FIGURES

0 .5 mile

Source: USGS 7.5 Minute Topographic Quadrangle, 1966, Revised 1994

Scale 1:24,000

N

FIGURE A.1–1

SITE LOCATION MAP
JET PROPULSION LABORATORY

Jet Propulsion Laboratory
Pasadena, California

FOSTER WHEELER ENVIRONMENTAL CORPORATION

I:\1572-JPL\DWG\UU2\FS99\FIGA.1-1.DWG
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I:\1572-JPL\D\ .2\FS6-00\JPLFA.1-2.DWG
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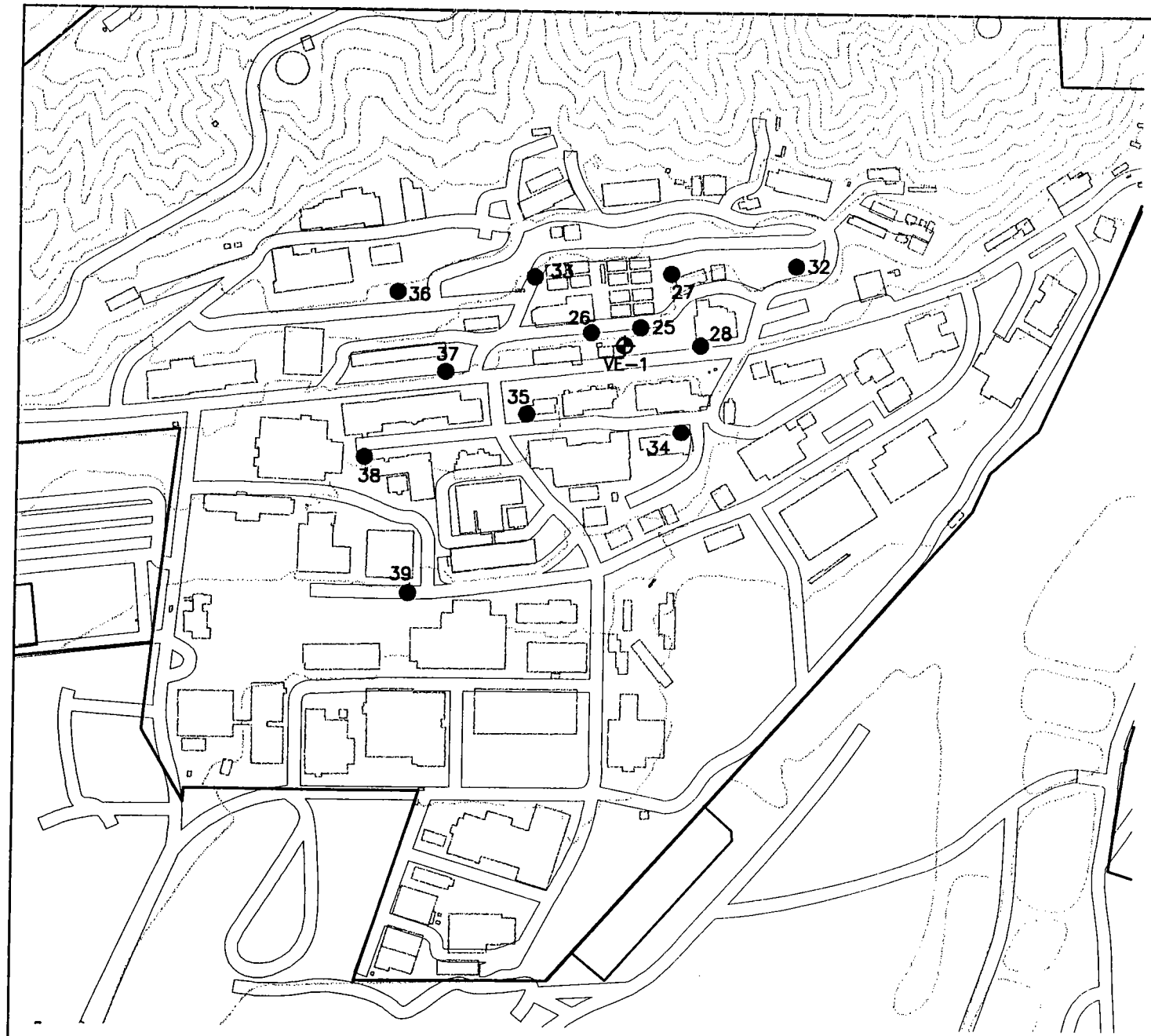


