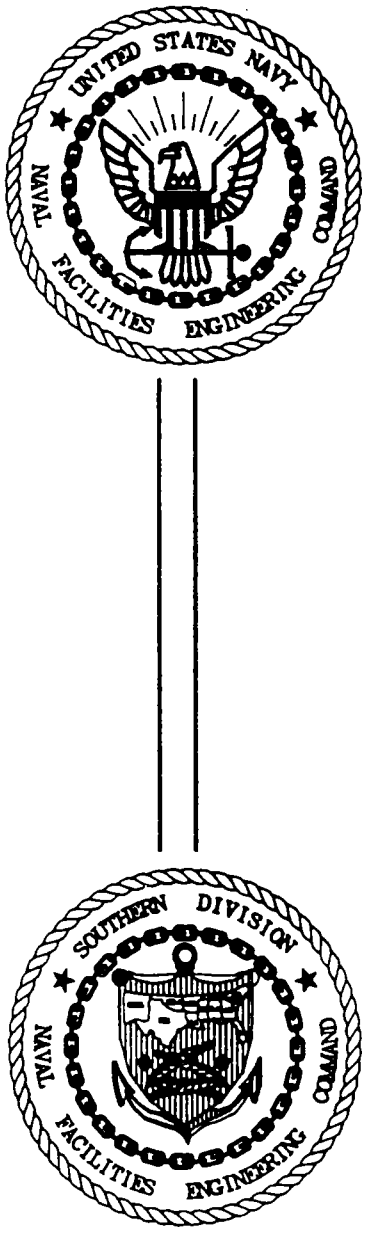
N61165.AR.003092
CNC CHARLESTON
5090.3a

DRAFT RESOURCE CONSERVATION AND RECOVERY ACT FACILITY INVESTIGATION REPORT VOLUME 6 OF 12 SECTION 10.13 ZONE L CNC CHARLESTON SC

12/18/1998

ENSAFE INC.

DRAFT ZONE L
RCRA FACILITY INVESTIGATION REPORT
CHARLESTON NAVAL COMPLEX



VOLUME 6 OF 12
SECTION 10.13

CTO-029
CONTRACT NO: N62467-89-D-0318

Prepared for:

Department of the Navy
Southern Division
Naval Facilities Engineering Command
North Charleston, South Carolina

Prepared by:

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Memphis, Tennessee 38134
(901) 372-7962

December 18, 1998

10.13 Contouring

Tetrachloroethene (PCE), trichloroethene (TCE), 1,2-dichloroethene (total) (DCE), and vinyl chloride detection concentrations in Subzones E and F were contoured using Spatial Analyst for GIS. Monitoring well samples and DPT groundwater samples from Zone L, as well as from previous investigations of Zones E and F, were used for the contouring. The groundwater samples in Subzone E were classified as shallow or deep. In Subzone F, samples were classified as shallow, intermediate, or deep. There were few detections of the four compounds listed above in the deep interval of Subzone F. Therefore, this interval was not contoured.

Subzone E Shallow Groundwater

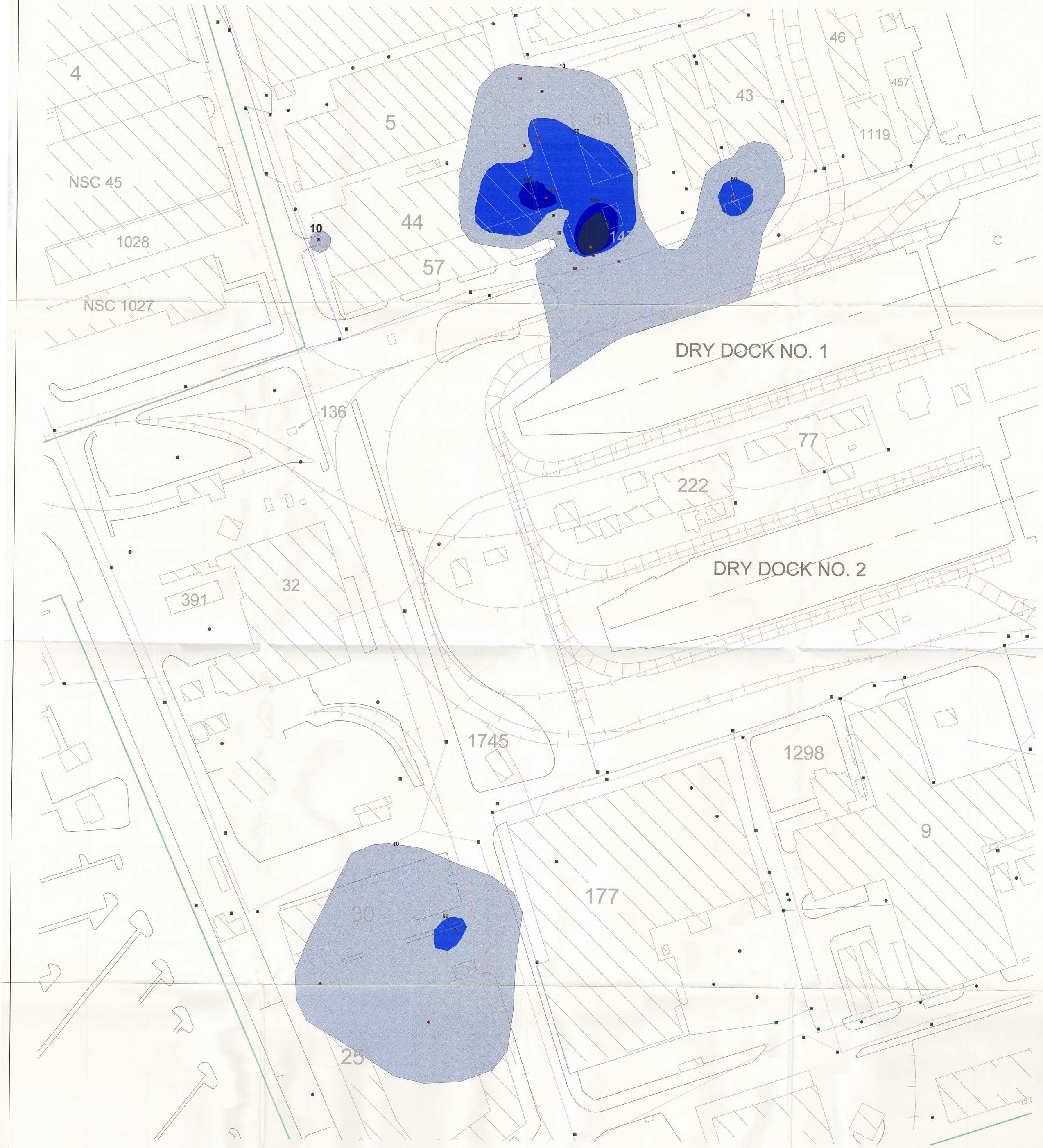
Figure 10.13.1 shows all contours for PCE. Two areas, shown in Figures 10.13.2 and 10.13.3, had Zone L detections for PCE. Figure 10.13.4 shows all contours for TCE and Figures 10.13.5 through 10.13.9 show areas where Zone L samples had detections. Figure 10.13.10 shows all contours for DCE and Figures 10.13.11 through 10.13.15 show areas where Zone L samples had detections. Figure 10.13.16 shows all contours for vinyl chloride. Two areas, shown in Figures 10.13.17 and 10.13.18, had Zone L detections for vinyl chloride.

Subzone E Deep Groundwater

The deep interval in Subzone E contains only deep monitoring wells. Figures 10.13.19 through 10.13.22 show deep groundwater concentration contours for PCE, TCE, DCE, and vinyl chloride. No deep groundwater samples were taken for Zone L.

Subzone F Shallow Groundwater

Figure 10.13.23 shows all contours for PCE. Figures 10.13.24 and 10.13.25 show areas where Zone L samples had detections for PCE. Figure 10.13.26 shows all contours for TCE, while Figure 10.13.27 shows the area near AOC 607 where Zone L samples had detections.



LEGEND

- Monitoring Well Groundwater Sample with Detection
- Monitoring Well Groundwater Sample with No Detection
- DPT Groundwater Sample with Detection
- DPT Groundwater Sample with No Detection

PCE Concentration (ug/L)

- 10 - 49
- 50 - 99
- 100 - 499
- > 500

- Subzone Boundary
- Railroad
- Sanitary Sewer Line
- Storm Sewer Line

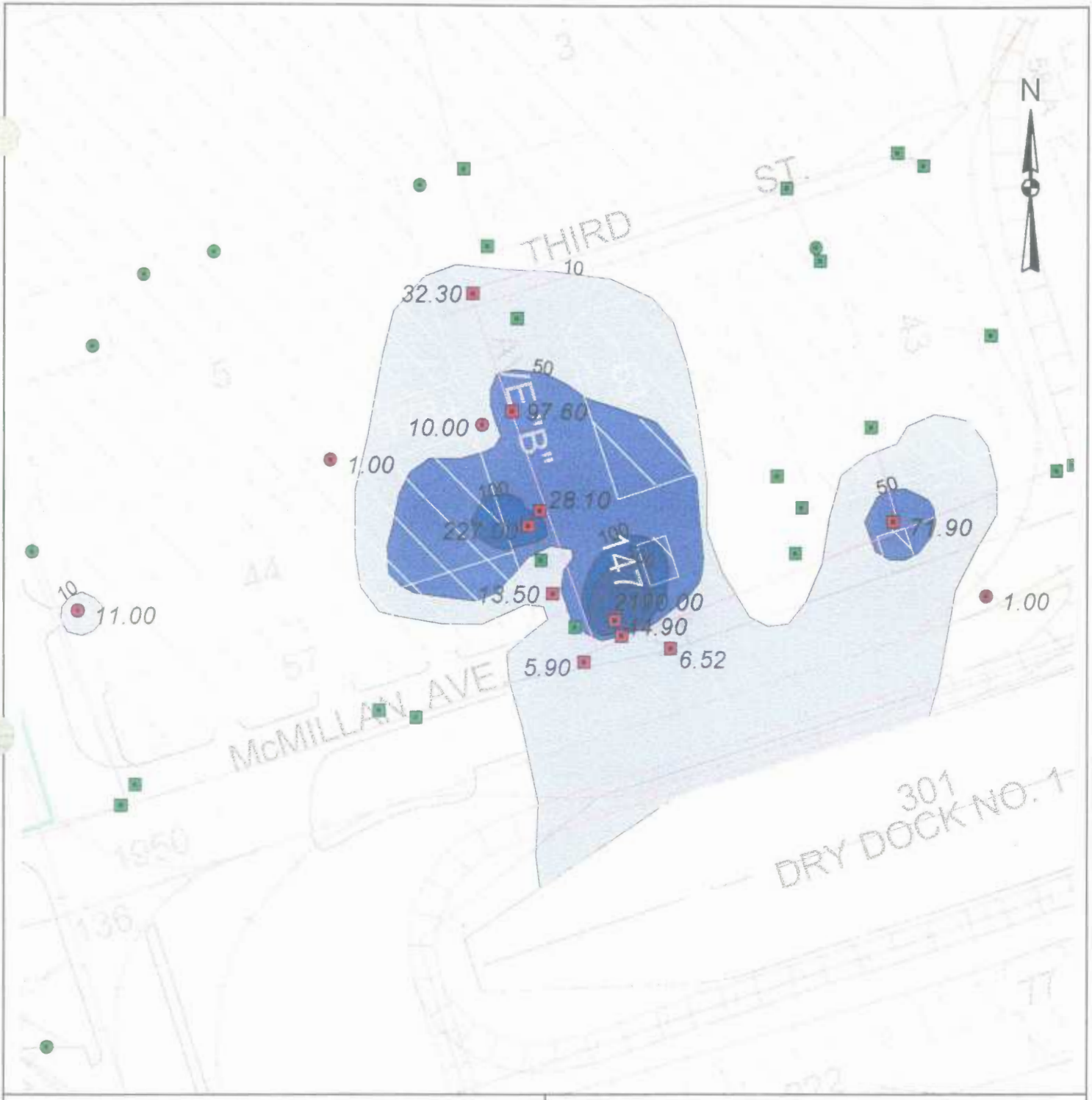
100 0 100 200 Feet

ZONE L - RCRA
FACILITY INVESTIGATION
NAVAL BASE CHARLESTON
CHARLESTON, SC

Figure 10.13.1
Zone L - Subzone E

Tetrachloroethene
Shallow Groundwater Concentration Contours

MCL = 5.00 ug/L



LEGEND

- Monitoring Well Groundwater Sample with Detection
- Monitoring Well Groundwater Sample with No Detection
- DPT Groundwater Sample with Detection
- DPT Groundwater Sample with No Detection

PCE Concentration (ug/L)

- 10 - 49
- 50 - 99
- 100 - 499
- > 500

Subzone Boundary
Railroad
Sanitary Sewer Line
Storm Sewer Line

100 0 100 200 Feet

ZONE L - RCRA
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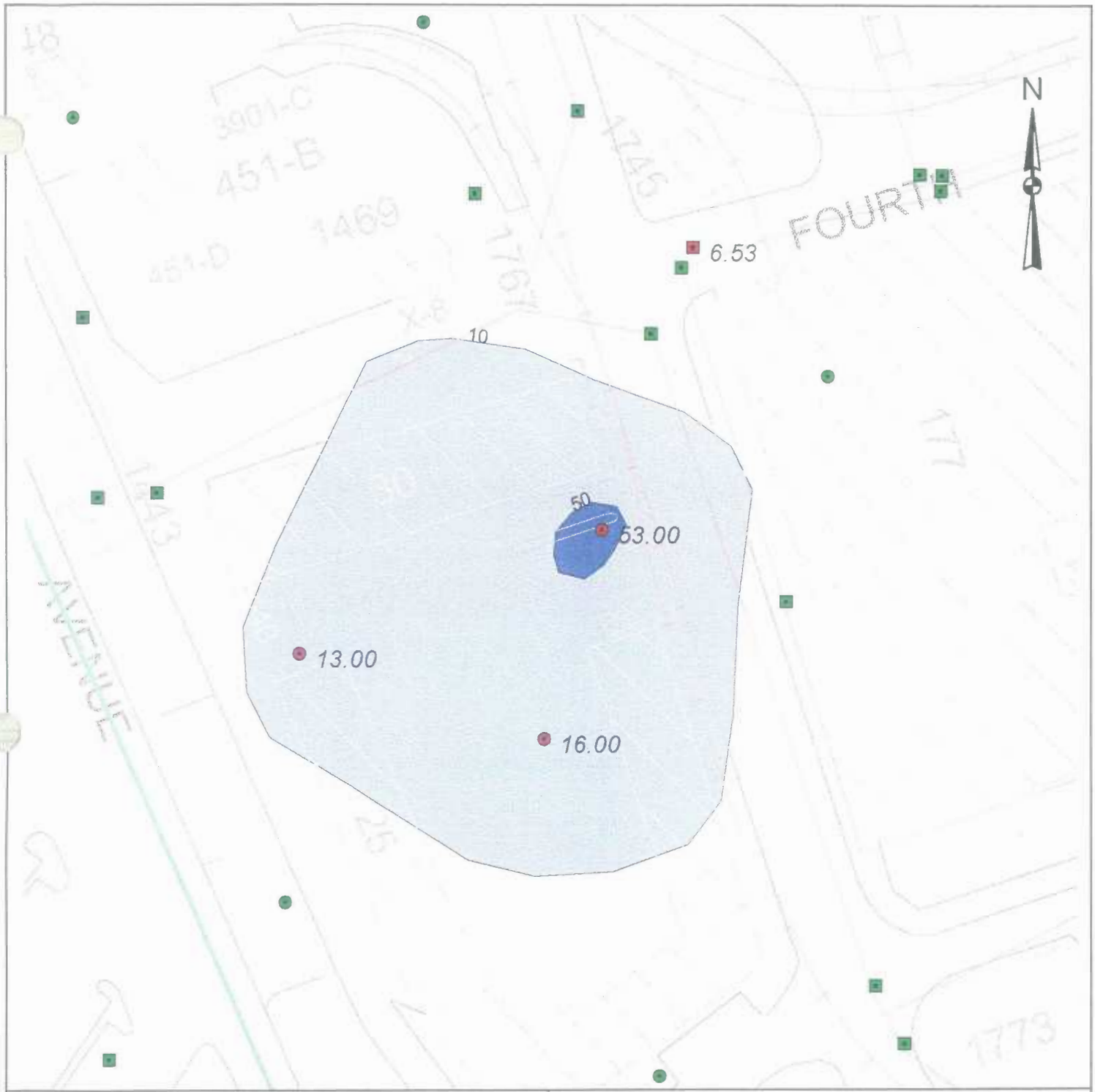
NAVAL BASE CHARLESTON
CHARLESTON, SC

Figure 10.13.2
Zone L - Subzone E

Tetrachloroethene (PCE)
Shallow Groundwater Concentration Contours

MCL = 5.00 ug/L



LEGEND

- Monitoring Well Groundwater Sample with Detection
- Monitoring Well Groundwater Sample with No Detection
- DPT Groundwater Sample with Detection
- DPT Groundwater Sample with No Detection

PCE Concentration (ug/L)

- 10 - 49
- 50 - 99
- 100 - 499
- > 500

Subzone Boundary
Sanitary Sewer Line
Railroad
Storm Sewer Line

90 0 90 180 Feet

ZONE L - RCRA
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NAVAL BASE CHARLESTON
CHARLESTON, SC

Figure 10.13.3
Zone L - Subzone E

Tetrachloroethene (PCE)
Shallow Groundwater Concentration Contours

MCL = 5.00 ug/L

59
2-A
239
228
1069
1127
2
62
74
35
56
226
6
3
8
4
5
46
457
43
63
1119
NSC 45
1028
44
147
57
NSC 1027
DRY DOCK NO. 1
136
77
222
391
32
DRY DOCK NO. 2
1745
1298
9
80
30
177

