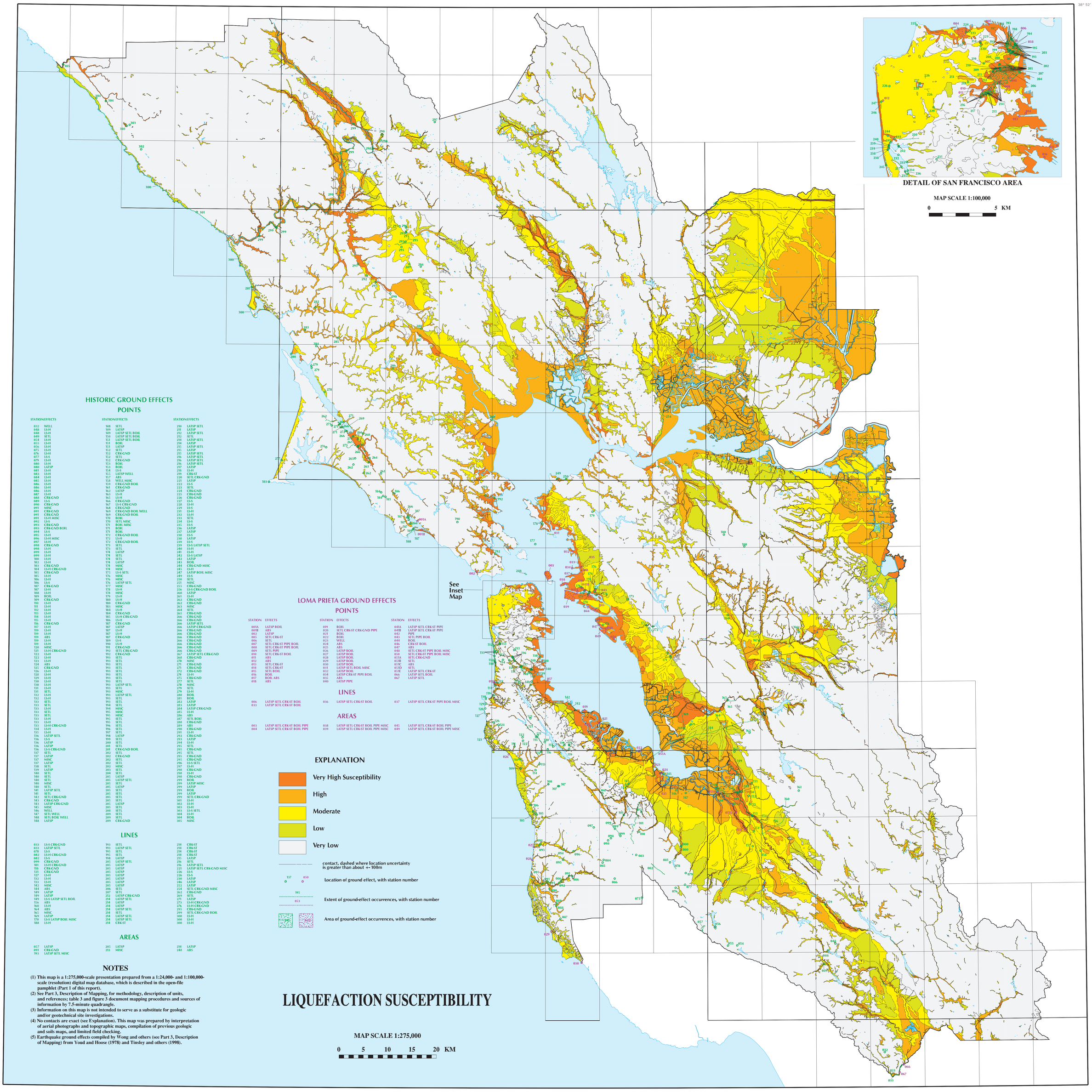
U.S. DEPARTMENT OF THE INTERIOR
U.S. GEOLOGICAL SURVEY

OPEN-FILE REPORT 00-444
SHEET 2 (of 2)



