensity. (1= minor, 5= major) 5

What was your activity at the time of the blast? working in my kitchen

In what general direction does your house face? (N, E, S or W) NW

Is your home a 1 story, 1 1/2 story, or 2 story or larger? 1

What is the approximate square footage of your home? 2800 sq ft.

Would you like a Quarry Commission member to contact you regarding your report?  
(Yes or No) YES.

*We encourage you to attend the next meeting of the Quarry Commission. Representatives of the monitoring company and the blasting contractor as well as the Quarry Manager normally attend every meeting and are available to answer questions. The Commission meets the second Monday of every other month at 6:00 PM in the Municipal Courtroom.*

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Citizen Quarry Blast Impact Report - Submission #2413

Date Submitted: 11/12/2020

First Name

Tara

Last Name

Kelley

Report Date

11/12/2020

Phone Number:

2104782570

E-Mail Address

[Redacted]

Address1

9506 Sumac Cir

Blast Date/Time:

11/12/2020 2:20PM

Please describe the event.

Rumbling short-lived but very powerful.

How did this blast compare to other blasts?

Much more powerful than others.

On a 1 to 5 scale, please rate the blast intensity. (1=minor, 5 = major)

5

What was your activity at the time of blast?

In living room

In what general direction does you house face? (N,E,S or W)

E

What is the approximate square footage of your home?

2552

Is your home a 1 story, 1 1/2 , or 2 story or large?

1

Would you like a Quarry Representative to contact you regarding your report?\*

No

We encourage you to attend the next meeting of the Quarry Commission.

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Citizen Quarry Blast Impact Report - Submission #2414

Date Submitted: 11/12/2020

First Name

Christi Bueche Morrow

Last Name

Haberer

Report Date

11/12/2020

Phone Number:

210-651-5161

E-Mail Address

[Redacted]

Address1

21120 Forest Waters Circle

Blast Date/Time:

11/12/2020 2:21pm

Please describe the event.

Our entire house shook from the blast at 2:21pm. I was upstairs and it knocked a water bottle off the nightstand. It also sounded like rolling thunder outside. My paintings on the walls were also left askew. It was scary!

How did this blast compare to other blasts?

Worse than one I reported a few weeks ago

On a 1 to 5 scale, please rate the blast intensity. (1=minor, 5 = major)

5

What was your activity at the time of blast?

Just layed down to read the mail

In what general direction does you house face? (N,E,S or W)

West

What is the approximate square footage of your home?

4300 sq ft.

Is your home a 1 story, 1 1/2 , or 2 story or large?

2 story

Would you like a Quarry Representative to contact you regarding your report?\*

No

We encourage you to attend the next meeting of the Quarry Commission.

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Citizen Quarry Blast Impact Report - Submission #2424

Date Submitted: 11/18/2020

<b>First Name</b> Janet	<b>Last Name</b> Hayslip	<b>Report Date</b> 11/18/2020
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<b>Phone Number:</b> 408 839 8650	<b>E-Mail Address</b> [REDACTED]
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<b>Address1</b> 8318 Garden Arbor	<b>Blast Date/Time:</b>
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**Please describe the event.**

WOW! That one felt like an earthquake!! (I'm originally from Callifornia)  
The entire house shook, rumbled and there was sound to it!

**How did this blast compare to other blasts?**

BIGGEST blast I've experienced!

<b>On a 1 to 5 scale, please rate the blast intensity. (1=minor, 5 = major)</b> 5+	<b>What was your activity at the time of blast?</b> working in home office	<b>In what general direction does you house face? (N,E,S or W)</b> North/northwest
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<b>What is the approximate square footage of your home?</b> 3300	<b>Is your home a 1 story, 1 1/2 , or 2 story or large?</b> 1 story	<b>Would you like a Quarry Representative to contact you regarding your report?*</b> No
---	--	--

**We encourage you to attend the next meeting of the Quarry Commission.**  
Representatives of the monitoring company and the blasting contractor as well as the Quarry Manager normally attend every meeting and are available to answer questions. The Commission meets the second Monday of every other month at 6:00 PM in the City Council Chambers in City Hall.

**By filing this report, you consent to the public release of this information.**

**CITY OF GARDEN RIDGE**  
**CITIZEN QUARRY BLAST IMPACT REPORT**

Name: Shane and Tai Thomas Report Date: 11-18-20  
 Address: 21648 Valley Park Garden Ridge 78266 E-Mail Address: [REDACTED]  
 Phone: 210-473-5058 Blast Date/Time: 11-18-20 1:31pm

Please describe the event.

One big blast! It happened again. I had several neighbors call and text to see what the sound was. After multiple blast in the last few weeks, I knew exactly what it was...

How did this blast compare to other blasts? The blast are absolutely interesting... Each blast seems to get strong lately

On a 1 to 5 scale, please rate the blast intensity. (1= minor, 5= major) 5

What was your activity at the time of the blast? Reading a book

In what general direction does your house face? (N, E, S or W) \_\_\_\_\_

Is your home a 1 story, 1 1/2 story, or 2 story or larger? 1 story

What is the approximate square footage of your home? 3040

Would you like a Quarry Commission member to contact you regarding your report?  
 (Yes or No) Yes

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Citizen Quarry Blast Impact Report - Submission #2434

Date Submitted: 11/24/2020

<b>First Name</b> Armando	<b>Last Name</b> Diaz	<b>Report Date</b> 11/24/2020
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<b>Phone Number:</b> 2107210112	<b>E-Mail Address</b> [REDACTED]
------------------------------------	-------------------------------------

<b>Address1</b> 21010 Gunther Grove	<b>Blast Date/Time:</b> 11/24/2020 - 2:21
--	--

**Please describe the event.**  
 I have not been home to feel a blast in quite a while. At first, I thought what I felt was a "sonic boom", and then realized it was a blast. Heard wall vibration and felt some vibration through the floor.

**How did this blast compare to other blasts?**  
 As I said, it's been a while, but this blast was fairly strong compared to what I've felt in the past.

<b>On a 1 to 5 scale, please rate the blast intensity. (1=minor, 5 = major)</b> 4	<b>What was your activity at the time of blast?</b> Standing in the kitchen	<b>In what general direction does you house face? (N,E,S or W)</b> W
--	--	---

<b>What is the approximate square footage of your home?</b> 2800	<b>Is your home a 1 story, 1 1/2 , or 2 story or large?</b> 1	<b>Would you like a Quarry Representative to contact you regarding your report?*</b> No
---	--	--

**We encourage you to attend the next meeting of the Quarry Commission.**  
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Citizen Quarry Blast Impact Report - Submission #2447

Date Submitted: 12/4/2020

First Name

Jan

Last Name

Hayslip

Report Date

12/4/2020

Phone Number:

408 839 8650

E-Mail Address

[Redacted]

Address1

8318 Garden Arbor

Blast Date/Time:

12/04/2020 2:07p

Please describe the event.

The house rumbled and shook! Woke my dog from sleep and caused her to yelp!

How did this blast compare to other blasts?

This was like the last one I reported mid-November but lasted longer.
These are becoming more regular and stronger and should be assessed/evaluated

On a 1 to 5 scale, please rate the blast intensity. (1=minor, 5 = major)

5

What was your activity at the time of blast?

working at home office

In what general direction does you house face? (N,E,S or W)

North/northwest

What is the approximate square footage of your home?

3300

Is your home a 1 story, 1 1/2 , or 2 story or large?

1 story

Would you like a Quarry Representative to contact you regarding your report?\*

No

We encourage you to attend the next meeting of the Quarry Commission.

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**CITY OF GARDEN RIDGE**  
**CITIZEN QUARRY BLAST IMPACT REPORT**

Name: ILONA M. THOMAS Report Date: 12/4/20

Address: 21659 VALLEY PARK DR. E-Mail Address: [REDACTED]

Phone: (210) 639-4767 Blast Date/Time: 12/4/20, 12:00 pm.

Please describe the event.

Was woken up from a nap by the blast.  
The house shook so violently that my pictures  
were crooked.

How did this blast compare to other blasts? Seemed worse than all  
others. This is getting ridiculous! The bricks  
on my house are separating and my  
tiled floor is cracking!!

On a 1 to 5 scale, please rate the blast intensity. (1= minor, 5= major) 5+

What was your activity at the time of the blast? taking a nap.

In what general direction does your house face? (N, E, S or W) NW

Is your home a 1 story, 1 1/2 story, or 2 story or larger? 1

What is the approximate square footage of your home? 2800 sq ft.

Would you like a Quarry Commission member to contact you regarding your report?  
 (Yes or No) YES

*We encourage you to attend the next meeting of the Quarry Commission. Representatives of the monitoring company and the blasting contractor as well as the Quarry Manager normally attend every meeting and are available to answer questions. The Commission meets the second Monday of every other month at 6:00 PM in the Municipal Courtroom.*

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**By filing this report, you consent to the public release of this information.**



### Citizen Quarry Blast Impact Report

Date Submitted:

First Name

Vivienne / George

Last Name

Midla

Report Date

12/4

Phone Number:

210-827-1690

E-Mail Address

Address

8724 Verano Drive

Blast Date/Time:

12/4 around 1330

Please describe the event.

Windows rattled inside home. George was outside and could hear the blast moving across the ground and through the neighboring homes.

How did this blast compare to other blasts?

Usually the blast is not noticeable if outside.

On a 1 to 5 scale, please rate the blast intensity. (1=minor, 5 = major)

5

What was your activity at the time of blast?

resting in house, George was outside working in yard

In what general direction does you house face? (N,E,S or W)

What is the approximate square footage of your home?

Is your home a 1 story, 1 1/2 , or 2 story or large?

1

Would you like a Quarry Representative to contact you regarding your report?\*

NO, PLEASE DO NOT CONTACT ME

We encourage you to attend the next meeting of the Quarry Commission.