10
50
100
200

LEGEND

- Monitoring Well Groundwater Sample with Detection
- Monitoring Well Groundwater Sample with No Detection
- DPT Groundwater Sample with Detection
- DPT Groundwater Sample with No Detection

TCE Concentration (ug/L)

- 10 - 49
- 50 - 99
- 100 - 199
- > 200

- Subzone Boundary
- Railroad
- Sanitary Sewer Line
- Storm Sewer Line

100 0 100 200 Feet

ZONE L - RCRA
FACILITY INVESTIGATION
NAVAL BASE CHARLESTON
CHARLESTON, SC

Figure 10.13.4
Zone L - Subzone E

Trichloroethene
Shallow Groundwater Concentration Contours

MCL = 5.00 ug/L

LEGEND

- Monitoring Well Groundwater Sample with Detection
- Monitoring Well Groundwater Sample with No Detection
- DPT Groundwater Sample with Detection
- DPT Groundwater Sample with No Detection

TCE Concentration (ug/L)

- 10 - 49
- 50 - 99
- 100 - 299
- > 200

Subzone Boundary
Railroad
Sanitary Sewer Line
Storm Sewer Line

60 0 60 120 Feet

ZONE L - RCRA
FACILITY INVESTIGATION
NAVAL BASE CHARLESTON
CHARLESTON, SC

Figure 10.13.5
Zone L - Subzone E

Trichloroethene (TCE)
Shallow Groundwater Concentration Contours

MCL = 5.00 ug/L

LEGEND

- Monitoring Well Groundwater Sample with Detection
- Monitoring Well Groundwater Sample with No Detection
- DPT Groundwater Sample with Detection
- DPT Groundwater Sample with No Detection

TCE Concentration (ug/L)

- 10 - 49
- 50 - 99
- 100 - 299
- > 200

Subzone Boundary
Railroad
Sanitary Sewer Line
Storm Sewer Line

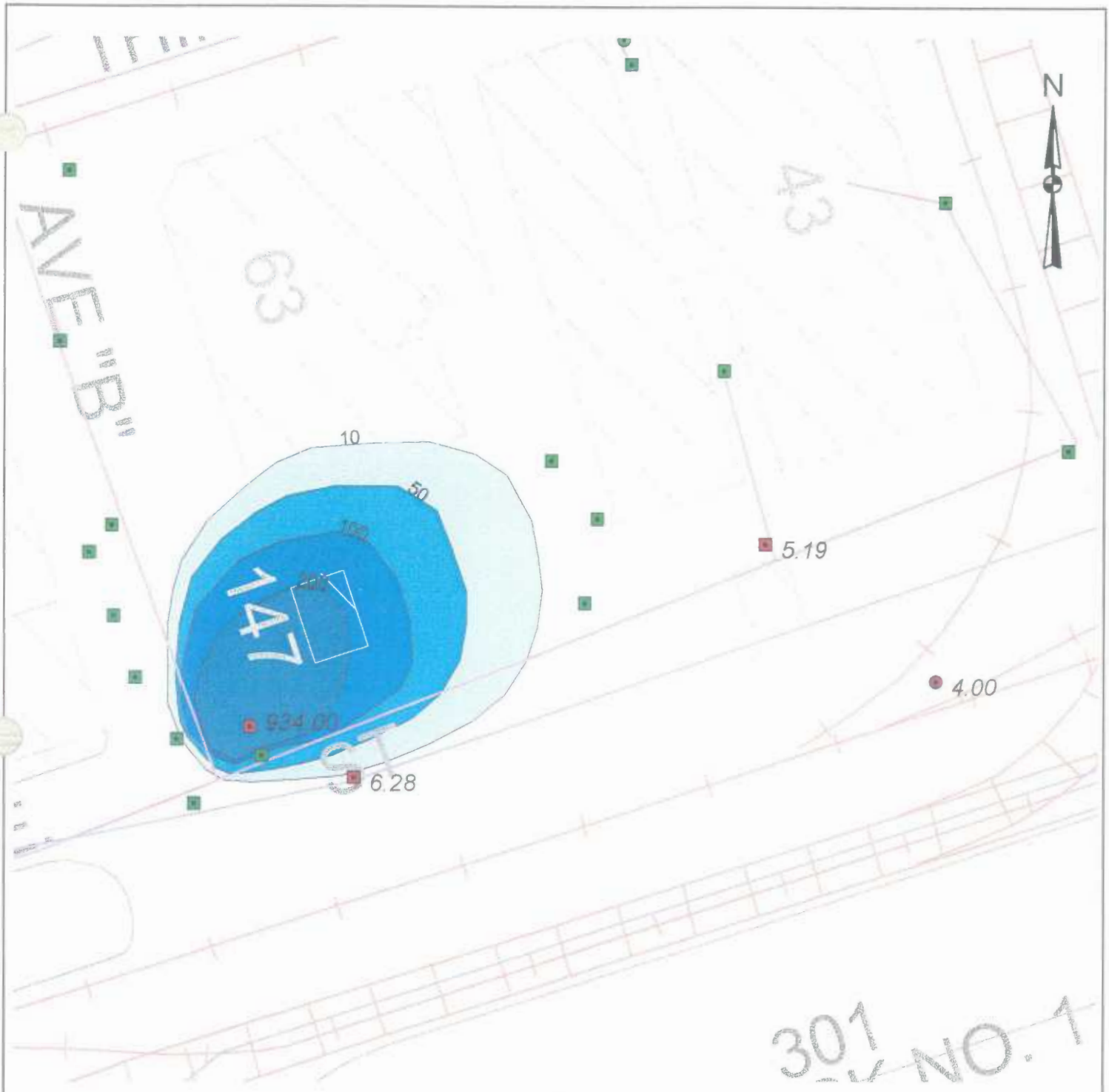
60 0 60 120 Feet

ZONE L - RCRA
FACILITY INVESTIGATION
NAVAL BASE CHARLESTON
CHARLESTON, SC

Figure 10.13.6
Zone L - Subzone E

Trichloroethene (TCE)
Shallow Groundwater Concentration Contours

MCL = 5.00 ug/L



LEGEND

- Monitoring Well Groundwater Sample with Detection
- Monitoring Well Groundwater Sample with No Detection
- DPT Groundwater Sample with Detection
- DPT Groundwater Sample with No Detection

TCE Concentration (ug/L)

- 10 - 49
- 50 - 99
- 100 - 299
- > 200

Subzone Boundary
Railroad
Sanitary Sewer Line
Storm Sewer Line

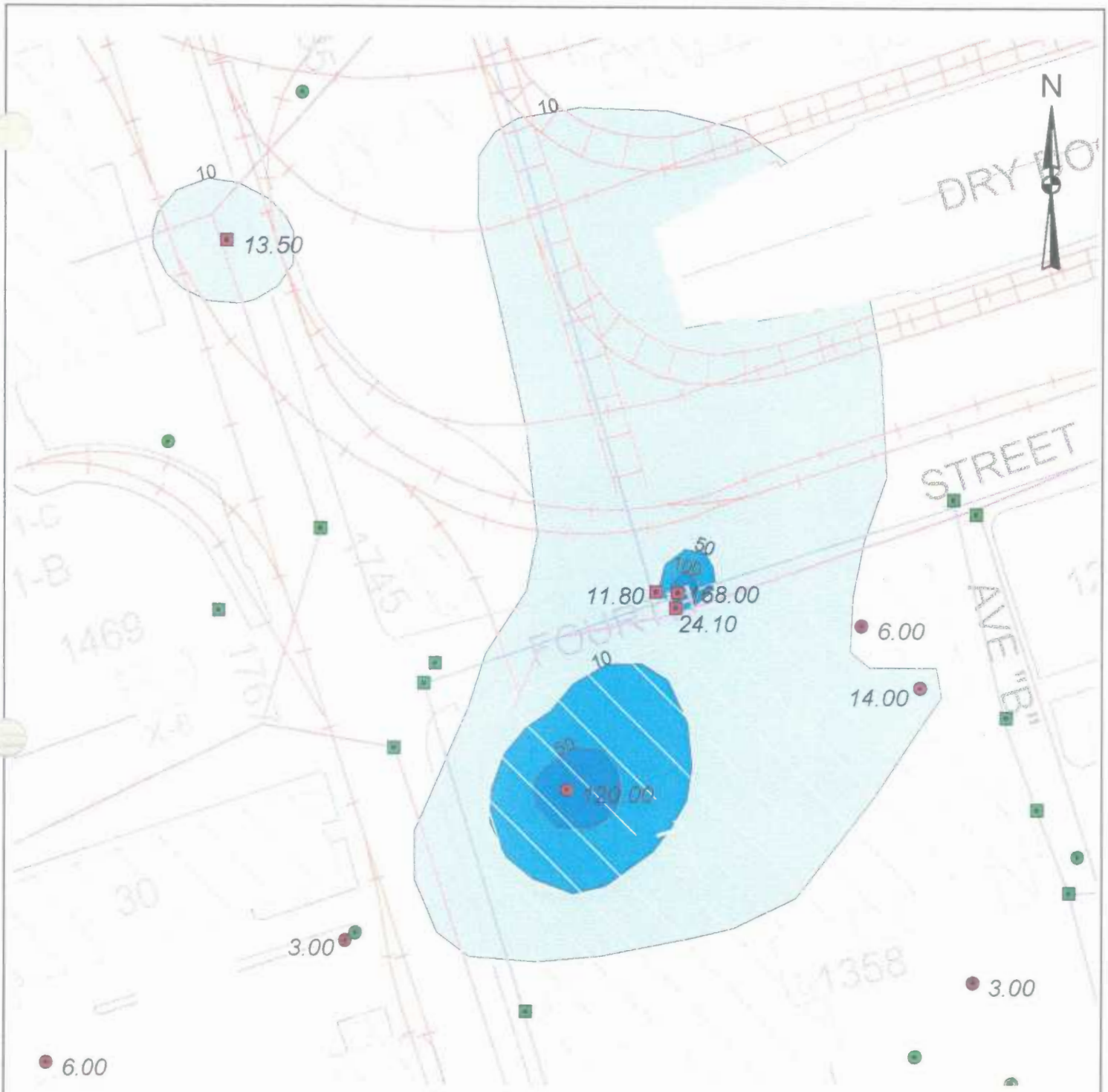
40 0 40 80 Feet

ZONE L - RCRA
FACILITY INVESTIGATION
NAVAL BASE CHARLESTON
CHARLESTON, SC

Figure 10.13.7
Zone L - Subzone E

Trichloroethene (TCE)
Shallow Groundwater Concentration Contours

MCL = 5.00 ug/L



LEGEND

- Monitoring Well Groundwater Sample with Detection
- Monitoring Well Groundwater Sample with No Detection
- DPT Groundwater Sample with Detection
- DPT Groundwater Sample with No Detection

TCE Concentration (ug/L)

- 10 - 49
- 50 - 99
- 100 - 299
- > 200

Subzone Boundary
Railroad
Sanitary Sewer Line
Storm Sewer Line

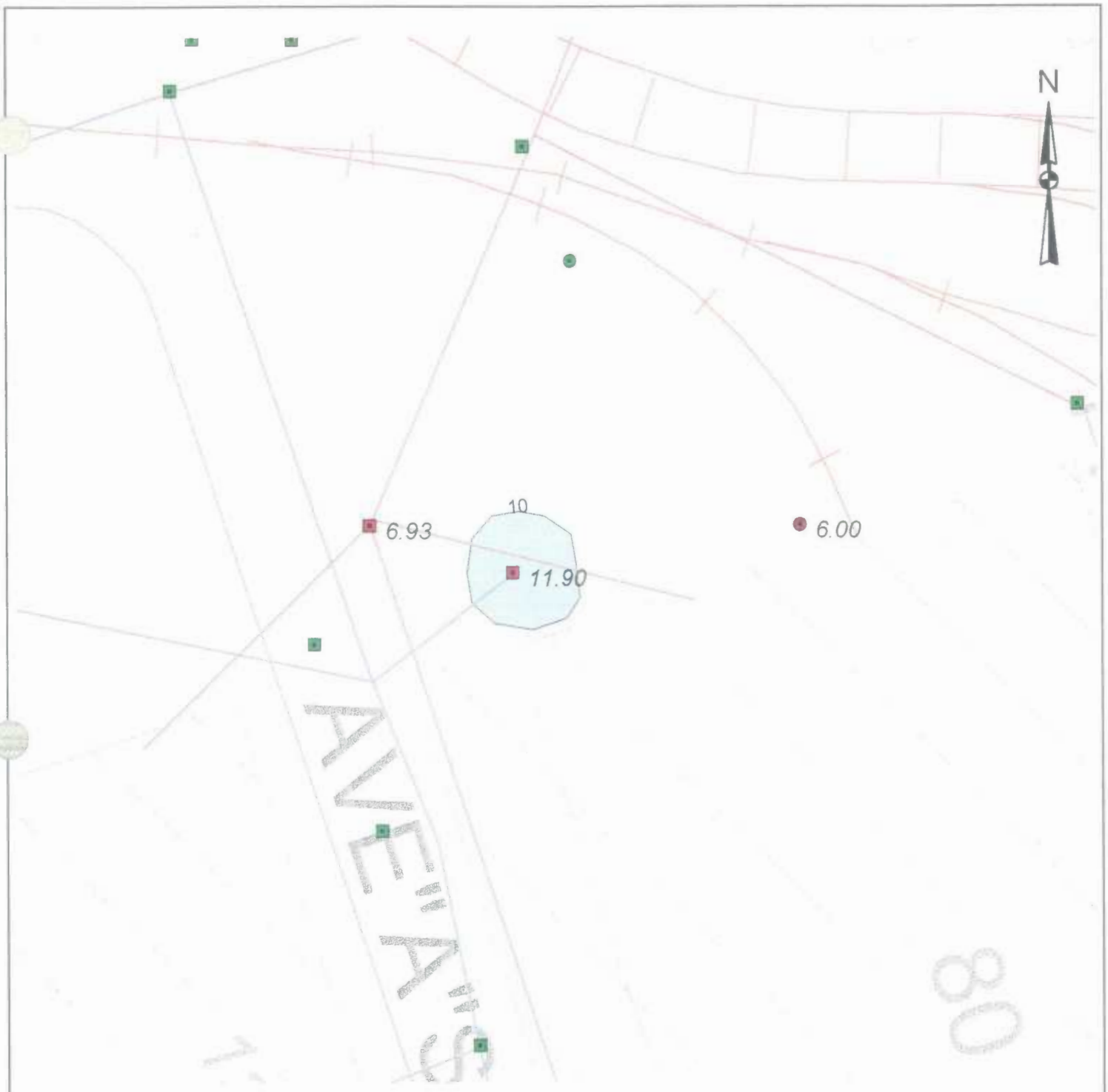
70 0 70 140 Feet

ZONE L - RCRA
FACILITY INVESTIGATION
NAVAL BASE CHARLESTON
CHARLESTON, SC

Figure 10.13.8
Zone L - Subzone E

Trichloroethene (TCE)
Shallow Groundwater Concentration Contours

MCL = 5.00 ug/L



LEGEND

- Monitoring Well Groundwater Sample with Detection
- Monitoring Well Groundwater Sample with No Detection
- DPT Groundwater Sample with Detection
- DPT Groundwater Sample with No Detection

TCE Concentration (ug/L)

- 10 - 49
- 50 - 99
- 100 - 299
- > 200

Subzone Boundary
Railroad
Sanitary Sewer Line
Storm Sewer Line

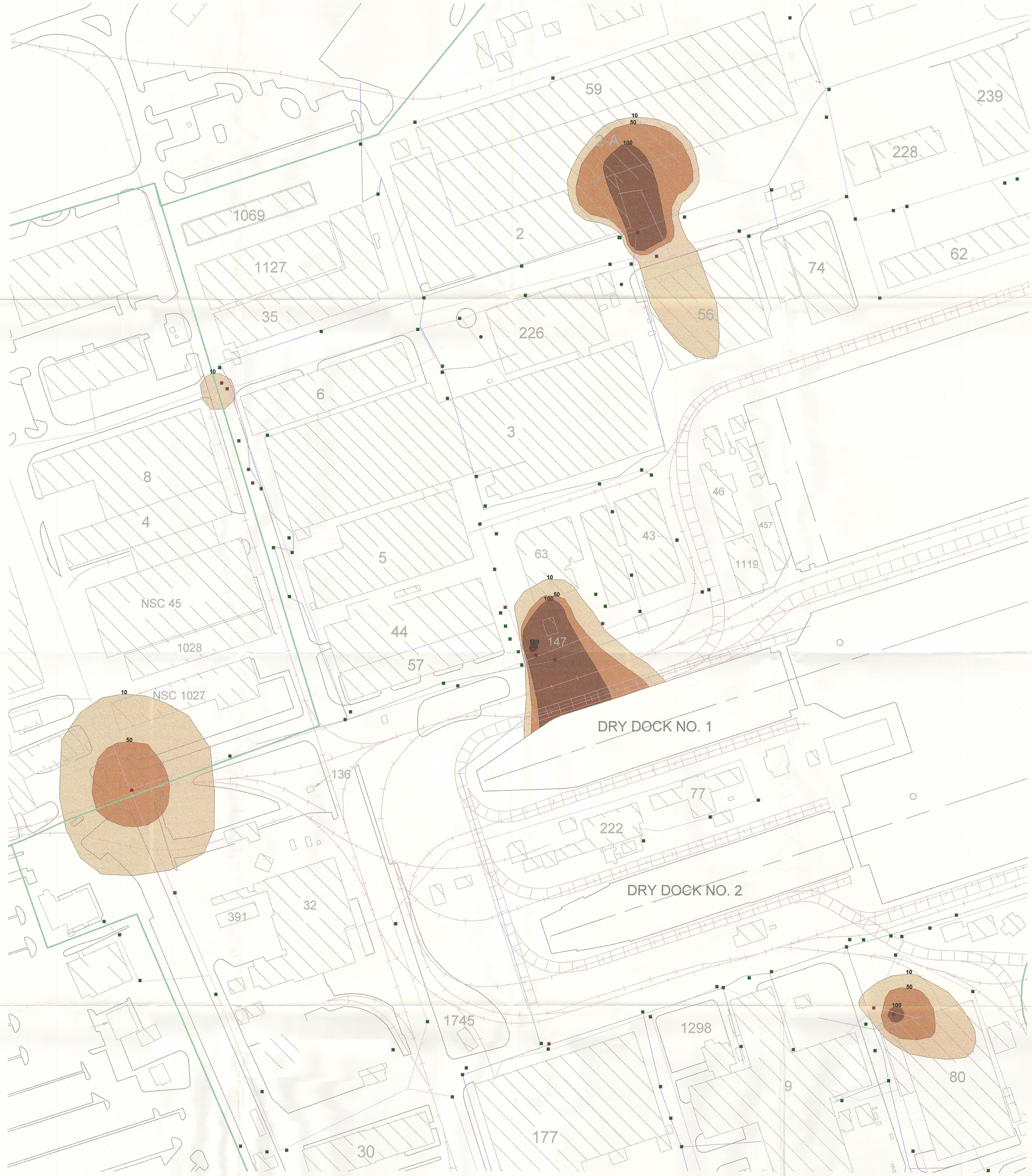
30 0 30 60 Feet

ZONE L - RCRA
FACILITY INVESTIGATION
NAVAL BASE CHARLESTON
CHARLESTON, SC

Figure 10.13.9
Zone L - Subzone E

Trichloroethene (TCE)
Shallow Groundwater Concentration Contours

MCL = 5.00 ug/L



LEGEND

- Monitoring Well Groundwater Sample with Detection
- Monitoring Well Groundwater Sample with No Detection
- DPT Groundwater Sample with Detection
- DPT Groundwater Sample with No Detection

