SOLUTIA-147

US EPA RECORDS CENTER REGION 5
1013513

SAUGET AREA 2,
SAUGET, ILLINOIS

REMEDIAL INVESTIGATION/ FEASIBILITY STUDY REPORT VOLUME 2

Tables and Figures

Prepared for

Sauget Area 2 Sites Group
c/o Gary Uphoff
Environmental Management Services
5934 Nicklaus Drive
Fort Collins, CO 80528

January 30, 2004

URS

URS Corporation
1001 Highland Plaza Drive West, Suite 300
St. Louis, MO 63110
(314) 429-0100
Project #21560888.07001

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SAUGET, ILLINOIS

REMEDIAL INVESTIGATION/ FEASIBILITY STUDY REPORT VOLUME 2

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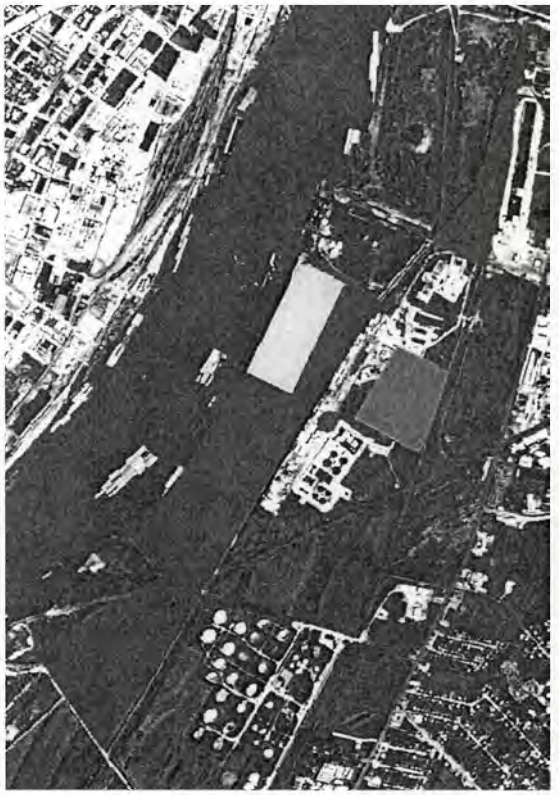

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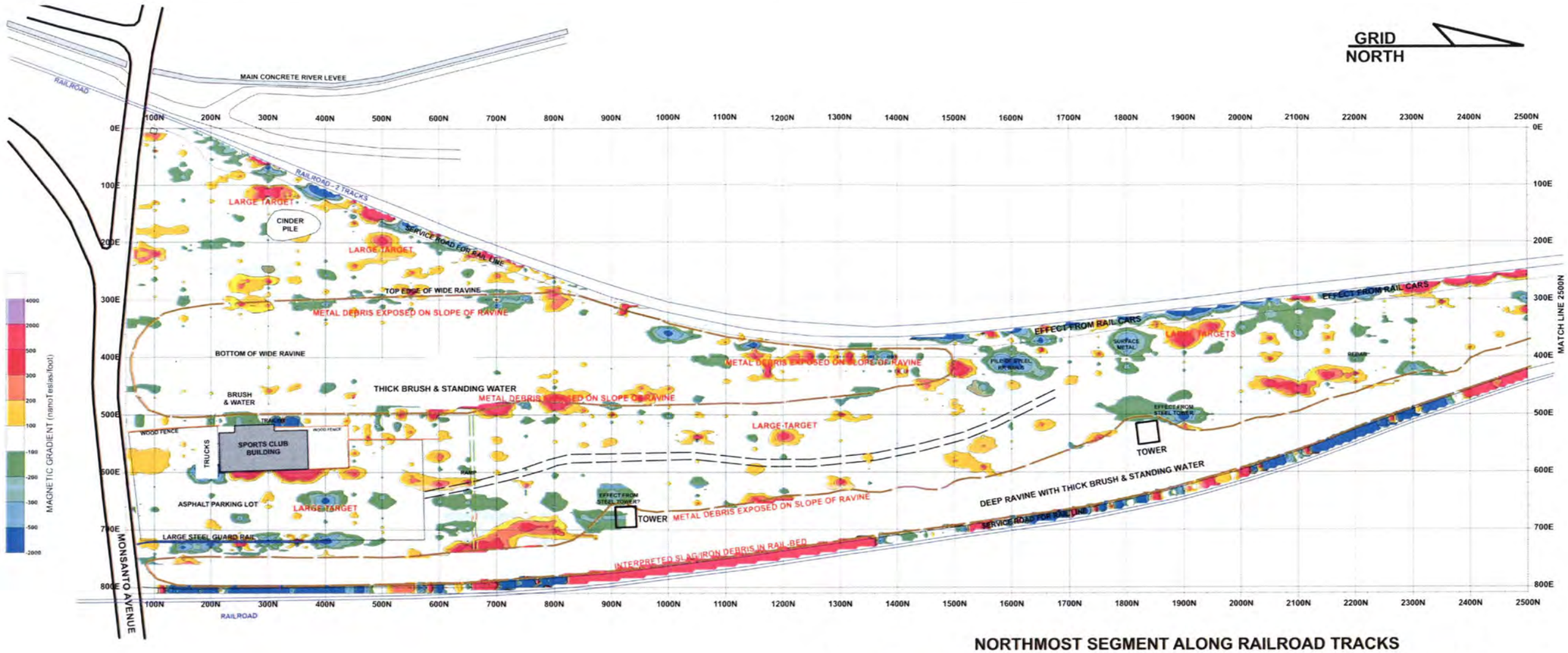
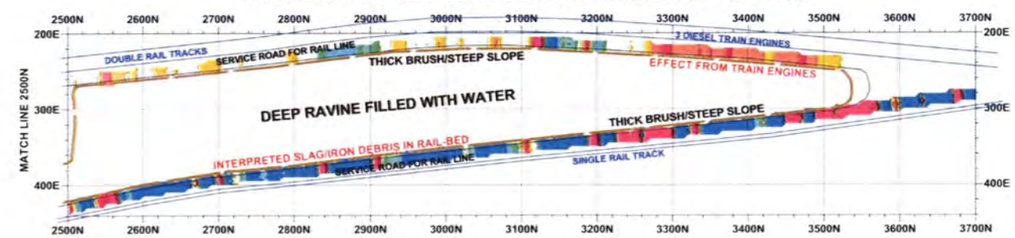


NORTHMOST SEGMENT ALONG RAILROAD TRACKS



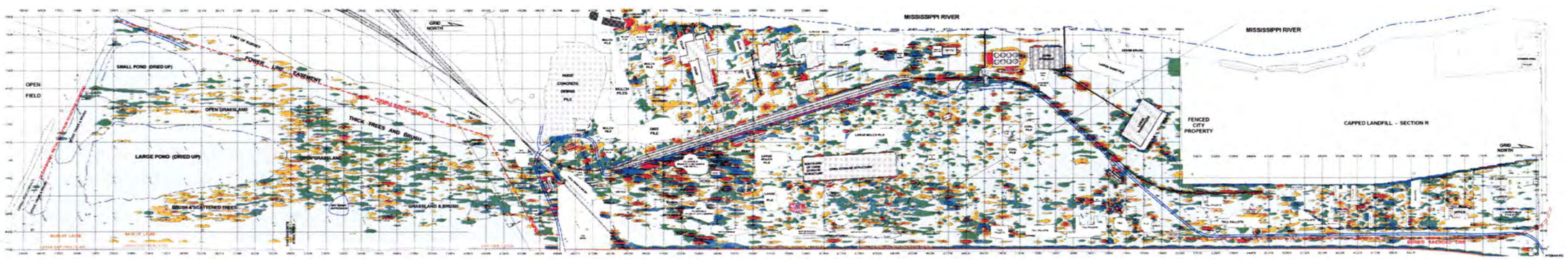
MAP SCALE (feet)

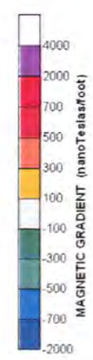
0 50 100 150 200 250 300 350 400 450 500

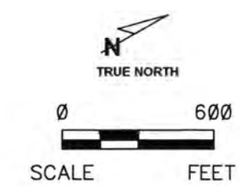
SOURCE:
MAP TAKEN FROM GEOSPHERE, INC. (2002)

SAUGET AREA 2 RI/FS SAUGET ILLINOIS	PROJECT NO. 21560888.07001
URS	
DRN. BY:djd 10/7/03 DSGN. BY:bh CHKD. BY:	Site P Magnetometer Survey
	FIG. NO. 5-1a

File: E:\21560888.0400\REPORTS\RI_FS REPORT\5-1A.DWG Last edited: 12/18/03 @ 4:53 p.m. WC-ST.LOUIS, MO







SOURCE:
MAP TAKEN FROM GEOSPHERE, INC. (2002)

SAUGET AREA 2 RI/FS SAUGET ILLINOIS	PROJECT NO. 21560888.07001
URS	
DRN. BY:djd 10/7/03 DSGN. BY:bh CHKD. BY:	Site Q Complete Magnetometer Survey
	FIG. NO. 5-1b

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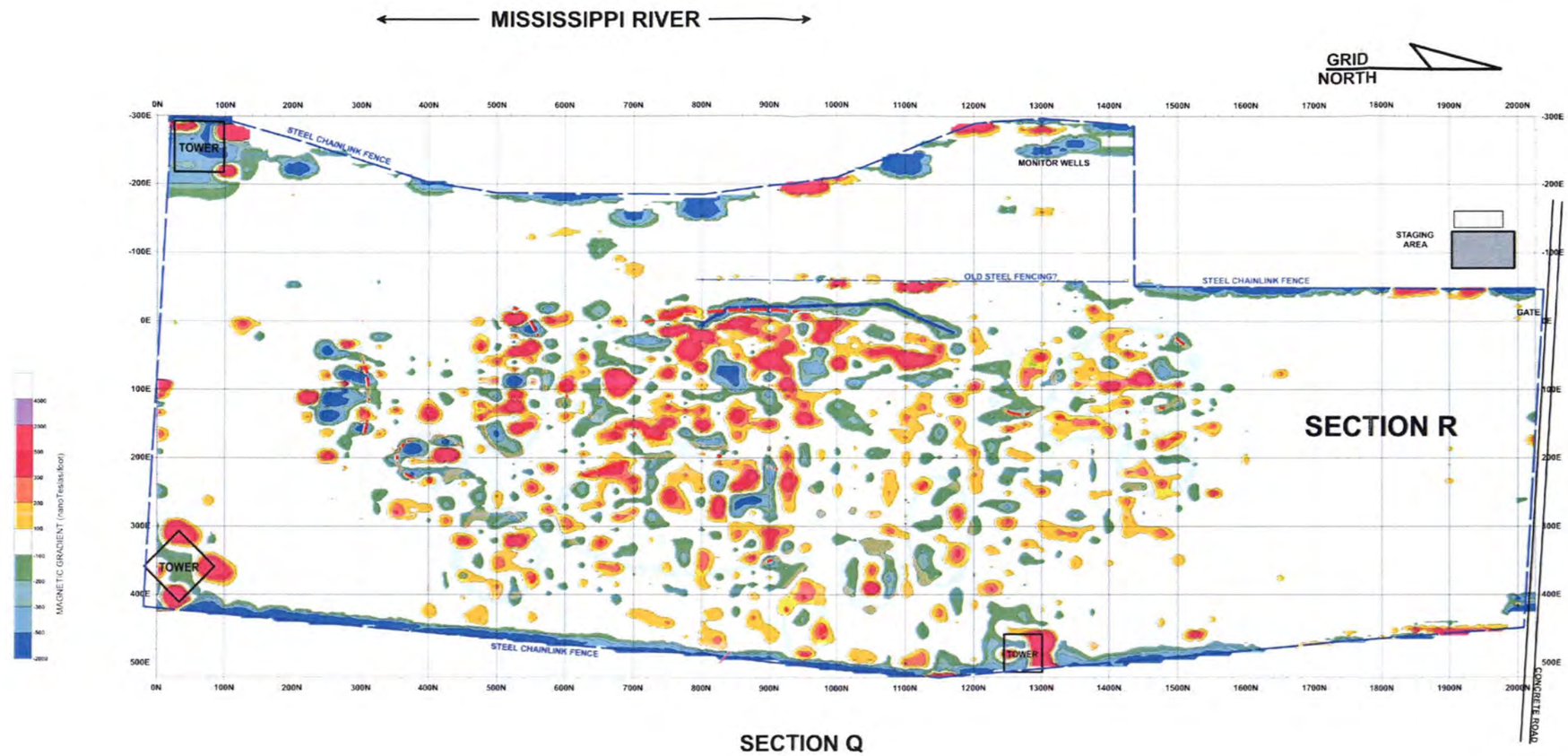

MAP SCALE (feet)

0 50 100 150 200 250 300 350 400 450 500

SOURCE:
MAP TAKEN FROM GEOSPHERE, INC. (2002)

SAUGET AREA 2 RI/FS SAUGET ILLINOIS	PROJECT NO. 21560888.07001
URS	
DRN. BY:djd 10/7/03 DSGN. BY:bh CHKD. BY:	Site R Magnetometer Survey
	FIG. NO. 5-1c

File: E:\21560888.04001\REPORTS\RI_FS REPORT\5-1C.DWG Last edited: 12/16/03 @ 4:55 p.m. WC-ST.LOUIS, MO

WAREHOUSES

ASPHALT/CONCRETE ROADWAY

STEEL FENCE

FENCED GRAVEL AREA

WOODED AREA

GATE

STEEL CHAINLINK FENCE

GRAVEL

THICK BRUSH

GRID NORTH

GATE

-2000 -500 -300 -200 -100 100 200 300 500 2000 4000

MAGNETIC GRADIENT (nanoTeslas/foot)

MAP SCALE (feet)

0 20 40 60 80 100 120

SOURCE:
MAP TAKEN FROM GEOSPHERE, INC. (2002)

SAUGET AREA 2 RI/FS SAUGET ILLINOIS	PROJECT NO. 21560888.07001
URS	
DRN. BY:djd 10/7/03 DSGN. BY:bh CHKD. BY:	Site S Magnetometer Survey
	FIG. NO. 5-1d

File: E:\21560888.04001\REPORTS\RI_FS REPORT\5-10.DWG Last edited: 11/25/03 @ 12:36 p.m. WC-ST.LOUIS, MO

WASTE-P-1
WASTE-P-2
WASTE-P-3
WASTE-P-4
WASTE-R-1
WASTE-R-2
WASTE-Q-1
WASTE-R-3
WASTE-R-4
WASTE-Q-2
WASTE-Q-3
WASTE-Q-4
WASTE-Q-5
WASTE-O-1
WASTE-O-2
WASTE-S-1
WASTE-S-2
WASTE-O-3
WASTE-Q-6
WASTE-Q-7
WASTE-Q-8
WASTE-Q-9
WASTE-Q-10
WASTE-Q-11
WASTE-Q-12
Mississippi River
N
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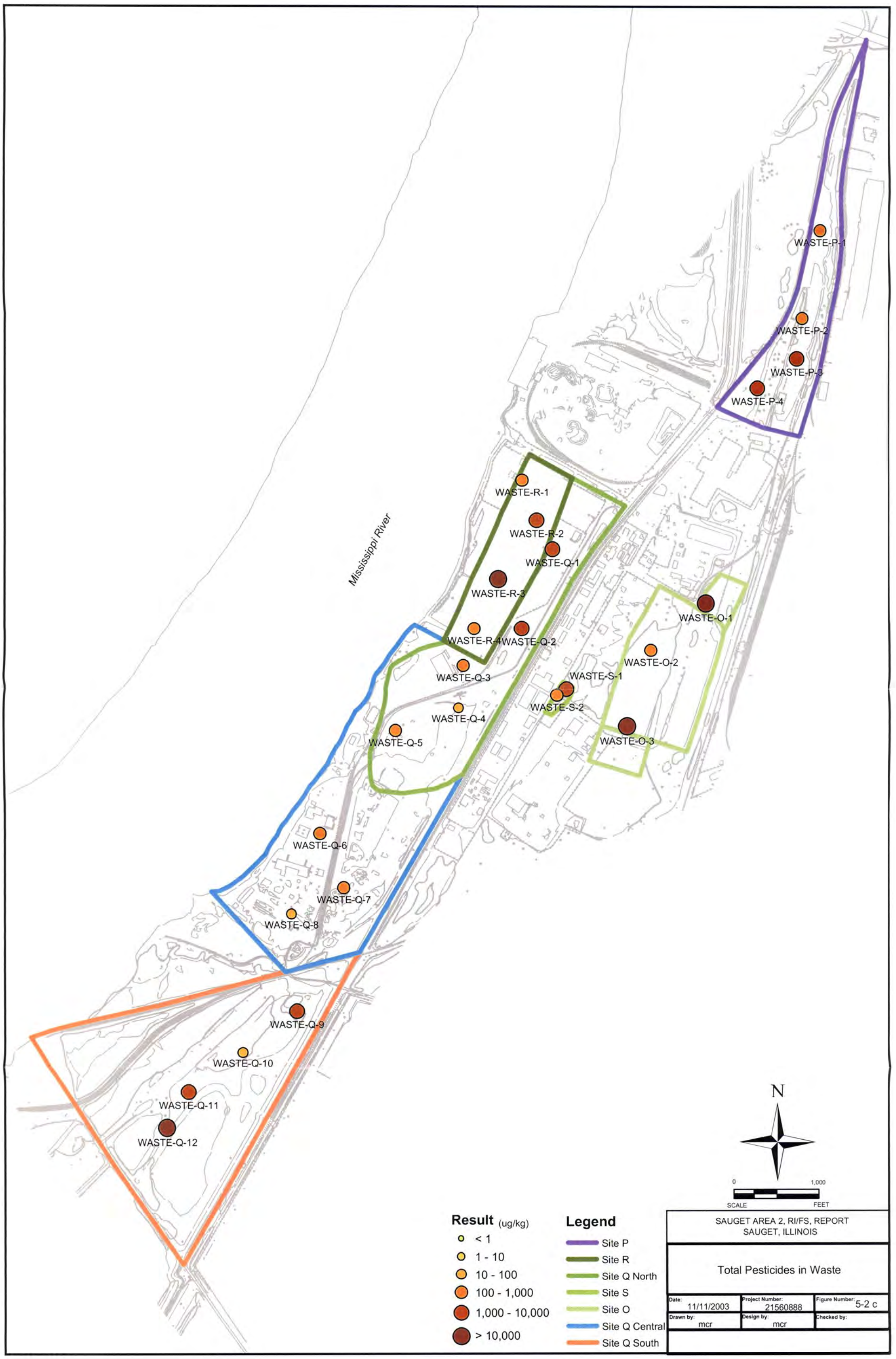
1,000
SCALE
FEET
Result (ug/kg)
< 1
1 - 10
10 - 100
100 - 1,000
1,000 - 10,000
> 10,000
Legend
Site P
Site R
Site Q North
Site S
Site O
Site Q Central
Site Q South
SAUGET AREA 2, RI/FS, REPORT
SAUGET, ILLINOIS
Total VOCs in Waste
Date: 11/11/2003
Project Number: 21560888
Figure Number: 5-2 a
Drawn by: mcr
Design by: mcr
Checked by:

SAUGET AREA 2, RI/FS, REPORT
SAUGET, ILLINOIS

Total SVOCs in Waste

Date:	Project Number:	Figure Number:
11/11/2003	21560888	5-2 b
Drawn by: mcr	Design by: mcr	Checked by:


WASTE-P-1
WASTE-P-2
WASTE-P-3
WASTE-P-4
WASTE-R-1
WASTE-R-2
WASTE-Q-1
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WASTE-R-4
WASTE-Q-2
WASTE-Q-3
WASTE-Q-4
WASTE-Q-5
WASTE-O-1
WASTE-O-2
WASTE-S-1
WASTE-S-2
WASTE-O-3
WASTE-Q-6
WASTE-Q-7
WASTE-Q-8
WASTE-Q-9
WASTE-Q-10
WASTE-Q-11
WASTE-Q-12
Mississippi River
N
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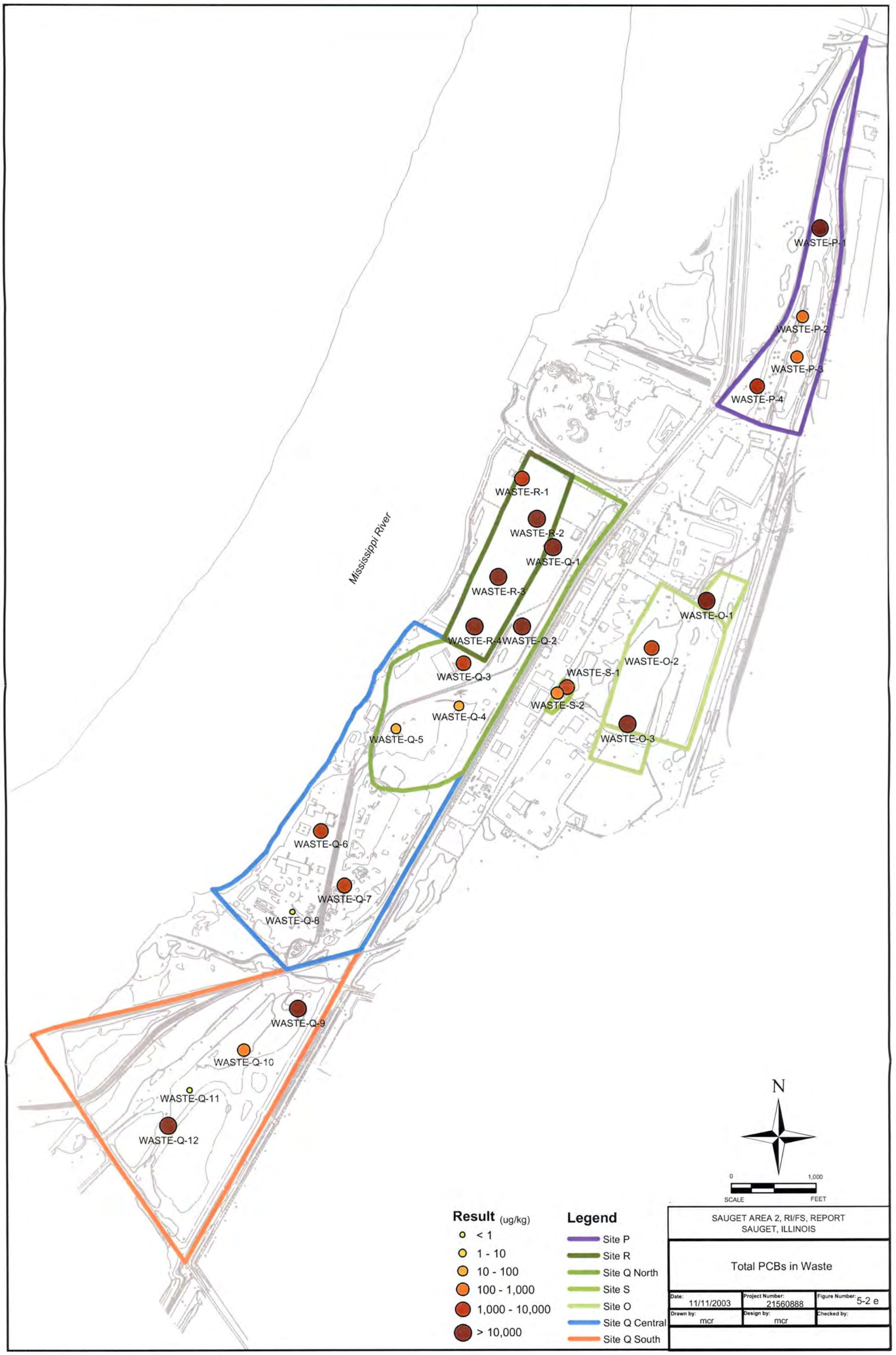
1,000
SCALE
FEET
Result (ug/kg)
< 1
1 - 10
10 - 100
100 - 1,000
1,000 - 10,000
> 10,000
Legend
Site P
Site R
Site Q North
Site S
Site O
Site Q Central
Site Q South
SAUGET AREA 2, RI/FS, REPORT
SAUGET, ILLINOIS
Total Pesticides in Waste
Date: 11/11/2003
Project Number: 21560888
Figure Number: 5-2 c
Drawn by: mcr
Design by: mcr
Checked by:

SAUGET AREA 2, RI/FS, REPORT
SAUGET, ILLINOIS

Total Herbicides in Waste

Date:	Project Number:	Figure Number:
11/11/2003	21560888	5-2 d
Drawn by: mcr	Design by: mcr	Checked by:


WASTE-P-1
WASTE-P-2
WASTE-P-3
WASTE-P-4
WASTE-R-1
WASTE-R-2
WASTE-Q-1
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WASTE-R-4
WASTE-Q-2
WASTE-Q-3
WASTE-Q-4
WASTE-Q-5
WASTE-O-1
WASTE-O-2
WASTE-S-1
WASTE-S-2
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WASTE-Q-6
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WASTE-Q-10
WASTE-Q-11
WASTE-Q-12
Mississippi River
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SCALE
FEET
Result (ug/kg)
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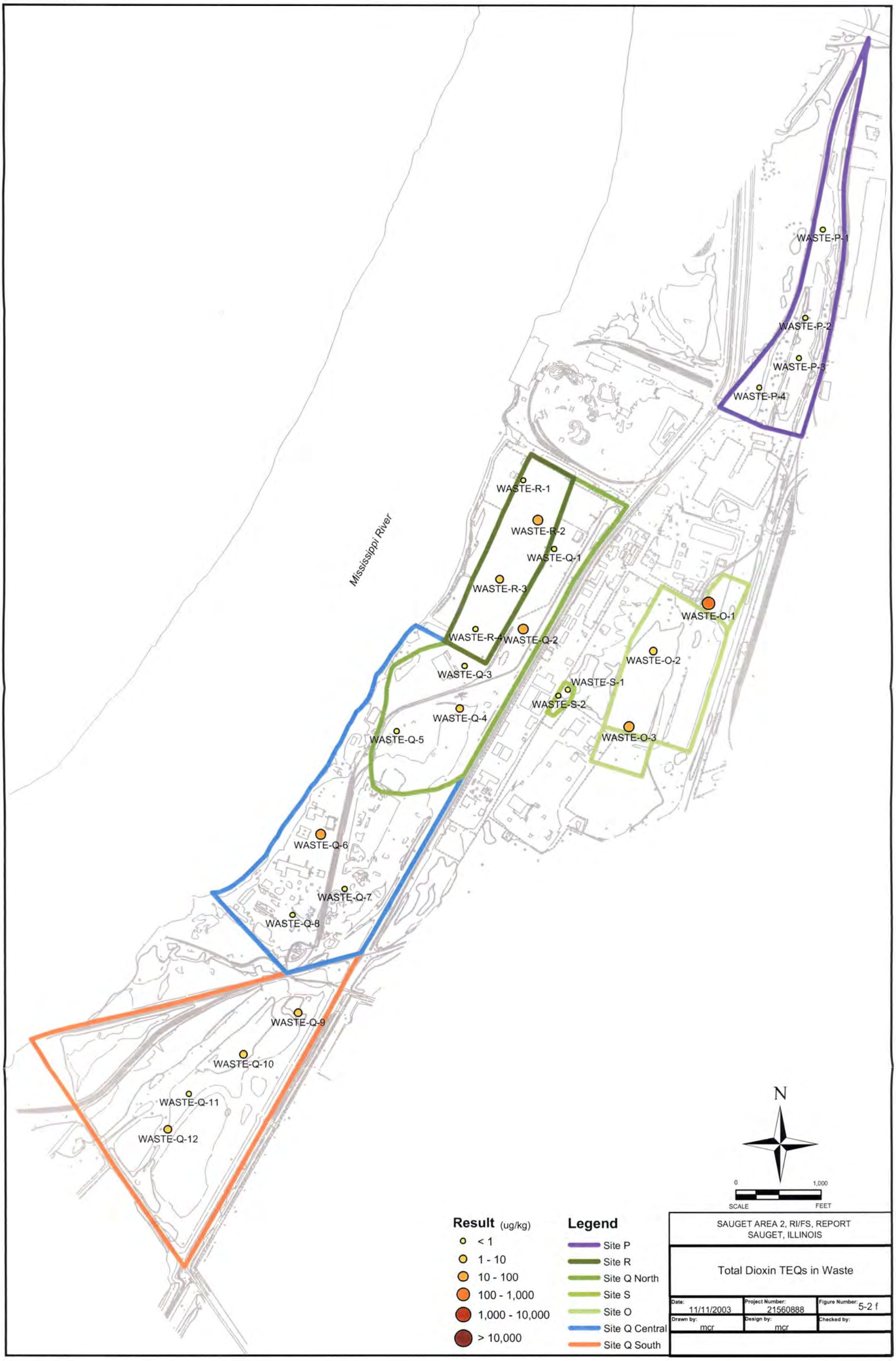
10 - 100
100 - 1,000
1,000 - 10,000
> 10,000
Legend
Site P
Site R
Site Q North
Site S
Site O
Site Q Central
Site Q South
SAUGET AREA 2, RI/FS, REPORT
SAUGET, ILLINOIS
Total PCBs in Waste
Date: 11/11/2003
Project Number: 21560888
Figure Number: 5-2 e
Drawn by: mcr
Design by: mcr
Checked by: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WASTE-P-4
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WASTE-Q-1
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WASTE-R-4
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WASTE-Q-3
WASTE-Q-4
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WASTE-S-2
WASTE-O-3
Mississippi River
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WASTE-Q-7
WASTE-Q-8
WASTE-Q-9
WASTE-Q-10
WASTE-Q-11
WASTE-Q-12
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SCALE
FEET
Result (ug/kg)
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10 - 100
100 - 1,000
1,000 - 10,000
> 10,000
Legend
Site P
Site R
Site Q North
Site S
Site O
Site Q Central
Site Q South
SAUGET AREA 2, RI/FS, REPORT
SAUGET, ILLINOIS
Total Dioxin TEQs in Waste
Date: 11/11/2003
Project Number: 21560888
Figure Number: 5-2 f
Drawn by: mcr
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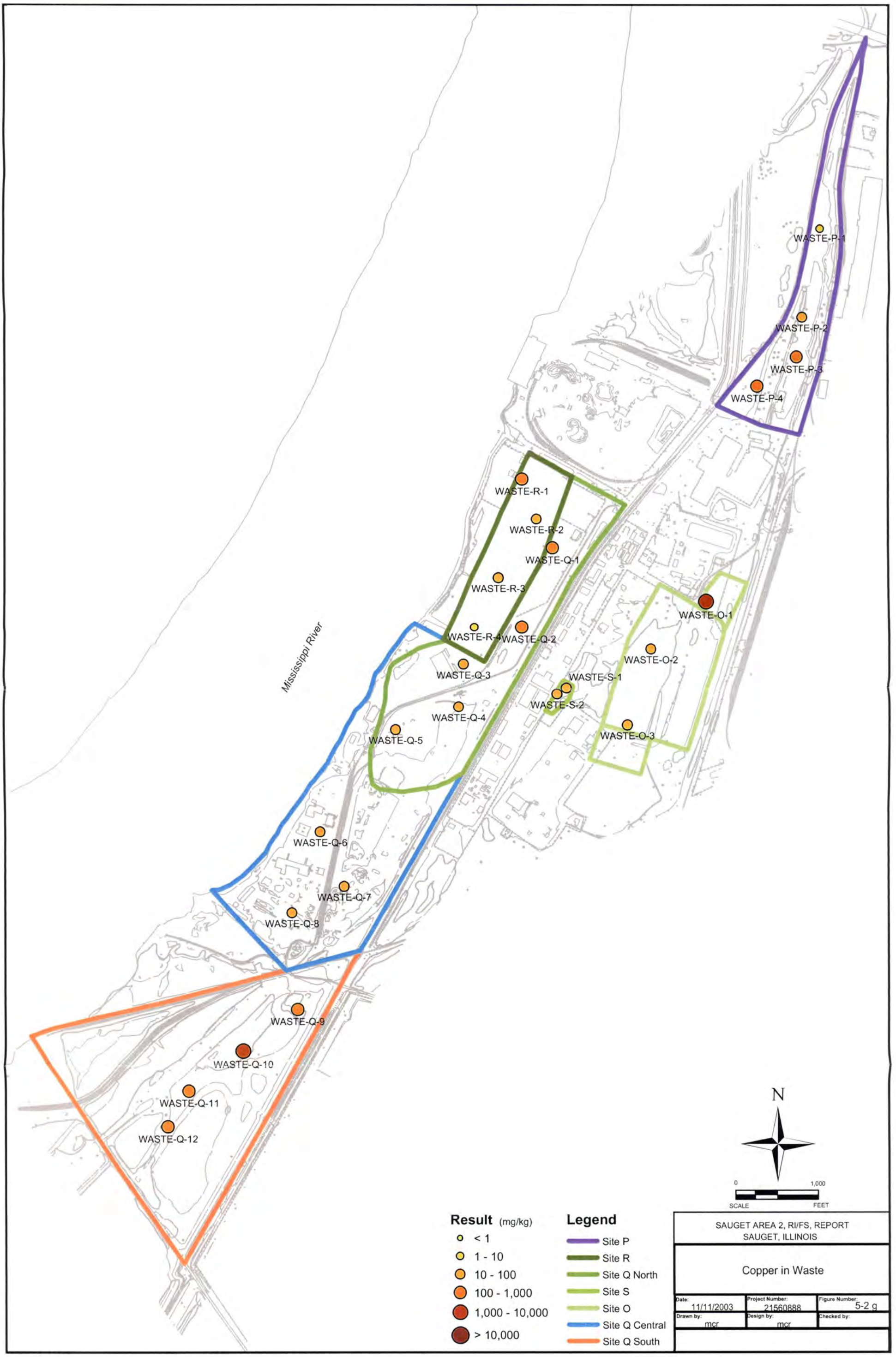
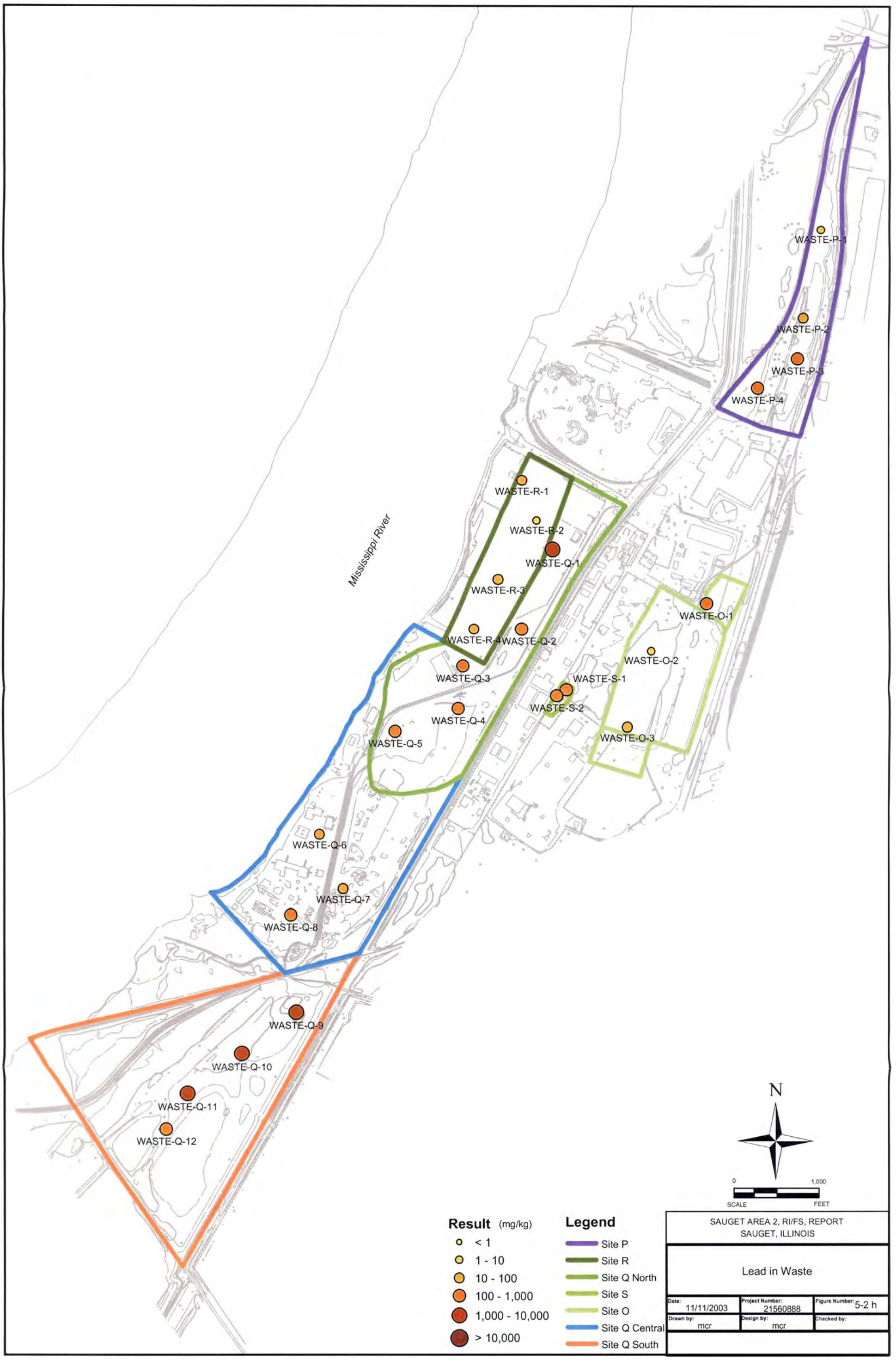


