



City of Garden Ridge

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

AGENDA QUARRY COMMISSION REGULAR MEETING MONDAY, SEPTEMBER 12, 2022, 6:00 P.M.

The Garden Ridge Quarry Commission will meet in a regular session on Monday, September 12, 2022, 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 May 9, 2022, and July 11, 2022, Quarry Commission Regular Meetings.
- 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/roving monitor and other matters related to monitoring of blasts, including historical blasting data spreadsheet.
4. Items applicable to the Quarry Commission discussed at the July, August, and September City Council Meetings, including matters related to the dissolution of the Quarry Commission.

6. **Citizen Comment Period** – limited to 20 minutes total
See “Rules for Citizen’s Participation” under Item 4.

7. **Adjournment**

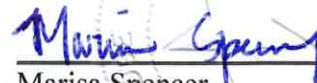
AGENDA NOTICES:

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.

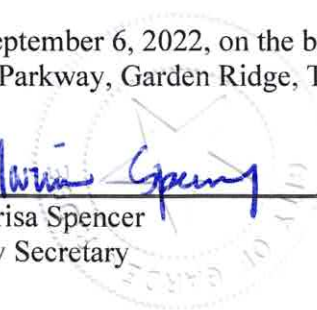
Action by Commission Authorized: The Commission may vote or act upon any item within this agenda.

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, Marisa Spencer, posted this Agenda at 1:00 p.m. on September 6, 2022, on the bulletin board located at the entrance to the Garden Ridge City Hall, 9400 Municipal Parkway, Garden Ridge, Texas.



Marisa Spencer
City Secretary





MINUTES
QUARRY COMMISSION REGULAR MEETING
MONDAY, MAY 9, 2022, 6:00 P.M.

Commissioners Present:

Chair Jerry Barucky
Vice-Chair Armando Diaz
Commissioner Mike Shands
Commissioner David Biersner
Commissioner Wayne Mudge
Commissioner Johnell Holly

Commissioners Absent:

Vacant Position
Councilmember John McCaw, Ex-officio

City Staff, City Councilmembers, or Other Commissioners Present:

Nancy Cain, City Administrator
Kat Balbi, Assistant City Secretary/Communications Specialist

1. Call to Order

With a quorum of the Quarry Commissioners present, Chair Barucky called the regular meeting of the Garden Ridge Quarry Commission to order at 6:00 p.m. on Monday, May 9, 2022, 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 Barucky 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 March 14, 2022, Quarry Commission Regular Meeting.

Motion: A motion was made by Commissioner Mudge, seconded by Commissioner Holly, to approve the March 14, 2022, Quarry Commission Regular Meeting Minutes. The Commission voted five (5) 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 Vibra-Tech. 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.

Nick Rettinger, Vibra-Tech, presented and discussed the March blast analysis. He stated that 15 shots occurred during the month of March and none of the blasts exceeded the limits of Ordinance No. 34. He reported the highest PPV reading of 0.155 occurred on March 24th at the Warden Residence and the highest Air Overpressure of 114 dB occurred on March 17th at the Warden Residence.

Nick Rettinger, Vibra-Tech, presented and discussed the April blast analysis. He stated that 18 shots occurred during the month of April and none of the blasts exceeded the limits of Ordinance No. 34. He reported the highest PPV reading of 0.148 occurred on April 20th at the Holly Residence and the highest Air Overpressure of 118 dB occurred on April 6th at the Holly 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.

Nick Rettinger, Vibra-Tech, spoke regarding the citizen blast reports received in March through April and answered questions from the Commission.

3. Discussion on number of, placement, and location of monitors and other matters related to monitoring of blasts by Vibra-Tech and notification to residents of monitor placements.

The Commission discussed leaving the roving monitor at the Biesner Residence.

4. Items applicable to the Quarry Commission discussed at the April and May City Council Regular Meetings.

City Administrator Nancy Cain provided the Commission with an update on the items discussed at the April and May City Council Regular Meetings.

5. Review historical data spreadsheet.

The Commission discussed the historical data spreadsheet prepared by Chair Barucky.

c) Education/Training

1. Review “Quarry Terminology”.

The Commission discussed the glossary of terminology and agreed by consensus to table any action on this item until the Commission has had sufficient time to review.

2. Discuss future education/training sessions and Grapevine articles.

The Commission had none at this time.

d) Future Agenda Items

1. Commissioners input for items on upcoming agendas.

The Commission had none at this time.

2. Announcement of next Quarry Commission Regular Meeting.

Chair Barucky announced the next Quarry Commission Regular Meeting will be held on Monday, July 11, 2022, 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 Commissioner Biersner, seconded by Commissioner Holly, to adjourn. The Commission voted five (5) for and none (0) opposed. The motion carried unanimously. There being no further business, the Monday, May 9, 2022, Quarry Commission Regular Meeting was adjourned at 7:04 p.m. by Chair Barucky.

ATTEST:

Jerry Barucky
Chair

Marisa Spencer
City Secretary



MINUTES
QUARRY COMMISSION REGULAR MEETING
MONDAY, JULY 11, 2022, 6:00 P.M.

Commissioners Present:

Chair Jerry Barucky
Vice-Chair Armando Diaz
Commissioner David Biersner
Commissioner Wayne Mudge
Commissioner Johnell Holly

Commissioners Absent:

Commissioner Mike Shands
Vacant Position

City Staff, City Councilmembers, or Other Commissioners Present:

Nancy Cain, City Administrator
Marisa Spencer, City Secretary
Mayor Pro-Tem Lisa Swint

1. Call to Order

With a quorum of the Quarry Commissioners present, Chair Barucky called the regular meeting of the Garden Ridge Quarry Commission to order at 6:00 p.m. on Monday, July 11, 2022, 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 Barucky 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 action.

a) 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.

Nick Rettinger, Vibra-Tech, presented and discussed the May blast analysis. He stated that 19 shots occurred during the month of May and none of the blasts exceeded the limits of Ordinance No. 34. He reported the highest PPV reading of 0.133 occurred on May 11th at the Holly Residence and the highest Air Overpressure of 112 dB occurred on May 5th at the Warden Property Line.

Nick Rettinger, Vibra-Tech, presented and discussed the June blast analysis. He stated that 19 shots occurred during the month of June and none of the blasts exceeded the limits of Ordinance No. 34. He reported the highest PPV reading of 0.183 occurred on June 14th at the Warden Property Line and the highest Air Overpressure of 126 dB occurred on June 29th at the Holly Residence.

2. Review individual citizen blast reports received during reported month/s.

Nick Rettinger, Vibra-Tech, spoke regarding the citizen blast reports received in May through June and answered questions from the Commission.

3. Location, placement, and number of monitors and other matters related to monitoring of blasts, including placement of roving monitor.

The Commission discussed leaving the roving monitor at the Biersner Residence.

4. Items applicable to the Quarry Commission discussed at the June City Council Meeting.

City Administrator Nancy Cain stated there were no items applicable to the Quarry Commission discussed at the June City Council Meeting.

5. Review historical blasting data spreadsheet.

The Commission discussed the historical data spreadsheet prepared by Chair Barucky.

b) Education/Training

1. Discuss future education/training sessions and Grapevine articles.

The Commission had none at this time.

c) Future Agenda Items

1. Commissioners input on agenda items.

The Commission had none at this time.

2. Announce the date, time, and location for next meeting (September 12, 2022, at 6pm in City Hall).

Chair Barucky announced the next Quarry Commission Regular Meeting will be held on Monday, September 12, 2022, 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 Commissioner Holly, 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, July 11, 2022, Quarry Commission Regular Meeting was adjourned at 6:47 p.m. by Chair Barucky.

ATTEST:

Jerry Barucky
Chair

Marisa Spencer
City Secretary



Vibra-Tech

VibraTechinc.com

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

Phone 512.442.6464
Fax 512.442.6552

August 15, 2022

Mr. Jerry Barucky
Garden Ridge Quarry Commission
9400 Municipal Parkway
Garden Ridge, Texas 78266

Dear Mr. Barucky,

Enclosed is the analysis for the blasting conducted during the month of July 2022 at the Hanson Aggregates Quarry in Garden Ridge, Texas. Please place this information in your 2022 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) 651-7358, or attend the Quarry Commission meeting held every other month (odd months) at 6:00 PM.

Respectfully submitted,

VIBRA-TECH, INC.

Nicholas Reitinger
Area Manager

cc: William Saly, Hanson – Servtex

3009

Michels Res

7/26/2022 Aggie NW. A

7/14/2022 Aggie Pit NW B

7/18/2022 Aggie SW A

7/29/2022 Aggie SE. A

7/5/2022 Base Pit N.

