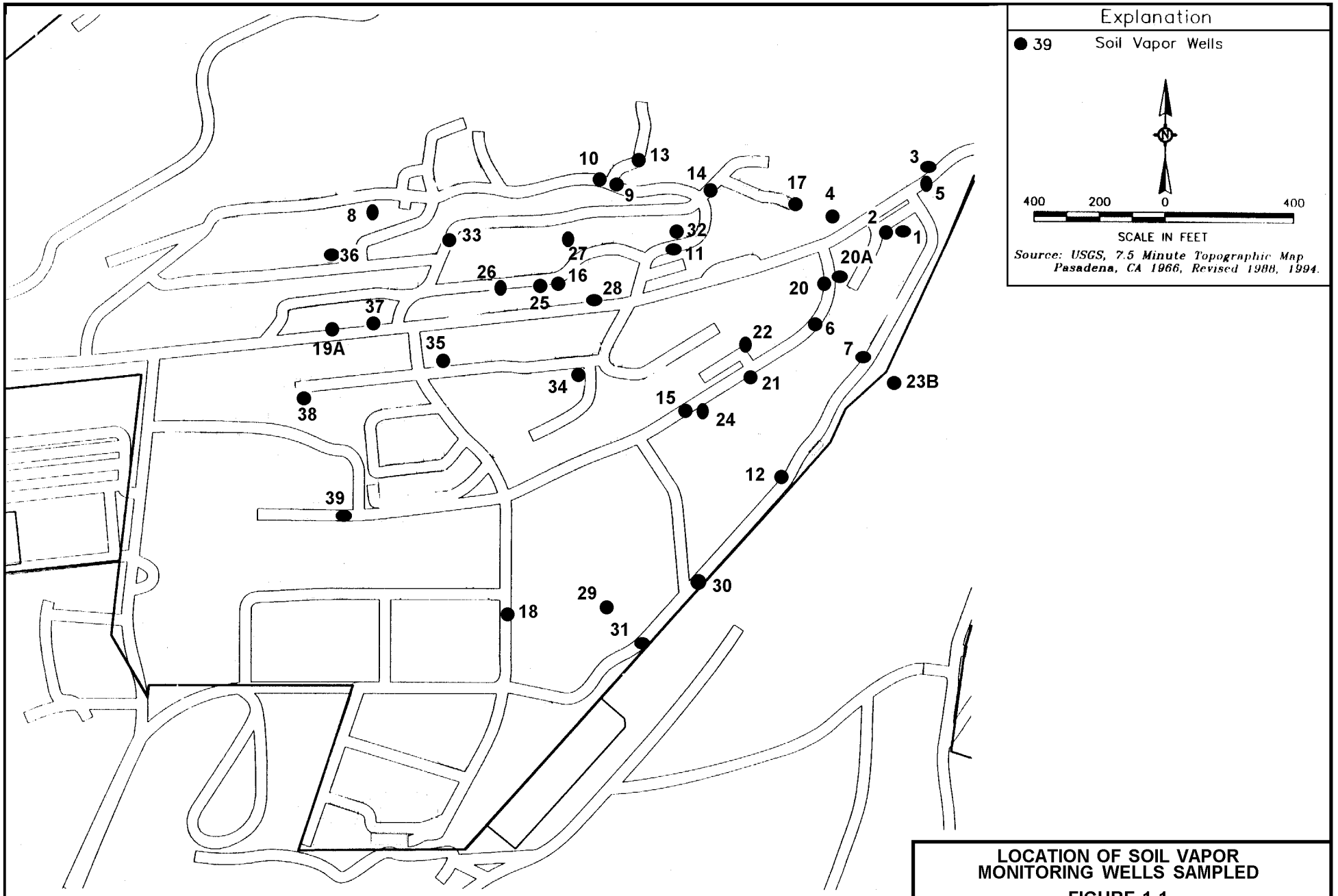
FIGURES



LOCATION OF SOIL VAPOR MONITORING WELLS SAMPLED

FIGURE 1-1

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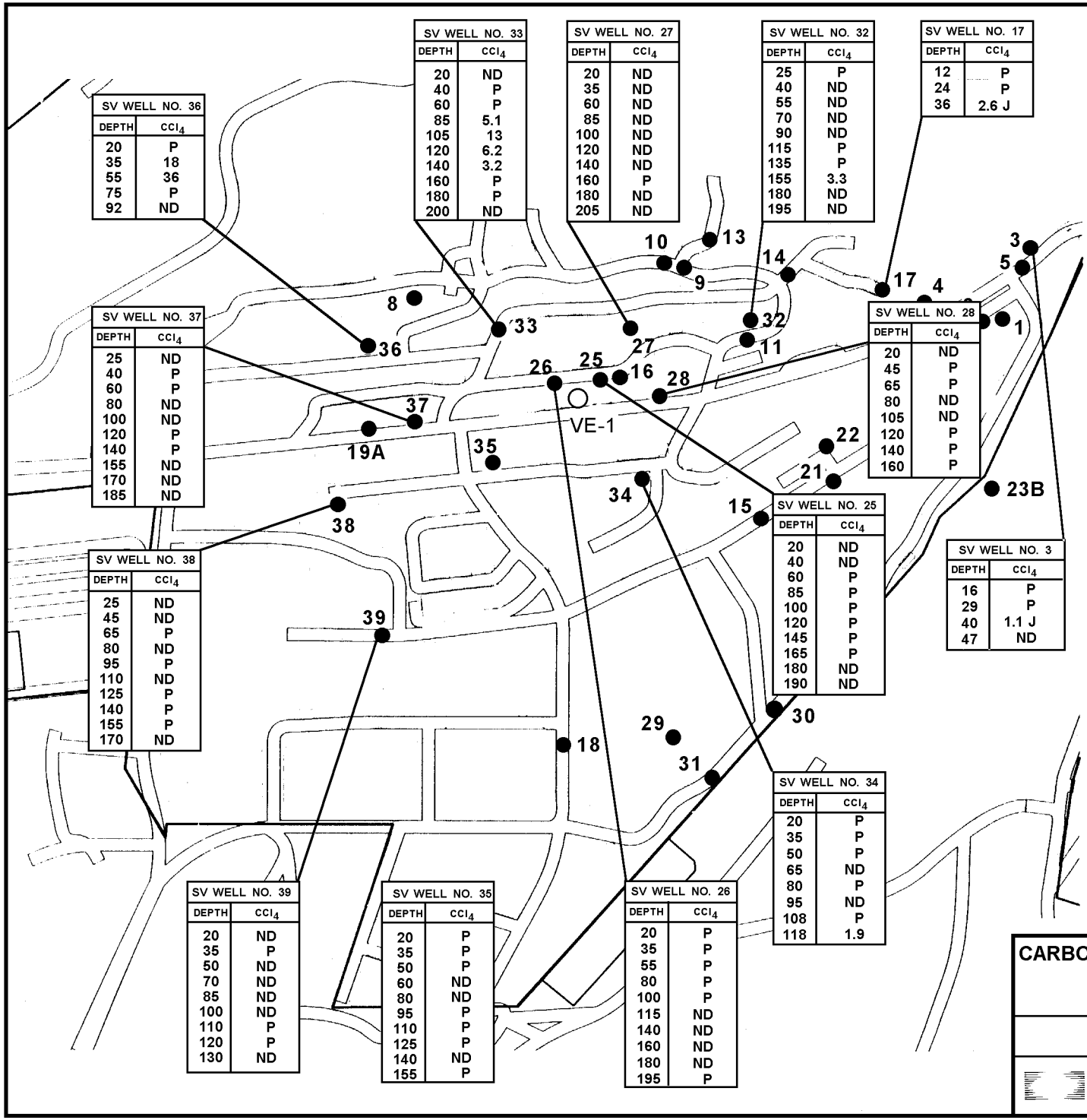
DO No.: 0048



SV WELL NO. 33	
DEPTH	CCl_4
20	ND
40	P
60	P
85	5.1
105	13
120	6.2
140	3.2
160	P
180	P
200	ND

SV WELL NO. 27	
DEPTH	CCl_4
20	ND
35	ND
60	ND
85	ND
100	ND
120	ND
140	ND
160	P
180	ND
205	ND

SV WELL NO. 32	
DEPTH	CCl_4
25	P
40	ND
55	ND
70	ND
90	ND
115	P
135	P
155	3.3
180	ND
195	ND

SV WELL NO. 17	
DEPTH	CCl_4
12	P
24	P
36	2.6 J

SV WELL NO. 36	
DEPTH	CCl_4
20	P
35	18
55	36
75	P
92	ND

SV WELL NO. 37	
DEPTH	CCl_4
25	ND
40	P
60	P
80	ND
100	ND
120	P
140	P
155	ND
170	ND
185	ND

SV WELL NO. 28	
DEPTH	CCl_4
20	ND
45	P
65	P
80	ND
105	ND
120	P
140	P
160	P

SV WELL NO. 38	
DEPTH	CCl_4
25	ND
45	ND
65	P
80	ND
95	P
110	ND
125	P
140	P
155	P
170	ND

SV WELL NO. 25	