SAUGET AREA 2, RI/FS, REPORT
SAUGET, ILLINOIS

Copper in Waste

Date:	Project Number:	Figure Number:
11/11/2003	21560888	5-2 g
Drawn by: mcr	Design by: mcr	Checked by: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WASTE-P-3
WASTE-P-4
WASTE-R-1
WASTE-R-2
WASTE-Q-1
WASTE-R-3
WASTE-R-4
WASTE-Q-2
WASTE-Q-3
WASTE-Q-4
WASTE-Q-5
WASTE-O-1
WASTE-O-2
WASTE-S-1
WASTE-S-2
WASTE-O-3
WASTE-Q-6
WASTE-Q-7
WASTE-Q-8
WASTE-Q-9
WASTE-Q-10
WASTE-Q-11
WASTE-Q-12
Mississippi River
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SCALE
FEET
Result (mg/kg)
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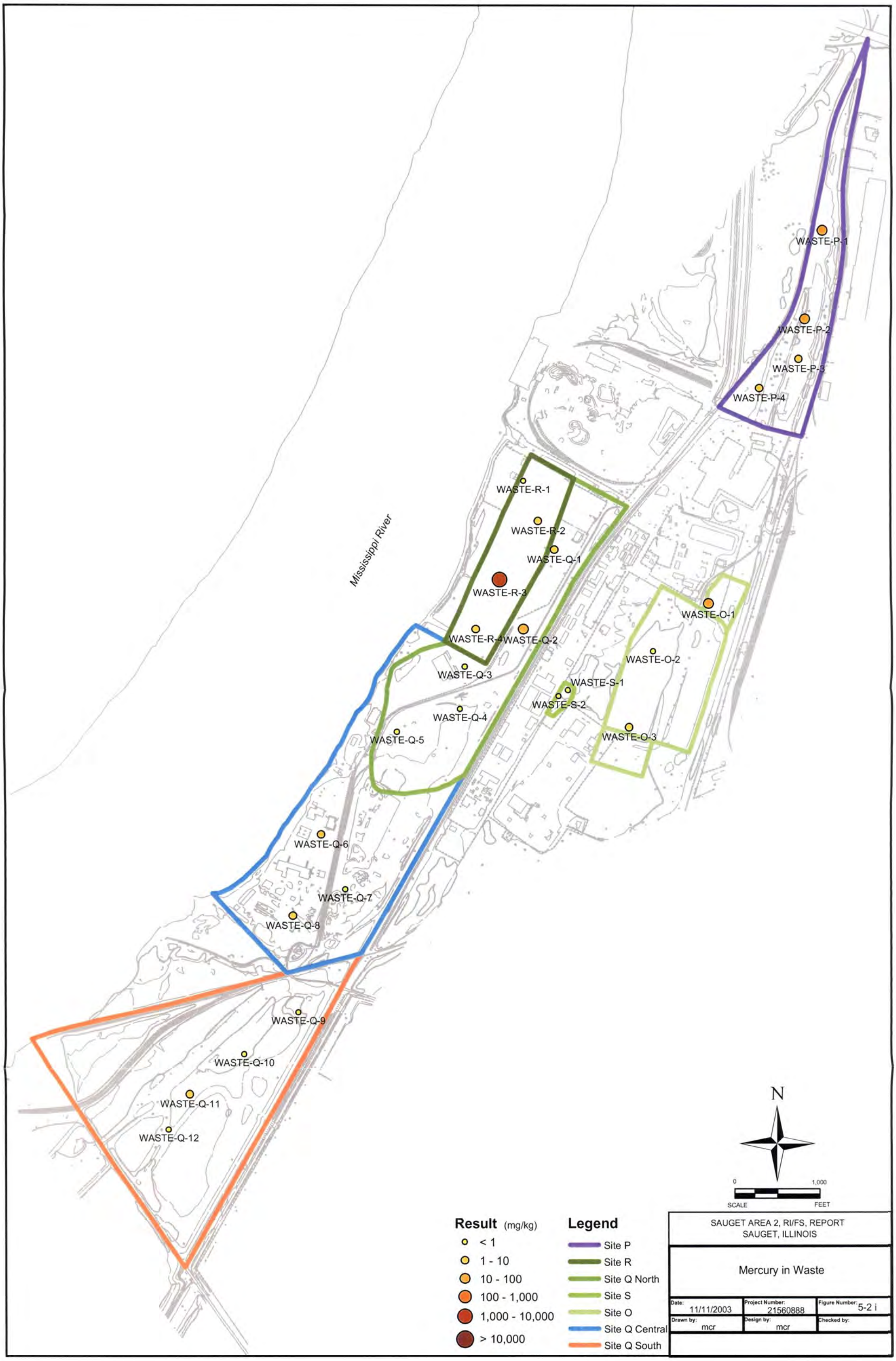
1 - 10
10 - 100
100 - 1,000
1,000 - 10,000
> 10,000
Legend
Site P
Site R
Site Q North
Site S
Site O
Site Q Central
Site Q South
SAUGET AREA 2, RI/FS, REPORT
SAUGET, ILLINOIS
Lead in Waste
Date: 11/11/2003
Project Number: 21560888
Figure Number: 5-2 h
Drawn by: mcr
Design by: mcr
Checked by:


WASTE-P-1
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WASTE-Q-8
WASTE-Q-9
WASTE-Q-10
WASTE-Q-11
WASTE-Q-12
WASTE-O-1
WASTE-O-2
WASTE-O-3
WASTE-S-1
WASTE-S-2
Mississippi River
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SCALE
FEET
Result (mg/kg)
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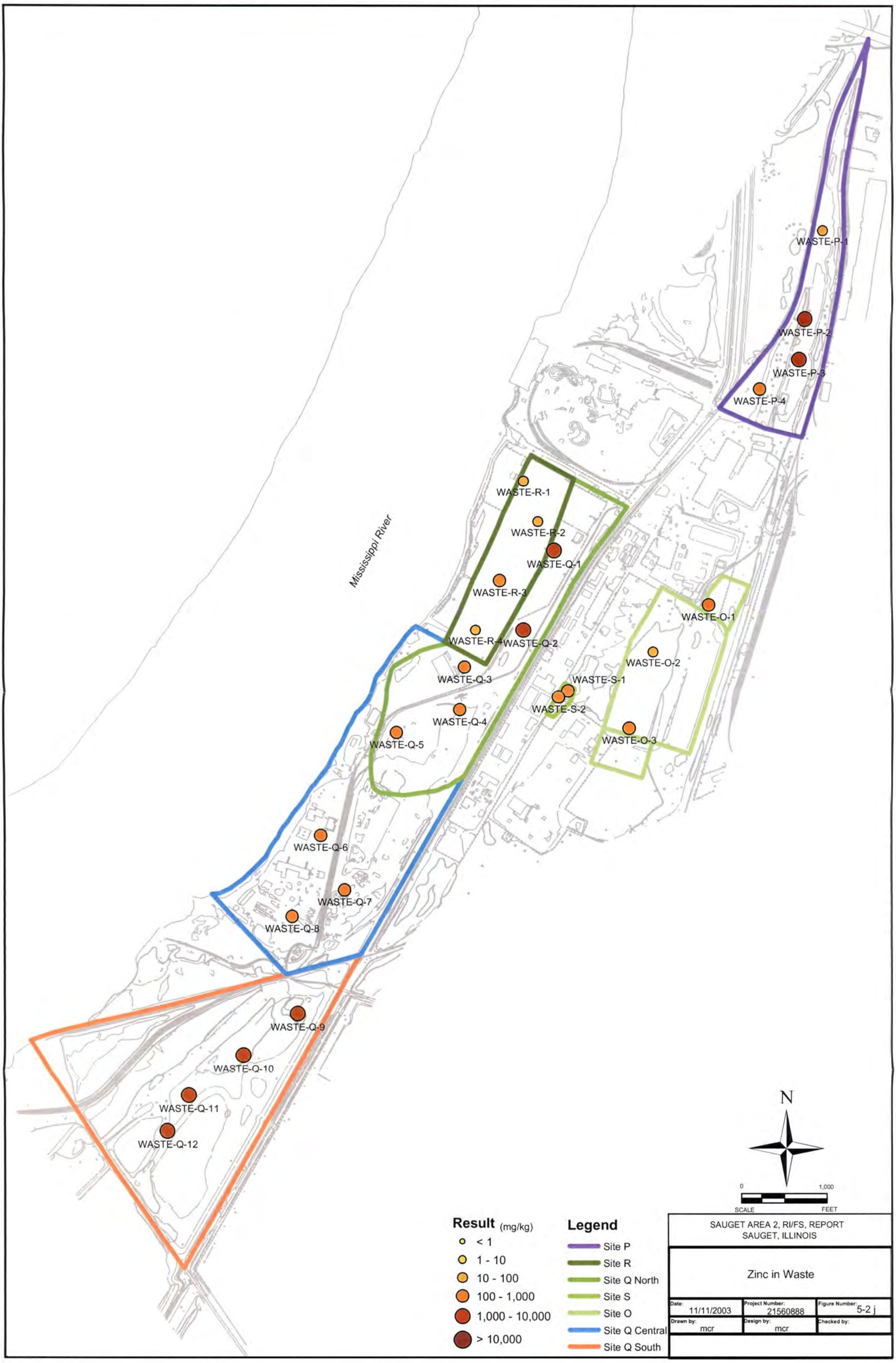
10 - 100
100 - 1,000
1,000 - 10,000
> 10,000
Legend
Site P
Site R
Site Q North
Site S
Site O
Site Q Central
Site Q South
SAUGET AREA 2, RI/FS, REPORT
SAUGET, ILLINOIS
Mercury in Waste
Date: 11/11/2003
Project Number: 21560888
Figure Number: 5-2 i
Drawn by: mcr
Design by: mcr
Checked by: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WASTE-Q-10
WASTE-Q-11
WASTE-Q-12
Mississippi River
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SCALE
FEET
Result (mg/kg)
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10 - 100
100 - 1,000
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> 10,000
Legend
Site P
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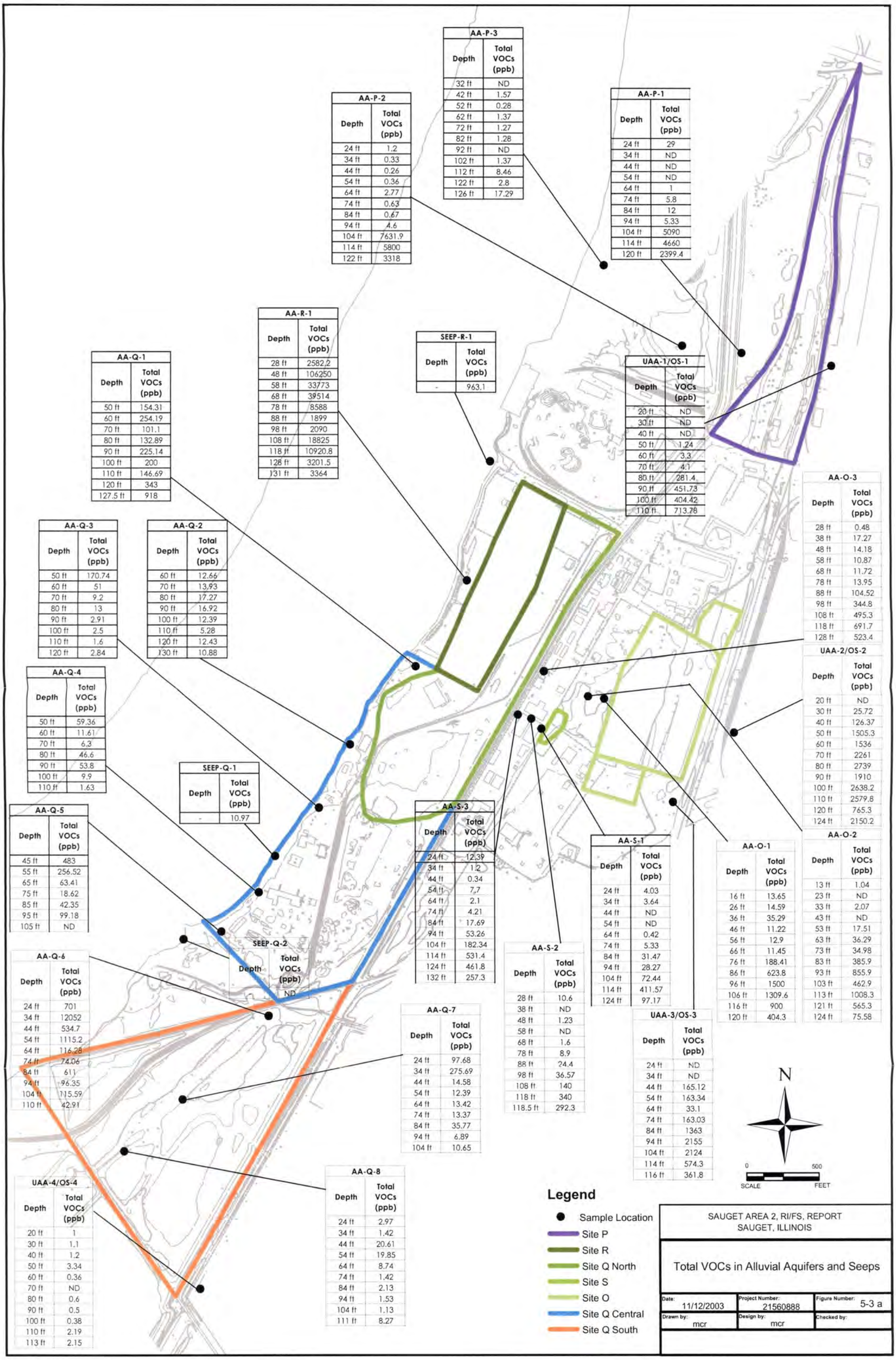
Site Q North
Site S
Site O
Site Q Central
Site Q South
SAUGET AREA 2, RI/FS, REPORT
SAUGET, ILLINOIS
Zinc in Waste
Date: 11/11/2003
Project Number: 21560888
Figure Number: 5-2 j
Drawn by: mcr
Design by: mcr
Checked by:



AA-P-3

Depth	Total VOCs (ppb)
32 ft	ND
42 ft	1.57
52 ft	0.28
62 ft	1.37
72 ft	1.27
82 ft	1.28
92 ft	ND
102 ft	1.37
112 ft	8.46
122 ft	2.8
126 ft	17.29

AA-P-2

Depth	Total VOCs (ppb)
24 ft	1.2
34 ft	0.33
44 ft	0.26
54 ft	0.36
64 ft	2.77
74 ft	0.63
84 ft	0.67
94 ft	4.6
104 ft	7631.9
114 ft	5800
122 ft	3318

AA-P-1

Depth	Total VOCs (ppb)
24 ft	29
34 ft	ND
44 ft	ND
54 ft	ND
64 ft	1
74 ft	5.8
84 ft	12
94 ft	5.33
104 ft	5090
114 ft	4660
120 ft	2399.4

AA-R-1

Depth	Total VOCs (ppb)
28 ft	2582.2
48 ft	106250
58 ft	33773
68 ft	39514
78 ft	8588
88 ft	1899
98 ft	2090
108 ft	18825
118 ft	10920.8
128 ft	3201.5
131 ft	3364

SEEP-R-1

Depth	Total VOCs (ppb)
-	963.1

UAA-1/OS-1

Depth	Total VOCs (ppb)
20 ft	ND
30 ft	ND
40 ft	ND
50 ft	1.24
60 ft	3.3
70 ft	4.1
80 ft	281.4
90 ft	451.73
100 ft	404.42
110 ft	713.78

AA-Q-1

Depth	Total VOCs (ppb)
50 ft	154.31
60 ft	254.19
70 ft	101.1
80 ft	132.89
90 ft	225.14
100 ft	200
110 ft	146.69
120 ft	343
127.5 ft	918

AA-Q-3

Depth	Total VOCs (ppb)
50 ft	170.74
60 ft	51
70 ft	9.2
80 ft	13
90 ft	2.91
100 ft	2.5
110 ft	1.6
120 ft	2.84

AA-Q-2

Depth	Total VOCs (ppb)
60 ft	12.66
70 ft	13.93
80 ft	17.27
90 ft	16.92
100 ft	12.39
110 ft	5.28
120 ft	12.43
130 ft	10.88

AA-O-3

Depth	Total VOCs (ppb)
28 ft	0.48
38 ft	17.27
48 ft	14.18
58 ft	10.87
68 ft	11.72
78 ft	13.95
88 ft	104.52
98 ft	344.8
108 ft	495.3
118 ft	691.7
128 ft	523.4

UAA-2/OS-2

Depth	Total VOCs (ppb)
20 ft	ND
30 ft	25.72
40 ft	126.37
50 ft	1505.3
60 ft	1536
70 ft	2261
80 ft	2739
90 ft	1910
100 ft	2638.2
110 ft	2579.8
120 ft	765.3
124 ft	2150.2

AA-Q-4

Depth	Total VOCs (ppb)
50 ft	59.36
60 ft	11.61
70 ft	6.3
80 ft	46.6
90 ft	53.8
100 ft	9.9
110 ft	1.63

SEEP-Q-1

Depth	Total VOCs (ppb)
-	10.97

AA-Q-5

Depth	Total VOCs (ppb)
45 ft	483
55 ft	256.52
65 ft	63.41
75 ft	18.62
85 ft	42.35
95 ft	99.18
105 ft	ND

AA-S-3

Depth	Total VOCs (ppb)
24 ft	12.39
34 ft	1.2
44 ft	0.34
54 ft	7.7
64 ft	2.1
74 ft	4.21
84 ft	17.69
94 ft	53.26
104 ft	182.34
114 ft	531.4
124 ft	461.8
132 ft	257.3

AA-S-1

Depth	Total VOCs (ppb)
24 ft	4.03
34 ft	3.64
44 ft	ND
54 ft	ND
64 ft	0.42
74 ft	5.33
84 ft	31.47
94 ft	28.27
104 ft	72.44
114 ft	411.57
124 ft	97.17

AA-O-1

Depth	Total VOCs (ppb)
16 ft	13.65
26 ft	14.59
36 ft	35.29
46 ft	11.22
56 ft	12.9
66 ft	11.45
76 ft	188.41
86 ft	623.8
96 ft	1500
106 ft	1309.6
116 ft	900
120 ft	404.3

AA-O-2

Depth	Total VOCs (ppb)
13 ft	1.04
23 ft	ND
33 ft	2.07
43 ft	ND
53 ft	17.51
63 ft	36.29
73 ft	34.98
83 ft	385.9
93 ft	855.9
103 ft	462.9
113 ft	1008.3
121 ft	565.3
124 ft	75.58

AA-Q-6

Depth	Total VOCs (ppb)
24 ft	701
34 ft	12052
44 ft	534.7
54 ft	1115.2
64 ft	116.28
74 ft	74.06
84 ft	611
94 ft	96.35
104 ft	115.59
110 ft	42.91

SEEP-Q-2

Depth	Total VOCs (ppb)
	ND

AA-S-2

Depth	Total VOCs (ppb)
28 ft	10.6
38 ft	ND
48 ft	1.23
58 ft	ND
68 ft	1.6
78 ft	8.9
88 ft	24.4
98 ft	36.57
108 ft	140
118 ft	340
118.5 ft	292.3

AA-Q-7

Depth	Total VOCs (ppb)
24 ft	97.68
34 ft	275.69
44 ft	14.58
54 ft	12.39
64 ft	13.42
74 ft	13.37
84 ft	35.77
94 ft	6.89
104 ft	10.65

UAA-3/OS-3

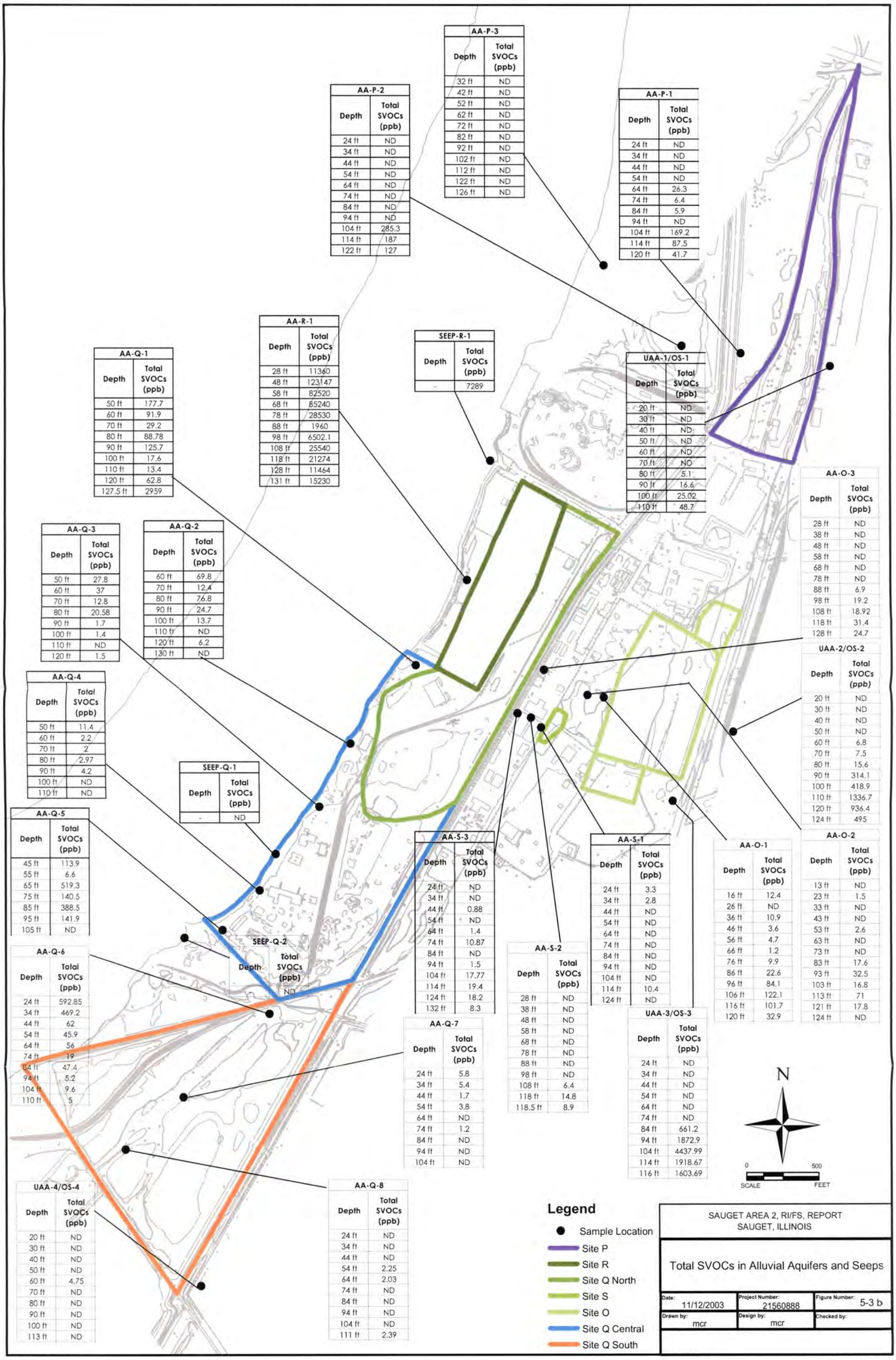
Depth	Total VOCs (ppb)
24 ft	ND
34 ft	ND
44 ft	165.12
54 ft	163.34
64 ft	33.1
74 ft	163.03
84 ft	1363
94 ft	2155
104 ft	2124
114 ft	574.3
116 ft	361.8

UAA-4/OS-4

Depth	Total VOCs (ppb)
20 ft	1
30 ft	1.1
40 ft	1.2
50 ft	3.34
60 ft	0.36
70 ft	ND
80 ft	0.6
90 ft	0.5
100 ft	0.38
110 ft	2.19
113 ft	2.15

AA-Q-8

Depth	Total VOCs (ppb)
24 ft	2.97
34 ft	1.42
44 ft	20.61
54 ft	19.85
64 ft	8.74
74 ft	1.42
84 ft	2.13
94 ft	1.53
104 ft	1.13
111 ft	8.27



AA-P-3	
Depth	Total SVOCs (ppb)
32 ft	ND
42 ft	ND
52 ft	ND
62 ft	ND
72 ft	ND
82 ft	ND
92 ft	ND
102 ft	ND
112 ft	ND
122 ft	ND
126 ft	ND

AA-P-2	
Depth	Total SVOCs (ppb)
24 ft	ND
34 ft	ND
44 ft	ND
54 ft	ND
64 ft	ND
74 ft	ND
84 ft	ND
94 ft	ND
104 ft	285.3
114 ft	187
122 ft	127

AA-P-1	
Depth	Total SVOCs (ppb)
24 ft	ND
34 ft	ND
44 ft	ND
54 ft	ND
64 ft	26.3
74 ft	6.4
84 ft	5.9
94 ft	ND
104 ft	169.2
114 ft	87.5
120 ft	41.7

AA-R-1	
Depth	Total SVOCs (ppb)
28 ft	11360
48 ft	123147
58 ft	82520
68 ft	85240
78 ft	28530
88 ft	1960
98 ft	6502.1
108 ft	25540
118 ft	21274
128 ft	11464
131 ft	15230

SEEP-R-1	
Depth	Total SVOCs (ppb)
-	7289

UAA-1/OS-1	
Depth	Total SVOCs (ppb)
20 ft	ND
30 ft	ND
40 ft	ND
50 ft	ND
60 ft	ND
70 ft	ND
80 ft	5.1
90 ft	16.6
100 ft	25.02
110 ft	48.7

AA-Q-1	
Depth	Total SVOCs (ppb)
50 ft	177.7
60 ft	91.9
70 ft	29.2
80 ft	88.78
90 ft	125.7
100 ft	17.6
110 ft	13.4
120 ft	62.8
127.5 ft	2959

AA-Q-3	
Depth	Total SVOCs (ppb)
50 ft	27.8
60 ft	37
70 ft	12.8
80 ft	20.58
90 ft	1.7
100 ft	1.4
110 ft	ND
120 ft	1.5

AA-Q-2	
Depth	Total SVOCs (ppb)
60 ft	69.8
70 ft	12.4
80 ft	76.8
90 ft	24.7
100 ft	13.7
110 ft	ND
120 ft	6.2
130 ft	ND

AA-O-3	
Depth	Total SVOCs (ppb)
28 ft	ND
38 ft	ND
48 ft	ND
58 ft	ND
68 ft	ND
78 ft	ND
88 ft	6.9
98 ft	19.2
108 ft	18.92
118 ft	31.4
128 ft	24.7

UAA-2/OS-2	
Depth	Total SVOCs (ppb)
20 ft	ND
30 ft	ND
40 ft	ND
50 ft	ND
60 ft	6.8
70 ft	7.5
80 ft	15.6
90 ft	314.1
100 ft	418.9
110 ft	1336.7
120 ft	936.4
124 ft	495

AA-Q-4	
Depth	Total SVOCs (ppb)
50 ft	11.4
60 ft	2.2
70 ft	2
80 ft	2.97
90 ft	4.2
100 ft	ND
110 ft	ND

SEEP-Q-1	
Depth	Total SVOCs (ppb)
-	ND

AA-Q-5	
Depth	Total SVOCs (ppb)
45 ft	113.9
55 ft	6.6
65 ft	519.3
75 ft	140.5
85 ft	388.5
95 ft	141.9
105 ft	ND

AA-S-3	
Depth	Total SVOCs (ppb)
24 ft	ND
34 ft	ND
44 ft	0.88
54 ft	ND
64 ft	1.4
74 ft	10.87
84 ft	ND
94 ft	1.5
104 ft	17.77
114 ft	19.4
124 ft	18.2
132 ft	8.3

AA-S-1	
Depth	Total SVOCs (ppb)
24 ft	3.3
34 ft	2.8
44 ft	ND
54 ft	ND
64 ft	ND
74 ft	ND
84 ft	ND
94 ft	ND
104 ft	ND
114 ft	10.4
124 ft	ND

AA-O-1	
Depth	Total SVOCs (ppb)
16 ft	12.4
26 ft	ND
36 ft	10.9
46 ft	3.6
56 ft	4.7
66 ft	1.2
76 ft	9.9
86 ft	22.6
96 ft	84.1
106 ft	122.1
116 ft	101.7
120 ft	32.9

AA-O-2	
Depth	Total SVOCs (ppb)
13 ft	ND
23 ft	1.5
33 ft	ND
43 ft	ND
53 ft	2.6
63 ft	ND
73 ft	ND
83 ft	17.6
93 ft	32.5
103 ft	16.8
113 ft	71
121 ft	17.8
124 ft	ND

AA-Q-6	
Depth	Total SVOCs (ppb)
24 ft	592.85
34 ft	469.2
44 ft	62
54 ft	45.9
64 ft	56
74 ft	19
84 ft	47.4
94 ft	5.2
104 ft	9.6
110 ft	5

SEEP-Q-2	
Depth	Total SVOCs (ppb)
	ND

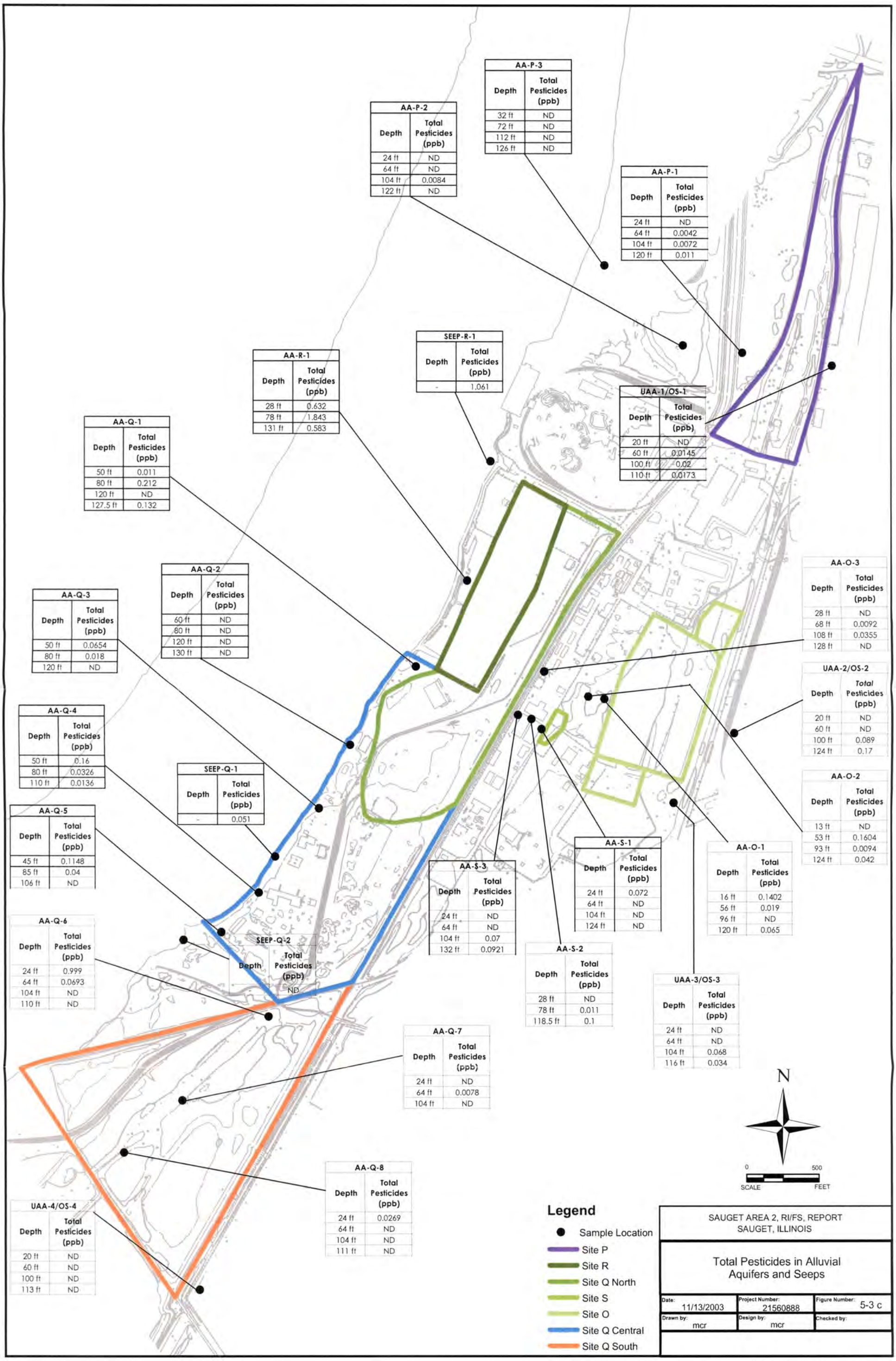
AA-S-2	
Depth	Total SVOCs (ppb)
28 ft	ND
38 ft	ND
48 ft	ND
58 ft	ND
68 ft	ND
78 ft	ND
88 ft	ND
98 ft	ND
108 ft	6.4
118 ft	14.8
118.5 ft	8.9

AA-Q-7	
Depth	Total SVOCs (ppb)
24 ft	5.8
34 ft	5.4
44 ft	1.7
54 ft	3.8
64 ft	ND
74 ft	1.2
84 ft	ND
94 ft	ND
104 ft	ND

UAA-3/OS-3	
Depth	Total SVOCs (ppb)
24 ft	ND
34 ft	ND
44 ft	ND
54 ft	ND
64 ft	ND
74 ft	ND
84 ft	661.2
94 ft	1872.9
104 ft	4437.99
114 ft	1918.67
116 ft	1603.69

UAA-4/OS-4	
Depth	Total SVOCs (ppb)
20 ft	ND
30 ft	ND
40 ft	ND
50 ft	ND
60 ft	4.75
70 ft	ND
80 ft	ND
90 ft	ND
100 ft	ND
113 ft	ND

AA-Q-8	
Depth	Total SVOCs (ppb)
24 ft	ND
34 ft	ND
44 ft	ND
54 ft	2.25
64 ft	2.03
74 ft	ND
84 ft	ND
94 ft	ND
104 ft	ND
111 ft	2.39



AA-P-3	
Depth	Total Pesticides (ppb)
32 ft	ND
72 ft	ND
112 ft	ND
126 ft	ND

AA-P-2	
Depth	Total Pesticides (ppb)
24 ft	ND
64 ft	ND
104 ft	0.0084
122 ft	ND

AA-P-1	
Depth	Total Pesticides (ppb)
24 ft	ND
64 ft	0.0042
104 ft	0.0072
120 ft	0.011

SEEP-R-1	
Depth	Total Pesticides (ppb)
-	1.061

AA-R-1	
Depth	Total Pesticides (ppb)
28 ft	0.632
78 ft	1.843
131 ft	0.583

UAA-1/OS-1	
Depth	Total Pesticides (ppb)
20 ft	ND
60 ft	0.0145
100 ft	0.02
110 ft	0.0173

AA-Q-1	
Depth	Total Pesticides (ppb)
50 ft	0.011
80 ft	0.212
120 ft	ND
127.5 ft	0.132

AA-Q-2	
Depth	Total Pesticides (ppb)
60 ft	ND
80 ft	ND
120 ft	ND
130 ft	ND

AA-Q-3	
Depth	Total Pesticides (ppb)
50 ft	0.0654
80 ft	0.018
120 ft	ND

AA-O-3	
Depth	Total Pesticides (ppb)
28 ft	ND
68 ft	0.0092
108 ft	0.0355
128 ft	ND

UAA-2/OS-2	
Depth	Total Pesticides (ppb)
20 ft	ND
60 ft	ND
100 ft	0.089
124 ft	0.17

AA-Q-4	
Depth	Total Pesticides (ppb)
50 ft	0.16
80 ft	0.0326
110 ft	0.0136

SEEP-Q-1	
Depth	Total Pesticides (ppb)
-	0.051

AA-O-2	
Depth	Total Pesticides (ppb)
13 ft	ND
53 ft	0.1604
93 ft	0.0094
124 ft	0.042