7/13/2022 Base Pit N. A

Garden Ridge Elementary

Warden Prop

Warden

City Prop Line

Garden Ridge

Holly

7/27/2022 Legacy Strip A

7/12/2022 Legacy Stripping A

7/7/2022 Legacy E. A

7/18/2022 Legacy 2

7/28/2022 Legacy E. B

Bracken United Methodist Church &

Nacogdoches Rd

3009

Biersner

Nacogdoches Rd

Google Earth

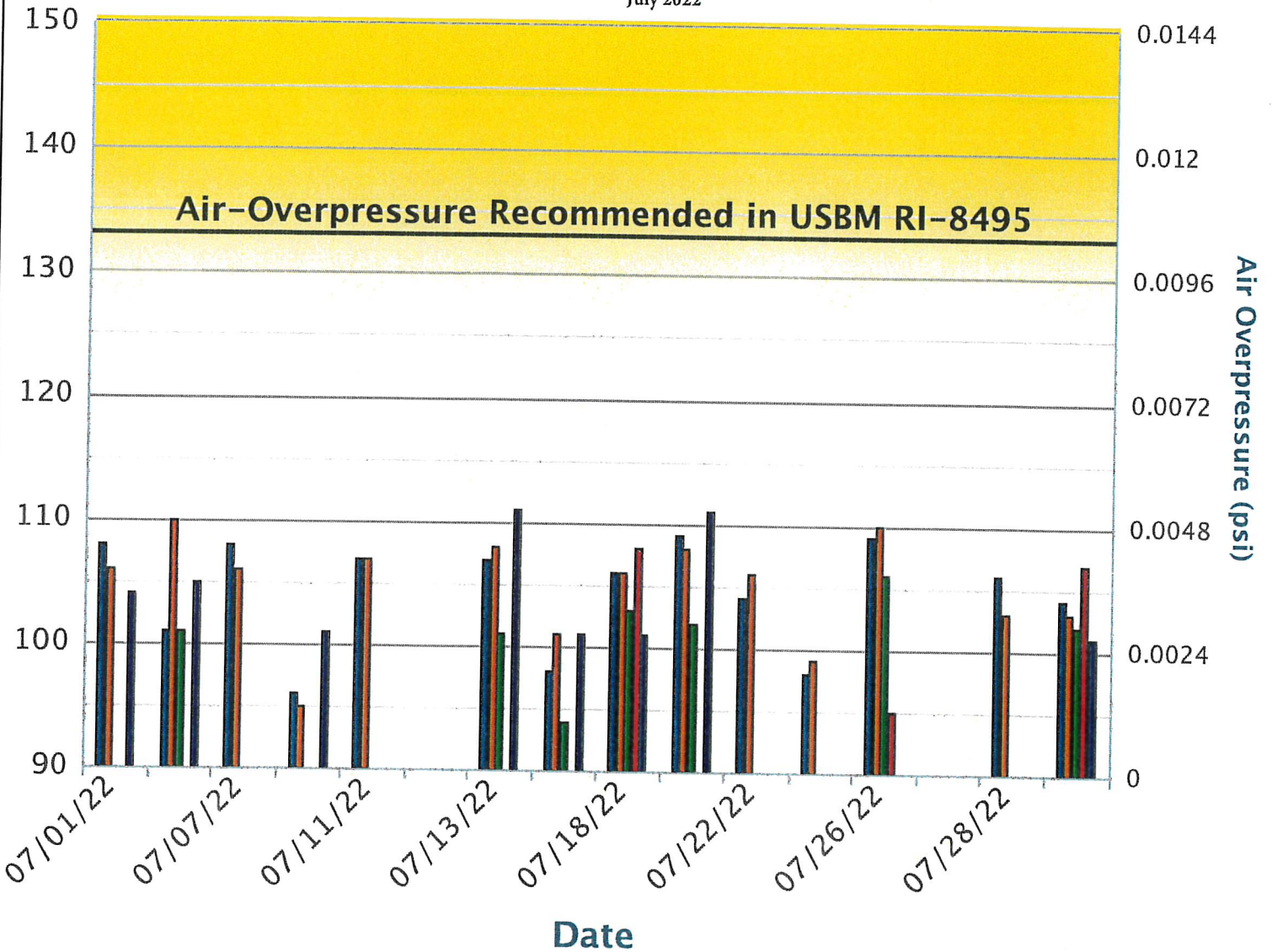
Northeast Bible Church

Capparelli's Italian Food, Pizza, & Catering

5000 ft

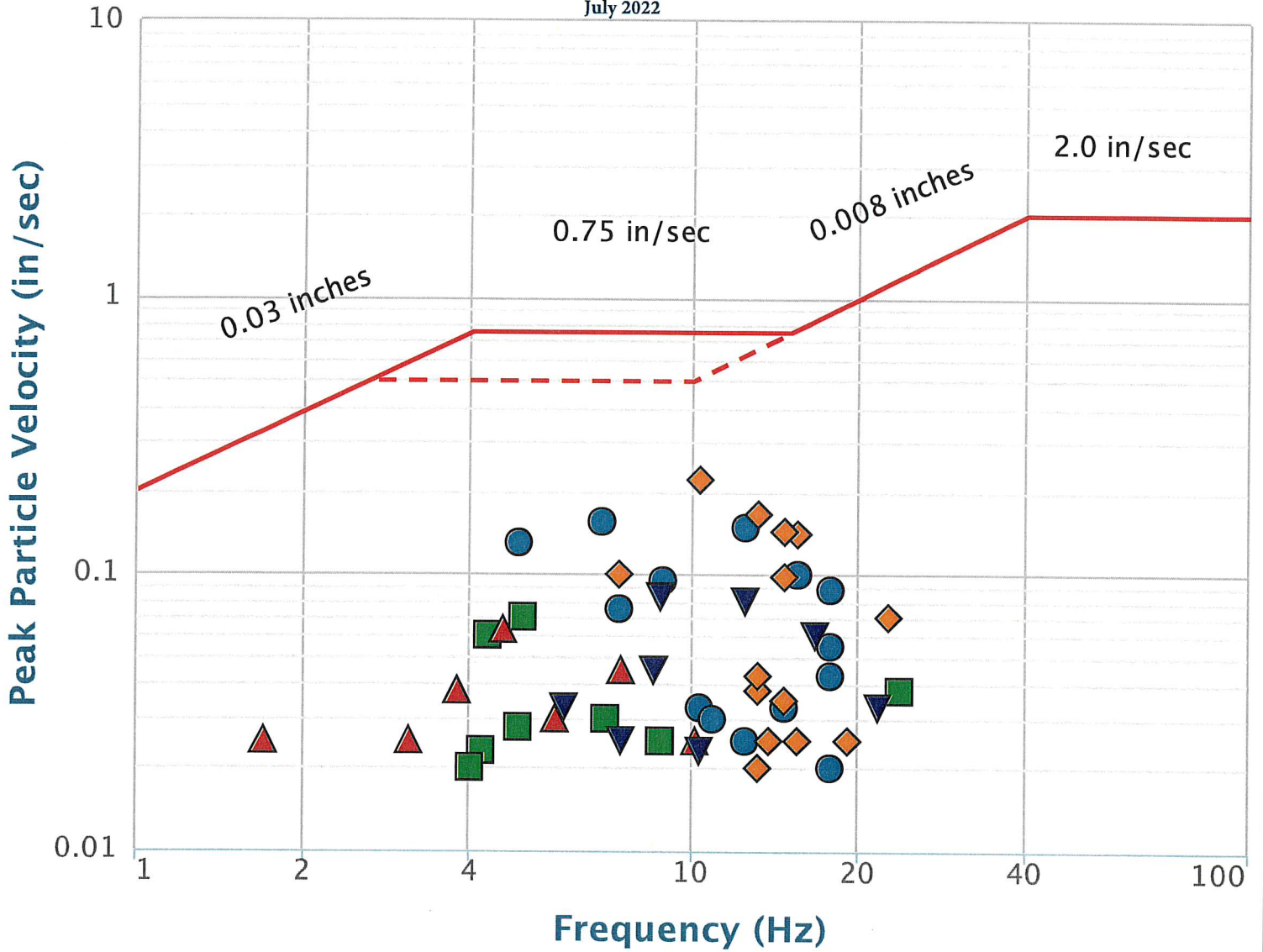
Garden Ridge Quarry Commission
Garden Ridge, Texas
AO Graph
July 2022

Air-Overpressure Recommended in USBM RI-8495



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

Garden Ridge Quarry Commission
Garden Ridge, Texas
USBM Graph
July 2022



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

HANSON - SERVTEX QUARRY

GARDEN RIDGE, TEXAS

JULY 2022

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
07/01/22	07/01/2022 Legacy B	N 29° 38' 4.56" W 098° 16' 20.6"	CLEAR 95° S 5	15:14	N/T	N/T	N/A	1188	1163	8410	City Property Line
07/01/22	07/01/2022 Legacy B	N 29° 38' 4.56" W 098° 16' 20.6"	CLEAR 95° S 5	15:14	N/T	N/T	N/A	1188	1163	8308	Biersner Residence
07/01/22	07/01/2022 Legacy B	N 29° 38' 4.56" W 098° 16' 20.6"	CLEAR 95° S 5	15:14	N/T	N/T	N/A	1188	1163	11356	Michels Residence
07/01/22	07/01/2022 Legacy B	N 29° 38' 4.56" W 098° 16' 20.6"	CLEAR 95° S 5	15:14	0.023	10.4	104	1188	1163	5886	Holly Residence
07/01/22	07/01/2022 Legacy B	N 29° 38' 4.56" W 098° 16' 20.6"	CLEAR 95° S 5	15:14	0.043	17.9	108	1188	1163	7235	Warden Residence
07/05/22	7/5/2022 Base Pit N.	N 29° 38' 30.66" W 098° 17' 11.30"	CLEAR 96° S 17	14:25	N/T	N/T	N/A	958	404	6827	Biersner Residence
07/05/22	7/5/2022 Base Pit N.	N 29° 38' 30.66" W 098° 17' 11.30"	CLEAR 96° S 17	14:25	0.023	4.2	101	958	404	3860	City Property Line
07/05/22	7/5/2022 Base Pit N.	N 29° 38' 30.66" W 098° 17' 11.30"	CLEAR 96° S 17	14:25	0.025	1.7	83	958	404	6270	Michels Residence
07/05/22	7/5/2022 Base Pit N.	N 29° 38' 30.66" W 098° 17' 11.30"	CLEAR 96° S 17	14:25	0.08	12.5	105	958	404	2063	Holly Residence
07/05/22	7/5/2022 Base Pit N.	N 29° 38' 30.66" W 098° 17' 11.30"	CLEAR 96° S 17	14:25	0.1	15.6	101	958	404	2643	Warden Residence
07/07/22	7/7/2022 Legacy E. A	N 29° 38' 8.02" W 098° 16' 19.15"	SUNNY 98° SW 7	13:18	N/T	N/T	N/A	1048	710	8573	Biersner Residence
07/07/22	7/7/2022 Legacy E. A	N 29° 38' 8.02" W 098° 16' 19.15"	SUNNY 98° SW 7	13:18	N/T	N/T	N/A	1048	710	11347	Michels Residence
07/07/22	7/7/2022 Legacy E. A	N 29° 38' 8.02" W 098° 16' 19.15"	SUNNY 98° SW 7	13:18	N/T	N/T	N/A	1048	710	5960	Holly Residence
07/07/22	7/7/2022 Legacy E. A	N 29° 38' 8.02" W 098° 16' 19.15"	SUNNY 98° SW 7	13:18	N/T	N/T	N/A	1048	710	8469	City Property Line
07/07/22	7/7/2022 Legacy E. A	N 29° 38' 8.02" W 098° 16' 19.15"	SUNNY 98° SW 7	13:18	0.02	17.9	108	1048	710	7277	Warden Residence
07/08/22	7/8/2022 Legacy 2	N 29° 38' 5.63" W 098° 16' 28.93"	CLEAR 91° SE 10	11:59	N/T	N/T	N/A	1376	691	10637	Michels Residence
07/08/22	7/8/2022 Legacy 2	N 29° 38' 5.63" W 098° 16' 28.93"	CLEAR 91° SE 10	11:59	N/T	N/T	N/A	1376	691	7696	Biersner Residence