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### Citizen Quarry Blast Impact Report

**Date Submitted:**

First Name

Vivienne / George

Last Name

Midla

Report Date

12/7

Phone Number:

210-827-1690

E-Mail Address

Address

8724 Verano Drive

Blast Date/Time:

12/7 1322

Please describe the event.

Blast stay more underground than previous blasts. Heard pipes vibrating throughout the house.

How did this blast compare to other blasts?

More of underground blast.

On a 1 to 5 scale, please rate the blast intensity. (1=minor, 5 = major)

3

What was your activity at the time of blast?

working in my office

In what general direction does you house face? (N,E,S or W)

What is the approximate square footage of your home?

Is your home a 1 story, 1 1/2 , or 2 story or large?

1

Would you like a Quarry Representative to contact you regarding your report?\*

We encourage you to attend the next meeting of the Quarry Commission.

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Citizen Quarry Blast Impact Report - Submission #2466

Date Submitted: 12/16/2020

<b>First Name</b> Jan	<b>Last Name</b> Hayslip	<b>Report Date</b> mm/dd/yyyy
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<b>Phone Number:</b> 408 839 8650	<b>E-Mail Address</b> [REDACTED]
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<b>Address1</b> 8318 Garden Arbor	<b>Blast Date/Time:</b> 12/16/20 1:29p
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**Please describe the event.**

it was long and rumbled the house and it actually caused a rumbling sound caused my dog to jump up and bark

**How did this blast compare to other blasts?**

The blasts are getting worse and worse and are more frequent

<b>On a 1 to 5 scale, please rate the blast intensity. (1=minor, 5 = major)</b> 5	<b>What was your activity at the time of blast?</b> working in home office	<b>In what general direction does you house face? (N,E,S or W)</b> North/northwest
--	---	---

<b>What is the approximate square footage of your home?</b> 3300	<b>Is your home a 1 story, 1 1/2 , or 2 story or large?</b> 1 story	<b>Would you like a Quarry Representative to contact you regarding your report?*</b> No
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**We encourage you to attend the next meeting of the Quarry Commission.**

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Citizen Quarry Blast Impact Report - Submission #2467

Date Submitted: 12/16/2020

<b>First Name</b> Donald & Rosie	<b>Last Name</b> Thomas	<b>Report Date</b> 12/16/2020
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<b>Phone Number:</b> 210-663-2132, 210-541-5661	<b>E-Mail Address</b> [REDACTED]
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<b>Address1</b> 8809 Tuscan Hills Dr Garden ridge TX 78266	<b>Blast Date/Time:</b> 1:30 PM
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**Please describe the event.**

The blast shook(shaken ) my whole house i heard my raft in my roof shaken this was such a big blast i called the city water dept in spoke with a lady there this blasting have cracked my dry wall apart in cracked floor tile my china in china cabinet was rattling shakening i have lots of cracks due to the blasting have damage to my home that i would like for them to repair even previouses blasting have created cracks in my wall paint peel falling, this was very very very loud in moved the house had entire house shaking, these blasting have damage to my home

**How did this blast compare to other blasts?**

This was very very very loud in moved the Whole house had entire house shaking, these blasting have damage to my home

<b>On a 1 to 5 scale, please rate the blast intensity. (1=minor, 5 = major)</b> 5	<b>What was your activity at the time of blast?</b> walking in living room heard raft in attic roof	<b>In what general direction does you house face? (N,E,S or W)</b> SOUTH
--	--	---

<b>What is the approximate square footage of your home?</b> 5700 sq ft	<b>Is your home a 1 story, 1 1/2 , or 2 story or large?</b> 1 1/2 STORY	<b>Would you like a Quarry Representative to contact you regarding your report?*</b> Yes
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Print

Citizen Quarry Blast Impact Report - Submission #2468

Date Submitted: 12/16/2020

<b>First Name</b> Heather	<b>Last Name</b> Hancock	<b>Report Date</b> 12/16/2020
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<b>Phone Number:</b> 2102546676	<b>E-Mail Address</b> [REDACTED]
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<b>Address1</b> 9330 Bluebell Drive	<b>Blast Date/Time:</b> 12/16/2020 10:30am
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**Please describe the event.**  
 My husband called me at work to describe an earthquake at the house which shook pictures off the walls and knocked over a computer. I told him there were no earthquakes in town today. I asked about this event on Nextdoor and was informed about the quarry blasting which is the only thing it could have been

**How did this blast compare to other blasts?**  
 We've only lived here a month...first one and my husband was terrified


<b>On a 1 to 5 scale, please rate the blast intensity. (1=minor, 5 = major)</b> 4	<b>What was your activity at the time of blast?</b> He was on computer that fell over	<b>In what general direction does you house face? (N,E,S or W)</b> West
--	--	--

<b>What is the approximate square footage of your home?</b> 2600	<b>Is your home a 1 story, 1 1/2 , or 2 story or large?</b> 1	<b>Would you like a Quarry Representative to contact you regarding your report?*</b> No
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**We encourage you to attend the next meeting of the Quarry Commission.**  
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**CITY OF GARDEN RIDGE**  
**CITIZEN QUARRY BLAST IMPACT REPORT**

Name: Share Thomas Report Date: 12-16-20  
Address: 21648 Valley Park E-Mail Address:   
Phone: 210-473-5058 Blast Date/Time: 1:29 pm

Please describe the event.

Just like the other more recent blast,  
this one shook pictures on my walls.  
I recently built a home 2 years ago.  
Our home has developed cracks throughout our  
house (see attached pictures). The cracks are  
growing

How did this blast compare to other blasts? Same

On a 1 to 5 scale, please rate the blast intensity. (1= minor, 5= major) 4

What was your activity at the time of the blast? Talking on the phone

In what general direction does your house face? (N, E, S or W) South

Is your home a 1 story, 1 1/2 story, or 2 story or larger? 1 1/2 story

What is the approximate square footage of your home? 3040

Would you like a Quarry Commission member to contact you regarding your report?  
(Yes or No) Yes

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Citizen Quarry Blast Impact Report - Submission #2487

Date Submitted: 12/28/2020

<b>First Name</b> Ilona	<b>Last Name</b> Thomas	<b>Report Date</b> 12/16/2020
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<b>Phone Number:</b> (210) 639-4767	<b>E-Mail Address</b> [REDACTED]
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<b>Address1</b> 21659 Valley Park Drive, Garden Ridge, Tx. 78266	<b>Blast Date/Time:</b> 1:29 pm
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**Please describe the event.**

As usual, loud, shook the house. Felt it in the floor.

**How did this blast compare to other blasts?**

More frequent. Getting louder and stronger.

<b>On a 1 to 5 scale, please rate the blast intensity. (1=minor, 5 = major)</b> 5	<b>What was your activity at the time of blast?</b> Working at my desk	<b>In what general direction does you house face? (N,E,S or W)</b> NW
--	---	--

<b>What is the approximate square footage of your home?</b> 2800	<b>Is your home a 1 story, 1 1/2 , or 2 story or large?</b> 1	<b>Would you like a Quarry Representative to contact you regarding your report?*</b> Yes
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**We encourage you to attend the next meeting of the Quarry Commission.**

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Citizen Quarry Blast Impact Report - Submission #2488

Date Submitted: 12/28/2020

<b>First Name</b> Ilona	<b>Last Name</b> Thomas	<b>Report Date</b> 12/23/2020
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<b>Phone Number:</b> 210-639-4767	<b>E-Mail Address</b> [REDACTED]
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<b>Address1</b> 21659 Valley Park Dr., Garden Ridge, Tx. 78266	<b>Blast Date/Time:</b> 12:48pm
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**Please describe the event.**

Sick and tired of the frequent blasts!

**How did this blast compare to other blasts?**

More annoying.

<b>On a 1 to 5 scale, please rate the blast intensity. (1=minor, 5 = major)</b> 5	<b>What was your activity at the time of blast?</b> Trying to live a peaceful life.	<b>In what general direction does you house face? (N,E,S or W)</b> NW
--	--	--

<b>What is the approximate square footage of your home?</b> 2800	<b>Is your home a 1 story, 1 1/2 , or 2 story or large?</b> 1	<b>Would you like a Quarry Representative to contact you regarding your report?*</b> Yes
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**We encourage you to attend the next meeting of the Quarry Commission.**

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**By filing this report, you consent to the public release of this information.**



# City of Garden Ridge

*"A way of life, not just a place to live"*

## City Commission Volunteer Interest Form

**First Name\***

David

**Last Name**

Biersner

**Address\***

19446 Arrowood Place Garden Ridge, Tx. 78266

**Phone Number**

210-251-4601

**Email Address**

[Redacted]

**Date of Birth\***

[Redacted]

**Voter Unique Identifier (VUID)**

[Redacted]

**Qualifications from Ordinance No. 210\***

Please check all the boxes that apply to you.

- A registered voter in Garden Ridge, TX
- Has resided in the City for at least six (6) months
- Has not been convicted of a felony
- Has not been found mentally incompetent by a final judgment of a court

**Occupation**

Semi Retired Geophysical Consultant and Realtor

**Please check which of the following Commission you have a desire to serve on**

- Planning and Zoning Commission
- Quarry Commission
- Water Commission
- Wildlife Management Advisory Commission
- Any City Commission

**Tell us why you desire to serve on a City Commission.**

I have a lot of experience with gather seismic data utilizing Explosives, Vibrator Trucks and Air Guns. I am very familiar with PPV monitoring around building, wells, house, pipelines, etc. I would like to share this knowledge/insight with the community.