Explanation

- 39 Soil Vapor Wells
- VE-1 Vapor Extraction Well

N

400 200 0 400

SCALE IN FEET

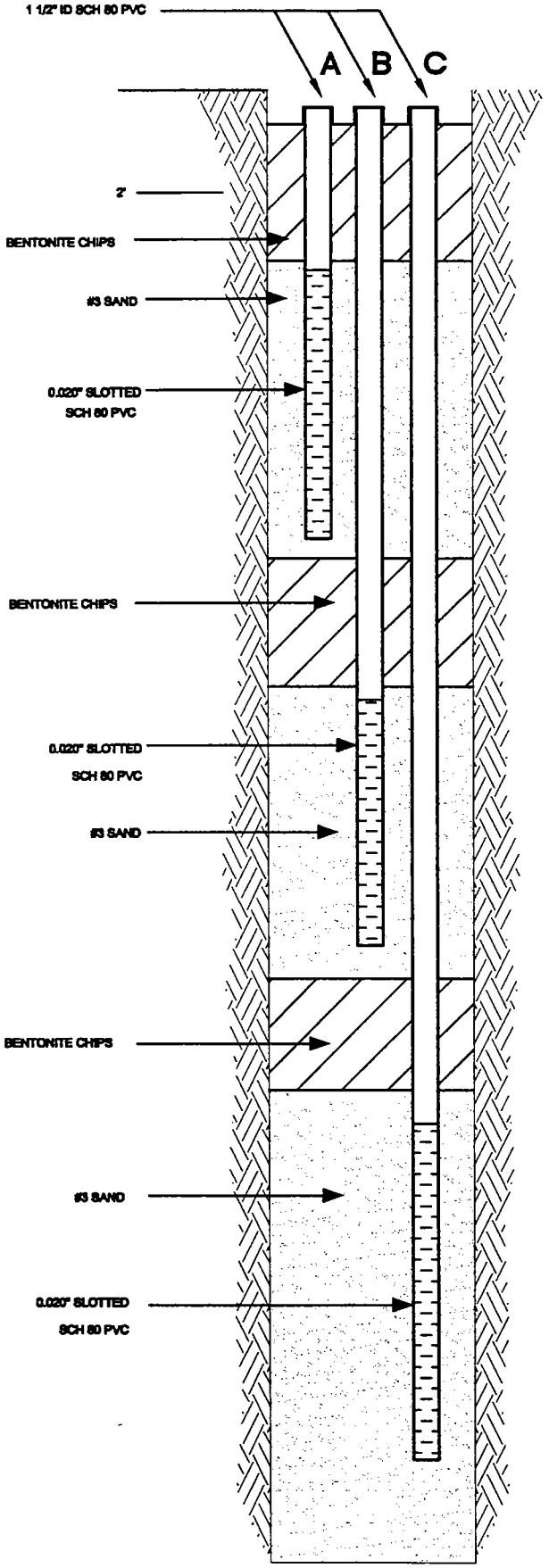
Source: USGS, 7.5 Minute Topographic Map Pasadena, CA 1966, Revised 1988, 1994.