NT = No Trigger, <0.020ips.

NT = No Trigger, <122dB

HANSON - SERVTEX QUARRY
GARDEN RIDGE, TEXAS
JULY 2022

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
07/08/22	7/8/2022 Legacy 2	N 29° 38' 5.63" W 098° 16' 28.93"	CLEAR 91° SE 10	11:59	0.02	4	87	1376	691	7670	City Property Line
07/08/22	7/8/2022 Legacy 2	N 29° 38' 5.63" W 098° 16' 28.93"	CLEAR 91° SE 10	11:59	0.033	21.7	101	1376	691	5145	Holly Residence
07/08/22	7/8/2022 Legacy 2	N 29° 38' 5.63" W 098° 16' 28.93"	CLEAR 91° SE 10	11:59	0.055	17.9	96	1376	691	6499	Warden Residence
07/11/22	7/11/2022 Legacy E. B	N 29° 38' 4.81" W 098° 16' 19.79"	SUNNY 103° SW 9	15:55	N/T	N/T	N/A	1168	1081	11412	Michels Residence
07/11/22	7/11/2022 Legacy E. B	N 29° 38' 4.81" W 098° 16' 19.79"	SUNNY 103° SW 9	15:55	N/T	N/T	N/A	1168	1081	8383	Biersner Residence
07/11/22	7/11/2022 Legacy E. B	N 29° 38' 4.81" W 098° 16' 19.79"	SUNNY 103° SW 9	15:55	N/T	N/T	N/A	1168	1081	5952	Holly Residence
07/11/22	7/11/2022 Legacy E. B	N 29° 38' 4.81" W 098° 16' 19.79"	SUNNY 103° SW 9	15:55	N/T	N/T	N/A	1168	1081	8474	City Property Line
07/11/22	7/11/2022 Legacy E. B	N 29° 38' 4.81" W 098° 16' 19.79"	SUNNY 103° SW 9	15:55	0.033	10.4	107	1168	1081	7297	Warden Residence
07/12/22	7/12/2022 Legacy Stripping A	N 29° 38' 8.15" W 098° 16' 16.31"	SUNNY 101° S 14	14:42	N/T	N/T	N/A	1776	97	11578	Michels Residence
07/12/22	7/12/2022 Legacy Stripping A	N 29° 38' 8.15" W 098° 16' 16.31"	SUNNY 101° S 14	14:42	N/T	N/T	N/A	1776	97	6206	Holly Residence
07/12/22	7/12/2022 Legacy Stripping A	N 29° 38' 8.15" W 098° 16' 16.31"	SUNNY 101° S 14	14:42	N/T	N/T	N/A	1776	97	8714	City Property Line
07/12/22	7/12/2022 Legacy Stripping A	N 29° 38' 8.15" W 098° 16' 16.31"	SUNNY 101° S 14	14:42	N/T	N/T	N/A	1776	97	7519	Warden Residence
07/12/22	7/12/2022 Legacy Stripping A	N 29° 38' 8.15" W 098° 16' 16.31"	SUNNY 101° S 14	14:42	N/T	N/T	N/A	1776	97	8804	Biersner Residence
07/13/22	7/13/2022 Base Pit N. A	N 29° 38' 31" W 098° 17' 11.78"	PARTLY CLOUDY 101° NE 14	12:24	N/T	N/T	N/A	844	821	6839	Biersner Residence
07/13/22	7/13/2022 Base Pit N. A	N 29° 38' 31" W 098° 17' 11.78"	PARTLY CLOUDY 101° NE 14	12:24	0.028	4.9	101	844	821	3827	City Property Line
07/13/22	7/13/2022 Base Pit N. A	N 29° 38' 31" W 098° 17' 11.78"	PARTLY CLOUDY 101° NE 14	12:24	0.025	3.1	85	844	821	6220	Michels Residence
07/13/22	7/13/2022 Base Pit N. A	N 29° 38' 31" W 098° 17' 11.78"	PARTLY CLOUDY 101° NE 14	12:24	0.06	16.7	111	844	821	2063	Holly Residence

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

HANSON - SERVTEX QUARRY

GARDEN RIDGE, TEXAS

JULY 2022

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
07/13/22	7/13/2022 Base Pit N. A	N 29° 38' 31.17" W 098° 17' 11.78"	PARTLY CLOUDY 101° NE 14	12:24	0.088	17.9	107	844	821	2613	Warden Residence
07/14/22	7/14/2022 Aggie Pit NW B	N 29° 38' 49.73" W 098° 17' 49.26"	SUNNY 101° NE 13	12:59	N/T	N/T	N/A	752	696	8018	Biersner Residence
07/14/22	7/14/2022 Aggie Pit NW B	N 29° 38' 49.73" W 098° 17' 49.26"	SUNNY 101° NE 13	12:59	0.038	23.8	94	752	696	2839	City Property Line
07/14/22	7/14/2022 Aggie Pit NW B	N 29° 38' 49.73" W 098° 17' 49.26"	SUNNY 101° NE 13	12:59	0.07	22.7	101	752	696	2591	Warden Prop Line
07/14/22	7/14/2022 Aggie Pit NW B	N 29° 38' 49.73" W 098° 17' 49.26"	SUNNY 101° NE 13	12:59	0.063	4.6	88	752	696	2720	Michels Residence
07/14/22	7/14/2022 Aggie Pit NW B	N 29° 38' 49.73" W 098° 17' 49.26"	SUNNY 101° NE 13	12:59	0.095	8.9	98	752	696	2827	Warden Residence
07/18/22	7/18/2022 Aggie SW A	N 29° 38' 43.66" W 098° 17' 43.64"	SUNNY 100° SE 9	13:57	N/T	N/T	N/A	640	420	7404	Biersner Residence
07/18/22	7/18/2022 Aggie SW A	N 29° 38' 43.66" W 098° 17' 43.64"	SUNNY 100° SE 9	13:57	0.06	4.3	103	640	420	2376	City Property Line
07/18/22	7/18/2022 Aggie SW A	N 29° 38' 43.66" W 098° 17' 43.64"	SUNNY 100° SE 9	13:57	0.22	10.4	106	640	420	1857	Warden Prop Line
07/18/22	7/18/2022 Aggie SW A	N 29° 38' 43.66" W 098° 17' 43.64"	SUNNY 100° SE 9	13:57	0.155	6.9	106	640	420	2117	Warden Residence
07/18/22	7/18/2022 Aggie SW A	N 29° 38' 43.66" W 098° 17' 43.64"	SUNNY 100° SE 9	13:57	0.038	3.8	108	640	420	3218	Michels Residence
07/21/22	7/21/2022 Base Pit N. A	N 29° 38' 31.86" W 098° 17' 11.11"	CLOUDY 88° S 11	12:29	N/T	N/T	N/A	738	393	6943	Biersner Residence
07/21/22	7/21/2022 Base Pit N. A	N 29° 38' 31.86" W 098° 17' 11.11"	CLOUDY 88° S 11	12:29	0.025	8.8	102	738	393	3905	City Property Line
07/21/22	7/21/2022 Base Pit N. A	N 29° 38' 31.86" W 098° 17' 11.11"	CLOUDY 88° S 11	12:29	0.083	8.8	111	738	393	2167	Holly Residence
07/21/22	7/21/2022 Base Pit N. A	N 29° 38' 31.86" W 098° 17' 11.11"	CLOUDY 88° S 11	12:29	0.025	10.2	83	738	393	6255	Michels Residence
07/21/22	7/21/2022 Base Pit N. A	N 29° 38' 31.86" W 098° 17' 11.11"	CLOUDY 88° S 11	12:29	0.148	12.5	109	738	393	2697	Warden Residence
07/22/22	7/22/2022 Legacy E. B	N 29° 38' 5.12" W 098° 16' 19.13"	SUNNY 93° S 18	12:19	N/T	N/T	N/A	1194	539	8449	Biersner Residence

NT = No Trigger, <0.020ips.