DCE Concentration (ug/L)

- 10 - 49
- 50 - 99
- 100 - 499
- > 500

- Subzone Boundary
- Railroad
- Sanitary Sewer Line
- Storm Sewer Line

100 0 100 200 Feet

ZONE L - RCRA
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NAVAL BASE CHARLESTON
CHARLESTON, SC

Figure 10.13.10
Zone L - Subzone E

1,2-Dichloroethene (total) (DCE)
Shallow Groundwater Concentration Contours

MCL = 70.0 ug/L

LEGEND

- Monitoring Well Groundwater Sample with Detection
- Monitoring Well Groundwater Sample with No Detection
- DPT Groundwater Sample with Detection
- DPT Groundwater Sample with No Detection

DCE Concentration (ug/L)

- 10 - 49
- 50 - 99
- 100 - 499
- > 500

Subzone Boundary
Railroad
Sanitary Sewer Line
Storm Sewer Line

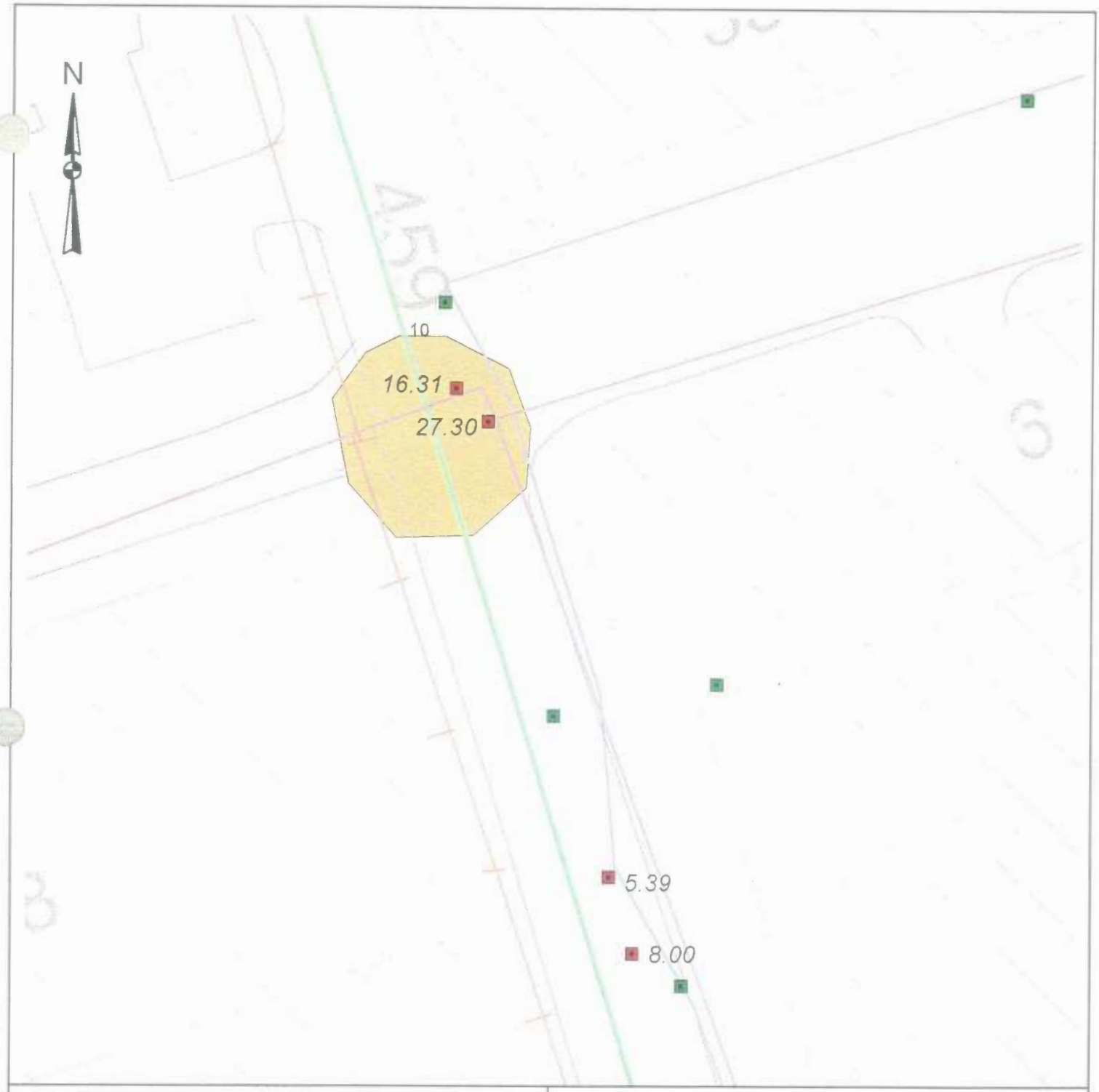
80 0 80 160 Feet

ZONE L - RCRA
FACILITY INVESTIGATION
NAVAL BASE CHARLESTON
CHARLESTON, SC

Figure 10.13.11
Zone L - Subzone E

1,2-Dichloroethene (total) (DCE)
Shallow Groundwater Concentration Contours

MCL = 70.0 ug/L



LEGEND

- Monitoring Well Groundwater Sample with Detection
- Monitoring Well Groundwater Sample with No Detection
- DPT Groundwater Sample with Detection
- DPT Groundwater Sample with No Detection

DCE Concentration (ug/L)

- 10 - 49
- 50 - 99
- 100 - 499
- > 500

- Subzone Boundary
- Sanitary Sewer Line
- Railroad
- Storm Sewer Line

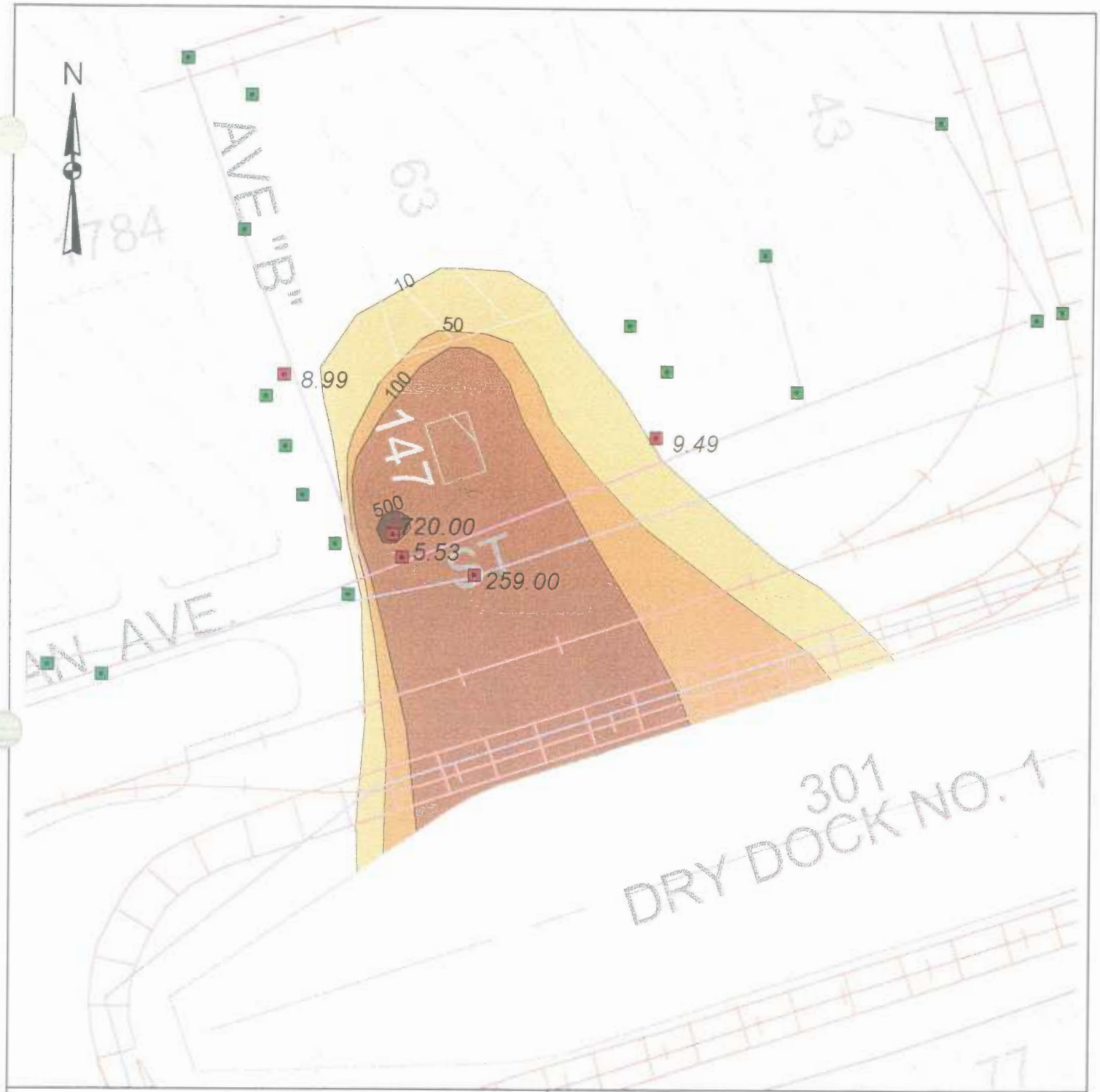
40 0 40 80 Feet

ZONE L - RCRA
FACILITY INVESTIGATION
NAVAL BASE CHARLESTON
CHARLESTON, SC

Figure 10.13.12
Zone L - Subzone E

1,2-Dichloroethene (total) (DCE)
Shallow Groundwater Concentration Contours

MCL = 70.0 ug/L



LEGEND

- Monitoring Well Groundwater Sample with Detection
- Monitoring Well Groundwater Sample with No Detection
- DPT Groundwater Sample with Detection
- DPT Groundwater Sample with No Detection

DCE Concentration (ug/L)

- 10 - 49
- 50 - 99
- 100 - 499
- > 500

- Subzone Boundary
- Railroad
- Sanitary Sewer Line
- Storm Sewer Line

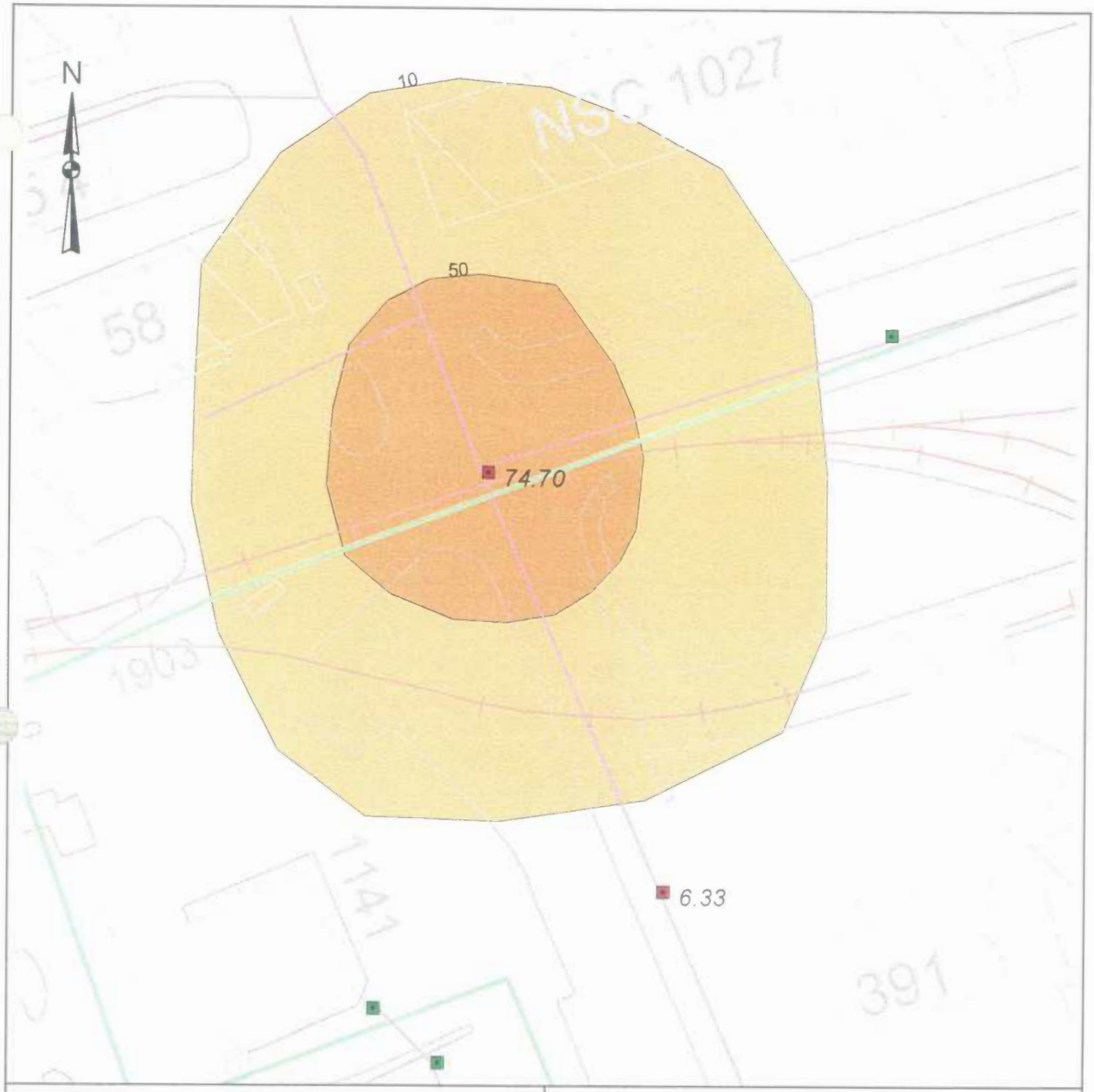
60 0 60 120 Feet

ZONE L - RCRA
FACILITY INVESTIGATION
NAVAL BASE CHARLESTON
CHARLESTON, SC

Figure 10.13.13
Zone L - Subzone E

1,2-Dichloroethene (total) (DCE)
Shallow Groundwater Concentration Contours

MCL = 70.0 ug/L



LEGEND

- Monitoring Well Groundwater Sample with Detection
- Monitoring Well Groundwater Sample with No Detection
- DPT Groundwater Sample with Detection
- DPT Groundwater Sample with No Detection

DCE Concentration (ug/L)