FIGURE A.1-2

SOIL VAPOR WELL LOCATIONS

Jet Propulsion Laboratory
Pasadena, California

FOSTER WHEELER ENVIRONMENTAL CORPORATION



SCREEN A: 44' TO 84' BGS
SCREEN B: 94' TO 134' BGS
SCREEN C: 145' TO 185' BGS

FIGURE A.2-1

VAPOR EXTRACTION WELL
VE-1

Jet Propulsion Laboratory
Pasadena, California

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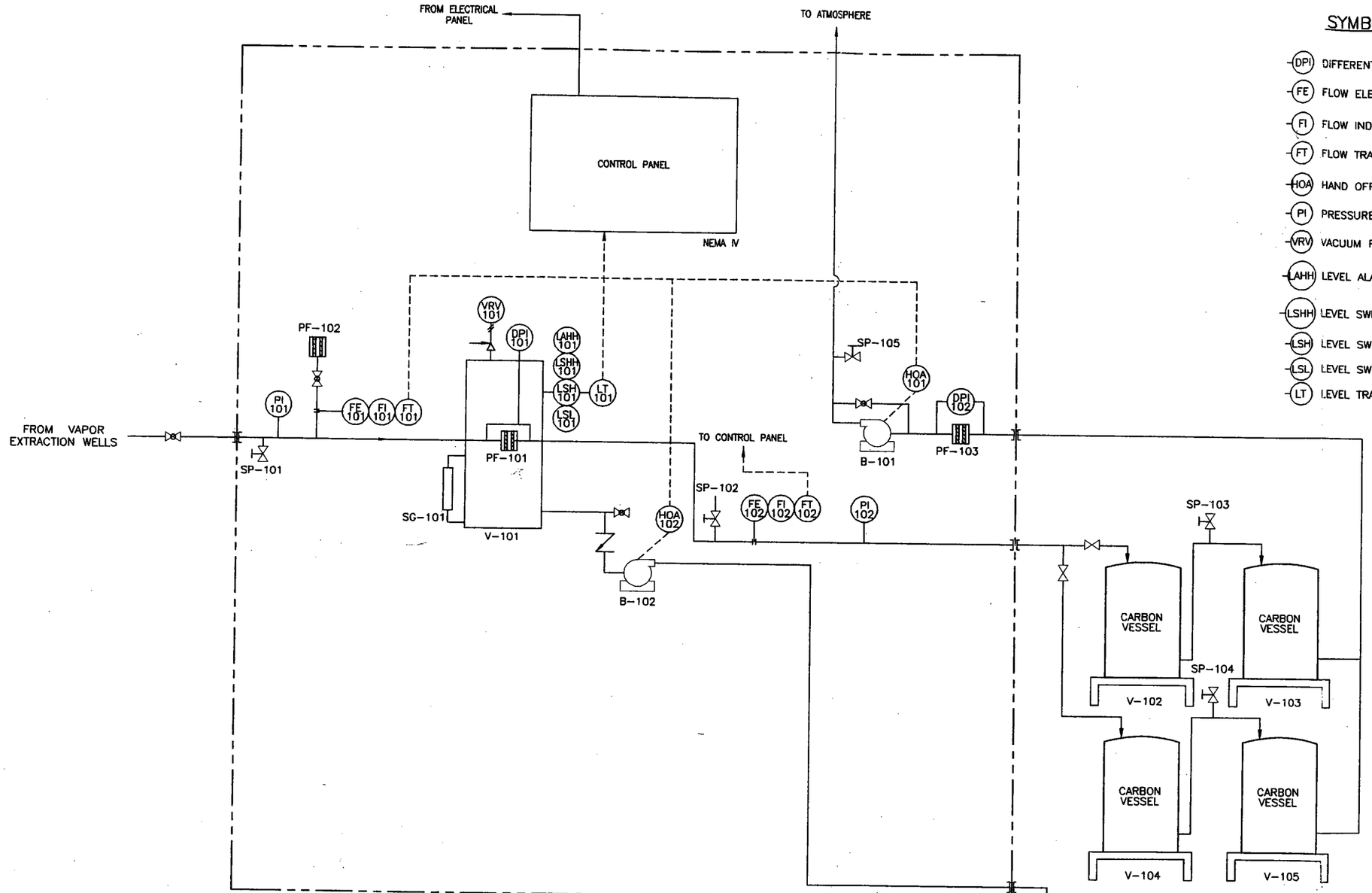

SYMBOLS AND IDENTIFICATION LETTERS

- DPI — DIFFERENTIAL PRESSURE INDICATOR
- FE — FLOW ELEMENT
- FI — FLOW INDICATOR
- FT — FLOW TRANSMITTER
- HOA — HAND OFF AUTOMATIC
- PI — PRESSURE INDICATOR
- VRV — VACUUM RELIEF VALVE
- LAHH — LEVEL ALARM HIGH HIGH
- LSHH — LEVEL SWITCH HIGH HIGH
- LSH — LEVEL SWITCH HIGH
- LSL — LEVEL SWITCH LOW
- LT — LEVEL TRANSMITTER
- 1 — INTERLOCK LOGIC
- BALL VALVE
- SAMPLE PORT
- RELIEF VALVE
- FLOW LINES (LIQUID/VAPOR)
- SIGNAL LINE
- PARTICULATE FILTER
- SG — SIGHT GLASS
- CHECK VALVE

