



AGENDA
QUARRY COMMISSION REGULAR MEETING
MONDAY, JANUARY 13, 2020, 6:00 P.M.

The Garden Ridge Quarry Commission will meet in a regular session on Monday, January 13, 2020, 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 September 9, 2019, 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 currently located at the Baker residence.

4. Items applicable to the Quarry Commission discussed at the October 2, 2019, November 6, 2019, December 4, 2019, and January 2, 2020, City Council Regular Meetings.
5. Update on future education/training sessions and Grapevine articles.
6. 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. Discuss and accept the resignation of Commissioner Holloway.
 - ii. Interview possible candidates for the Quarry Commission Place 5 vacancy (term expiring September 30, 2021).
 - iii. Make recommendation to City Council for appointment of Commissioner.
 - iv. Discuss and make recommendations related to application of ordinance provisions to commission members, if needed.

c) Future Agenda Items

1. Commissioners input on agenda items.
2. Announce the date, time, and location for next meeting (March 9, 2020, 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 9:00 a.m. on January 7, 2020, 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



ADDENDUM

AGENDA

QUARRY COMMISSION REGULAR MEETING MONDAY, JANUARY 13, 2020 6:00 P.M.

**Garden Ridge City Council Chambers
9400 Municipal Parkway
Garden Ridge, Texas 78266**

ADDITION

5. Business Items

d) Education/Training – limited to 20 minutes

1. Discuss and make a possible recommendation related to Quarry educational materials.

This is to certify that I, Kat Balbi, posted this Addendum to the Agenda at 11:30 a.m. on January 9, 2020, 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, SEPTEMBER 9, 2019, 6:00 P.M.

Commissioners Present:

Chair Mike Shands
Vice-Chair Wayne Mudge
Commissioner Mark DuBois
Commissioner Jerry Barucky
Commissioner Johnell Holly
Commissioner Albert Haddad (arrived at 6:30 p.m.)
Councilmember Bryan Lantzy, Ex-officio

Commissioners Absent:

Commissioner Richard Holloway (Announced Absence)

City Staff Present:

Nancy Cain, City Administrator
Marisa Spencer, City Secretary
Kat Balbi, Assistant City Secretary

1. Call to Order

With a quorum of the Quarry Commissioners present, Chair Shands called the regular meeting of the Garden Ridge Quarry Commission to order at 6:00 p.m. on Monday, September 9, 2019, 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 Shands 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 August 12, 2019, Quarry Commission Special Meeting.

Motion: A motion was made by Commissioner Holly, seconded by Vice-Chair Mudge, to approve the August 12, 2019, Quarry Commission Special Meeting Minutes. The Commission voted four (4) for and none (0) opposed. The motion carried unanimously.

b) Discussions/Reports/Reviews

1. Review and discussion on the monthly Hanson Quarry blasting analysis data reported by Vibratech. 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 August blast analysis. He stated that 11 shots occurred during the month of August and none of the blasts exceeded the limits of Ordinance 34. He reported the highest PPV reading of 0.060 occurred on August 14th and August 19th at the Warden Residence and the highest Air Overpressure of 110 dB occurred on August 5th and August 14th at the Holly Residence and on August 19th 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 Reittinger, Vibra-Tech, discussed citizen blast reports received for the month of August. He reviewed the citizen concerns and relevant blasts from Armando Diaz, Steve Martin, and Nita McCarty.

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 agreed to leave the roving monitor at the Baker residence.

c) Updates/Recommendations

1. City Council Regular Meeting on September 4, 2019.

Chair Shands provided the Commission with an update on the items discussed at the City Council Regular Meeting on September 4, 2019. He stated the City Council approved the Commission's recommendation for reappointment of Commissioners as well as the request from Buckley Powder Co. for a partial exemption permit.

2. 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.

2.1. Receive recommendations and consideration of appointment of Quarry Commission Chair and Vice-Chair for a one-year term effective October 1, 2019.

Commissioner Holly stated he would serve as Chair. Commissioner Barucky stated he would serve as Vice-Chair.

Motion: A motion was made by Commissioner Barucky, seconded by Commissioner DuBois, to appoint Commissioner Holly as Quarry Commission Chair for a one-year term effective October 1, 2019. The Commission voted four (4) for and none (0) opposed. The motion carried unanimously.

Motion: A motion was made by Vice-Chair Mudge, seconded by Commissioner Holly, to appoint Commissioner Barucky as Quarry Commission Vice-Chair for a one-year term effective October 1, 2019. The Commission voted four (4) for and none (0) opposed. The motion carried unanimously.

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

The Commission discussed Commissioner Haddad's absences.

d) Future Agenda Items

1. Commissioners input for items on upcoming agendas.

None at this time.

2. Update on future education/training sessions and Grapevine articles.

The Commission requested another "question and answer" open forum be held at the next meeting.

3. Reschedule Monday, November 11, 2019, Regular Meeting.

The Commission agreed by consensus to cancel the Monday, November 11, 2019, Regular Meeting, since it falls on Veterans Day.

4. Announcement of next Quarry Commission Regular Meeting.

Chair Shands announced the next Quarry Commission Regular Meeting will be held on Monday, January 13, 2020, 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 DuBois, seconded by Commissioner Barucky, to adjourn. The Commission voted five (5) for and none (0) opposed. The motion carried unanimously. There being no further business, the Monday, September 9, 2019, Quarry Commission Regular Meeting was adjourned at 6:49 p.m. by Chair Shands.

ATTEST:

Mike Shands
Chair

Marisa Spencer
City Secretary



October 2, 2019

Mr. Mike Shands
Garden Ridge Quarry Commission
9400 Municipal Parkway
Garden Ridge, Texas 78266

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

Phone 512.442.6464
Fax 512.442.6552

Dear Mr. Shands,

Enclosed is the analysis for the blasting conducted during the month of September 2019 at the Hanson Aggregates Quarry in Garden Ridge, Texas. Please place this information in your 2019 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, Mike Shands at (210) 257-0868, or attend the Quarry Commission meeting held every other month (odd months) at 6:00 PM.

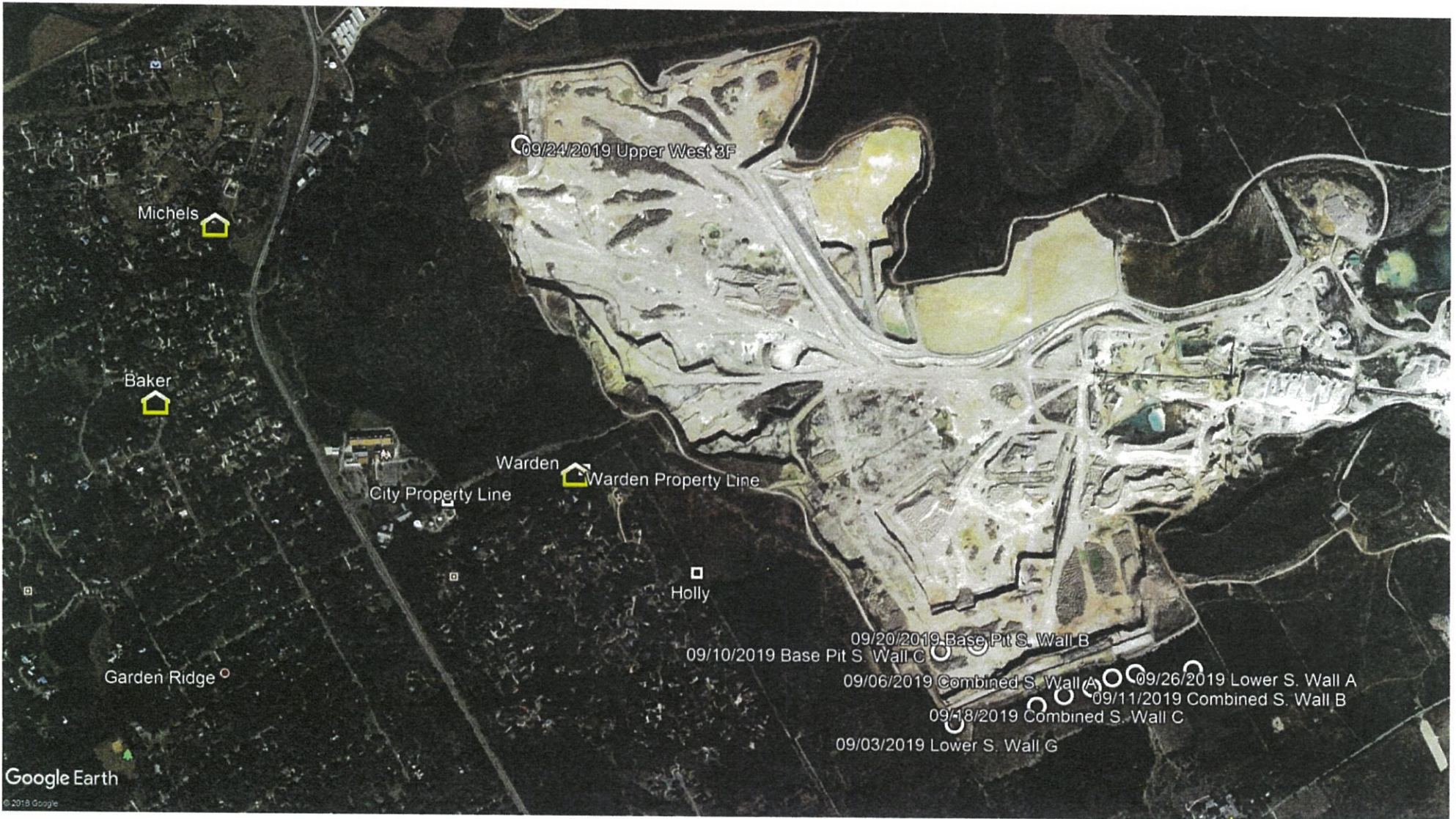
Respectfully submitted,

VIBRA-TECH, INC.