DEPTH	CCl_4
20	ND
40	ND
60	P
85	P
100	P
120	P
145	P
165	P
180	ND
190	ND

SV WELL NO. 3	
DEPTH	CCl_4
16	P
29	P
40	1.1 J
47	ND

SV WELL NO. 34	
DEPTH	CCl_4
20	P
35	P
50	P
65	ND
80	P
95	ND
108	P
118	1.9

SV WELL NO. 39	
DEPTH	CCl_4
20	ND
35	P
50	ND
70	ND
85	ND
100	ND
110	P
120	P
130	ND

SV WELL NO. 35	
DEPTH	CCl_4
20	P
35	P
50	P
60	ND
80	ND
95	P
110	P
125	P
140	ND
155	P

SV WELL NO. 26	
DEPTH	CCl_4
20	P
35	P
55	P
80	P
100	P
115	ND
140	ND
160	ND
180	ND
195	P

Explanation

● 39	Soil Vapor Wells Sampled
○ VE-1	Vapor Extraction Well
CCl_4	Carbon Tetrachloride
ND	Non-Detect @ Laboratory Detection Limit of 1.0 $\mu g/L$-Vapor
P	Sample Port Plugged: No Sample Collected
W	Sample Port Waterlogged; No Sample Collected

NOTE:

Concentrations in $\mu g/L$-Vapor

400 200 0 400

SCALE IN FEET

Source: USGS, 7.5 Minute Topographic Map Pasadena, CA 1966, Revised 1988, 1994.