NT = No Trigger, <122dB

HANSON - SERVTEX QUARRY

GARDEN RIDGE, TEXAS

JULY 2022

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
07/22/22	7/22/2022 Legacy E. B	N 29° 38' 5.12" W 098° 16' 19.13"	SUNNY 93° S 18	12:19	N/T	N/T	N/A	1194	539	8525	City Property Line
07/22/22	7/22/2022 Legacy E. B	N 29° 38' 5.12" W 098° 16' 19.13"	SUNNY 93° S 18	12:19	N/T	N/T	N/A	1194	539	6004	Holly Residence
07/22/22	7/22/2022 Legacy E. B	N 29° 38' 5.12" W 098° 16' 19.13"	SUNNY 93° S 18	12:19	N/T	N/T	N/A	1194	539	11454	Michels Residence
07/22/22	7/22/2022 Legacy E. B	N 29° 38' 5.12" W 098° 16' 19.13"	SUNNY 93° S 18	12:19	0.025	12.5	104	1194	539	7346	Warden Residence
07/25/22	7/25/2022 Legacy E. A	N 29° 38' 8.20" W 098° 16' 18.43"	SUNNY 104° S 19	13:59	N/T	N/T	N/A	978	305	8638	Biersner Residence
07/25/22	7/25/2022 Legacy E. A	N 29° 38' 8.20" W 098° 16' 18.43"	SUNNY 104° S 19	13:59	N/T	N/T	N/A	978	305	6020	Holly Residence
07/25/22	7/25/2022 Legacy E. A	N 29° 38' 8.20" W 098° 16' 18.43"	SUNNY 104° S 19	13:59	N/T	N/T	N/A	978	305	11400	Michels Residence
07/25/22	7/25/2022 Legacy E. A	N 29° 38' 8.20" W 098° 16' 18.43"	SUNNY 104° S 19	13:59	N/T	N/T	N/A	978	305	8529	City Property Line
07/25/22	7/25/2022 Legacy E. A	N 29° 38' 8.20" W 098° 16' 18.43"	SUNNY 104° S 19	13:59	0.03	10.9	98	978	305	7336	Warden Residence
07/26/22	7/26/2022 Aggie NW. A	N 29° 38' 50.62" W 098° 17' 48.38"	SUNNY 97° S 17	12:27	N/T	N/T	N/A	836	796	8106	Biersner Residence
07/26/22	7/26/2022 Aggie NW. A	N 29° 38' 50.62" W 098° 17' 48.38"	SUNNY 97° S 17	12:27	0.03	7	106	836	796	2941	City Property Line
07/26/22	7/26/2022 Aggie NW. A	N 29° 38' 50.62" W 098° 17' 48.38"	SUNNY 97° S 17	12:27	0.045	7.5	95	836	796	2807	Michels Residence
07/26/22	7/26/2022 Aggie NW. A	N 29° 38' 50.62" W 098° 17' 48.38"	SUNNY 97° S 17	12:27	0.1	7.4	110	836	796	2650	Warden Prop Line
07/26/22	7/26/2022 Aggie NW. A	N 29° 38' 50.62" W 098° 17' 48.38"	SUNNY 97° S 17	12:27	0.075	7.4	109	836	796	2893	Warden Residence
07/27/22	7/27/2022 Legacy Strip A	N 29° 38' 10.79" W 098° 16' 16.21"	CLOUDY 99° N 12	13:20	N/T	N/T	N/A	1776	108	11498	Michels Residence
07/27/22	7/27/2022 Legacy Strip A	N 29° 38' 10.79" W 098° 16' 16.21"	CLOUDY 99° N 12	13:20	N/T	N/T	N/A	1776	108	6191	Holly Residence
07/27/22	7/27/2022 Legacy Strip A	N 29° 38' 10.79" W 098° 16' 16.21"	CLOUDY 99° N 12	13:20	N/T	N/T	N/A	1776	108	8683	City Property Line

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**HANSON - SERVTEX QUARRY
GARDEN RIDGE, TEXAS
JULY 2022**

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
07/27/22	7/27/2022 Legacy Strip A	N 29° 38' 10.79" W 098° 16' 16.21"	CLOUDY 99° N 12	13:20	N/T	N/T	N/A	1776	108	7479	Warden Residence
07/27/22	7/27/2022 Legacy Strip A	N 29° 38' 10.79" W 098° 16' 16.21"	CLOUDY 99° N 12	13:20	N/T	N/T	N/A	1776	108	8931	Biersner Residence
07/28/22	7/28/2022 Legacy E. B	N 29° 38' 5.24" W 098° 16' 18.26"	SUNNY 99° SE 22	15:30	N/T	N/T	N/A	1220	434	11521	Michels Residence
07/28/22	7/28/2022 Legacy E. B	N 29° 38' 5.24" W 098° 16' 18.26"	SUNNY 99° SE 22	15:30	N/T	N/T	N/A	1220	434	6077	Holly Residence
07/28/22	7/28/2022 Legacy E. B	N 29° 38' 5.24" W 098° 16' 18.26"	SUNNY 99° SE 22	15:30	N/T	N/T	N/A	1220	434	8597	City Property Line
07/28/22	7/28/2022 Legacy E. B	N 29° 38' 5.24" W 098° 16' 18.26"	SUNNY 99° SE 22	15:30	N/T	N/T	N/A	1220	434	8524	Biersner Residence
07/28/22	7/28/2022 Legacy E. B	N 29° 38' 5.24" W 098° 16' 18.26"	SUNNY 99° SE 22	15:30	0.033	14.7	106	1220	434	7417	Warden Residence
07/29/22	7/29/2022 Aggie SE. A	N 29° 38' 43.66" W 098° 17' 42.99"	CLEAR 93° SE 13	11:33	N/T	N/T	N/A	748	609	7406	Biersner Residence
07/29/22	7/29/2022 Aggie SE. A	N 29° 38' 43.66" W 098° 17' 42.99"	CLEAR 93° SE 13	11:33	0.07	5	102	748	609	2398	City Property Line
07/29/22	7/29/2022 Aggie SE. A	N 29° 38' 43.66" W 098° 17' 42.99"	CLEAR 93° SE 13	11:33	0.165	13.2	103	748	609	1845	Warden Prop Line
07/29/22	7/29/2022 Aggie SE. A	N 29° 38' 43.66" W 098° 17' 42.99"	CLEAR 93° SE 13	11:33	0.13	4.9	104	748	609	2109	Warden Residence
07/29/22	7/29/2022 Aggie SE. A	N 29° 38' 43.66" W 098° 17' 42.99"	CLEAR 93° SE 13	11:33	0.03	5.7	107	748	609	3275	Michels Residence

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VibraTechinc.com

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

Phone 512.442.6464
Fax 512.442.6552

September 7, 2022

Mr. Jerry Barucky
Garden Ridge Quarry Commission
9400 Municipal Parkway
Garden Ridge, Texas 78266

Dear Mr. Barucky,

Enclosed is the analysis for the blasting conducted during the month of August 2022 at the Hanson Aggregates Quarry in Garden Ridge, Texas. Please place this information in your 2022 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) 651-7358, or attend the Quarry Commission meeting held every other month (odd months) at 6:00 PM.

Respectfully submitted,

VIBRA-TECH, INC.

A handwritten signature in black ink, appearing to read "N. Reittinger", written over a faint circular stamp.

Nicholas Reittinger
Area Manager

cc: William Saly, Hanson – Servtex



8/08/2022 Upper W 3A
 8/01/2022 Upper W. Wall A
 8/04/2022 Aggie W. A
 Michels Res 8/11/2022 Aggie NW. B
 8/24/2022 Aggie NW. A
 8/16/2022 Aggie Southeast A
 8/30/2022 Aggie South A

8/25/2022 Base Pit NE. A

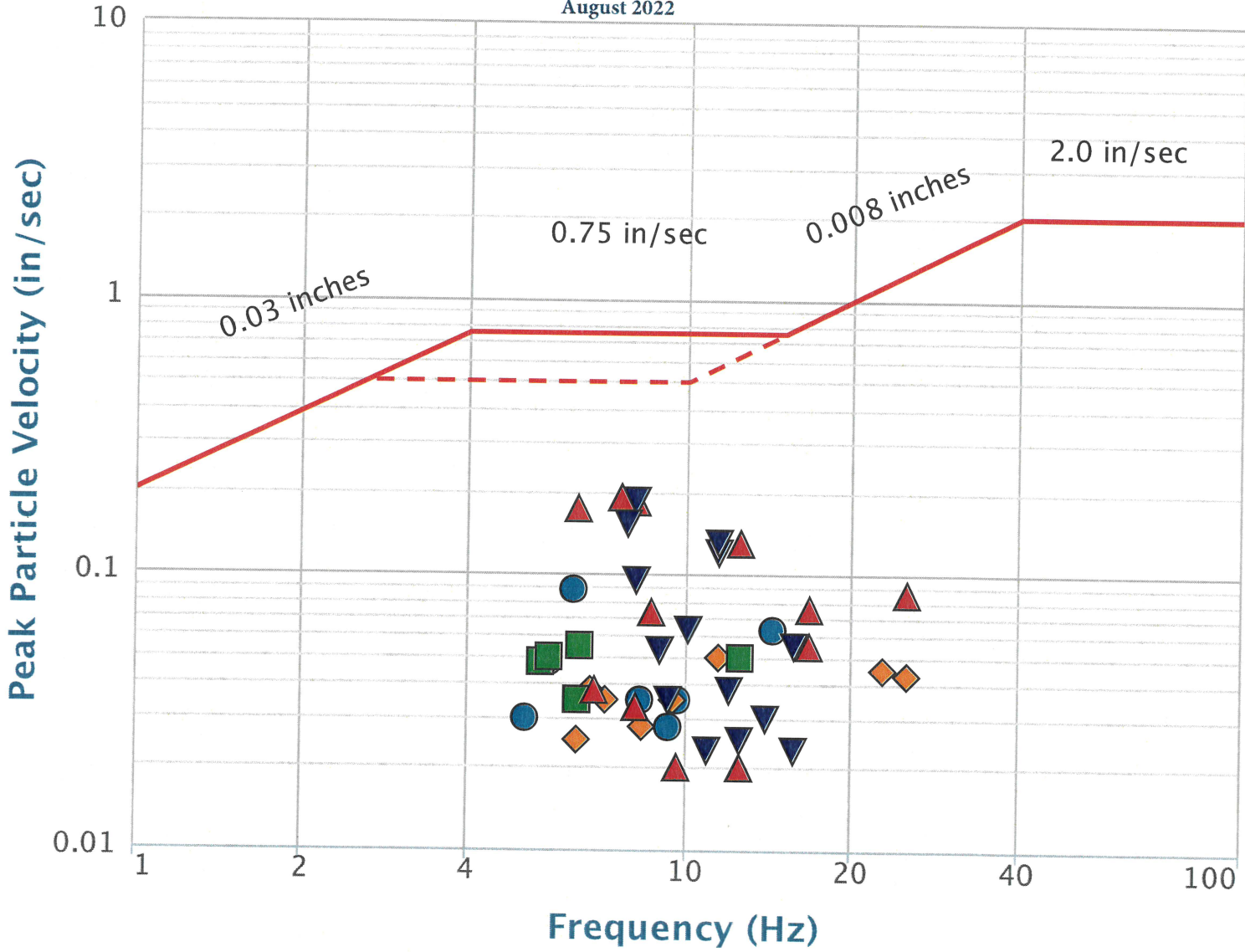
8/12/2022 Legacy A
 8/10/2022 Legacy 2 Ramp
 8/22/2022 Legacy A
 8/26/2022 Legacy 2
 8/5/2022 Legacy A
 8/3/2022 Legacy B