Nicholas Reitinger
Project Manager

cc: Hal Halamuda, Hanson – Servtex



09/24/2019 Upper West 3F

Michels

Baker

City Property Line

Warden Warden Property Line

Holly

Garden Ridge

09/20/2019 Base Pit S. Wall B
09/10/2019 Base Pit S. Wall C

09/06/2019 Combined S. Wall A

09/26/2019 Lower S. Wall B

09/11/2019 Combined S. Wall B

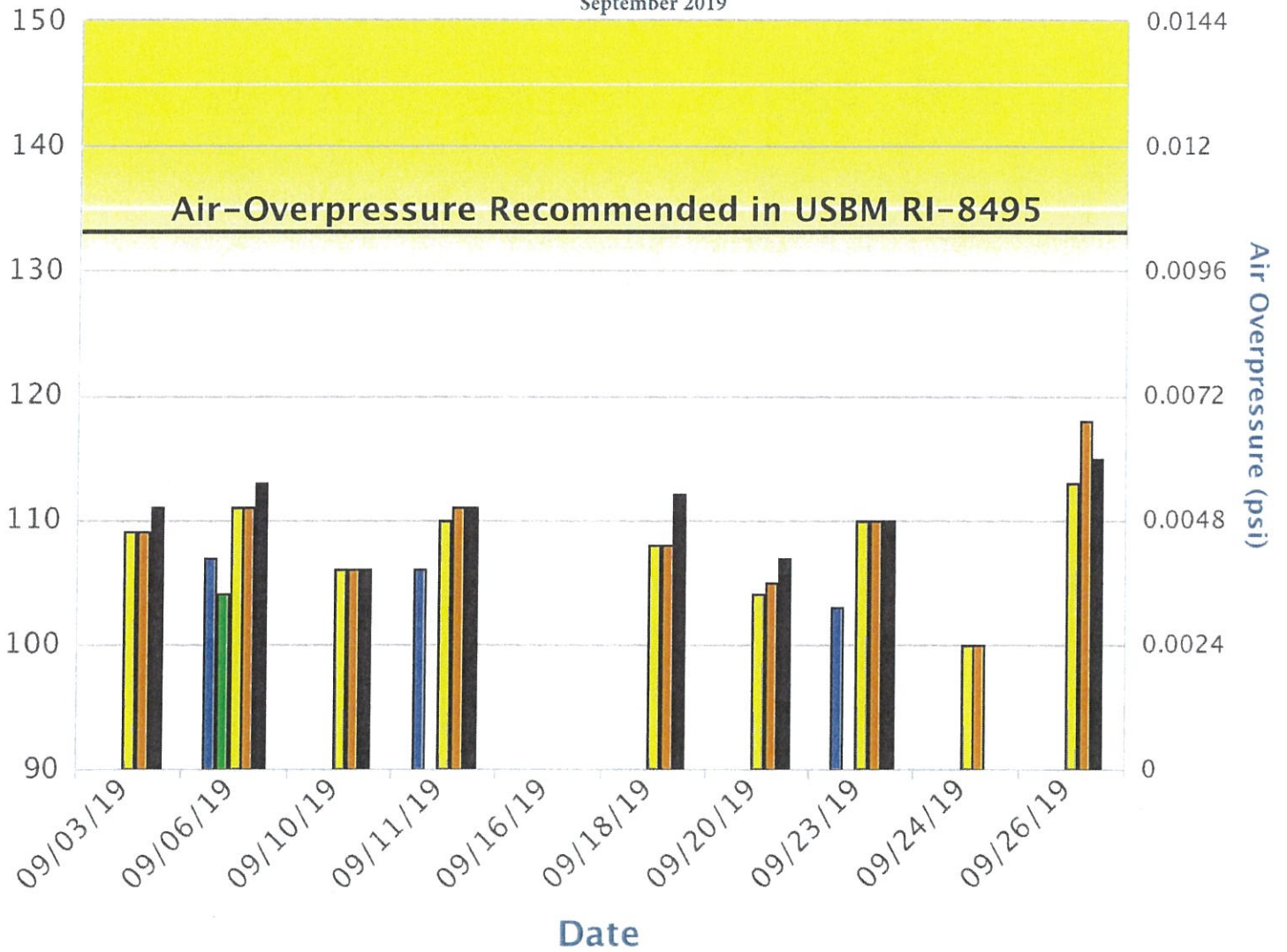
09/18/2019 Combined S. Wall C

09/03/2019 Lower S. Wall G

Google Earth

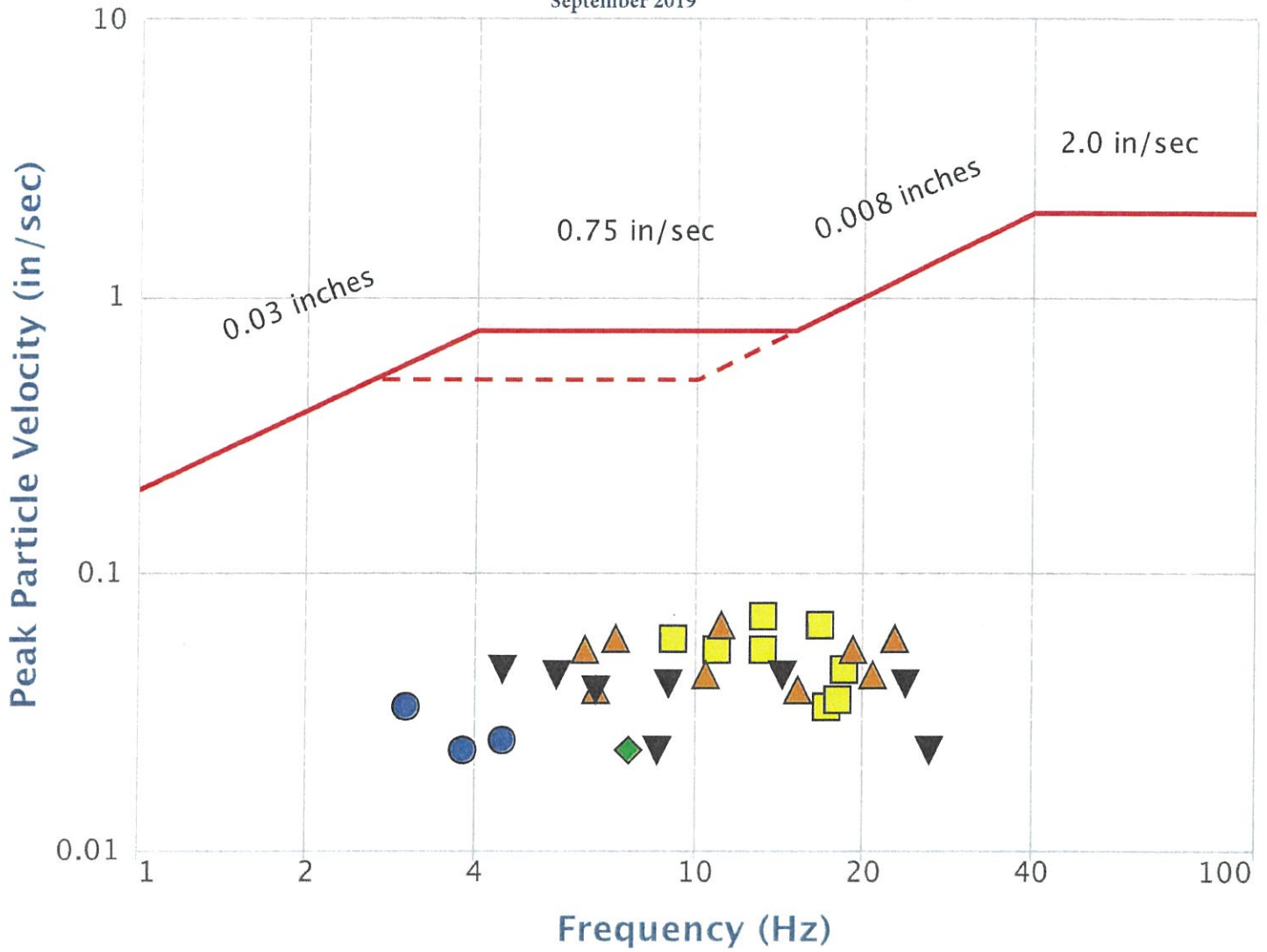
© 2018 Google

Garden Ridge Quarry Commission
 Garden Ridge, Texas
 AO Graph
 September 2019



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

Garden Ridge Quarry Commission
 Garden Ridge, Texas
 USBM Graph
 September 2019



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

**GARDEN RIDGE QUARRY COMMISSION
HANSON - SERVTEX QUARRY
GARDEN RIDGE, TEXAS
SEPTEMBER 2019**

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
09/03/19	09/03/2019 Lower S. Wall G	N 29° 38' 0.12" W 098° 16' 57.38"	SUNNY 96° NE 8	15:09	NT	NT	NT	1742	554.00	8,395	Baker Residence
09/03/19	09/03/2019 Lower S. Wall G	N 29° 38' 0.12" W 098° 16' 57.38"	SUNNY 96° NE 8	15:09	NT	NT	NT	1742	554.00	5,458	City Property Line
09/03/19	09/03/2019 Lower S. Wall G	N 29° 38' 0.12" W 098° 16' 57.38"	SUNNY 96° NE 8	15:09	0.043	14.3	111.0	1742	554.00	2,968	Holly - 9916 Trophy Oaks
09/03/19	09/03/2019 Lower S. Wall G	N 29° 38' 0.12" W 098° 16' 57.38"	SUNNY 96° NE 8	15:09	NT	NT	NT	1742	554.00	8,690	Michels - 9118 Tuscan Hills
09/03/19	09/03/2019 Lower S. Wall G	N 29° 38' 0.12" W 098° 16' 57.38"	SUNNY 96° NE 8	15:09	0.058	22.7	109.0	1742	554.00	4,412	Warden - 21375 Gunther Grove
09/06/19	09/06/2019 Combined S. Wall A	N 29° 38' 4.86" W 098° 16' 39.63"	SUNNY 91° N 1	11:46	0.023	7.6	104.0	1259	775.00	9,736	Baker Residence
09/06/19	09/06/2019 Combined S. Wall A	N 29° 38' 4.86" W 098° 16' 39.63"	SUNNY 91° N 1	11:46	0.033	3.0	107.0	1259	775.00	6,777	City Property Line
09/06/19	09/06/2019 Combined S. Wall A	N 29° 38' 4.86" W 098° 16' 39.63"	SUNNY 91° N 1	11:46	0.045	4.5	113.0	1259	775.00	4,244	Holly - 9916 Trophy Oaks
09/06/19	09/06/2019 Combined S. Wall A	N 29° 38' 4.86" W 098° 16' 39.63"	SUNNY 91° N 1	11:46	NT	NT	NT	1259	775.00	9,818	Michels - 9118 Tuscan Hills
09/06/19	09/06/2019 Combined S. Wall A	N 29° 38' 4.86" W 098° 16' 39.63"	SUNNY 91° N 1	11:46	0.065	11.1	111.0	1259	775.00	5,626	Warden - 21375 Gunther Grove
09/10/19	09/10/2019 Base Pit S. Wall C	N 29° 38' 7.32" W 098° 16' 58.92"	SUNNY 91° SE 9	12:04	NT	NT	NT	1232	690.00	8,033	Baker Residence
09/10/19	09/10/2019 Base Pit S. Wall C	N 29° 38' 7.32" W 098° 16' 58.92"	SUNNY 91° SE 9	12:04	NT	NT	NT	1232	690.00	5,074	City Property Line
09/10/19	09/10/2019 Base Pit S. Wall C	N 29° 38' 7.32" W 098° 16' 58.92"	SUNNY 91° SE 9	12:04	0.040	8.9	106.0	1232	690.00	2,541	Holly - 9916 Trophy Oaks
09/10/19	09/10/2019 Base Pit S. Wall C	N 29° 38' 7.32" W 098° 16' 58.92"	SUNNY 91° SE 9	12:04	NT	NT	NT	1232	690.00	8,195	Michels - 9118 Tuscan Hills
09/10/19	09/10/2019 Base Pit S. Wall C	N 29° 38' 7.32" W 098° 16' 58.92"	SUNNY 91° SE 9	12:04	0.043	10.4	106.0	1232	690.00	3,952	Warden - 21375 Gunther Grove

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

**GARDEN RIDGE QUARRY COMMISSION
HANSON - SERVTEX QUARRY
GARDEN RIDGE, TEXAS
SEPTEMBER 2019**

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
09/11/19	09/11/2019 Combined S. Wall	N 29° 38' 3.87" W 098° 16' 41.92"	CLOUDY 84° S 8	12:31	NT	NT	NT	1141	800.00	9,586	Baker Residence
09/11/19	09/11/2019 Combined S. Wall	N 29° 38' 3.87" W 098° 16' 41.92"	CLOUDY 84° S 8	12:31	0.025	4.5	106.0	1141	800.00	6,609	City Property Line
09/11/19	09/11/2019 Combined S. Wall	N 29° 38' 3.87" W 098° 16' 41.92"	CLOUDY 84° S 8	12:31	0.043	5.6	111.0	1141	800.00	4,075	Holly - 9916 Trophy Oaks
09/11/19	09/11/2019 Combined S. Wall	N 29° 38' 3.87" W 098° 16' 41.92"	CLOUDY 84° S 8	12:31	NT	NT	NT	1141	800.00	9,681	Michels - 9118 Tuscan Hills
09/11/19	09/11/2019 Combined S. Wall	N 29° 38' 3.87" W 098° 16' 41.92"	CLOUDY 84° S 8	12:31	0.058	7.2	111.0	1141	800.00	5,471	Warden - 21375 Gunther Grove
09/16/19	09/16/2019 Upper S. Wall A	N 29° 38' 5.70" W 098° 16' 30.50"	CLOUDY 92° E 6	12:24	NT	NT	NT	2605	79.00	10,495	Baker Residence
09/16/19	09/16/2019 Upper S. Wall A	N 29° 38' 5.70" W 098° 16' 30.50"	CLOUDY 92° E 6	12:24	NT	NT	NT	2605	79.00	7,538	City Property Line
09/16/19	09/16/2019 Upper S. Wall A	N 29° 38' 5.70" W 098° 16' 30.50"	CLOUDY 92° E 6	12:24	NT	NT	NT	2605	79.00	5,011	Holly - 9916 Trophy Oaks
09/16/19	09/16/2019 Upper S. Wall A	N 29° 38' 5.70" W 098° 16' 30.50"	CLOUDY 92° E 6	12:24	NT	NT	NT	2605	79.00	10,513	Michels - 9118 Tuscan Hills
09/16/19	09/16/2019 Upper S. Wall A	N 29° 38' 5.70" W 098° 16' 30.50"	CLOUDY 92° E 6	12:24	NT	NT	NT	2605	79.00	6,368	Warden - 21375 Gunther Grove
09/18/19	09/18/2019 Combined S. Wall C	N 29° 38' 3.08" W 098° 16' 45.08"	CLEAR 96° SE 4	15:12	NT	NT	NT	1042	910.00	9,324	Baker Residence
09/18/19	09/18/2019 Combined S. Wall C	N 29° 38' 3.08" W 098° 16' 45.08"	CLEAR 96° SE 4	15:12	NT	NT	NT	1042	910.00	6,366	City Property Line
09/18/19	09/18/2019 Combined S. Wall C	N 29° 38' 3.08" W 098° 16' 45.08"	CLEAR 96° SE 4	15:12	0.038	6.6	112.0	1042	910.00	3,833	Holly - 9916 Trophy Oaks
09/18/19	09/18/2019 Combined S. Wall C	N 29° 38' 3.08" W 098° 16' 45.08"	CLEAR 96° SE 4	15:12	NT	NT	NT	1042	910.00	9,471	Michels - 9118 Tuscan Hills
09/18/19	09/18/2019 Combined S. Wall C	N 29° 38' 3.08" W 098° 16' 45.08"	CLEAR 96° SE 4	15:12	0.038	6.6	108.0	1042	910.00	5,242	Warden - 21375 Gunther Grove

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**GARDEN RIDGE QUARRY COMMISSION
HANSON - SERVTEX QUARRY
GARDEN RIDGE, TEXAS
SEPTEMBER 2019**

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
09/20/19	09/20/2019 Base Pit S. Wall B	N 29° 38' 8.00" W 098° 16' 54.80"	SUNNY 85° SE 8	12:23	NT	NT	NT	1308	668.00	8,363	Baker Residence
09/20/19	09/20/2019 Base Pit S. Wall B	N 29° 38' 8.00" W 098° 16' 54.80"	SUNNY 85° SE 8	12:23	NT	NT	NT	1308	668.00	5,404	City Property Line
09/20/19	09/20/2019 Base Pit S. Wall B	N 29° 38' 8.00" W 098° 16' 54.80"	SUNNY 85° SE 8	12:23	0.023	26.3	107.0	1308	668.00	2,870	Holly - 9916 Trophy Oaks
09/20/19	09/20/2019 Base Pit S. Wall B	N 29° 38' 8.00" W 098° 16' 54.80"	SUNNY 85° SE 8	12:23	NT	NT	NT	1308	668.00	8,481	Michels - 9118 Tuscan Hills
09/20/19	09/20/2019 Base Pit S. Wall B	N 29° 38' 8.00" W 098° 16' 54.80"	SUNNY 85° SE 8	12:23	0.038	15.2	105.0	1308	668.00	4,261	Warden - 21375 Gunther Grove
09/23/19	09/23/2019 Combined S. Wall D	N 29° 38' 1.99" W 098° 16' 48.12"	SUNNY 83° SW 6	11:52	NT	NT	NT	684	898.00	9,101	Baker Residence
09/23/19	09/23/2019 Combined S. Wall D	N 29° 38' 1.99" W 098° 16' 48.12"	SUNNY 83° SW 6	11:52	0.023	3.8	103.0	684	898.00	6,147	City Property Line
09/23/19	09/23/2019 Combined S. Wall D	N 29° 38' 1.99" W 098° 16' 48.12"	SUNNY 83° SW 6	11:52	0.023	8.5	110.0	684	898.00	3,619	Holly - 9916 Trophy Oaks
09/23/19	09/23/2019 Combined S. Wall D	N 29° 38' 1.99" W 098° 16' 48.12"	SUNNY 83° SW 6	11:52	NT	NT	NT	684	898.00	9,289	Michels - 9118 Tuscan Hills
09/23/19	09/23/2019 Combined S. Wall D	N 29° 38' 1.99" W 098° 16' 48.12"	SUNNY 83° SW 6	11:52	NT	NT	NT	684	898.00	5,041	Warden - 21375 Gunther Grove
09/24/19	09/24/2019 Upper West 3F	N 29° 38' 56.86" W 098° 17' 46.27"	CLOUDY 89° S 7	12:50	NT	NT	NT	954	91.00	4,485	Baker Residence
09/24/19	09/24/2019 Upper West 3F	N 29° 38' 56.86" W 098° 17' 46.27"	CLOUDY 89° S 7	12:50	NT	NT	NT	954	91.00	3,598	City Property Line
09/24/19	09/24/2019 Upper West 3F	N 29° 38' 56.86" W 098° 17' 46.27"	CLOUDY 89° S 7	12:50	NT	NT	NT	954	91.00	3,134	Michels - 9118 Tuscan Hills
09/24/19	09/24/2019 Upper West 3F	N 29° 38' 56.86" W 098° 17' 46.27"	CLOUDY 89° S 7	12:50	0.053	6.3	100.0	954	91.00	3,475	Warden - 21375 Gunther Grove
09/24/19	09/24/2019 Upper West 3F	N 29° 38' 56.86" W 098° 17' 46.27"	CLOUDY 89° S 7	12:50	0.058	9.1	100.0	954	91.00	3,283	Warden Property Line

NT = No Trigger, <0.020ips.
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**GARDEN RIDGE QUARRY COMMISSION
HANSON - SERVTEX QUARRY
GARDEN RIDGE, TEXAS
SEPTEMBER 2019**

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
09/26/19	09/26/2019 Lower S. Wall A	N 29° 38' 5.30" W 098° 16' 37.00"	SUNNY 91° NE 6	13:43	NT	NT	NT	1650	654.00	9,949	Baker Residence
09/26/19	09/26/2019 Lower S. Wall A	N 29° 38' 5.30" W 098° 16' 37.00"	SUNNY 91° NE 6	13:43	NT	NT	NT	1650	654.00	6,990	City Property Line
09/26/19	09/26/2019 Lower S. Wall A	N 29° 38' 5.30" W 098° 16' 37.00"	SUNNY 91° NE 6	13:43	0.040	23.8	115.0	1650	654.00	4,459	Holly - 9916 Trophy Oaks
09/26/19	09/26/2019 Lower S. Wall A	N 29° 38' 5.30" W 098° 16' 37.00"	SUNNY 91° NE 6	13:43	NT	NT	NT	1650	654.00	10,008	Michels - 9118 Tuscan Hills
09/26/19	09/26/2019 Lower S. Wall A	N 29° 38' 5.30" W 098° 16' 37.00"	SUNNY 91° NE 6	13:43	0.053	19.2	118.0	1650	654.00	5,832	Warden - 21375 Gunther Grove

NT = No Trigger, <0.020ips.

NT = No Trigger, <122dB

November 14, 2019

Mr. Mike Shands
Garden Ridge Quarry Commission
9400 Municipal Parkway
Garden Ridge, Texas 78266

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

Phone 512.442.6464
Fax 512.442.6552

Dear Mr. Shands,

Enclosed is the analysis for the blasting conducted during the month of October 2019 at the Hanson Aggregates Quarry in Garden Ridge, Texas. Please place this information in your 2019 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, Mike Shands at (210) 257-0868, or attend the Quarry Commission meeting held every other month (odd months) at 6:00 PM.

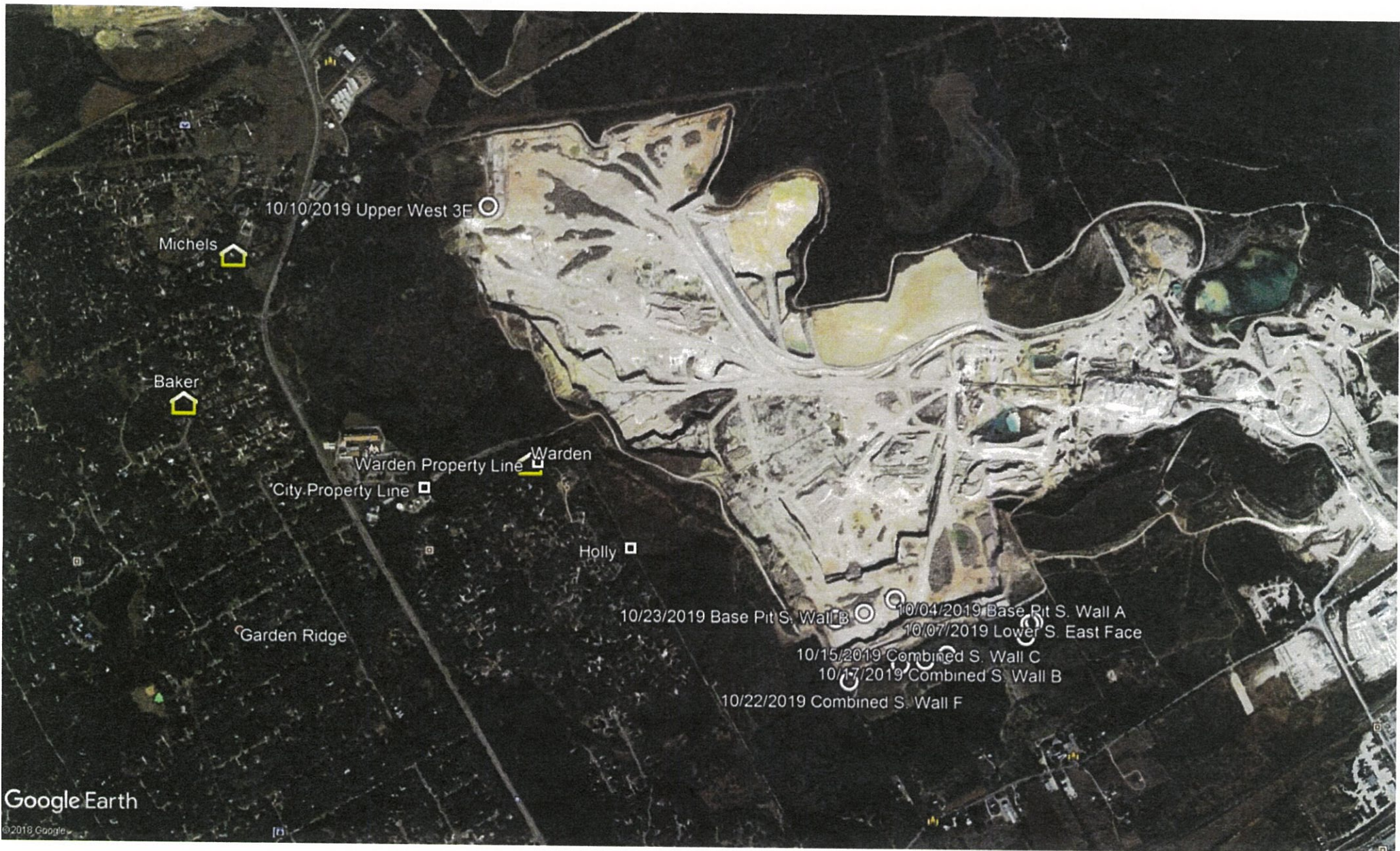
Respectfully submitted,

VIBRA-TECH, INC.