**List any Boards, Commissions or Committees you have previously served on in Garden Ridge or other entities.**

none

**Please attach your resume or a bio.\***

Biersner pdf

**Date**

11/30/2020

**A resume or a bio is required to be submitted with Volunteer Interest Form.**

# David Biersner

---

## Experience

**8/99-Present**                      **Bier Seis, Inc.**  
**Garden Ridge, TX.**  
**President/Owner**

- Oversee geophysical subcontractors in the field for my clients and maintain contractual quality control specs, parameters, HSE compliance, program management, permit supervision and property owner relations.
- Advised clients on bids, budgets, designs, techniques, equipment and subcontractors.
- Advised and recommended field quality control standards.
- Experienced in Marsh, Swamp, Highland, Mountainous and Urban environments.
- Worked in the following markets: US Gulf Coast, Mid-Continent, NE US, Rocky Mountains, Alaska, and California. With some international work in Canada, South America, Europe and Africa.
- Familiar with the following programs: Mesa, ESRI, Global Mapper, Delomre Mapping, GP Seismic and Microsoft Office.
- Fully Insured

**3/2012-2017**

**Pro Line, LLC and Texas Land and Brush Clearing, LLC**  
**Beeville, Texas.**  
**Part owner 33%, Responsible for Sales and Operations.**

- Company concentrated on clearing brush on Oil and Gas Right-of-ways, also did Ranch clearing.
- Operated 5 Caterpillar tractors for clearing with a haul truck.

**5/97-8/99**                      **Eagle Geophysical**                      **Houston, TX.**  
**Operations Supervisor Domestic Land**

- Supervised operations on 4 seismic crews.
- Bid prospects and proposal contracts for seismic work.
- Supervised over 3000 sq. miles of 3-D seismic data acquisition.
- Experienced in the following markets: US Gulf Coast, California, Mid-Continent, and Western Canada.
- Experienced in the following environments: Marsh, Swamp, Highland & High Culture.

- Negotiated and marketed seismic crews to clients.
- Oversaw subcontractors: (Drilling, Explosives, Equipment, Surveyors, Permits.)
- Oversaw purchase and use of capital assets.

**4/96-5/97                      Geco-Prakla                      Houston, TX.**

**Operations Supervisor Ocean Bottom Cable**

- Played a primary role in establishing the OBC division.
- Oversaw the rig up of the Vessels (5) and Seismic equipment
- Recruited personnel and organized their training.
- Oversaw operations of the crew (5 Vessels, 80 people plus subcontractors).
- Oversaw subcontractors and vendors.
- Helped bid and track prospects.
- Advised and reported to clients.

**8/95-4/96                      Western Geophysical                      New Iberia, LA.**

**Field Supervisor Ocean Bottom Cable**

- Responsibility includes the profitability, safety and data quality for 2 OBC crews.
- Supervised 200+ employees plus subcontractors.
- Oversaw maintenance, repair, and upgrading of 10 vessels (105 ft. to 210 ft.)
- Improved profitability and safety of the crews.
- Liaison with Houston management and clients.

**6/93-8/95                      Western Geophysical                      New Iberia, LA.**

**Party Manager Ocean Bottom Cable**

- Played a key role in the development of the OBC division.
- Turned the crew into a profitable, safer, better organize and cohesive unit (gross profit 1995 \$7m.) Held monthly production record of 3350 linear miles.
- Employment and evaluations of personnel, scheduling of safety and professional training of the crewmembers.
- Procurement of supplies and services.
- Set up and maintained onshore DGPS Stations.

**11/87-6/93                      Western Geophysical                      Kingsville, TX.**

**Party Manager Land Crew**

- Managed both 3-D and 2-D projects in South Texas, Oklahoma and Louisiana utilizing vibrator and explosive energy sources.
- One of a few domestic crews to show a profit during the 6 years I managed it.

- Selected and oversaw all subcontractors (Permit, Line Clearing, Drilling,)
- The crew went 22 months without a Lost Time Accident.
- Reported to and advised clients.
- Advised Houston management on bids and scouted potential prospects.
- Supervised permit and survey operations.

**9/83-11/87                      Western Geophysical                      Beeville, TX.  
Geophysical Trainee/Asst. Party Manager**

- Assisted the Party Manager with his duties.
- Relief observer on the MDS-16 system.
- Plane table and alidade surveyor.
- Permitted seismic programs.
- Laid out ground equipment when needed.

**9/20-Present**

D Ann Harper Coldwell Banker Realtor

**Education**

***2020 SABOR Real Estate School***

- Completing 180 hours of required course
- Passed Exam and requirements for a sale agent license (June 2020)

***1979-1983                      Washington State University  
Pullman, WA.***

- Bachelor of Science in Geology.
- Delta Tau Delta Fraternity.
- Geology Club

**Interests**

***Biking, Hiking, Hunting, Fishing, and Gardening. Member of  
SEG, AAPG, HGS and NAR.***

# DRAFT AS OF 01/13/2020 MEETING

- The following presentation is for review and input by Quarry Commission. The related agenda item can be carried forward to the next agenda to allow the Commission ample opportunity to review, discussion and make recommendations.



# Blasting Educational Materials

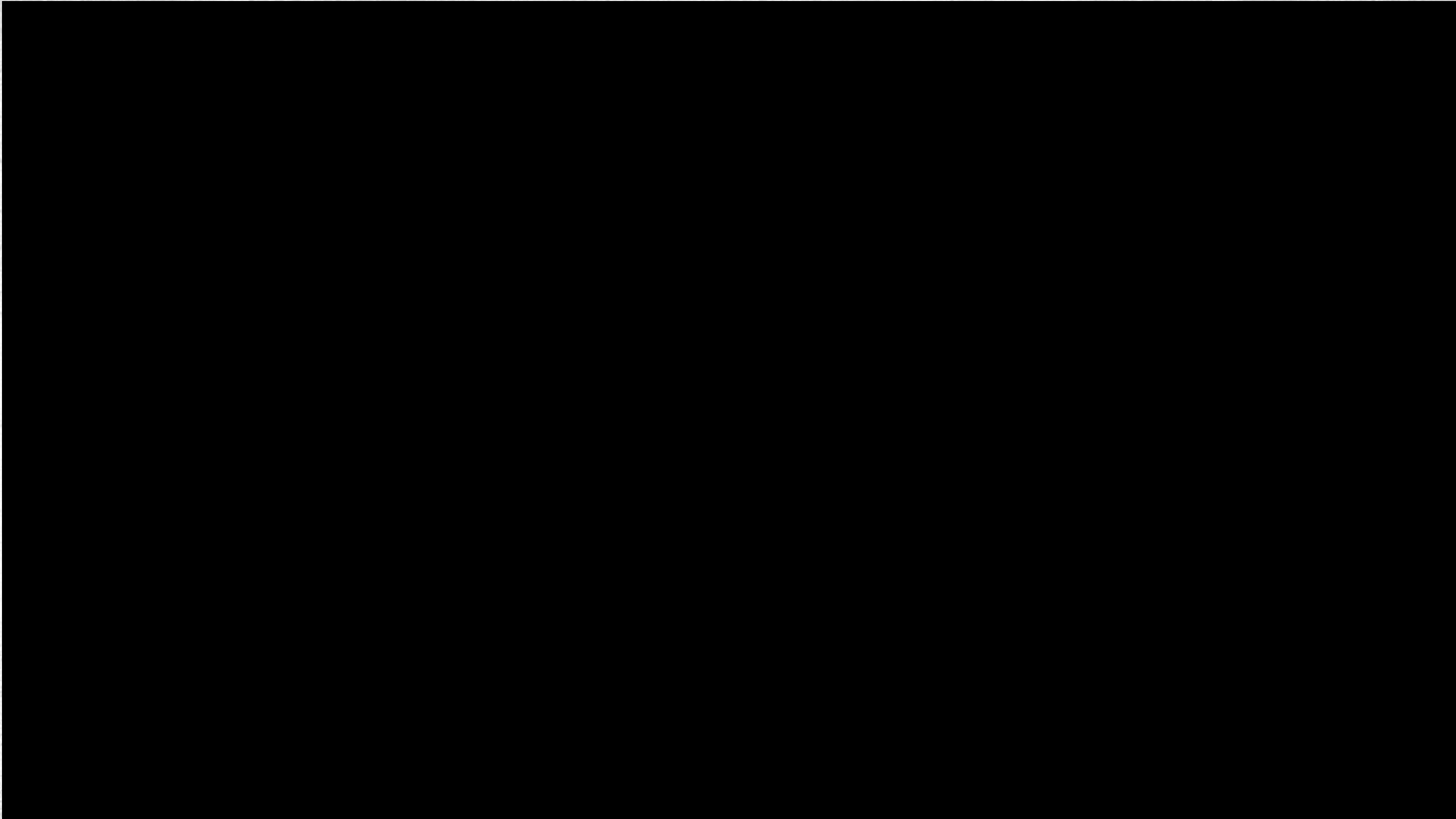
City of Garden Ridge, TX





# ISEE Video - Understanding Vibrations from Blasting

Note: Please  
double click  
the video  
player to play  
(22 minute  
video)