Google Earth

4000 ft



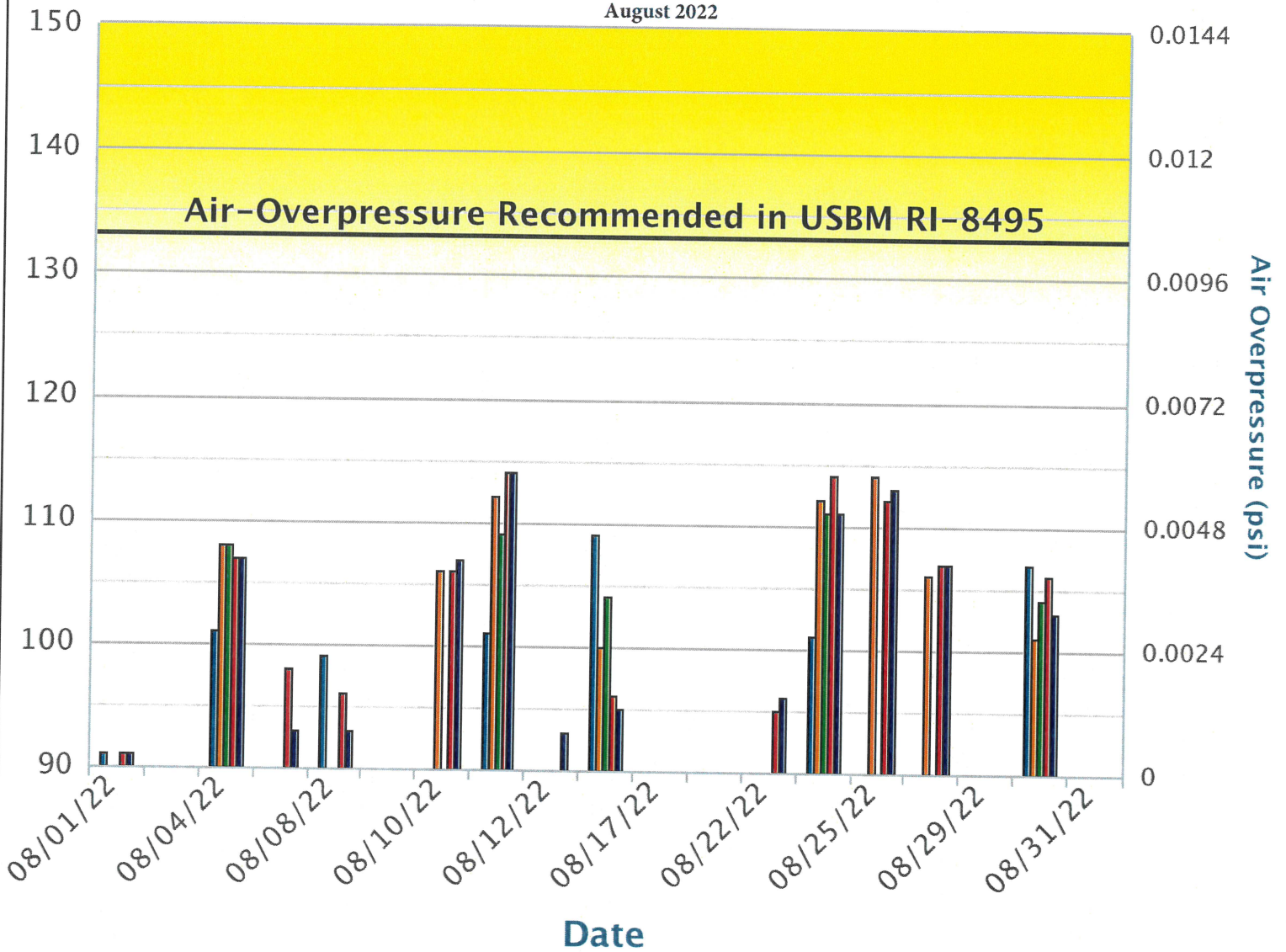
Garden Ridge Quarry Commission
Garden Ridge, Texas
USBM Graph
August 2022



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

Hanson - Servtex: Garden Ridge
 Garden Ridge, Texas
 AO Graph
 August 2022

Air-Overpressure Recommended in USBM RI-8495



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

**GARDEN RIDGE QUARRY COMMISSION
HANSON - SERVTEX QUARRY
GARDEN RIDGE, TEXAS
AUGUST 2022**

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
08/01/22	8/01/2022 Upper W. Wall A	N 29° 38' 54.51" W 098° 17' 51.80"	PARTLY CLOUDY 95° SW 8	14:20	N/T	N/T	N/A	1512	232	8511	Biersner Residence
08/01/22	8/01/2022 Upper W. Wall A	N 29° 38' 54.51" W 098° 17' 51.80"	PARTLY CLOUDY 95° SW 8	14:20	N/T	N/T	N/A	1512	232	3298	City Property Line
08/01/22	8/01/2022 Upper W. Wall A	N 29° 38' 54.51" W 098° 17' 51.80"	PARTLY CLOUDY 95° SW 8	14:20	0.035	8.2	91	1512	232	2596	Michels Residence
08/01/22	8/01/2022 Upper W. Wall A	N 29° 38' 54.51" W 098° 17' 51.80"	PARTLY CLOUDY 95° SW 8	14:20	0.038	6.8	91	1512	232	3123	Warden Prop Line
08/01/22	8/01/2022 Upper W. Wall A	N 29° 38' 54.51" W 098° 17' 51.80"	PARTLY CLOUDY 95° SW 8	14:20	0.038	11.9	91	1512	232	3356	Warden Residence
08/03/22	8/3/2022 Legacy B	N 29° 38' 5.65" W 098° 16' 17.52"	CLOUDY 100° N 17	15:07	N/T	N/T	N/A	1220	376	8601	Biersner Residence
08/03/22	8/3/2022 Legacy B	N 29° 38' 5.65" W 098° 16' 17.52"	CLOUDY 100° N 17	15:07	N/T	N/T	N/A	1220	376	8653	City Property Line
08/03/22	8/3/2022 Legacy B	N 29° 38' 5.65" W 098° 16' 17.52"	CLOUDY 100° N 17	15:07	N/T	N/T	N/A	1220	376	6135	Holly Residence
08/03/22	8/3/2022 Legacy B	N 29° 38' 5.65" W 098° 16' 17.52"	CLOUDY 100° N 17	15:07	N/T	N/T	N/A	1220	376	11567	Michels Residence
08/03/22	8/3/2022 Legacy B	N 29° 38' 5.65" W 098° 16' 17.52"	CLOUDY 100° N 17	15:07	N/T	N/T	N/A	1220	376	7471	Warden Residence
08/04/22	8/04/2022 Aggie W. A	N 29° 38' 53.79" W 098° 17' 44.23"	CLEAR 100° NW 16	14:30	N/T	N/T	N/A	680	908	8428	Biersner Residence
08/04/22	8/04/2022 Aggie W. A	N 29° 38' 53.79" W 098° 17' 44.23"	CLEAR 100° NW 16	14:30	0.035	6.3	108	680	908	3333	City Property Line
08/04/22	8/04/2022 Aggie W. A	N 29° 38' 53.79" W 098° 17' 44.23"	CLEAR 100° NW 16	14:30	0.048	5.6	101	680	908	3223	Michels Residence
08/04/22	8/04/2022 Aggie W. A	N 29° 38' 53.79" W 098° 17' 44.23"	CLEAR 100° NW 16	14:30	0.073	8.6	107	680	908	2874	Warden Prop Line
08/04/22	8/04/2022 Aggie W. A	N 29° 38' 53.79" W 098° 17' 44.23"	CLEAR 100° NW 16	14:30	0.095	8.1	107	680	908	3141	Warden Residence