AA-Q-5	
Depth	Total Pesticides (ppb)
45 ft	0.1148
85 ft	0.04
106 ft	ND

AA-S-1	
Depth	Total Pesticides (ppb)
24 ft	0.072
64 ft	ND
104 ft	ND
124 ft	ND

AA-O-1	
Depth	Total Pesticides (ppb)
16 ft	0.1402
56 ft	0.019
96 ft	ND
120 ft	0.065

AA-S-3	
Depth	Total Pesticides (ppb)
24 ft	ND
64 ft	ND
104 ft	0.07
132 ft	0.0921

AA-Q-6	
Depth	Total Pesticides (ppb)
24 ft	0.999
64 ft	0.0693
104 ft	ND
110 ft	ND

SEEP-Q-2	
Depth	Total Pesticides (ppb)
-	ND

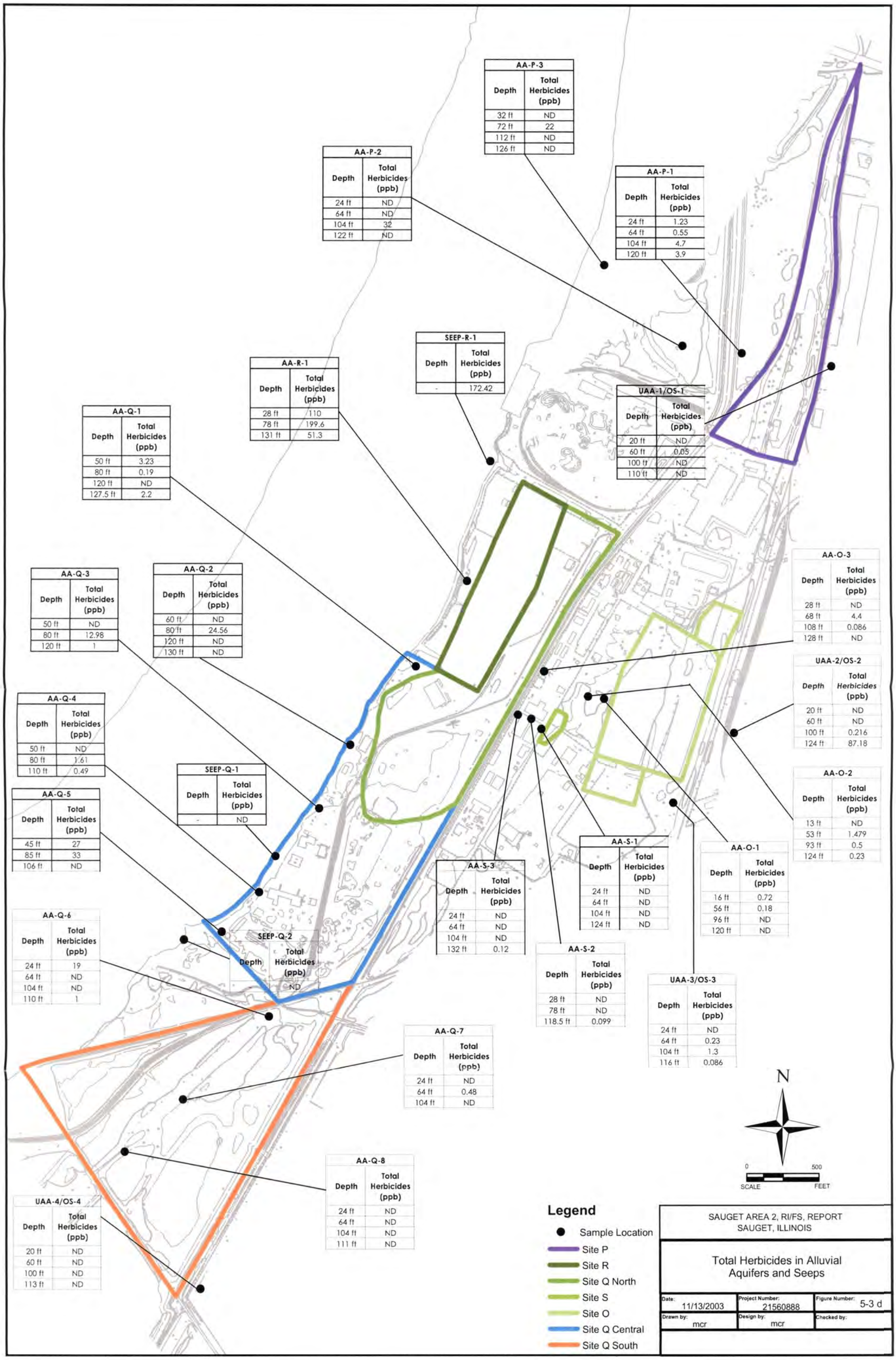
AA-S-2	
Depth	Total Pesticides (ppb)
28 ft	ND
78 ft	0.011
118.5 ft	0.1

UAA-3/OS-3	
Depth	Total Pesticides (ppb)
24 ft	ND
64 ft	ND
104 ft	0.068
116 ft	0.034

AA-Q-7	
Depth	Total Pesticides (ppb)
24 ft	ND
64 ft	0.0078
104 ft	ND

AA-Q-8	
Depth	Total Pesticides (ppb)
24 ft	0.0269
64 ft	ND
104 ft	ND
111 ft	ND

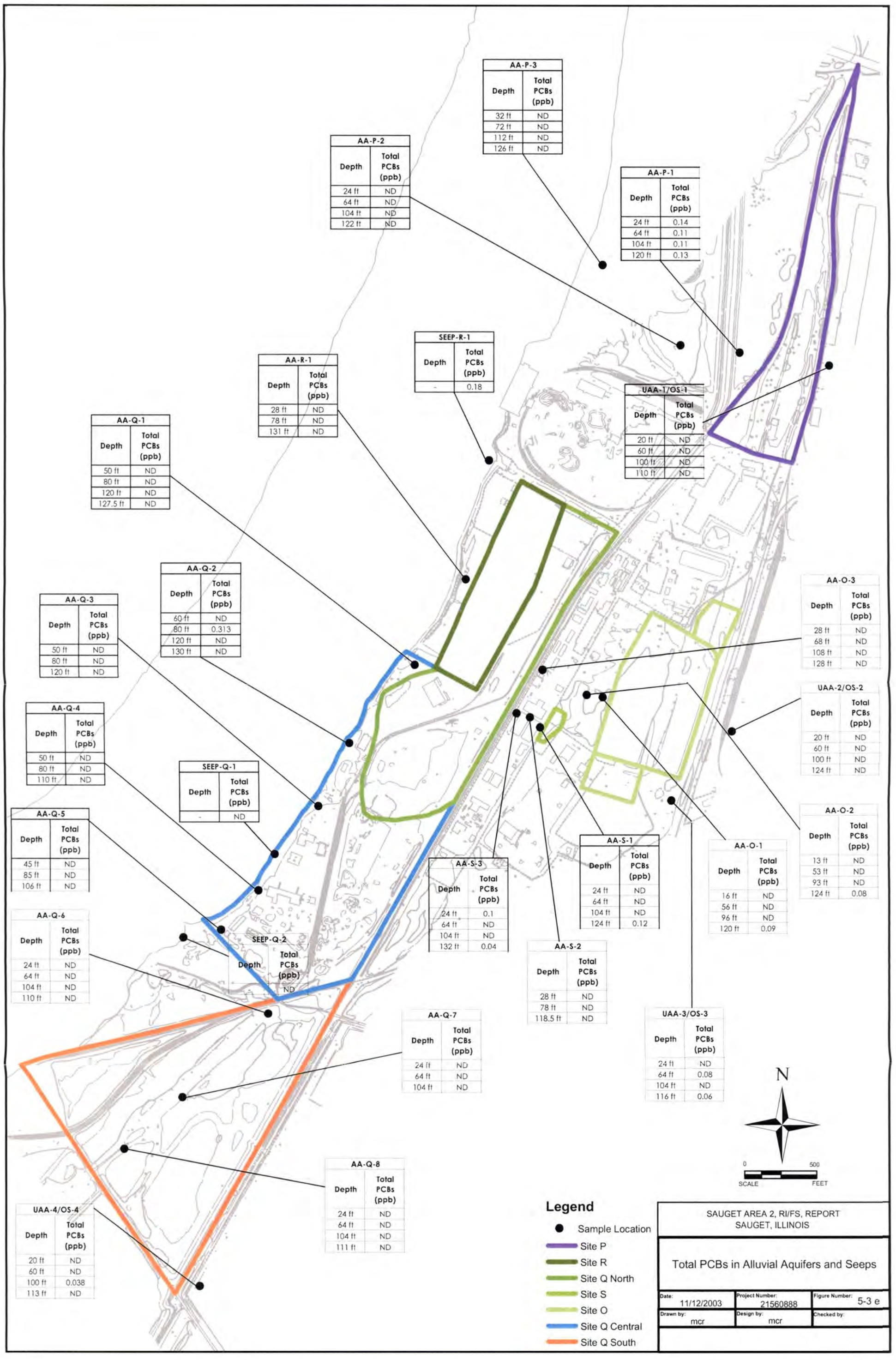
UAA-4/OS-4	
Depth	Total Pesticides (ppb)
20 ft	ND
60 ft	ND
100 ft	ND
113 ft	ND



SAUGET AREA 2, RI/FS, REPORT
SAUGET, ILLINOIS

Total Herbicides in Alluvial Aquifers and Seeps

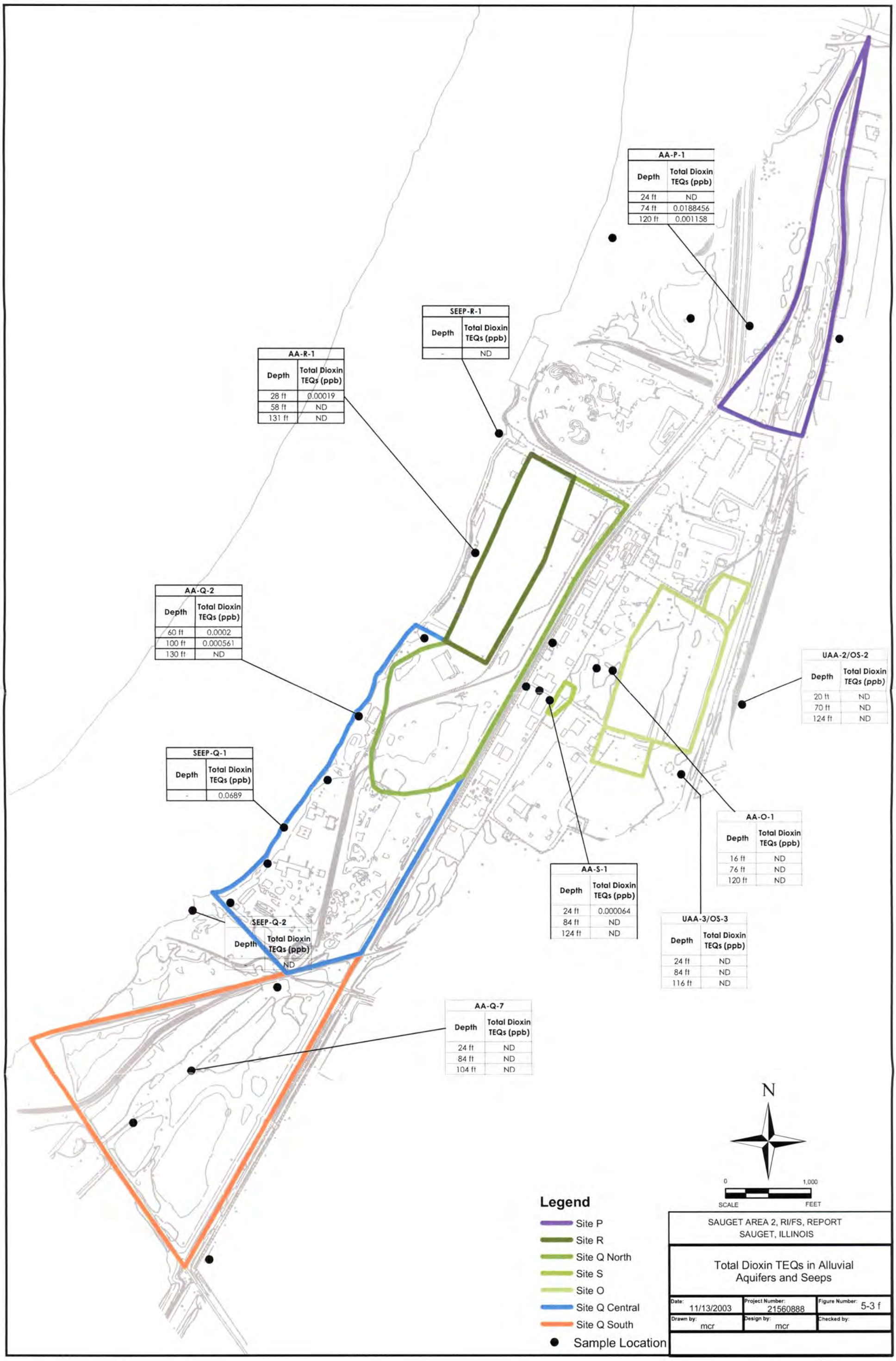
Date:	Project Number:	Figure Number:
11/13/2003	21560888	5-3 d
Drawn by: mcr	Design by: mcr	Checked by:



SAUGET AREA 2, RI/FS, REPORT
SAUGET, ILLINOIS

Total PCBs in Alluvial Aquifers and Seeps

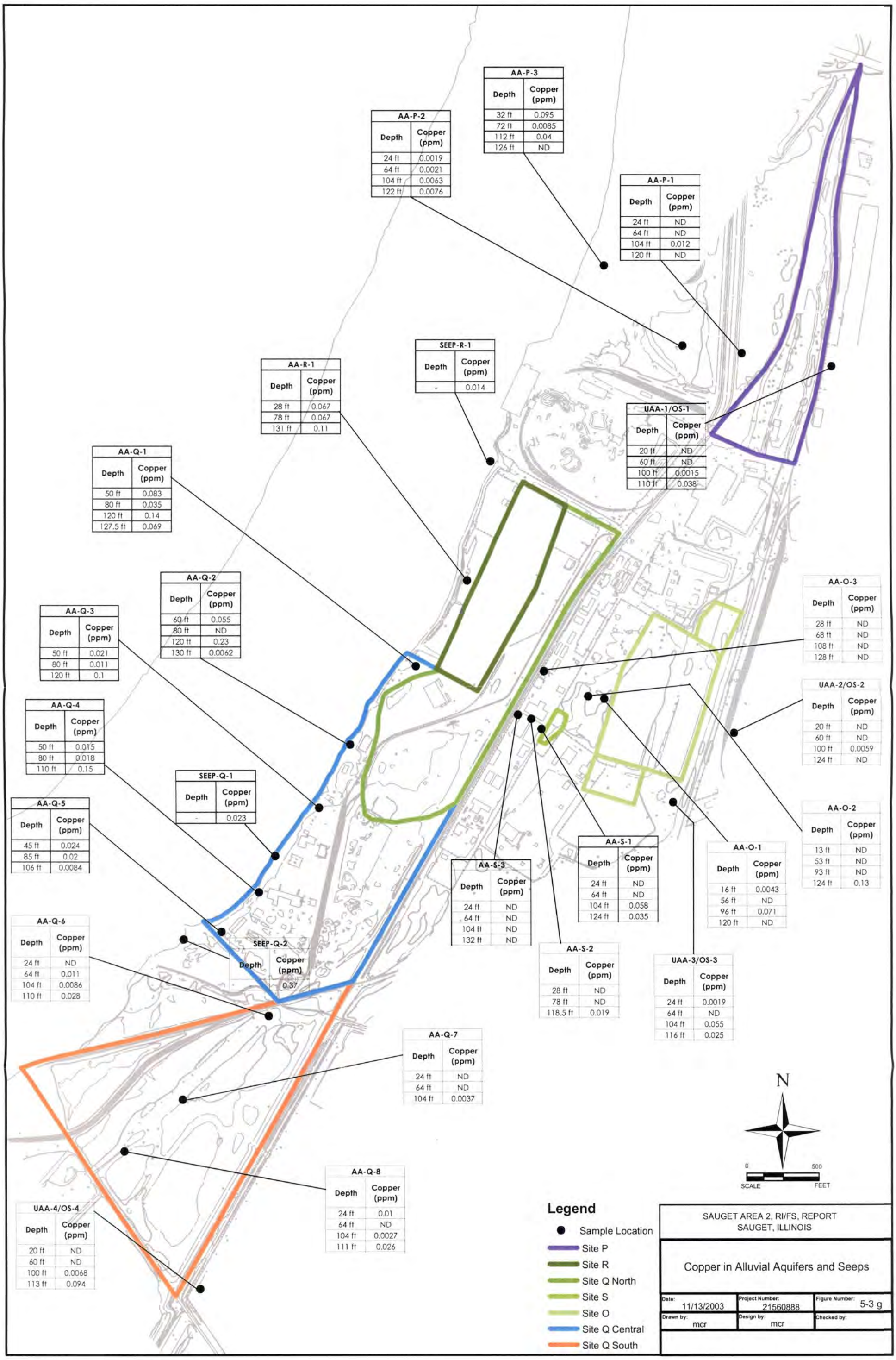
Date:	Project Number:	Figure Number:
11/12/2003	21560888	5-3 e
Drawn by: mcr	Design by: mcr	Checked by:



SAUGET AREA 2, RI/FS, REPORT
SAUGET, ILLINOIS

Total Dioxin TEQs in Alluvial Aquifers and Seeps

Date:	Project Number:	Figure Number:
11/13/2003	21560888	5-3 f
Drawn by: mcr	Design by: mcr	Checked by:



AA-P-3	
Depth	Copper (ppm)
32 ft	0.095
72 ft	0.0085
112 ft	0.04
126 ft	ND

AA-P-2	
Depth	Copper (ppm)
24 ft	0.0019
64 ft	0.0021
104 ft	0.0063
122 ft	0.0076

AA-P-1	
Depth	Copper (ppm)
24 ft	ND
64 ft	ND
104 ft	0.012
120 ft	ND

SEEP-R-1	
Depth	Copper (ppm)
-	0.014

AA-R-1	
Depth	Copper (ppm)
28 ft	0.067
78 ft	0.067
131 ft	0.11

UAA-1/OS-1	
Depth	Copper (ppm)
20 ft	ND
60 ft	ND
100 ft	0.0015
110 ft	0.038

AA-Q-1	
Depth	Copper (ppm)
50 ft	0.083
80 ft	0.035
120 ft	0.14
127.5 ft	0.069

AA-Q-2	
Depth	Copper (ppm)
60 ft	0.055
80 ft	ND
120 ft	0.23
130 ft	0.0062

AA-Q-3	
Depth	Copper (ppm)
50 ft	0.021
80 ft	0.011
120 ft	0.1

AA-O-3	
Depth	Copper (ppm)
28 ft	ND
68 ft	ND
108 ft	ND
128 ft	ND

UAA-2/OS-2	
Depth	Copper (ppm)
20 ft	ND
60 ft	ND
100 ft	0.0059
124 ft	ND

AA-Q-4	
Depth	Copper (ppm)
50 ft	0.015
80 ft	0.018
110 ft	0.15

SEEP-Q-1	
Depth	Copper (ppm)
-	0.023

AA-Q-5	
Depth	Copper (ppm)
45 ft	0.024
85 ft	0.02
106 ft	0.0084

AA-O-2	
Depth	Copper (ppm)
13 ft	ND
53 ft	ND
93 ft	ND
124 ft	0.13

AA-S-1	
Depth	Copper (ppm)
24 ft	ND
64 ft	ND
104 ft	0.058
124 ft	0.035

AA-O-1	
Depth	Copper (ppm)
16 ft	0.0043
56 ft	ND
96 ft	0.071
120 ft	ND

AA-S-3	
Depth	Copper (ppm)
24 ft	ND
64 ft	ND
104 ft	ND
132 ft	ND

AA-Q-6	
Depth	Copper (ppm)
24 ft	ND
64 ft	0.011
104 ft	0.0086
110 ft	0.028

SEEP-Q-2	
Depth	Copper (ppm)
	0.37

AA-S-2	
Depth	Copper (ppm)
28 ft	ND
78 ft	ND
118.5 ft	0.019

UAA-3/OS-3	
Depth	Copper (ppm)
24 ft	0.0019
64 ft	ND
104 ft	0.055
116 ft	0.025

AA-Q-7	
Depth	Copper (ppm)
24 ft	ND
64 ft	ND
104 ft	0.0037

AA-Q-8	
Depth	Copper (ppm)
24 ft	0.01
64 ft	ND
104 ft	0.0027
111 ft	0.026

UAA-4/OS-4	
Depth	Copper (ppm)
20 ft	ND
60 ft	ND
100 ft	0.0068
113 ft	0.094

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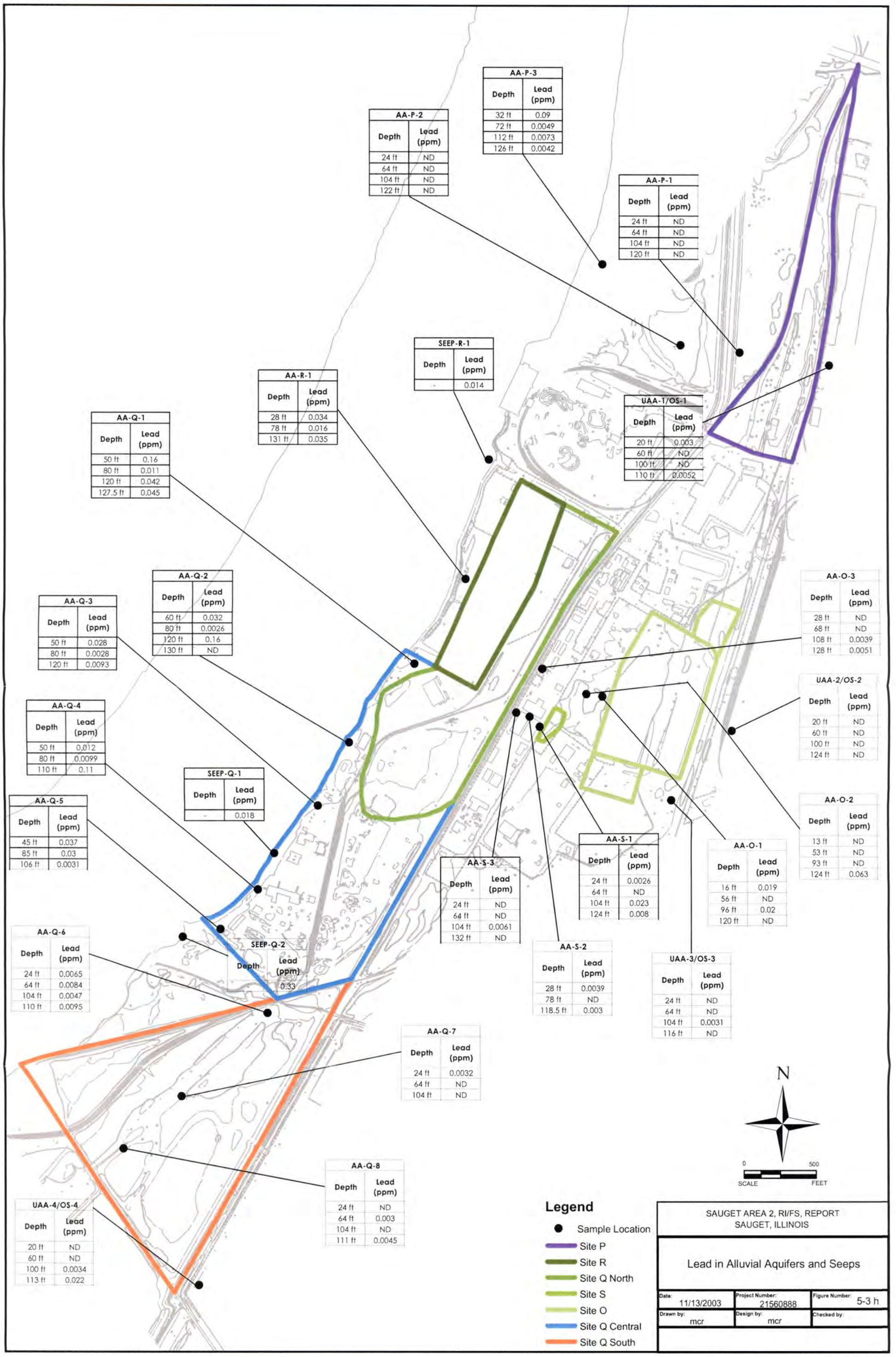
Copper in Alluvial Aquifers and Seeps

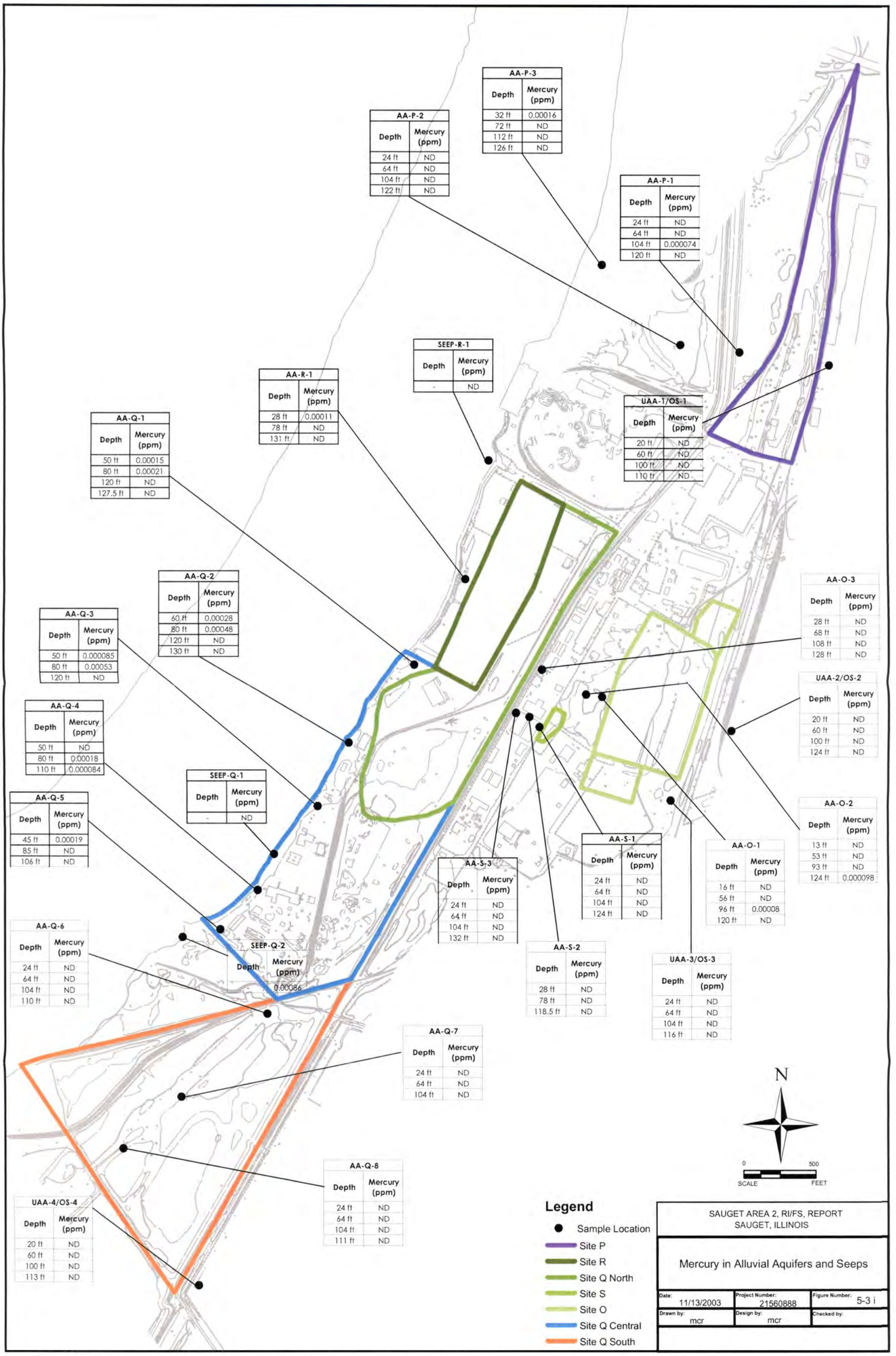
Date:	Project Number:	Figure Number:
11/13/2003	21560888	5-3 g
Drawn by: mcr	Design by: mcr	Checked by:



SAUGET AREA 2, RI/FS, REPORT
SAUGET, ILLINOIS

Lead in Alluvial Aquifers and Seeps

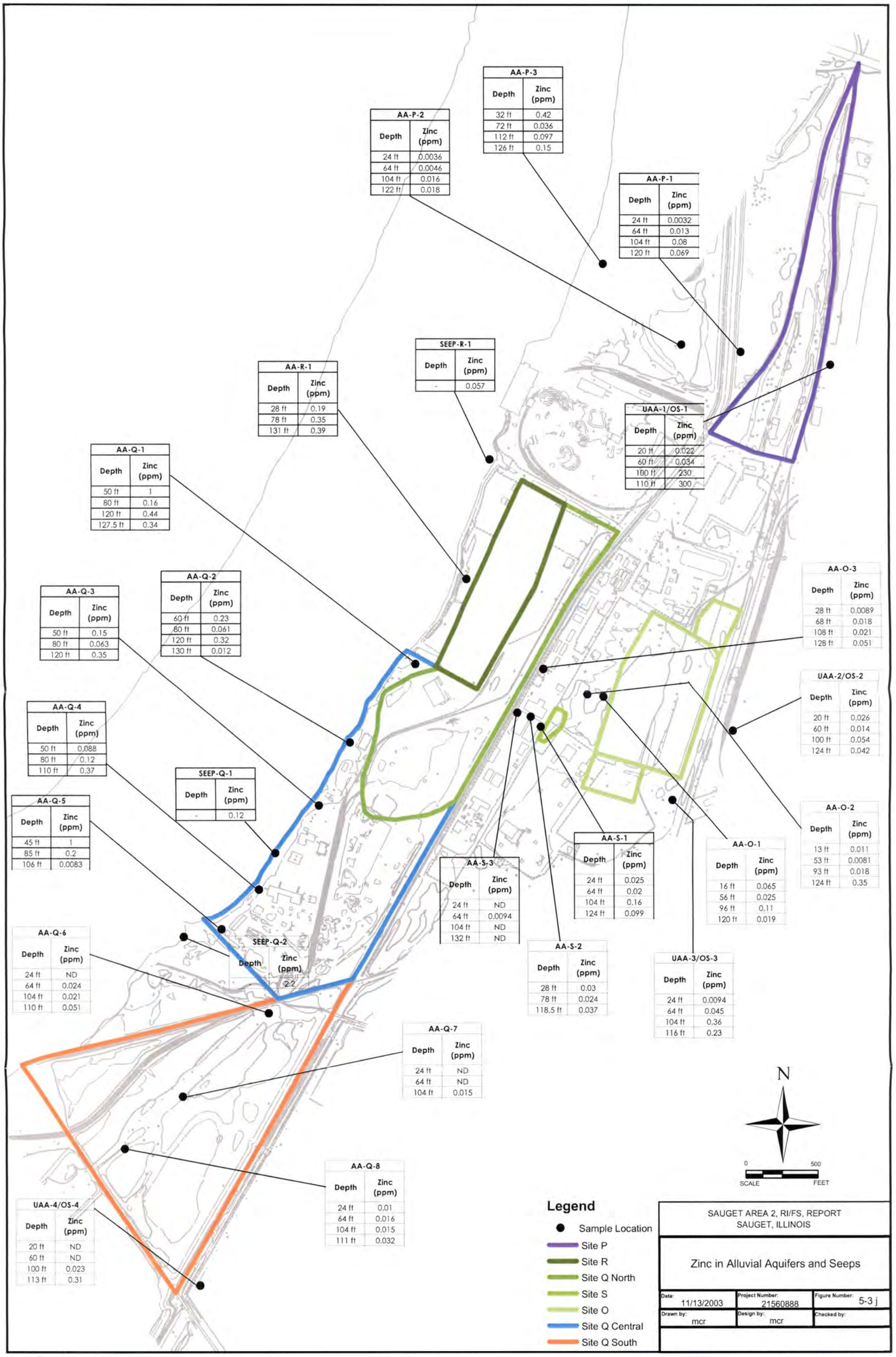
Date:	Project Number:	Figure Number:
11/13/2003	21560888	5-3 h
Drawn by: mcr	Design by: mcr	Checked by:



SAUGET AREA 2, RI/FS, REPORT
SAUGET, ILLINOIS

Mercury in Alluvial Aquifers and Seeps

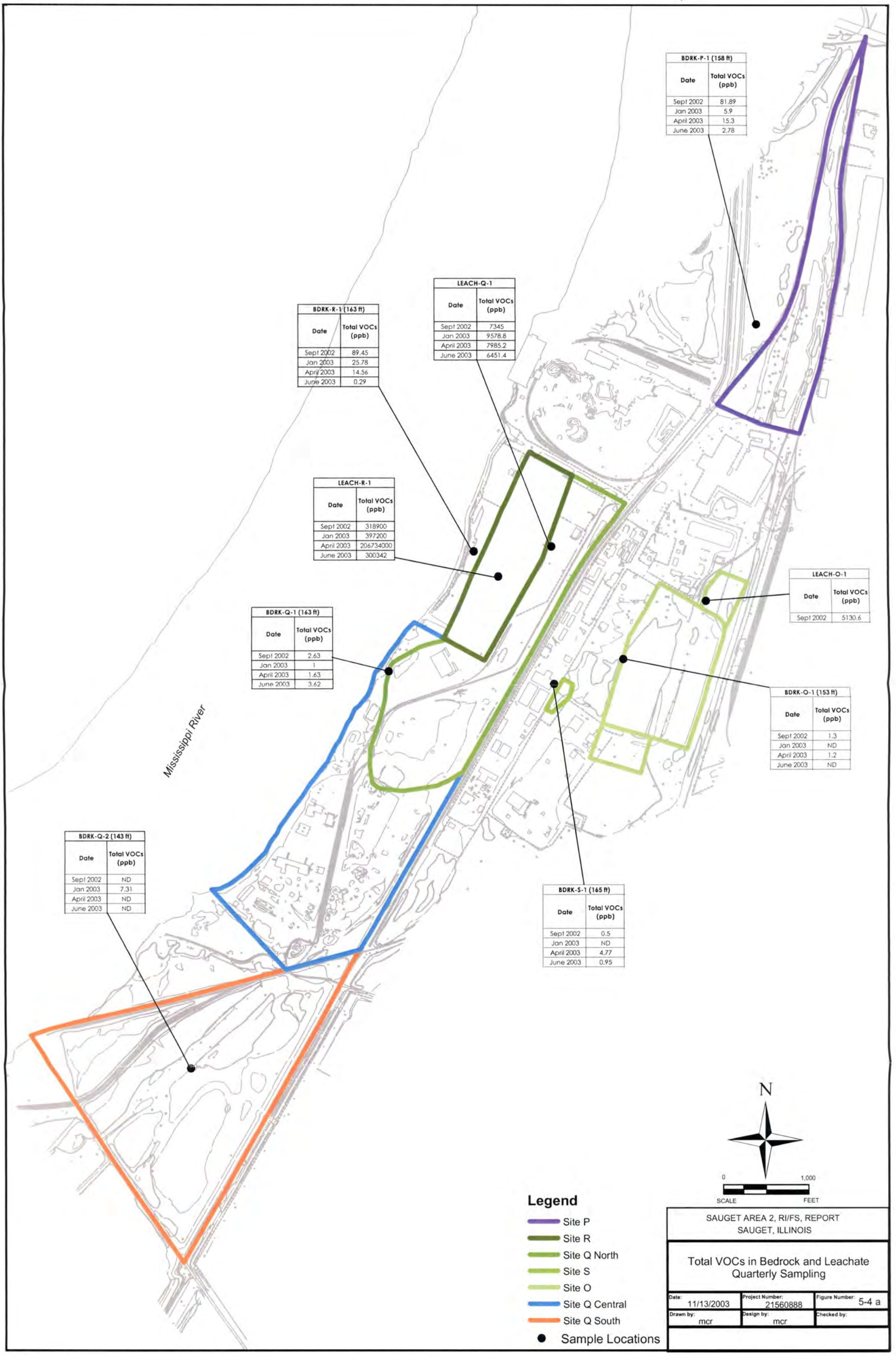
Date:	Project Number:	Figure Number:
11/13/2003	21560888	5-3 i
Drawn by: mcr	Design by: mcr	Checked by:



SAUGET AREA 2, RI/FS, REPORT
SAUGET, ILLINOIS

Zinc in Alluvial Aquifers and Seeps

Date:	Project Number:	Figure Number:
11/13/2003	21560888	5-3 j
Drawn by: mcr	Design by: mcr	Checked by:



BDRK-P-1 (158 ft)	
Date	Total VOCs (ppb)
Sept 2002	81.89
Jan 2003	5.9
April 2003	15.3
June 2003	2.78

LEACH-Q-1	
Date	Total VOCs (ppb)
Sept 2002	7345
Jan 2003	9578.8
April 2003	7985.2
June 2003	6451.4

BDRK-R-1 (163 ft)	
Date	Total VOCs (ppb)
Sept 2002	89.45
Jan 2003	25.78
April 2003	14.56
June 2003	0.29

LEACH-R-1	
Date	Total VOCs (ppb)
Sept 2002	318900
Jan 2003	397200
April 2003	206734000
June 2003	300342

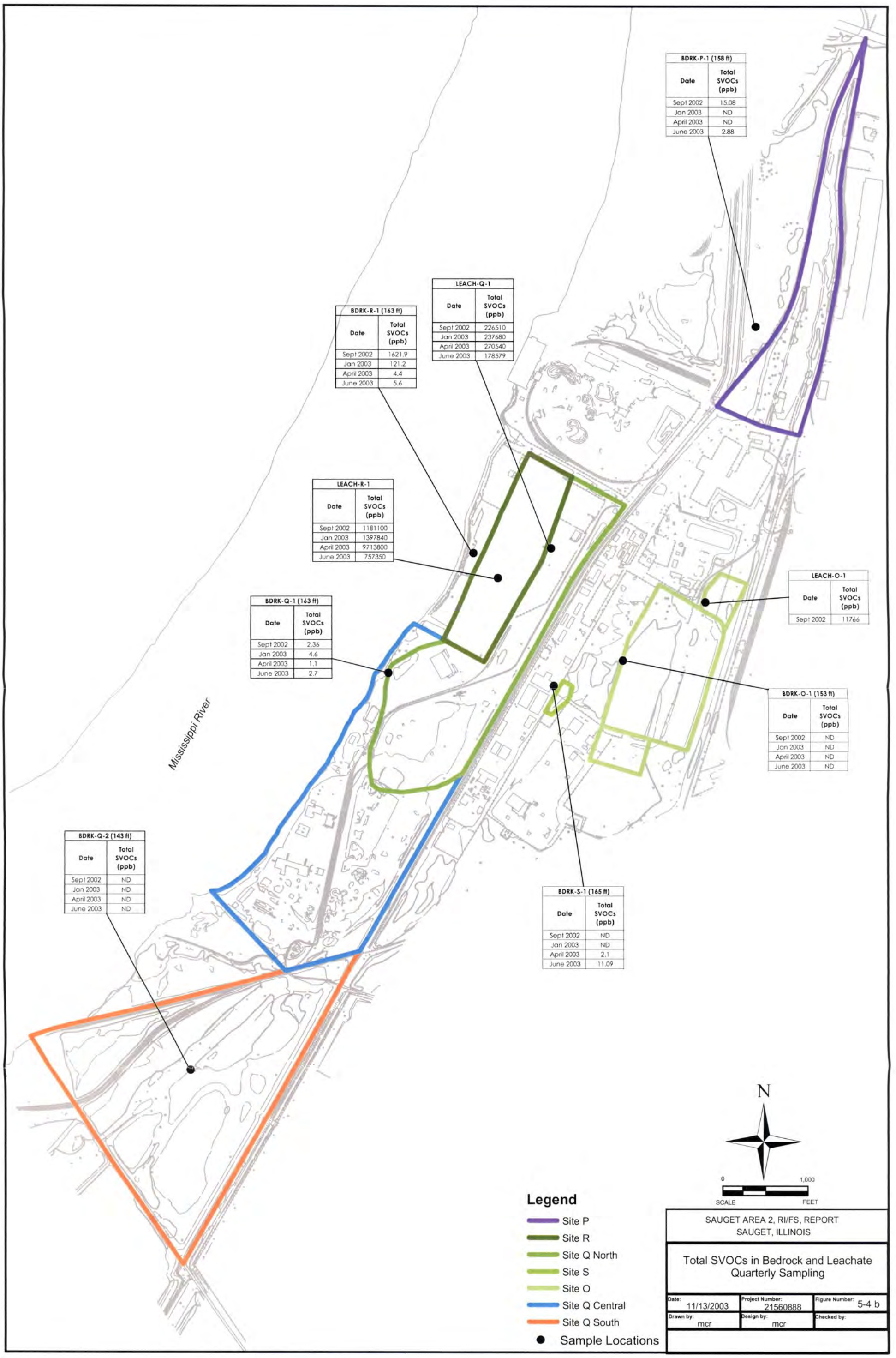
LEACH-O-1	
Date	Total VOCs (ppb)
Sept 2002	5130.6

BDRK-Q-1 (163 ft)	
Date	Total VOCs (ppb)
Sept 2002	2.63
Jan 2003	1
April 2003	1.63
June 2003	3.62

BDRK-O-1 (153 ft)	
Date	Total VOCs (ppb)
Sept 2002	1.3
Jan 2003	ND
April 2003	1.2
June 2003	ND

BDRK-Q-2 (143 ft)	
Date	Total VOCs (ppb)
Sept 2002	ND
Jan 2003	7.31
April 2003	ND
June 2003	ND

BDRK-S-1 (165 ft)	
Date	Total VOCs (ppb)
Sept 2002	0.5
Jan 2003	ND
April 2003	4.77
June 2003	0.95



BDRK-P-1 (158 ft)

Date	Total SVOCs (ppb)
Sept 2002	15.08
Jan 2003	ND
April 2003	ND
June 2003	2.88

LEACH-Q-1

Date	Total SVOCs (ppb)
Sept 2002	226510
Jan 2003	237680
April 2003	270540
June 2003	178579

BDRK-R-1 (163 ft)

Date	Total SVOCs (ppb)
Sept 2002	1621.9
Jan 2003	121.2
April 2003	4.4
June 2003	5.6

LEACH-R-1

Date	Total SVOCs (ppb)
Sept 2002	1181100
Jan 2003	1397840
April 2003	9713800
June 2003	757350

LEACH-O-1

Date	Total SVOCs (ppb)
Sept 2002	11766

BDRK-Q-1 (163 ft)

Date	Total SVOCs (ppb)
Sept 2002	2.36
Jan 2003	4.6
April 2003	1.1
June 2003	2.7

BDRK-O-1 (153 ft)

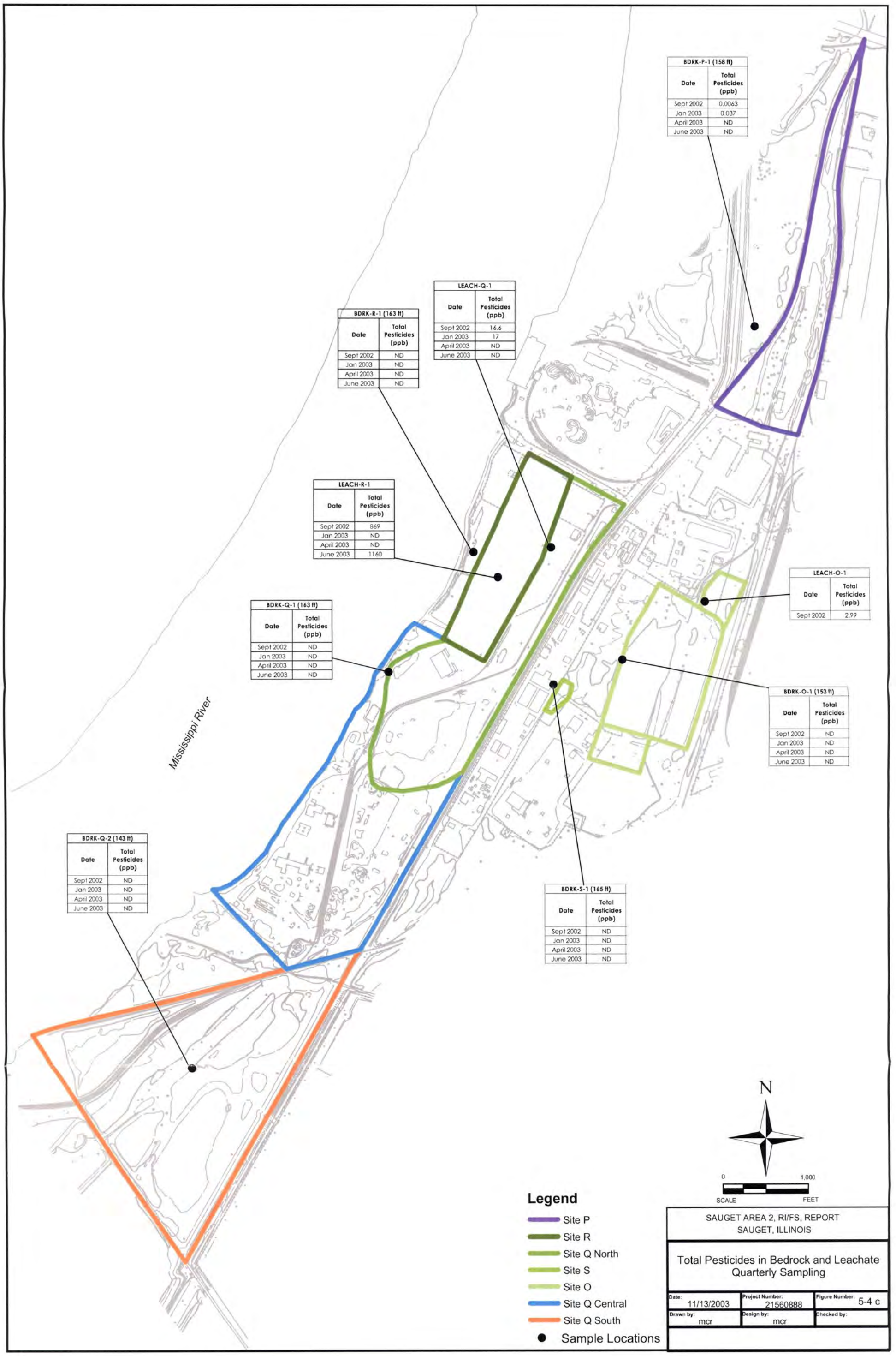
Date	Total SVOCs (ppb)
Sept 2002	ND
Jan 2003	ND
April 2003	ND
June 2003	ND

BDRK-Q-2 (143 ft)

Date	Total SVOCs (ppb)
Sept 2002	ND
Jan 2003	ND
April 2003	ND
June 2003	ND

BDRK-S-1 (165 ft)

Date	Total SVOCs (ppb)
Sept 2002	ND
Jan 2003	ND
April 2003	2.1
June 2003	11.09



BDRK-P-1 (158 ft)	
Date	Total Pesticides (ppb)
Sept 2002	0.0063
Jan 2003	0.037
April 2003	ND
June 2003	ND

LEACH-Q-1	
Date	Total Pesticides (ppb)
Sept 2002	16.6
Jan 2003	17
April 2003	ND
June 2003	ND

BDRK-R-1 (163 ft)	
Date	Total Pesticides (ppb)
Sept 2002	ND
Jan 2003	ND
April 2003	ND
June 2003	ND

LEACH-R-1	
Date	Total Pesticides (ppb)
Sept 2002	869
Jan 2003	ND
April 2003	ND
June 2003	1160

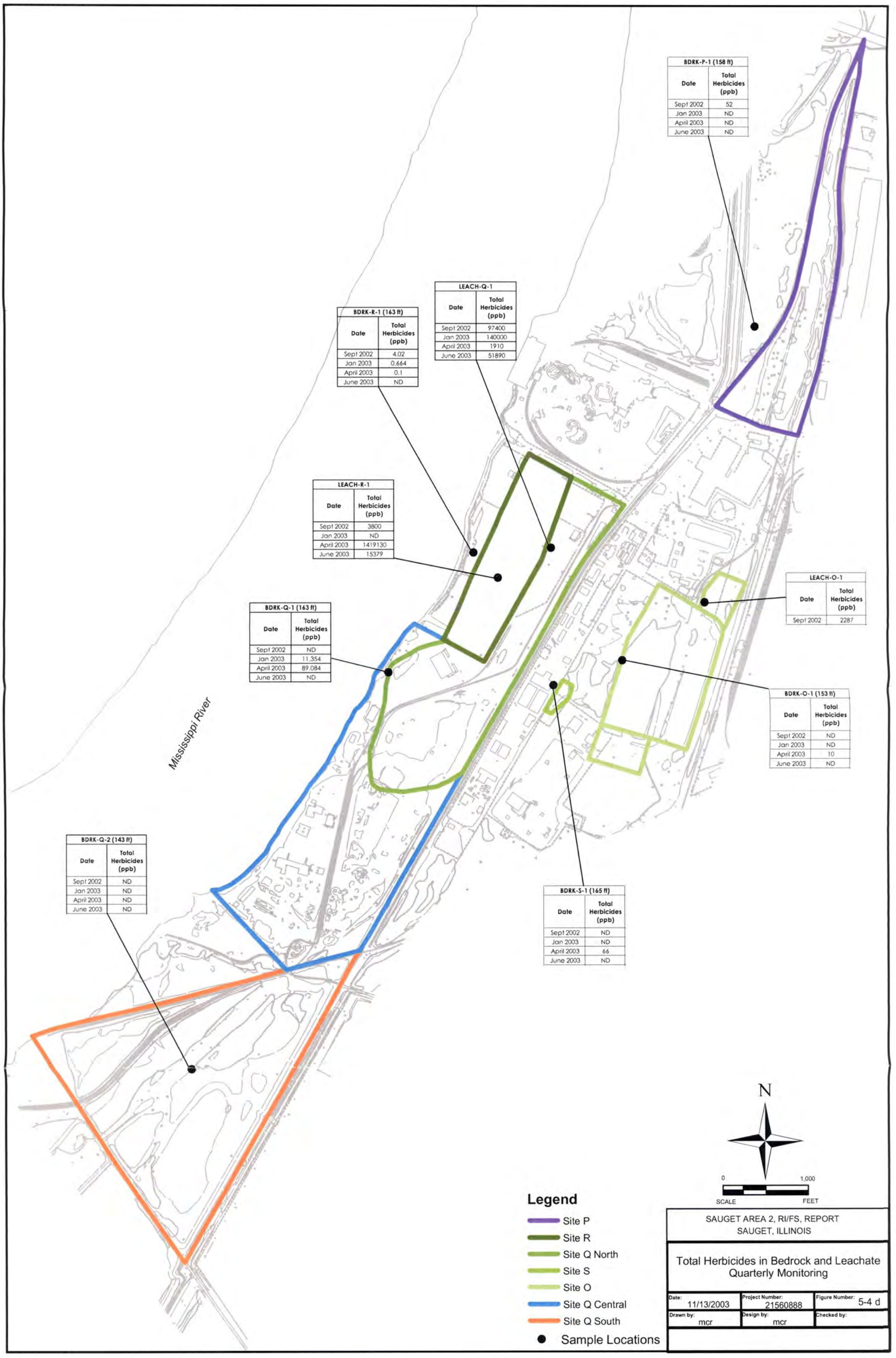
LEACH-O-1	
Date	Total Pesticides (ppb)
Sept 2002	2.99

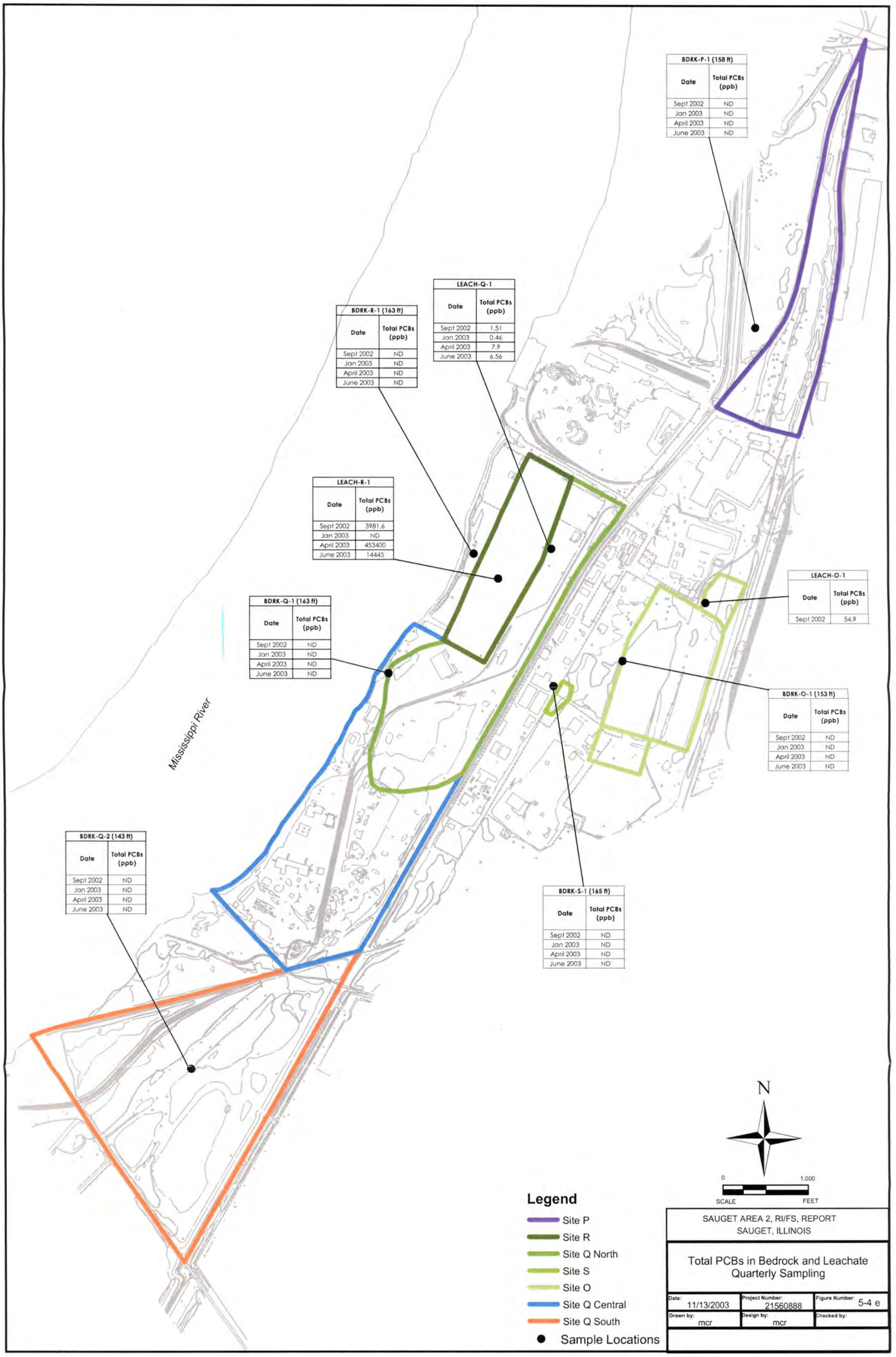
BDRK-Q-1 (163 ft)	
Date	Total Pesticides (ppb)
Sept 2002	ND
Jan 2003	ND
April 2003	ND
June 2003	ND

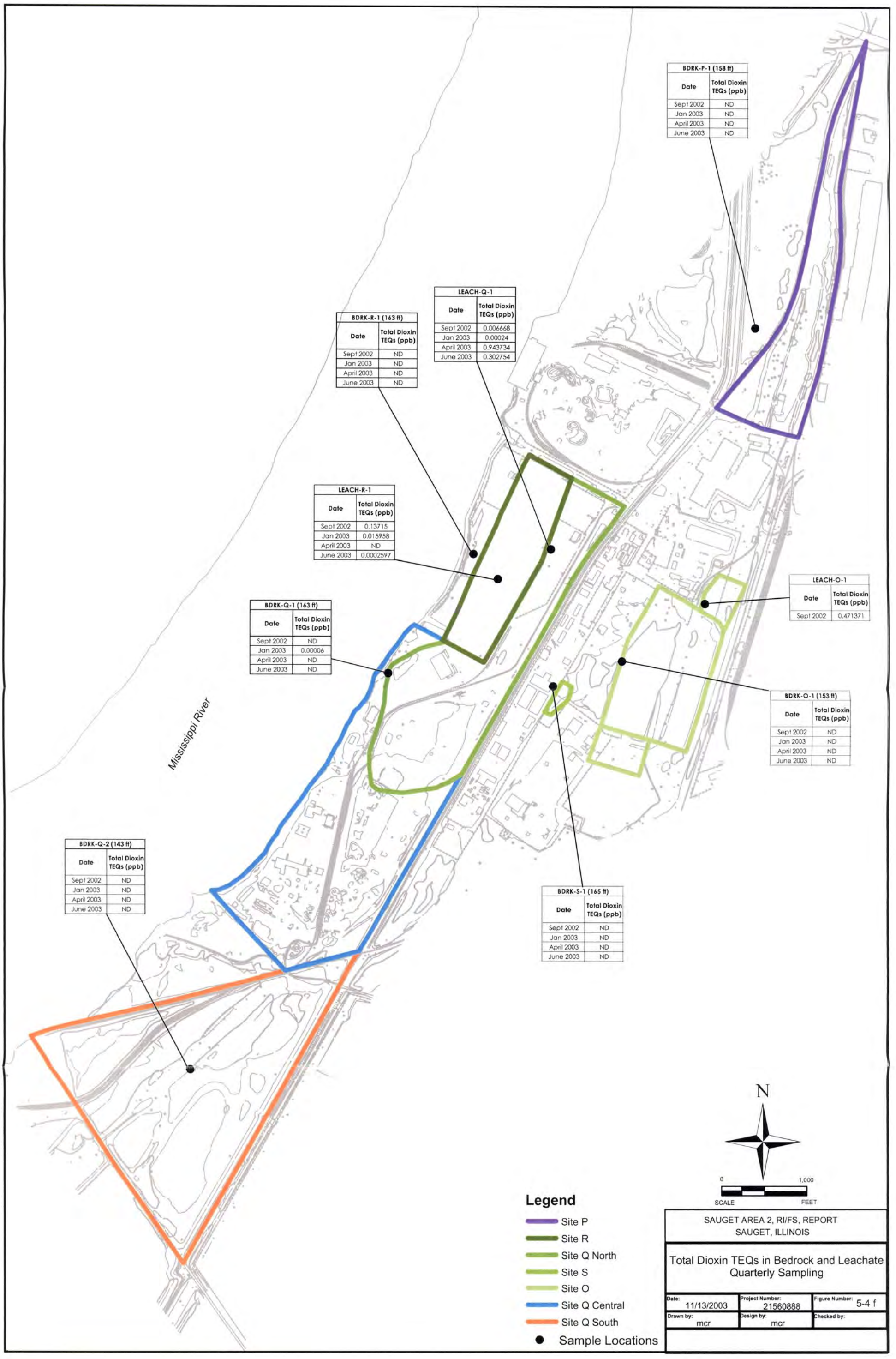
BDRK-O-1 (153 ft)	
Date	Total Pesticides (ppb)
Sept 2002	ND
Jan 2003	ND
April 2003	ND
June 2003	ND

BDRK-Q-2 (143 ft)	
Date	Total Pesticides (ppb)
Sept 2002	ND
Jan 2003	ND
April 2003	ND
June 2003	ND

BDRK-S-1 (165 ft)	
Date	Total Pesticides (ppb)
Sept 2002	ND
Jan 2003	ND
April 2003	ND
June 2003	ND


BDRK-P-1 (158 ft)
Date | Total Herbicides (ppb)
Sept 2002 | 52
Jan 2003 | ND
April 2003 | ND
June 2003 | ND
LEACH-Q-1
Date | Total Herbicides (ppb)
Sept 2002 | 97400
Jan 2003 | 140000
April 2003 | 1910
June 2003 | 51890
BDRK-R-1 (163 ft)
Date | Total Herbicides (ppb)
Sept 2002 | 4.02
Jan 2003 | 0.664
April 2003 | 0.1
June 2003 | ND
LEACH-R-1
Date | Total Herbicides (ppb)
Sept 2002 | 3800
Jan 2003 | ND
April 2003 | 1419130
June 2003 | 15379
LEACH-O-1
Date | Total Herbicides (ppb)
Sept 2002 | 2287
BDRK-Q-1 (163 ft)
Date | Total Herbicides (ppb)
Sept 2002 | ND
Jan 2003 | 11,354
April 2003 | 89,084
June 2003 | ND
BDRK-O-1 (153 ft)
Date | Total Herbicides (ppb)
Sept 2002 | ND
Jan 2003 | ND
April 2003 | 10
June 2003 | ND
Mississippi River
BDRK-Q-2 (143 ft)
Date | Total Herbicides (ppb)
Sept 2002 | ND
Jan 2003 | ND
April 2003 | ND
June 2003 | ND
BDRK-S-1 (165 ft)
Date | Total Herbicides (ppb)
Sept 2002 | ND
Jan 2003 | ND
April 2003 | 66
June 2003 | ND
N
0
1,000
SCALE
FEET
Legend
Site P
Site R
Site Q North
Site S
Site O
Site Q Central
Site Q South
Sample Locations
SAUGET AREA 2, RI/FS, REPORT
SAUGET, ILLINOIS
Total Herbicides in Bedrock and Leachate
Quarterly Monitoring
Date: 11/13/2003
Project Number: 21560888
Figure Number: 5-4 d
Drawn by: mcr
Design by: mcr
Checked by:


BDRK-P-1 (158 ft)
Date | Total PCBs (ppb)
Sept 2002 | ND
Jan 2003 | ND
April 2003 | ND
June 2003 | ND
LEACH-Q-1
Date | Total PCBs (ppb)
Sept 2002 | 1.51
Jan 2003 | 0.46
April 2003 | 7.9
June 2003 | 6.56
BDRK-R-1 (163 ft)
Date | Total PCBs (ppb)
Sept 2002 | ND
Jan 2003 | ND
April 2003 | ND
June 2003 | ND
LEACH-R-1
Date | Total PCBs (ppb)
Sept 2002 | 3981.6
Jan 2003 | ND
April 2003 | 453400
June 2003 | 14445
LEACH-O-1
Date | Total PCBs (ppb)
Sept 2002 | 54.9
BDRK-Q-1 (163 ft)
Date | Total PCBs (ppb)
Sept 2002 | ND
Jan 2003 | ND
April 2003 | ND
June 2003 | ND
BDRK-O-1 (153 ft)
Date | Total PCBs (ppb)
Sept 2002 | ND
Jan 2003 | ND
April 2003 | ND
June 2003 | ND
Mississippi River
BDRK-Q-2 (143 ft)
Date | Total PCBs (ppb)
Sept 2002 | ND
Jan 2003 | ND
April 2003 | ND
June 2003 | ND
BDRK-S-1 (165 ft)
Date | Total PCBs (ppb)
Sept 2002 | ND
Jan 2003 | ND
April 2003 | ND
June 2003 | ND
N
0
1,000
SCALE
FEET
Legend
Site P
Site R
Site Q North
Site S
Site O
Site Q Central
Site Q South
Sample Locations
SAUGET AREA 2, RI/FS, REPORT
SAUGET, ILLINOIS
Total PCBs in Bedrock and Leachate
Quarterly Sampling
Date: 11/13/2003
Project Number: 21560888
Figure Number: 5-4 e
Drawn by: mcr
Design by: mcr
Checked by:



BDRK-P-1 (158 ft)	
Date	Total Dioxin TEQs (ppb)
Sept 2002	ND
Jan 2003	ND
April 2003	ND
June 2003	ND

LEACH-Q-1	
Date	Total Dioxin TEQs (ppb)
Sept 2002	0.006668
Jan 2003	0.00024
April 2003	0.943734
June 2003	0.302754

BDRK-R-1 (163 ft)	
Date	Total Dioxin TEQs (ppb)
Sept 2002	ND
Jan 2003	ND
April 2003	ND
June 2003	ND

LEACH-R-1	
Date	Total Dioxin TEQs (ppb)
Sept 2002	0.13715
Jan 2003	0.015958
April 2003	ND
June 2003	0.0002597

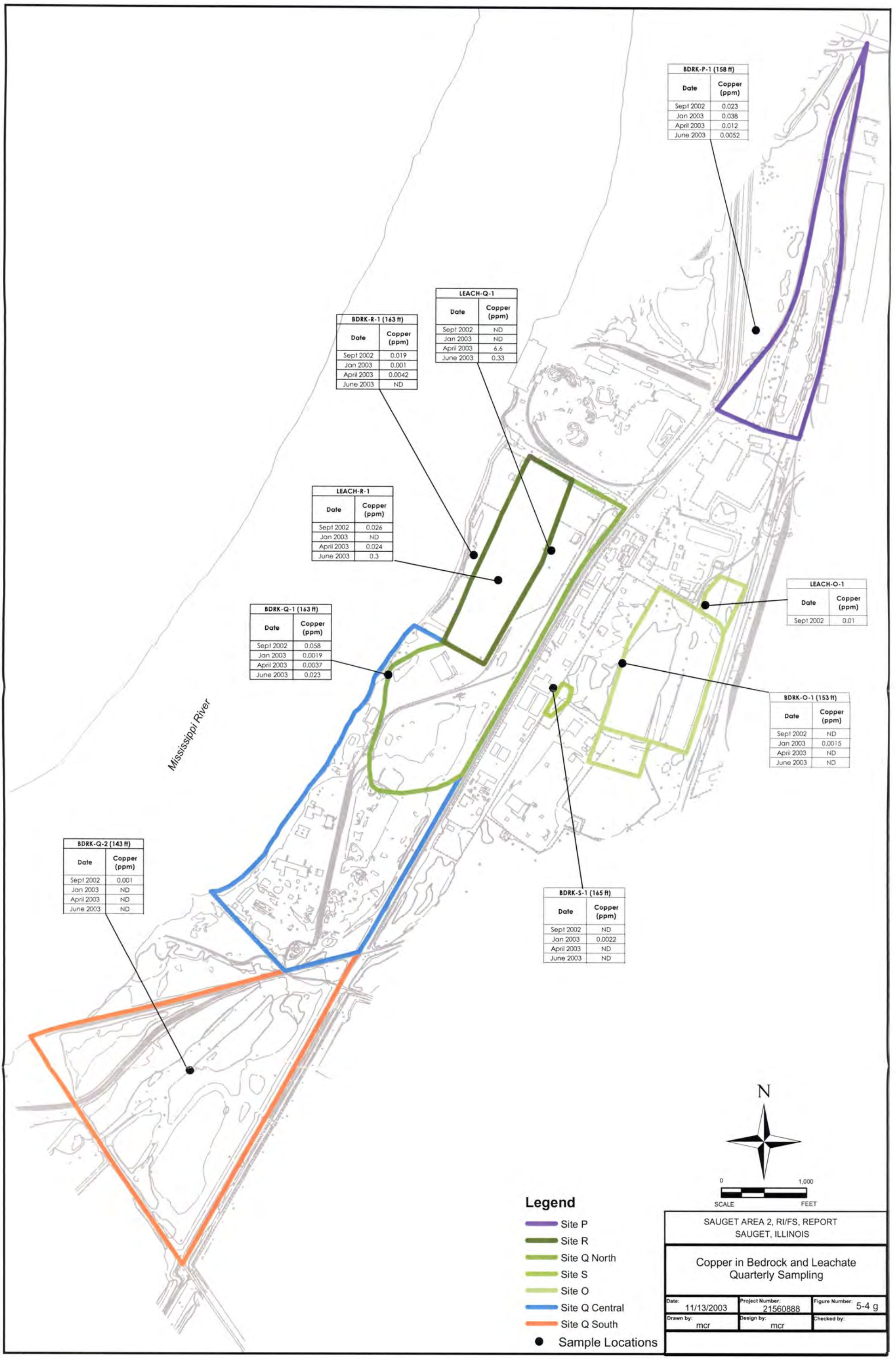
LEACH-O-1	
Date	Total Dioxin TEQs (ppb)
Sept 2002	0.471371

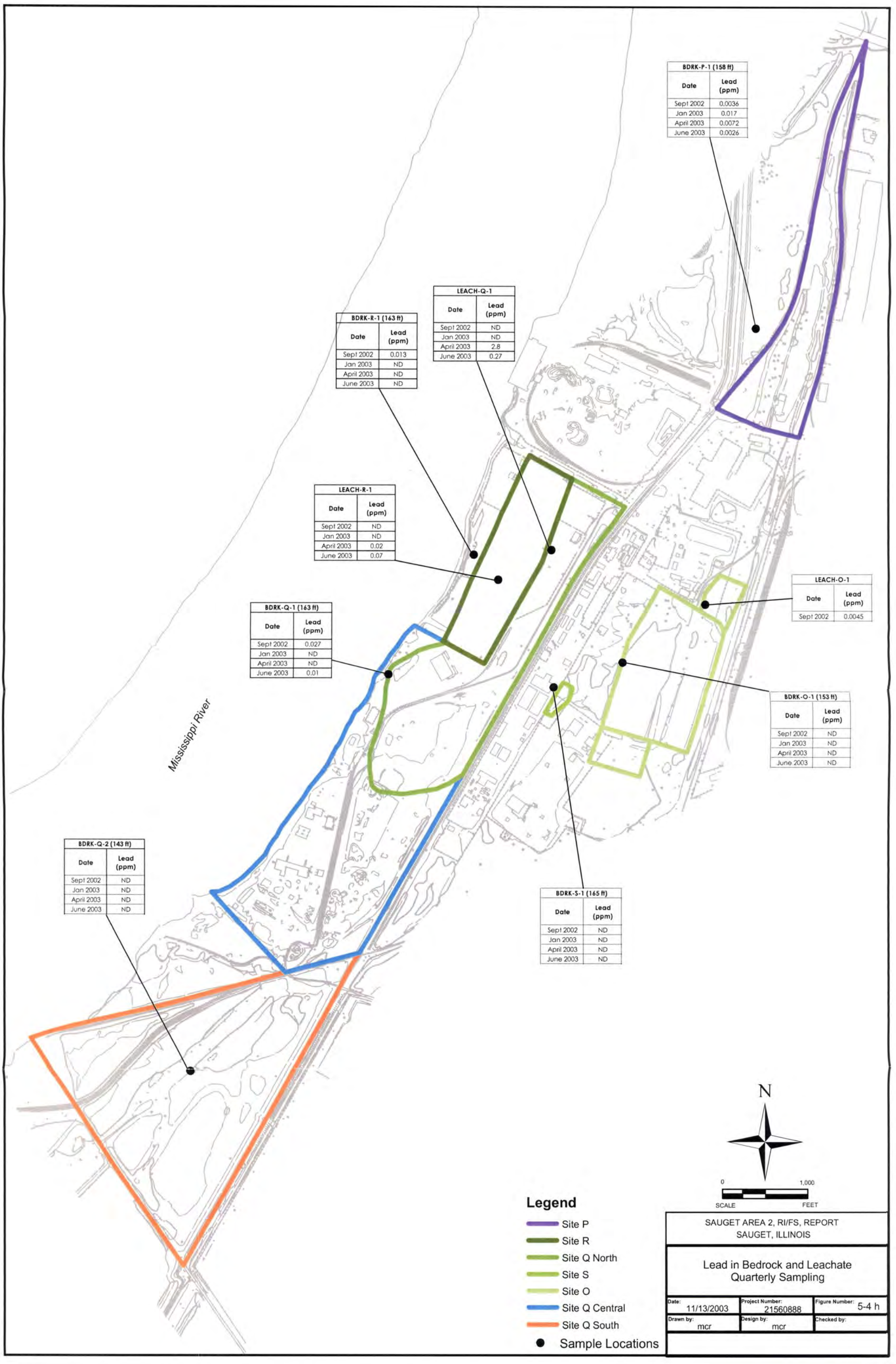
BDRK-Q-1 (163 ft)	
Date	Total Dioxin TEQs (ppb)
Sept 2002	ND
Jan 2003	0.00006
April 2003	ND
June 2003	ND