INSTRUMENTATION

NAME	DECRIPTION	RANGE
DPI-101	MAGNEHELIC, PRESSURE INDICATOR	0-10 "H_2O
DPI-102	MAGNEHELLIC PRESSURE INDICATOR	0-10 "H_2O
FE, FI, FT-101	PITOT TUBE, INDICATOR, TRANSMITTER	0-600 scfm
FE, FI, FT-102	PITOT TUBE, INDICATOR, TRANSMITTER	0-600 scfm
PI-101	MAGNEHELIC, VACUUM INDICATOR	0-150 "H_2O
PI-102	MAGNEHELIC, VACUUM INDICATOR	0-150 "H_2O
VRV-101	VACUUM RELIEF	10 "Hg

CONTROLS

1. SHUT DOWN B-101 FOR ALARM HIGHS IN V-101 AND V-106. PROVIDE TWO INDICATING LIGHTS FOR EACH ALARM IN CONTROL PANEL.
2. RECORD FLOWS FROM FT-101, AND 102 ON RECORDER IN CONTROL PANEL.
3. ALL MOTOR STARTERS FOR B-101 AND B-102 SHALL BE INSTALLED IN CONTROL PANEL AND EQUIPPED WITH HOA SWITCHES.
4. LSH-101 TURNS ON PUMP B-102.
5. LSHH-101 SHOULD SHUT DOWN B-101 UNTIL RESOLVED.
6. LSHH-102 SHOULD SHUT DOWN B-101 UNTIL RESOLVED.