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GARDEN RIDGE QUARRY COMMISSION
HANSON - SERVTEX QUARRY
GARDEN RIDGE, TEXAS
AUGUST 2022

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
08/05/22	8/5/2022 Legacy A	N 29° 38' 11.31" W 098° 16' 18.29"	CLEAR 99° N 11	13:58	N/T	N/T	N/A	1405	274	8793	Biersner Residence
08/05/22	8/5/2022 Legacy A	N 29° 38' 11.31" W 098° 16' 18.29"	CLEAR 99° N 11	13:58	N/T	N/T	N/A	1405	274	8495	City Property Line
08/05/22	8/5/2022 Legacy A	N 29° 38' 11.31" W 098° 16' 18.29"	CLEAR 99° N 11	13:58	N/T	N/T	N/A	1405	274	6004	Holly Residence
08/05/22	8/5/2022 Legacy A	N 29° 38' 11.31" W 098° 16' 18.29"	CLEAR 99° N 11	13:58	N/T	N/T	N/A	1405	274	11307	Michels Residence
08/05/22	8/5/2022 Legacy A	N 29° 38' 11.31" W 098° 16' 18.29"	CLEAR 99° N 11	13:58	0.030	13.9	93.0	1405	274	7290	Warden Residence
08/08/22	8/08/2022 Upper W 3A	N 29° 38' 58.25" W 098° 17' 51.69"	SUNNY 98° SW 21	15:56	N/T	N/T	N/A	1402	241	8889	Biersner Residence
08/08/22	8/08/2022 Upper W 3A	N 29° 38' 58.25" W 098° 17' 51.69"	SUNNY 98° SW 21	15:56	N/T	N/T	N/A	1402	241	3677	City Property Line
08/08/22	8/08/2022 Upper W 3A	N 29° 38' 58.25" W 098° 17' 51.69"	SUNNY 98° SW 21	15:56	0.03	5.1	99	1402	241	2740	Michels Residence
08/08/22	8/08/2022 Upper W 3A	N 29° 38' 58.25" W 098° 17' 51.69"	SUNNY 98° SW 21	15:56	0.033	8.1	96	1402	241	3475	Warden Prop Line
08/08/22	8/08/2022 Upper W 3A	N 29° 38' 58.25" W 098° 17' 51.69"	SUNNY 98° SW 21	15:56	0.035	9.3	93	1402	241	3716	Warden Residence
08/09/22	8/9/2022 Legacy Stripping A	N 29° 38' 8.69" W 098° 16' 13.10"	SUNNY 99° SW 16	15:14	N/T	N/T	N/A	1788	112	9083	Biersner Residence
08/09/22	8/9/2022 Legacy Stripping A	N 29° 38' 8.69" W 098° 16' 13.10"	SUNNY 99° SW 16	15:14	N/T	N/T	N/A	1788	112	8984	City Property Line
08/09/22	8/9/2022 Legacy Stripping A	N 29° 38' 8.69" W 098° 16' 13.10"	SUNNY 99° SW 16	15:14	N/T	N/T	N/A	1788	112	6482	Holly Residence
08/09/22	8/9/2022 Legacy Stripping A	N 29° 38' 8.69" W 098° 16' 13.10"	SUNNY 99° SW 16	15:14	N/T	N/T	N/A	1788	112	11826	Michels Residence
08/09/22	8/9/2022 Legacy Stripping A	N 29° 38' 8.69" W 098° 16' 13.10"	SUNNY 99° SW 16	15:14	N/T	N/T	N/A	1788	112	7786	Warden Residence

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GARDEN RIDGE, TEXAS
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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
08/10/22	8/10/2022 Legacy 2 Ramp	N 29° 38' 5.05" W 098° 16' 28.18"	CLEAR 94° N 5	12:29	N/T	N/T	N/A	1216	636	7728	Biersner Residence
08/10/22	8/10/2022 Legacy 2 Ramp	N 29° 38' 5.05" W 098° 16' 28.18"	CLEAR 94° N 5	12:29	N/T	N/T	N/A	1216	636	7748	City Property Line
08/10/22	8/10/2022 Legacy 2 Ramp	N 29° 38' 5.05" W 098° 16' 28.18"	CLEAR 94° N 5	12:29	0.045	22.7	106.0	1216	636	5221	Holly Residence
08/10/22	8/10/2022 Legacy 2 Ramp	N 29° 38' 5.05" W 098° 16' 28.18"	CLEAR 94° N 5	12:29	N/T	N/T	N/A	1216	636	10721	Michels Residence
08/10/22	8/10/2022 Legacy 2 Ramp	N 29° 38' 5.05" W 098° 16' 28.18"	CLEAR 94° N 5	12:29	0.055	15.6	107.0	1216	636	6579	Warden Residence
08/11/22	8/11/2022 Aggie NW. B	N 29° 38' 50.14" W 098° 17' 49.64"	PARTLY CLOUDY 101° SE 5	11:38	N/T	N/T	N/A	696	693	8061	Biersner Residence
08/11/22	8/11/2022 Aggie NW. B	N 29° 38' 50.14" W 098° 17' 49.64"	PARTLY CLOUDY 101° SE 5	11:38	0.050	12.5	109.0	696	693	2876	City Property Line
08/11/22	8/11/2022 Aggie NW. B	N 29° 38' 50.14" W 098° 17' 49.64"	PARTLY CLOUDY 101° SE 5	11:38	0.063	14.3	101.0	696	693	2691	Michels Residence
08/11/22	8/11/2022 Aggie NW. B	N 29° 38' 50.14" W 098° 17' 49.64"	PARTLY CLOUDY 101° SE 5	11:38	0.130	12.5	114.0	696	693	2642	Warden Prop Line
08/11/22	8/11/2022 Aggie NW. B	N 29° 38' 50.14" W 098° 17' 49.64"	PARTLY CLOUDY 101° SE 5	11:38	0.120	11.4	114.0	696	693	2877	Warden Residence
08/12/22	8/12/2022 Legacy A	N 29° 38' 8.51" W 098° 16' 17.81"	PARTLY CLOUDY 96° N 11	12:55	N/T	N/T	N/A	1470	322	8701	Biersner Residence
08/12/22	8/12/2022 Legacy A	N 29° 38' 8.51" W 098° 16' 17.81"	PARTLY CLOUDY 96° N 11	12:55	N/T	N/T	N/A	1470	322	8577	City Property Line
08/12/22	8/12/2022 Legacy A	N 29° 38' 8.51" W 098° 16' 17.81"	PARTLY CLOUDY 96° N 11	12:55	N/T	N/T	N/A	1470	322	6071	Holly Residence
08/12/22	8/12/2022 Legacy A	N 29° 38' 8.51" W 098° 16' 17.81"	PARTLY CLOUDY 96° N 11	12:55	N/T	N/T	N/A	1470	322	11441	Michels Residence
08/12/22	8/12/2022 Legacy A	N 29° 38' 8.51" W 098° 16' 17.81"	PARTLY CLOUDY 96° N 11	12:55	0.023	10.9	93.0	1470	322	7383	Warden Residence

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**GARDEN RIDGE QUARRY COMMISSION
HANSON - SERVTEX QUARRY
GARDEN RIDGE, TEXAS
AUGUST 2022**

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
08/16/22	8/16/2022 Aggie Southeast A	N 29° 38' 43.48" W 098° 17' 42.65"	PARTLY CLOUDY 87° S 7	12:05	N/T	N/T	N/A	568	394	7393	Biersner Residence
08/16/22	8/16/2022 Aggie Southeast A	N 29° 38' 43.48" W 098° 17' 42.65"	PARTLY CLOUDY 87° S 7	12:05	0.055	6.4	104.0	568	394	2395	City Property Line
08/16/22	8/16/2022 Aggie Southeast A	N 29° 38' 43.48" W 098° 17' 42.65"	PARTLY CLOUDY 87° S 7	12:05	0.028	9.3	109.0	568	394	3309	Michels Residence
08/16/22	8/16/2022 Aggie Southeast A	N 29° 38' 43.48" W 098° 17' 42.65"	PARTLY CLOUDY 87° S 7	12:05	0.183	8.1	96.0	568	394	1822	Warden Prop Line
08/16/22	8/16/2022 Aggie Southeast A	N 29° 38' 43.48" W 098° 17' 42.65"	PARTLY CLOUDY 87° S 7	12:05	0.185	8.1	95.0	568	394	2088	Warden Residence
08/17/22	8/17/2022 Legacy Stripping A	N 29° 38' 8.83" W 098° 16' 13.96"	SUNNY 97° S 12	13:42	N/T	N/T	N/A	1776	178	9020	Biersner Residence
08/17/22	8/17/2022 Legacy Stripping A	N 29° 38' 8.83" W 098° 16' 13.96"	SUNNY 97° S 12	13:42	N/T	N/T	N/A	1776	178	8907	City Property Line
08/17/22	8/17/2022 Legacy Stripping A	N 29° 38' 8.83" W 098° 16' 13.96"	SUNNY 97° S 12	13:42	N/T	N/T	N/A	1776	178	6405	Holly Residence
08/17/22	8/17/2022 Legacy Stripping A	N 29° 38' 8.83" W 098° 16' 13.96"	SUNNY 97° S 12	13:42	N/T	N/T	N/A	1776	178	11749	Michels Residence
08/17/22	8/17/2022 Legacy Stripping A	N 29° 38' 8.83" W 098° 16' 13.96"	SUNNY 97° S 12	13:42	N/T	N/T	N/A	1776	178	7709	Warden Residence
08/19/22	8/19/2022 Legacy Stripping B	N 29° 38' 5.10" W 098° 16' 15.43"	PARTLY CLOUDY 95° SW 9	13:59	N/T	N/T	N/A	2078	72	8746	Biersner Residence
08/19/22	8/19/2022 Legacy Stripping B	N 29° 38' 5.10" W 098° 16' 15.43"	PARTLY CLOUDY 95° SW 9	13:59	N/T	N/T	N/A	2078	72	8845	City Property Line
08/19/22	8/19/2022 Legacy Stripping B	N 29° 38' 5.10" W 098° 16' 15.43"	PARTLY CLOUDY 95° SW 9	13:59	N/T	N/T	N/A	2078	72	6325	Holly Residence
08/19/22	8/19/2022 Legacy Stripping B	N 29° 38' 5.10" W 098° 16' 15.43"	PARTLY CLOUDY 95° SW 9	13:59	N/T	N/T	N/A	2078	72	11758	Michels Residence
08/19/22	8/19/2022 Legacy Stripping B	N 29° 38' 5.10" W 098° 16' 15.43"	PARTLY CLOUDY 95° SW 9	13:59	N/T	N/T	N/A	2078	72	7662	Warden Residence