Nicholas Reitinger
Project Manager

cc: Hal Halamuda, Hanson – Servtex



10/10/2019 Upper West 3E

Michels

Baker

Warden Property Line

City Property Line

Warden

Holly

Garden Ridge

10/23/2019 Base Pit S. Wall B

10/04/2019 Base Pit S. Wall A

10/07/2019 Lower S. East Face

10/15/2019 Combined S. Wall C

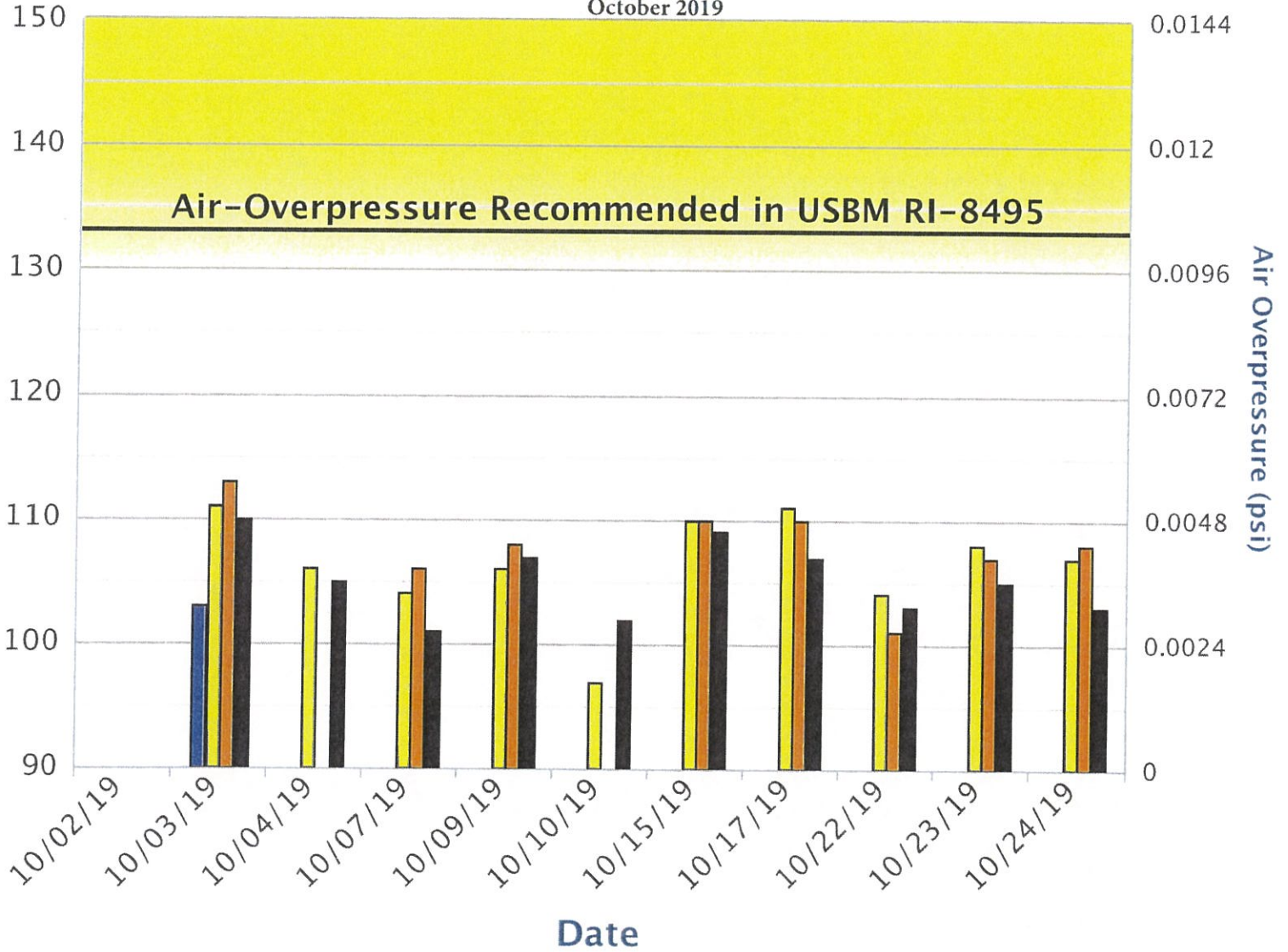
10/17/2019 Combined S. Wall B

10/22/2019 Combined S. Wall F

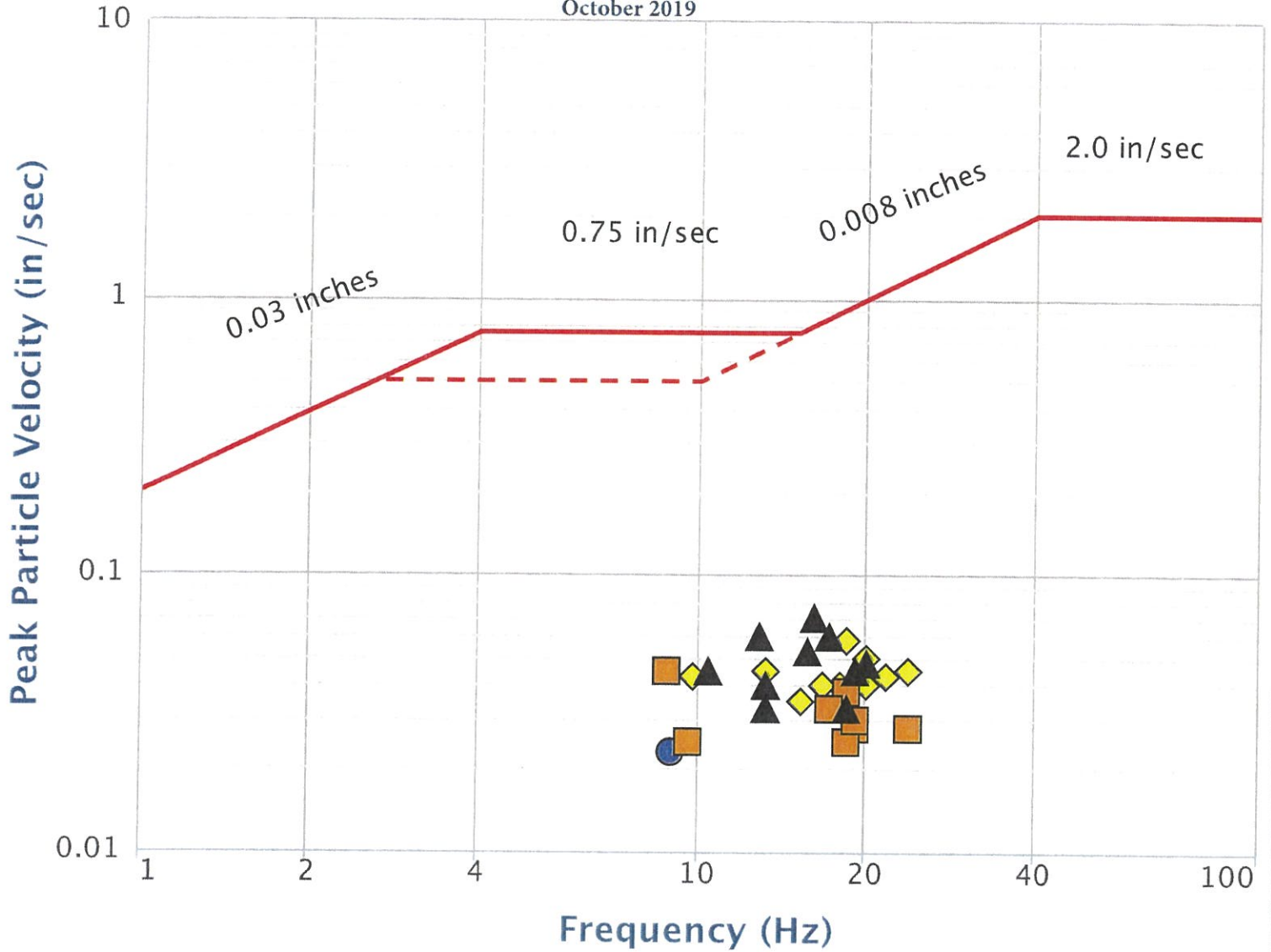
Google Earth

© 2018 Google

Garden Ridge Quarry Commission
 Garden Ridge, Texas
 AO Graph
 October 2019



Garden Ridge Quarry Commission
Garden Ridge, Texas
USBM Graph
October 2019



- Baker Residence
- ◆ Warden Residence
- Holly Residence
- ▲ Warden Prop Line

**GARDEN RIDGE QUARRY COMMISSION
HANSON - SERVTEX QUARRY
GARDEN RIDGE, TEXAS
OCTOBER 2019**

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
10/02/19	10/02/2019 Upper S. Wall B	N 29° 38' 4.87" W 098° 16' 32.66"	SUNNY 90° E 5	13:22	NT	NT	NT	2855	56.00	10,330	Baker Residence
10/02/19	10/02/2019 Upper S. Wall B	N 29° 38' 4.87" W 098° 16' 32.66"	SUNNY 90° E 5	13:22	NT	NT	NT	2855	56.00	7,372	City Property Line
10/02/19	10/02/2019 Upper S. Wall B	N 29° 38' 4.87" W 098° 16' 32.66"	SUNNY 90° E 5	13:22	NT	NT	NT	2855	56.00	4,841	Holly - 9916 Trophy Oaks
10/02/19	10/02/2019 Upper S. Wall B	N 29° 38' 4.87" W 098° 16' 32.66"	SUNNY 90° E 5	13:22	NT	NT	NT	2855	56.00	10,373	Michels - 9118 Tuscan Hills
10/02/19	10/02/2019 Upper S. Wall B	N 29° 38' 4.87" W 098° 16' 32.66"	SUNNY 90° E 5	13:22	NT	NT	NT	2855	56.00	6,209	Warden - 21375 Gunther Grove
10/03/19	10/03/2019 Combined S. Wall D	N 29° 38' 1.36" W 098° 16' 49.68"	SUNNY 94° SE 8	15:49	0.023	8.9	103.0	634	2319.00	8,991	Baker Residence
10/03/19	10/03/2019 Combined S. Wall D	N 29° 38' 1.36" W 098° 16' 49.68"	SUNNY 94° SE 8	15:49	NT	NT	NT	634	2319.00	6,039	City Property Line
10/03/19	10/03/2019 Combined S. Wall D	N 29° 38' 1.36" W 098° 16' 49.68"	SUNNY 94° SE 8	15:49	0.045	8.8	113.0	634	2319.00	3,516	Holly - 9916 Trophy Oaks
10/03/19	10/03/2019 Combined S. Wall D	N 29° 38' 1.36" W 098° 16' 49.68"	SUNNY 94° SE 8	15:49	NT	NT	NT	634	2319.00	9,202	Michels - 9118 Tuscan Hills
10/03/19	10/03/2019 Combined S. Wall D	N 29° 38' 1.36" W 098° 16' 49.68"	SUNNY 94° SE 8	15:49	0.058	18.5	111.0	634	2319.00	4,945	Warden - 21375 Gunther Grove
10/04/19	10/04/2019 Base Pit S. Wall A	N 29° 38' 9.13" W 098° 16' 50.49"	CLOUDY 83° E 6	11:53	NT	NT	NT	1232	618.00	8,702	Baker Residence
10/04/19	10/04/2019 Base Pit S. Wall A	N 29° 38' 9.13" W 098° 16' 50.49"	CLOUDY 83° E 6	11:53	NT	NT	NT	1232	618.00	5,744	City Property Line
10/04/19	10/04/2019 Base Pit S. Wall A	N 29° 38' 9.13" W 098° 16' 50.49"	CLOUDY 83° E 6	11:53	NT	NT	NT	1232	618.00	3,216	Holly - 9916 Trophy Oaks
10/04/19	10/04/2019 Base Pit S. Wall A	N 29° 38' 9.13" W 098° 16' 50.49"	CLOUDY 83° E 6	11:53	NT	NT	NT	1232	618.00	8,768	Michels - 9118 Tuscan Hills

NT = No Trigger, <0.020ips.
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**GARDEN RIDGE QUARRY COMMISSION
HANSON - SERVTEX QUARRY
GARDEN RIDGE, TEXAS
OCTOBER 2019**

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
10/04/19	10/04/2019 Base Pit S. Wall A	N 29° 38' 9.13" W 098° 16' 50.49"	CLOUDY 83° E 6	11:53	0.035	15.2	106.0	1232	618.00	4,582	Warden - 21375 Gunther Grove
10/07/19	10/07/2019 Lower S. East Face	N 29° 38' 6.43" W 098° 16' 32.15"	SUNNY 81° N 11	13:56	NT	NT	NT	1213	563.00	10,337	Baker Residence
10/07/19	10/07/2019 Lower S. East Face	N 29° 38' 6.43" W 098° 16' 32.15"	SUNNY 81° N 11	13:56	NT	NT	NT	1213	563.00	7,380	City Property Line
10/07/19	10/07/2019 Lower S. East Face	N 29° 38' 6.43" W 098° 16' 32.15"	SUNNY 81° N 11	13:56	0.028	23.8	106.0	1213	563.00	4,854	Holly - 9916 Trophy Oaks
10/07/19	10/07/2019 Lower S. East Face	N 29° 38' 6.43" W 098° 16' 32.15"	SUNNY 81° N 11	13:56	NT	NT	NT	1213	563.00	10,351	Michels - 9118 Tuscan Hills
10/07/19	10/07/2019 Lower S. East Face	N 29° 38' 6.43" W 098° 16' 32.15"	SUNNY 81° N 11	13:56	0.050	20.0	104.0	1213	563.00	6,208	Warden - 21375 Gunther Grove
10/09/19	10/09/2019 Base Pit S. Wall C	N 29° 38' 6.75" W 098° 16' 58.56"	CLOUDY 82° S 8	13:22	NT	NT	NT	1194	777.00	8,080	Baker Residence
10/09/19	10/09/2019 Base Pit S. Wall C	N 29° 38' 6.75" W 098° 16' 58.56"	CLOUDY 82° S 8	13:22	NT	NT	NT	1194	777.00	5,122	City Property Line
10/09/19	10/09/2019 Base Pit S. Wall C	N 29° 38' 6.75" W 098° 16' 58.56"	CLOUDY 82° S 8	13:22	0.038	18.5	108.0	1194	777.00	2,589	Holly - 9916 Trophy Oaks
10/09/19	10/09/2019 Base Pit S. Wall C	N 29° 38' 6.75" W 098° 16' 58.56"	CLOUDY 82° S 8	13:22	NT	NT	NT	1194	777.00	8,252	Michels - 9118 Tuscan Hills
10/09/19	10/09/2019 Base Pit S. Wall C	N 29° 38' 6.75" W 098° 16' 58.56"	CLOUDY 82° S 8	13:22	0.043	21.7	106.0	1194	777.00	4,004	Warden - 21375 Gunther Grove
10/10/19	10/10/2019 Upper West 3E	N 29° 38' 55.11" W 098° 17' 46.09"	CLOUDY 84° S 26	11:52	NT	NT	NT	1062	82.00	4,391	Baker Residence
10/10/19	10/10/2019 Upper West 3E	N 29° 38' 55.11" W 098° 17' 46.09"	CLOUDY 84° S 26	11:52	NT	NT	NT	1062	82.00	3,427	City Property Line
10/10/19	10/10/2019 Upper West 3E	N 29° 38' 55.11" W 098° 17' 46.09"	CLOUDY 84° S 26	11:52	NT	NT	NT	1062	82.00	3,097	Michels - 9118 Tuscan Hills
10/10/19	10/10/2019 Upper West 3E	N 29° 38' 55.11" W 098° 17' 46.09"	CLOUDY 84° S 26	11:52	0.043	9.8	97.0	1062	82.00	3,298	Warden - 21375 Gunther Grove

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**GARDEN RIDGE QUARRY COMMISSION
HANSON - SERVTEX QUARRY
GARDEN RIDGE, TEXAS
OCTOBER 2019**

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
10/10/19	10/10/2019 Upper West 3E	N 29° 38' 55.11" W 098° 17' 46.09"	CLOUDY 84° S 26	11:52	0.045	10.4	102.0	1062	82.00	3,106	Warden Property Line
10/15/19	10/15/2019 Combined S. Wall C	N 29° 38' 1.86" W 098° 16' 46.36"	CLOUDY 82° S 8	11:15	NT	NT	NT	1156	882.00	9,253	Baker Residence
10/15/19	10/15/2019 Combined S. Wall C	N 29° 38' 1.86" W 098° 16' 46.36"	CLOUDY 82° S 8	11:15	NT	NT	NT	1156	882.00	6,298	City Property Line
10/15/19	10/15/2019 Combined S. Wall C	N 29° 38' 1.86" W 098° 16' 46.36"	CLOUDY 82° S 8	11:15	0.033	17.2	110.0	1156	882.00	3,769	Holly - 9916 Trophy Oaks
10/15/19	10/15/2019 Combined S. Wall C	N 29° 38' 1.86" W 098° 16' 46.36"	CLOUDY 82° S 8	11:15	NT	NT	NT	1156	882.00	9,431	Michels - 9118 Tuscan Hills
10/15/19	10/15/2019 Combined S. Wall C	N 29° 38' 1.86" W 098° 16' 46.36"	CLOUDY 82° S 8	11:15	0.040	17.9	110.0	1156	882.00	5,188	Warden - 21375 Gunther Grove
10/17/19	10/17/2019 Combined S. Wall B	N 29° 38' 2.62" W 098° 16' 43.42"	CLOUDY 67° NE 7	12:55	NT	NT	NT	1118	972.00	9,477	Baker Residence
10/17/19	10/17/2019 Combined S. Wall B	N 29° 38' 2.62" W 098° 16' 43.42"	CLOUDY 67° NE 7	12:55	NT	NT	NT	1118	972.00	6,520	City Property Line
10/17/19	10/17/2019 Combined S. Wall B	N 29° 38' 2.62" W 098° 16' 43.42"	CLOUDY 67° NE 7	12:55	0.028	19.2	110.0	1118	972.00	3,987	Holly - 9916 Trophy Oaks
10/17/19	10/17/2019 Combined S. Wall B	N 29° 38' 2.62" W 098° 16' 43.42"	CLOUDY 67° NE 7	12:55	NT	NT	NT	1118	972.00	9,622	Michels - 9118 Tuscan Hills
10/17/19	10/17/2019 Combined S. Wall B	N 29° 38' 2.62" W 098° 16' 43.42"	CLOUDY 67° NE 7	12:55	0.040	16.7	111.0	1118	972.00	5,395	Warden - 21375 Gunther Grove
10/22/19	10/22/2019 Combined S. Wall F	N 29° 37' 59.29" W 098° 16' 56.67"	SUNNY 74° NE 10	12:00	NT	NT	NT	1338	631.00	8,483	Baker Residence
10/22/19	10/22/2019 Combined S. Wall F	N 29° 37' 59.29" W 098° 16' 56.67"	SUNNY 74° NE 10	12:00	NT	NT	NT	1338	631.00	5,549	City Property Line