HISTORIC GROUND EFFECTS POINTS

STATION	EFFECTS
032	WELL
048	LS-H
048	LS-H
049	SETL
054	LS-H
055	LS-H
056	LS-H
075	LS-H
076	LS-H
077	LS-S
079	LS-H
080	LS-H
080	LATSP
081	LS-H
083	LS-H
084	LS-H
085	LS-H
086	LS-H
086	LS-H
086	LS-H
087	LS-H
088	CRK-GND
089	LS-S
090	CRK-GND
091	MISC
091	CRK-GND
091	CRK-GND
091	LS-H MISC
092	LS-S
093	CRK-GND
093	CRK-GND BOIL
094	LS-S
095	LS-H
096	LS-H MISC
097	LS-H
098	CRK-GND
098	LS-H
099	LS-H
099	LS-H
100	LS-H
102	LS-H
103	CRK-GND
104	LS-H CRK-GND
105	CRK-GND
105	LS-H
106	LS-H
106	LS-S
107	CRK-GND
107	LS-H
108	LS-H
109	BOIL
109	CRK-GND
110	LS-H
111	LS-H
112	LS-H
113	LS-H
114	LS-H
115	LS-H
116	CRK-GND
117	LS-H
119	LS-H
119	LS-H
119	ABS
119	LS-H
119	LS-H
120	MISC
121	LS-H CRK-GND
122	LS-H
122	LS-H
123	LS-H
124	ABS
125	CRK-GND
126	LS-H
128	LS-H
129	LS-H
130	LS-H
130	LS-H
131	LS-H
131	SETL
132	LS-H
132	LS-H
133	SETL
133	SETL
133	LS-H
133	SETL
133	SETL
133	LS-H
133	LS-H
133	LS-H CRK-GND
134	LS-H
135	LS-H
136	LATSP SETL
136	LS-S
136	LATSP
136	LATSP
136	LS-S CRK-GND
137	SETL
137	LATSP
137	MISC
137	LATSP
138	SETL
139	LATSP
140	SETL
140	SETL
140	SETL
140	MISC
140	SETL
141	LATSP SETL
141	SETL
142	SETL CRK-GND
143	CRK-GND
143	LATSP CRK-GND
145	MISC
146	WELL
147	SETL WELL
148	SETL BOIL WELL
148	LATSP

STATION	EFFECTS
148	SETL
149	LATSP
149	LATSP SETL BOIL
150	LATSP SETL BOIL
151	LATSP SETL BOIL
151	BOIL
151	LATSP
151	LATSP SETL BOIL
151	BOIL
151	LATSP
152	SETL
152	CRK-GND
152	SETL
152	CRK-GND
152	CRK-GND
153	BOIL
153	BOIL
154	LS-S
155	LATSP WELL
157	ABS
158	WELL MISC
159	CRK-GND BOIL
161	CRK-GND
162	LATSP
163	LS-H
165	LS-H
166	CRK-GND
167	LS-S CRK-GND
168	CRK-GND
169	CRK-GND BOIL WELL
169	CRK-GND BOIL
170	BOIL
170	SETL MISC
171	BOIL MISC
171	BOIL
171	BOIL
172	CRK-GND BOIL
172	LS-H
172	CRK-GND BOIL
173	SETL
173	SETL
174	LATSP
174	SETL
174	SETL
174	LATSP
174	MISC
174	MISC
175	LS-S SETL
176	MISC
176	MISC
176	LATSP SETL
177	MISC
178	LS-H
178	MISC
179	LS-H
180	LS-H
180	CRK-GND
183	MISC
184	LS-H
184	CRK-GND
185	LS-H CRK-GND
186	LS-H
187	CRK-GND
187	LATSP
187	LS-H
187	LS-H
187	CRK-GND
189	LS-S
190	LS-H
191	CRK-GND
192	SETL CRK-GND
192	CRK-GND
193	SETL
193	SETL
193	SETL
193	SETL
193	SETL
193	SETL
193	LATSP SETL
193	SETL
193	MISC
193	LATSP SETL
193	SETL
193	SETL
194	SETL
194	MISC
195	MISC
195	MISC
195	SETL
195	SETL
196	SETL
196	SETL
197	SETL
198	LATSP
199	SETL
200	SETL
201	SETL
201	CRK-GND BOIL
202	SETL
202	CRK-GND
202	SETL
202	SETL
202	MISC
203	SETL
204	SETL
205	LATSP
205	LATSP SETL
205	SETL
205	LATSP
205	SETL
205	SETL
205	SETL
205	LATSP
205	SETL
208	SETL
209	SETL
209	CRK-GND