- 10 - 49
- 50 - 99
- 100 - 499
- > 500

- Subzone Boundary
- Sanitary Sewer Line
- Railroad
- Storm Sewer Line

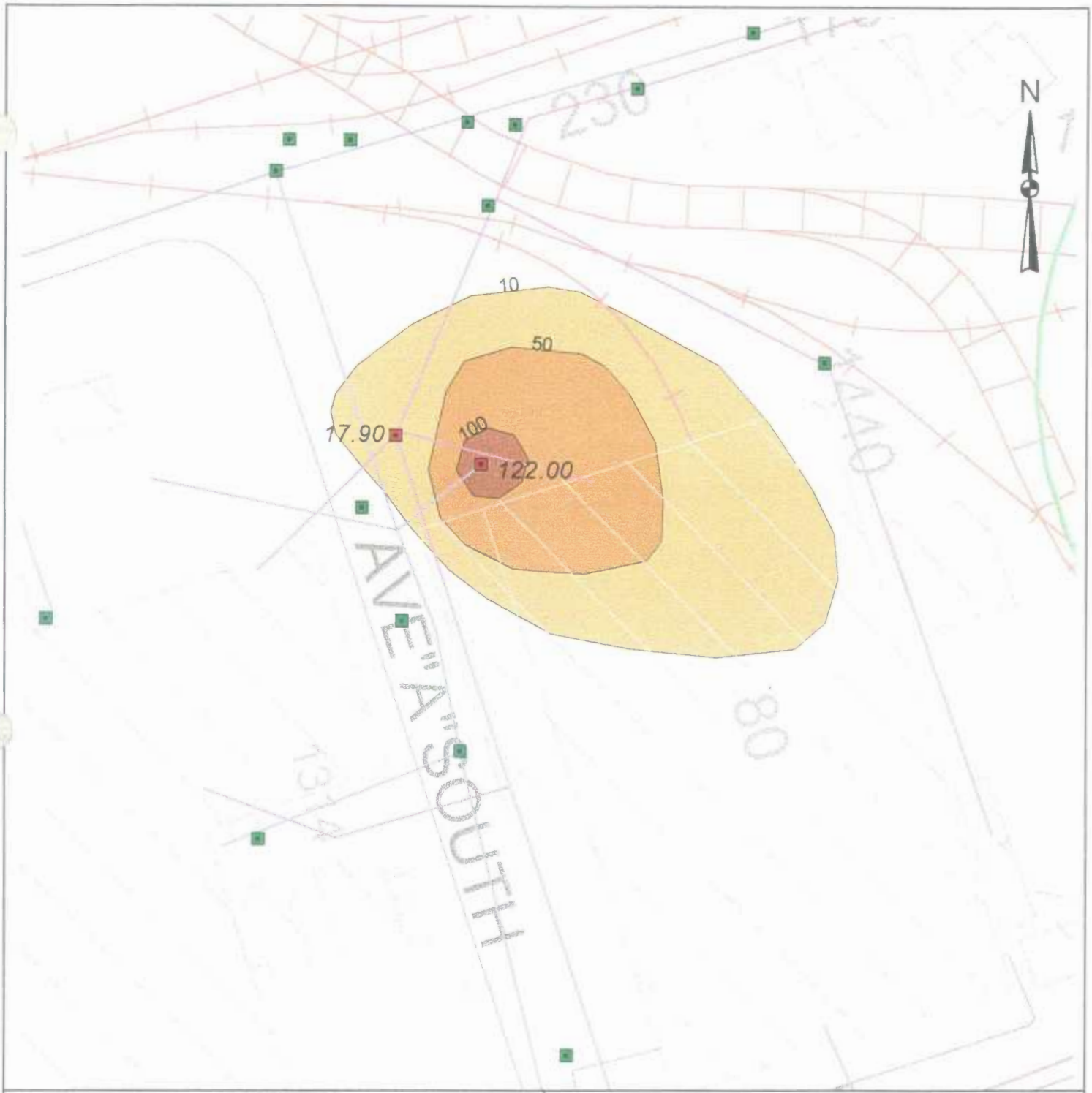
60 0 60 120 Feet

ZONE L - RCRA
FACILITY INVESTIGATION
NAVAL BASE CHARLESTON
CHARLESTON, SC

Figure 10.13.14
Zone L - Subzone E

1,2-Dichloroethene (total) (DCE)
Shallow Groundwater Concentration Contours

MCL = 70.0 ug/L



LEGEND

- Monitoring Well Groundwater Sample with Detection
- Monitoring Well Groundwater Sample with No Detection
- DPT Groundwater Sample with Detection
- DPT Groundwater Sample with No Detection

DCE Concentration (ug/L)

- 10 - 49
- 50 - 99
- 100 - 499
- > 500

Subzone Boundary
Railroad
Sanitary Sewer Line
Storm Sewer Line

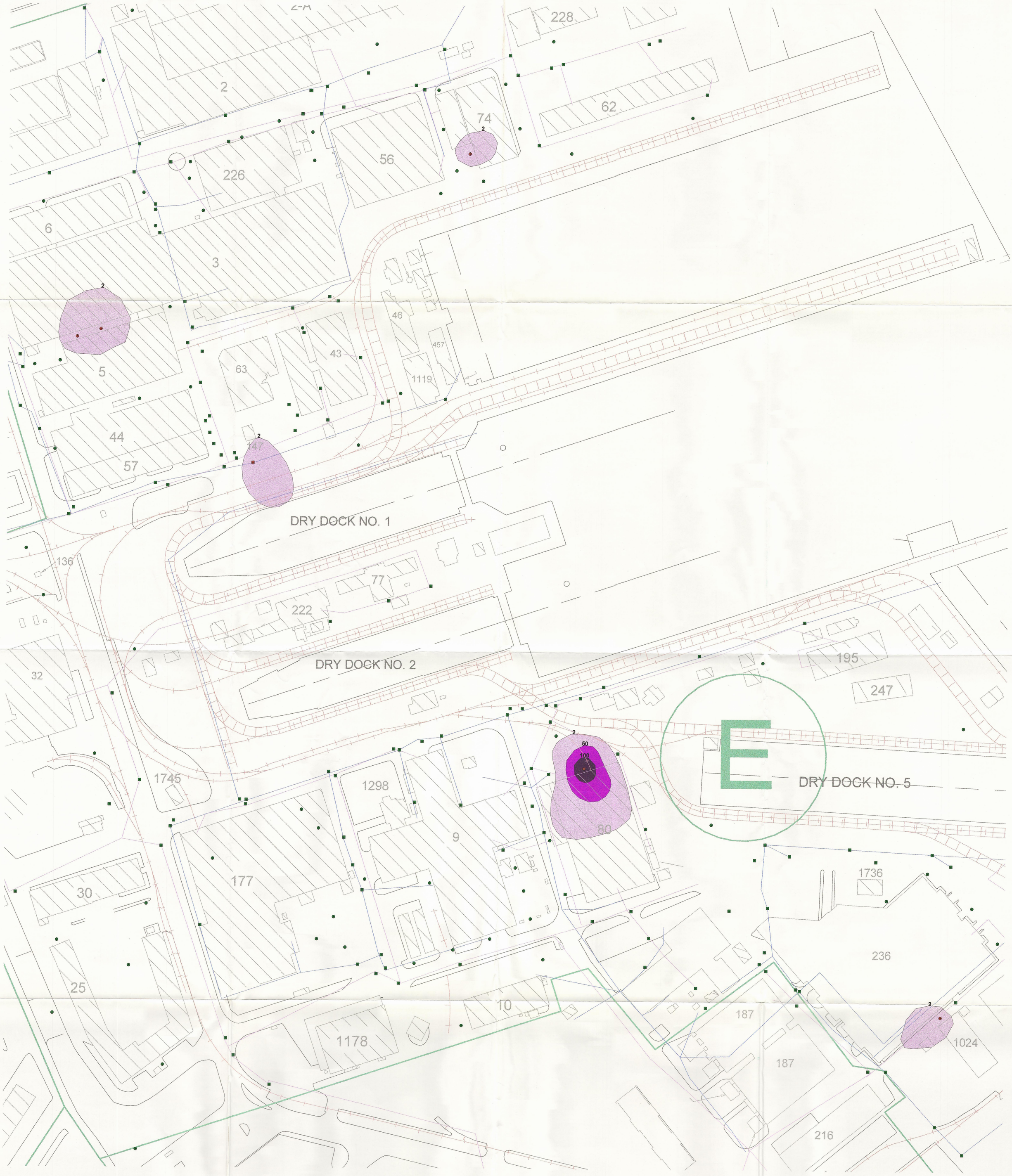
60 0 60 120 Feet

ZONE L - RCRA
FACILITY INVESTIGATION
NAVAL BASE CHARLESTON
CHARLESTON, SC

Figure 10.13.15
Zone L - Subzone E

1,2-Dichloroethene (total) (DCE)
Shallow Groundwater Concentration Contours

MCL = 70.0 ug/L



LEGEND

- Monitoring Well Groundwater Sample with Detection
- Monitoring Well Groundwater Sample with No Detection
- DPT Groundwater Sample with Detection
- DPT Groundwater Sample with No Detection

Vinyl Chloride Concentration (ug/L)

- 2 - 49
- 50 - 99
- > 100

- Subzone Boundary
- Sanitary Sewer Line
- Railroad
- Storm Sewer Line

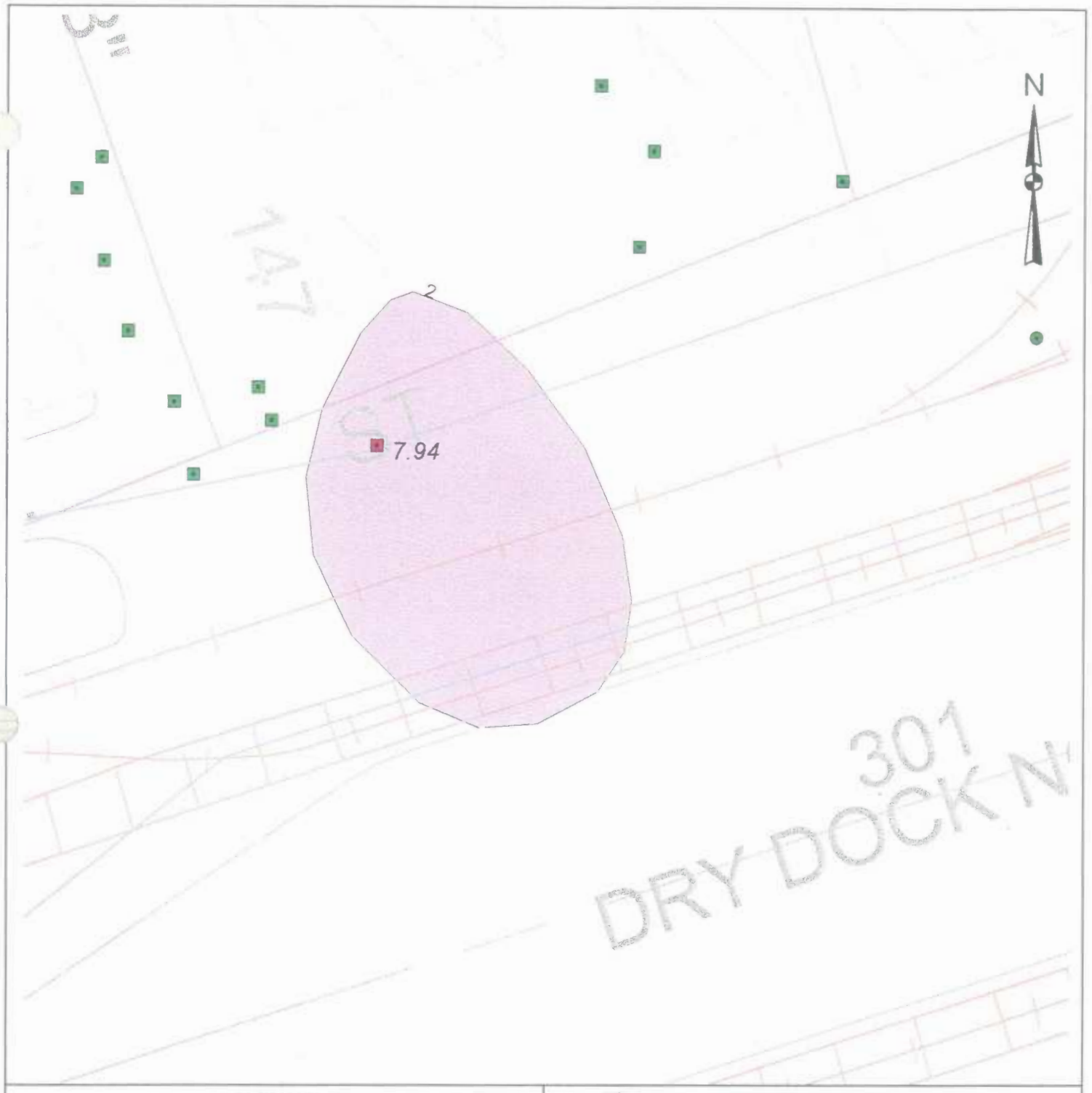
100 0 100 200 Feet

ZONE L - RCRA
FACILITY INVESTIGATION
NAVAL BASE CHARLESTON
CHARLESTON, SC

Figure 10.13.16
Zone L - Subzone E

Vinyl Chloride
Shallow Groundwater Concentration Contours

MCL = 2.00 ug/L



LEGEND

- Monitoring Well Groundwater Sample with Detection
- Monitoring Well Groundwater Sample with No Detection
- DPT Groundwater Sample with Detection
- DPT Groundwater Sample with No Detection

Vinyl Chloride Concentration (ug/L)

- 2 - 49
- 50 - 99
- > 100

- Subzone Boundary
- Sanitary Sewer Line
- Railroad
- Storm Sewer Line

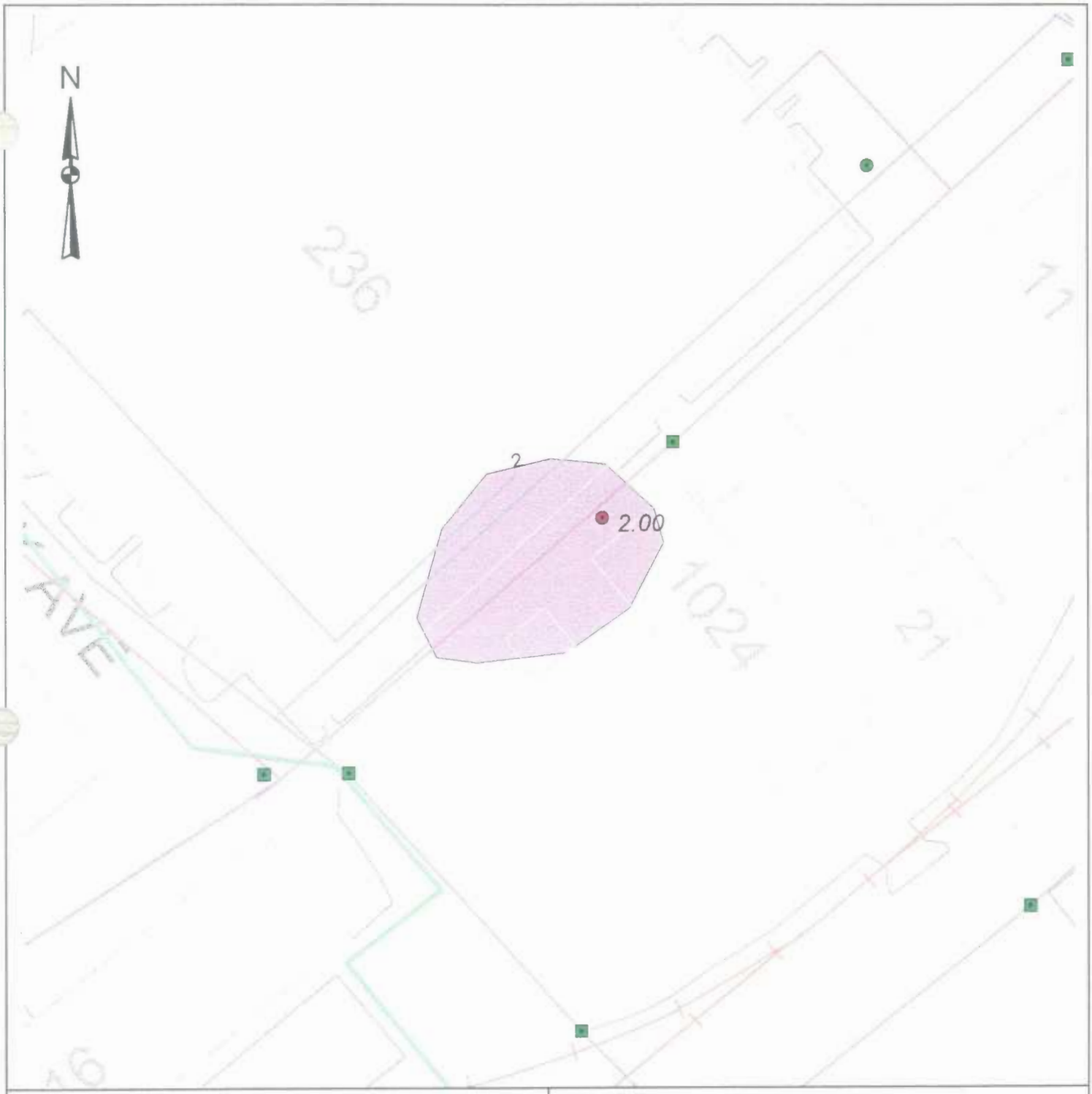
40 0 40 80 Feet

ZONE L - RCRA
FACILITY INVESTIGATION
NAVAL BASE CHARLESTON
CHARLESTON, SC

Figure 10.13.17
Zone L - Subzone E

Vinyl Chloride
Shallow Groundwater Concentration Contours

MCL = 2.00 ug/L



LEGEND

- Monitoring Well Groundwater Sample with Detection
- Monitoring Well Groundwater Sample with No Detection
- DPT Groundwater Sample with Detection
- DPT Groundwater Sample with No Detection

Vinyl Chloride Concentration (ug/L)