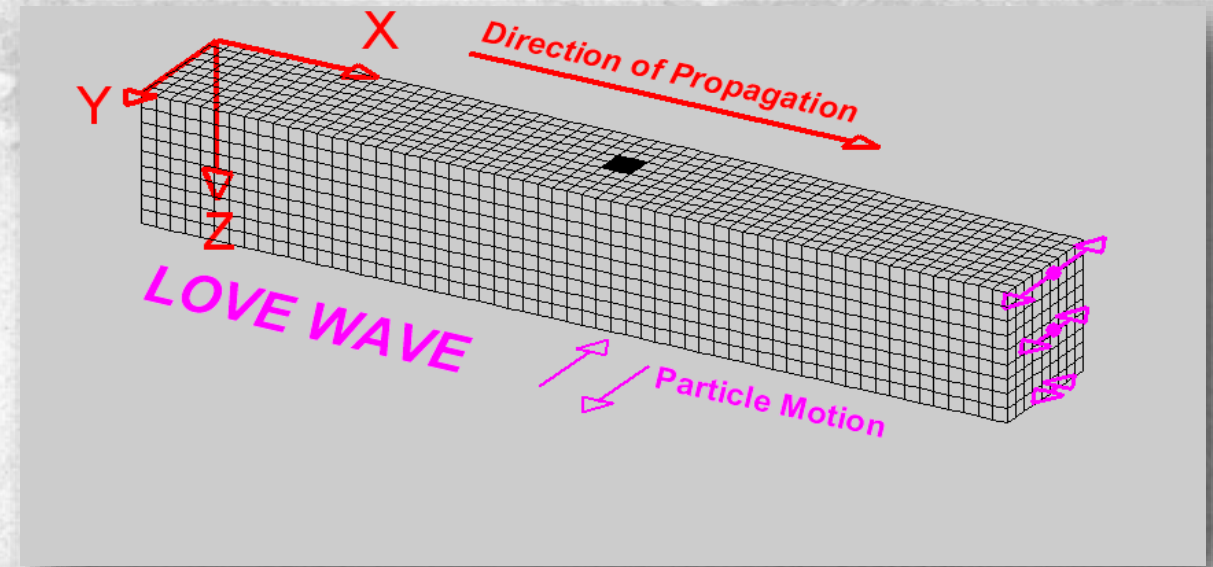
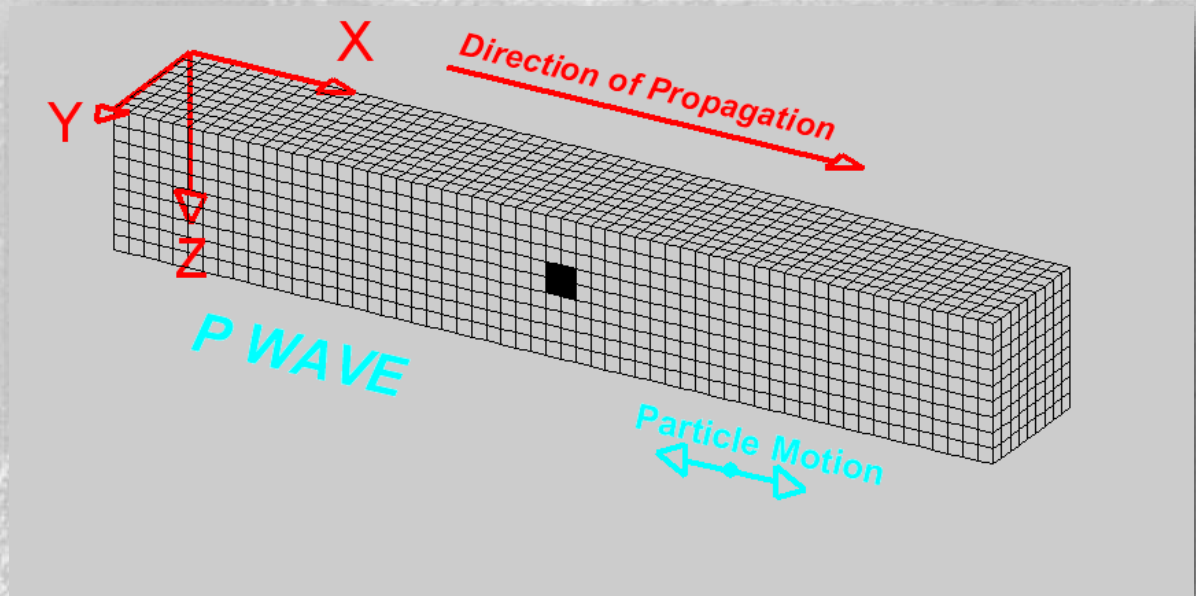


# Why do I feel the Blasting?

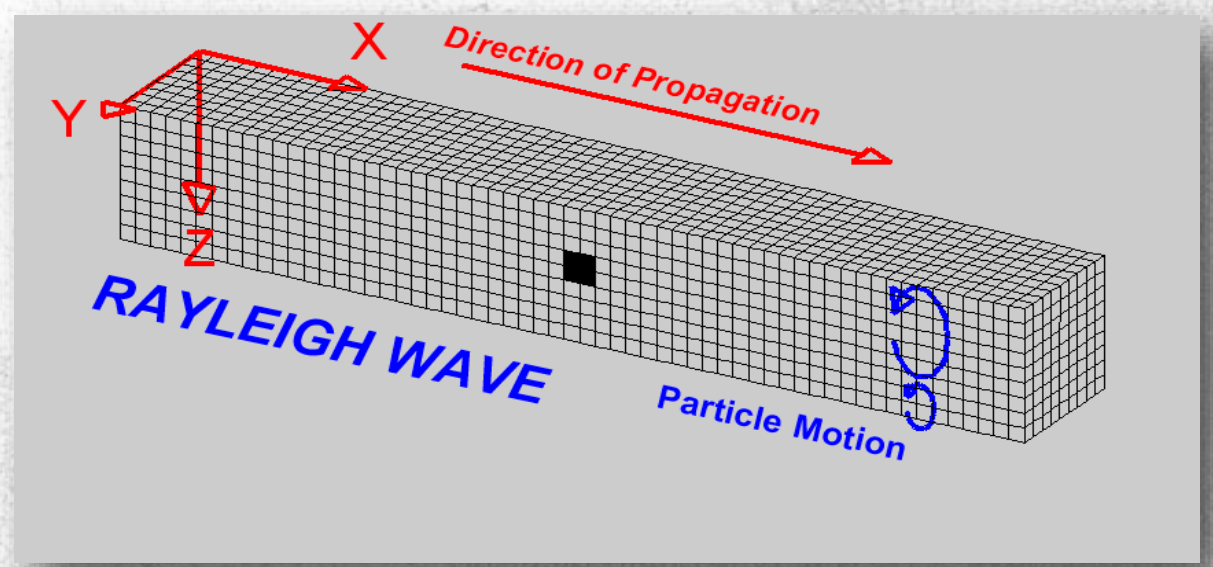
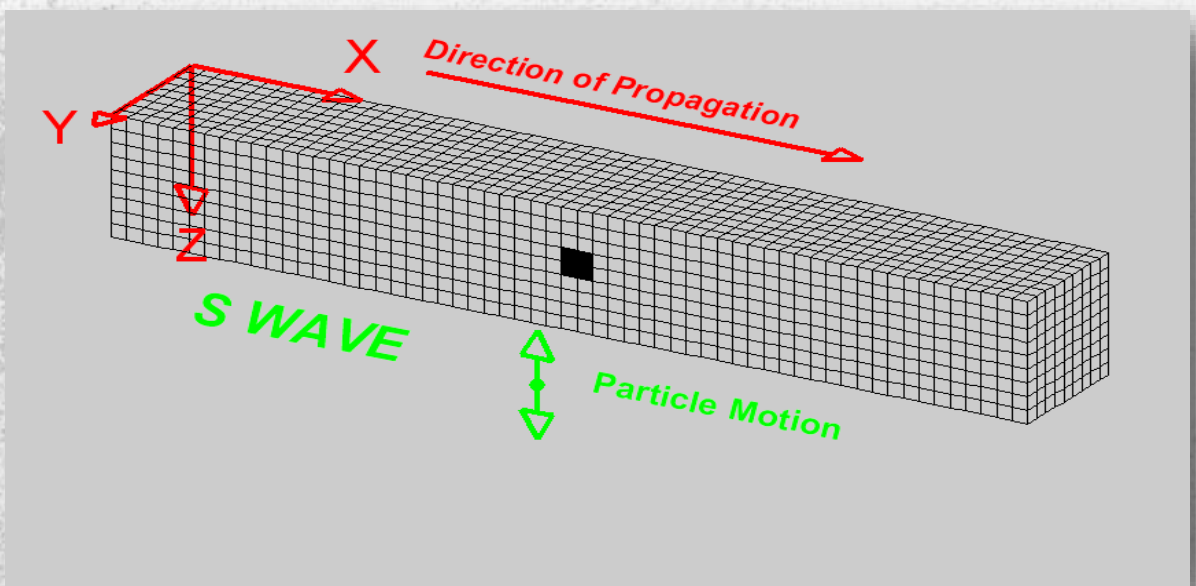
- Although most of the energy from a blast is used to break the rock, some of the energy will travel away from the blast site in the form of ground and airwaves.
- Each of these ground and airwaves can cause your house to vibrate or shake.
- Because humans are very sensitive to all vibrations, it is possible that you will feel or hear these vibrations from the blast at even very low levels.