CARBON TETRACHLORIDE CONCENTRATIONS AT DEPTH

FIGURE 3-1

Jet Propulsion Laboratory
Pasadena, California

GEOFON INCORPORATED

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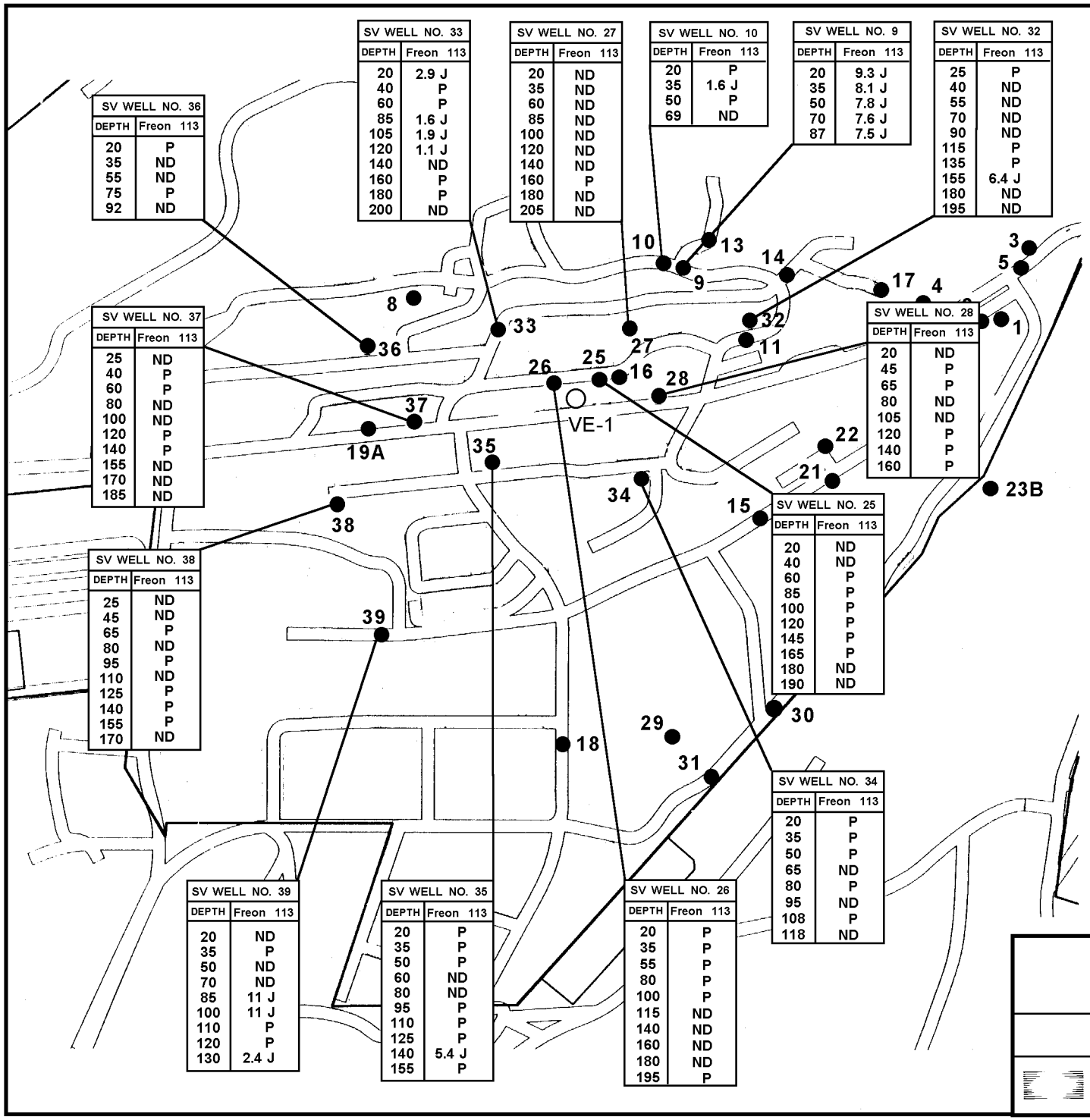
Contract No.: N68711-97-D-8702
DO No.: 0048