- 2 - 49
- 50 - 99
- > 100

Subzone Boundary
Sanitary Sewer Line
Railroad
Storm Sewer Line

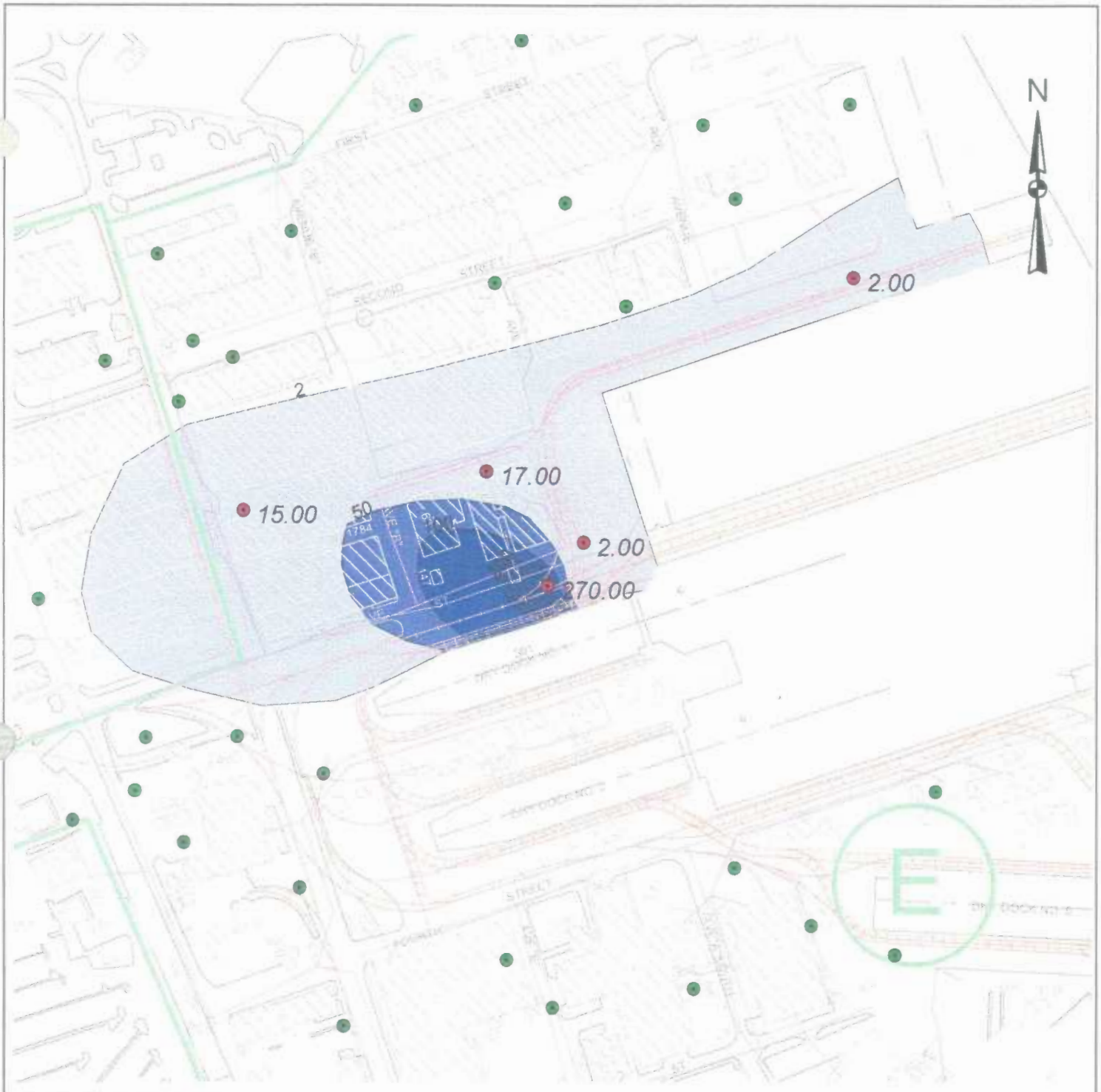
50 0 50 100 Feet

ZONE L - RCRA
FACILITY INVESTIGATION
NAVAL BASE CHARLESTON
CHARLESTON, SC

Figure 10.13.18
Zone L - Subzone E

Vinyl Chloride
Shallow Groundwater Concentration Contours

MCL = 2.00 ug/L



LEGEND

- Monitoring Well Groundwater Sample with Detection
- Monitoring Well Groundwater Sample with No Detection

PCE Concentration (ug/L)

- 2 - 49
- 50 - 99
- 100 - 199
- > 200

- Subzone Boundary
- Railroad
- Sanitary Sewer Line
- Storm Sewer Line

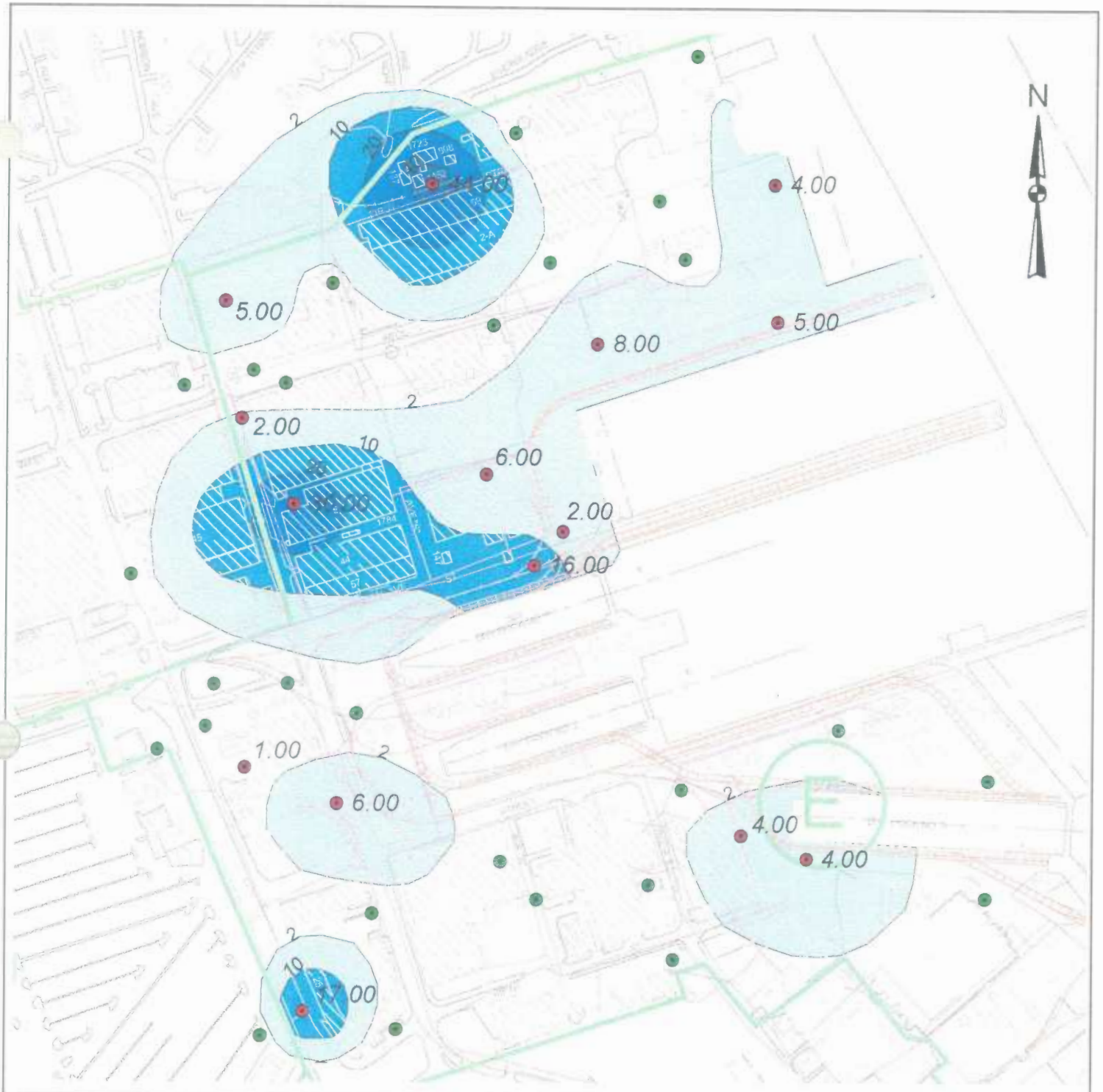
300 0 300 600 Feet

ZONE L - RCRA
FACILITY INVESTIGATION
NAVAL BASE CHARLESTON
CHARLESTON, SC

Figure 10.13.19
Zone L - Subzone E

Tetrachloroethene (PCE)
Deep Groundwater Concentration Contours

MCL = 5.00 ug/L



LEGEND

- Monitoring Well Groundwater Sample with Detection
- Monitoring Well Groundwater Sample with No Detection

TCE Concentration (ug/L)

- 2 - 9
- 10 - 19
- 20 - 39
- > 40

Subzone Boundary
Railroad
Sanitary Sewer Line
Storm Sewer Line

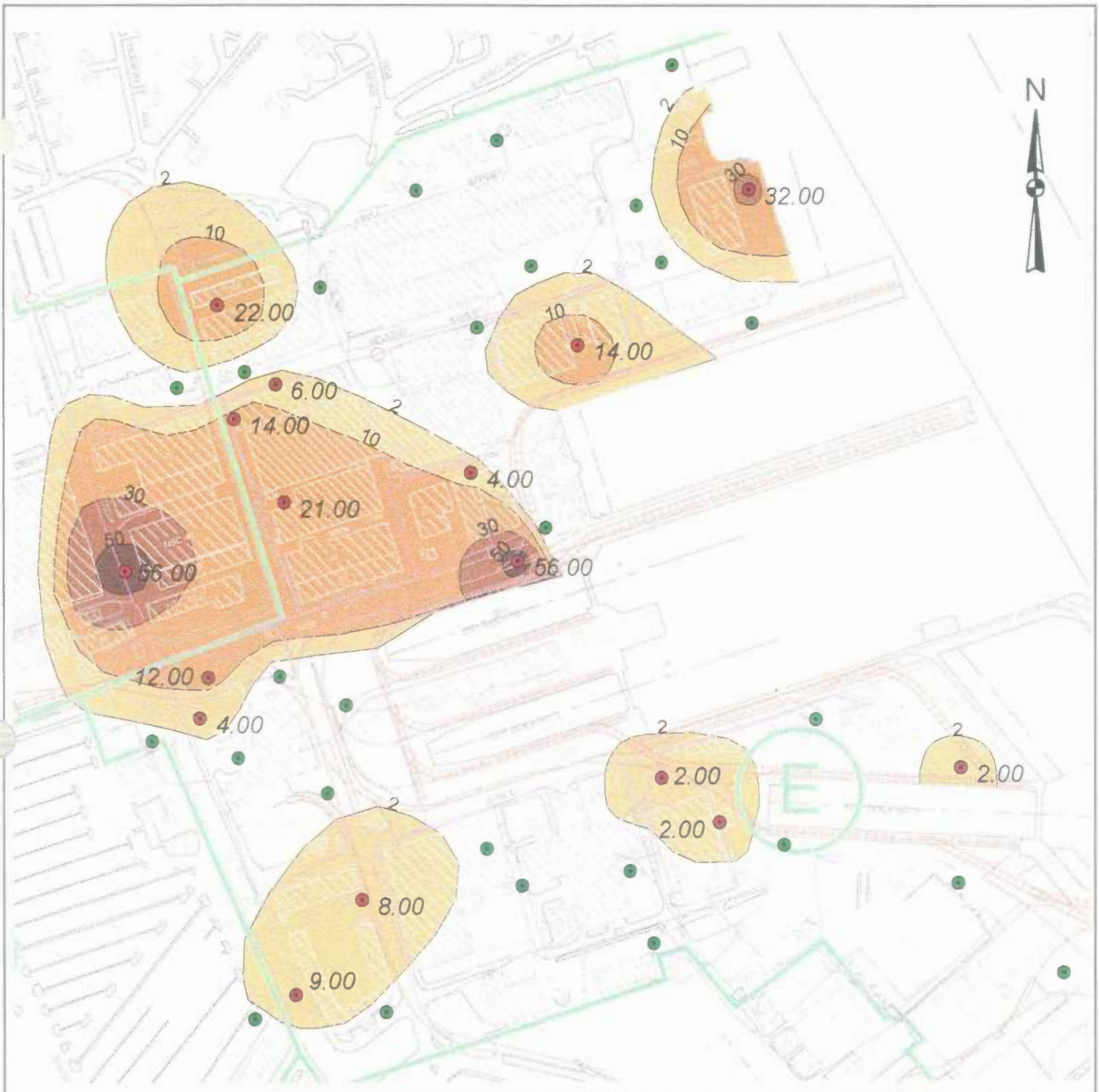
400 0 400 800 Feet

ZONE L - RCRA
FACILITY INVESTIGATION
NAVAL BASE CHARLESTON
CHARLESTON, SC

FIGURE 10.13.20
Zone L - Subzone E

Trichloroethene (TCE)
Deep Groundwater Concentration Contours

MCL = 5.00 ug/L



LEGEND

- Monitoring Well Groundwater Sample with Detection
- Monitoring Well Groundwater Sample with No Detection

DCE Concentration (ug/L)

- 2 - 9
- 10 - 29
- 30 - 49
- > 50

- Subzone Boundary
- Railroad
- Sanitary Sewer Line
- Storm Sewer Line

400 0 400 800 Feet

ZONE L - RCRA
FACILITY INVESTIGATION
NAVAL BASE CHARLESTON
CHARLESTON, SC

Figure 10.13.21
Zone L - Subzone E

1,2-Dichloroethene (total) (DCE)
Deep Groundwater Concentration Contours

MCL = 70.0 ug/L

LEGEND

- Monitoring Well Groundwater Sample with Detection
- Monitoring Well Groundwater Sample with No Detection

Vinyl Chloride Concentration (ug/L)

- > 2

Subzone Boundary
Sanitary Sewer Line
Railroad
Storm Sewer Line

200 0 200 400 Feet

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FA
NA
CH

Fig
Zone

Vi
Deep Groundwat

MC

F

FOOTBALL FIELDS

LEGEND

- Monitoring Well Groundwater Sample with Detection
- Monitoring Well Groundwater Sample with No Detection
- DPT Groundwater Sample with Detection
- DPT Groundwater Sample with No Detection

PCE Concentration (ug/L)

- 10 - 99
- 100 - 999
- 1000 - 9999
- > 10000

- Subzone Boundary
- Sanitary Sewer Line
- Railroad
- Storm Sewer Line

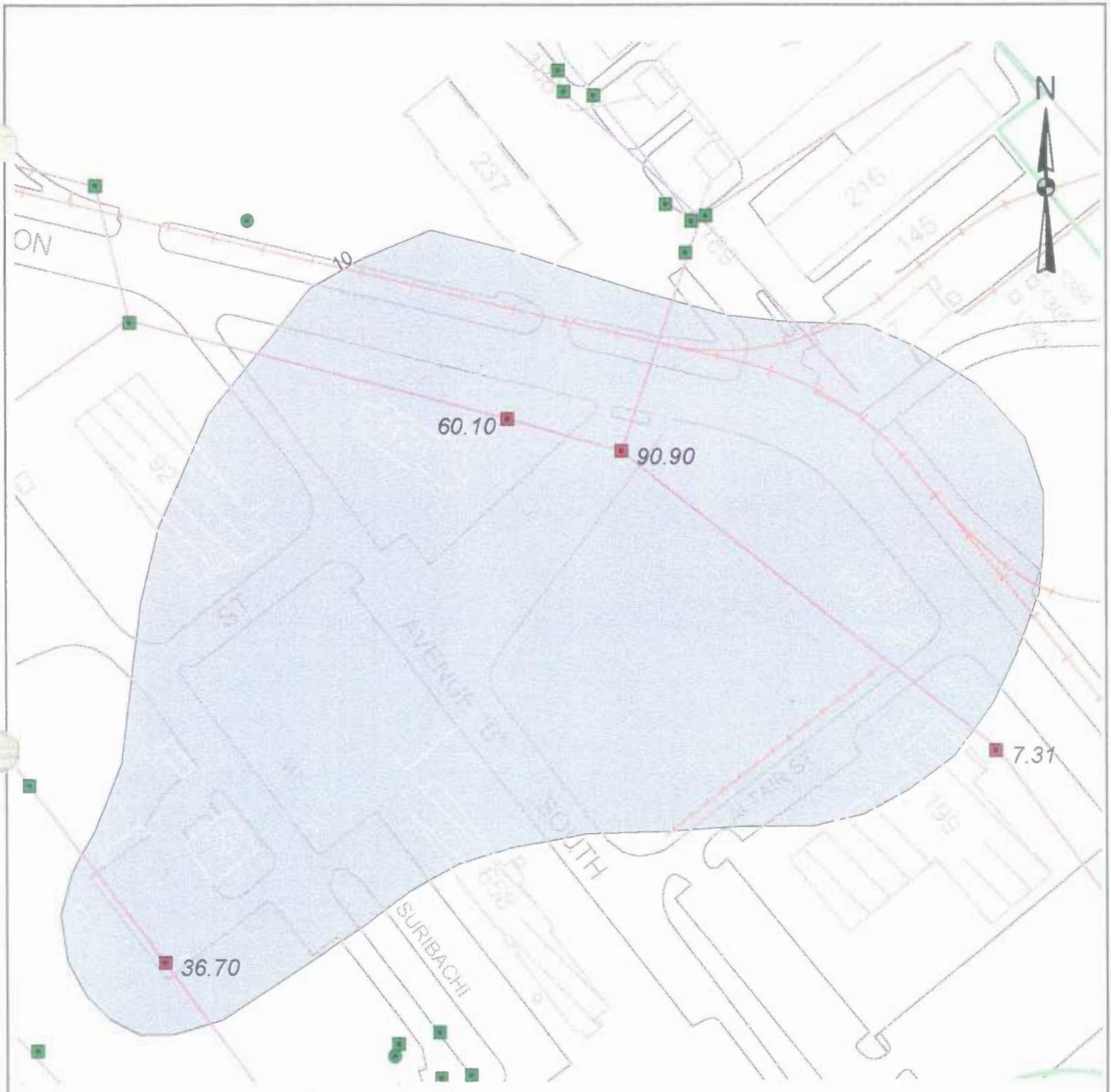
100 0 100 200 Feet

ZONE L - RCRA
FACILITY INVESTIGATION
NAVAL BASE CHARLESTON
CHARLESTON, SC

Figure 10.13.23
Zone L - Subzone F

Tetrachloroethene (PCE)
Shallow Groundwater Concentration Contours

MCL = 5.00 ug/L



LEGEND

- Monitoring Well Groundwater Sample with Detection
- Monitoring Well Groundwater Sample with No Detection
- DPT Groundwater Sample with Detection
- DPT Groundwater Sample with No Detection

PCE Concentration (ug/L)