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

**GARDEN RIDGE QUARRY COMMISSION
HANSON - SERVTEX QUARRY
GARDEN RIDGE, TEXAS
AUGUST 2022**

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
08/22/22	8/22/2022 Legacy A	N 29° 38' 8.74" W 098° 16' 16.84"	PARTLY CLOUDY 93° SW 13	13:09	N/T	N/T	N/A	744	801	8,793	Biersner Residence
08/22/22	8/22/2022 Legacy A	N 29° 38' 8.74" W 098° 16' 16.84"	PARTLY CLOUDY 93° SW 13	13:09	N/T	N/T	N/A	744	801	8,663	City Property Line
08/22/22	8/22/2022 Legacy A	N 29° 38' 8.74" W 098° 16' 16.84"	PARTLY CLOUDY 93° SW 13	13:09	N/T	N/T	N/A	744	801	6,157	Holly Residence
08/22/22	8/22/2022 Legacy A	N 29° 38' 8.74" W 098° 16' 16.84"	PARTLY CLOUDY 93° SW 13	13:09	N/T	N/T	N/A	744	801	11,520	Michels Residence
08/22/22	8/22/2022 Legacy A	N 29° 38' 8.74" W 098° 16' 16.84"	PARTLY CLOUDY 93° SW 13	13:09	0.025	12.5	96.2	744	801	7,466	Warden Residence
08/24/22	8/24/2022 Aggie NW. A	N 29° 38' 51.46" W 098° 17' 47.35"	STORMY 86° W 9	12:55	N/T	N/T	N/A	936	781	8190	Biersner Residence
08/24/22	8/24/2022 Aggie NW. A	N 29° 38' 51.46" W 098° 17' 47.35"	STORMY 86° W 9	12:55	0.048	5.4	111.0	936	781	3041	City Property Line
08/24/22	8/24/2022 Aggie NW. A	N 29° 38' 51.46" W 098° 17' 47.35"	STORMY 86° W 9	12:55	0.088	6.2	101.0	936	781	2909	Michels Residence
08/24/22	8/24/2022 Aggie NW. A	N 29° 38' 51.46" W 098° 17' 47.35"	STORMY 86° W 9	12:55	0.173	6.3	114.0	936	781	2704	Warden Prop Line
08/24/22	8/24/2022 Aggie NW. A	N 29° 38' 51.46" W 098° 17' 47.35"	STORMY 86° W 9	12:55	0.153	7.8	111.0	936	781	2954	Warden Residence
08/25/22	8/25/2022 Base Pit NE. A	N 29° 38' 31.12" W 098° 17' 7.21"	PARTLY CLOUDY 86° NE 13	10:46	N/T	N/T	N/A	560	472	7,038	Biersner Residence
08/25/22	8/25/2022 Base Pit NE. A	N 29° 38' 31.12" W 098° 17' 7.21"	PARTLY CLOUDY 86° NE 13	10:46	N/T	N/T	N/A	560	472	4,221	City Property Line
08/25/22	8/25/2022 Base Pit NE. A	N 29° 38' 31.12" W 098° 17' 7.21"	PARTLY CLOUDY 86° NE 13	10:46	0.050	11.4	114.0	560	472	2,343	Holly Residence
08/25/22	8/25/2022 Base Pit NE. A	N 29° 38' 31.12" W 098° 17' 7.21"	PARTLY CLOUDY 86° NE 13	10:46	N/T	N/T	N/A	560	472	6,606	Michels Residence
08/25/22	8/25/2022 Base Pit NE. A	N 29° 38' 31.12" W 098° 17' 7.21"	PARTLY CLOUDY 86° NE 13	10:46	0.063	10.0	113.0	560	472	3,001	Warden Residence

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NT = No Trigger, <122dB

**GARDEN RIDGE QUARRY COMMISSION
HANSON - SERVTEX QUARRY
GARDEN RIDGE, TEXAS
AUGUST 2022**

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
08/26/22	08/26/2022 Legacy 2	N 29° 38' 4.69" W 098° 16' 27.18"	PARTLY CLOUDY 92° NE 6	12:31	N/T	N/T	N/A	1216	648.00	7,790	Biersner Residence
08/26/22	08/26/2022 Legacy 2	N 29° 38' 4.69" W 098° 16' 27.18"	PARTLY CLOUDY 92° NE 6	12:31	N/T	N/T	N/A	1216	648.00	7,842	City Property Line
08/26/22	08/26/2022 Legacy 2	N 29° 38' 4.69" W 098° 16' 27.18"	PARTLY CLOUDY 92° NE 6	12:31	0.043	25.0	106.0	1216	648.00	5,315	Holly Residence
08/26/22	08/26/2022 Legacy 2	N 29° 38' 4.69" W 098° 16' 27.18"	PARTLY CLOUDY 92° NE 6	12:31	N/T	N/T	N/A	1216	648.00	10,817	Michels Residence
08/26/22	08/26/2022 Legacy 2	N 29° 38' 4.69" W 098° 16' 27.18"	PARTLY CLOUDY 92° NE 6	12:31	0.053	8.9	107.0	1216	648.00	6,673	Warden Residence
08/29/22	8/29/2022 Legacy B Stripping	N 29° 38' 5.29" W 098° 16' 14.19"	PARTLY CLOUDY 106° SW 10	14:09	N/T	N/T	N/A	2096	77.00	8,854	Biersner Residence
08/29/22	8/29/2022 Legacy B Stripping	N 29° 38' 5.29" W 098° 16' 14.19"	PARTLY CLOUDY 106° SW 10	14:09	N/T	N/T	N/A	2096	77.00	8,948	City Property Line
08/29/22	8/29/2022 Legacy B Stripping	N 29° 38' 5.29" W 098° 16' 14.19"	PARTLY CLOUDY 106° SW 10	14:09	N/T	N/T	N/A	2096	77.00	6,430	Holly Residence
08/29/22	8/29/2022 Legacy B Stripping	N 29° 38' 5.29" W 098° 16' 14.19"	PARTLY CLOUDY 106° SW 10	14:09	N/T	N/T	N/A	2096	77.00	11,853	Michels Residence
08/29/22	8/29/2022 Legacy B Stripping	N 29° 38' 5.29" W 098° 16' 14.19"	PARTLY CLOUDY 106° SW 10	14:09	N/T	N/T	N/A	2096	77.00	7,764	Warden Residence
08/30/22	8/30/2022 Aggie South A	N 29° 38' 43.36" W 098° 17' 42.12"	CLEAR 80° NW 5	11:46	N/T	N/T	N/A	712	664.00	7,379	Biersner Residence
08/30/22	8/30/2022 Aggie South A	N 29° 38' 43.36" W 098° 17' 42.12"	CLEAR 80° NW 5	11:46	0.050	5.6	104.0	712	664.00	2,403	City Property Line
08/30/22	8/30/2022 Aggie South A	N 29° 38' 43.36" W 098° 17' 42.12"	CLEAR 80° NW 5	11:46	0.035	9.6	107.0	712	664.00	3,355	Michels Residence
08/30/22	8/30/2022 Aggie South A	N 29° 38' 43.36" W 098° 17' 42.12"	CLEAR 80° NW 5	11:46	0.190	7.6	106.0	712	664.00	1,801	Warden Prop Line
08/30/22	8/30/2022 Aggie South A	N 29° 38' 43.36" W 098° 17' 42.12"	CLEAR 80° NW 5	11:46	0.130	11.4	103.0	712	664.00	2,071	Warden Residence

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

**GARDEN RIDGE QUARRY COMMISSION
HANSON - SERVTEX QUARRY
GARDEN RIDGE, TEXAS
AUGUST 2022**

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
08/31/22	8/31/2022 Legacy B	N 29° 38' 5.94" W 098° 16' 15.73"	CLOUDY 85° W 8	13:40	N/T	N/T	N/A	960	3014.00	8,756	Biersner Residence
08/31/22	8/31/2022 Legacy B	N 29° 38' 5.94" W 098° 16' 15.73"	CLOUDY 85° W 8	13:40	N/T	N/T	N/A	960	3014.00	8,803	City Property Line
08/31/22	8/31/2022 Legacy B	N 29° 38' 5.94" W 098° 16' 15.73"	CLOUDY 85° W 8	13:40	N/T	N/T	N/A	960	3014.00	6,286	Holly Residence
08/31/22	8/31/2022 Legacy B	N 29° 38' 5.94" W 098° 16' 15.73"	CLOUDY 85° W 8	13:40	N/T	N/T	N/A	960	3014.00	11,703	Michels Residence
08/31/22	8/31/2022 Legacy B	N 29° 38' 5.94" W 098° 16' 15.73"	CLOUDY 85° W 8	13:40	0.023	15.6	90.0	960	3014.00	7,617	Warden Residence