SV WELL NO. 36

DEPTH	Freon 113
20	P
35	ND
55	ND
75	P
92	ND

SV WELL NO. 33

DEPTH	Freon 113
20	2.9 J
40	P
60	P
85	1.6 J
105	1.9 J
120	1.1 J
140	ND
160	P
180	P
200	ND

SV WELL NO. 27

DEPTH	Freon 113
20	ND
35	ND
60	ND
85	ND
100	ND
120	ND
140	ND
160	P
180	ND
205	ND

SV WELL NO. 10

DEPTH	Freon 113
20	P
35	1.6 J
50	P
69	ND

SV WELL NO. 9

DEPTH	Freon 113
20	9.3 J
35	8.1 J
50	7.8 J
70	7.6 J
87	7.5 J

SV WELL NO. 32

DEPTH	Freon 113
25	P
40	ND
55	ND
70	ND
90	ND
115	P
135	P
155	6.4 J
180	ND
195	ND

SV WELL NO. 37

DEPTH	Freon 113
25	ND
40	P
60	P
80	ND
100	ND
120	P
140	P
155	ND
170	ND
185	ND

SV WELL NO. 28

DEPTH	Freon 113
20	ND
45	P
65	P
80	ND
105	ND
120	P
140	P
160	P

SV WELL NO. 25

DEPTH	Freon 113
20	ND
40	ND
60	P
85	P
100	P
120	P
145	P
165	P
180	ND
190	ND

SV WELL NO. 38

DEPTH	Freon 113
25	ND
45	ND
65	P
80	ND
95	P
110	ND
125	P
140	P
155	P
170	ND

SV WELL NO. 34

DEPTH	Freon 113
20	P
35	P
50	P
65	ND
80	P
95	ND
108	P
118	ND

SV WELL NO. 39

DEPTH	Freon 113
20	ND
35	P
50	ND
70	ND
85	11 J
100	11 J
110	P
120	P
130	2.4 J

SV WELL NO. 35

DEPTH	Freon 113
20	P
35	P
50	P
60	ND
80	ND
95	P
110	P
125	P
140	5.4 J
155	P

SV WELL NO. 26

DEPTH	Freon 113
20	P
35	P
55	P
80	P
100	P
115	ND
140	ND
160	ND
180	ND
195	P

Explanation

● 39	Soil Vapor Wells Sampled
○ VE-1	Vapor Extraction Well
F-113	Freon 113
ND	Non-Detect @ Laboratory Detection Limit of 1.0 μg/L-Vapor
P	Sample Port Plugged: No Sample Collected
W	Sample Port Waterlogged; No Sample Collected

NOTE:

Concentrations in μg/L-Vapor

N

400 200 0 400

SCALE IN FEET

Source: USGS, 7.5 Minute Topographic Map Pasadena, CA 1966, Revised 1988, 1994.

FREON 113 CONCENTRATIONS AT DEPTH

FIGURE 3-2

Jet Propulsion Laboratory
Pasadena, California

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Date: November 2001
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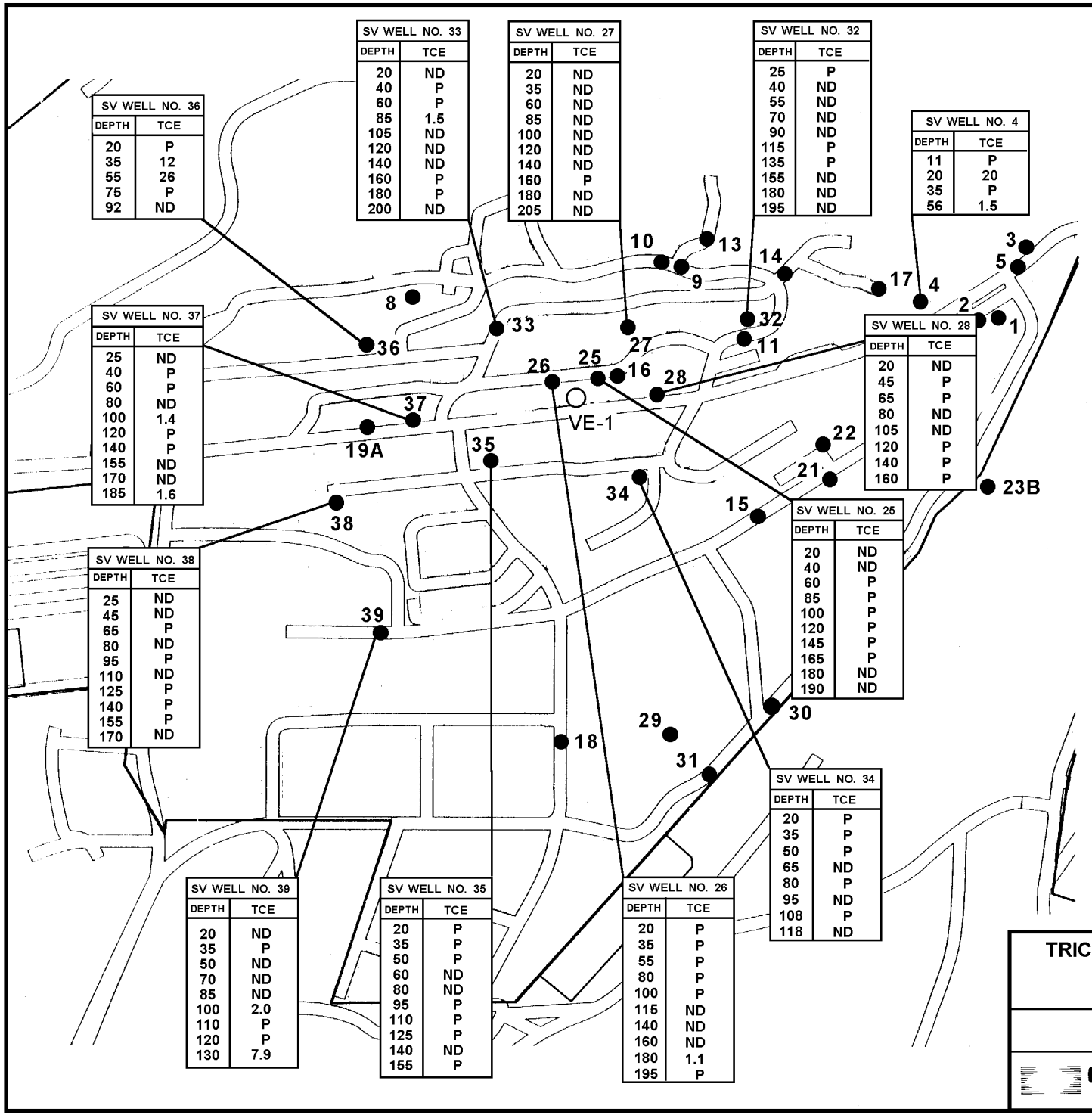
DO No.: 0048