STATION	EFFECTS
210	LATSP SETL
211	LATSP
212	LATSP SETL
212	SETL
214	LATSP SETL
214	LATSP
215	LATSP SETL
215	LATSP
215	LATSP SETL
216	LATSP SETL
216	LATSP SETL
217	LATSP
218	LS-H
219	CRK-ST
220	SETL CRK-GND
221	LATSP
222	LS-S
223	SETL
224	CRK-GND
225	CRK-GND
226	CRK-GND
227	LS-S
228	LS-H
229	LS-S
231	LS-H
232	LS-H
233	SETL
234	LS-S
235	LS-S
236	LATSP
237	LATSP
238	LS-S
238	LATSP
239	LS-S
239	LS-S LATSP SETL
240	LS-H
241	LS-H
242	LS-S LATSP
242	LATSP
243	BOIL
244	CRK-GND MISC
245	LS-H
247	LATSP BOIL MISC
249	LS-S
250	SETL
251	MISC
255	CRK-GND
256	LS-S CRK-GND BOIL
260	LATSP
261	LS-H
262	CRK-GND
262	CRK-GND
263	MISC
264	SETL
265	CRK-GND
266	CRK-GND
266	CRK-GND
266	LATSP SETL
266	LATSP CRK-GND
266	CRK-GND
266	CRK-GND
266	CRK-GND
266	CRK-GND
266	CRK-GND
266	CRK-GND
266	CRK-GND
267	LATSP SETL CRK-GND
268	CRK-GND
270	MISC
271	CRK-GND
271	CRK-GND
272	CRK-GND
274	LS-H
275	CRK-GND
277	SETL
278	MISC
279	SETL
279	LS-H
280	BOIL
281	BOIL
282	LATSP
283	LATSP
284	LATSP CRK-GND
285	LS-H
286	ABS
287	SETL BOIL
288	CRK-GND
289	ABS
290	CRK-GND
291	LS-H
292	CRK-GND
293	LATSP
294	LS-H
295	SETL
295	CRK-GND
295	SETL
295	CRK-GND
295	CRK-GND
296	LS-S SETL
297	LS-H
298	CRK-GND
298	LS-H
298	CRK-GND
299	BOIL
299	LATSP MISC
299	LATSP
299	BOIL
299	LATSP
299	SETL CRK-GND
301	LS-H
302	LS-H
303	LS-H
303	LS-S SETL
304	LS-H
304	BOIL
305	MISC

LINES

STATION	EFFECTS
033	LS-S CRK-GND
033	LATSP SETL
078	LS-S
082	LS-H CRK-GND
082	LS-S
099	CRK-GND
101	LS-H CRK-GND
118	CRK-GND
121	CRK-GND
127	LS-H
132	LS-H
133	LS-H
142	MISC
144	ABS
149	LATSP
149	LATSP
149	LS-S LATSP SETL BOIL
156	ABS
160	LS-H
164	ABS
165	MISC
169	LATSP
170	LS-S LATSP BOIL MISC
188	LS-H

STATION	EFFECTS
193	SETL
193	LATSP SETL
195	SETL
195	SETL
198	LATSP
205	LATSP SETL
205	LATSP
205	LATSP
205	LATSP
205	LATSP
205	LATSP
205	LATSP
205	LATSP
206	SETL
207	SETL
212	LATSP CRK-GND
214	LATSP SETL
214	LATSP
214	LATSP
214	LATSP SETL
214	LATSP SETL
214	CRK-ST

STATION	EFFECTS
214	CRK-ST
214	CRK-ST
214	CRK-ST
214	CRK-ST
215	LATSP
216	SETL
216	LATSP SETL
221	LATSP SETL CRK-GND MISC
226	LS-S
230	LS-S
230	LATSP
246	LATSP
252	LATSP
254	SETL CRK-GND MISC
262	CRK-GND
269	SETL
271	LATSP
273	LS-H CRK-GND
276	LS-H CRK-GND
295	CRK-GND
299	SETL CRK-GND BOIL
300	LS-H
300	LS-H

AREAS

STATION	EFFECTS
057	LATSP
091	CRK-GND
193	LATSP SETL MISC

STATION	EFFECTS
205	LATSP
213	MISC

STATION	EFFECTS
214	LATSP
248	ABS

LOMA PRIETA GROUND EFFECTS POINTS

STATION	EFFECTS
001A	LATSP BOIL
001B	ABS
002	LATSP
005	SETL CRK-ST
006	SETL
007	SETL CRK-ST PIPE BOIL
008	SETL CRK-ST PIPE BOIL
009	SETL PIPE
010	SETL CRK-ST BOIL
011	ABS
012	ABS
013	SETL CRK-ST
014	SETL CRK-ST
015	SETL BOIL
016	BOIL
017	BOIL ABS
018	ABS