# Why do some Blasts feel stronger than others?

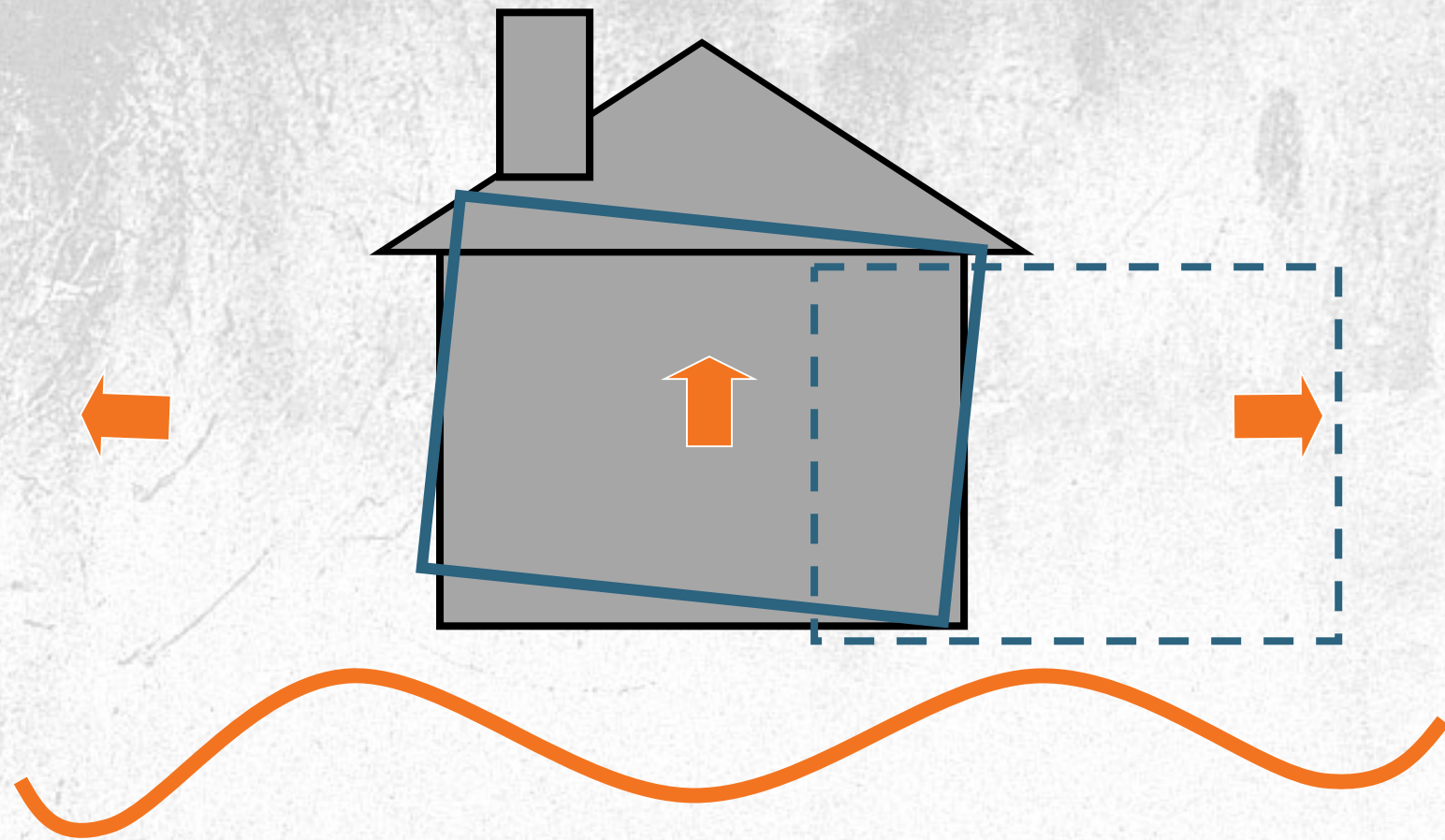
- How a blast feels depends on the ground or airwaves that reach your house. The airwaves are influenced by the type of blast, the distance from the blast and the amount of explosives used in the blast. All blasting is designed and conducted by professionals with years of hands-on experience.
- Where you are on the property also affects your perception of the blast. If you are outside your house, you will tend to feel the ground vibrations in your feet and legs. If you are inside your house, you will sense both the structure and objects in your house responding to the vibrations. Because location affects your perception of the blast, you and your neighbors may feel or describe the same blast differently.



When a blast is detonated, the vibration energy travels through the ground as wave fronts. These waves travel at different speeds, amplitude and direction, depending on the geology of the area. When these waves reach residences, structural response will be noticed.



*Ground Response = Structural Response  
= Human Response*



Structural response is  
directly and linearly proportional to ground  
vibration amplitude

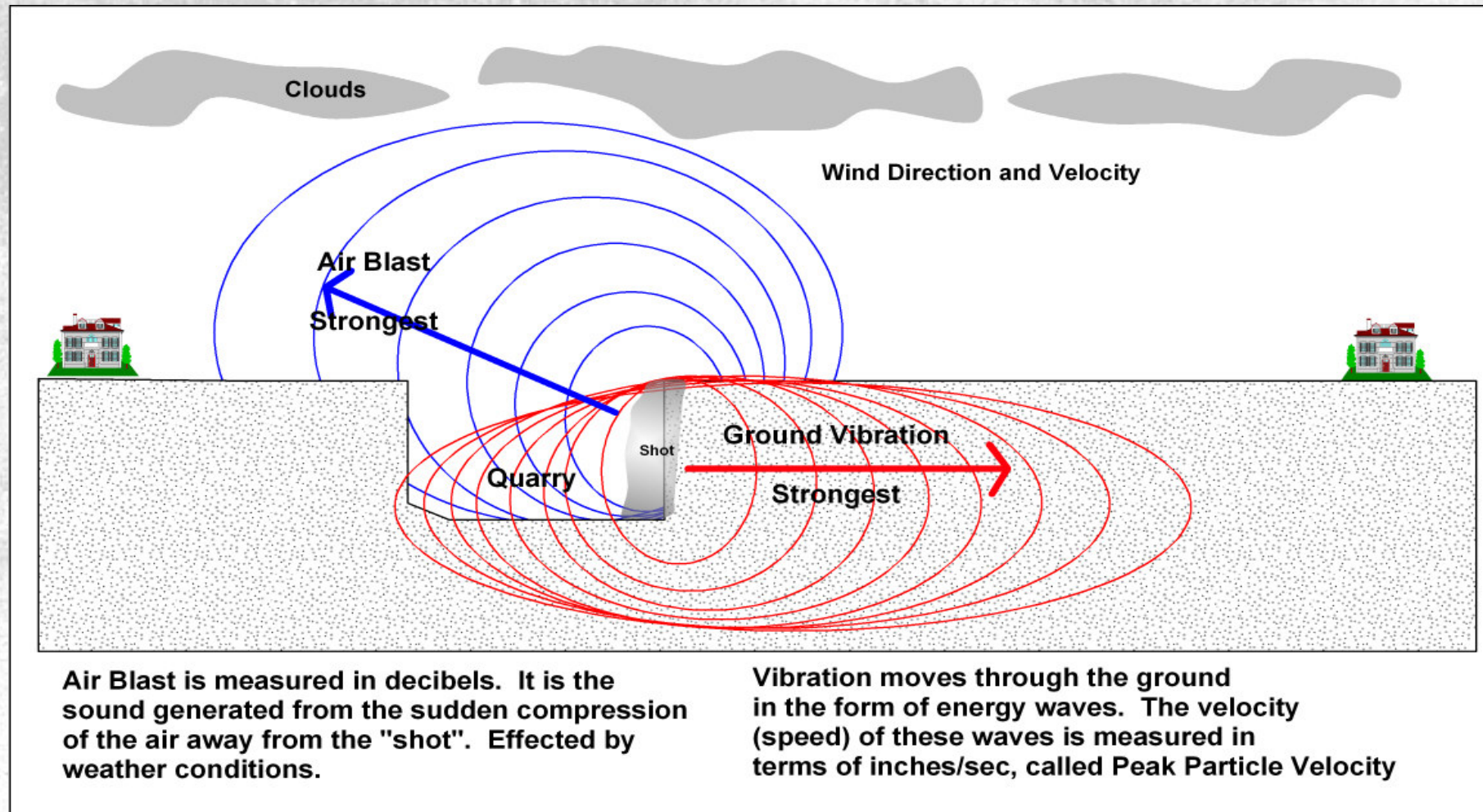
Reduce ground vibration by half and you reduce  
house  
vibration by half

Amplitude, Duration, and Frequency are  
all factors that effect structural  
response.

All homes respond differently.

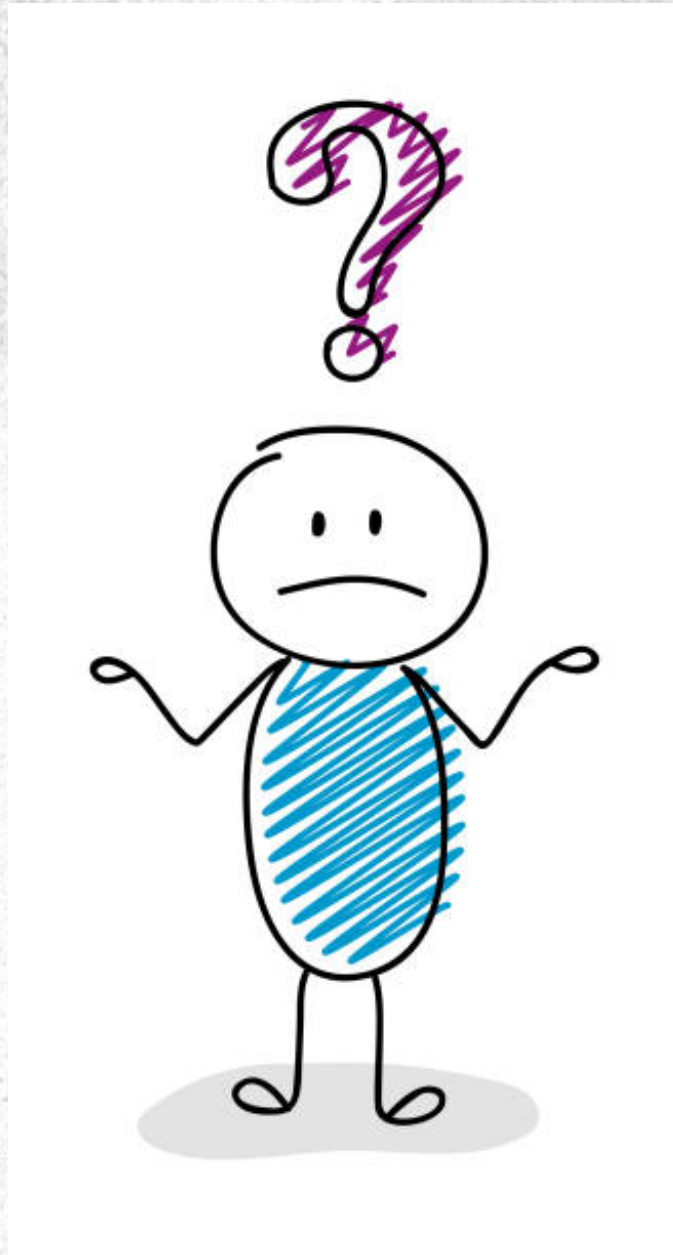
Measuring these factors helps us  
determine safe structural response.