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

#	Month	Blast Date	Blast time	Date Received	Name	Address	Phone #	Rating	# stories	sq footage	Request contact	Misc	Date sent to VibraTech
2022-6Q	July	7/14/2022	12:59pm	7/14/2022	Valinda McAlister-Bacon	21260 Forest Waters Circle	210-422-2880	4	2	4400	Yes	Longer and shock the entire house-both floors	7/14/2022
2022-7Q	August	Jul-22	Jul-22	8/9/2022	Amy French	21450 Fairview Circle	210-392-4935	5	1	2800	Yes	There was a large blast between July 1 and July 19. There were also several small blasts on a regular basis. The swimming pool and surrounding structure at this residence have been structurally damaged during this time frame and are now in need of repair. This pool was just completely renovated in August of 2020 and there were zero issues identified during that renovation. The pool has leaked out most of the water through the structural crack and the pool tiling and rocks around the pool are cracked. We have already had a couple of companies come out and have quotes for thi8s repair.	8/9/2022
2022-8Q	August	8/16/2022	12:05pm	8/16/2022	Valinda McAlister-Bacon	21260 Forest Waters Circle	210-422-2880	4	2	4400	Yes	I am hearing cracking and beginning to see stress in the house...what was today's range?	8/16/2022
2022-9Q	August	8/24/2022	12:47pm	8/24/2022	Valinda McAlister-Bacon	21260 Forest Waters Circle	210-422-2880	4	2	4400	Yes	Shook the entire first floor hard.	8/24/2022

Print

Citizen Quarry Blast Impact Report - Submission #3492

Date Submitted: 7/14/2022

First Name

Valinda

Last Name

McAlister-Bacon

Report Date

7/14/2022



Phone Number:

210-422-2880

E-Mail Address

[REDACTED]

Address1

21260 Forest Waters Circle

Blast Date/Time:

7/14/2022/12f:59pm

Please describe the event.

Longer and shook the entire house-both floors

How did this blast compare to other blasts?

Stronger

Longer

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?

Lunch

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

South

What is the approximate square footage of your home?

4400

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

2

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

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 City Council Chambers in City Hall.

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

Print

Citizen Quarry Blast Impact Report - Submission #3525

Date Submitted: 8/9/2022

First Name

Amy

Last Name

French

Report Date

8/9/2022



Phone Number:

2103924935

E-Mail Address

[REDACTED]

Address1

21450 Fairview Circle

Blast Date/Time:

July 2022

Please describe the event.

There was a large blast between July 1 and July 19. There were also several small blasts on a regular basis. The swimming pool and surrounding structure at this residence have been structurally damaged during this time frame and are now in need of repair. This pool was just completely renovated in August of 2020 and there were zero issues identified during that renovation. The pool has leaked out most of the water through the structural crack and the pool tiling and rocks around the pool are cracked. We have already had a couple of companies come out and have quotes for thi8s repair.

How did this blast compare to other blasts?

This one was particulary strtrong.

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?

At home

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

I think east

What is the approximate square footage of your home?

2800

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?*

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 City Council Chambers in City Hall.

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

Print

Citizen Quarry Blast Impact Report - Submission #3531

Date Submitted: 8/16/2022

First Name

Valinda

Last Name

McAlister-Bacon

Report Date

8/16/2022



Phone Number:

210-422-2880

E-Mail Address

[REDACTED]

Address1

21260 Forest Waters Circle

Blast Date/Time:

08/16/2022/12:05pm

Please describe the event.

I am hearing cracking and beginning to see stress in the house....what was today's range?

How did this blast compare to other blasts?

Longer

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?

Lunch

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

North

What is the approximate square footage of your home?

4400

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

2

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

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 City Council Chambers in City Hall.

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

Print

Citizen Quarry Blast Impact Report - Submission #3549

Date Submitted: 8/24/2022

First Name

Valinda

Last Name

McAlister

Report Date

8/24/2022



Phone Number:

2104222880

E-Mail Address

[REDACTED]

Address1

21260 Forest Waters Circle

Blast Date/Time:

8/24/2022/12:47

Please describe the event.

Shook the entire first floor hard.

How did this blast compare to other blasts?

Much longer/harder.

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?

computer

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

s

What is the approximate square footage of your home?

4400

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

2

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

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 City Council Chambers in City Hall.

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

Blasting Effects Measured and Ordinance 34 Limits and Ranges of Concern

Air Overpressure or Air Blast (dB): the airborne shock wave generated by an explosion. As this air wave, measured in decibels (dBL) contacts structures, it causes walls to vibrate.

134 dB ordinance limit; 120 -124 dB some concern; 125 dB or above greater concern and possible impact reports from residents

Peak Particle Velocity (PPV): The measure of the intensity of ground vibration, specifically the velocity of motion of the ground particles as they are excited by the wave energy.

Variable limit depending on associated frequency; 3.0 -3.5 PPV some concern; above 3.5 PPV greater concern and possible impact reports from residents

Frequency: Refers to how many waves occur within a second; lower frequencies equate to larger waves occurring fewer times per second and may be related to greater vibration effects at any PPV level.

Yearly Blast Data Comparisons 2016 - 2022							
	2016	2017	2018	2019	2020	2021	2022 (6 mo.)
Total Number of Blasts	145	140	191	151	140	116	87 (12 mo 174)
Ground Vibration (PPV)							
blasts with high PPV above 3.5	2	3	0	1	0	0	(0)
blasts with high PPV between 3.0 & 3.5	1	4	3	0	0	0	(0)
blasts with high PPV above 2.0	27	24	9	6	5	6	2 (4)
% blasts with PPV reading above 2.0	18.60%	17.13%	4.70%	4.00%	3.60%	5.20%	2.30%
Air Overpressure (dB)							
blasts with dB reading 125 or above	0	1	2	0	0	0	1 (2)
blasts with dB reading between 120 & 124	1	4	2	0	2	0	0 (0)
blasts with dB reading above 115	10	35	45	9	6	5	5 (10)
% of blasts with dB reading above 115	6.90%	25.00%	23.60%	5.96%	4.30%	4.30%	5.70%

Monthly Blast Report Data: Yearly Summaries 2 2016-2022

Month	# blasts	highest PPV	>.200	highest air dB	>115	Citizen reports
2020						
Dec	11	0.218	1	115	0	6
Nov	9	0.248	1	112	0	9 (1D)
Oct	10	0.175	0	114	0	9
Sept	12	0.17	0	118	1	1
Aug	11	0.148	0	119	1	D)
July	10	0.175	1	120	1	14 (7D)
June	11	0.173	0	120	1	3 (2D)
May	13	0.185	0	113	0	10 (5D)
April	16	0.2	1	112	0	12 (11D)
March	15	0.215	1	116	2	3(3D)
February	11	0.145	0	111	0	0
January	11	0.078	0	114	0	0
2020 Totals	140		5		6	76 (30D)
			3.60%		4.30%	

Monthly Blast Report Data: Yearly Summaries 2 2016-2022

Month	# blasts	highest PPV	>.200	highest air dB	>115	Citizen reports	
2016							
Dec	11	0.258	3	119	1	0	
Nov	12	0.298	3	118	2	4	
Oct	16	0.288	3	116	1	2	
Sept	11	0.325	3	117	1	1	
Aug	12	0.395	1	116	1	6	
July	10	0.232	2	118.4	1	2	
June	11	0.227	2	117	2	2	
May	11	0.365	2	113.5	0	2	
April	12	0.265	3	113.3	0	4	
March	12	0.245	2	121.9	1	4	
February	15	0.22	2	113.7	0	5	
January	12	0.21	1	113.3	0	4	
2016 Totals	145		27		10	36	
			18.60%		6.90%		

RESOLUTION NO. 489-072022

A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF GARDEN RIDGE, TEXAS, DISSOLVING THE QUARRY COMMISSION AND REPEALING RESOLUTION NO. 104-092002 THAT ESTABLISHED THE QUARRY COMMISSION.

WHEREAS, the City Council has determined that the Quarry Commission has completed its charge; and,

WHEREAS, the City Council desires to repeal Resolution No. 104-092002; and,

WHEREAS, the City Council also desires to rescind and dissolve the Quarry Commission in accordance with Section 4 of Ordinance No. 210-042022.

NOW, THEREFORE, BE IT RESOLVED BY THE CITY COUNCIL OF THE CITY OF GARDEN RIDGE, TEXAS, THAT:

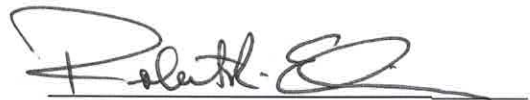
SECTION 1. The foregoing recitals are hereby found to be true and correct and are hereby adopted by the City Council and made a part hereof for all purposes and findings of fact.

SECTION 2. The Quarry Commission is hereby rescinded and dissolved effective September 30, 2022. The Quarry Commission shall thereafter wind down the Commission consistent with the requirements of Section 4 of Ordinance No. 210-042022.

SECTION 3. This resolution is cumulative of all provisions of resolutions of the City of Garden Ridge, Texas, except where the provisions of this resolution are in direct conflict with the provisions of such resolutions, in which event the conflicting provisions of such resolutions are hereby repealed. All previous versions of this resolution to the extent that they are in conflict herewith are repealed.


SECTION 4. This resolution shall be in force and effect upon its passage, and it is so resolved.

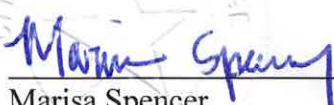
PASSED AND APPROVED ON this 13th day of July, 2022.



Robb Erickson
Mayor

ATTEST:




Marisa Spencer
City Secretary