SV WELL NO. 33	
DEPTH	TCE
20	ND
40	P
60	P
85	1.5
105	ND
120	ND
140	ND
160	P
180	P
200	ND

SV WELL NO. 27	
DEPTH	TCE
20	ND
35	ND
60	ND
85	ND
100	ND
120	ND
140	ND
160	P
180	ND
205	ND

SV WELL NO. 32	
DEPTH	TCE
25	P
40	ND
55	ND
70	ND
90	ND
115	P
135	P
155	ND
180	ND
195	ND

SV WELL NO. 4	
DEPTH	TCE
11	P
20	20
35	P
56	1.5

SV WELL NO. 36	
DEPTH	TCE
20	P
35	12
55	26
75	P
92	ND

SV WELL NO. 37	
DEPTH	TCE
25	ND
40	P
60	P
80	ND
100	1.4
120	P
140	P
155	ND
170	ND
185	1.6

SV WELL NO. 28	
DEPTH	TCE
20	ND
45	P
65	P
80	ND
105	ND
120	P
140	P
160	P

SV WELL NO. 38	
DEPTH	TCE
25	ND
45	ND
65	P
80	ND
95	P
110	ND
125	P
140	P
155	P
170	ND

SV WELL NO. 25	
DEPTH	TCE
20	ND
40	ND
60	P
85	P
100	P
120	P
145	P
165	P
180	ND
190	ND

SV WELL NO. 34	
DEPTH	TCE
20	P
35	P
50	P
65	ND
80	P
95	ND
108	P
118	ND

SV WELL NO. 39	
DEPTH	TCE
20	ND
35	P
50	ND
70	ND
85	ND
100	2.0
110	P
120	P
130	7.9

SV WELL NO. 35	
DEPTH	TCE
20	P
35	P
50	P
60	ND
80	ND
95	P
110	P
125	P
140	ND
155	P

SV WELL NO. 26	
DEPTH	TCE
20	P
35	P
55	P
80	P
100	P
115	ND
140	ND
160	ND
180	1.1
195	P

Explanation

● 39	Soil Vapor Wells Sampled
○ VE-1	Vapor Extraction Well
TCE	Trichloroethene
ND	Non-Detect @ Laboratory Detection Limit of 1.0 μg/L-Vapor
P	Sample Port Plugged: No Sample Collected
W	Sample Port Waterlogged; No Sample Collected

NOTE:

Concentrations in μg/L-Vapor

400 200 0 400

SCALE IN FEET

Source: USGS, 7.5 Minute Topographic Map Pasadena, CA 1966, Revised 1988, 1994.