FIGURE A.2-2

PIPING AND INSTRUMENTATION DIAGRAM-PILOT TEST

Jet Propulsion Laboratory
Pasadena, California

FOSTER WHEELER ENVIRONMENTAL CORPORATION

I:\1572-JPL\DWG\OU2\FS12-99\FIGA2-2.DWG
PLOT/UPDATE: DEC 21 1999 14:04:17

FIGURE A.4-1
TEST 1: VACUUM VS FLOW RATE

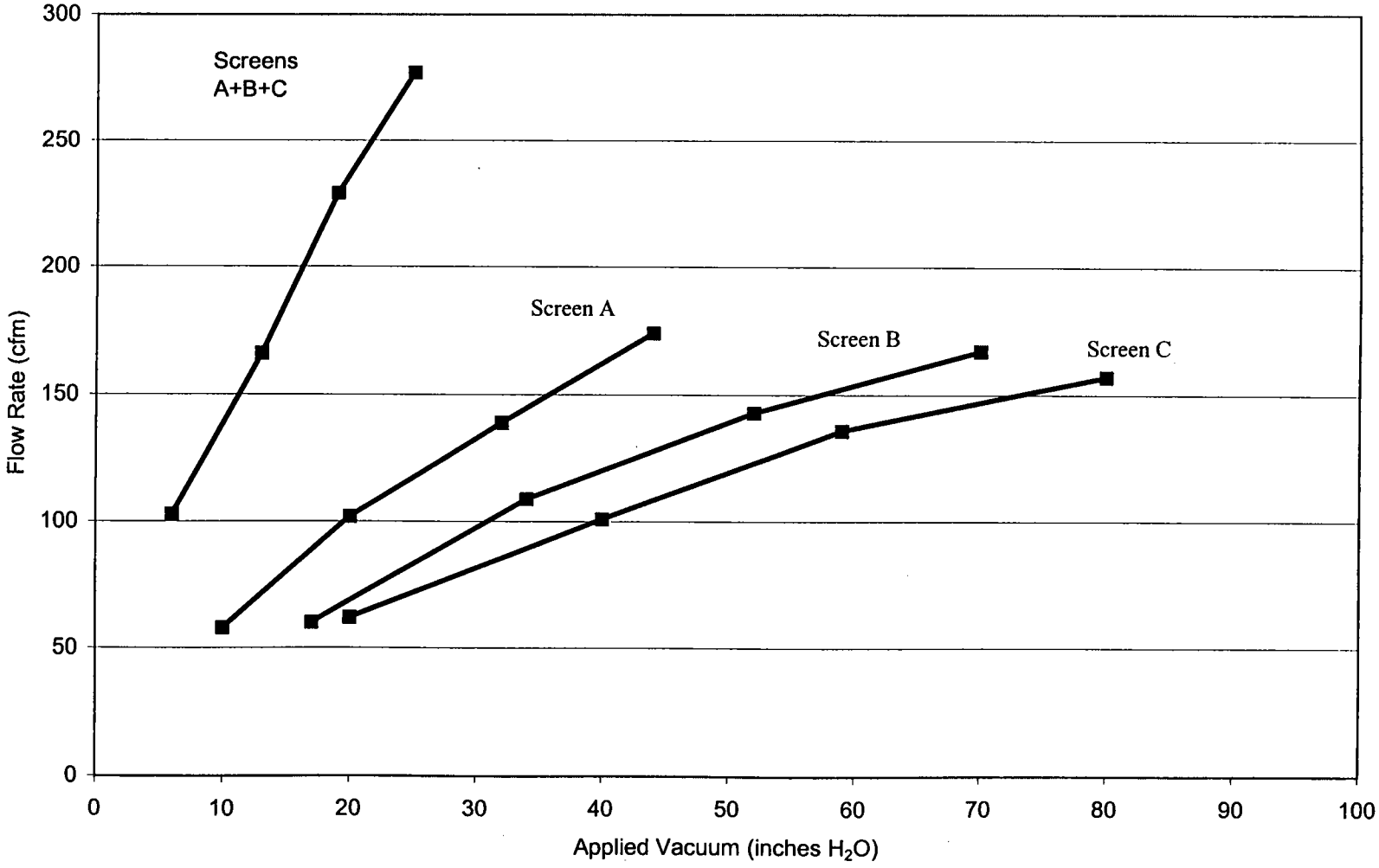

FIGURE A.4-2
JPL MONITORING WELL LOCATIONS AND DEPTHS

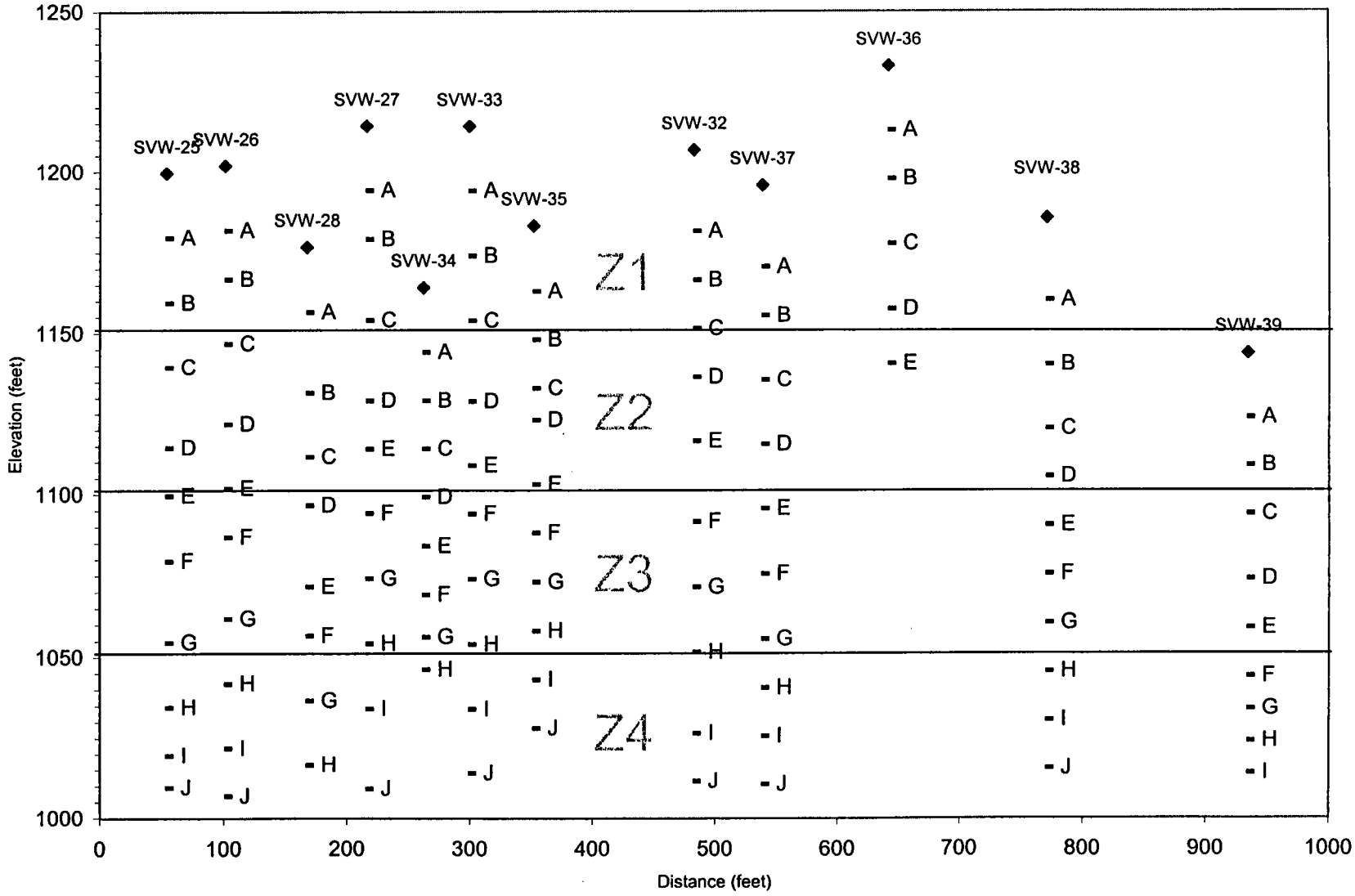