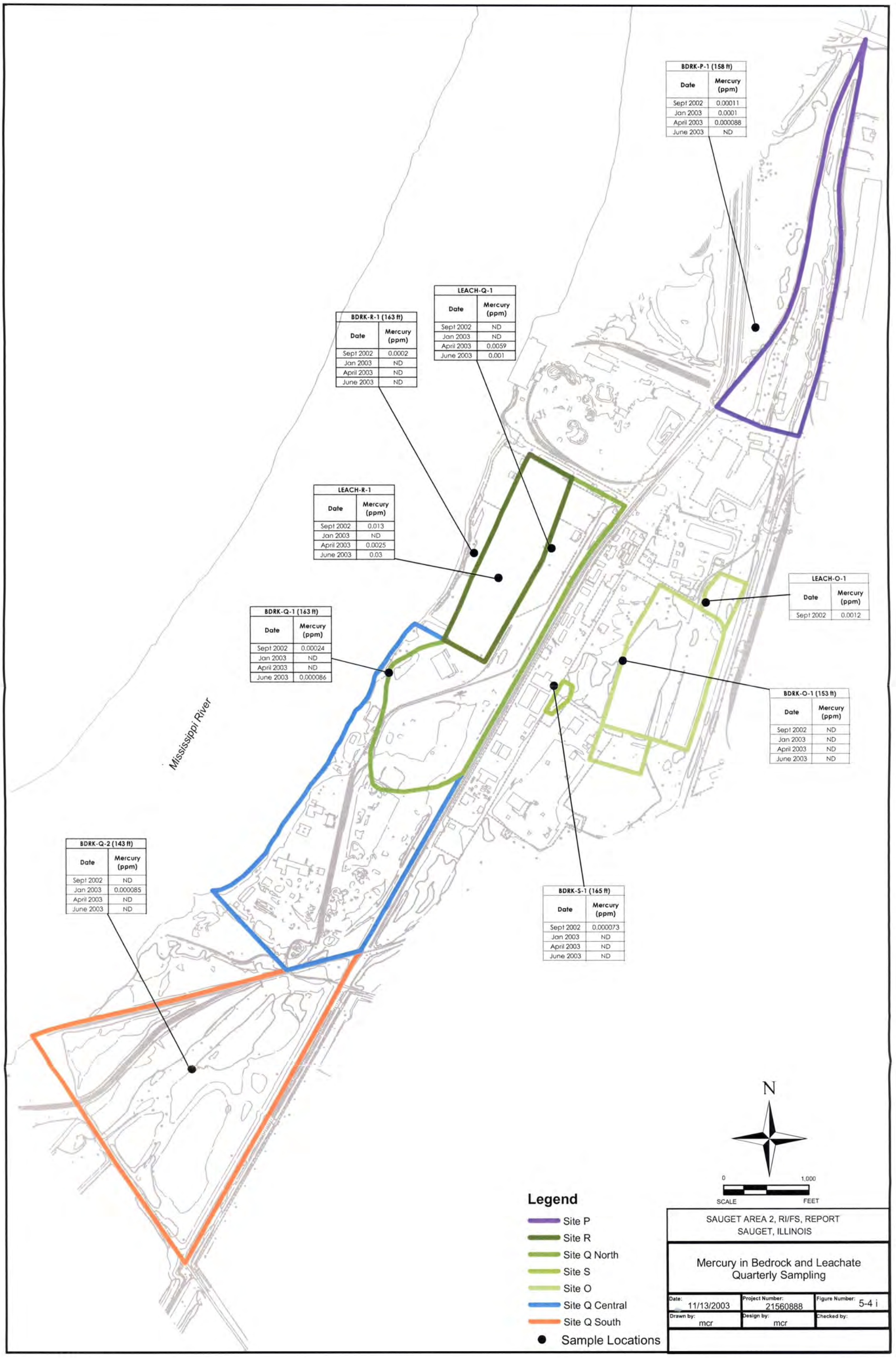
BDRK-O-1 (153 ft)	
Date	Total Dioxin TEQs (ppb)
Sept 2002	ND
Jan 2003	ND
April 2003	ND
June 2003	ND

BDRK-Q-2 (143 ft)	
Date	Total Dioxin TEQs (ppb)
Sept 2002	ND
Jan 2003	ND
April 2003	ND
June 2003	ND

BDRK-S-1 (165 ft)	
Date	Total Dioxin TEQs (ppb)
Sept 2002	ND
Jan 2003	ND
April 2003	ND
June 2003	ND


BDRK-P-1 (158 ft)
Date | Copper (ppm)
Sept 2002 | 0.023
Jan 2003 | 0.038
April 2003 | 0.012
June 2003 | 0.0052
LEACH-Q-1
Date | Copper (ppm)
Sept 2002 | ND
Jan 2003 | ND
April 2003 | 6.6
June 2003 | 0.33
BDRK-R-1 (163 ft)
Date | Copper (ppm)
Sept 2002 | 0.019
Jan 2003 | 0.001
April 2003 | 0.0042
June 2003 | ND
LEACH-R-1
Date | Copper (ppm)
Sept 2002 | 0.026
Jan 2003 | ND
April 2003 | 0.024
June 2003 | 0.3
LEACH-O-1
Date | Copper (ppm)
Sept 2002 | 0.01
BDRK-Q-1 (163 ft)
Date | Copper (ppm)
Sept 2002 | 0.058
Jan 2003 | 0.0019
April 2003 | 0.0037
June 2003 | 0.023
BDRK-O-1 (153 ft)
Date | Copper (ppm)
Sept 2002 | ND
Jan 2003 | 0.0015
April 2003 | ND
June 2003 | ND
Mississippi River
BDRK-Q-2 (143 ft)
Date | Copper (ppm)
Sept 2002 | 0.001
Jan 2003 | ND
April 2003 | ND
June 2003 | ND
BDRK-S-1 (165 ft)
Date | Copper (ppm)
Sept 2002 | ND
Jan 2003 | 0.0022
April 2003 | ND
June 2003 | ND
N
0
1,000
SCALE
FEET
Legend
Site P
Site R
Site Q North
Site S
Site O
Site Q Central
Site Q South
Sample Locations
SAUGET AREA 2, RI/FS, REPORT
SAUGET, ILLINOIS
Copper in Bedrock and Leachate
Quarterly Sampling
Date: 11/13/2003
Project Number: 21560888
Figure Number: 5-4 g
Drawn by: mcr
Design by: mcr
Checked by:

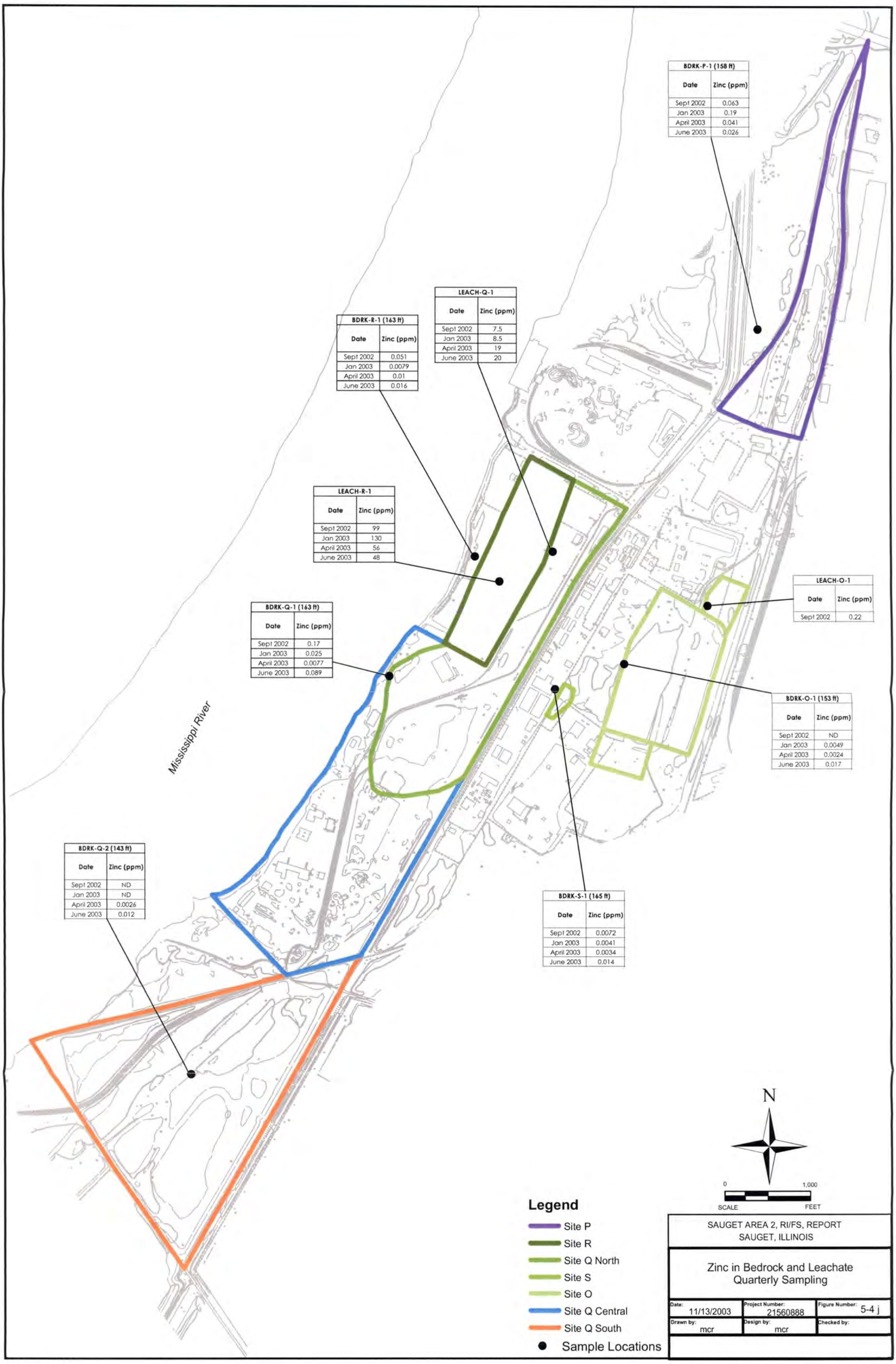

BDRK-P-1 (158 ft)
Date | Lead (ppm)
Sept 2002 | 0.0036
Jan 2003 | 0.017
April 2003 | 0.0072
June 2003 | 0.0026
LEACH-Q-1
Date | Lead (ppm)
Sept 2002 | ND
Jan 2003 | ND
April 2003 | 2.8
June 2003 | 0.27
BDRK-R-1 (163 ft)
Date | Lead (ppm)
Sept 2002 | 0.013
Jan 2003 | ND
April 2003 | ND
June 2003 | ND
LEACH-R-1
Date | Lead (ppm)
Sept 2002 | ND
Jan 2003 | ND
April 2003 | 0.02
June 2003 | 0.07
LEACH-O-1
Date | Lead (ppm)
Sept 2002 | 0.0045
BDRK-Q-1 (163 ft)
Date | Lead (ppm)
Sept 2002 | 0.027
Jan 2003 | ND
April 2003 | ND
June 2003 | 0.01
BDRK-O-1 (153 ft)
Date | Lead (ppm)
Sept 2002 | ND
Jan 2003 | ND
April 2003 | ND
June 2003 | ND
Mississippi River
BDRK-Q-2 (143 ft)
Date | Lead (ppm)
Sept 2002 | ND
Jan 2003 | ND
April 2003 | ND
June 2003 | ND
BDRK-S-1 (165 ft)
Date | Lead (ppm)
Sept 2002 | ND
Jan 2003 | ND
April 2003 | ND
June 2003 | ND
N
0
1,000
SCALE
FEET
Legend
Site P
Site R
Site Q North
Site S
Site O
Site Q Central
Site Q South
Sample Locations
SAUGET AREA 2, RI/FS, REPORT
SAUGET, ILLINOIS
Lead in Bedrock and Leachate
Quarterly Sampling
Date: 11/13/2003
Project Number: 21560888
Figure Number: 5-4 h
Drawn by: mcr
Design by: mcr
Checked by:



SAUGET AREA 2, RI/FS, REPORT
SAUGET, ILLINOIS

Mercury in Bedrock and Leachate Quarterly Sampling

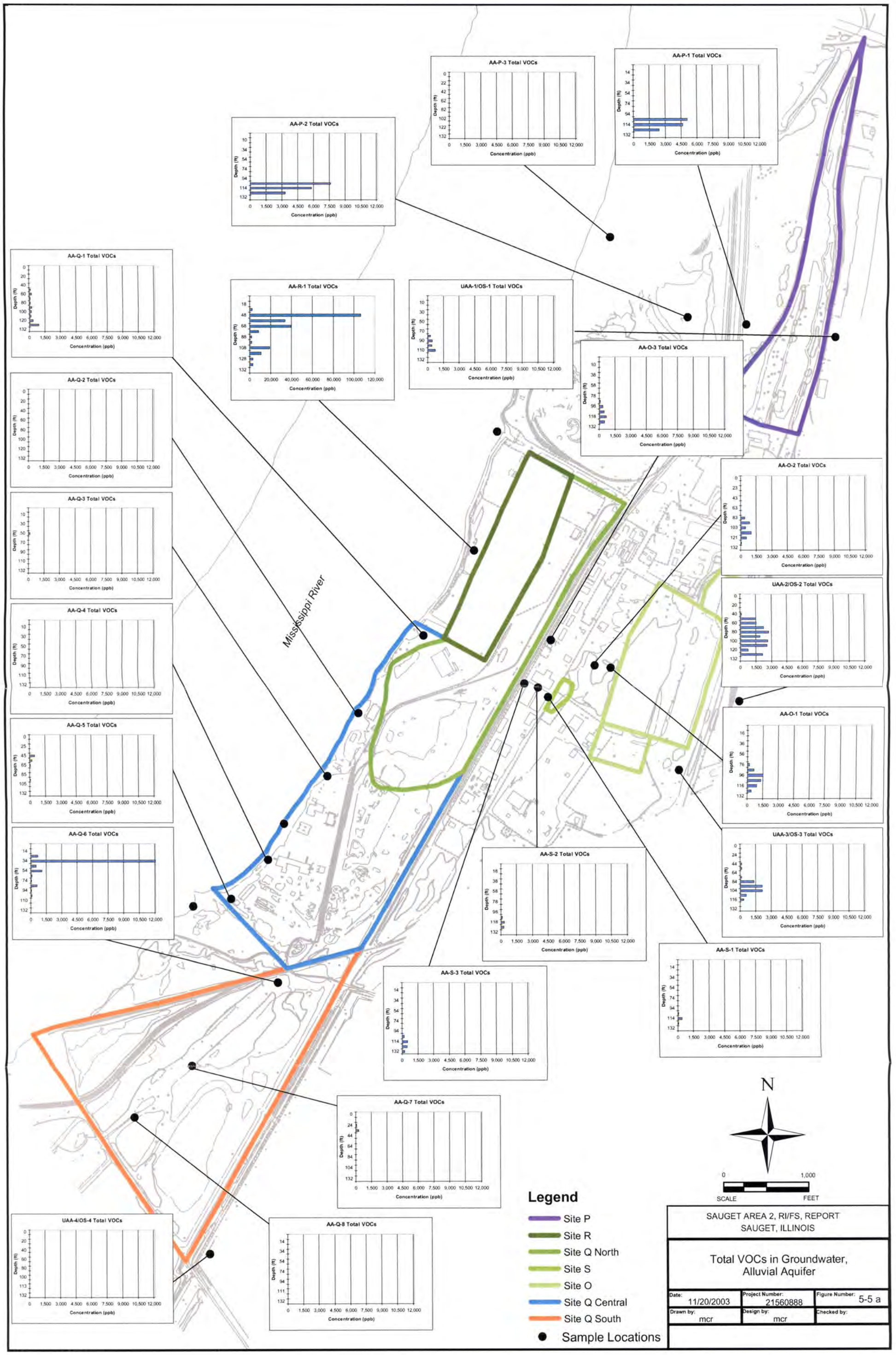
Date:	Project Number:	Figure Number:
11/13/2003	21560888	5-4 i
Drawn by: mcr	Design by: mcr	Checked by:



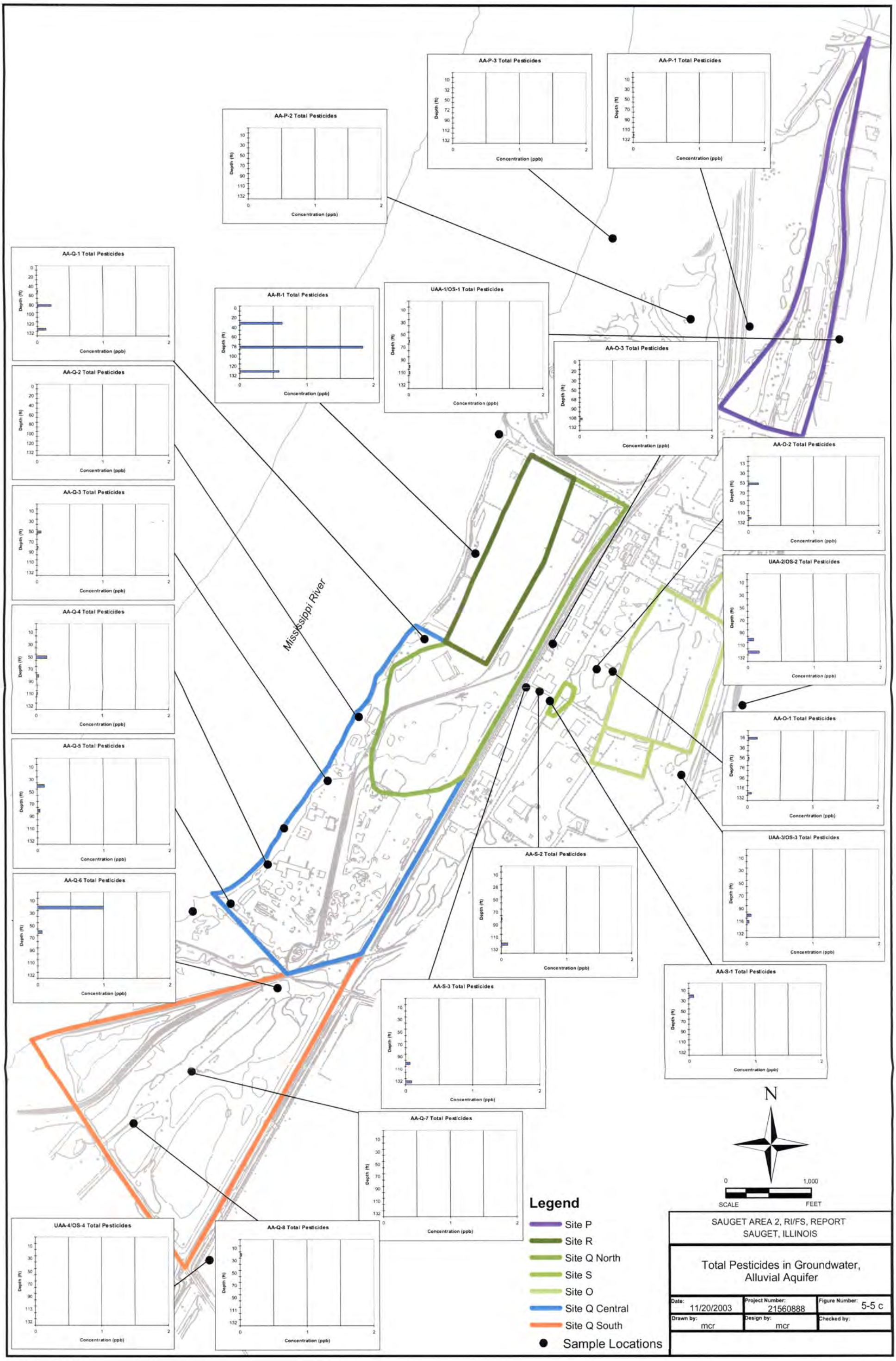
SAUGET AREA 2, RI/FS, REPORT
SAUGET, ILLINOIS

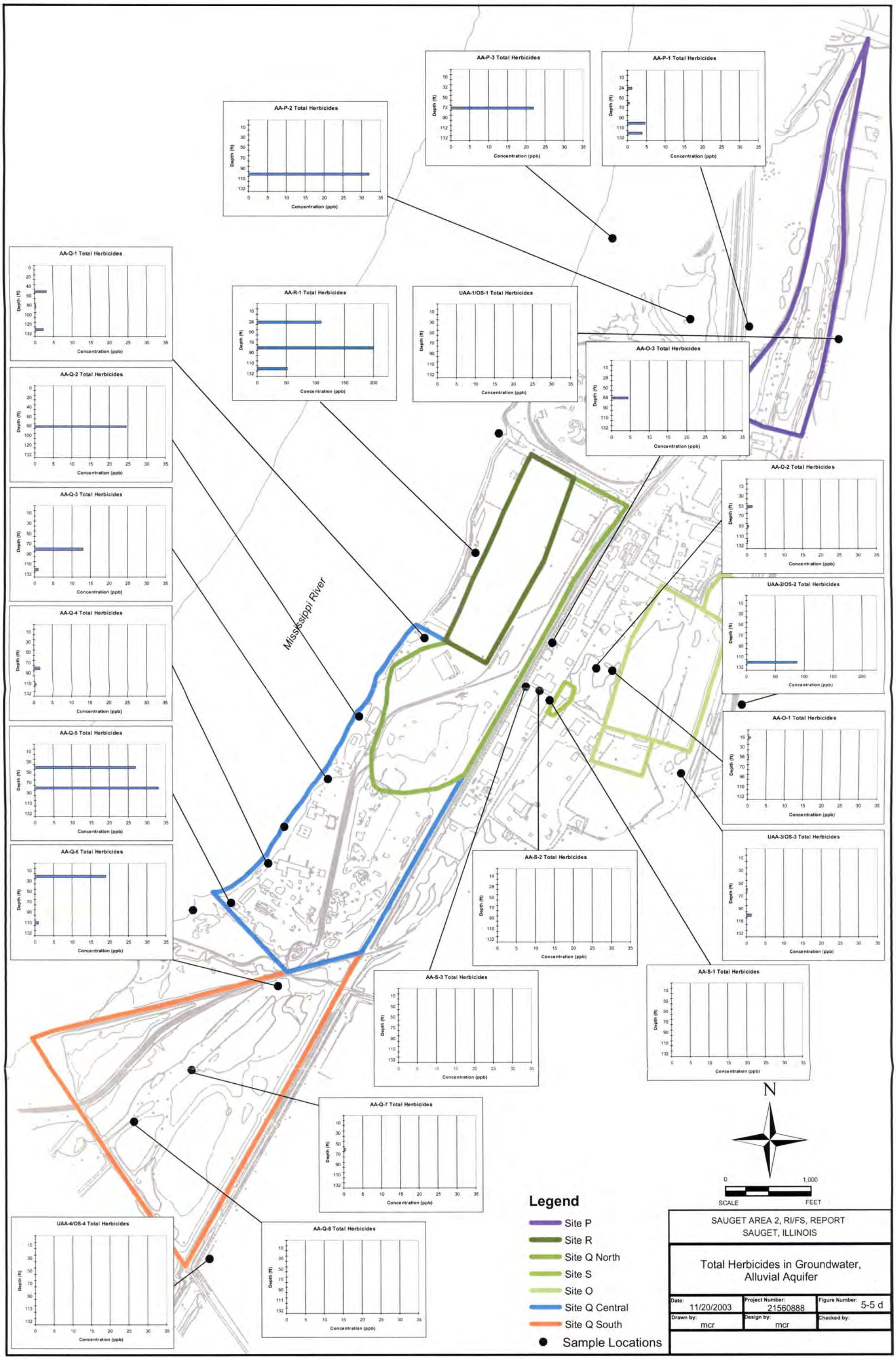
Zinc in Bedrock and Leachate
Quarterly Sampling

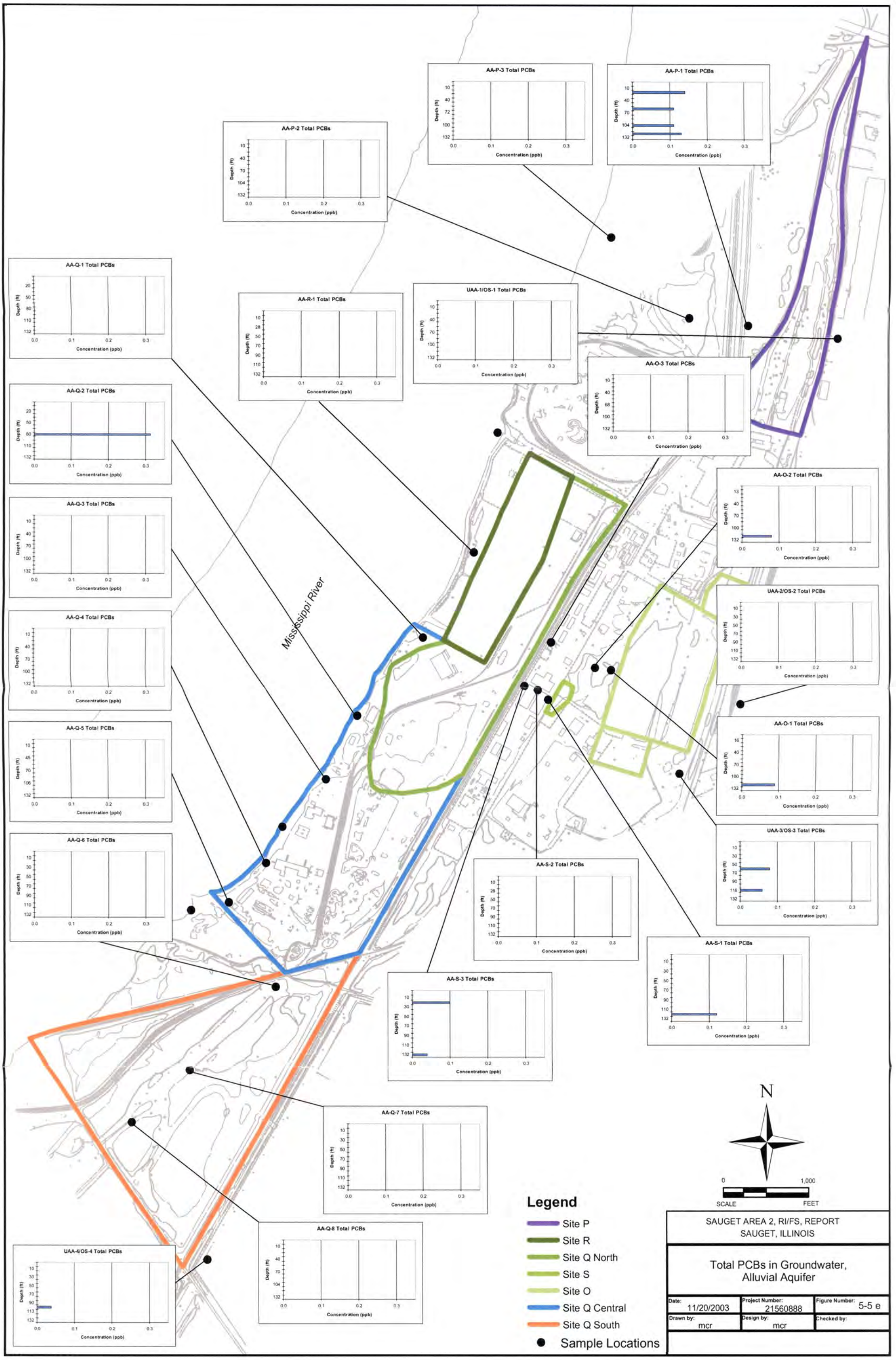
Date:	Project Number:	Figure Number:
11/13/2003	21560888	5-4 j
Drawn by: mcr	Design by: mcr	Checked by:


AA-P-3 Total VOCs
AA-P-1 Total VOCs
AA-P-2 Total VOCs
AA-Q-1 Total VOCs
AA-R-1 Total VOCs
UAA-1/OS-1 Total VOCs
AA-O-3 Total VOCs
AA-Q-2 Total VOCs
AA-O-2 Total VOCs
AA-Q-3 Total VOCs
UAA-2/OS-2 Total VOCs
AA-Q-4 Total VOCs
AA-O-1 Total VOCs
AA-Q-5 Total VOCs
UAA-3/OS-3 Total VOCs
AA-Q-6 Total VOCs
AA-S-2 Total VOCs
AA-S-1 Total VOCs
AA-S-3 Total VOCs
AA-Q-7 Total VOCs
UAA-4/OS-4 Total VOCs
AA-Q-8 Total VOCs
Depth (ft)
Concentration (ppb)
Mississippi River
N
0
1,000
SCALE
FEET
Legend
Site P
Site R
Site Q North
Site S
Site O
Site Q Central
Site Q South
Sample Locations
SAUGET AREA 2, RI/FS, REPORT
SAUGET, ILLINOIS
Total VOCs in Groundwater, Alluvial Aquifer
Date: 11/20/2003
Project Number: 21560888
Figure Number: 5-5 a
Drawn by: mcr
Design by: mcr
Checked by:

AA-P-3 Total SVOCs
AA-P-1 Total SVOCs
AA-P-2 Total SVOCs
AA-Q-1 Total SVOCs
AA-R-1 Total SVOCs
UAA-1/OS-1 Total SVOCs
AA-O-3 Total SVOCs
AA-Q-2 Total SVOCs
AA-O-2 Total SVOCs
AA-Q-3 Total SVOCs
UAA-2/OS-2 Total SVOCs
AA-Q-4 Total SVOCs
AA-O-1 Total SVOCs
AA-Q-5 Total SVOCs
UAA-3/OS-3 Total SVOCs
AA-Q-6 Total SVOCs
AA-S-2 Total SVOCs
AA-S-1 Total SVOCs
AA-S-3 Total SVOCs
AA-Q-7 Total SVOCs
AA-Q-8 Total SVOCs
UAA-4/OS-4 Total SVOCs
Depth (ft)
Concentration (ppb)
Mississippi River
N
0
1,000
SCALE
FEET
Legend
Site P
Site R
Site Q North
Site S
Site O
Site Q Central
Site Q South
Sample Locations
SAUGET AREA 2, RI/FS, REPORT
SAUGET, ILLINOIS
Total SVOCs in Groundwater,
Alluvial Aquifer
Date: 11/20/2003
Project Number: 21560888
Figure Number: 5-5 b
Drawn by: mcr
Design by: mcr
Checked by:


AA-P-3 Total Pesticides
AA-P-1 Total Pesticides
AA-P-2 Total Pesticides
AA-Q-1 Total Pesticides
AA-R-1 Total Pesticides
UAA-1/OS-1 Total Pesticides
AA-O-3 Total Pesticides
AA-Q-2 Total Pesticides
AA-O-2 Total Pesticides
AA-Q-3 Total Pesticides
UAA-2/OS-2 Total Pesticides
AA-Q-4 Total Pesticides
AA-O-1 Total Pesticides
AA-Q-5 Total Pesticides
UAA-3/OS-3 Total Pesticides
AA-Q-6 Total Pesticides
AA-S-2 Total Pesticides
AA-S-3 Total Pesticides
AA-S-1 Total Pesticides
AA-Q-7 Total Pesticides
UAA-4/OS-4 Total Pesticides
AA-Q-8 Total Pesticides
Depth (ft)
Concentration (ppb)
Mississippi River
N
0
1,000
SCALE
FEET
Legend
Site P
Site R
Site Q North
Site S
Site O
Site Q Central
Site Q South
Sample Locations
SAUGET AREA 2, RI/FS, REPORT
SAUGET, ILLINOIS
Total Pesticides in Groundwater, Alluvial Aquifer
Date: 11/20/2003
Project Number: 21560888
Figure Number: 5-5 c
Drawn by: mcr
Design by: mcr
Checked by:

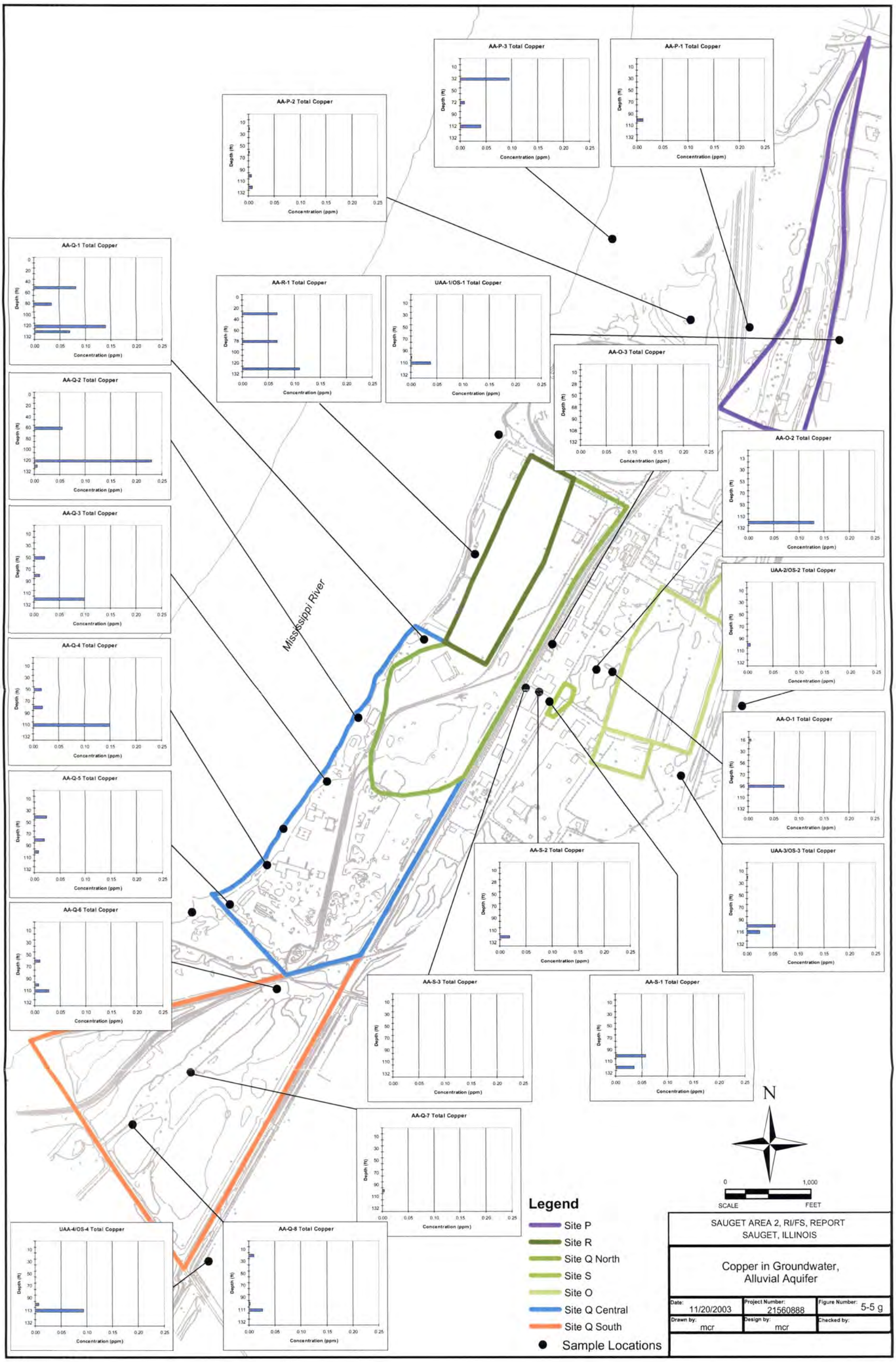

AA-P-3 Total Herbicides
AA-P-1 Total Herbicides
AA-P-2 Total Herbicides
AA-Q-1 Total Herbicides
AA-R-1 Total Herbicides
UAA-1/OS-1 Total Herbicides
AA-O-3 Total Herbicides
AA-Q-2 Total Herbicides
AA-O-2 Total Herbicides
AA-Q-3 Total Herbicides
UAA-2/OS-2 Total Herbicides
AA-Q-4 Total Herbicides
AA-O-1 Total Herbicides
AA-Q-5 Total Herbicides
UAA-3/OS-3 Total Herbicides
AA-Q-6 Total Herbicides
AA-S-2 Total Herbicides
AA-S-3 Total Herbicides
AA-S-1 Total Herbicides
AA-Q-7 Total Herbicides
UAA-4/OS-4 Total Herbicides
AA-Q-8 Total Herbicides
Depth (ft)
Concentration (ppb)
Mississippi River
N
0
1,000
SCALE
FEET
Legend
Site P
Site R
Site Q North
Site S
Site O
Site Q Central
Site Q South
Sample Locations
SAUGET AREA 2, RI/FS, REPORT
SAUGET, ILLINOIS
Total Herbicides in Groundwater, Alluvial Aquifer
Date: 11/20/2003
Project Number: 21560888
Figure Number: 5-5 d
Drawn by: mcr
Design by: mcr
Checked by:

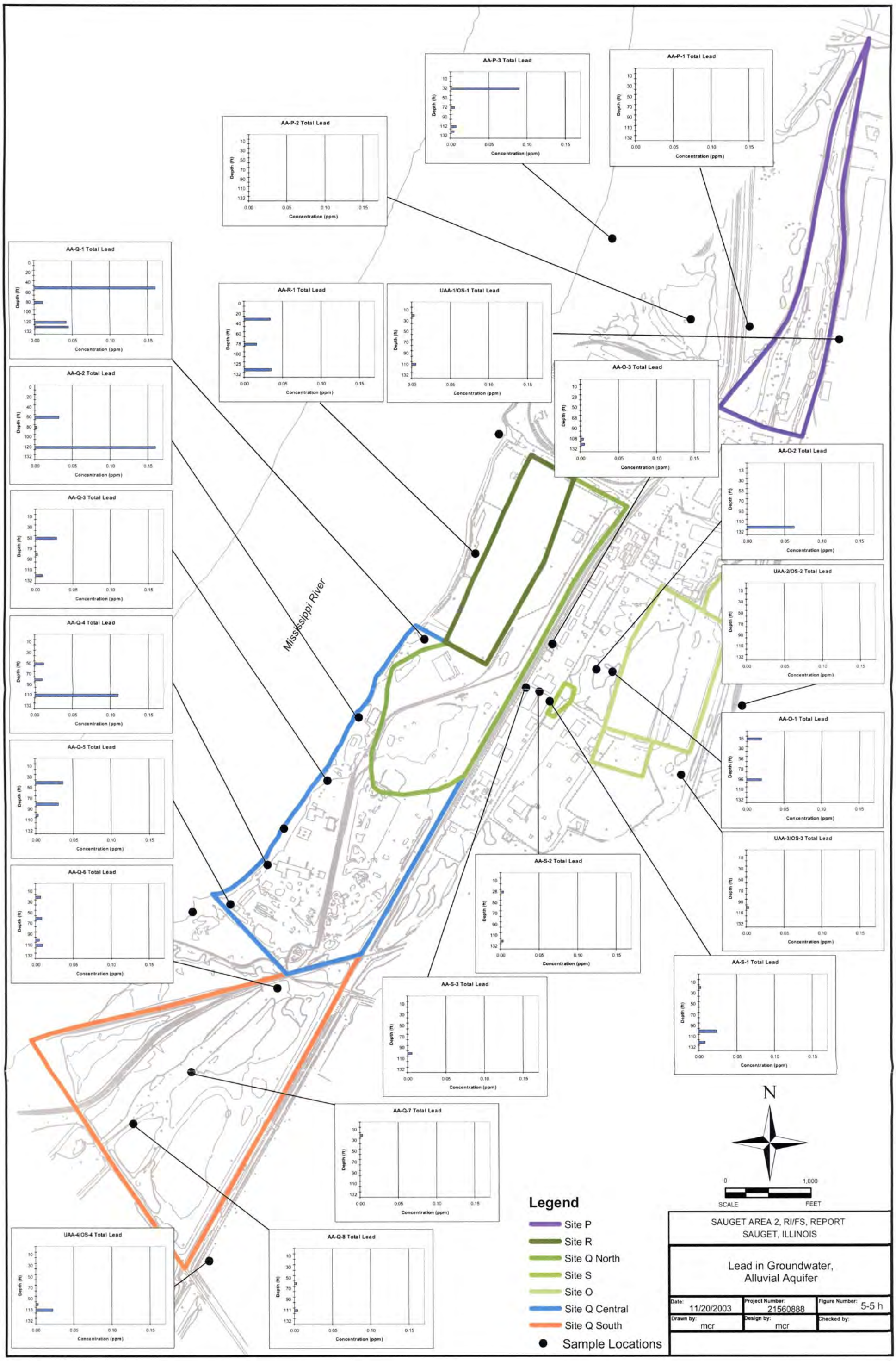

AA-P-3 Total PCBs
AA-P-1 Total PCBs
AA-P-2 Total PCBs
AA-Q-1 Total PCBs
AA-R-1 Total PCBs
UAA-1/OS-1 Total PCBs
AA-O-3 Total PCBs
AA-Q-2 Total PCBs
AA-O-2 Total PCBs
AA-Q-3 Total PCBs
UAA-2/OS-2 Total PCBs
Mississippi River
AA-Q-4 Total PCBs
AA-Q-5 Total PCBs
AA-O-1 Total PCBs
UAA-3/OS-3 Total PCBs
AA-Q-6 Total PCBs
AA-S-2 Total PCBs
AA-S-1 Total PCBs
AA-S-3 Total PCBs
AA-Q-7 Total PCBs
AA-Q-8 Total PCBs
UAA-4/OS-4 Total PCBs
Depth (ft)
Concentration (ppb)
N
0
1,000
SCALE
FEET
Legend
Site P
Site R
Site Q North
Site S
Site O
Site Q Central
Site Q South
Sample Locations
SAUGET AREA 2, RI/FS, REPORT
SAUGET, ILLINOIS
Total PCBs in Groundwater,
Alluvial Aquifer
Date: 11/20/2003
Project Number: 21560888
Figure Number: 5-5 e
Drawn by: mcr
Design by: mcr
Checked by:

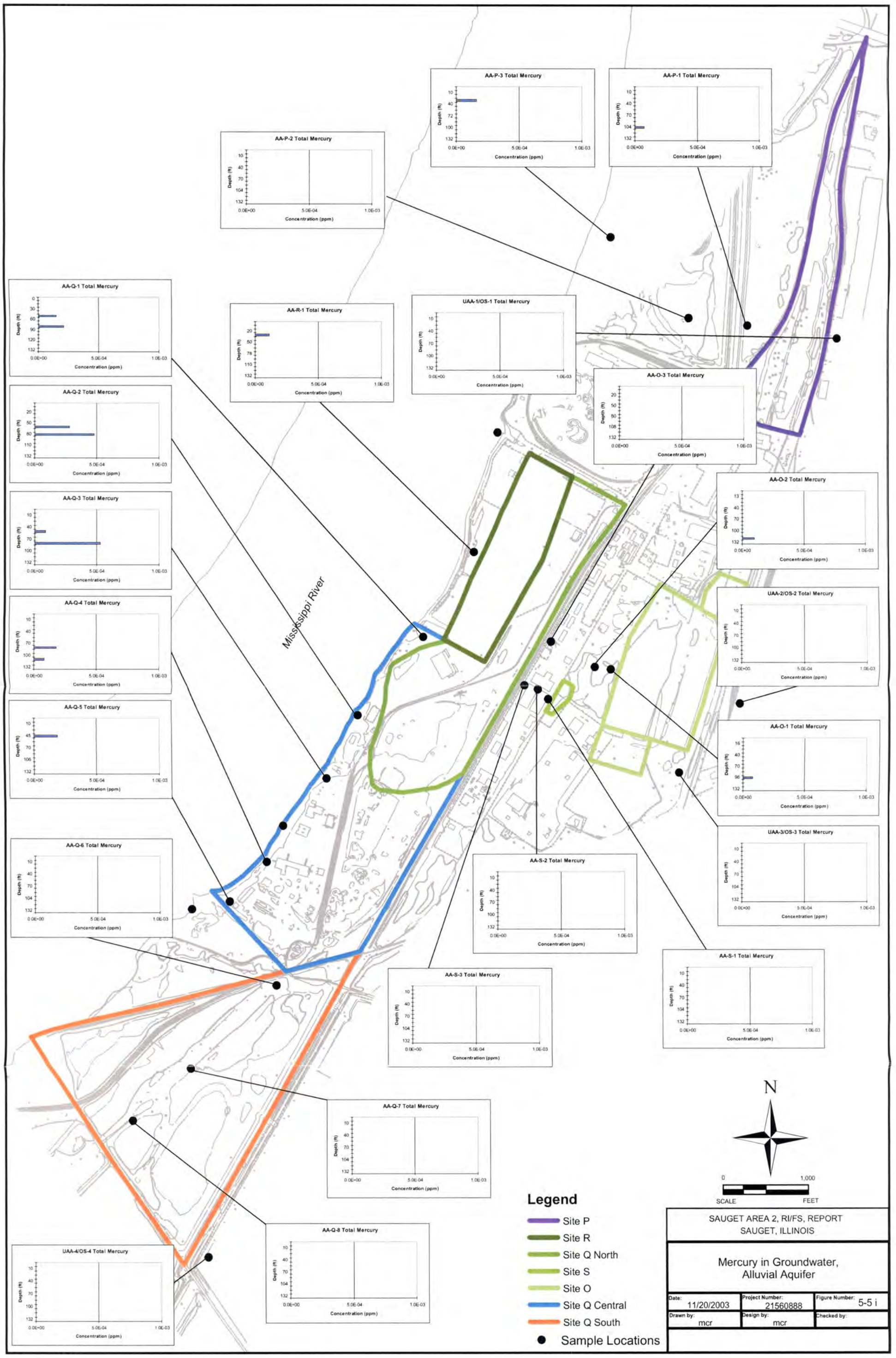
SAUGET AREA 2, RI/FS, REPORT
SAUGET, ILLINOIS

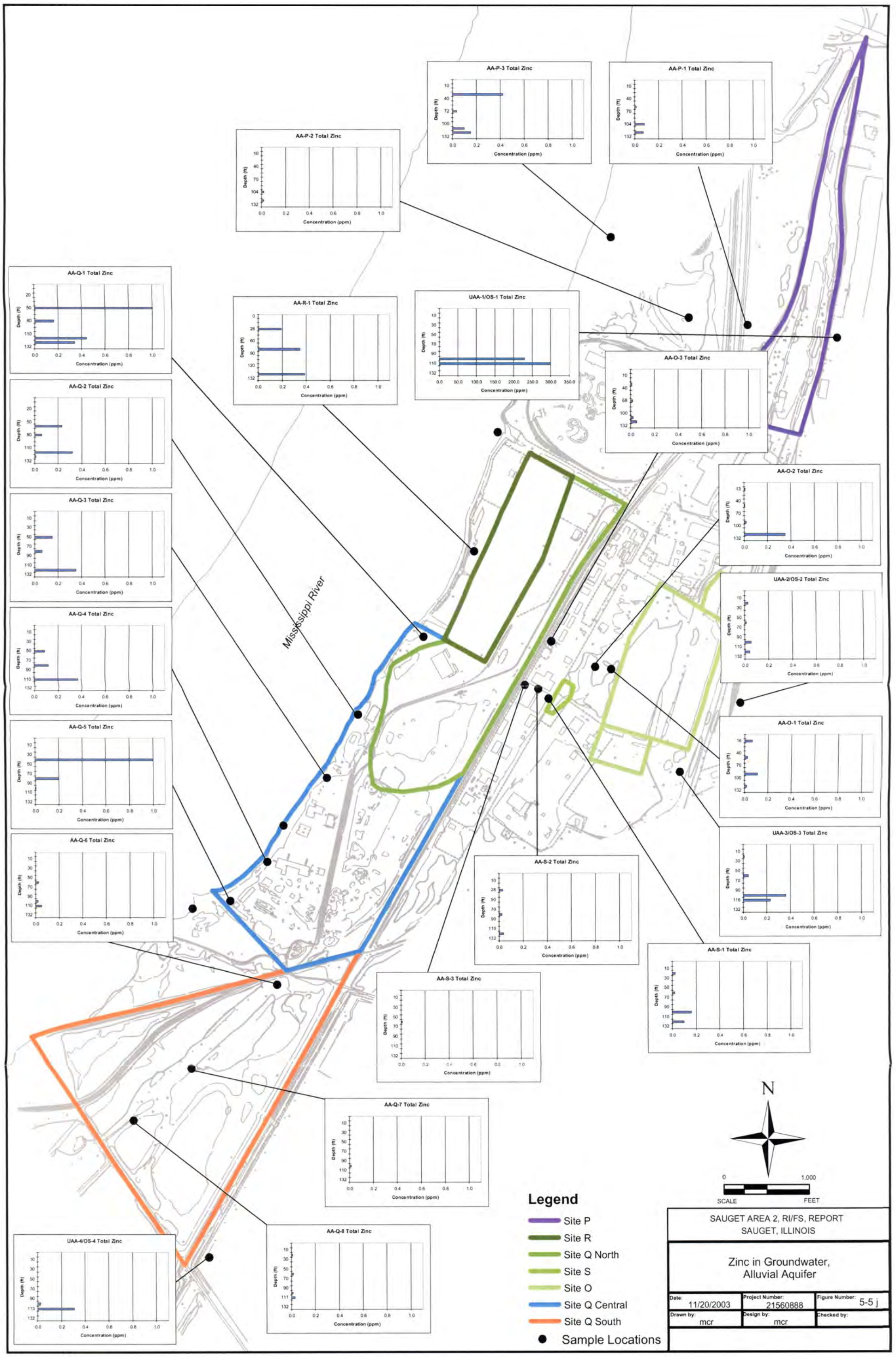
Total Dioxin TEQs in Groundwater, Alluvial Aquifer

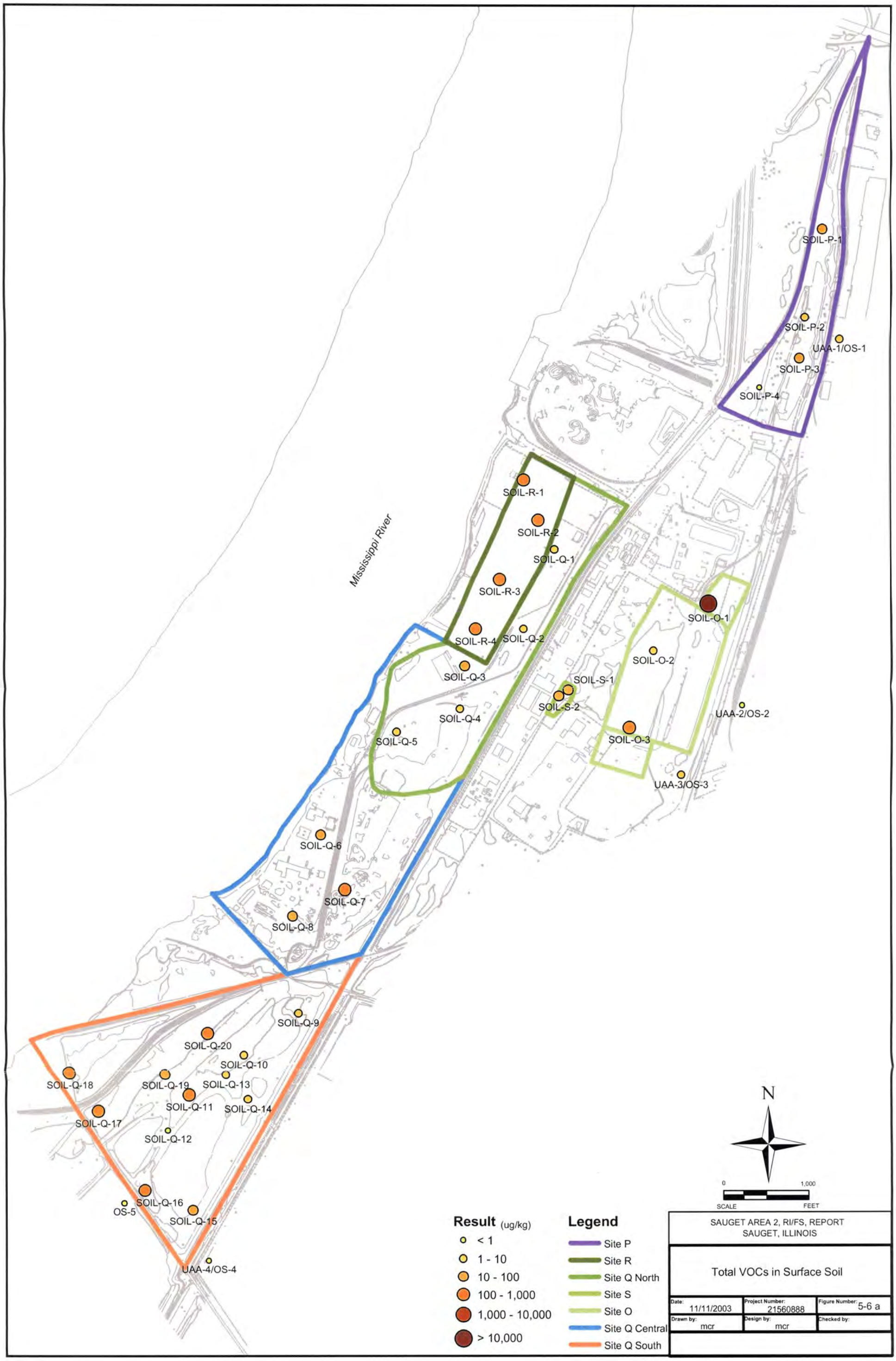
Date:	Project Number:	Figure Number:
11/20/2003	21560888	5-5 f
Drawn by: mcr	Design by: mcr	Checked by:

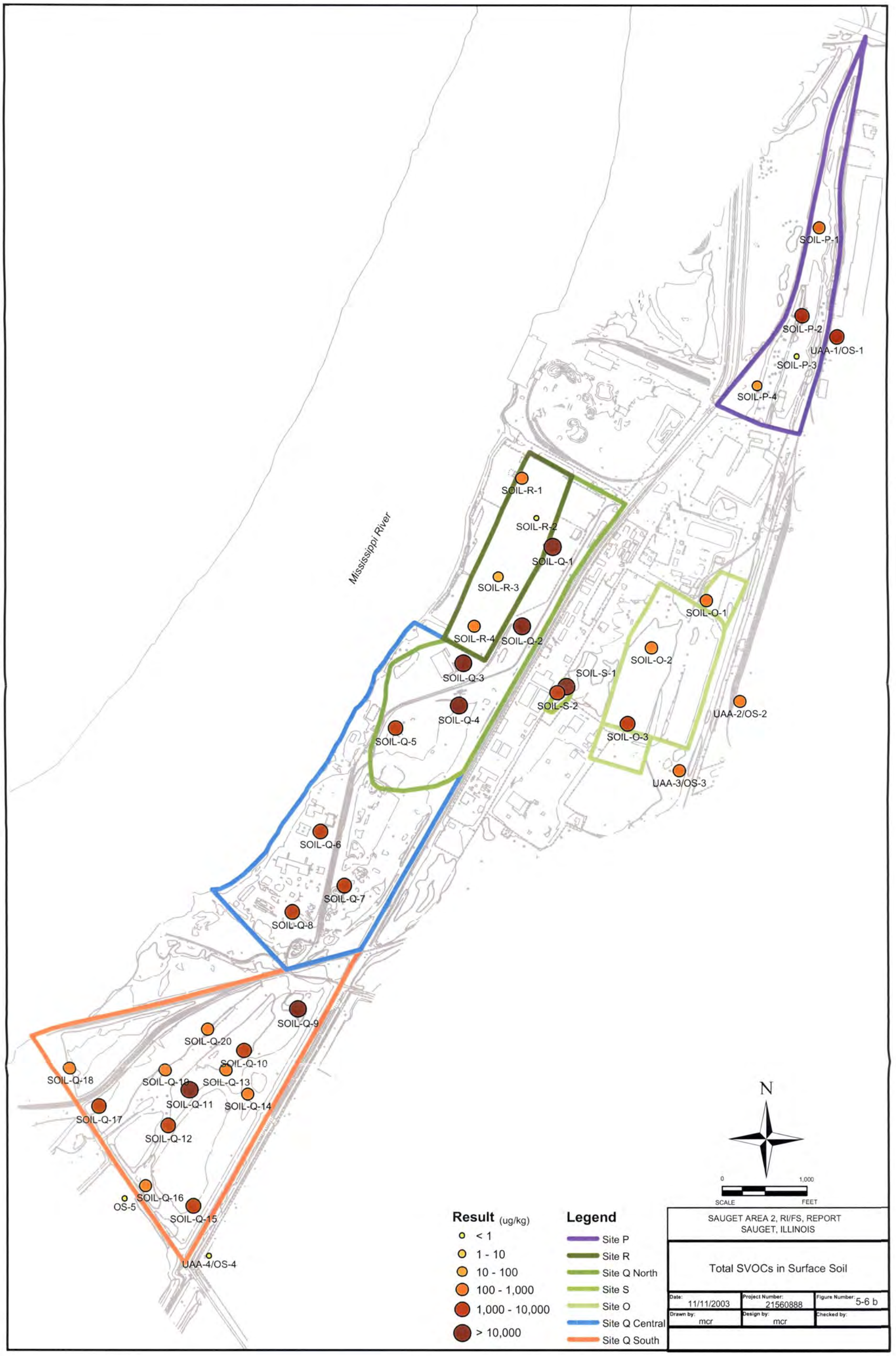

AA-P-3 Total Copper
AA-P-1 Total Copper
AA-P-2 Total Copper
AA-Q-1 Total Copper
AA-R-1 Total Copper
UAA-1/OS-1 Total Copper
AA-O-3 Total Copper
AA-O-2 Total Copper
AA-Q-2 Total Copper
AA-Q-3 Total Copper
Mississippi River
UAA-2/OS-2 Total Copper
AA-Q-4 Total Copper
AA-O-1 Total Copper
AA-Q-5 Total Copper
AA-S-2 Total Copper
UAA-3/OS-3 Total Copper
AA-Q-6 Total Copper
AA-S-3 Total Copper
AA-S-1 Total Copper
AA-Q-7 Total Copper
UAA-4/OS-4 Total Copper
AA-Q-8 Total Copper
Depth (ft)
Concentration (ppm)
N
0
1,000
SCALE
FEET
Legend
Site P
Site R
Site Q North
Site S
Site O
Site Q Central
Site Q South
Sample Locations
SAUGET AREA 2, RI/FS, REPORT
SAUGET, ILLINOIS
Copper in Groundwater,
Alluvial Aquifer
Date: 11/20/2003
Project Number: 21560888
Figure Number: 5-5 g
Drawn by: mcr
Design by: mcr
Checked by:


AA-P-3 Total Lead
AA-P-1 Total Lead
AA-P-2 Total Lead
AA-Q-1 Total Lead
AA-R-1 Total Lead
UAA-1/OS-1 Total Lead
AA-O-3 Total Lead
AA-O-2 Total Lead
AA-Q-2 Total Lead
AA-Q-3 Total Lead
UAA-2/OS-2 Total Lead
AA-Q-4 Total Lead
AA-O-1 Total Lead
AA-Q-5 Total Lead
UAA-3/OS-3 Total Lead
AA-Q-6 Total Lead
AA-S-2 Total Lead
AA-S-1 Total Lead
AA-S-3 Total Lead
AA-Q-7 Total Lead
UAA-4/OS-4 Total Lead
AA-Q-8 Total Lead
Depth (ft)
Concentration (ppm)
Mississippi River
N
0
1,000
SCALE
FEET
Legend
Site P
Site R
Site Q North
Site S
Site O
Site Q Central
Site Q South
Sample Locations
SAUGET AREA 2, RI/FS, REPORT
SAUGET, ILLINOIS
Lead in Groundwater,
Alluvial Aquifer
Date: 11/20/2003
Project Number: 21560888
Figure Number: 5-5 h
Drawn by: mcr
Design by: mcr
Checked by:


AA-P-3 Total Mercury
AA-P-1 Total Mercury
AA-P-2 Total Mercury
AA-Q-1 Total Mercury
AA-R-1 Total Mercury
UAA-1/OS-1 Total Mercury
AA-O-3 Total Mercury
AA-Q-2 Total Mercury
AA-O-2 Total Mercury
AA-Q-3 Total Mercury
UAA-2/OS-2 Total Mercury
AA-Q-4 Total Mercury
Mississippi River
AA-Q-5 Total Mercury
AA-O-1 Total Mercury
UAA-3/OS-3 Total Mercury
AA-Q-6 Total Mercury
AA-S-2 Total Mercury
AA-S-1 Total Mercury
AA-S-3 Total Mercury
AA-Q-7 Total Mercury
AA-Q-8 Total Mercury
UAA-4/OS-4 Total Mercury
Depth (ft)
Concentration (ppm)
0.0E+00
5.0E-04
1.0E-03
N
0
1,000
SCALE
FEET
Legend
Site P
Site R
Site Q North
Site S
Site O
Site Q Central
Site Q South
Sample Locations
SAUGET AREA 2, RI/FS, REPORT
SAUGET, ILLINOIS
Mercury in Groundwater,
Alluvial Aquifer
Date: 11/20/2003
Project Number: 21560888
Figure Number: 5-5 i
Drawn by: mcr
Design by: mcr
Checked by:


AA-P-3 Total Zinc
AA-P-1 Total Zinc
AA-P-2 Total Zinc
AA-Q-1 Total Zinc
AA-R-1 Total Zinc
UAA-1/OS-1 Total Zinc
AA-O-3 Total Zinc
AA-Q-2 Total Zinc
AA-O-2 Total Zinc
AA-Q-3 Total Zinc
UAA-2/OS-2 Total Zinc
Mississippi River
AA-Q-4 Total Zinc
AA-Q-5 Total Zinc
AA-O-1 Total Zinc
AA-Q-6 Total Zinc
UAA-3/OS-3 Total Zinc
AA-S-2 Total Zinc
AA-S-1 Total Zinc
AA-S-3 Total Zinc
AA-Q-7 Total Zinc
AA-Q-8 Total Zinc
UAA-4/OS-4 Total Zinc
Depth (ft)
Concentration (ppm)
N
0
1,000
SCALE
FEET
Legend
Site P
Site R
Site Q North
Site S
Site O
Site Q Central
Site Q South
Sample Locations
SAUGET AREA 2, RI/FS, REPORT
SAUGET, ILLINOIS
Zinc in Groundwater,
Alluvial Aquifer
Date: 11/20/2003
Project Number: 21560888
Figure Number: 5-5 j
Drawn by: mcr
Design by: mcr
Checked by:


SOIL-P-1
SOIL-P-2
UAA-1/OS-1
SOIL-P-3
SOIL-P-4
SOIL-R-1
SOIL-R-2
SOIL-Q-1
SOIL-R-3
SOIL-R-4
SOIL-Q-2
SOIL-Q-3
SOIL-Q-4
SOIL-Q-5
Mississippi River
SOIL-O-1
SOIL-O-2
SOIL-S-1
SOIL-S-2
SOIL-O-3
UAA-2/OS-2
UAA-3/OS-3
SOIL-Q-6
SOIL-Q-7
SOIL-Q-8
SOIL-Q-9
SOIL-Q-20
SOIL-Q-10
SOIL-Q-18
SOIL-Q-19
SOIL-Q-13
SOIL-Q-11
SOIL-Q-14
SOIL-Q-17
SOIL-Q-12
SOIL-Q-16
OS-5
SOIL-Q-15
UAA-4/OS-4
N
0
1,000
SCALE
FEET
Result (ug/kg)
< 1
1 - 10
10 - 100
100 - 1,000
1,000 - 10,000
> 10,000
Legend
Site P
Site R
Site Q North
Site S
Site O
Site Q Central
Site Q South
SAUGET AREA 2, RI/FS, REPORT
SAUGET, ILLINOIS
Total VOCs in Surface Soil
Date: 11/11/2003
Project Number: 21560888
Figure Number: 5-6 a
Drawn by: mcr
Design by: mcr
Checked by:


SOIL-P-1
SOIL-P-2
UAA-1/OS-1
SOIL-P-3
SOIL-P-4
SOIL-R-1
SOIL-R-2
SOIL-Q-1
SOIL-R-3
SOIL-R-4
SOIL-Q-2
SOIL-Q-3
SOIL-Q-4
SOIL-Q-5
SOIL-O-1
SOIL-O-2
SOIL-S-1
SOIL-S-2
UAA-2/OS-2
SOIL-O-3
UAA-3/OS-3
Mississippi River
SOIL-Q-6
SOIL-Q-7
SOIL-Q-8
SOIL-Q-9
SOIL-Q-20
SOIL-Q-10
SOIL-Q-18
SOIL-Q-19
SOIL-Q-13
SOIL-Q-11
SOIL-Q-14
SOIL-Q-17
SOIL-Q-12
SOIL-Q-16
OS-5
SOIL-Q-15
UAA-4/OS-4
N
0
1,000
SCALE
FEET
Result (ug/kg)
< 1
1 - 10
10 - 100
100 - 1,000
1,000 - 10,000
> 10,000
Legend
Site P
Site R
Site Q North
Site S
Site O
Site Q Central
Site Q South
SAUGET AREA 2, RI/FS, REPORT
SAUGET, ILLINOIS
Total SVOCs in Surface Soil
Date: 11/11/2003
Project Number: 21560888
Figure Number: 5-6 b
Drawn by: mcr
Design by: mcr
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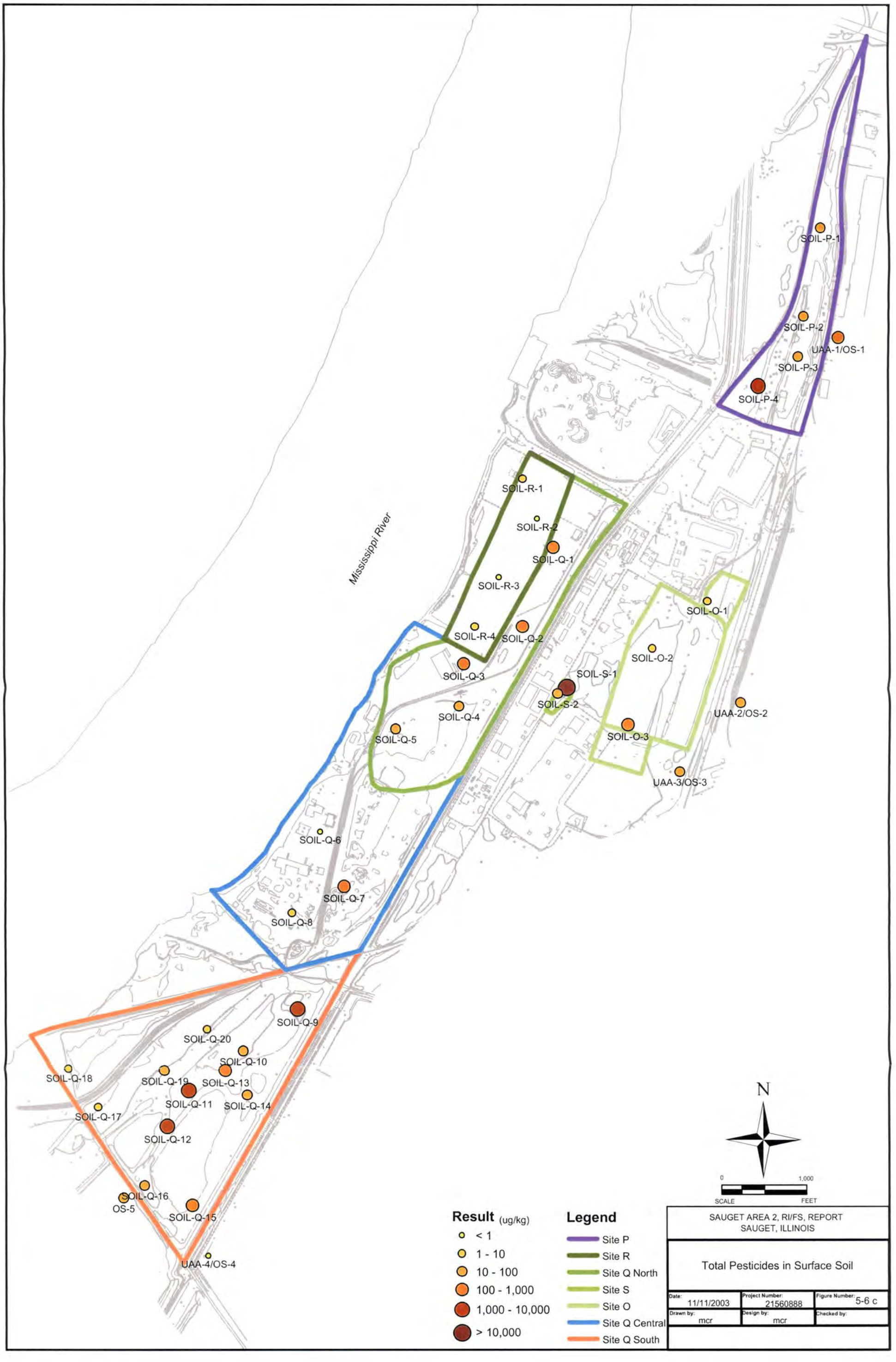
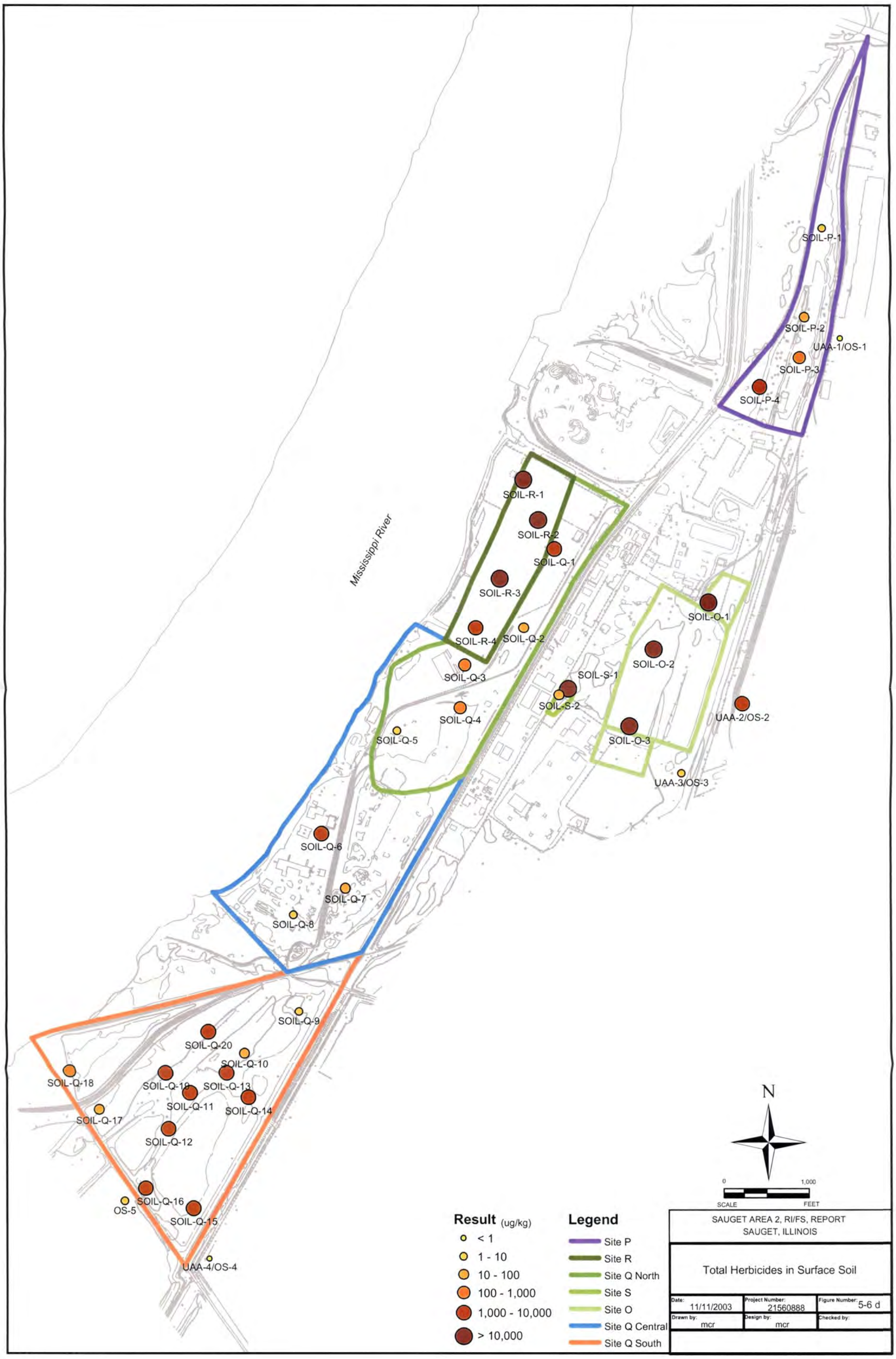
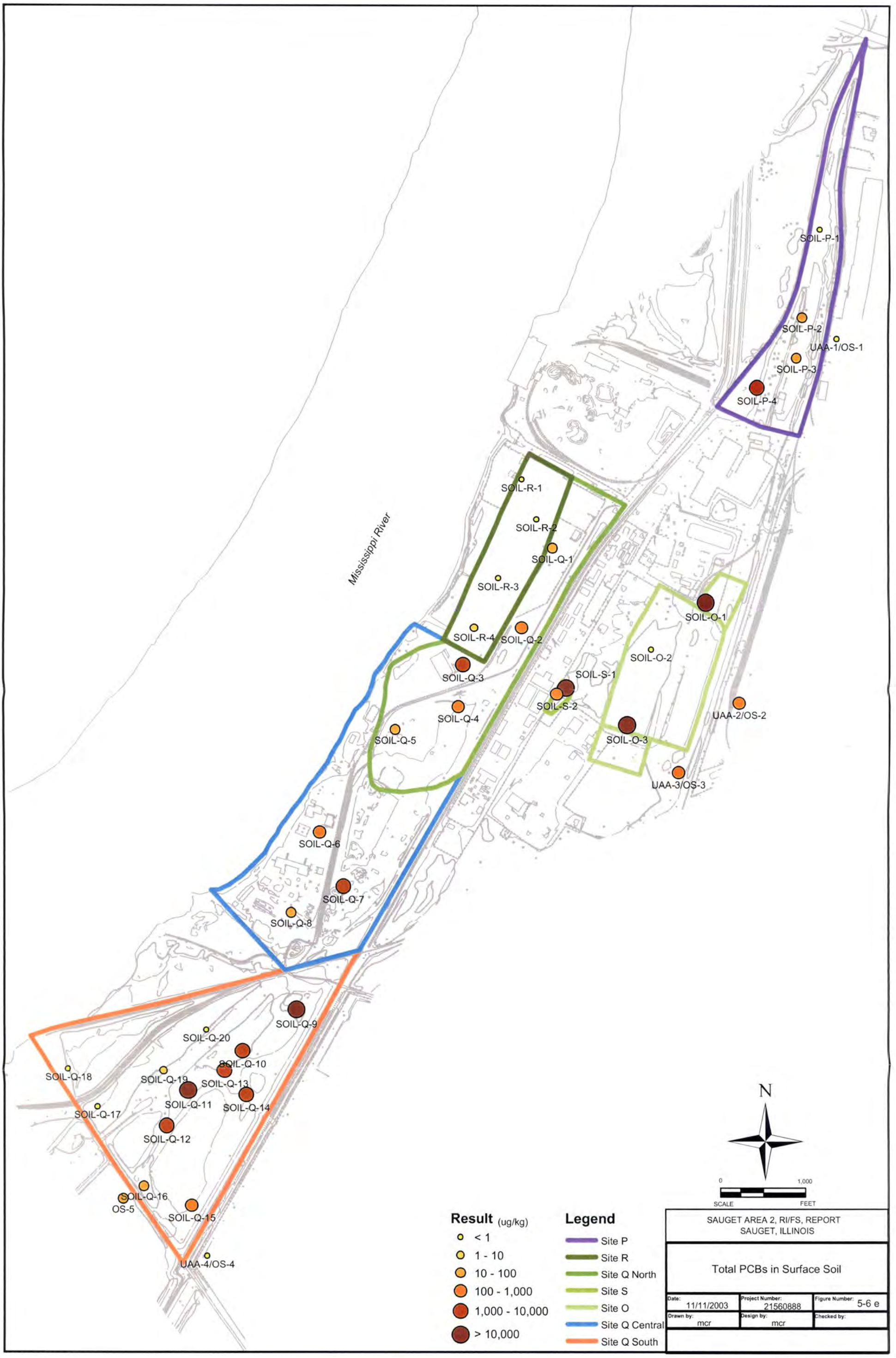