TRICHLOROETHENE CONCENTRATIONS AT DEPTH

FIGURE 3-3

Jet Propulsion Laboratory
Pasadena, California

GEOFON INCORPORATED

Date: November 2001
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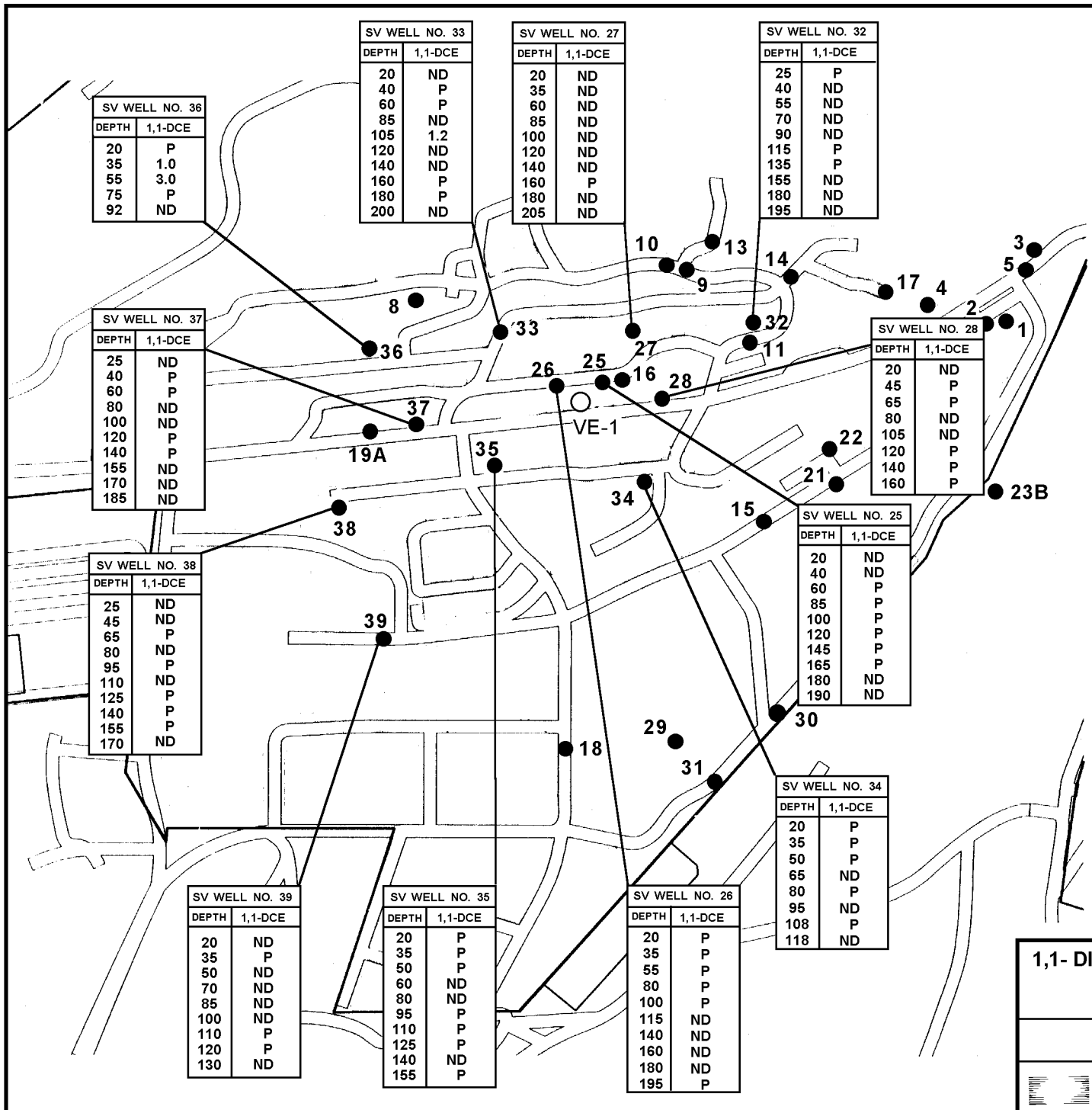
DO No.: 0048