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**GARDEN RIDGE QUARRY COMMISSION
HANSON - SERVTEX QUARRY
GARDEN RIDGE, TEXAS
OCTOBER 2019**

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
10/22/19	10/22/2019 Combined S. Wall F	N 29° 37' 59.29" W 098° 16' 56.67"	SUNNY 74° NE 10	12:00	0.025	18.5	101.0	1338	631.00	3,065	Holly - 9916 Trophy Oaks
10/22/19	10/22/2019 Combined S. Wall F	N 29° 37' 59.29" W 098° 16' 56.67"	SUNNY 74° NE 10	12:00	NT	NT	NT	1338	631.00	8,789	Michels - 9118 Tuscan Hills
10/22/19	10/22/2019 Combined S. Wall F	N 29° 37' 59.29" W 098° 16' 56.67"	SUNNY 74° NE 10	12:00	0.045	23.8	104.0	1338	631.00	4,510	Warden - 21375 Gunther Grove
10/23/19	10/23/2019 Base Pit S. Wall B	N 29° 38' 7.47" W 098° 16' 54.69"	SUNNY 72° SE 7	12:44	NT	NT	NT	1289	736.00	8,387	Baker Residence
10/23/19	10/23/2019 Base Pit S. Wall B	N 29° 38' 7.47" W 098° 16' 54.69"	SUNNY 72° SE 7	12:44	NT	NT	NT	1289	736.00	5,428	City Property Line
10/23/19	10/23/2019 Base Pit S. Wall B	N 29° 38' 7.47" W 098° 16' 54.69"	SUNNY 72° SE 7	12:44	0.030	19.2	107.0	1289	736.00	2,894	Holly - 9916 Trophy Oaks
10/23/19	10/23/2019 Base Pit S. Wall B	N 29° 38' 7.47" W 098° 16' 54.69"	SUNNY 72° SE 7	12:44	NT	NT	NT	1289	736.00	8,515	Michels - 9118 Tuscan Hills
10/23/19	10/23/2019 Base Pit S. Wall B	N 29° 38' 7.47" W 098° 16' 54.69"	SUNNY 72° SE 7	12:44	0.040	20.0	108.0	1289	736.00	4,290	Warden - 21375 Gunther Grove
10/24/19	10/24/2019 Lower S. East Face	N 29° 38' 6.63" W 098° 16' 31.57"	CLOUDY 84° SE 7	15:24	NT	NT	NT	1194	486.00	10,382	Baker Residence
10/24/19	10/24/2019 Lower S. East Face	N 29° 38' 6.63" W 098° 16' 31.57"	CLOUDY 84° SE 7	15:24	NT	NT	NT	1194	486.00	7,426	City Property Line
10/24/19	10/24/2019 Lower S. East Face	N 29° 38' 6.63" W 098° 16' 31.57"	CLOUDY 84° SE 7	15:24	0.025	9.6	108.0	1194	486.00	4,901	Holly - 9916 Trophy Oaks
10/24/19	10/24/2019 Lower S. East Face	N 29° 38' 6.63" W 098° 16' 31.57"	CLOUDY 84° SE 7	15:24	NT	NT	NT	1194	486.00	10,389	Michels - 9118 Tuscan Hills
10/24/19	10/24/2019 Lower S. East Face	N 29° 38' 6.63" W 098° 16' 31.57"	CLOUDY 84° SE 7	15:24	0.045	13.2	107.0	1194	486.00	6,251	Warden - 21375 Gunther Grove

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

December 3, 2019

Mr. Mike Shands
Garden Ridge Quarry Commission
9400 Municipal Parkway
Garden Ridge, Texas 78266

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

Phone 512.442.6464
Fax 512.442.6552

Dear Mr. Shands,

Enclosed is the analysis for the blasting conducted during the month of November 2019 at the Hanson Aggregates Quarry in Garden Ridge, Texas. Please place this information in your 2019 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, Mike Shands at (210) 257-0868, or attend the Quarry Commission meeting held every other month (odd months) at 6:00 PM.

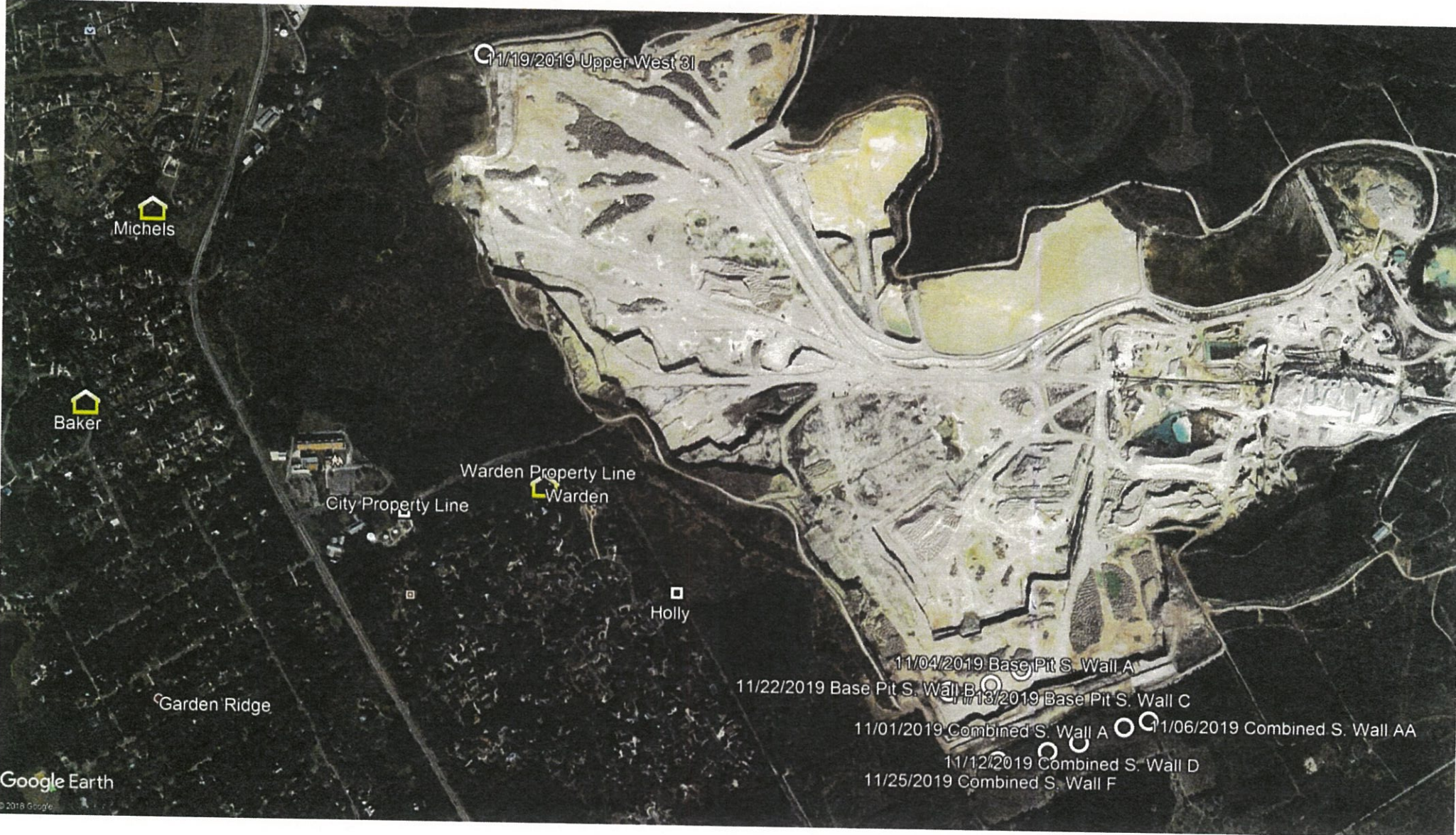
Respectfully submitted,

VIBRA-TECH, INC.

