By Senator Diaz

	36-00884A-19 20191356
1	A bill to be entitled
2	An act relating to construction materials mining
3	activities; amending s. 552.30, F.S.; requiring that
4	the statewide ground vibration limits established by
5	the State Fire Marshal be based on frequency and
6	particle velocity; requiring the State Fire Marshal to
7	establish certain regulations relating to blasting
8	operations conducted in connection with construction
9	materials mining activities; requiring persons
10	permitted by the State Fire Marshal to submit written
11	notification relating to construction materials mining
12	activities to certain counties and municipalities;
13	requiring the State Fire Marshal to create a form for
14	complaint reports regarding blasting operations
15	conducted in connection with construction materials
16	mining activities; requiring that complaint reports be
17	submitted to the State Fire Marshal and include
18	certain information; providing requirements relating
19	to training and continuing education for persons
20	engaged in construction materials mining activities;
21	requiring that certain mining permits issued on or
22	after a specified date be issued for a period of 5
23	years; requiring the State Fire Marshal to suspend
24	mining permits issued on or after a specified date
25	under certain circumstances; requiring the State Fire
26	Marshal to conduct or contract for a report on the
27	feasibility of conducting a specified study; requiring
28	the State Fire Marshal to submit a report to the
29	Legislature by a specified date; requiring that the

Page 1 of 6

	36-00884A-19 20191356
30	report contain certain information; providing an
31	effective date.
32	
33	Be It Enacted by the Legislature of the State of Florida:
34	
35	Section 1. Subsections (1) and (2) of section 552.30,
36	Florida Statutes, are amended, and subsections (4) through (9)
37	are added to that section, to read:
38	552.30 Construction materials mining activities
39	(1) Notwithstanding the provisions of s. 552.25, the State
40	Fire Marshal <u>has</u> shall have the sole and exclusive authority to
41	promulgate standards, limits, and regulations regarding the use
42	of explosives in conjunction with construction materials mining
43	activities. Such authority to regulate use <u>includes</u> shall
44	include, directly or indirectly, the operation, handling,
45	licensure, or permitting of explosives and setting standards or
46	limits, including, but not limited to, ground vibration,
47	frequency, intensity, blast pattern, air blast and time, date,
48	occurrence, and notice restrictions. As used in this section,
49	the term "construction materials mining activities" means the
50	extraction of limestone and sand suitable for production of
51	construction aggregates, sand, cement, and road base materials
52	for shipment offsite by any person or company primarily engaged
53	in the commercial mining of any such natural resources.
54	(2) The State Fire Marshal shall establish statewide ground
55	vibration limits, based on both frequency and particle velocity,
56	for construction materials mining activities which conform to
57	those limits established in the United States Bureau of Mines,
58	Report of Investigations 8507, Appendix B - Alternative Blasting

Page 2 of 6

	36-00884A-19 20191356
59	Level Criteria (Figure B-1). The State Fire Marshal may , at his
60	or her sole discretion, by rule or formal agreement, delegate to
61	the applicable municipality or county, the monitoring and
62	enforcement components of regulations governing the use of
63	explosives, as recognized in this section, by construction
64	materials mining activities. Such delegation may include the
65	assessment and collection of reasonable fees by the municipality
66	or county for the purpose of carrying out the delegated
67	activities.
68	(4) The State Fire Marshal shall establish statewide
69	regulations that require each blasting operation conducted in
70	connection with construction materials mining activities to use
71	a seismograph to monitor each blast to ensure compliance with
72	such regulations. The regulations also must:
73	(a) Require the use of seismographs to conform to the
74	standards in ISEE Field Practice Guidelines for Blasting
75	Seismographs (2015);
76	(b) Ensure that, for each blasting operation, a seismograph
77	is situated at the nearest residence, determined using GPS
78	technology;
79	(c) Require that, for each vibration record, an electronic
80	report of the vibration record, along with the raw data from the
81	seismograph, be made available to the State Fire Marshal in a
82	manner allowing for the complete analysis of the waveform; and
83	(d) Require that the following are measured and reported
84	for each blasting operation:
85	1. Frequency and particle velocity, including identifying
86	the method used for determining the frequency; and
87	2. GPS coordinates of both seismograph locations and blast