SV WELL NO. 33	
DEPTH	1,1-DCE
20	ND
40	P
60	P
85	ND
105	1.2
120	ND
140	ND
160	P
180	P
200	ND

SV WELL NO. 27	
DEPTH	1,1-DCE
20	ND
35	ND
60	ND
85	ND
100	ND
120	ND
140	ND
160	P
180	ND
205	ND

SV WELL NO. 32	
DEPTH	1,1-DCE
25	P
40	ND
55	ND
70	ND
90	ND
115	P
135	P
155	ND
180	ND
195	ND

SV WELL NO. 36	
DEPTH	1,1-DCE
20	P
35	1.0
55	3.0
75	P
92	ND

SV WELL NO. 37	
DEPTH	1,1-DCE
25	ND
40	P
60	P
80	ND
100	ND
120	P
140	P
155	ND
170	ND
185	ND

SV WELL NO. 28	
DEPTH	1,1-DCE
20	ND
45	P
65	P
80	ND
105	ND
120	P
140	P
160	P

SV WELL NO. 25	
DEPTH	1,1-DCE
20	ND
40	ND
60	P
85	P
100	P
120	P
145	P
165	P
180	ND
190	ND

SV WELL NO. 38	
DEPTH	1,1-DCE
25	ND
45	ND
65	P
80	ND
95	P
110	ND
125	P
140	P
155	P
170	ND

SV WELL NO. 34	
DEPTH	1,1-DCE
20	P
35	P
50	P
65	ND
80	P
95	ND
108	P
118	ND

SV WELL NO. 39	
DEPTH	1,1-DCE
20	ND
35	P
50	ND
70	ND
85	ND
100	ND
110	P
120	P
130	ND

SV WELL NO. 35	
DEPTH	1,1-DCE
20	P
35	P
50	P
60	ND
80	ND
95	P
110	P
125	P
140	ND
155	P

SV WELL NO. 26	
DEPTH	1,1-DCE
20	P
35	P
55	P
80	P
100	P
115	ND
140	ND
160	ND
180	ND
195	P

Explanation

● 39	Soil Vapor Wells Sampled
○ VE-1	Vapor Extraction Well
1,1-DCE	1,1-Dichloroethene
ND	Non-Detect @ Laboratory Detection Limit of 1.0 μg/L-Vapor
P	Sample Port Plugged: No Sample Collected
W	Sample Port Waterlogged; No Sample Collected

NOTE:

Concentrations in μg/L-Vapor

N

400 200 0 400

SCALE IN FEET

Source: USGS, 7.5 Minute Topographic Map Pasadena, CA 1966, Revised 1988, 1994.

1,1- DICHLOROETHENE CONCENTRATIONS AT DEPTH

FIGURE 3-4

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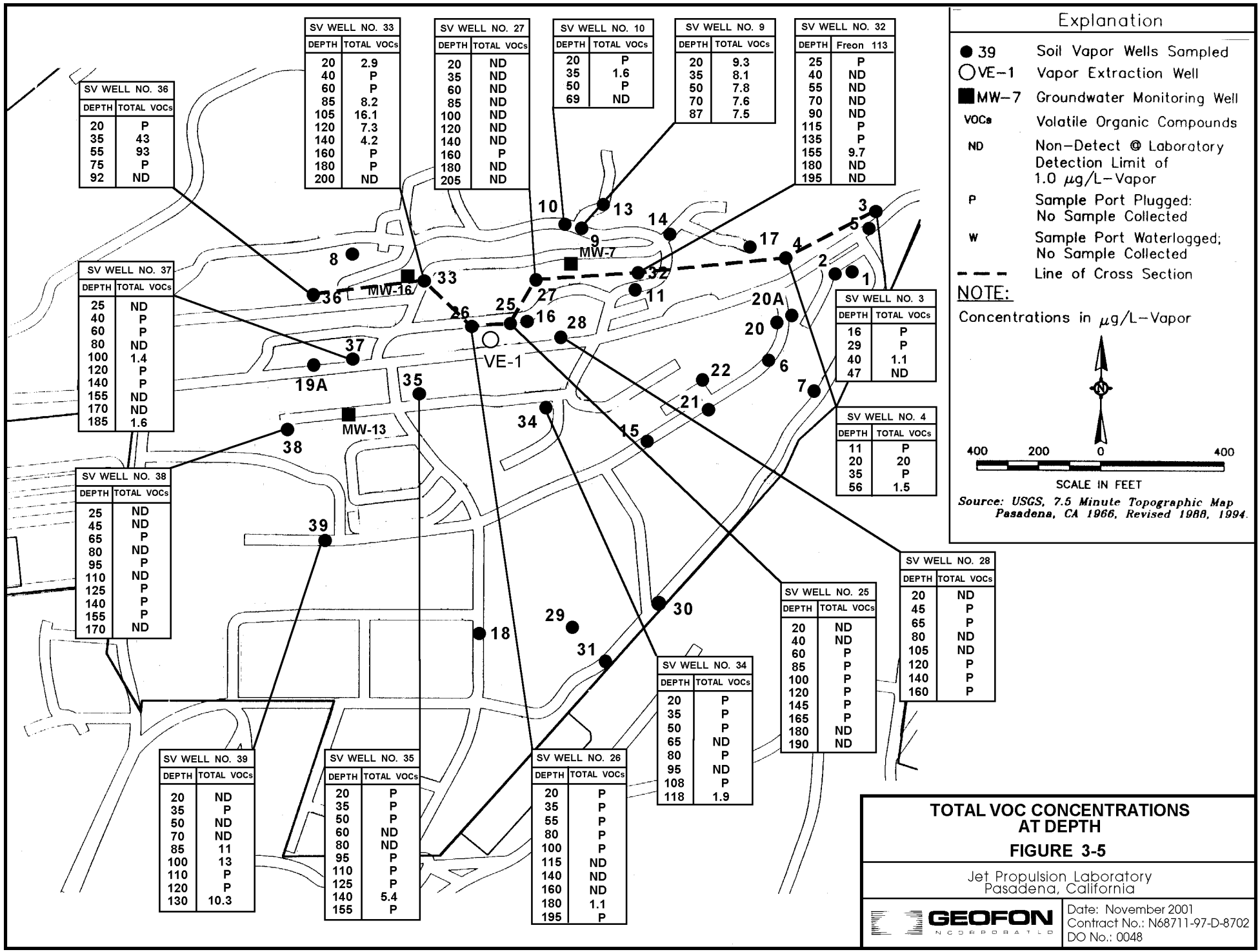