Self-triggering seismographs  
automatically measure these factors.



Air overpressure is a compression wave measured as a change in atmospheric pressure. It is generated by the movement of the rock from the blast. The air overpressure can make your home feel two separate vibrations.

# Can these vibrations damage my home?



Humans feel vibrations at very low levels. Although we are very good at detecting vibrations, we are not very good at determining their intensity.

- How we measure
- Foundation response
- Vibration and Air comparisons



Modern homes are built to specific municipality regulation

The design of each home and its building materials can make the response feel greater or less.

The natural frequency response of a home affects its response to vibration.

The mass, stiffness, and height of an object greatly effects its frequency.



# Natural Frequency





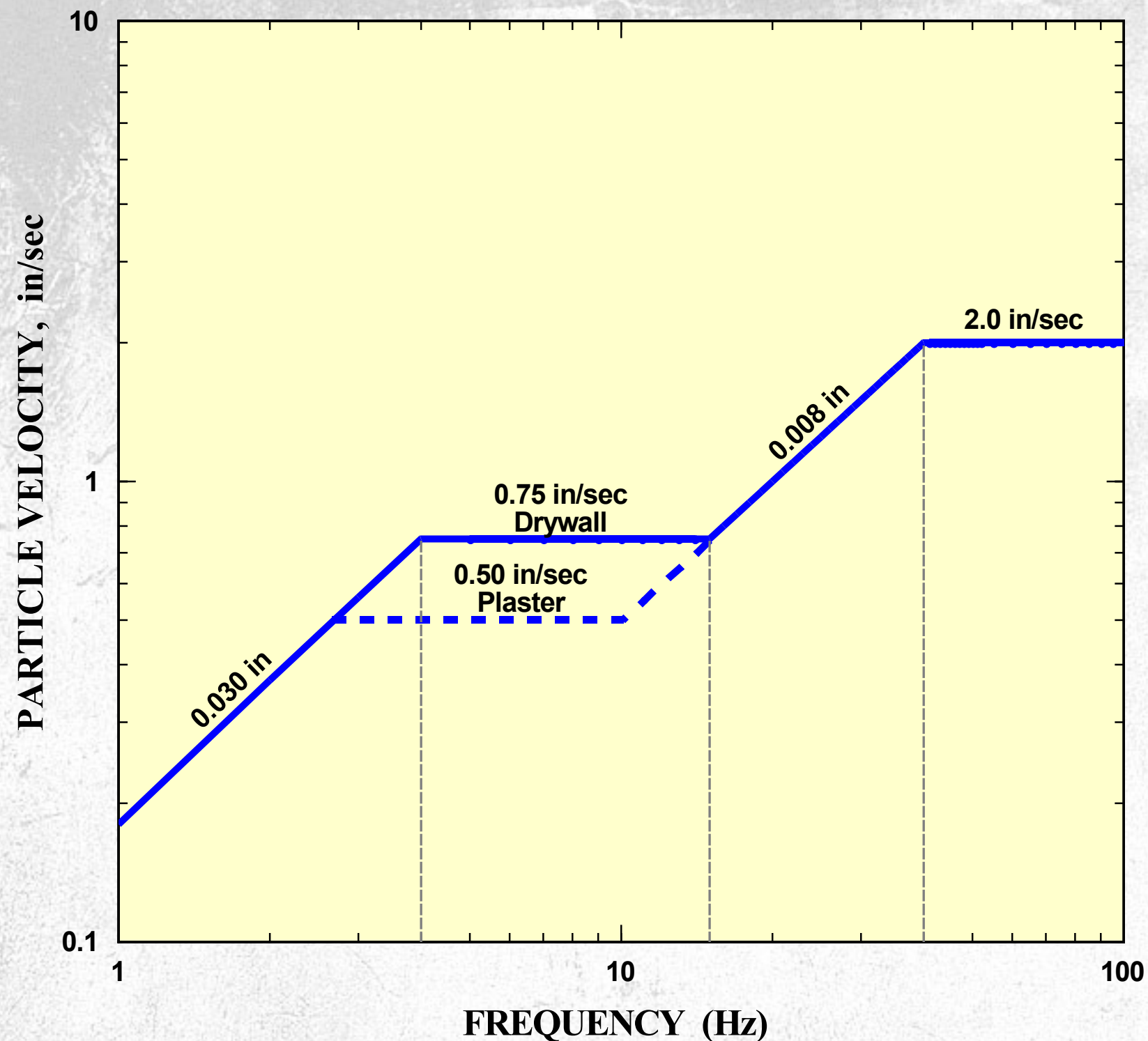
# Natural Frequency





# Natural Frequency



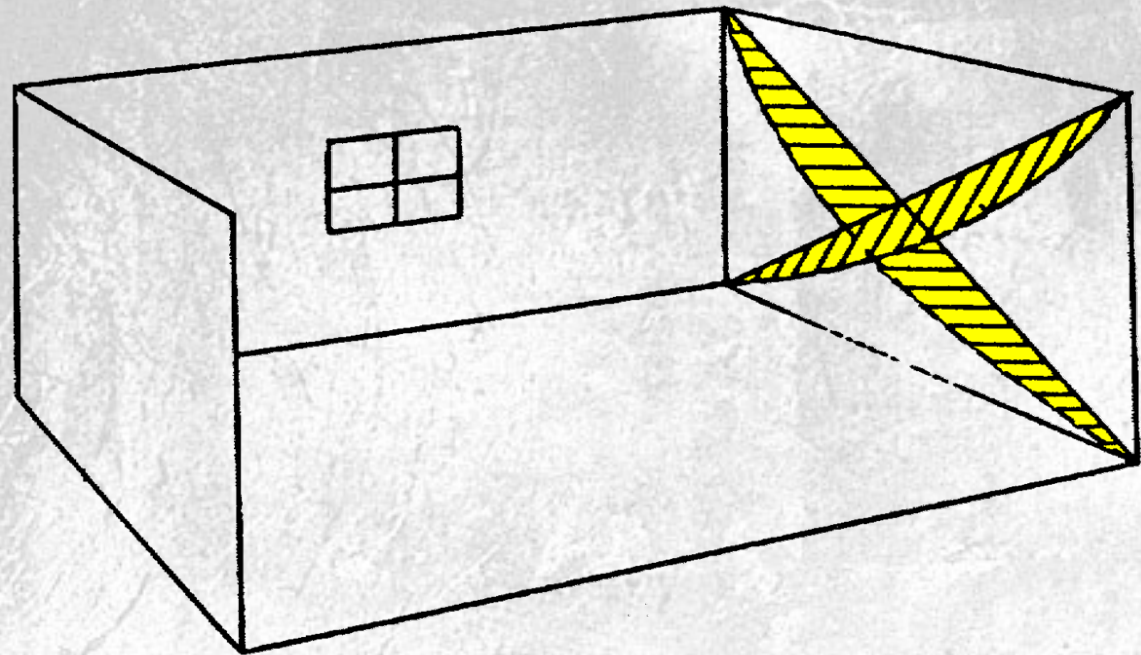


The USBM (U.S. Bureau of Mines) Z-curve is the standard used to assess safe ground vibration.

Drywall is the most common building material used in new residential construction.

Each particle velocity must correspond with a frequency to accurately plot on this graph.

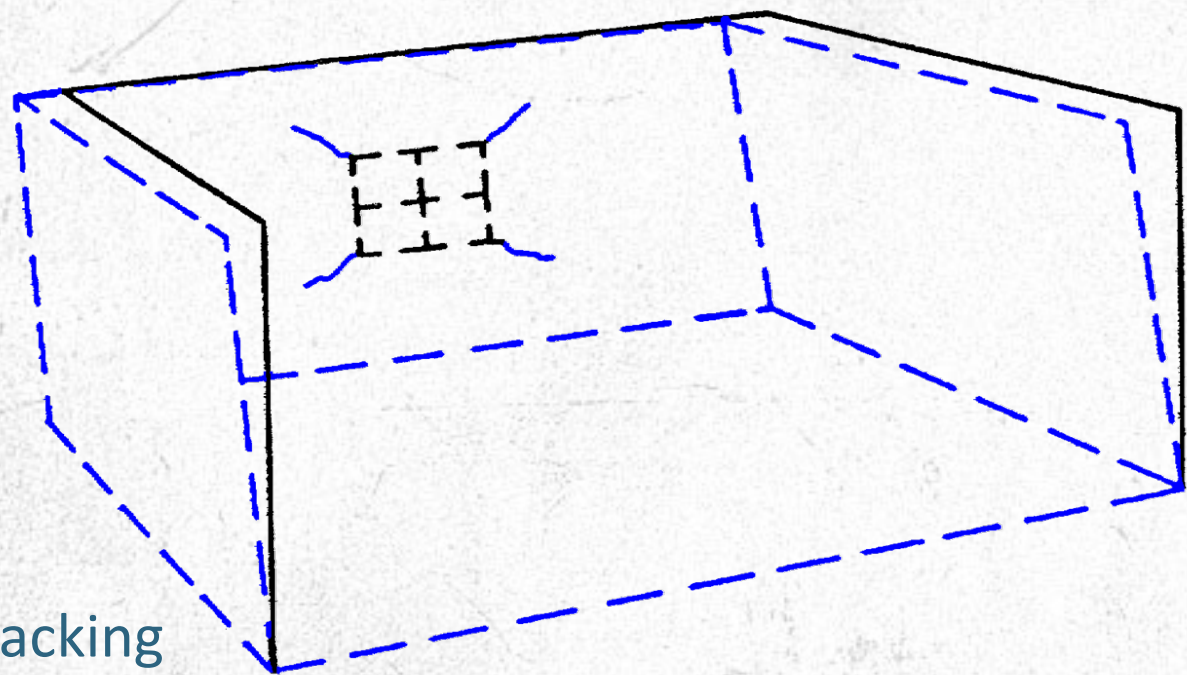
The higher the frequency, the higher allowance of peak particle velocity.