FIGURE A.4-3
TEST 1: ZONE VACUUM RESPONSE
Screen A (100% Vacuum)

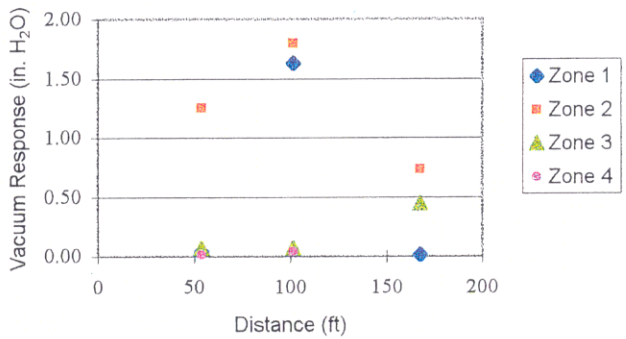

FIGURE A.4-4
TEST 1: ZONE VACUUM RESPONSE
Screen B (100% Vacuum)

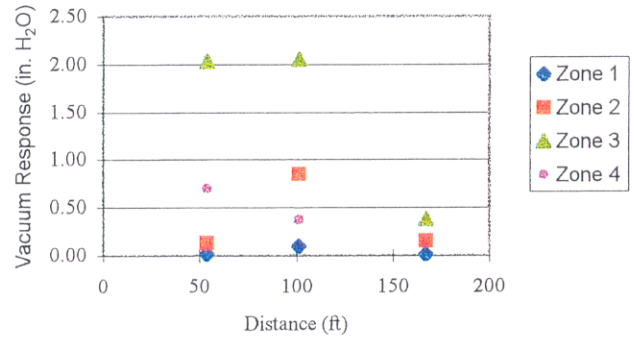

FIGURE A.4-5
TEST 1: ZONE VACUUM RESPONSE
Screen C (100% Vacuum)

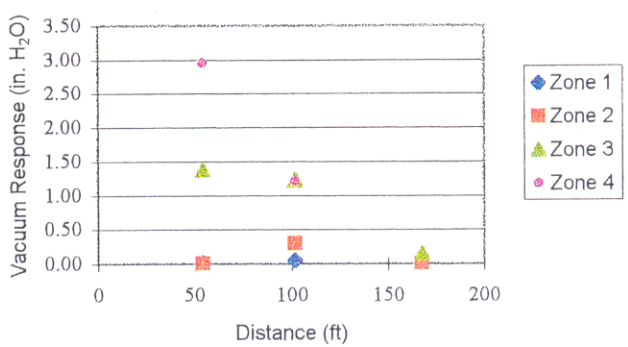

FIGURE A.4-6
TEST 1: ZONE VACUUM RESPONSE
Screens ABC (100% Vacuum)