Page 3 of 6

	36-00884A-19 20191356
88	locations.
89	(5) Each person permitted by the State Fire Marshal to
90	engage in construction materials mining activities must submit
91	written notification of the construction materials mining
92	activities to the counties and municipalities in which the
93	construction materials mining activities are to be conducted,
94	and to any counties or municipalities adjacent to such counties
95	and municipalities. Any notice required to be given to counties
96	and municipalities in which construction materials mining
97	activities are to be conducted also must be given to adjacent
98	counties and municipalities.
99	(6) The State Fire Marshal shall create a standard form for
100	the reporting of complaints regarding blasting operations for
101	construction materials mining activities. Complaint reports must
102	be submitted to the State Fire Marshal. Each complaint report
103	must include all of the following:
104	(a) A unique tracking number.
105	(b) The construction materials mining operation that is the
106	subject of the complaint.
107	(c) The mining activities report for the specific blast
108	event.
109	(d) The address of the complainant.
110	(e) The date and time the blast occurred.
111	(f) The estimated duration of the blast.
112	(g) A description of what the complainant physically felt.
113	(h) The contact information of the complainant.
114	(i) A brief description of any property damage.
115	(j) Any applicable photographs.
116	(7) The State Fire Marshal shall require training and

Page 4 of 6

	36-00884A-19 20191356
117	continuing education for blasters licensed under s. 552.091 or
118	seismograph operators who conduct blasting operations in
119	connection with construction materials mining activities.
120	Inspectors for the State Fire Marshal who inspect blasting
121	operations connected with construction materials mining
122	activities shall attend a blaster training course offered by the
123	Office of Surface Mining Reclamation and Enforcement of the
124	United States Department of the Interior.
125	(8) Mining permits issued by the State Fire Marshal for
126	construction materials mining activities must be issued for a
127	period of 5 years. The State Fire Marshal shall suspend a mining
128	permit if three or more violations of the permit occur within a
129	1-year period. This subsection does not apply to mining permits
130	issued by the State Fire Marshal before July 1, 2019.
131	(9) The State Fire Marshal shall prepare or contract for
132	preparation of a report on the feasibility of conducting a
133	Florida-specific study, comparable to the United States Bureau
134	of Mines, Report of Investigations 8507, of structural response
135	to and damage produced by ground vibrations from blasting
136	operations conducted in connection with construction materials
137	mining activities in this state. If conducted, such report must
138	include recommendations as to whether the State Fire Marshal
139	should conduct or contract for the potential study. The State
140	Fire Marshal shall submit the report to the Legislature by
141	January 1, 2020.
142	(a) The report also must:
143	1. Recommend the process for conducting the study;
144	2. Identify potential locations for test sites;
145	3. Address the feasibility of calibrating seismographs to
•	

Page 5 of 6

	36-00884A-19 20191356_
146	monitor blasting vibrations with frequencies below 2 hertz;
147	4. Identify methodologies to be used for properly measuring
148	ground vibration, frequency, impacts to structures, and other
149	considerations comparable to those in the United States Bureau
150	of Mines, Report of Investigations 8507; and
151	5. Include cost estimates for such a study.
152	(b) If a study is conducted based on the report from the
153	State Fire Marshal, the study must include:
154	1. The collection of data from test structures, including
155	residential structures within blasting areas in this state, to
156	compare that data with data for control groups that are outside
157	the blasting areas;
158	2. Analysis of the impacts of ground vibrations on
159	residents of this state, including physical and psychological
160	impacts; and
161	3. The determination of seismographic specifications that
162	apply to this state's unique blast vibration characteristics.
163	Section 2. This act shall take effect July 1, 2019.