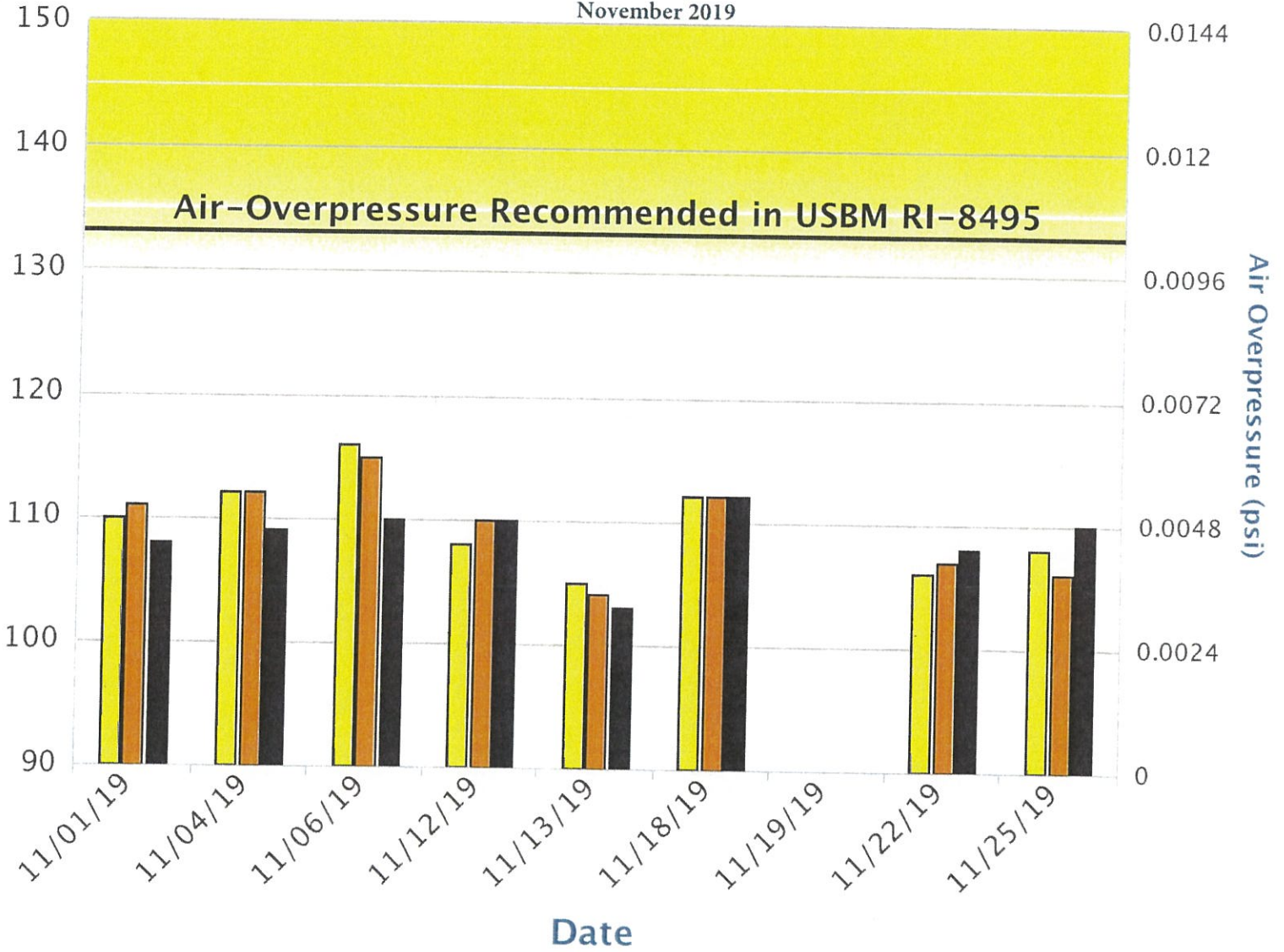


Nicholas Reitinger
Regional Manager

cc: Hal Halamuda, Hanson – Servtex

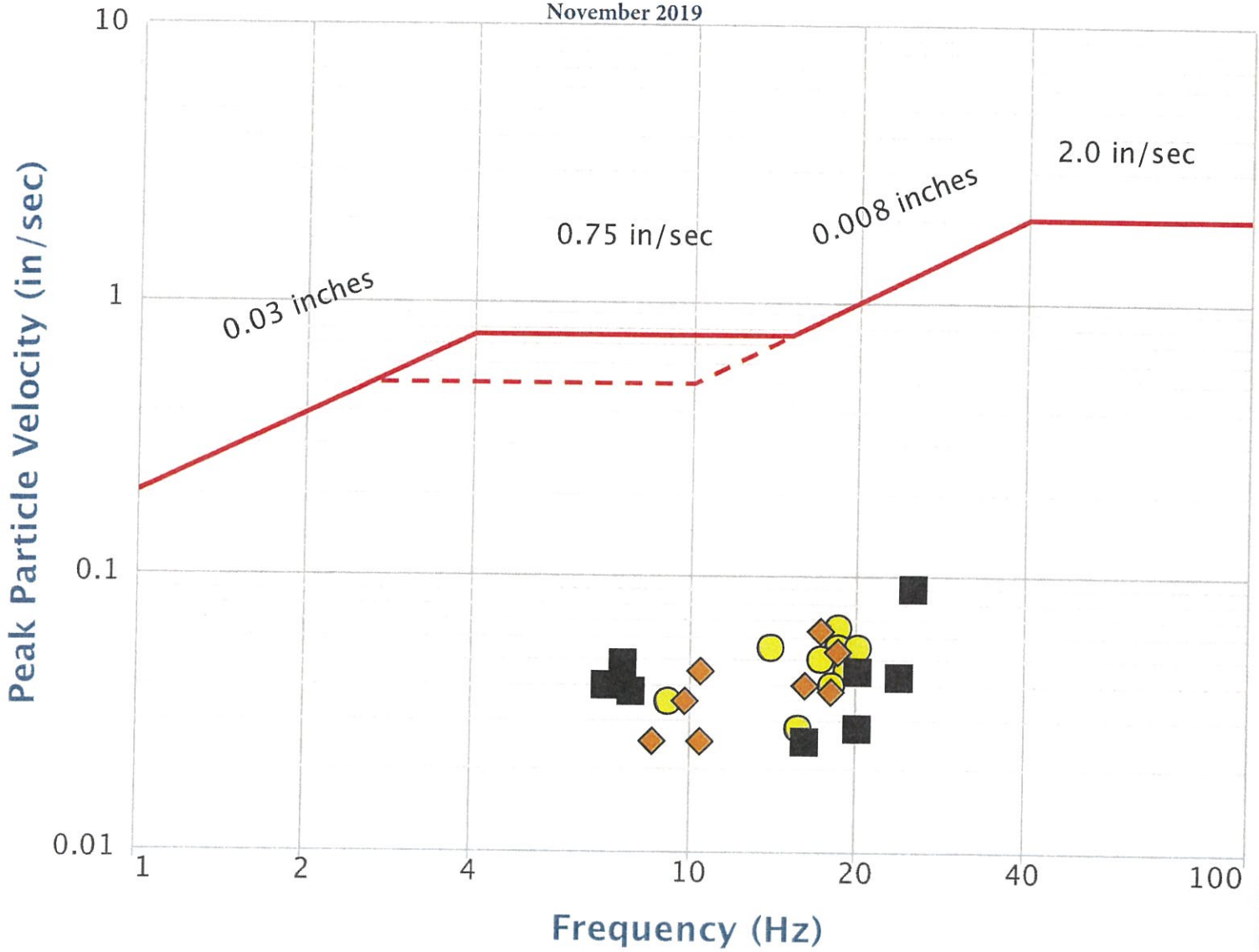


Garden Ridge Quarry Commission
 Garden Ridge, Texas
 AO Graph
 November 2019



Warden Prop Line
 Warden Residence
 Holly Residence

Garden Ridge Quarry Commission
Garden Ridge, Texas
USBM Graph
November 2019



● Warden Prop Line ◆ Warden Residence ■ Holly Residence

**GARDEN RIDGE QUARRY COMMISSION
HANSON - SERVTEX QUARRY
GARDEN RIDGE, TEXAS
NOVEMBER 2019**

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
11/01/19	11/01/2019 Combined S. Wall A	N 29° 38' 3.51" W 098° 16' 40.27"	SUNNY 49° E 5	11:32	NT	NT	NT	1212	675.00	9,718	Baker Residence
11/01/19	11/01/2019 Combined S. Wall A	N 29° 38' 3.51" W 098° 16' 40.27"	SUNNY 49° E 5	11:32	NT	NT	NT	1212	675.00	6,759	City Property Line
11/01/19	11/01/2019 Combined S. Wall A	N 29° 38' 3.51" W 098° 16' 40.27"	SUNNY 49° E 5	11:32	0.043	23.8	108.0	1212	675.00	4,225	Holly - 9916 Trophy Oaks
11/01/19	11/01/2019 Combined S. Wall A	N 29° 38' 3.51" W 098° 16' 40.27"	SUNNY 49° E 5	11:32	NT	NT	NT	1212	675.00	9,827	Michels - 9118 Tuscan Hills
11/01/19	11/01/2019 Combined S. Wall A	N 29° 38' 3.51" W 098° 16' 40.27"	SUNNY 49° E 5	11:32	0.038	17.9	111.0	1212	675.00	5,620	Warden - 21375 Gunther Grove
11/04/19	11/04/2019 Base Pit S. Wall A	N 29° 38' 8.46" W 098° 16' 50.92"	CLOUDY 79° SW 8	14:52	NT	NT	NT	1289	667.00	8,682	Baker Residence
11/04/19	11/04/2019 Base Pit S. Wall A	N 29° 38' 8.46" W 098° 16' 50.92"	CLOUDY 79° SW 8	14:52	NT	NT	NT	1289	667.00	5,723	City Property Line
11/04/19	11/04/2019 Base Pit S. Wall A	N 29° 38' 8.46" W 098° 16' 50.92"	CLOUDY 79° SW 8	14:52	0.025	16.1	109.0	1289	667.00	3,192	Holly - 9916 Trophy Oaks
11/04/19	11/04/2019 Base Pit S. Wall A	N 29° 38' 8.46" W 098° 16' 50.92"	CLOUDY 79° SW 8	14:52	NT	NT	NT	1289	667.00	8,764	Michels - 9118 Tuscan Hills
11/04/19	11/04/2019 Base Pit S. Wall A	N 29° 38' 8.46" W 098° 16' 50.92"	CLOUDY 79° SW 8	14:52	0.025	8.5	112.0	1289	667.00	4,567	Warden - 21375 Gunther Grove
11/06/19	11/06/2019 Combined S. Wall AA	N 29° 38' 4.11" W 098° 16' 37.75"	CLOUDY 81° S 7	12:49	NT	NT	NT	1202	1507.00	9,916	Baker Residence
11/06/19	11/06/2019 Combined S. Wall AA	N 29° 38' 4.11" W 098° 16' 37.75"	CLOUDY 81° S 7	12:49	NT	NT	NT	1202	1507.00	6,956	City Property Line
11/06/19	11/06/2019 Combined S. Wall AA	N 29° 38' 4.11" W 098° 16' 37.75"	CLOUDY 81° S 7	12:49	0.090	25.0	110.0	1202	1507.00	4,423	Holly - 9916 Trophy Oaks
11/06/19	11/06/2019 Combined S. Wall AA	N 29° 38' 4.11" W 098° 16' 37.75"	CLOUDY 81° S 7	12:49	NT	NT	NT	1202	1507.00	10,000	Michels - 9118 Tuscan Hills
11/06/19	11/06/2019 Combined S. Wall AA	N 29° 38' 4.11" W 098° 16' 37.75"	CLOUDY 81° S 7	12:49	0.063	17.2	115.0	1202	1507.00	5,808	Warden - 21375 Gunther Grove

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**GARDEN RIDGE QUARRY COMMISSION
HANSON - SERVTEX QUARRY
GARDEN RIDGE, TEXAS
NOVEMBER 2019**

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
11/12/19	11/12/2019 Combined S. Wall D	N 29° 38' 2.05" W 098° 16' 44.88"	CLOUDY 35° N 26	12:36	NT	NT	NT	1118	901.00	9,371	Baker Residence
11/12/19	11/12/2019 Combined S. Wall D	N 29° 38' 2.05" W 098° 16' 44.88"	CLOUDY 35° N 26	12:36	NT	NT	NT	1118	901.00	6,415	City Property Line
11/12/19	11/12/2019 Combined S. Wall D	N 29° 38' 2.05" W 098° 16' 44.88"	CLOUDY 35° N 26	12:36	0.040	7.0	110.0	1118	901.00	3,884	Holly - 9916 Trophy Oaks
11/12/19	11/12/2019 Combined S. Wall D	N 29° 38' 2.05" W 098° 16' 44.88"	CLOUDY 35° N 26	12:36	NT	NT	NT	1118	901.00	9,536	Michels - 9118 Tuscan Hills
11/12/19	11/12/2019 Combined S. Wall D	N 29° 38' 2.05" W 098° 16' 44.88"	CLOUDY 35° N 26	12:36	0.035	9.8	110.0	1118	901.00	5,299	Warden - 21375 Gunther Grove
11/13/19	11/13/2019 Base Pit S. Wall C	N 29° 38' 6.44" W 098° 16' 58.34"	CLOUDY 39° NW 6	13:21	NT	NT	NT	1118	784.00	8,107	Baker Residence
11/13/19	11/13/2019 Base Pit S. Wall C	N 29° 38' 6.44" W 098° 16' 58.34"	CLOUDY 39° NW 6	13:21	NT	NT	NT	1118	784.00	5,150	City Property Line
11/13/19	11/13/2019 Base Pit S. Wall C	N 29° 38' 6.44" W 098° 16' 58.34"	CLOUDY 39° NW 6	13:21	0.038	7.8	103.0	1118	784.00	2,618	Holly - 9916 Trophy Oaks
11/13/19	11/13/2019 Base Pit S. Wall C	N 29° 38' 6.44" W 098° 16' 58.34"	CLOUDY 39° NW 6	13:21	NT	NT	NT	1118	784.00	8,284	Michels - 9118 Tuscan Hills
11/13/19	11/13/2019 Base Pit S. Wall C	N 29° 38' 6.44" W 098° 16' 58.34"	CLOUDY 39° NW 6	13:21	0.053	18.5	104.0	1118	784.00	4,035	Warden - 21375 Gunther Grove
11/18/19	11/18/2019 Combined S. Wall E	N 29° 38' 1.20" W 098° 16' 48.08"	SUNNY 70° W 4	14:54	NT	NT	NT	1080	746.00	9,129	Baker Residence
11/18/19	11/18/2019 Combined S. Wall E	N 29° 38' 1.20" W 098° 16' 48.08"	SUNNY 70° W 4	14:54	NT	NT	NT	1080	746.00	6,177	City Property Line
11/18/19	11/18/2019 Combined S. Wall E	N 29° 38' 1.20" W 098° 16' 48.08"	SUNNY 70° W 4	14:54	0.045	20.0	112.0	1080	746.00	3,653	Holly - 9916 Trophy Oaks
11/18/19	11/18/2019 Combined S. Wall E	N 29° 38' 1.20" W 098° 16' 48.08"	SUNNY 70° W 4	14:54	NT	NT	NT	1080	746.00	9,332	Michels - 9118 Tuscan Hills
11/18/19	11/18/2019 Combined S. Wall E	N 29° 38' 1.20" W 098° 16' 48.08"	SUNNY 70° W 4	14:54	0.038	7.5	112.0	1080	746.00	5,079	Warden - 21375 Gunther Grove

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

**GARDEN RIDGE QUARRY COMMISSION
HANSON - SERVTEX QUARRY
GARDEN RIDGE, TEXAS
NOVEMBER 2019**

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
11/19/19	11/19/2019 Upper West 3I	N 29° 39' 2.95" W 098° 17' 46.86"	SUNNY 77° S 12	14:45	NT	NT	NT	976	50.00	4,852	Baker Residence
11/19/19	11/19/2019 Upper West 3I	N 29° 39' 2.95" W 098° 17' 46.86"	SUNNY 77° S 12	14:45	NT	NT	NT	976	50.00	4,197	City Property Line
11/19/19	11/19/2019 Upper West 3I	N 29° 39' 2.95" W 098° 17' 46.86"	SUNNY 77° S 12	14:45	NT	NT	NT	976	50.00	3,336	Michels - 9118 Tuscan Hills
11/19/19	11/19/2019 Upper West 3I	N 29° 39' 2.95" W 098° 17' 46.86"	SUNNY 77° S 12	14:45	0.025	10.4	87.0	976	50.00	4,093	Warden - 21375 Gunther Grove
11/19/19	11/19/2019 Upper West 3I	N 29° 39' 2.95" W 098° 17' 46.86"	SUNNY 77° S 12	14:45	0.028	15.6	90.0	976	50.00	3,899	Warden Property Line
11/22/19	11/22/2019 Base Pit S. Wall B	N 29° 38' 7.08" W 098° 16' 54.02"	CLOUDY 55° N 15	10:58	NT	NT	NT	1327	762.00	8,980	Baker Residence
11/22/19	11/22/2019 Base Pit S. Wall B	N 29° 38' 7.08" W 098° 16' 54.02"	CLOUDY 55° N 15	10:58	NT	NT	NT	1327	762.00	6,984	City Property Line
11/22/19	11/22/2019 Base Pit S. Wall B	N 29° 38' 7.08" W 098° 16' 54.02"	CLOUDY 55° N 15	10:58	0.028	20.0	108.0	1327	762.00	5,992	Holly - 9916 Trophy Oaks
11/22/19	11/22/2019 Base Pit S. Wall B	N 29° 38' 7.08" W 098° 16' 54.02"	CLOUDY 55° N 15	10:58	NT	NT	NT	1327	762.00	7,841	Michels - 9118 Tuscan Hills
11/22/19	11/22/2019 Base Pit S. Wall B	N 29° 38' 7.08" W 098° 16' 54.02"	CLOUDY 55° N 15	10:58	0.045	10.4	107.0	1327	762.00	6,029	Warden - 21375 Gunther Grove
11/25/19	11/25/2019 Combined S. Wall F	N 29° 38' 0.25" W 098° 16' 53.15"	SUNNY 64° SW 8	13:19	NT	NT	NT	1080	699.00	8,739	Baker Residence
11/25/19	11/25/2019 Combined S. Wall F	N 29° 38' 0.25" W 098° 16' 53.15"	SUNNY 64° SW 8	13:19	NT	NT	NT	1080	699.00	5,795	City Property Line
11/25/19	11/25/2019 Combined S. Wall F	N 29° 38' 0.25" W 098° 16' 53.15"	SUNNY 64° SW 8	13:19	0.048	7.5	110.0	1080	699.00	3,288	Holly - 9916 Trophy Oaks
11/25/19	11/25/2019 Combined S. Wall F	N 29° 38' 0.25" W 098° 16' 53.15"	SUNNY 64° SW 8	13:19	NT	NT	NT	1080	699.00	8,998	Michels - 9118 Tuscan Hills
11/25/19	11/25/2019 Combined S. Wall F	N 29° 38' 0.25" W 098° 16' 53.15"	SUNNY 64° SW 8	13:19	0.040	16.1	106.0	1080	699.00	4,727	Warden - 21375 Gunther Grove

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January 2, 2020

Mr. Mike Shands
Garden Ridge Quarry Commission
9400 Municipal Parkway
Garden Ridge, Texas 78266

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

Phone 512.442.6464
Fax 512.442.6552

Dear Mr. Shands,

Enclosed is the analysis for the blasting conducted during the month of December 2019 at the Hanson Aggregates Quarry in Garden Ridge, Texas. Please place this information in your 2019 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, Mike Shands at (210) 257-0868, or attend the Quarry Commission meeting held every other month (odd months) at 6:00 PM.

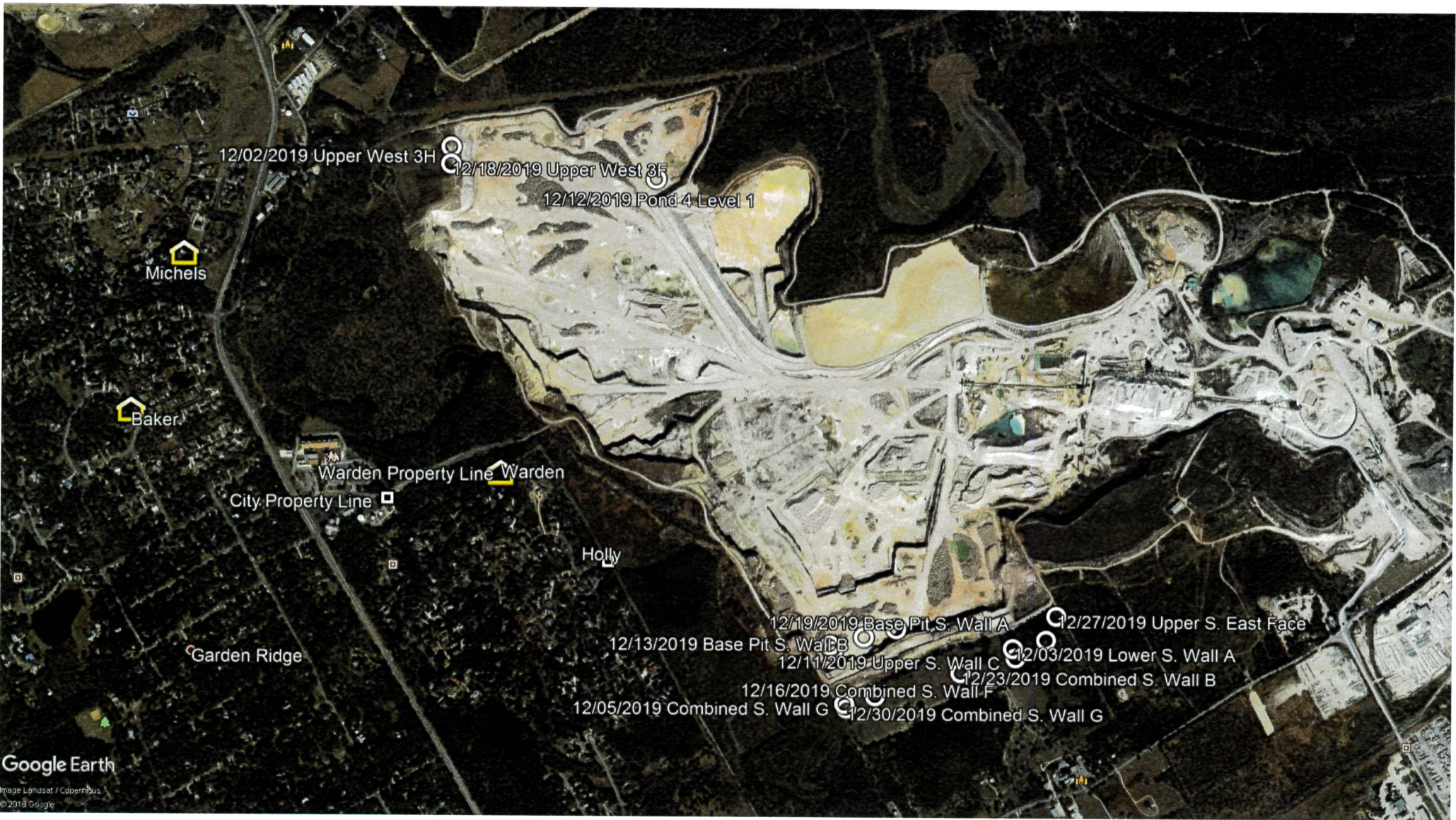
Respectfully submitted,

VIBRA-TECH, INC.