- 10 - 99
- 100 - 999
- 1000 - 9999
- > 10000

- Subzone Boundary
- Railroad
- Sanitary Sewer Line
- Storm Sewer Line

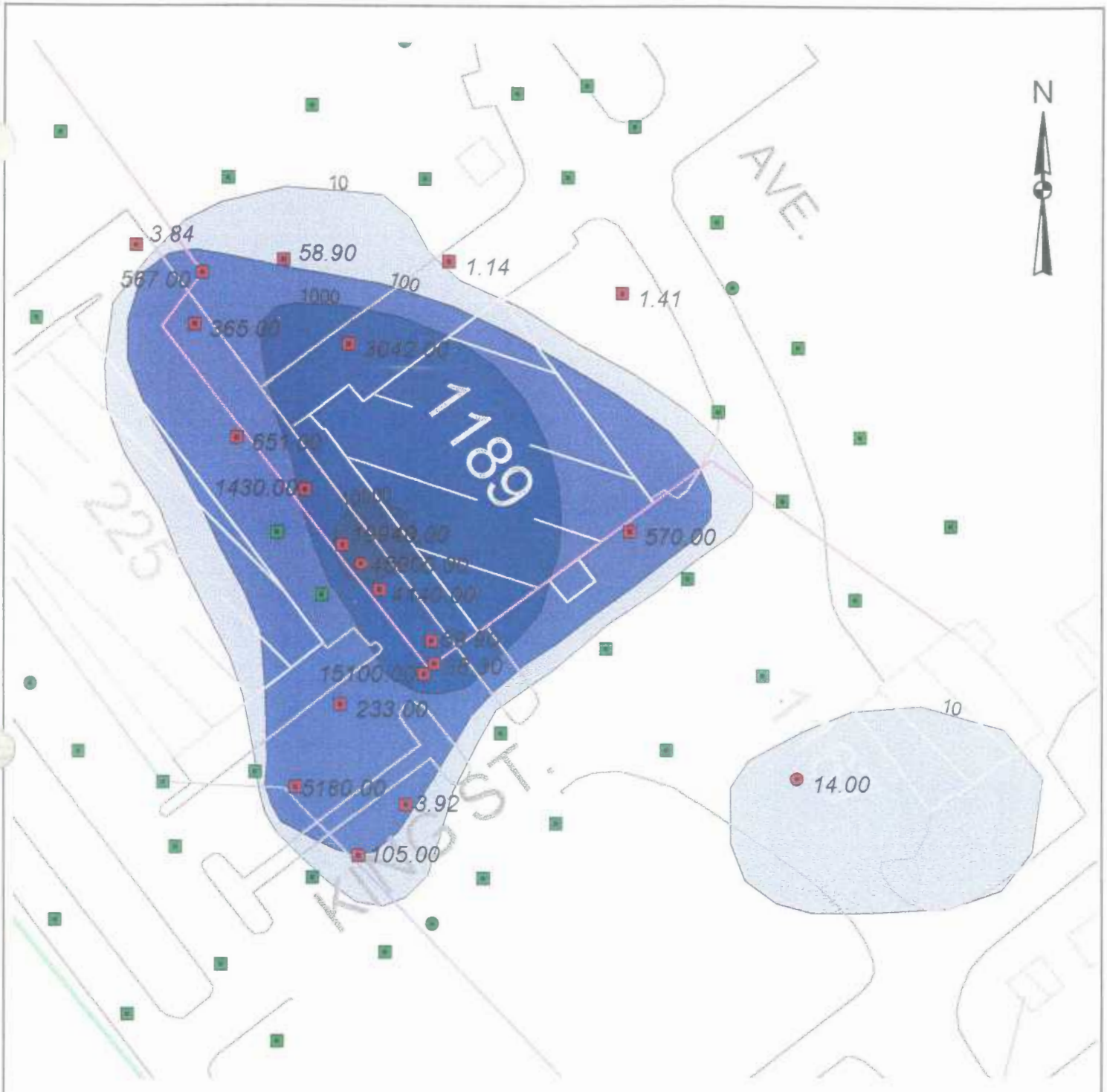
100 0 100 200 Feet

ZONE L - RCRA
FACILITY INVESTIGATION
NAVAL BASE CHARLESTON
CHARLESTON, SC

Figure 10.13.24
Zone L - Subzone F

Tetrachloroethene (PCE)
Shallow Groundwater Concentration Contours

MCL = 5.00 ug/L



LEGEND

- Monitoring Well Groundwater Sample with Detection
- Monitoring Well Groundwater Sample with No Detection
- DPT Groundwater Sample with Detection
- DPT Groundwater Sample with No Detection

PCE Concentration (ug/L)

- 10 - 99
- 100 - 999
- 1000 - 9999
- > 10000

Subzone Boundary
Railroad
Sanitary Sewer Line
Storm Sewer Line

50 0 50 100 Feet

ZONE L - RCRA
FACILITY INVESTIGATION
NAVAL BASE CHARLESTON
CHARLESTON, SC

Figure 10.13.25
Zone L - Subzone F

Tetrachloroethene (PCE)
Shallow Groundwater Concentration Contours

MCL = 5.00 ug/L

F

FOOTBALL FIELDS

P. W. TRAILER SITE

SLAB

89
658
199
235
1173
1171
101
1772
590-A
91
1774
241
1277
1189
225
1167
1265
1346
1263
1981
1764
1172
94
242
715 & 716
1175
240
122
39-D
249
39-A
42
42-A
232
1241
1193
3901-A
148
98
172
3901-B
1489

10
100
500
1000

LEGEND

- Monitoring Well Groundwater Sample with Detection
- Monitoring Well Groundwater Sample with No Detection
- DPT Groundwater Sample with Detection
- DPT Groundwater Sample with No Detection

TCE Concentration (ug/L)

- 10 - 99
- 100 - 499
- 500 - 999
- > 1000

Subzone Boundary
Railroad
Sanitary Sewer Line
Storm Sewer Line

100 0 100 200 Feet

ZONE L - RCRA
FACILITY INVESTIGATION
NAVAL BASE CHARLESTON
CHARLESTON, SC

Figure 10.13.26
Zone L - Subzone F

Trichloroethene (TCE)
Shallow Groundwater Concentration Contours

MCL = 5.00 ug/L

LEGEND

- Monitoring Well Groundwater Sample with Detection
- Monitoring Well Groundwater Sample with No Detection
- DPT Groundwater Sample with Detection
- DPT Groundwater Sample with No Detection

TCE Concentration (ug/L)

- 10 - 99
- 100 - 499
- 500 - 999
- > 1000

Subzone Boundary
Railroad
Sanitary Sewer Line
Storm Sewer Line

50 0 50 100 Feet

ZONE L - RCRA
FACILITY INVESTIGATION
NAVAL BASE CHARLESTON
CHARLESTON, SC

Figure 10.13.27
Zone L - Subzone F

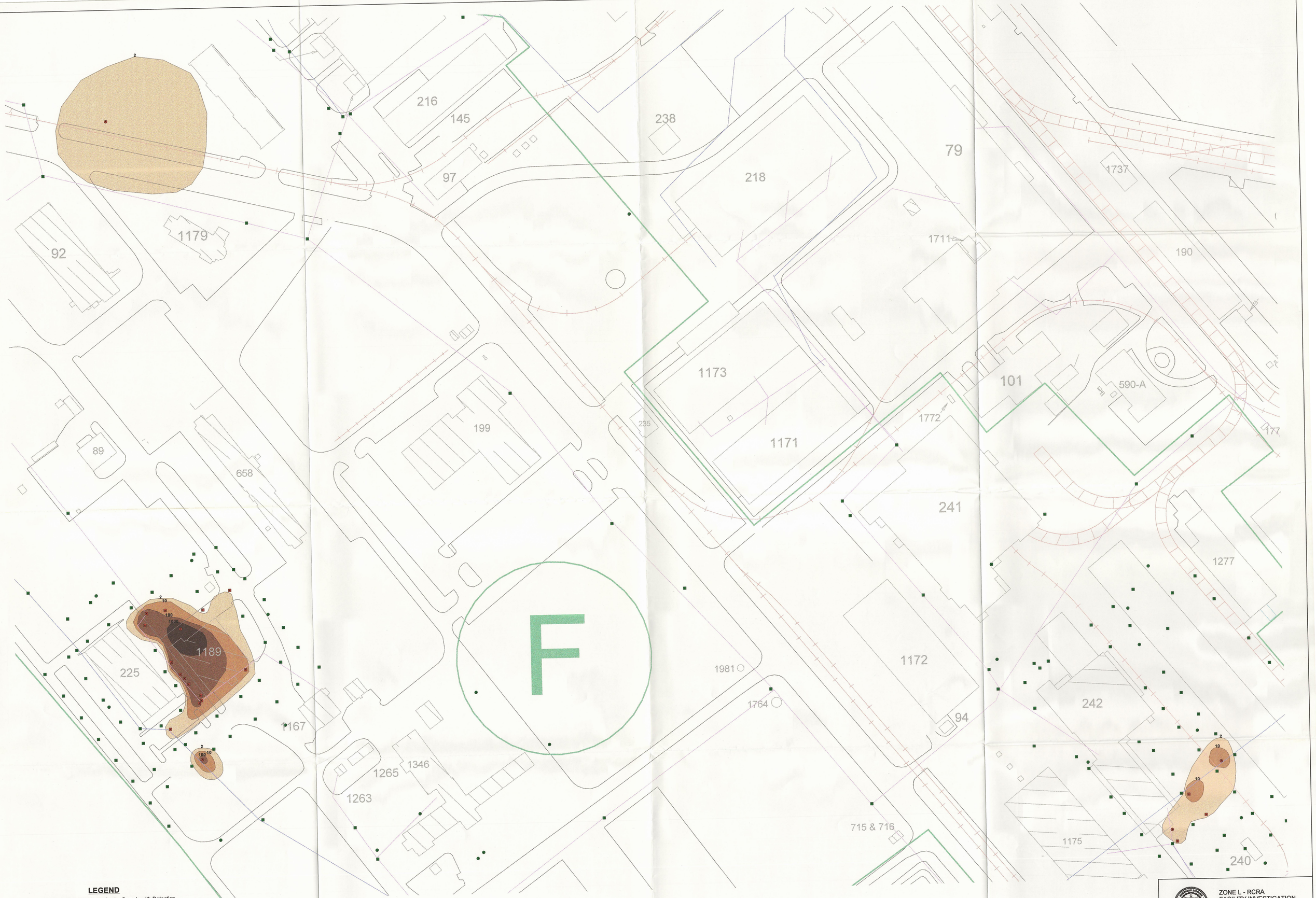
Trichloroethene (TCE)
Shallow Groundwater Concentration Contours

MCL = 5.00 ug/L

Figure 10.13.28 shows all contours for DCE and the area near AOC 607 is shown in Figure 10.13.29. All contours for vinyl chloride are shown in Figure 10.13.30. Figures 10.13.31 and 10.13.32 show areas where Zone L samples had detections for vinyl chloride.

Subzone F Intermediate Groundwater

Contours for PCE, TCE, and DCE are shown in Figures 10.13.33 through 10.13.35. All three figures show the area near AOC 607; however, no Zone L samples were taken at the intermediate interval.



ZONE L - RCRA
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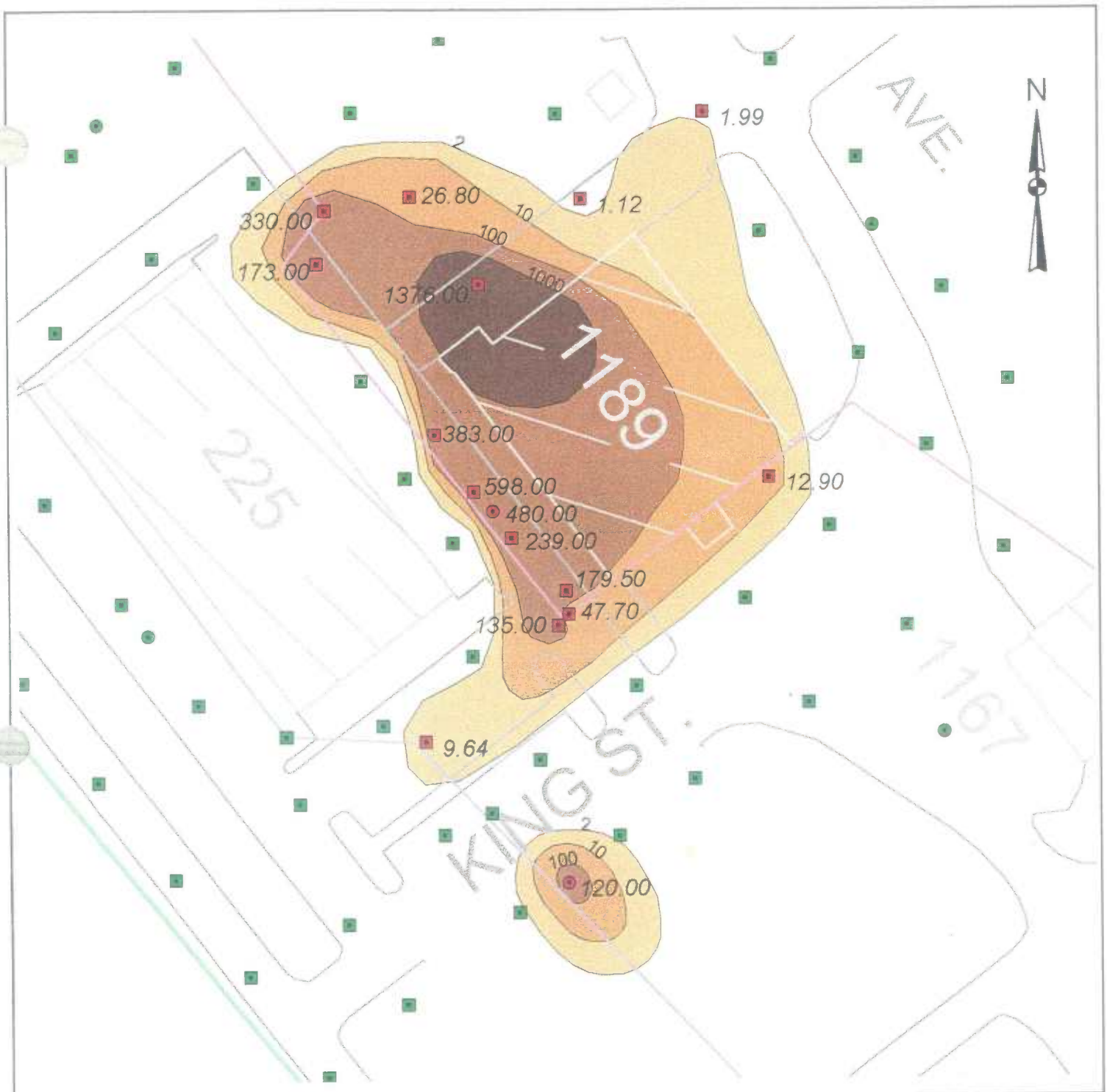
NAVAL BASE CHARLESTON
CHARLESTON, SC

Figure 10.13.28
Zone L - Subzone F

1,2-Dichloroethene (total) (DCE)
Shallow Groundwater Concentration Contours

MCL = 70.0 ug/L



LEGEND

- Monitoring Well Groundwater Sample with Detection
- Monitoring Well Groundwater Sample with No Detection
- DPT Groundwater Sample with Detection
- DPT Groundwater Sample with No Detection

DCE Concentration (ug/L)

- 2 - 9
- 10 - 99
- 100 - 999
- > 1000

- Subzone Boundary
- Railroad
- Sanitary Sewer Line
- Storm Sewer Line

50 0 50 100 Feet

ZONE L - RCRA
FACILITY INVESTIGATION
NAVAL BASE CHARLESTON
CHARLESTON, SC

Figure 10.13.29
Zone L - Subzone F

1,2-Dichloroethene (total) (DCE)
Shallow Groundwater Concentration Contours

MCL = 70.0 ug/L

F

FOOTBALL FIELDS

SLAB

P. W. TRAILER SITE

89
658
199
1173
1171
235
1772
101
590-A
1774
241
1277
1174
1172
1981
1764
94
242
1167
1265
1346
1263
225
1159
715 & 716
1175
240
122
39-D
249
232
69
39-A
42
42-A
1241
1193
3901-A
148
98
172
3901-B
68
1824
1489

LEGEND

- Monitoring Well Groundwater Sample with Detection
- Monitoring Well Groundwater Sample with No Detection
- DPT Groundwater Sample with Detection
- DPT Groundwater Sample with No Detection

Vinyl Chloride Concentration (ug/L)