STATION	EFFECTS
019	BOIL
020	SETL CRK-ST CRK-GND PIPE
021	BOIL
022	BOIL
023	WELL
024	ABS
025	ABS
026	LATSP BOIL
027	LATSP BOIL
028	LATSP BOIL
029	LATSP BOIL
030	LATSP BOIL
031	LATSP SETL BOIL MISC
032	LATSP BOIL
034	LATSP CRK-ST PIPE BOIL
035	ABS
040	LATSP PIPE

STATION	EFFECTS
041A	LATSP SETL CRK-ST PIPE
041B	LATSP SETL CRK-ST PIPE
042	PIPE
043	SETL PIPE BOIL
044	BOIL
046	CRK-ST BOIL
047	ABS
048	SETL CRK-ST PIPE BOIL MISC
050	SETL CRK-ST PIPE BOIL MISC
051A	SETL CRK-GND
051B	SETL
051C	ABS
051D	SETL
051E	LATSP SETL CRK-ST
066	LATSP SETL BOIL
067	LATSP SETL

LINES

STATION	EFFECTS
006	LATSP SETL CRK-ST BOIL
033	LATSP SETL CRK-ST BOIL
036	LATSP SETL CRK-ST BOIL
037	LATSP SETL CRK-ST PIPE BOIL MISC

AREAS

STATION	EFFECTS
003	LATSP SETL CRK-ST BOIL PIPE
004	LATSP SETL CRK-ST BOIL PIPE
038	LATSP SETL CRK-ST BOIL PIPE MISC
039	LATSP SETL CRK-ST BOIL PIPE MISC
045	LATSP SETL CRK-ST BOIL PIPE
049	LATSP SETL CRK-ST BOIL PIPE MISC

EXPLANATION

- Very High Susceptibility
- High
- Moderate
- Low
- Very Low
- contact, dashed where location uncertainty is greater than about +- 100m
- 137 050 — Location of ground effect, with station number
- 195 — Extent of ground-effect occurrences, with station number
- 053 — Area of ground-effect occurrences, with station number

NOTES

(1) This map is a 1:275,000-scale presentation prepared from a 1:24,000- and 1:100,000-scale (resolution) digital map database, which is described in the open-file pamphlet (Part 1 of this report).
(2) See Part 3, Description of Mapping, for methodology, description of units, and references; table 3 and figure 3 document mapping procedures and sources of information by 7.5-minute quadrangle.
(3) Information on this map is not intended to serve as a substitute for geologic and/or geotechnical site investigations.
(4) No contacts are exact (see Explanation). This map was prepared by interpretation of aerial photographs and topographic maps, compilation of previous geologic and soils maps, and limited field checking.
(5) Earthquake ground effects compiled by Wong and others (see Part 3, Description of Mapping) from Youd and Hoose (1978) and Tinsley and others (1998).

LIQUEFACTION SUSCEPTIBILITY

Map Projection: UTM zone 10

PRELIMINARY MAPS OF QUATERNARY DEPOSITS AND LIQUEFACTION SUSCEPTIBILITY, NINE-COUNTY SAN FRANCISCO BAY REGION, CALIFORNIA

Geology by
Keith L. Knudsen, Janet M. Sowers, Robert C. Witter, Carl M. Wentworth, and Edward J. Helley

Digital Database by
Carl M. Wentworth, Robert S. Nicholson, Heather M. Wright, and Katherine M. Brown

2000

This report is preliminary and has not been reviewed for conformity with U.S. Geological Survey editorial standards or with the North American Stratigraphic Code. Any use of trade, product, or firm names is for descriptive purposes only and does not imply endorsement by the U.S. Government.

This map was printed on an electronic plotter directly from digital files. Dimensional calibration may vary between electronic plotters and between X and Y directions on the same plotter, and paper may change size due to atmospheric conditions; therefore, scale and preportions may not be true on plots of this map.

For sale by U.S. Geological Survey, Information Services, Box 25286, Federal Center, Denver, CO 80225, 1-888-ASK-USGS