Nicholas Reitinger
Regional Manager

cc: Hal Halamuda, Hanson – Servtex



12/02/2019 Upper West 3H

12/18/2019 Upper West 3F

12/12/2019 Pond 4 Level 1

Michels

Baker

Warden Property Line

City Property Line

Holly

Garden Ridge

12/19/2019 Base Pit S. Wall A

12/27/2019 Upper S. East Face

12/13/2019 Base Pit S. Wall B

12/11/2019 Upper S. Wall C

12/03/2019 Lower S. Wall A

12/16/2019 Combined S. Wall F

12/23/2019 Combined S. Wall B

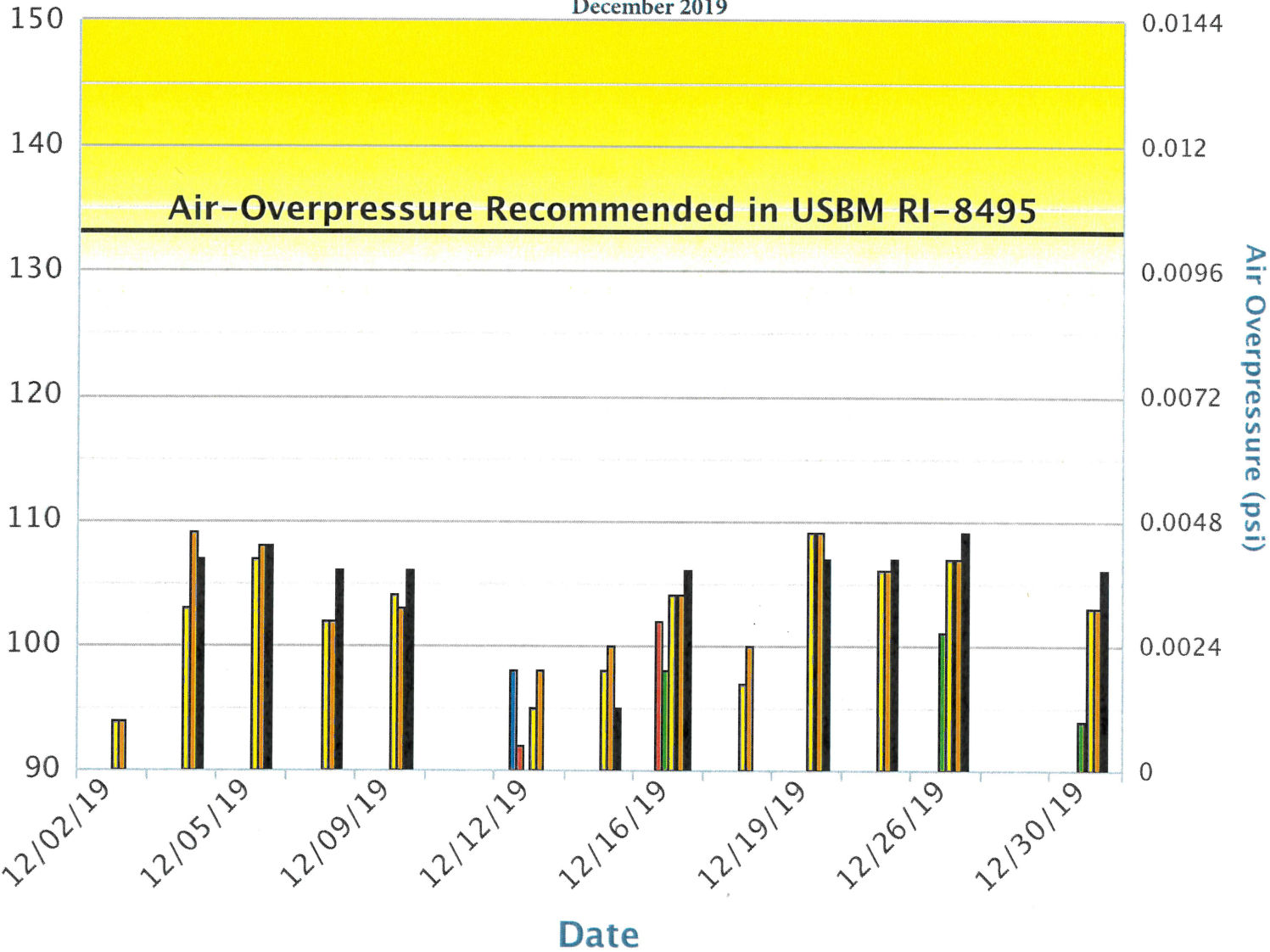
12/05/2019 Combined S. Wall G

12/30/2019 Combined S. Wall G

Google Earth

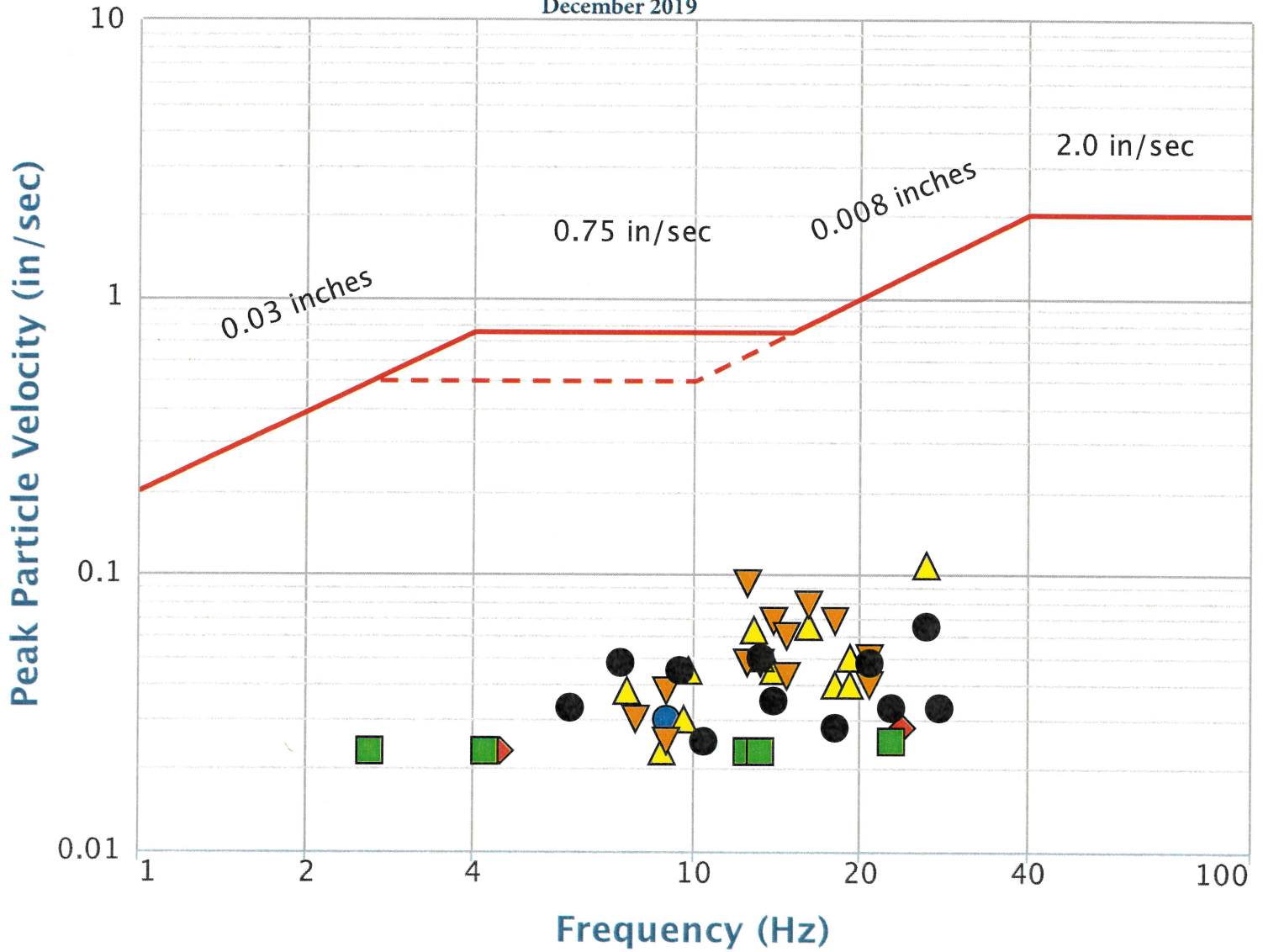
Image Landsat / Copernicus
© 2018 Google

Garden Ridge Quarry Commission
 Garden Ridge, Texas
 AO Graph
 December 2019



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

Garden Ridge Quarry Commission
 Garden Ridge, Texas
 USBM Graph
 December 2019



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

**GARDEN RIDGE QUARRY COMMISSION
HANSON - SERVTEX QUARRY
GARDEN RIDGE, TEXAS
DECEMBER 2019**

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
12/02/19	12/02/2019 Upper West 3H	N 29° 39' 0.88" W 098° 17' 46.68"	SUNNY 62° NW 8	12:42	NT	NT	NT	1012	50.00	4,720	Baker Residence
12/02/19	12/02/2019 Upper West 3H	N 29° 39' 0.88" W 098° 17' 46.68"	SUNNY 62° NW 8	12:42	NT	NT	NT	1012	50.00	3,992	City Property Line
12/02/19	12/02/2019 Upper West 3H	N 29° 39' 0.88" W 098° 17' 46.68"	SUNNY 62° NW 8	12:42	NT	NT	NT	1012	50.00	3,254	Michels - 9118 Tuscan Hills
12/02/19	12/02/2019 Upper West 3H	N 29° 39' 0.88" W 098° 17' 46.68"	SUNNY 62° NW 8	12:42	0.023	8.8	94.0	1012	50.00	3,883	Warden - 21375 Gunther Grove
12/02/19	12/02/2019 Upper West 3H	N 29° 39' 0.88" W 098° 17' 46.68"	SUNNY 62° NW 8	12:42	0.025	8.9	94.0	1012	50.00	3,690	Warden Property Line
12/03/19	12/03/2019 Lower S. Wall A	N 29° 38' 5.38" W 098° 16' 34.99"	SUNNY 66° SW 12	13:18	NT	NT	NT	1460	637.00	10,119	Baker Residence
12/03/19	12/03/2019 Lower S. Wall A	N 29° 38' 5.38" W 098° 16' 34.99"	SUNNY 66° SW 12	13:18	NT	NT	NT	1460	637.00	7,160	City Property Line
12/03/19	12/03/2019 Lower S. Wall A	N 29° 38' 5.38" W 098° 16' 34.99"	SUNNY 66° SW 12	13:18	0.033	27.8	107.0	1460	637.00	4,630	Holly - 9916 Trophy Oaks
12/03/19	12/03/2019 Lower S. Wall A	N 29° 38' 5.38" W 098° 16' 34.99"	SUNNY 66° SW 12	13:18	NT	NT	NT	1460	637.00	10,165	Michels - 9118 Tuscan Hills
12/03/19	12/03/2019 Lower S. Wall A	N 29° 38' 5.38" W 098° 16' 34.99"	SUNNY 66° SW 12	13:18	0.040	19.2	103.0	1460	637.00	5,998	Warden - 21375 Gunther Grove
12/05/19	12/05/2019 Combined S. Wall G	N 29° 37' 59.05" W 098° 16' 56.36"	SUNNY 72° N 8	13:34	NT	NT	NT	1270	582.00	8,517	Baker Residence
12/05/19	12/05/2019 Combined S. Wall G	N 29° 37' 59.05" W 098° 16' 56.36"	SUNNY 72° N 8	13:34	NT	NT	NT	1270	582.00	5,584	City Property Line
12/05/19	12/05/2019 Combined S. Wall G	N 29° 37' 59.05" W 098° 16' 56.36"	SUNNY 72° N 8	13:34	0.035	8.1	108.0	1270	582.00	3,101	Holly - 9916 Trophy Oaks
12/05/19	12/05/2019 Combined S. Wall G	N 29° 37' 59.05" W 098° 16' 56.36"	SUNNY 72° N 8	13:34	NT	NT	NT	1270	582.00	8,825	Michels - 9118 Tuscan Hills
12/05/19	12/05/2019 Combined S. Wall G	N 29° 37' 59.05" W 098° 16' 56.36"	SUNNY 72° N 8	13:34	0.063	12.8	107.0	1270	582.00	4,546	Warden - 21375 Gunther Grove
12/06/19	12/06/2019 Base Pit S. Wall C	N 29° 38' 5.65" W 098° 16' 58.22"	SUNNY 71° NW 12	12:31	0.023	12.5	90.0	1080	877.00	8,141	Baker Residence

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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
12/06/19	12/06/2019 Base Pit S. Wall C	N 29° 38' 5.65" W 098° 16' 58.22"	SUNNY 71° NW 12	12:31	NT	NT	NT	1080	877.00	5,185	City Property Line
12/06/19	12/06/2019 Base Pit S. Wall C	N 29° 38' 5.65" W 098° 16' 58.22"	SUNNY 71° NW 12	12:31	0.050	13.2	106.0	1080	877.00	2,656	Holly - 9916 Trophy Oaks
12/06/19	12/06/2019 Base Pit S. Wall C	N 29° 38' 5.65" W 098° 16' 58.22"	SUNNY 71° NW 12	12:31	NT	NT	NT	1080	877.00	8,333	Michels - 9118 Tuscan Hills
12/06/19	12/06/2019 Base Pit S. Wall C	N 29° 38' 5.65" W 098° 16' 58.22"	SUNNY 71° NW 12	12:31	0.038	7.6	102.0	1080	877.00	4,078	Warden - 21375 Gunther Grove
12/09/19	12/09/2019 Lower S. East Face	N 29° 38' 6.32" W 098° 16' 30.73"	CLOUDY 70° NW 5	13:56	NT	NT	NT	1308	585.00	10,461	Baker Residence
12/09/19	12/09/2019 Lower S. East Face	N 29° 38' 6.32" W 098° 16' 30.73"	CLOUDY 70° NW 5	13:56	NT	NT	NT	1308	585.00	7,505	City Property Line
12/09/19	12/09/2019 Lower S. East Face	N 29° 38' 6.32" W 098° 16' 30.73"	CLOUDY 70° NW 5	13:56	0.033	22.7	106.0	1308	585.00	4,979	Holly - 9916 Trophy Oaks
12/09/19	12/09/2019 Lower S. East Face	N 29° 38' 6.32" W 098° 16' 30.73"	CLOUDY 70° NW 5	13:56	NT	NT	NT	1308	585.00	10,470	Michels - 9118 Tuscan Hills
12/09/19	12/09/2019 Lower S. East Face	N 29° 38' 6.32" W 098° 16' 30.73"	CLOUDY 70° NW 5	13:56	0.040	17.9	104.0	1308	585.00	6,331	Warden - 21375 Gunther Grove
12/11/19	12/11/2019 Upper S. Wall C	N 29° 38' 4.35" W 098° 16' 34.66"	CLOUDY 43° NE 7	13:37	NT	NT	NT	2855	66	10,173	Baker Residence
12/11/19	12/11/2019 Upper S. Wall C	N 29° 38' 4.35" W 098° 16' 34.66"	CLOUDY 43° NE 7	13:37	NT	NT	NT	2855	66	7,213	City Property Line
12/11/19	12/11/2019 Upper S. Wall C	N 29° 38' 4.35" W 098° 16' 34.66"	CLOUDY 43° NE 7	13:37	NT	NT	NT	2855	66	4,681	Holly - 9916 Trophy Oaks
12/11/19	12/11/2019 Upper S. Wall C	N 29° 38' 4.35" W 098° 16' 34.66"	CLOUDY 43° NE 7	13:37	NT	NT	NT	2855	66	10,235	Michels - 9118 Tuscan Hills
12/11/19	12/11/2019 Upper S. Wall C	N 29° 38' 4.35" W 098° 16' 34.66"	CLOUDY 43° NE 7	13:37	NT	NT	NT	2855	66	6,057	Warden - 21375 Gunther Grove
12/12/19	12/12/2019 Pond 4 Level 1	N 29° 38' 57.60" W 098° 17' 20.75"	SUNNY 60° S 6	15:00	NT	NT	NT	1204	519	6,441	Baker Residence
12/12/19	12/12/2019 Pond 4 Level 1	N 29° 38' 57.60" W 098° 17' 20.75"	SUNNY 60° S 6	15:00	0.028	23.8	92.0	1204	519	4,647	City Property Line

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12/12/19	12/12/2019 Pond 4 Level 1	N 29° 38' 57.60" W 098° 17' 20.75"	SUNNY 60° S 6	15:00	0.030	8.9	98.0	1204	519	5,328	Michels - 9118 Tuscan Hills
12/12/19	12/12/2019 Pond 4 Level 1	N 29° 38' 57.60" W 098° 17' 20.75"	SUNNY 60° S 6	15:00	0.108	26.3	95.0	1204	519	3,895	Warden - 21375 Gunther Grove
12/12/19	12/12/2019 Pond 4 Level 1	N 29° 38' 57.60" W 098° 17' 20.75"	SUNNY 60° S 6	15:00	0.093	12.5	98.0	1204	519	3,661	Warden Property Line
12/13/19	12/13/2019 Base Pit S. Wall B	N 29° 38' 6.55" W 098° 16' 53.94"	SUNNY 69° SW 12	13:28	NT	NT	NT	1270	761.00	8,476	Baker Residence
12/13/19	12/13/2019 Base Pit S. Wall B	N 29° 38' 6.55" W 098° 16' 53.94"	SUNNY 69° SW 12	13:28	NT	NT	NT	1270	761.00	5,517	City Property Line
12/13/19	12/13/2019 Base Pit S. Wall B	N 29° 38' 6.55" W 098° 16' 53.94"	SUNNY 69° SW 12	13:28	0.025	10.4	95.0	1270	761.00	2,983	Holly - 9916 Trophy Oaks
12/13/19	12/13/2019 Base Pit S. Wall B	N 29° 38' 6.55" W 098° 16' 53.94"	SUNNY 69° SW 12	13:28	NT	NT	NT	1270	761.00	8,617	Michels - 9118 Tuscan Hills
12/13/19	12/13/2019 Base Pit S. Wall B	N 29° 38' 6.55" W 098° 16' 53.94"	SUNNY 69° SW 12	13:28	0.045	13.9	98.0	1270	761.00	4,386	Warden - 21375 Gunther Grove
12/16/19	12/16/2019 Combined S. Wall F	N 29° 37' 59.93" W 098° 16' 52.45"	SUNNY 61° N 14	12:43	0.023	4.2	98.0	1278	733.00	8,808	Baker Residence
12/16/19	12/16/2019 Combined S. Wall F	N 29° 37' 59.93" W 098° 16' 52.45"	SUNNY 61° N 14	12:43	0.023	4.5	102.0	1278	733.00	5,865	City Property Line
12/16/19	12/16/2019 Combined S. Wall F	N 29° 37' 59.93" W 098° 16' 52.45"	SUNNY 61° N 14	12:43	0.033	6.0	106.0	1278	733.00	3,357	Holly - 9916 Trophy Oaks
12/16/19	12/16/2019 Combined S. Wall F	N 29° 37' 59.93" W 098° 16' 52.45"	SUNNY 61° N 14	12:43	NT	NT	NT	1278	733.00	9,067	Michels - 9118 Tuscan Hills
12/16/19	12/16/2019 Combined S. Wall F	N 29° 37' 59.93" W 098° 16' 52.45"	SUNNY 61° N 14	12:43	0.040	19.2	104.0	1278	733.00	4,797	Warden - 21375 Gunther Grove
12/18/19	12/18/2019 Upper West 3F	N 29° 38' 58.97" W 098° 17' 46.71"	SUNNY 54° W 4	12:24	NT	NT	NT	1088	96.00	4,590	Baker Residence
12/18/19	12/18/2019 Upper West 3F	N 29° 38' 58.97" W 098° 17' 46.71"	SUNNY 54° W 4	12:24	NT	NT	NT	1088	96.00	3,801	City Property Line
12/18/19	12/18/2019 Upper West 3F	N 29° 38' 58.97" W 098° 17' 46.71"	SUNNY 54° W 4	12:24	NT	NT	NT	1088	96.00	3,173	Michels - 9118 Tuscan Hills