Midwall  
Response

Bending

In the state of Texas, foundation settling is a common occurrence. Soils expand and contract due to the weather and other environmental factors.

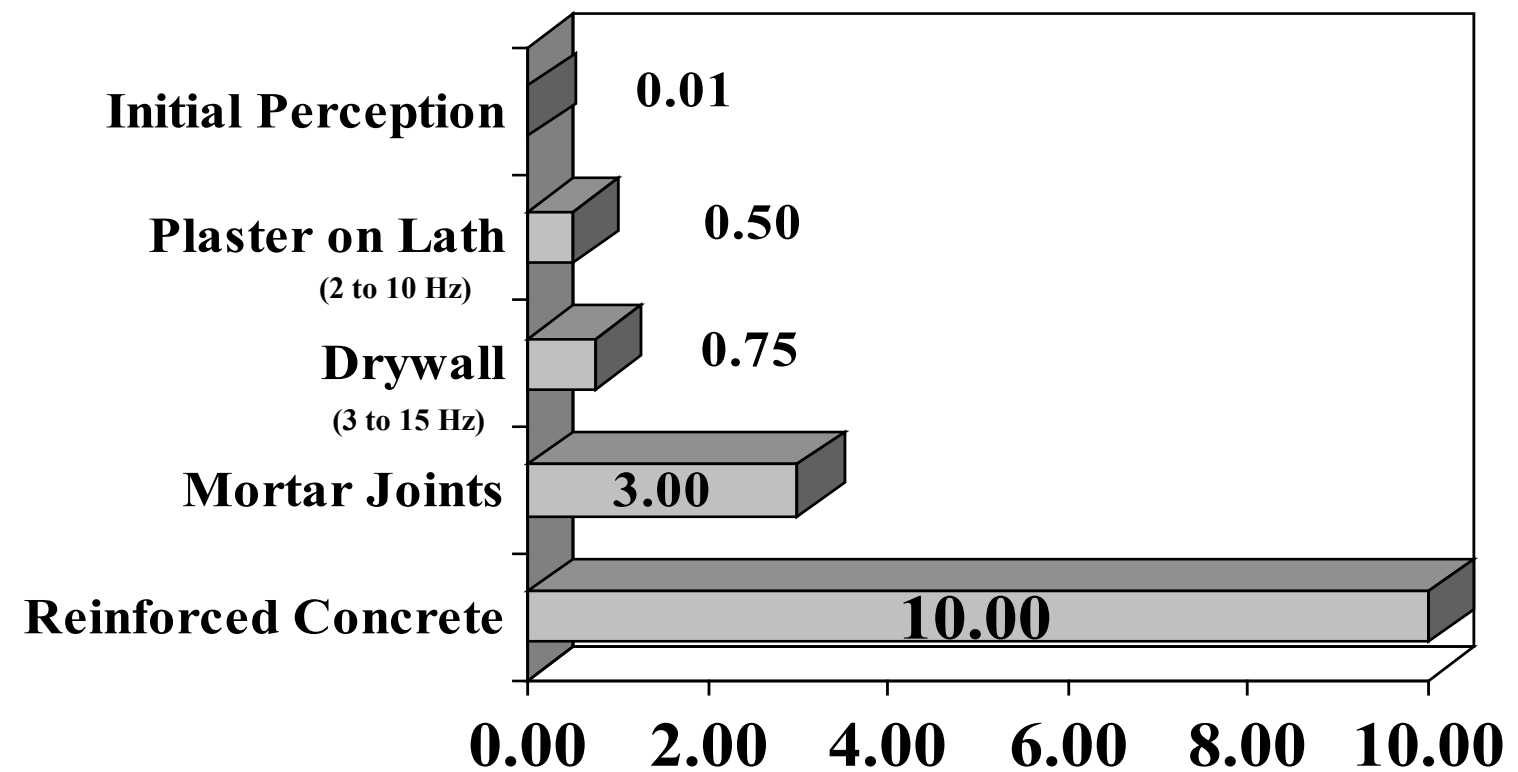


Racking  
Response

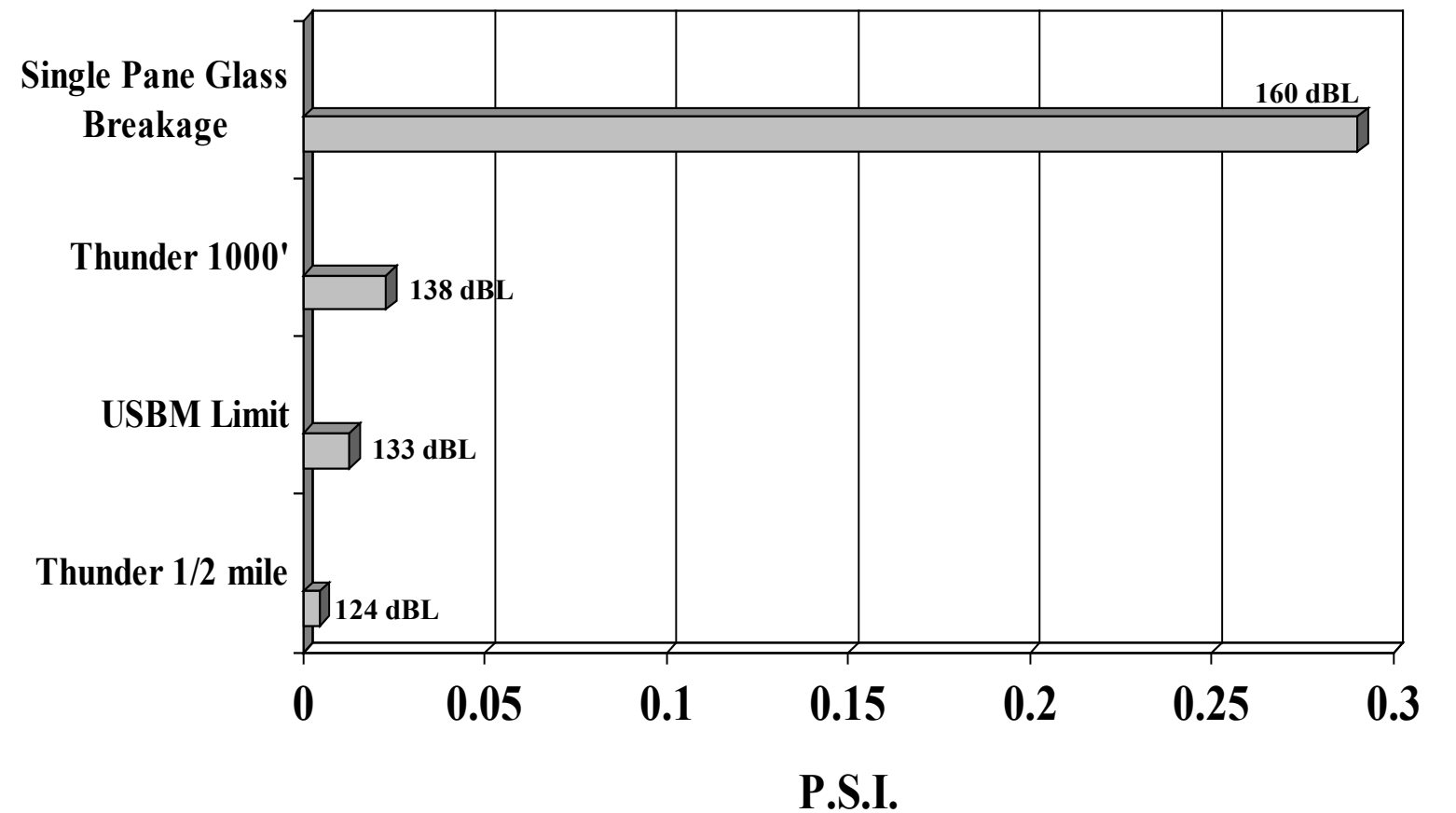
Shear

Foundational cracking resulting from blasting ground vibration without wall damage is almost unheard of.

## Vibration Standards



## Air Overpressure Level Comparisons



The graphics above show some comparison data for ground vibration and air overpressure.

# What are safe vibration standards for blasting near homes?



- USBM study – Best Science & Data
- Ordinance 34
- Seismic monitoring and data collection

# USBM RI-8507

“Structure Response and Damage Produced by Ground Vibration from Surface Mine Blasting”

The United States Bureau of Mines (USBM) studied the repeated effects of vibration on structures. They concluded that as long as the vibration levels were below regulated limits, cumulative or repeated effects that produce fatigue were not seen.

Their conclusions summarized that a home could withstand blasting twice per day at 0.50 inch per second for 28 years before the first crack would be expected to be extended, let alone a new crack created.

# USBM RI-8507

“Structure Response and Damage Produced by Ground Vibration from Surface Mine Blasting”

In the same study, they found that there were forces acting on the structures that were greater than the levels from the blasting operation. These factors were changes in temperature and changes in humidity. These forces occur every day and are constantly putting strain on the structure in excess of the vibration. Since these occur over many years daily during the life of the structure, with greater effect there is little vibration will do within the regulatory limits.