- 2 - 9
- 10 - 49
- 50 - 99
- > 100

- Subzone Boundary
- Sanitary Sewer Line
- Railroad
- Storm Sewer Line

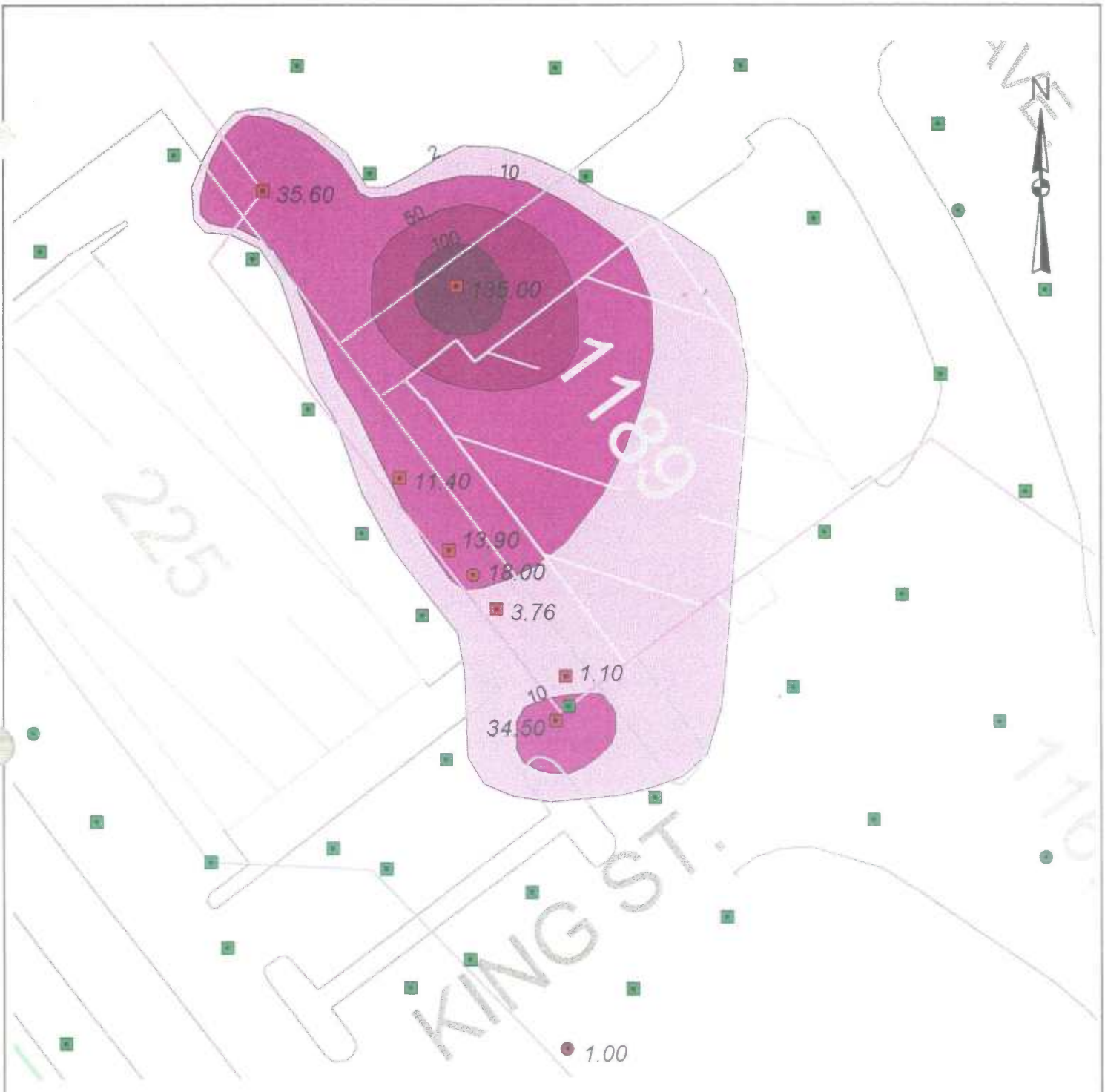
100 0 100 200 Feet

ZONE L - RCRA
FACILITY INVESTIGATION
NAVAL BASE CHARLESTON
CHARLESTON, SC

Figure 10.13.30
Zone L - Subzone F

Vinyl Chloride
Shallow Groundwater Concentration Contours

MCL = 2.00 ug/L



LEGEND

- Monitoring Well Groundwater Sample with Detection
- Monitoring Well Groundwater Sample with No Detection
- DPT Groundwater Sample with Detection
- DPT Groundwater Sample with No Detection

Vinyl Chloride Concentration (ug/L)

- 2 - 9
- 10 - 49
- 50 - 99
- > 100

- Subzone Boundary
- Railroad
- Sanitary Sewer Line
- Storm Sewer Line

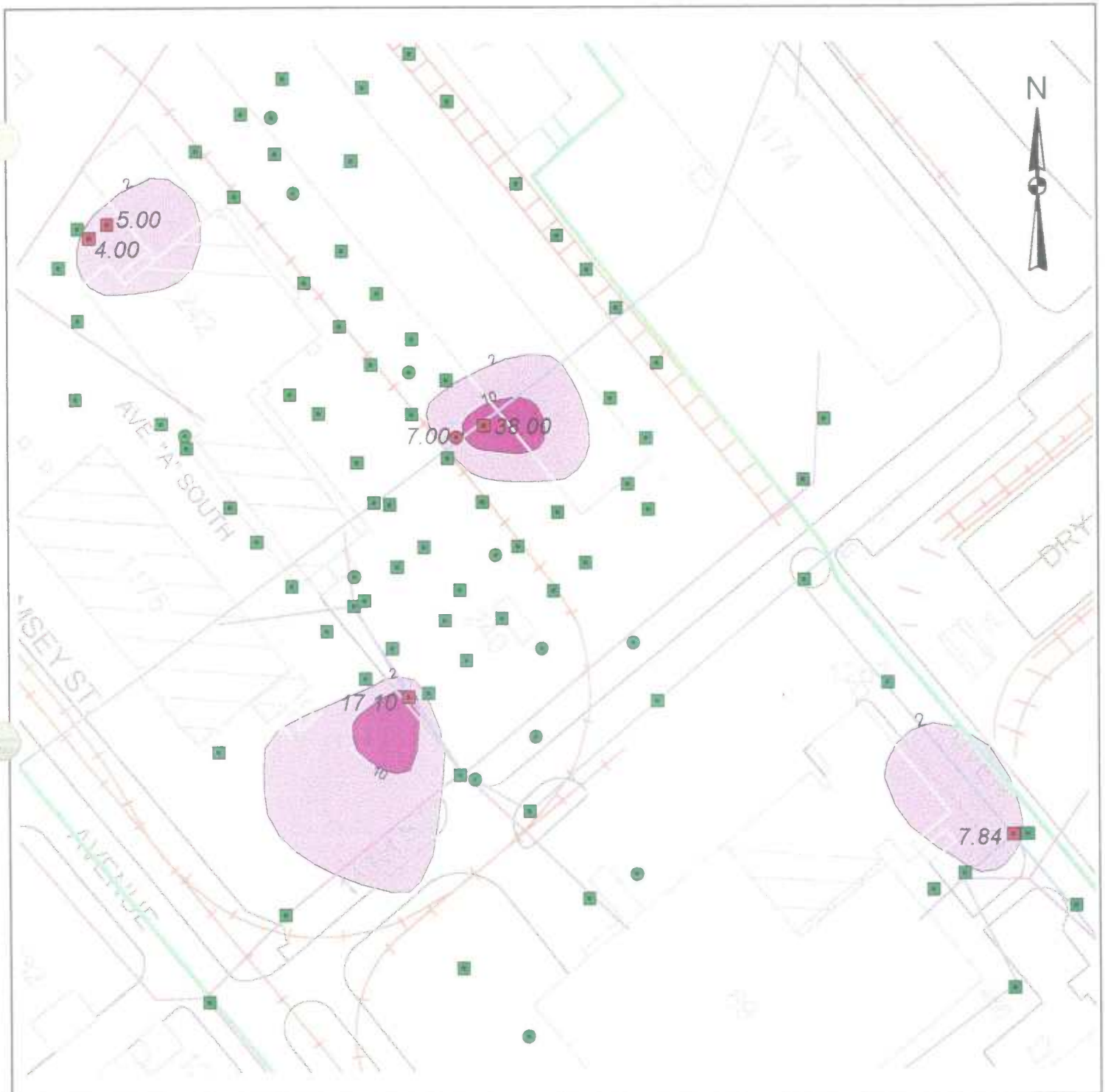
40 0 40 80 Feet

ZONE L - RCRA
FACILITY INVESTIGATION
NAVAL BASE CHARLESTON
CHARLESTON, SC

Figure 10.13.31
Zone L - Subzone F

Vinyl Chloride
Shallow Groundwater Concentration Contours

MCL = 2.00 ug/L



LEGEND

- Monitoring Well Groundwater Sample with Detection
- Monitoring Well Groundwater Sample with No Detection
- DPT Groundwater Sample with Detection
- DPT Groundwater Sample with No Detection

Vinyl Chloride Concentration (ug/L)

- 2 - 9
- 10 - 49
- 50 - 99
- > 100

Subzone Boundary
Sanitary Sewer Line
Railroad
Storm Sewer Line

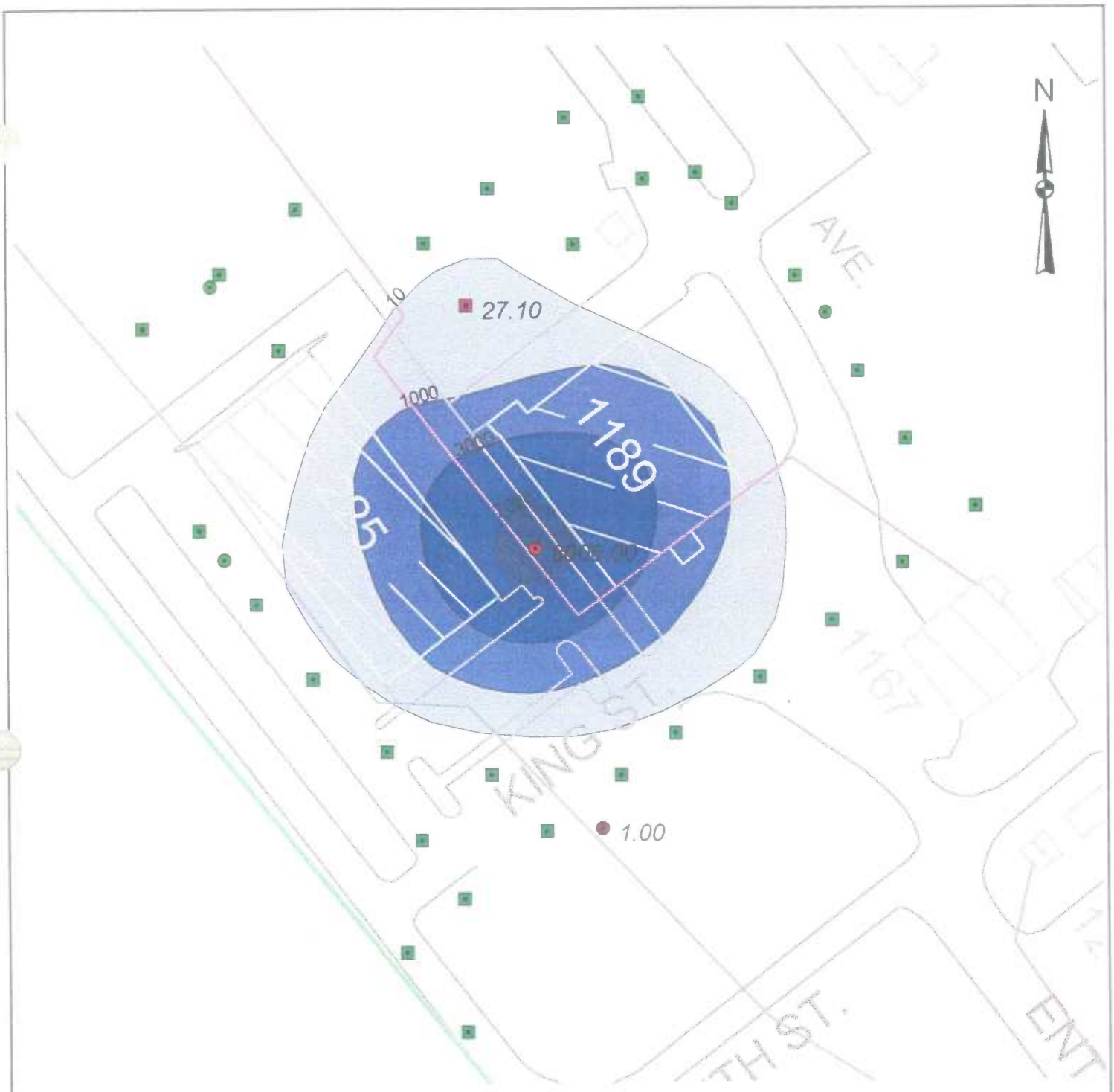
100 0 100 200 Feet

ZONE L - RCRA
FACILITY INVESTIGATION
NAVAL BASE CHARLESTON
CHARLESTON, SC

Figure 10.13.32
Zone L - Subzone F

Vinyl Chloride
Shallow Groundwater Concentration Contours

MCL = 2.00 ug/L



LEGEND

- Monitoring Well Groundwater Sample with Detection
- Monitoring Well Groundwater Sample with No Detection
- DPT Groundwater Sample with Detection
- DPT Groundwater Sample with No Detection

PCE Concentration (ug/L)

- 10 - 999
- 1000 - 2999
- 3000 - 6999
- > 7000

- Subzone Boundary
- Sanitary Sewer Line
- Railroad
- Storm Sewer Line

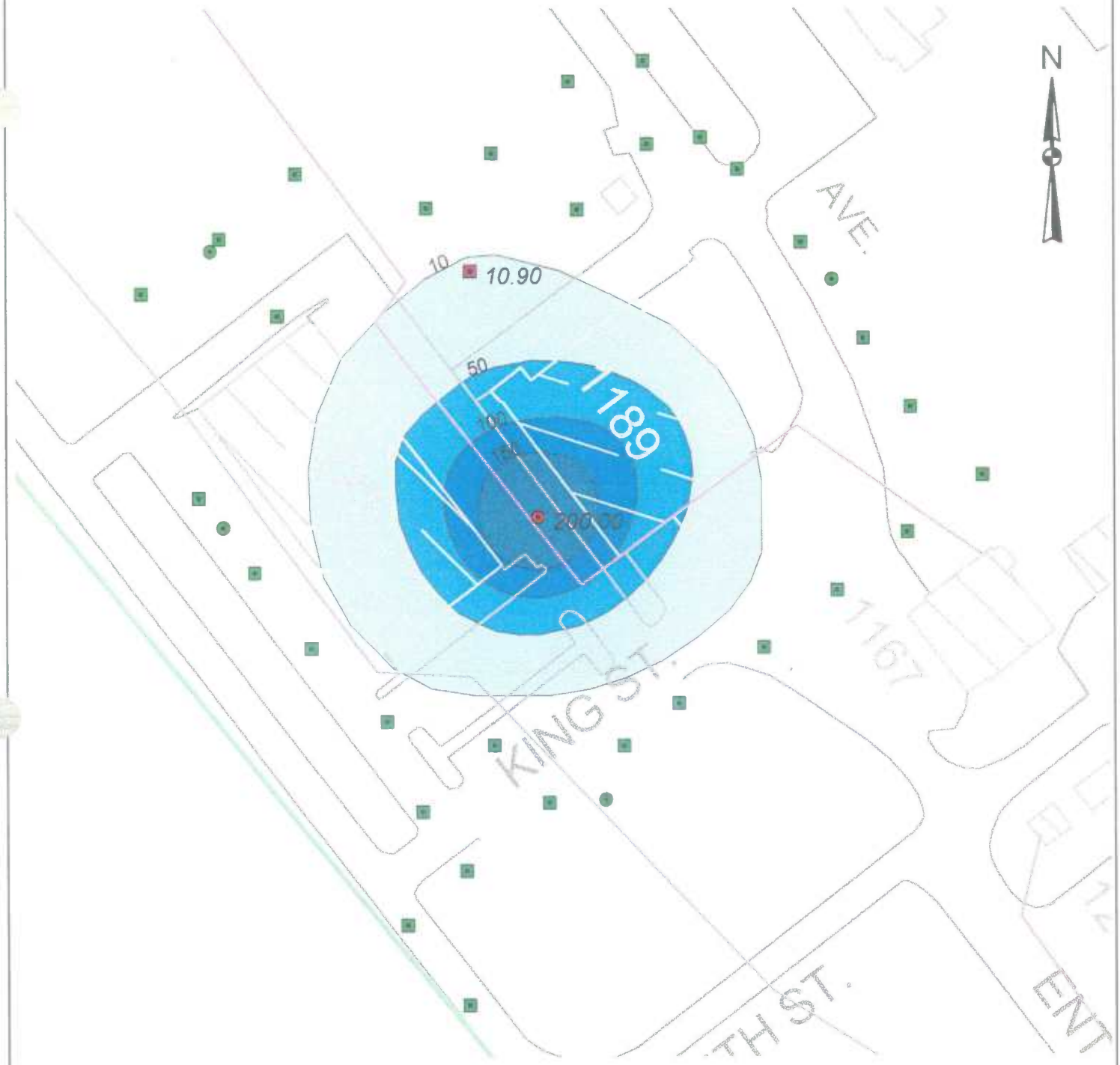
70 0 70 140 Feet

ZONE L - RCRA
FACILITY INVESTIGATION
NAVAL BASE CHARLESTON
CHARLESTON, SC

Figure 10.13.33
Zone L - Subzone F

Tetrachloroethene (PCE)
Intermediate Groundwater Concentration Contours

MCL = 5.00 ug/L



LEGEND

- Monitoring Well Groundwater Sample with Detection
- Monitoring Well Groundwater Sample with No Detection
- DPT Groundwater Sample with Detection
- DPT Groundwater Sample with No Detection

TCE Concentration (ug/L)