TOTAL VOC CONCENTRATIONS AT DEPTH

FIGURE 3-5

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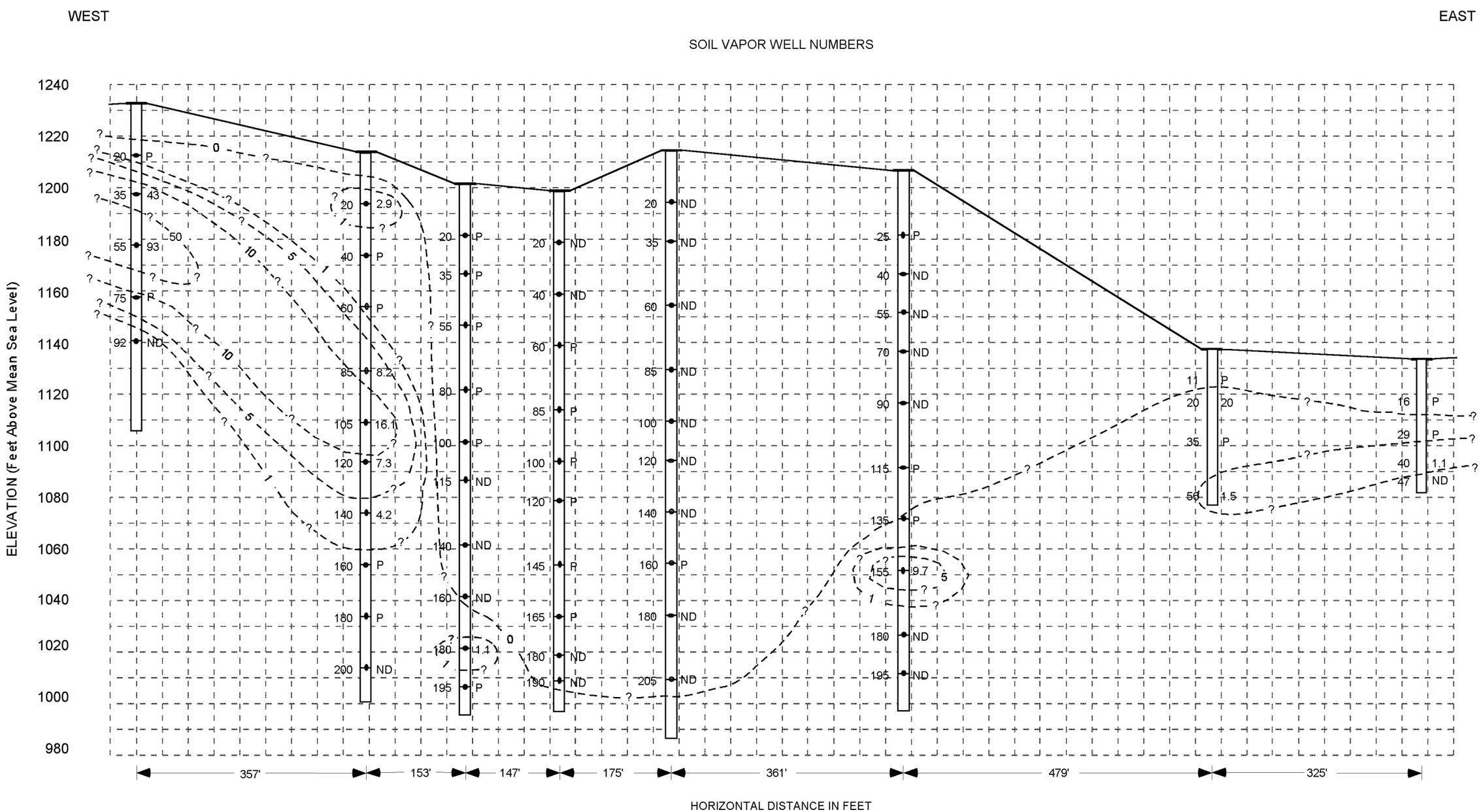
Contract No.: N68711-97-D-8702
DO No.: 0048



Explanation:

- 20 ● Soil Vapor Sample Point and Depth
- 1.5 Concentration of Total VOCs (µg/L - Vapor)
- VOCs Volatile Organic Compounds
- ND Not Detected @ Laboratory Detection Limit of 1.0 µg/L - Vapor
- P Sample Port Plugged: No Sample Collected

Contours:

1. Intervals in 1, 5, 10 and 50 µg/L - Vapor.
2. Queried where spatial control is lacking.

Note:

Location of cross-section is shown on Figure 3-5.

HORIZONTAL SCALE: 1" = 160'

160 80 0 160

VERTICAL SCALE: 1" = 40'

40 20 0 40

ESTIMATED HORIZONTAL AND VERTICAL DISTRIBUTION OF TOTAL VOCs DURING THE SEVENTH PERIODIC SOIL VAPOR SAMPLING EVENT

FIGURE 3-6

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Pasadena, California

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DO No.: 0048