# USBM RI-8507

“Structure Response and Damage Produced by Ground Vibration from Surface Mine Blasting”

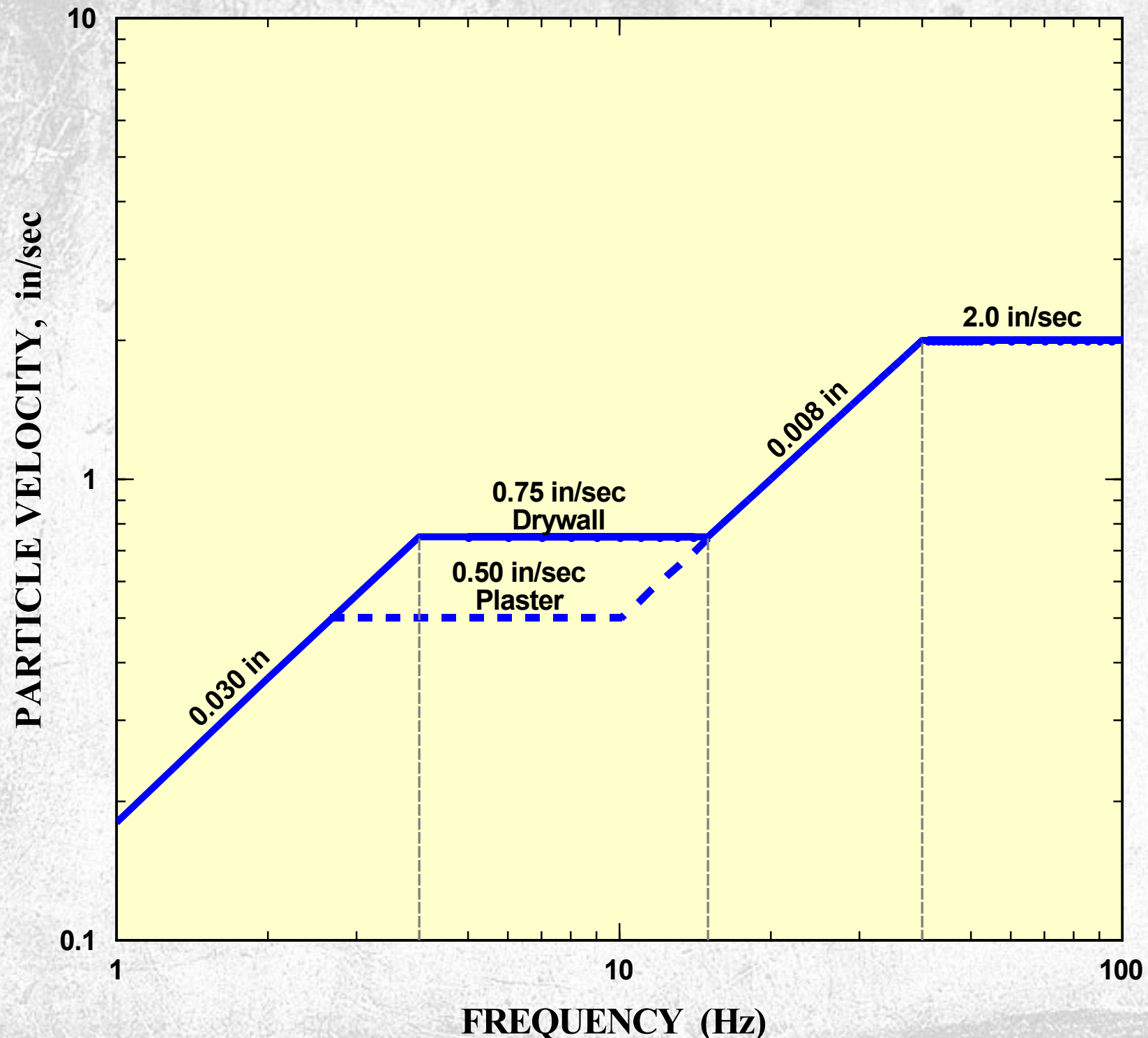
In this study, damage from actual surface-mine production blasting was observed in 76 residences for 219 production blasts. This data along with damage data from six additional studies were combined with the historical data from Bulletin 656.

# Ordinance 34 Limits

In North America, safe vibration standards are based on scientific studies conducted by the U.S. Bureau of Mines (USBM). These ground and air vibration limits are based on scaled distance, peak particle velocity, air pressure and frequency, and are derived from the best science available.

Complying with these standards will prevent even cosmetic cracking in structures. Furthermore, slightly exceeding these standards does not necessarily mean that a structure will be harmed.

# Ordinance 34 Limits



For ground vibrations, the standard is a function of frequency and peak particle velocity. At low frequencies, the limit is 0.75 inches per second (in./sec.). At high frequencies, the limit is up to 2.0 in./sec.

For air vibrations, the standard is a function of pressure that is most often reported as decibels with a limit of 134 decibels (dB).

# Vibration Monitoring



- Vibra-Tech is the independent third-party technical expert retained by the City of Garden Ridge to monitor all blasting activity.
- The monitoring involves a minimum of six (6) and a maximum of nine (9) seismographs that surround the Hanson Servtex Quarry. The City of Garden Ridge determines where the monitors will be located.
- Each seismograph measures peak particle velocity, frequency, and air overpressure for every production blast.

# Vibration Monitoring

- Each seismograph is calibrated annually to ensure they are operating within the required specifications.
- Air particulate monitor(s) and noise monitor(s) are used at the discretion of the City of Garden Ridge.
- All monitoring data is available for public inspection at City Hall, and is available on the City of Garden Ridge's website.

# Citizen Blasting Complaints – Alternative Dispute Resolution (ADR) Process Summary

- There is a voluntary non-binding dispute resolution process available for property owners within the City of Garden Ridge to address certain blasting damage concerns.
- Claims of property damage are reviewed by an independent technical panel.
- Claims are limited to physical property damage <\$10,000
- The process is administered and paid for by Hanson.
- Please refer to Attachment B of [Ordinance 34](#) (link) for further details

# ADR Process Summary

- Step 1 – Initiation of a claim
  - Submit an on-line claim form describing the alleged damage, when it occurred, and the claimed compensation amount.
- Step 2 – Preliminary process
  - Hanson will meet with the property owner to inspect and discuss the alleged damage and amount of compensation sought.
  - A technical damage claim assessment may be completed as warranted.
  - Hanson will attempt to resolve the issue with the property owner, and if the property owner, if not satisfied, may request a hearing.

# ADR Process Summary

- Step 3 – Hearing
  - Within 15 days of the request for a hearing, the independent panel of experts will determine whether the complaint meets the minimum scientific requirements and thereby qualifies for a hearing.
  - The minimum scientific requirements are specified in Ordinance 34.
  - The hearing will be conducted within 30 days of the complaint and conducted by a panel of three independent industry technical experts.
  - The panel will meet quarterly to hear qualified complaints.
- Step 4 – Resolution
  - The panel will make their determination on the merits of the claim based solely on its scientific merits.
  - Hanson and the property owner may resolve the complaint at any time during this ADR process.

# Who can I contact for further information?



**Vibra-Tech Inc.**

[texas@vibratechinc.com](mailto:texas@vibratechinc.com)

512-442-6464

**Hanson Aggregates LLC – Servtex Quarry**

[Lalit.Bhatnagar@lehighhanson.com](mailto:Lalit.Bhatnagar@lehighhanson.com)

972-814-4122

# Future Agenda Items

## Quarry Commission

March 8, 2021

### Regular Meeting

- 12 days before Meeting (2/24/21) Commission and Staff items are due
- 10 days before Meeting (2/26/21) City Administrator and Chair review agenda. City Attorney is sent the agenda for approval.
- 7 days before Meeting (3/01/21) Post Agenda on bulletin board and Commission will receive packet.  
(allowing a day and half for corrections and to request additional information to be added)
- 4 days before Meeting (3/04/21) Post Agenda Packet to CivicClerk
- 3 days before Meeting (3/05/21) (72 hours) – Local Government Code requirement for posting

City Council = Red

Impact Fee Committee = Pink

Quarry Commission = Purple

Planning & Zoning = Green

Water Commission = Blue

Wildlife Management Advisory Commission = Brown

Sun	Mon	Tues	Wed	Thur	Fri	Sat
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	31			

#### Approvals

1. Minutes 1-11-21

#### Public Hearings/Recommendations

#### Discussion/Reports

1. Monthly Blasting Analysis Data and Monitoring of Blasts
2. Citizen Blast Impact Reports
3. City Council Update
4. Ordinance No. 210-022018
5. Future Agenda Items
  - a. Commissioners' input

#### Education/Training Session

#### Executive Session

PENDING FUTURE AGENDA ITEMS

## Quarry Commission Rolling Attendance

Commissioner	3/11/19 Regular Meeting	5/13/19 Regular Meeting	6/10/19 Special Meeting	7/8/19 Regular Meeting	8/12/19 Special Meeting	9/9/19 Regular Meeting	1/13/20 Regular Meeting	3/9/20 Regular Meeting	9/14/20 Regular Meeting	11/9/20 Regular Meeting
Shands	P	P	P	P	P	P	P	P	P	P
Barucky	P	P	P	P	P	P	P	P	P	P
Vacant										
Haddad	P	U	U	P	U	P	P	P	P	A
Armando								P	P	P
Holly	P	P	A	P	P	P	P	P	P	P
Mudge	P	P	P	P	P	P	A	P	P	P

P	Present	P-QNM	Present but quorum not met	E	Excused for reasons allowed in Ord. 210
U	Unannounced Absence		Not member yet	A	Voluntary Announced Absence

## Quarry Commission's Attendance at City Council Regular Meetings

Commissioners	1/2/20 Regular Meeting	2/5/20 Regular Meeting	3/4/20 Regular Meeting	6/3/20 Regular Meeting	7/1/20 Regular Meeting	8/5/20 Regular Meeting	9/2/20 Regular Meeting	10/7/20 Regular Meeting	11/4/20 Regular Meeting	12/2/20 Regular Meeting	Total for year
Shands											0
Barucky											0
Vacant											0
Haddad											0
Armando				P							1
Holly	P	P	P		P			P			5
Mudge											0
	Met requirements			Not met requirements							