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12/18/19	12/18/2019 Upper West 3F	N 29° 38' 58.97" W 098° 17' 46.71"	SUNNY 54° W 4	12:24	0.030	9.6	97.0	1088	96.00	3,693	Warden - 21375 Gunther Grove
12/18/19	12/18/2019 Upper West 3F	N 29° 38' 58.97" W 098° 17' 46.71"	SUNNY 54° W 4	12:24	0.030	7.9	100.0	1088	96.00	3,501	Warden Property Line
12/19/19	12/19/2019 Base Pit S. Wall A	N 29° 38' 7.50" W 098° 16' 49.84"	SUNNY 56° SE 9	12:22	NT	NT	NT	1788	723.00	8,798	Baker Residence
12/19/19	12/19/2019 Base Pit S. Wall A	N 29° 38' 7.50" W 098° 16' 49.84"	SUNNY 56° SE 9	12:22	NT	NT	NT	1788	723.00	5,839	City Property Line
12/19/19	12/19/2019 Base Pit S. Wall A	N 29° 38' 7.50" W 098° 16' 49.84"	SUNNY 56° SE 9	12:22	0.028	17.9	107.0	1788	723.00	3,307	Holly - 9916 Trophy Oaks
12/19/19	12/19/2019 Base Pit S. Wall A	N 29° 38' 7.50" W 098° 16' 49.84"	SUNNY 56° SE 9	12:22	NT	NT	NT	1788	723.00	8,893	Michels - 9118 Tuscan Hills
12/19/19	12/19/2019 Base Pit S. Wall A	N 29° 38' 7.50" W 098° 16' 49.84"	SUNNY 56° SE 9	12:22	0.045	9.8	109.0	1788	723.00	4,689	Warden - 21375 Gunther Grove
12/23/19	12/23/2019 Combined S. Wall B	N 29° 38' 2.64" W 098° 16' 41.62"	CLEAR 68° SW 7	13:00	NT ↗	NT	NT	1240	813.00	9,628	Baker Residence
12/23/19	12/23/2019 Combined S. Wall B	N 29° 38' 2.64" W 098° 16' 41.62"	CLEAR 68° SW 7	13:00	NT	NT	NT	1240	813.00	6,670	City Property Line
12/23/19	12/23/2019 Combined S. Wall B	N 29° 38' 2.64" W 098° 16' 41.62"	CLEAR 68° SW 7	13:00	0.048	20.8	107.0	1240	813.00	4,137	Holly - 9916 Trophy Oaks
12/23/19	12/23/2019 Combined S. Wall B	N 29° 38' 2.64" W 098° 16' 41.62"	CLEAR 68° SW 7	13:00	NT	NT	NT	1240	813.00	9,762	Michels - 9118 Tuscan Hills
12/23/19	12/23/2019 Combined S. Wall B	N 29° 38' 2.64" W 098° 16' 41.62"	CLEAR 68° SW 7	13:00	0.065	16.1	106.0	1240	813.00	5,541	Warden - 21375 Gunther Grove
12/26/19	12/26/2019 Base Pit S. Wall C	N 29° 38' 5.05" W 098° 16' 57.85"	OVERCAST 67° SE 4	11:34	0.023	2.6	101.0	1080	816	8,190	Baker Residence
12/26/19	12/26/2019 Base Pit S. Wall C	N 29° 38' 5.05" W 098° 16' 57.85"	OVERCAST 67° SE 4	11:34	NT	NT	NT	1080	816	5,235	City Property Line
12/26/19	12/26/2019 Base Pit S. Wall C	N 29° 38' 5.05" W 098° 16' 57.85"	OVERCAST 67° SE 4	11:34	0.048	7.4	109.0	1080	816	2,708	Holly - 9916 Trophy Oaks
12/26/19	12/26/2019 Base Pit S. Wall C	N 29° 38' 5.05" W 098° 16' 57.85"	OVERCAST 67° SE 4	11:34	NT	NT	NT	1080	816	8,392	Michels - 9118 Tuscan Hills

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

**GARDEN RIDGE QUARRY COMMISSION
HANSON - SERVTEX QUARRY
GARDEN RIDGE, TEXAS
DECEMBER 2019**

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
12/26/19	12/26/2019 Base Pit S. Wall C	N 29° 38' 5.05" W 098° 16' 57.85"	OVERCAST 67° SE 4	11:34	0.050	19.2	107.0	1080	816	4,134	Warden - 21375 Gunther Grove
12/27/19	12/27/2019 Upper S. East Face	N 29° 38' 8.94" W 098° 16' 29.41"	PARTLY CLOUDY 72° SE 9	15:18	NT	NT	NT	2780	77.00	10,518	Baker Residence
12/27/19	12/27/2019 Upper S. East Face	N 29° 38' 8.94" W 098° 16' 29.41"	PARTLY CLOUDY 72° SE 9	15:18	NT	NT	NT	2780	77.00	7,567	City Property Line
12/27/19	12/27/2019 Upper S. East Face	N 29° 38' 8.94" W 098° 16' 29.41"	PARTLY CLOUDY 72° SE 9	15:18	NT	NT	NT	2780	77.00	5,054	Holly - 9916 Trophy Oaks
12/27/19	12/27/2019 Upper S. East Face	N 29° 38' 8.94" W 098° 16' 29.41"	PARTLY CLOUDY 72° SE 9	15:18	NT	NT	NT	2780	77.00	10,476	Michels - 9118 Tuscan Hills
12/27/19	12/27/2019 Upper S. East Face	N 29° 38' 8.94" W 098° 16' 29.41"	PARTLY CLOUDY 72° SE 9	15:18	NT	NT	NT	2780	77.00	6,379	Warden - 21375 Gunther Grove
12/30/19	12/30/2019 Combined S. Wall G	N 29° 37' 58.50" W 098° 16' 56.10"	SUNNY 60° N 1	14:04	0.023	13.2	94.0	1327	651.00	8,559	Baker Residence
12/30/19	12/30/2019 Combined S. Wall G	N 29° 37' 58.50" W 098° 16' 56.10"	SUNNY 60° N 1	14:04	NT	NT	NT	1327	651.00	5,628	City Property Line
12/30/19	12/30/2019 Combined S. Wall G	N 29° 37' 58.50" W 098° 16' 56.10"	SUNNY 60° N 1	14:04	0.045	9.4	106.0	1327	651.00	3,150	Holly - 9916 Trophy Oaks
12/30/19	12/30/2019 Combined S. Wall G	N 29° 37' 58.50" W 098° 16' 56.10"	SUNNY 60° N 1	14:04	NT	NT	NT	1327	651.00	8,875	Michels - 9118 Tuscan Hills
12/30/19	12/30/2019 Combined S. Wall G	N 29° 37' 58.50" W 098° 16' 56.10"	SUNNY 60° N 1	14:04	0.050	13.2	103.0	1327	651.00	4,595	Warden - 21375 Gunther Grove

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
2019-60Q	September	9/6/2019	11:46	9/6/2019	Armando Diaz	21010 Gunther Grove	210-721-0112	2	1	2800	No	"Felt blast go through floor and heard wlls haking. I would like to understand general vicinity of blasting in quarry."	9/6/2019
2019-61Q	September	9/6/2019	11:46	9/6/2019	Kevin Heyburn	10015 Audrey Ridge	210-216-3097	5	2	3500	Yes	"House was just rocked from blast."	9/6/2019
2019-62Q	September	9/10/2019	12:04	9/10/2019	Armando Diaz	21010 Gunther Grove	210-721-0112	3	1	2800	No	"Blast felt through floor and heard walls vibrate."	9/10/2019
2019-63Q	September	9/11/2019	12:32	9/11/2019	Armando Diaz	21010 Gunther Grove	210-721-0112	3	1	2800	No	"Blast similar in intensity to blast from 9/10/2019. Felt floor vibration and heard walls shaking."	9/11/2019
2019-64Q	September	9/11/2019	12:23	9/11/2019	Steve Tyo	9119 Garden Ridge	210-825-1433	5	1	2300	No	"Windows shook in the house. Pictures moved on the wall. Entire house shook. This is getting old."	9/11/2019
2019-65Q	September	9/18/2019	3:13	9/18/2019	Armando Diaz	21010 Gunther Grove	210-721-0112	3	1	2800	No	"Blasting later in the day. This blast was slightly higher in intensity than has been felt in pervious weeks"	9/18/2019
2019-66Q	September	9/20/2019	12:23	9/20/2019	Armando Diaz	21010 Gunther Grove	210-721-0112	1	1	2800	No	"Felt slight vibration go through floor and heard walls vibrate slightly as well."	9/20/2019
2019-67Q	September	9/26/2019	1:45	9/26/2019	Erika Dozal-Rodriguez	9328 Blazing Star Tr	830-542-2179	5	1 1/2	3000	No	"House Shook"	9/26/2019
2019-68Q	October	10/3/2019	3:45	10/3/2019	Erika Dozal-Rodriguez	9328 Blazing Star Tr	830-542-2179	4	1 1/2	3000	No	"Felt house move and windows made noise"	10/3/2019
2019-69Q	October	10/3/2019	3:50	10/3/2019	Armando Diaz	21010 Gunther Grove	210-721-0112	2	1	2800	No	"heard walls vibrating and felt slight vibration through floor"	10/3/2019
2019-70Q	October	10/4/2019	11:53	10/4/2019	Armando Diaz	21010 Gunther Grove	210-721-0112	1	1	2800	No	"Lesser intensity than other blasts. I was at kitchen counter on computer when I heard slight wall vibration, and then I belive I detected a slighter secondary vibration"	10/4/2019
2019-71Q	October	10/7/2019	1:56	10/7/2019	Armando Diaz	21010 Gunther Grove	210-721-0112	1	1	2800	No	"In family room when blast occurred. I heard vibration first in kitchen dining area and heard secondary vibration in walls."	10/7/2019
2019-72Q	October	10/15/2019	11:15	10/15/2019	Armando Diaz	21010 Gunther Grove	210-721-0112	2.5	1	2800	No	"Felt floor vibration. I seemed like vibration moved from one side of the house to the other, or from SE to NW."	10/15/2019
2019-73Q	October	10/17/2019	12:55	10/17/2019	Armando Diaz	21010 Gunther Grove	210-721-0112	3	1	2800	No	"Felt floor vibration and heard walls shake."	10/17/2019
2019-74Q	October	10/23/2019	12:44	10/23/2019	Armando Diaz	21010 Gunther Grove	210-721-0112	3	1	2800	No	"Felt floor and heard walls vibrating."	10/23/2019
2019-75Q	November	11/18/2019	2:55	11/19/2019	Jerry Mills	20302 Regency Run	210-744-5297	5	2	3000	No	"We have blasts all the time. They scare shook the house on its foundation and interrupt. Sadly, we still ive with it and usually don't worry to report. This does not make it okay."	12/30/2019
2019-76Q	December	12/12/2019	3:00	12/12/2019	Armando Diaz	21010 Gunther Grove	210-721-0112	4	1	2800	No	"Strongest blast I've felt in a while. Felt vibration on floor."	12/12/2019

Print

Citizen Quarry Blast Impact Report - Submission #1464

Date Submitted: 9/6/2019

First Name	Last Name	Report Date
Armando	Diaz	9/6/2019

Phone Number:	E-Mail Address
2107210112	

Address1	Blast Date/Time:
21010 Gunther Grove	9/6/2019 - 11:46

Please describe the event.

Felt blast go through floor and heard walls shaking. I would like to understand general vicinity of blasting in quarry.

How did this blast compare to other blasts?

About the same as recent blasts, although it's been a while since I felt any

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

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

Print

Citizen Quarry Blast Impact Report - Submission #1465

Date Submitted: 9/6/2019

First Name	Last Name	Report Date
KEVIN	HEYBURN	<input type="text" value="mm/dd/yyyy"/>

Phone Number:	E-Mail Address
210-216-3097	

Address1	Blast Date/Time:
10015 Audrey Ridge	9/6/2019 1146AM

Please describe the event.

House was just rocked from blast

How did this blast compare to other blasts?

This is the biggest blast I have ever felt...house/windows...and felt pressure in my feet as foundation was rocked by the blast.

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 house having lunch

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

SW

What is the approximate square footage of your home?

3500

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

2 Story

Would you like a Quarry Commission member to contact you regarding your report?

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

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Citizen Quarry Blast Impact Report - Submission #1471

Date Submitted: 9/10/2019

First Name	Last Name	Report Date
Armando	Diaz	9/10/2019

Phone Number:	E-Mail Address
210-721-0112	

Address1	Blast Date/Time:
21010 Gunther Grove	09/10/2019 - 12:04

Please describe the event.

Blast felt through floor and heard walls vibrate

How did this blast compare to other blasts?

Slightly more intense than recent blasts

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?

In family room

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

W

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 Commission member to contact you regarding your report?

No

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

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Citizen Quarry Blast Impact Report - Submission #1474

Date Submitted: 9/11/2019

First Name	Last Name	Report Date
Armando	Diaz	9/11/2019

Phone Number:	E-Mail Address
2107210112	

Address1	Blast Date/Time:
21010 Gunther Grove	9/11/2019 - 12:32

Please describe the event.

Blast similar in intensity to blast from 9/10/2019, Felt floor vibration and heard walls vibrating

How did this blast compare to other blasts?

Similar to blast from 9/10/2019

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?

At kitchen island

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

W

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 Commission member to contact you regarding your report?

No

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 #1475

Date Submitted: 9/11/2019

First Name	Last Name	Report Date
Steve	Tyo	9/11/2019

Phone Number:	E-Mail Address
2108251433	

Address1	Blast Date/Time:
9119 Garden Ridge Drive	09/11 12:23pm

Please describe the event.

windows shook in the house. pictures moved on the wall. entire house shook. This is getting old!

How did this blast compare to other blasts?

I am usually not home but grew up in San Diego CA, and this was as bad as any of those quakes.

On a 1 to 5 scale, please rate the blast intensity. (1=minor, 5 = major)	What was your activity at the time of blast?	In what general direction does you house face? (N,E,S or W)
5	none of your business..... maybe researching new officials to elect???	east

What is the approximate square footage of your home?	Is your home a 1 story, 1 1/2 , or 2 story or large?	Would you like a Quarry Commission member to contact you regarding your report?	Would you like a Quarry Representative to contact you regarding your report?*
2300	1	No	No

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

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Citizen Quarry Blast Impact Report - Submission #1484

Date Submitted: 9/20/2019

First Name	Last Name	Report Date
Armando	Diaz	9/18/2019

Phone Number:	E-Mail Address
2107210112	

Address1	Blast Date/Time:
21010 Gunther Grove	9/18/2019 - 3:13

Please describe the event.

9/20/2019 - Forgot to submit this report on 9/18 when blast was felt, however I recorded the information in my notes. Blasting later in the day. This blast was slightly higher in intensity than has been felt in previous weeks.

How did this blast compare to other blasts?

Slightly higher in intensity. Felt vibration through floor and heard walls shaking.

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?

n family room

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

W

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 Commission member to contact you regarding your report?

No

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

No

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Citizen Quarry Blast Impact Report - Submission #1483

Date Submitted: 9/20/2019

First Name	Last Name	Report Date
Armando	Diaz	9/20/2019

Phone Number:	E-Mail Address
2107210112	

Address1	Blast Date/Time:
21010 Gunther Grove	09/20/2019 - 12:23

Please describe the event.

Felt slight vibration go through floor and heard walls vibrate slightly as well

How did this blast compare to other blasts?

Lesser intensity than previous blasts

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

1

What was your activity at the time of blast?

In family room

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

W

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 Commission member to contact you regarding your report?

No

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 #1497

Date Submitted: 9/26/2019

First Name	Last Name	Report Date
Erika	Dozal-Rodriguez	<input type="text" value="mm/dd/yyyy"/>

Phone Number:	E-Mail Address
8305422179	

Address1	Blast Date/Time:
9328 blazing star trl	09/26/2019/1345

Please describe the event.

How did this blast compare to other blasts?
house shook

On a 1 to 5 scale, please rate the blast intensity. (1=minor, 5 = major)	What was your activity at the time of blast?	In what general direction does you house face? (N,E,S or W)
5	watching tv	

What is the approximate square footage of your home?	Is your home a 1 story, 1 1/2 , or 2 story or large?	Would you like a Quarry Commission member to contact you regarding your report?	Would you like a Quarry Representative to contact you regarding your report?*
3000	1.5	<input type="text" value="No"/>	<input type="text" value="No"/>

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

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Citizen Quarry Blast Impact Report - Submission #1506

Date Submitted: 10/3/2019

First Name	Last Name	Report Date
Armando	Diaz	10/3/2019

Phone Number:	E-Mail Address
2107210112	

Address1	Blast Date/Time:
21010 Gunther Grove	10/03/2019 - 3:50

Please describe the event.

Heard walls vibrating and felt slight vibration through floor.

How did this blast compare to other blasts?

In line with other blasts felt recently

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

2

What was your activity at the time of blast?

At kitchen counter

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

W

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 Commission member to contact you regarding your report?

No

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 #1517

Date Submitted: 10/4/2019

First Name	Last Name	Report Date
Armando	Diaz	10/4/2019

Phone Number:	E-Mail Address
2107210112	

Address1	Blast Date/Time:
21010 Gunther Grove	10/04/2019 - 11:53

Please describe the event.

Lesser intensity than other blasts. I was at kitchen counter on computer when I heard slight wall vibration, and then I believe I detected a slighter secondary vibration.

How did this blast compare to other blasts?