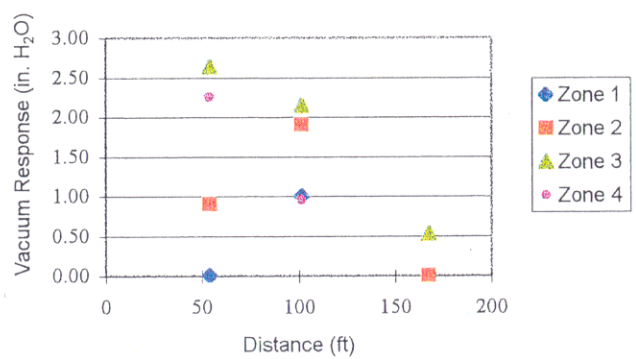
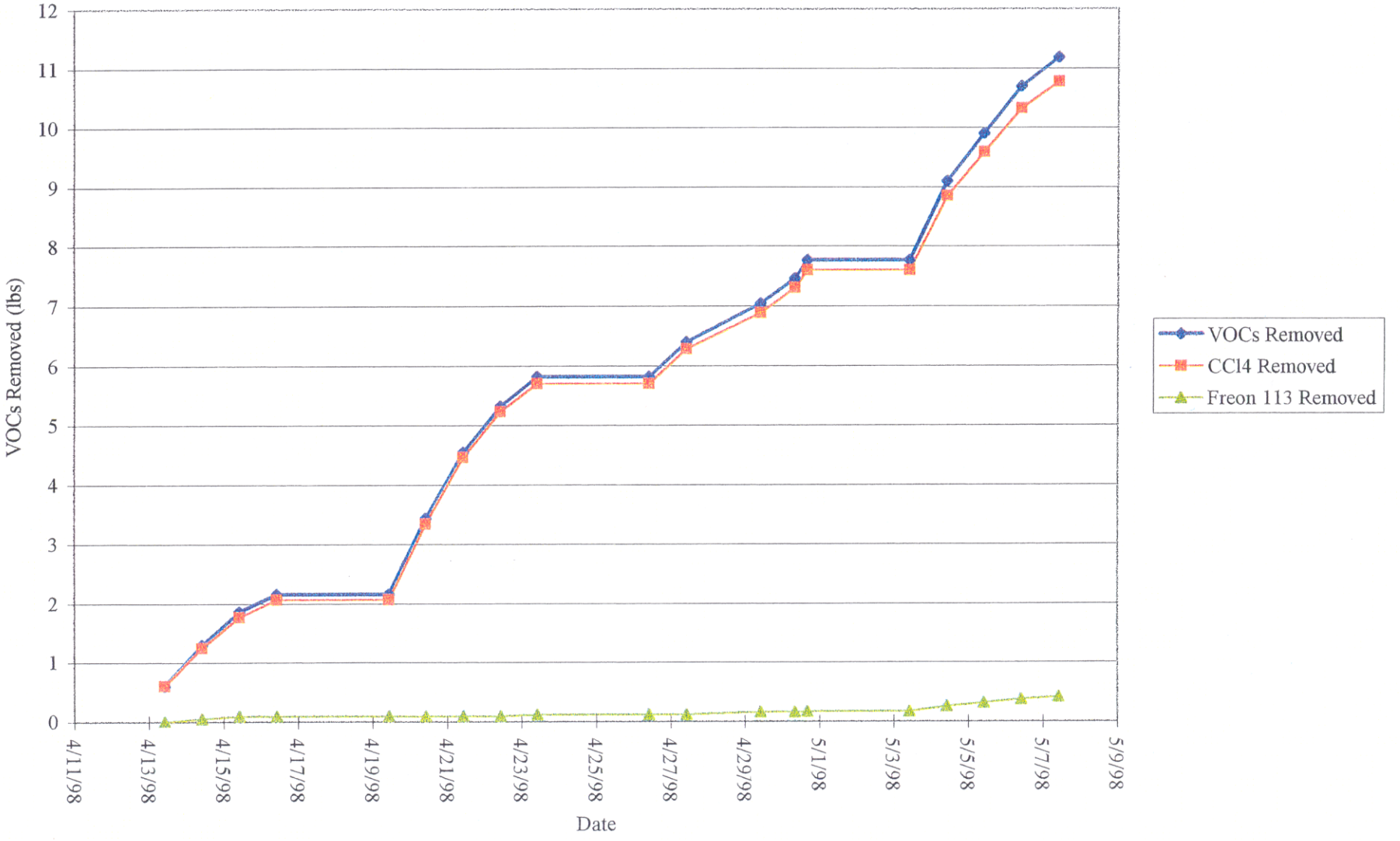
FIGURE A.4-7
TEST 1: DAILY AVERAGE CUMULATIVE VOCs REMOVED