- 10 - 49
- 50 - 99
- 100 - 149
- > 150

- Subzone Boundary
- Sanitary Sewer Line
- Railroad
- Storm Sewer Line

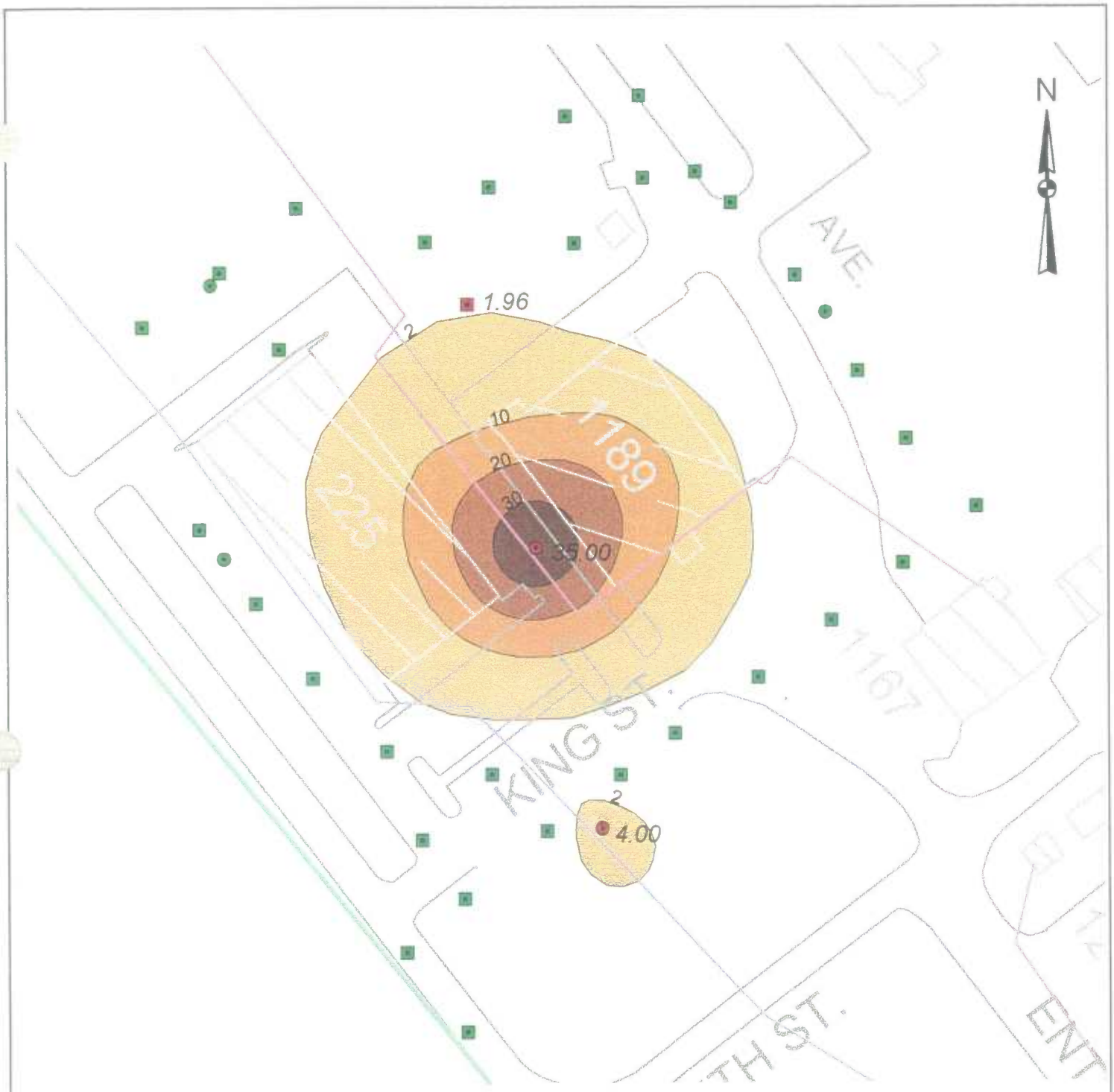
70 0 70 140 Feet

ZONE L - RCRA
FACILITY INVESTIGATION
NAVAL BASE CHARLESTON
CHARLESTON, SC

Figure 10.13.34
Zone L - Subzone F

Trichloroethene (DCE)
Intermediate Groundwater Concentration Contours

MCL = 5.00 ug/L



LEGEND

- Monitoring Well Groundwater Sample with Detection
- Monitoring Well Groundwater Sample with No Detection
- DPT Groundwater Sample with Detection
- DPT Groundwater Sample with No Detection

DCE Concentration (ug/L)

- 2 - 9
- 10 - 19
- 20 - 29
- > 30

Subzone Boundary
Sanitary Sewer Line
Railroad
Storm Sewer Line

70 0 70 140 Feet

ZONE L - RCRA
FACILITY INVESTIGATION
NAVAL BASE CHARLESTON
CHARLESTON, SC

Figure 10.13.35
Zone L - Subzone F

1,2-Dichloroethene (total) (DCE)
Intermediate Groundwater Concentration Contours

MCL = 70.0 ug/L

TO BE FILED

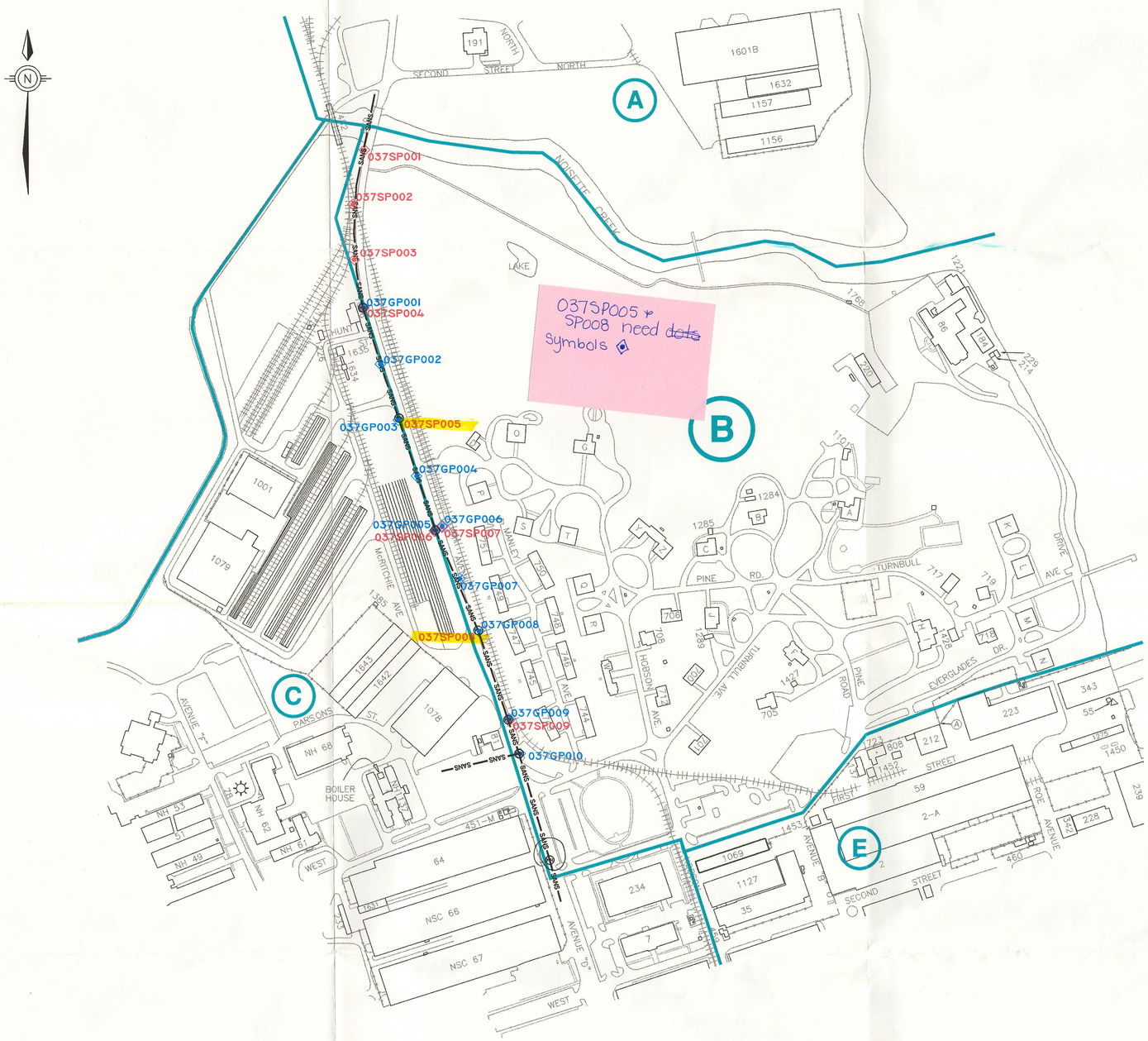
IN DRAFT

ZONE L SEC. 10

(If there is already a copy in report, TRASH)

1/2/01

Julie



LEGEND:

- 037GP003 — DPT GROUNDWATER SAMPLE W/ ID NUMBER
- 037SP003 — DPT SOIL SAMPLE W/ ID NUMBER
- SANITARY SEWER MANHOLE
- SANS — SANITARY SEWER LINE
- B — STUDY ZONE BOUNDARY WITH LETTER DESIGNATION

0 100 200 400 600
SCALE IN FEET

REVISIONS		
Rev Number:	Rev Date:	Rev By:
Rev Number:	Rev Date:	Rev By:
Rev Number:	Rev Date:	Rev By:
Rev Number:	Rev Date:	Rev By:
Rev Number:	Rev Date:	Rev By:

ZONE L
RCRA FACILITY
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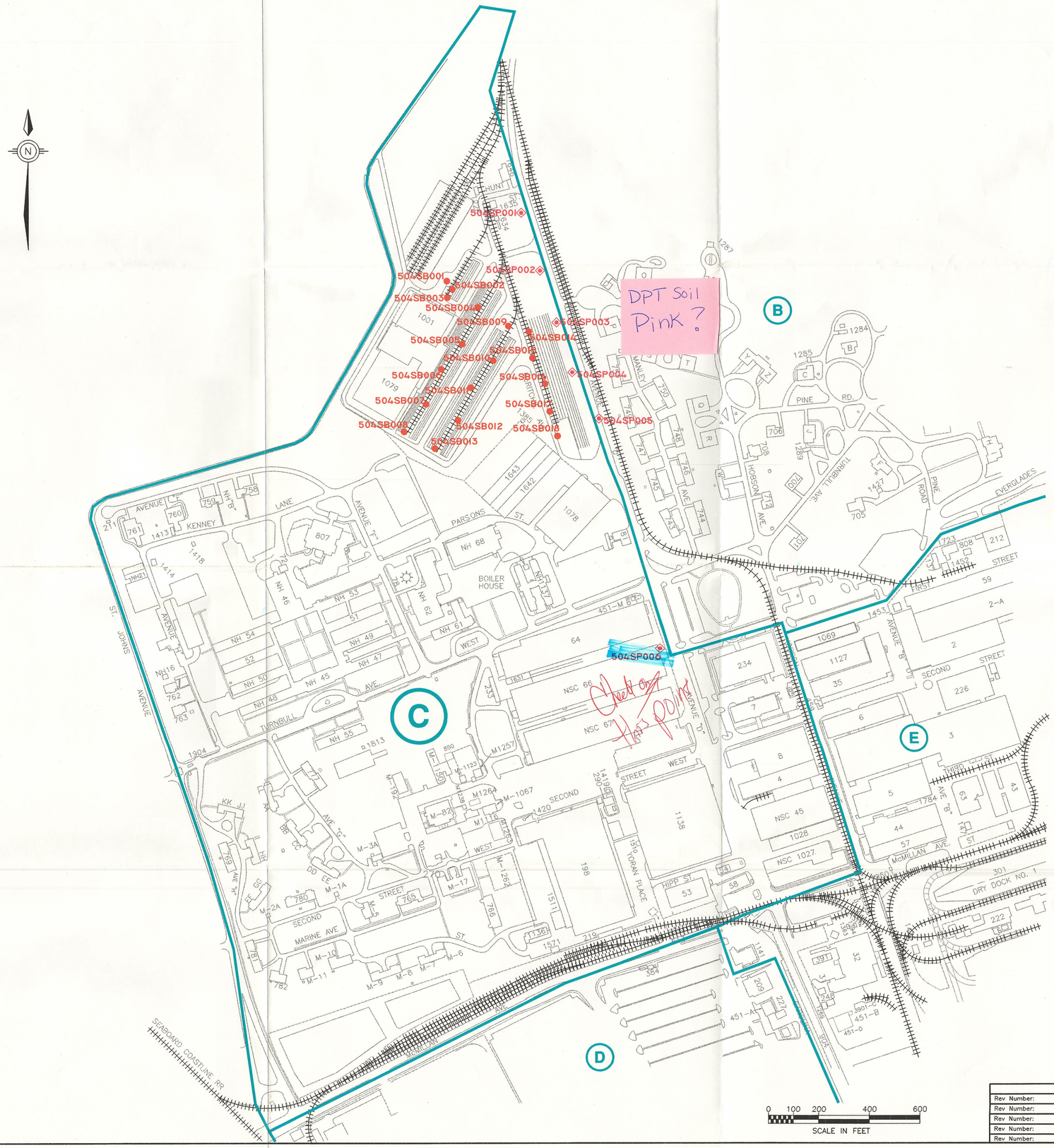
NAVAL BASE CHARLESTON
CHARLESTON, SC

FIGURE 10.2.3
SWMU 37 (SANITARY SEWER SYSTEM)
SAMPLING LOCATIONS
SUBZONE B

Dr by: W. FAULK	Tr by: –		
Ck by: C. VERNOY	Appr by: T. HAVERKOST	Sheet 1	
Date: 11/23/98	DWG Name: 2912C030	Of 1	



LEGEND:

- 504SB005 ● SOIL BORING W/ ID NUMBER
- 504SP003 ◈ DPT SOIL SAMPLE W/ ID NUMBER
- RAILROAD
- (C) STUDY ZONE BOUNDARY WITH LETTER DESIGNATION

Pink ?
DPT soil

REVISIONS		
Rev Number:	Rev Date:	Rev By:
Rev Number:	Rev Date:	Rev By:
Rev Number:	Rev Date:	Rev By:
Rev Number:	Rev Date:	Rev By:
Rev Number:	Rev Date:	Rev By:

ZONE L
RCRA FACILITY
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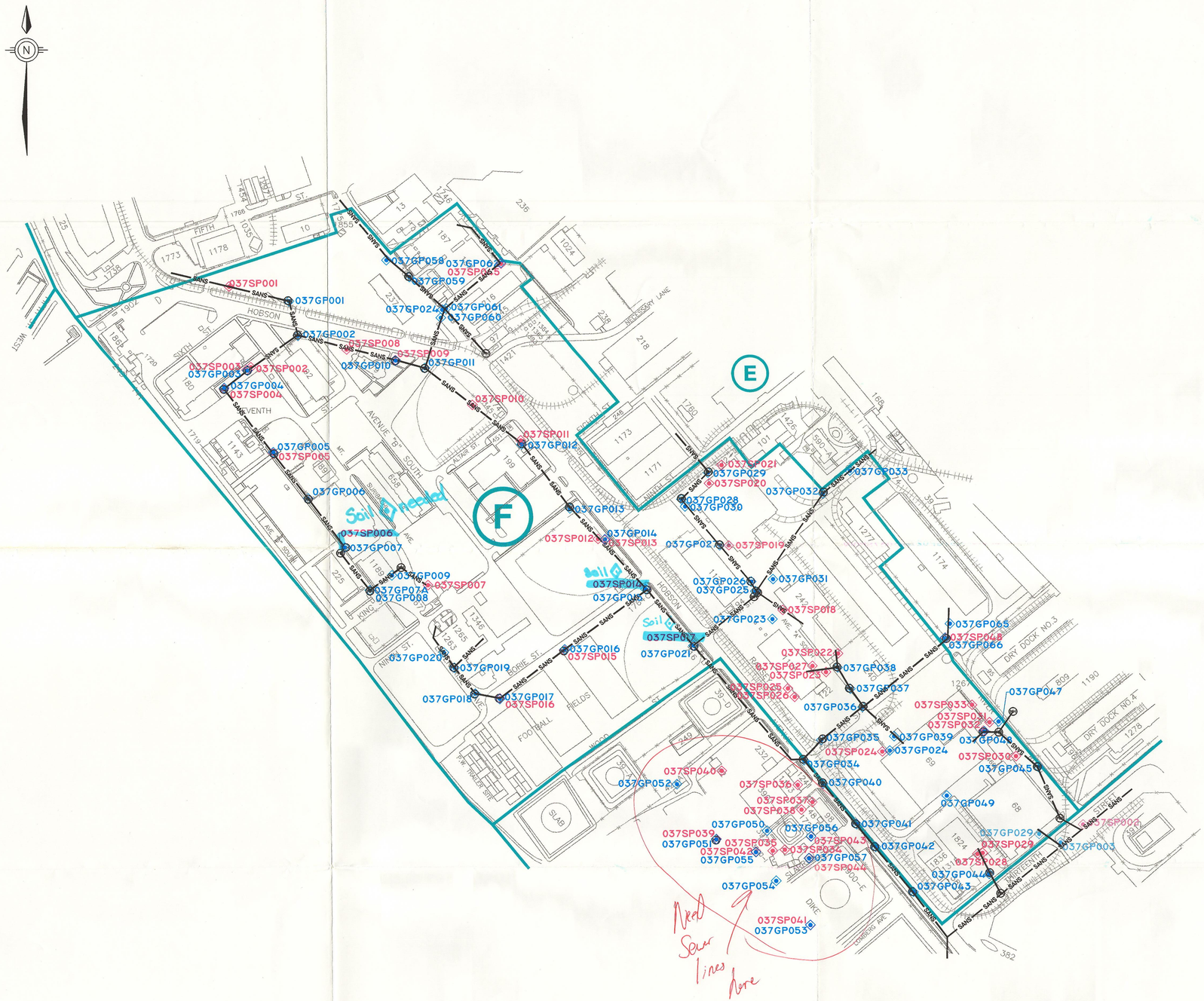
NAVAL BASE CHARLESTON
CHARLESTON, SC

FIGURE 10.3.8
AOC 504 (RAIL SYSTEM)
SAMPLING LOCATIONS
SUBZONE C

Dr by: W. FAULK	Tr by: —	
Ck by: C. VERNOY	Appr by: T. HAVERKOST	Sheet 1
Date: 11/23/98	DWG Name: 2912C039	Of 1



LEGEND:

- 037GP023 — DPT GROUNDWATER SAMPLE W/ ID NUMBER
- 037SP033 — DPT SOIL SAMPLE W/ ID NUMBER
- SANITARY SEWER MANHOLE
- —SANS— SANITARY SEWER LINE
- (F) STUDY ZONE BOUNDARY WITH LETTER DESIGNATION

NOTE:

SAMPLES FROM ADJACENT ZONES SHOWN FOR REFERENCE IN LIGHTER COLOR

REVISIONS		
Rev Number:	Rev Date:	Rev By:
Rev Number:	Rev Date:	Rev By:
Rev Number:	Rev Date:	Rev By:
Rev Number:	Rev Date:	Rev By:
Rev Number:	Rev Date:	Rev By:

ZONE L
RCRA FACILITY
INVESTIGATION REPORT
NAVAL BASE CHARLESTON
CHARLESTON, SC

FIGURE 10.6.3
SWMU 37 (SANITARY SEWER SYSTEM)
SAMPLING LOCATIONS
SUBZONE F

Dr by: W. FAULK		Tr by: —	
Ck by: C. VERNOY		Appr by: T. HAVERKOST	Sheet 1
Date: 11/24/98	DWG Name: 2912C072		Of 1