Lesser intensity than yesterday

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

1

What was your activity at the time of blast?

At kitchen counter on computer

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

W

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 Commission member to contact you regarding your report?

No

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 #1537

Date Submitted: 10/7/2019

First Name

Armando

Last Name

Diaz

Report Date

10/7/2019

Phone Number:

2107210112

E-Mail Address

Address1

21010 Gunther Grove

Blast Date/Time:

10/7/2019 - 1:56

Please describe the event.

In family room when blast occurred. I heard vibration first in kitchen dining area and heard secondary vibration in walls

How did this blast compare to other blasts?

Recent blasts have been less intense, however I don't recall secondary vibrations occurring before. Not sure I've experienced this before. Has method for blasting changed which is causing the secondary vibration? I don't believe this is due to over pressure. What is causing this?

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

1

What was your activity at the time of blast?

In family room

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

W

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 Commission member to contact you regarding your report?

No

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

No

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Print

Citizen Quarry Blast Impact Report - Submission #1565

Date Submitted: 10/15/2019

First Name	Last Name	Report Date
Armando	Diaz	10/15/2019

Phone Number:	E-Mail Address
2107210112	

Address1	Blast Date/Time:
21010 Gunther Grove	10/15/2019 - 11:15

Please describe the event.

Felt floor vibration. It seemed like vibration moved from one side of the house to the other, or from SE to NW.

How did this blast compare to other blasts?

Blast vibration was slightly more intense than previous blasts.

On a 1 to 5 scale, please rate the blast intensity. (1=minor, 5 = major)	What was your activity at the time of blast?	In what general direction does you house face? (N,E,S or W)
2.5	At kitchen island on computer	W

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

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

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Citizen Quarry Blast Impact Report - Submission #1572

Date Submitted: 10/17/2019

First Name	Last Name	Report Date
Armando	Diaz	10/17/2019

Phone Number:	E-Mail Address
2107210112	

Address1	Blast Date/Time:
21010 Gunther Grove	10/17/2019 - 12:55

Please describe the event.
Felt floor vibrating and heard walls shake.

How did this blast compare to other blasts?
Higher intensity blasts than has been experienced lately.

On a 1 to 5 scale, please rate the blast intensity. (1=minor, 5 = major)	What was your activity at the time of blast?	In what general direction does you house face? (N,E,S or W)
3	Working on computer	W

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

Print

Citizen Quarry Blast Impact Report - Submission #1584

Date Submitted: 10/23/2019

First Name	Last Name	Report Date
Armando	Diaz	10/23/2019

Phone Number:	E-Mail Address
2107210112	

Address1	Blast Date/Time:
21010 Gunther Grove	10/23/2019 - 12:44

Please describe the event.

Felt floor and heard walls vibrating.

How did this blast compare to other blasts?

About the same level of intensity as recent blasting

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?

In kitchen

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

W

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 Commission member to contact you regarding your report?

No

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: Mills Jerry / Anne / Report Date: 18 November 2019
Address: 20302 Regency Reem E-Mail Address: _____
Phone: 210 744 5297 Blast Date/Time: 14:55

Please describe the event.

We have blasts all the time. They scare
shake the house on its foundation and interrupt.
Sadly, we still live with it and
usually don't worry to report. This does
not make it OK.

How did this blast compare to other blasts? We stopped in the middle of
a sentence, windows rattled and everything
in kitchen usually shudders. It could have
caused a heart attack. Very loud and no
warning. Unacceptable! Foundation shudders.

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? kitchen in conversation

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

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

What is the approximate square footage of your home? 13000

Would you like a Quarry Commission member to contact you regarding your report?
(Yes or No) _____ If something will be done about it
instead of just reek.

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. Thank you for submitting the form.

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

Assistant City Secretary

From: noreply@civicplus.com
Sent: Thursday, December 12, 2019 3:07 PM
To: City Administrator; City Secretary; Assistant City Secretary;
Subject: Online Form Submittal: Citizen Quarry Blast Impact Report

Citizen Quarry Blast Impact Report

First Name	Armando
Last Name	Diaz
Report Date	12/12/2019
Phone Number:	2107210112
E-Mail Address	
Address1	21010 Gunther Grove
Blast Date/Time:	12/12/2020 - 3:00
Please describe the event.	Strong blast shook walls and felt vibration on floor
How did this blast compare to other blasts?	Strongest blast I've felt in a while. Major shaking of walls and floor vibration. What area of the quarry did this blast come from?
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?	In family room
In what general direction does your house face? (N,E,S or W)	W
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

City Administrator

From:
Sent: Thursday, December 26, 2019 5:22 PM
To: City Administrator
Cc: Assistant City Secretary;
Subject: Resignation from Quarry Commission

Nancy,

Per my discussion with Kat Balbi it is my understanding that there are presently several individuals interested in serving on the Quarry Commission. In my resignation letter submitted in August of this year I agreed to continue to serve on the Quarry Commission, subject to City Council approval, until such time as volunteers should become available to serve on the Quarry Commission. It has been my pleasure to have had the opportunity to serve on this Commission since April 2004. It is time to afford the same opportunity to others to serve on this Commission. Therefore please consider this letter my notice of resignation to the Quarry Commission, Place 5, effective Monday, January 13, 2020 which will allow me the opportunity to help interview potential new members at the January 13 meeting and help in the recommendation process for my replacement.

Thank you for the opportunity to work on this Commission and in a small way help contribute to the quality of life in the City of Garden Ridge.

Sincerely,

Richard Holloway
Quarry Commission, Place 5

Print

City Commission Volunteer Interest Form - Submission #1511

Date Submitted: 10/3/2019



City of Garden Ridge

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

**City Commission
Volunteer Interest
Form**

Date

mm/dd/yyyy

First Name

Angus

Last Name

Beard

Address

20338 Regency Run

City

Garden Ridge

State

Texas

Zip Code

78266

Phone Number

Other contact number

Occupation

Retired

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

- | | |
|--|---|
| <input checked="" type="checkbox"/> Planning and Zoning Commission | <input checked="" type="checkbox"/> Wildlife Management Advisory Commission |
| <input checked="" type="checkbox"/> Quarry Commission | <input checked="" type="checkbox"/> Any City Commission |
| <input checked="" type="checkbox"/> Water Commission | |

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

interested in making Garden Ridge an even better place to live.

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

Please attach your resume or a bio.*

Angus Beaird Resume V6.docx

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

Angus G. Beard

PROFESSIONAL SUMMARY

Human Resources Manager, Talent Manager, Diplomat-Advisor, Trainer, Operations Manager, and Military Veteran with a Secret Security Clearance and 20 years of proven experience in the United States Army. Career supported by a Master's degree in Industrial and Organizational Psychology.

Training Development
Managing Change
Process Improvement
Cost Analysis

Author
Diversity
Senior Leadership
Policy Implementation

Employee Recognition Process
Diplomatic Relations
Microsoft Office Suite
Marketing

PROFESSIONAL EXPERIENCE

Angel Staffing, Inc.

January 2018- April 2018

Human Resources Manager

- Managed all areas of HR including employee relations, performance management, onboarding, benefits administration, recruiting/staffing, training, compensation analysis, and managing admin staff.
- Served as HIPAA and OSHA Compliance and Training Officer.
- Performed all areas of HR functions for over 40 employees working on various government contracts worth over 10M
- Developed training and instituted policies that enhanced efficiency, improved adherence to acceptable business practices, and enhanced safety guidelines for risk mitigation.
- Responsible for researching medical prospective employee's medical, criminal, professional, and credentials backgrounds to ensure the best candidates were selected for employment.
- Reported to, directly interacted, and collaborated with the Chief Operations Officer daily

U.S. Army – Multiple Locations

October 1996 – November 2017

Senior Human Resources and Talent Manager

- Led a team of 140 people ranging from U.S. Army employees to contracted civilian employees managing and developing training curriculum, execution, after action reviews
- Facilitated over 31,416 medical appointments resulting in a 99.4% success rate effecting \$3,700,000.
- Created a process and products database that reduced employee and manager research time by 26%
- Developed an awards submission process that improved timeliness and accuracy for over 50 awards
- Maintained accurate records for all employees
- Established procedures to ensure timely investigations for employee issues including discipline, performance, pay, and safety issues

Diplomat and Medical Advisor

- Mentored and advised 54 foreign units that supported over 100K personnel in health service support including modernization, policy development, material acquisition, human resources, training development, and quality control
- Developed and refined medical support training and support contracts worth over \$7.8M
- Exercised diplomatic prowess during frequent interactions with host nation royalty, senior government officials, and CEO level military level employees
- Authored a culturally focused paper on the intricacies of advising Saudi Arabian counterparts that was lauded by leadership and resulted in better relations in the region

Angus G. Beard

Director of Instruction and Curriculum Development

- Directed the instruction of Joint Medical Readiness Training for Combat Casualty Care indoctrination of over 1,000 physicians, physician assistants, Nurses, and Dentist from all branches of the Department of Defense as well as International Medical Officers
 - Led 22 medical officers through intensive combat scenario training that enhanced their capabilities to increase the survival rate of wounded employees on the battlefield
 - Instructed Pre-Hospital Trauma Life Support training for 32 medical officers, attained a 100% certification rate due to his superior instructor skills
 - Managed \$250K of training equipment; ensured zero losses and maintained 100% serviceability
 - Improved department supply economy resulting in a savings of \$25K
-

EDUCATION

MA, Industrial and Organizational Psychology - University of the Incarnate Word, San Antonio, TX
BS, Applied Arts and Sciences - University of the Incarnate Word, San Antonio, TX
AA, General Studies – Central Texas College, Killeen, TX

SPECIALIZED TRAINING

Lean Six Sigma – Yellow Belt
Master Resilience Trainer Course
Legal Administrator Pre-Appointment Course
Senior Leader Course

NOTABLE AWARDS

National Engaged Leader Award - National Society of Leadership and Success (Sigma Alpha Pi)
Bronze Star Medal (valor/exceptionally meritorious performance in combat; awarded three times)
National Champion semi-professional football player; San Antonio Warriors (OL, DL, FB, TE)



CITY OF GARDEN RIDGE VOLUNTEER APPLICATION



Name (Please Print): ARMANDO DIAZ

Address: 21010 GUNTHER GRN, GARDEN RIDGE, TX 78266

Home Phone: _____ Email: _____

Cell Phone: 210 721 0112 Date of Birth (mm/dd/yyyy): 6/25/1957

Are you at least 18 years of age? YES NO If 'No', parent / guardian will need to contact City Hall to sign a 'Minors Work Release'.

What type of services are you able and willing to provide the city? Check all that apply below.

<p>Clerical</p> <input type="checkbox"/> Displays <input type="checkbox"/> Envelope Stuffing <input type="checkbox"/> Filing <input type="checkbox"/> Phone Duty <input type="checkbox"/> Proofreader <input type="checkbox"/> Translator	<p>Hands on Skills</p> <input type="checkbox"/> Carpentry <input type="checkbox"/> Landscape/ Gardening <input type="checkbox"/> Photography <input type="checkbox"/> Videography	<p>Computer/Software (High Proficiency)</p> <input checked="" type="checkbox"/> Microsoft Excel <input checked="" type="checkbox"/> Microsoft PowerPoint <input checked="" type="checkbox"/> Microsoft Word <input type="checkbox"/> Social Media <input type="checkbox"/> Website
<p>General</p> <input type="checkbox"/> Animal Services <input type="checkbox"/> FM 2252 Sign Updates	<p>Library</p> <input type="checkbox"/> Shelving, phone duty, check in/ out, etc.	<p>Specialty Skills</p> <input type="checkbox"/> Actor <input type="checkbox"/> Certified sign language interpreter <input type="checkbox"/> Communications <input checked="" type="checkbox"/> Internet Research
<p>Special Events (e.g. 4th July)</p> <input type="checkbox"/> Event Planning <input type="checkbox"/> Event Volunteer	<p>City Commissions / Committees</p> <input type="checkbox"/> Parks Committee <input type="checkbox"/> Planning & Zoning <input checked="" type="checkbox"/> Quarry Commission <input checked="" type="checkbox"/> Water Commission	<p>Future Activities</p> <input checked="" type="checkbox"/> Emergency Operations Center <input checked="" type="checkbox"/> Check On Your Neighbor (COYN)
<p>If so, which event? _____</p>		

What special skills, education, training, or interests do you have that may be beneficial to the city?

Indicate any languages (other than English) you can speak or write. CONVERSATIONAL SPANISH

Approximately, how many **hours** per week are you willing to do volunteer work? _____

What times of day and days of the week are you generally available? Check all that apply.

	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
Morning							
Afternoon							
Evening							

- Are you volunteering; As an individual?
 As part of a group (school, company, etc.)?
If so, what group? _____
 To meet a court ordered Community Service requirement?

Volunteer Acknowledgements
I certify that my statements in this application and other required forms, are true, complete, and correct to the best of my knowledge.
I understand that the city may do verification on any information provided by me as part of the volunteer process.
I understand that, in some cases, the City may need to do a personal background check prior to my starting any volunteer work. In such cases, I will provide the City the additional information necessary complete that check.
I understand that if a medical emergency occurs while I am performing volunteer work, the City will seek emergency medical treatment on my behalf and will also notify the person I designate as my emergency contact.
I understand that, in response to the Texas Public Information Act, situations could arise where the city is required to release to the public information provided by me as part of the volunteer process.

By signing below, I confirm I have read and understand these acknowledgements.



Volunteer Signature

10/1/2019

Date

<p>Summary of Qualifications</p>	<p>Over twelve years experience in sourcing of equipment, instrumentation, materials and managing outsourced fabrication equipment used in the assembly of CO2 and Natural Gas Liquefaction (LNG), Natural Gas Pre-Treatment and Natural Gas Liquids (NGL) plants. Understanding of P&ID, PFD and piping isometrics and applicability to equipment conditions and requirements</p>
<p>Summary of Work Experience</p>	<p>2013 – May 2019 - Baker Hughes, a GE Company – Schertz TX</p> <p>Project Sourcing Leader</p> <ul style="list-style-type: none"> ▪ Close working relationship with commercial sales team to ensure proposal offering on project process equipment and materials captures all project requirements and conditions ▪ Review of equipment and material specifications with engineering to help ensure equipment requirements are properly aligned with project requirements and equipment is not burdened with additional unnecessary specifications which add costs ▪ Support manufacturing and project team on resolving issues with non-conforming products and involve supplier to ensure all non-conforming items are corrected or replaced to meet project specifications. ▪ Work closely with Sourcing Buyer Team and keep them informed of project equipment budgets, schedules and delivery requirements ▪ Negotiate commercial terms and conditions as well as payment terms with suppliers ▪ Strategic alignment and development of supplier base to ensure continued fulfillment of equipment and material orders. ▪ Manage supplier outsourcing for fabricated materials. Such as pipe and structural steel fabrication. <p>2007 – 2013 - Salof Refrigeration – Schertz, TX (GE Oil & Gas acquisition in June 2013)</p> <p>Procurement Department Manager</p> <ul style="list-style-type: none"> ▪ Planned, directed and coordinated sourcing of equipment and materials for fabrication of CO2 and LNG liquefaction plants with project manager and project engineer(s) ▪ Coordinated project procurement plan with Project stake holders including project manager, fabrication manager, I&E project manager and shipping and receiving ▪ Provided accounting system administrator support ▪ Negotiated cost and delivery of project materials with suppliers ▪ Developed and implemented purchasing and contract management instructions, policies, and procedures. ▪ Directed and coordinated activities of personnel engaged in buying materials, equipment, machinery, and supplies. <p>2006 – 2007 - Salof Refrigeration-New Braunfels TX</p> <p>Special Projects</p> <ul style="list-style-type: none"> ▪ Trained with Procurement Manager as a Buyer ▪ Expedited orders with suppliers and provided status to project stakeholder

<p>Summary of Work Experience (Cont'd)</p>	<ul style="list-style-type: none"> ▪ Negotiated cost and deliverables with suppliers ▪ Assisted in development of CO2 Liquefaction Plant Design Specification Manual ▪ OJT – Reading P&ID, Mass Flow, and PFD <p>1979 – 2006 - Federal Reserve Bank of Dallas Manager, High-Speed Currency Processing Analyst, Treasury Securities Technical Coordinator, Securities Various other roles and responsibilities</p> <p>1975 – 1979 - United States Marine Corps Honorable Discharge</p>
<p>Languages</p>	<p>English, Conversational Spanish</p>
<p>Education</p>	<p>1979 – 1981 University of Texas, El Paso Basic course work – no degree</p>

Quarry Commission Rolling Attendance

Commissioner	01/7/19 Special Meeting	1/14/19 Regular Meeting	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
Shands	P	P	P	P	P	P	P	P	
Barucky	P	P	P	P	P	P	P	P	
DuBois	A	A	A	P	P	A	P	P	
Haddad	P	P	P	U	U	P	U	P	
Holloway	P	P	P	A	P	P	P	A	
Holly	P	P	P	P	A	P	P	P	
Mudge	E	P	P	P	P	P	P	P	

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

Quarry Commission's Attendance at City Council Regular Meetings

Commissioners	1/2/20 Regular Meeting												Total for year
Shands													0
Barucky													0
DuBois													0
Haddad													0
Holloway													0
Holly	P												1
Mudge													0
	Met requirements		Not met requirements										

Future Agenda Items

Quarry Commission

March 9, 2020

Regular Meeting

- 12 days before Meeting (2/26/20) Commission and Staff items are due
- 10 days before Meeting (2/28/20) City Administrator and Chair review agenda. City Attorney is sent the agenda for approval.
- 7 days before Meeting (3/02/20) 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 (3/05/20) Post Agenda Packet to City Website
- 3 days before Meeting (3/06/20) (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 01-13-20

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