SAUGET AREA 2, RI/FS, REPORT
SAUGET, ILLINOIS

Total Pesticides in Surface Soil

Date:	Project Number:	Figure Number:
11/11/2003	21560888	5-6 c
Drawn by: mcr	Design by: mcr	Checked by:


SOIL-P-1
SOIL-P-2
UAA-1/OS-1
SOIL-P-3
SOIL-P-4
SOIL-R-1
SOIL-R-2
SOIL-Q-1
SOIL-R-3
SOIL-R-4
SOIL-Q-2
SOIL-Q-3
SOIL-Q-4
SOIL-Q-5
SOIL-O-1
SOIL-O-2
SOIL-S-1
SOIL-S-2
SOIL-O-3
UAA-2/OS-2
UAA-3/OS-3
Mississippi River
SOIL-Q-6
SOIL-Q-7
SOIL-Q-8
SOIL-Q-9
SOIL-Q-20
SOIL-Q-10
SOIL-Q-18
SOIL-Q-19
SOIL-Q-13
SOIL-Q-11
SOIL-Q-14
SOIL-Q-17
SOIL-Q-12
SOIL-Q-16
OS-5
SOIL-Q-15
UAA-4/OS-4
N
0
1,000
SCALE
FEET
Result (ug/kg)
< 1
1 - 10
10 - 100
100 - 1,000
1,000 - 10,000
> 10,000
Legend
Site P
Site R
Site Q North
Site S
Site O
Site Q Central
Site Q South
SAUGET AREA 2, RI/FS, REPORT
SAUGET, ILLINOIS
Total Herbicides in Surface Soil
Date: 11/11/2003
Project Number: 21560888
Figure Number: 5-6 d
Drawn by: mcr
Design by: mcr
Checked by:

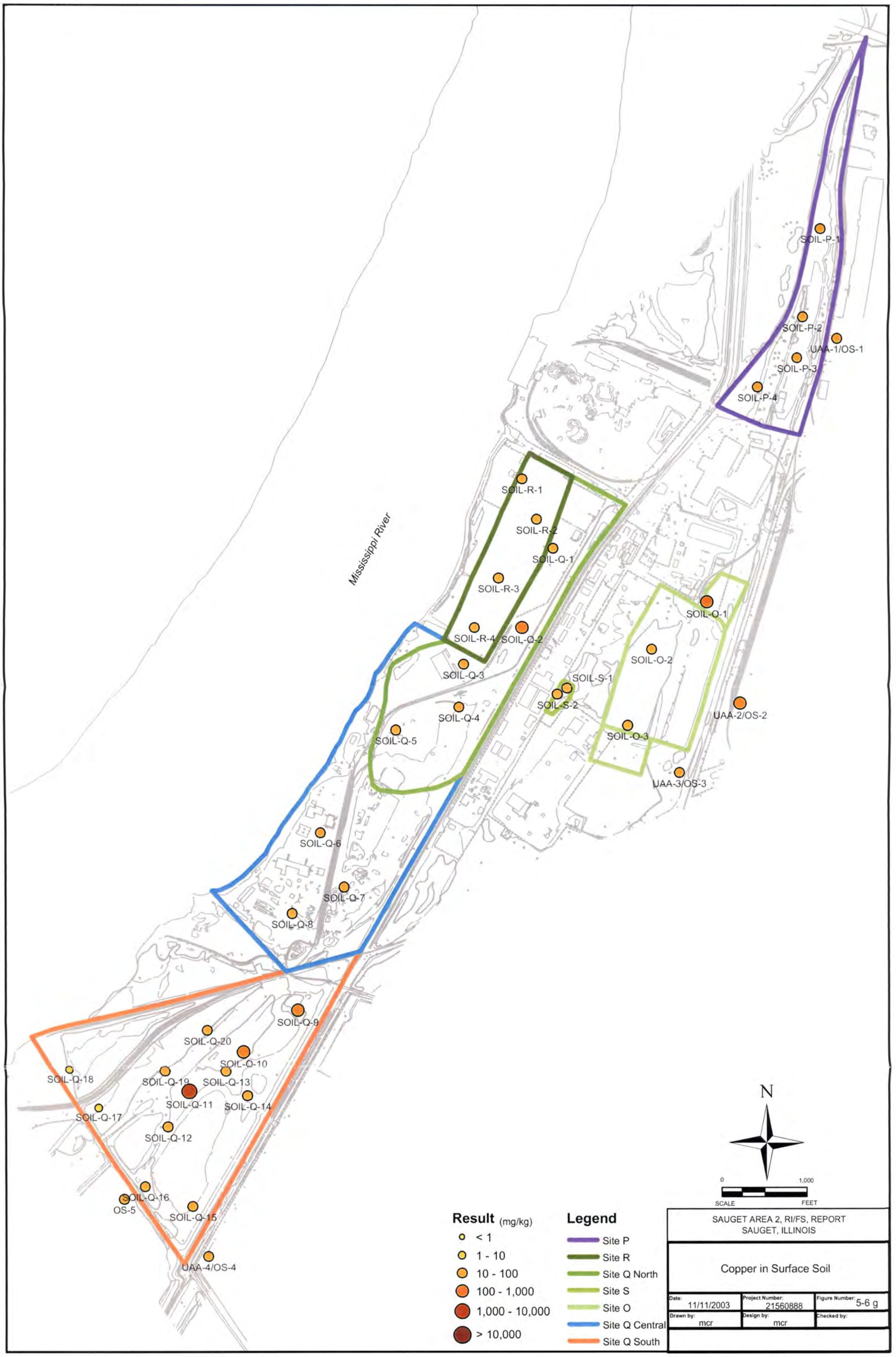


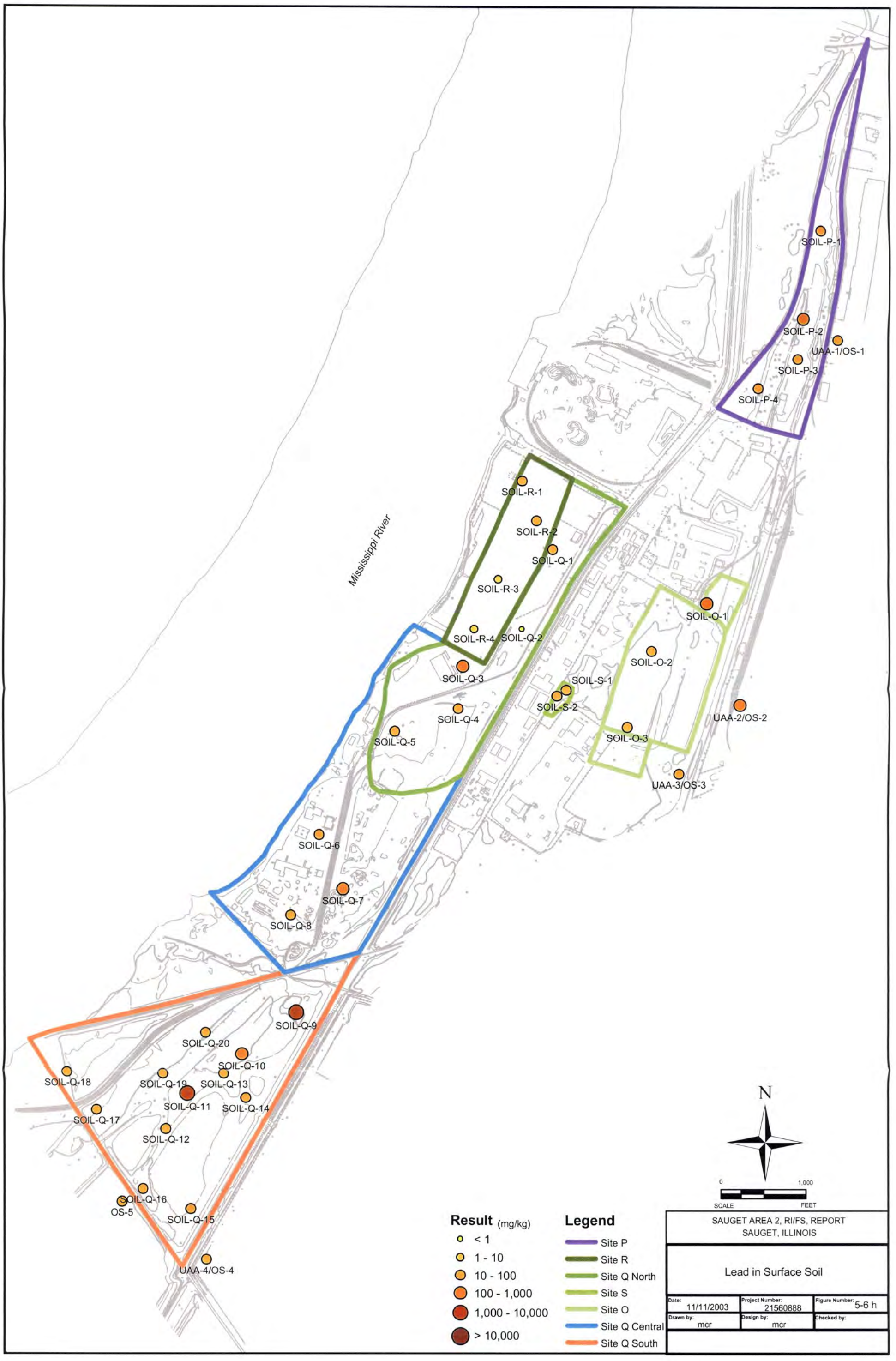
SAUGET AREA 2, RI/FS, REPORT
SAUGET, ILLINOIS

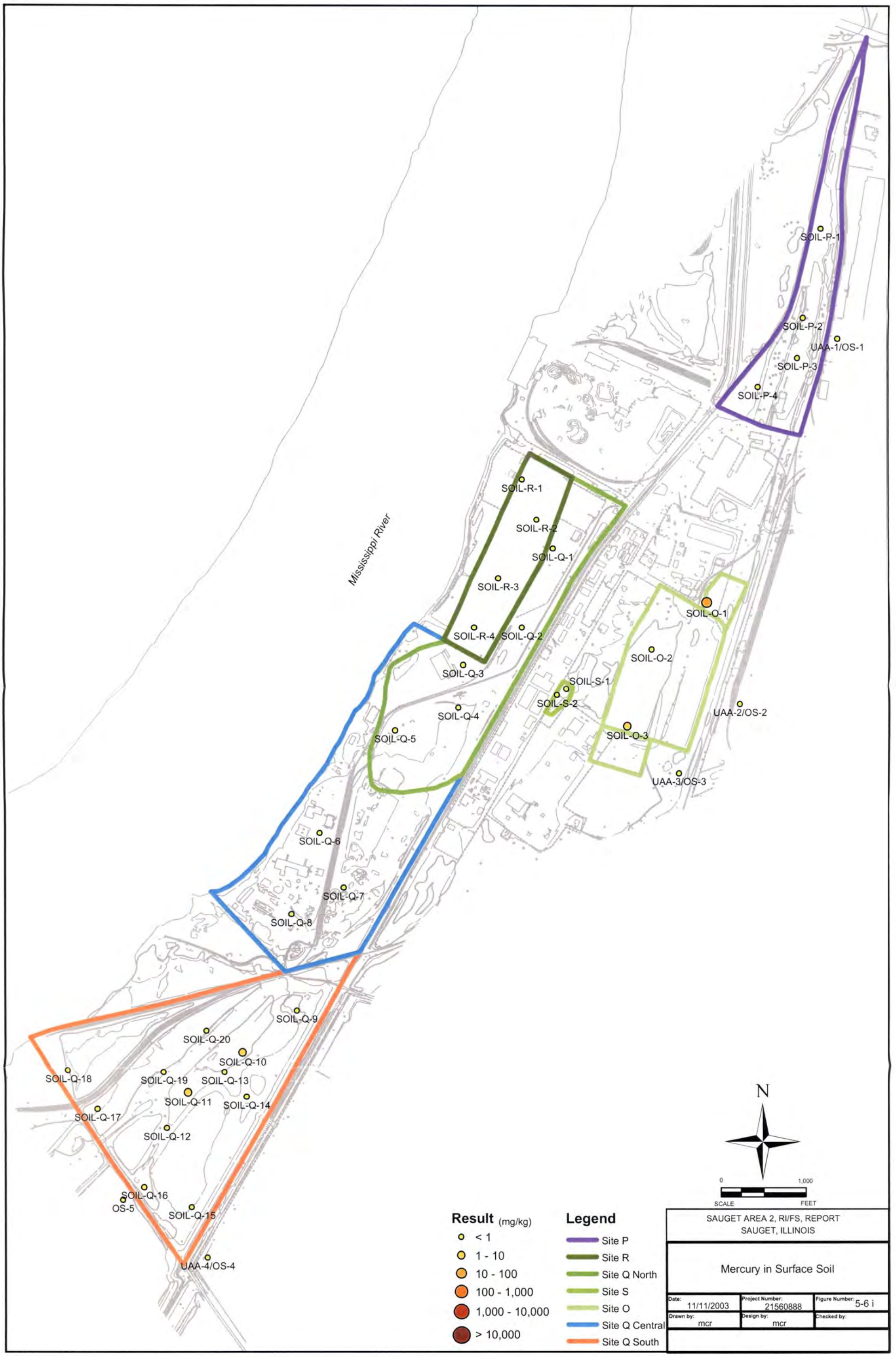
Total PCBs in Surface Soil

Date:	Project Number:	Figure Number:
11/11/2003	21560888	5-6 e
Drawn by: mcr	Design by: mcr	Checked by:

SOIL-P-1
SOIL-P-2
UAA-1/OS-1
SOIL-P-3
SOIL-P-4
SOIL-R-1
SOIL-R-2
SOIL-Q-1
SOIL-R-3
SOIL-R-4
SOIL-Q-2
SOIL-Q-3
SOIL-Q-4
SOIL-Q-5
Mississippi River
SOIL-O-1
SOIL-O-2
SOIL-S-1
SOIL-S-2
SOIL-O-3
UAA-2/OS-2
UAA-3/OS-3
SOIL-Q-6
SOIL-Q-7
SOIL-Q-8
SOIL-Q-9
SOIL-Q-20
SOIL-Q-10
SOIL-Q-18
SOIL-Q-19
SOIL-Q-13
SOIL-Q-11
SOIL-Q-14
SOIL-Q-17
SOIL-Q-12
SOIL-Q-16
OS-5
SOIL-Q-15
UAA-4/OS-4
N
0
1,000
SCALE
FEET
Result (ug/kg)
< 1
1 - 10
10 - 100
100 - 1,000
1,000 - 10,000
> 10,000
Legend
Site P
Site R
Site Q North
Site S
Site O
Site Q Central
Site Q South
SAUGET AREA 2, RI/FS, REPORT
SAUGET, ILLINOIS
Total Dioxin TEQs in Surface Soil
Date: 11/11/2003
Project Number: 21560888
Figure Number: 5-6 f
Drawn by: mcr
Design by: mcr
Checked by:


SOIL-P-1
SOIL-P-2
UAA-1/OS-1
SOIL-P-3
SOIL-P-4
SOIL-R-1
SOIL-R-2
SOIL-Q-1
SOIL-R-3
SOIL-R-4
SOIL-Q-2
SOIL-Q-3
SOIL-Q-4
SOIL-Q-5
SOIL-S-1
SOIL-S-2
SOIL-O-1
SOIL-O-2
SOIL-O-3
UAA-2/OS-2
UAA-3/OS-3
Mississippi River
SOIL-Q-6
SOIL-Q-7
SOIL-Q-8
SOIL-Q-9
SOIL-Q-20
SOIL-Q-10
SOIL-Q-18
SOIL-Q-19
SOIL-Q-13
SOIL-Q-11
SOIL-Q-14
SOIL-Q-17
SOIL-Q-12
SOIL-Q-16
OS-5
SOIL-Q-15
UAA-4/OS-4
N
0
1,000
SCALE
FEET
Result (mg/kg)
< 1
1 - 10
10 - 100
100 - 1,000
1,000 - 10,000
> 10,000
Legend
Site P
Site R
Site Q North
Site S
Site O
Site Q Central
Site Q South
SAUGET AREA 2, RI/FS, REPORT
SAUGET, ILLINOIS
Copper in Surface Soil
Date: 11/11/2003
Project Number: 21560888
Figure Number: 5-6 g
Drawn by: mcr
Design by: mcr
Checked by:

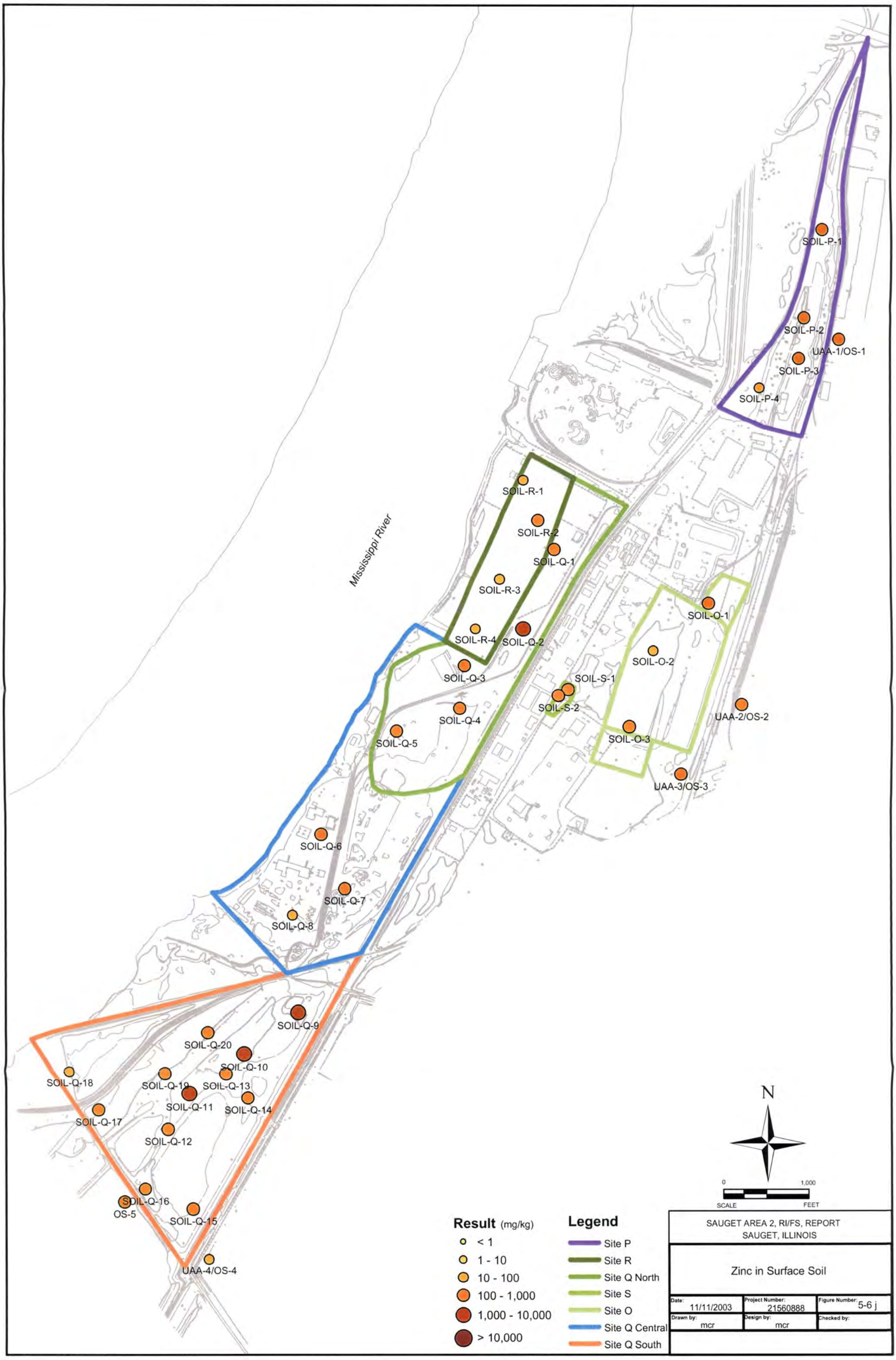

SOIL-P-1
SOIL-P-2
UAA-1/OS-1
SOIL-P-3
SOIL-P-4
SOIL-R-1
SOIL-R-2
SOIL-Q-1
SOIL-R-3
Mississippi River
SOIL-R-4
SOIL-Q-2
SOIL-Q-3
SOIL-Q-4
SOIL-Q-5
SOIL-S-1
SOIL-S-2
SOIL-O-1
SOIL-O-2
SOIL-O-3
UAA-2/OS-2
UAA-3/OS-3
SOIL-Q-6
SOIL-Q-7
SOIL-Q-8
SOIL-Q-9
SOIL-Q-20
SOIL-Q-10
SOIL-Q-18
SOIL-Q-19
SOIL-Q-13
SOIL-Q-11
SOIL-Q-14
SOIL-Q-17
SOIL-Q-12
SOIL-Q-16
OS-5
SOIL-Q-15
UAA-4/OS-4
N
0
1,000
SCALE
FEET
Result (mg/kg)
< 1
1 - 10
10 - 100
100 - 1,000
1,000 - 10,000
> 10,000
Legend
Site P
Site R
Site Q North
Site S
Site O
Site Q Central
Site Q South
SAUGET AREA 2, RI/FS, REPORT
SAUGET, ILLINOIS
Lead in Surface Soil
Date: 11/11/2003
Project Number: 21560888
Figure Number: 5-6 h
Drawn by: mcr
Design by: mcr
Checked by:

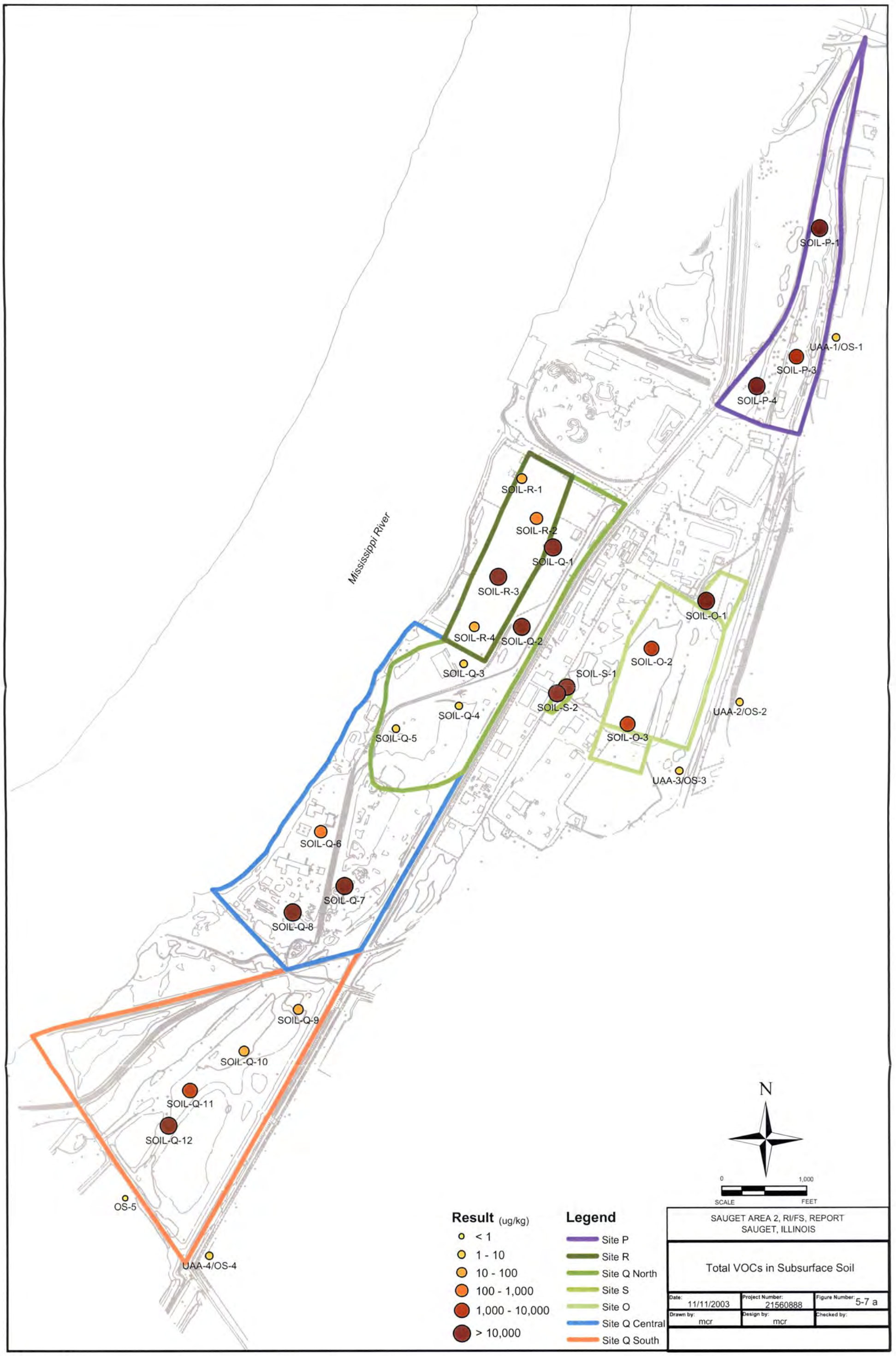


SAUGET AREA 2, RI/FS, REPORT
SAUGET, ILLINOIS

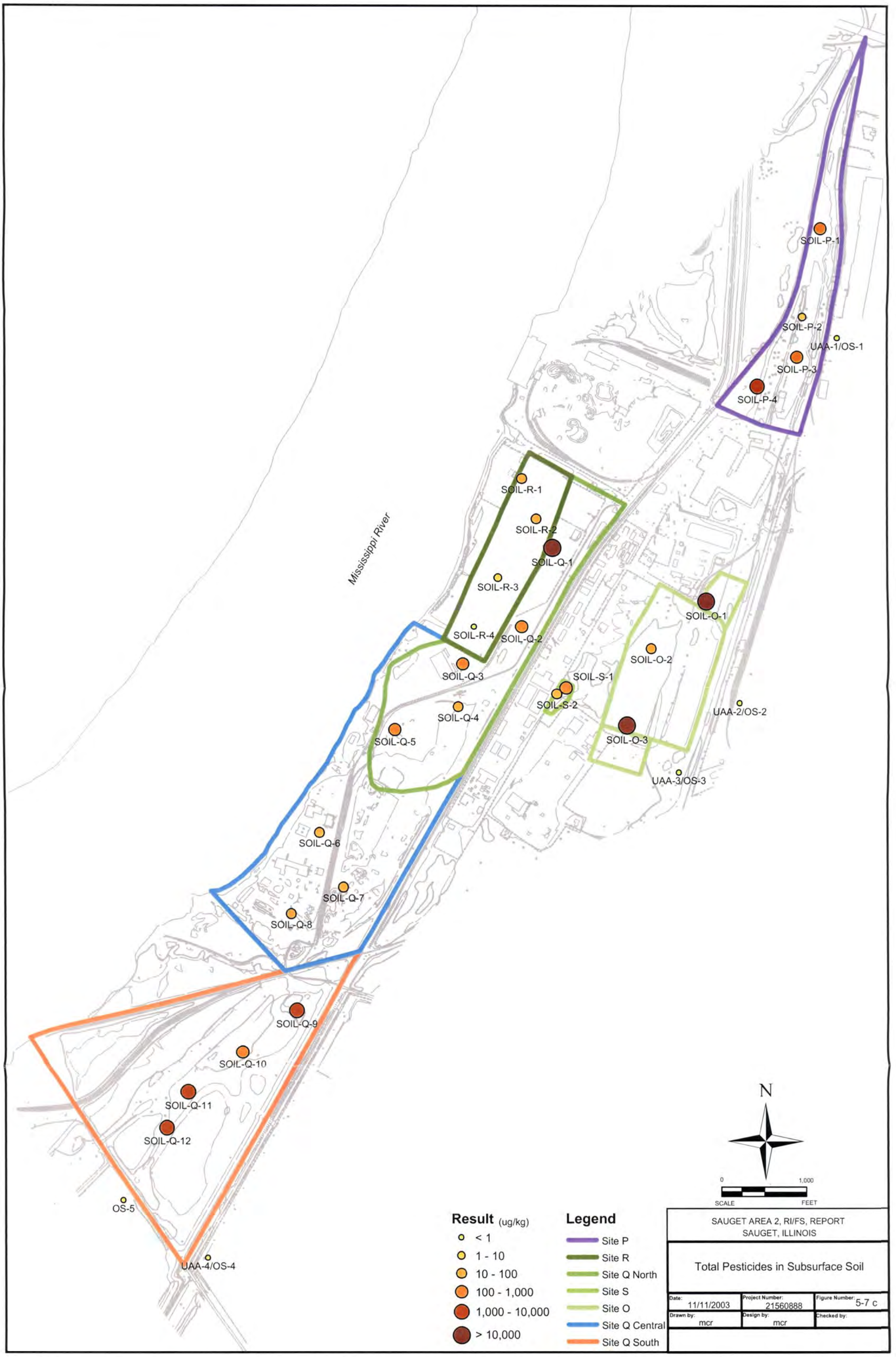
Mercury in Surface Soil

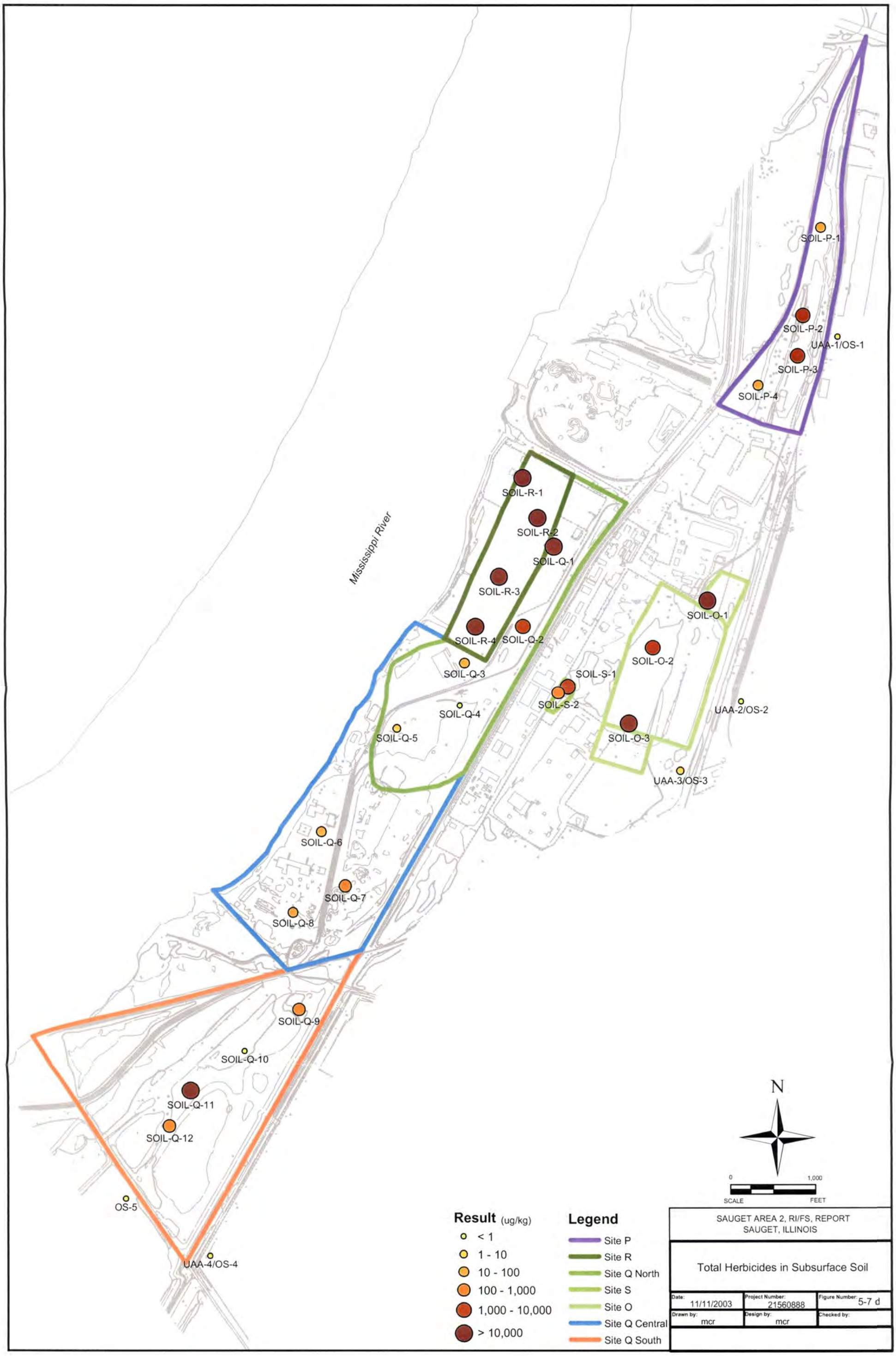
Date:	Project Number:	Figure Number:
11/11/2003	21560888	5-6 i
Drawn by: mcr	Design by: mcr	Checked by:

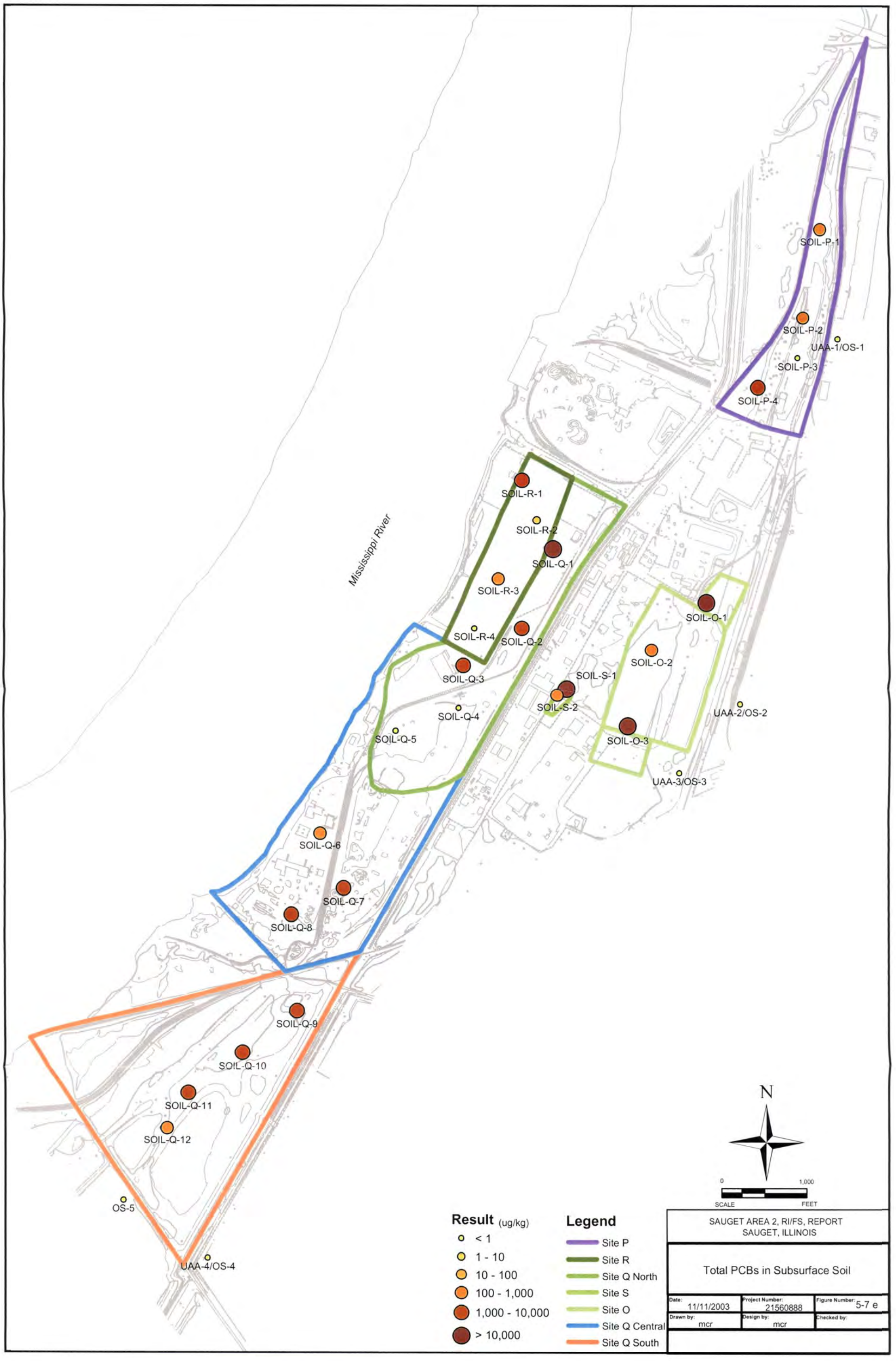

SOIL-P-1
SOIL-P-2
UAA-1/OS-1
SOIL-P-3
SOIL-P-4
SOIL-R-1
SOIL-R-2
SOIL-Q-1
SOIL-R-3
SOIL-R-4
SOIL-Q-2
Mississippi River
SOIL-O-1
SOIL-O-2
SOIL-Q-3
SOIL-S-1
SOIL-S-2
SOIL-Q-4
UAA-2/OS-2
SOIL-Q-5
SOIL-O-3
UAA-3/OS-3
SOIL-Q-6
SOIL-Q-7
SOIL-Q-8
SOIL-Q-9
SOIL-Q-20
SOIL-Q-10
SOIL-Q-18
SOIL-Q-19
SOIL-Q-13
SOIL-Q-11
SOIL-Q-14
SOIL-Q-17
SOIL-Q-12
SOIL-Q-16
OS-5
SOIL-Q-15
UAA-4/OS-4
N
0
1,000
SCALE
FEET
Result (mg/kg)
< 1
1 - 10
10 - 100
100 - 1,000
1,000 - 10,000
> 10,000
Legend
Site P
Site R
Site Q North
Site S
Site O
Site Q Central
Site Q South
SAUGET AREA 2, RI/FS, REPORT
SAUGET, ILLINOIS
Zinc in Surface Soil
Date: 11/11/2003
Project Number: 21560888
Figure Number: 5-6 j
Drawn by: mcr
Design by: mcr
Checked by:

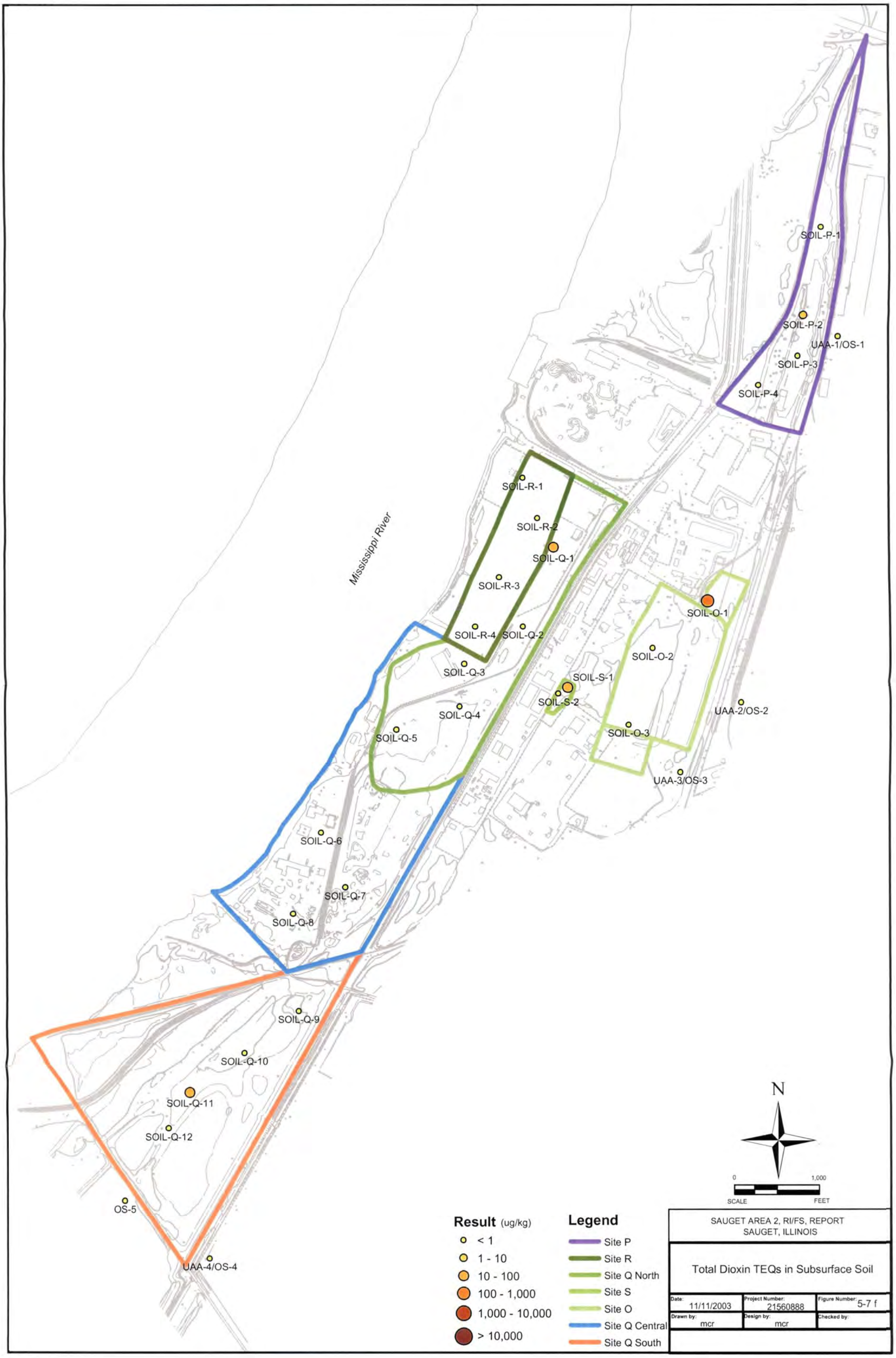

SOIL-P-1
UAA-1/OS-1
SOIL-P-3
SOIL-P-4
SOIL-R-1
SOIL-R-2
SOIL-Q-1
Mississippi River
SOIL-R-3
SOIL-O-1
SOIL-R-4
SOIL-Q-2
SOIL-O-2
SOIL-Q-3
SOIL-S-1
SOIL-S-2
UAA-2/OS-2
SOIL-Q-4
SOIL-Q-5
SOIL-O-3
UAA-3/OS-3
SOIL-Q-6
SOIL-Q-7
SOIL-Q-8
SOIL-Q-9
SOIL-Q-10
SOIL-Q-11
SOIL-Q-12
OS-5
UAA-4/OS-4
N
0
1,000
SCALE
FEET
Result (ug/kg)
< 1
1 - 10
10 - 100
100 - 1,000
1,000 - 10,000
> 10,000
Legend
Site P
Site R
Site Q North
Site S
Site O
Site Q Central
Site Q South
SAUGET AREA 2, RI/FS, REPORT
SAUGET, ILLINOIS
Total VOCs in Subsurface Soil
Date: 11/11/2003
Project Number: 21560888
Figure Number: 5-7 a
Drawn by: mcr
Design by: mcr
Checked by:

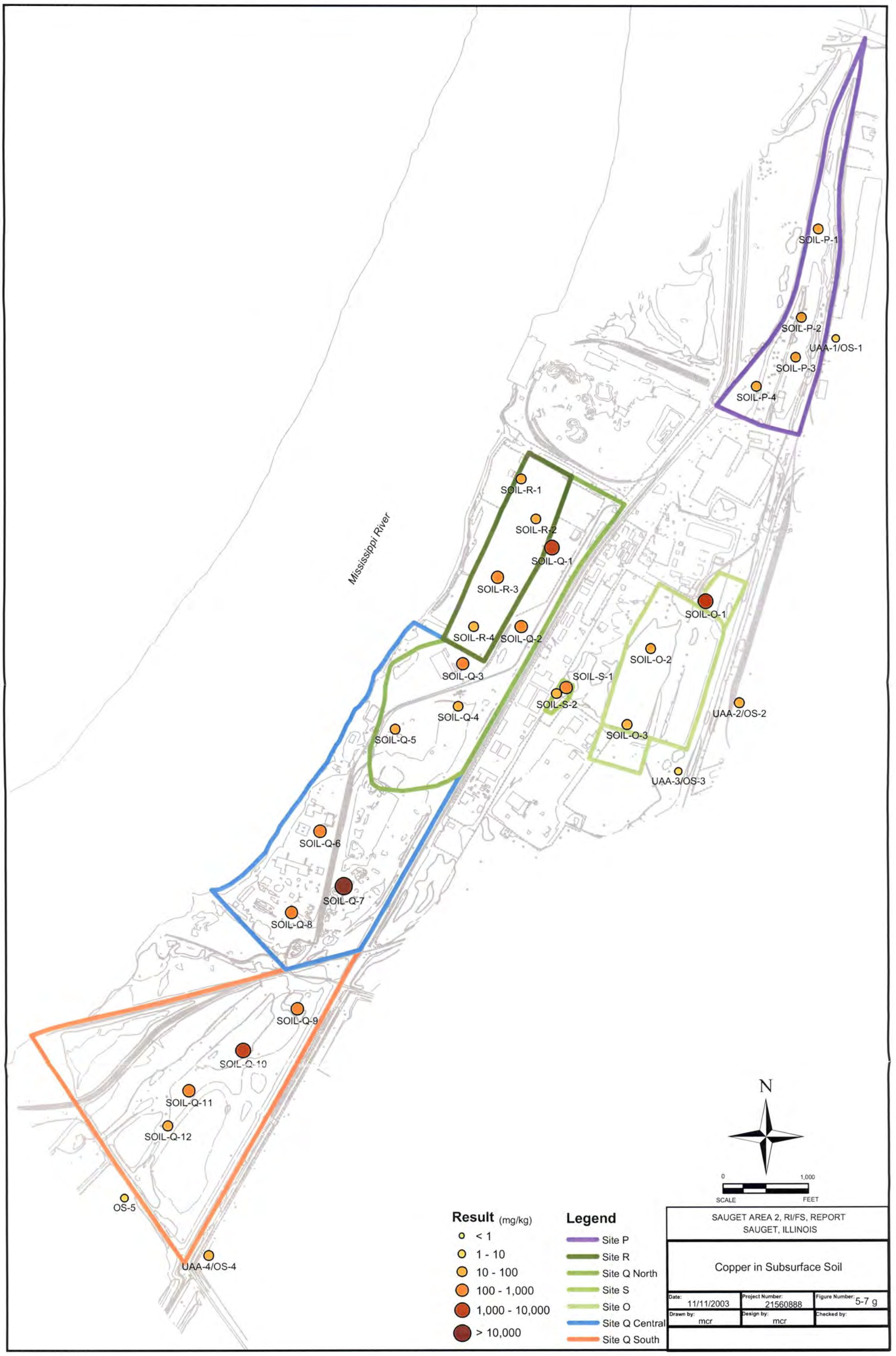
SOIL-P-1
SOIL-P-2
UAA-1/OS-1
SOIL-P-3
SOIL-P-4
SOIL-R-1
SOIL-R-2
SOIL-Q-1
SOIL-R-3
SOIL-R-4
SOIL-Q-2
SOIL-Q-3
SOIL-Q-4
SOIL-Q-5
SOIL-O-1
SOIL-O-2
SOIL-S-1
SOIL-S-2
SOIL-O-3
UAA-2/OS-2
UAA-3/OS-3
Mississippi River
SOIL-Q-6
SOIL-Q-7
SOIL-Q-8
SOIL-Q-9
SOIL-Q-10
SOIL-Q-11
SOIL-Q-12
OS-5
UAA-4/OS-4
N
0
1,000
SCALE
FEET
Result (ug/kg)
< 1
1 - 10
10 - 100
100 - 1,000
1,000 - 10,000
> 10,000
Legend
Site P
Site R
Site Q North
Site S
Site O
Site Q Central
Site Q South
SAUGET AREA 2, RI/FS, REPORT
SAUGET, ILLINOIS
Total SVOCs in Subsurface Soil
Date: 11/11/2003
Project Number: 21560888
Figure Number: 5-7 b
Drawn by: mcr
Design by: mcr
Checked by:


SOIL-P-1
SOIL-P-2
UAA-1/OS-1
SOIL-P-3
SOIL-P-4
SOIL-R-1
SOIL-R-2
SOIL-Q-1
SOIL-R-3
SOIL-R-4
SOIL-Q-2
SOIL-Q-3
SOIL-Q-4
SOIL-Q-5
SOIL-O-1
SOIL-O-2
SOIL-S-1
SOIL-S-2
UAA-2/OS-2
SOIL-O-3
UAA-3/OS-3
Mississippi River
SOIL-Q-6
SOIL-Q-7
SOIL-Q-8
SOIL-Q-9
SOIL-Q-10
SOIL-Q-11
SOIL-Q-12
OS-5
UAA-4/OS-4
N
0
1,000
SCALE
FEET
Result (ug/kg)
< 1
1 - 10
10 - 100
100 - 1,000
1,000 - 10,000
> 10,000
Legend
Site P
Site R
Site Q North
Site S
Site O
Site Q Central
Site Q South
SAUGET AREA 2, RI/FS, REPORT
SAUGET, ILLINOIS
Total Pesticides in Subsurface Soil
Date: 11/11/2003
Project Number: 21560888
Figure Number: 5-7 c
Drawn by: mcr
Design by: mcr
Checked by:


SOIL-P-1
SOIL-P-2
UAA-1/OS-1
SOIL-P-3
SOIL-P-4
SOIL-R-1
SOIL-R-2
SOIL-Q-1
Mississippi River
SOIL-R-3
SOIL-R-4
SOIL-Q-2
SOIL-O-1
SOIL-O-2
SOIL-Q-3
SOIL-S-1
SOIL-S-2
SOIL-Q-4
UAA-2/OS-2
SOIL-Q-5
SOIL-O-3
UAA-3/OS-3
SOIL-Q-6
SOIL-Q-7
SOIL-Q-8
SOIL-Q-9
SOIL-Q-10
SOIL-Q-11
SOIL-Q-12
OS-5
UAA-4/OS-4
N
0
1,000
SCALE
FEET
Result (ug/kg)
< 1
1 - 10
10 - 100
100 - 1,000
1,000 - 10,000
> 10,000
Legend
Site P
Site R
Site Q North
Site S
Site O
Site Q Central
Site Q South
SAUGET AREA 2, RI/FS, REPORT
SAUGET, ILLINOIS
Total Herbicides in Subsurface Soil
Date: 11/11/2003
Project Number: 21560888
Figure Number: 5-7 d
Drawn by: mcr
Design by: mcr
Checked by:


SOIL-P-1
SOIL-P-2
UAA-1/OS-1
SOIL-P-3
SOIL-P-4
SOIL-R-1
SOIL-R-2
SOIL-Q-1
Mississippi River
SOIL-R-3
SOIL-O-1
SOIL-R-4
SOIL-Q-2
SOIL-O-2
SOIL-Q-3
SOIL-S-1
SOIL-S-2
UAA-2/OS-2
SOIL-Q-4
SOIL-Q-5
SOIL-O-3
UAA-3/OS-3
SOIL-Q-6
SOIL-Q-7
SOIL-Q-8
SOIL-Q-9
SOIL-Q-10
SOIL-Q-11
SOIL-Q-12
OS-5
UAA-4/OS-4
N
0
1,000
SCALE
FEET
Result (ug/kg)
< 1
1 - 10
10 - 100
100 - 1,000
1,000 - 10,000
> 10,000
Legend
Site P
Site R
Site Q North
Site S
Site O
Site Q Central
Site Q South
SAUGET AREA 2, RI/FS, REPORT
SAUGET, ILLINOIS
Total PCBs in Subsurface Soil
Date: 11/11/2003
Project Number: 21560888
Figure Number: 5-7 e
Drawn by: mcr
Design by: mcr
Checked by:

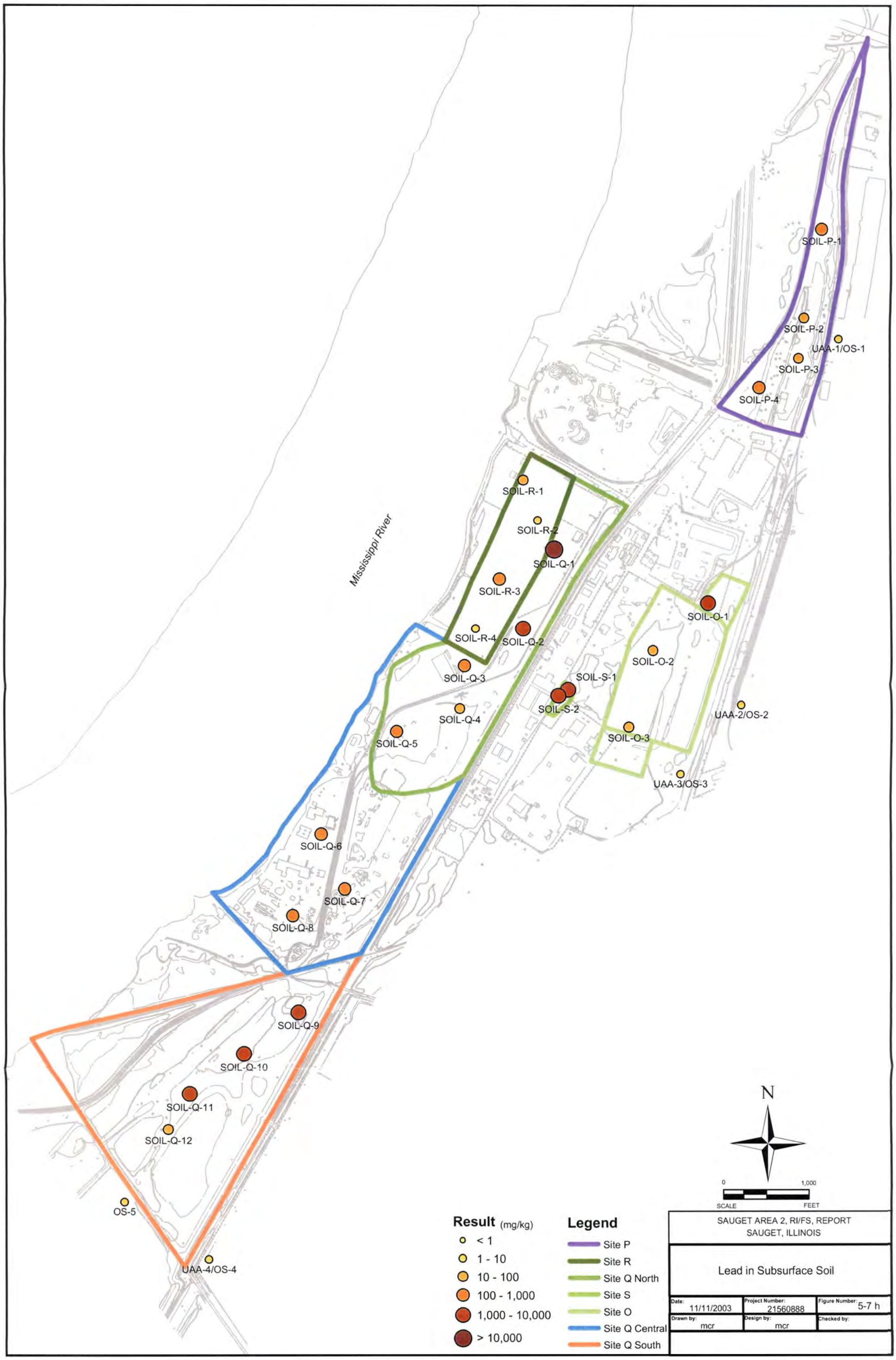

SOIL-P-1
SOIL-P-2
UAA-1/OS-1
SOIL-P-3
SOIL-P-4
SOIL-R-1
SOIL-R-2
SOIL-Q-1
SOIL-R-3
SOIL-R-4
SOIL-Q-2
SOIL-Q-3
SOIL-Q-4
SOIL-Q-5
SOIL-O-1
SOIL-O-2
SOIL-S-1
SOIL-S-2
UAA-2/OS-2
SOIL-O-3
UAA-3/OS-3
Mississippi River
SOIL-Q-6
SOIL-Q-7
SOIL-Q-8
SOIL-Q-9
SOIL-Q-10
SOIL-Q-11
SOIL-Q-12
OS-5
UAA-4/OS-4
N
0
1,000
SCALE
FEET
Result (ug/kg)
< 1
1 - 10
10 - 100
100 - 1,000
1,000 - 10,000
> 10,000
Legend
Site P
Site R
Site Q North
Site S
Site O
Site Q Central
Site Q South
SAUGET AREA 2, RI/FS, REPORT
SAUGET, ILLINOIS
Total Dioxin TEQs in Subsurface Soil
Date: 11/11/2003
Project Number: 21560888
Figure Number: 5-7 f
Drawn by: mcr
Design by: mcr
Checked by:

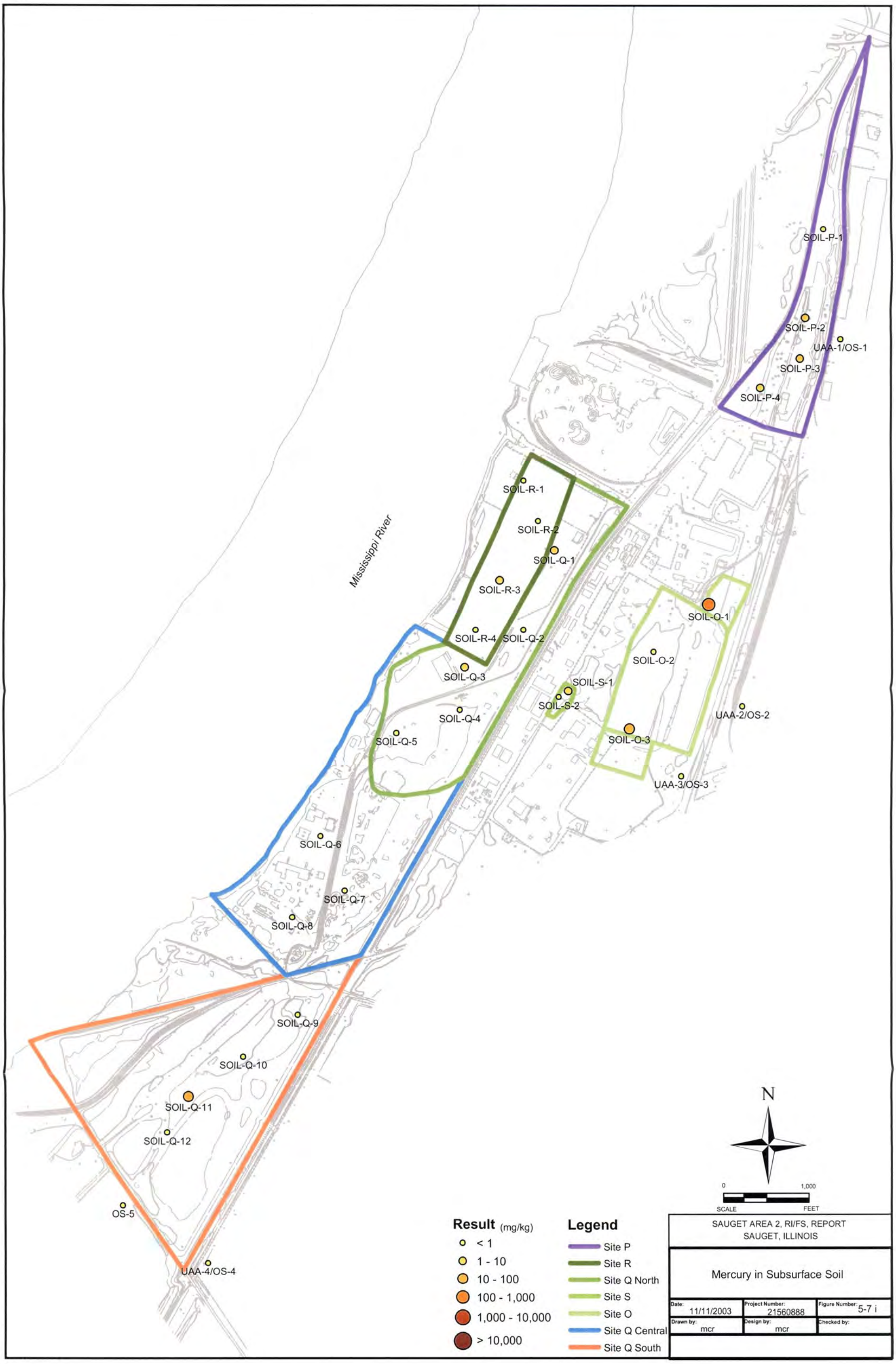


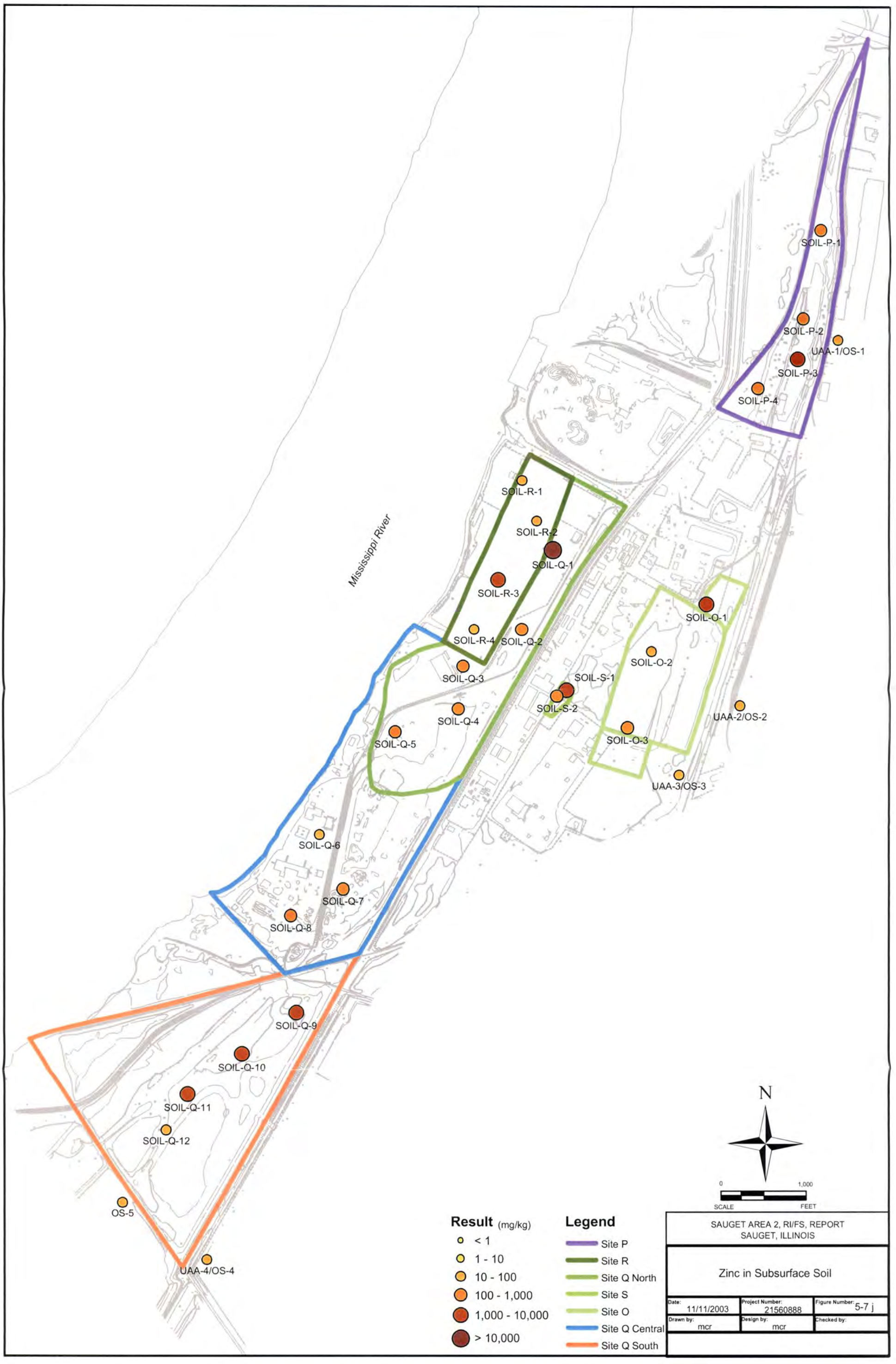
SAUGET AREA 2, RI/FS, REPORT
SAUGET, ILLINOIS

Copper in Subsurface Soil

Date:	Project Number:	Figure Number:
11/11/2003	21560888	5-7 g
Drawn by: mcr	Design by: mcr	Checked by:


SOIL-P-1
SOIL-P-2
UAA-1/OS-1
SOIL-P-3
SOIL-P-4
SOIL-R-1
SOIL-R-2
SOIL-Q-1
SOIL-R-3
SOIL-R-4
SOIL-Q-2
SOIL-Q-3
SOIL-Q-4
SOIL-Q-5
SOIL-O-1
SOIL-O-2
SOIL-S-1
SOIL-S-2
UAA-2/OS-2
SOIL-O-3
UAA-3/OS-3
Mississippi River
SOIL-Q-6
SOIL-Q-7
SOIL-Q-8
SOIL-Q-9
SOIL-Q-10
SOIL-Q-11
SOIL-Q-12
OS-5
UAA-4/OS-4
N
0
1,000
SCALE
FEET
Result (mg/kg)
< 1
1 - 10
10 - 100
100 - 1,000
1,000 - 10,000
> 10,000
Legend
Site P
Site R
Site Q North
Site S
Site O
Site Q Central
Site Q South
SAUGET AREA 2, RI/FS, REPORT
SAUGET, ILLINOIS
Lead in Subsurface Soil
Date: 11/11/2003
Project Number: 21560888
Figure Number: 5-7 h
Drawn by: mcr
Design by: mcr
Checked by:


SOIL-P-1
SOIL-P-2
UAA-1/OS-1
SOIL-P-3
SOIL-P-4
SOIL-R-1
SOIL-R-2
SOIL-Q-1
Mississippi River
SOIL-R-3
SOIL-O-1
SOIL-R-4
SOIL-Q-2
SOIL-O-2
SOIL-Q-3
SOIL-S-1
SOIL-S-2
UAA-2/OS-2
SOIL-Q-4
SOIL-Q-5
SOIL-O-3
UAA-3/OS-3
SOIL-Q-6
SOIL-Q-7
SOIL-Q-8
SOIL-Q-9
SOIL-Q-10
SOIL-Q-11
SOIL-Q-12
OS-5
UAA-4/OS-4
N
0
1,000
SCALE
FEET
Result (mg/kg)
< 1
1 - 10
10 - 100
100 - 1,000
1,000 - 10,000
> 10,000
Legend
Site P
Site R
Site Q North
Site S
Site O
Site Q Central
Site Q South
SAUGET AREA 2, RI/FS, REPORT
SAUGET, ILLINOIS
Mercury in Subsurface Soil
Date: 11/11/2003
Project Number: 21560888
Figure Number: 5-7 i
Drawn by: mcr
Design by: mcr
Checked by:


SOIL-P-1
SOIL-P-2
UAA-1/OS-1
SOIL-P-3
SOIL-P-4
SOIL-R-1
SOIL-R-2
SOIL-Q-1
SOIL-R-3
Mississippi River
SOIL-R-4
SOIL-Q-2
SOIL-O-1
SOIL-O-2
SOIL-Q-3
SOIL-S-1
SOIL-S-2
SOIL-Q-4
UAA-2/OS-2
SOIL-Q-5
SOIL-O-3
UAA-3/OS-3
SOIL-Q-6
SOIL-Q-7
SOIL-Q-8
SOIL-Q-9
SOIL-Q-10
SOIL-Q-11
SOIL-Q-12
OS-5
UAA-4/OS-4
N
0
1,000
SCALE
FEET
Result (mg/kg)
< 1
1 - 10
10 - 100
100 - 1,000
1,000 - 10,000
> 10,000
Legend
Site P
Site R
Site Q North
Site S
Site O
Site Q Central
Site Q South
SAUGET AREA 2, RI/FS, REPORT
SAUGET, ILLINOIS
Zinc in Subsurface Soil
Date: 11/11/2003
Project Number: 21560888
Figure Number: 5-7 j
Drawn by: mcr
Design by: mcr
Checked by:

AIR-P-1
AIR-P-2
AIR-P-4
AIR-P-3
AIR-R-1
Mississippi River
AIR-R-4
AIR-R-2
AIR-R-3
AIR-Q-1
AIR-Q-2
AIR-Q-4
AIR-Q-3
AIR-Q-5
AIR-Q-8
AIR-Q-6
AIR-Q-7
N
0
1,000
SCALE
FEET
Result (ug/m3)
< 1
1 - 10
10 - 100
100 - 1,000
1,000 - 10,000
> 10,000
Legend
Site P
Site R
Site Q North
Site S
Site O
Site Q Central
Site Q South
SAUGET AREA 2, RI/FS, REPORT
SAUGET, ILLINOIS
Total VOCs in Air
Date: 11/11/2003
Project Number: 21560888
Figure Number: 5-8 a
Drawn by: mcr
Design by: mcr
Checked by:

AIR-P-1
AIR-P-2
AIR-P-4
AIR-P-3
AIR-R-1
Mississippi River
AIR-R-4
AIR-R-2
AIR-R-3
AIR-Q-1
AIR-Q-2
AIR-Q-4
AIR-Q-3
AIR-Q-5
AIR-Q-8
AIR-Q-6
AIR-Q-7
N
0
1,000
SCALE
FEET
Result (ug/m3)
< 1
1 - 10
10 - 100
100 - 1,000
1,000 - 10,000
> 10,000
Legend
Site P
Site R
Site Q North
Site S
Site O
Site Q Central
Site Q South
SAUGET AREA 2, RI/FS, REPORT
SAUGET, ILLINOIS
Total SVOCs in Air
Date: 11/11/2003
Project Number: 21560888
Figure Number: 5-8 b
Drawn by: mcr
Design by: mcr
Checked by:

SAUGET AREA 2, RI/FS, REPORT
SAUGET, ILLINOIS

Total Pesticides in Air

Date:	Project Number:	Figure Number:
11/11/2003	21560888	5-8 c
Drawn by: mcr	Design by: mcr	Checked by:

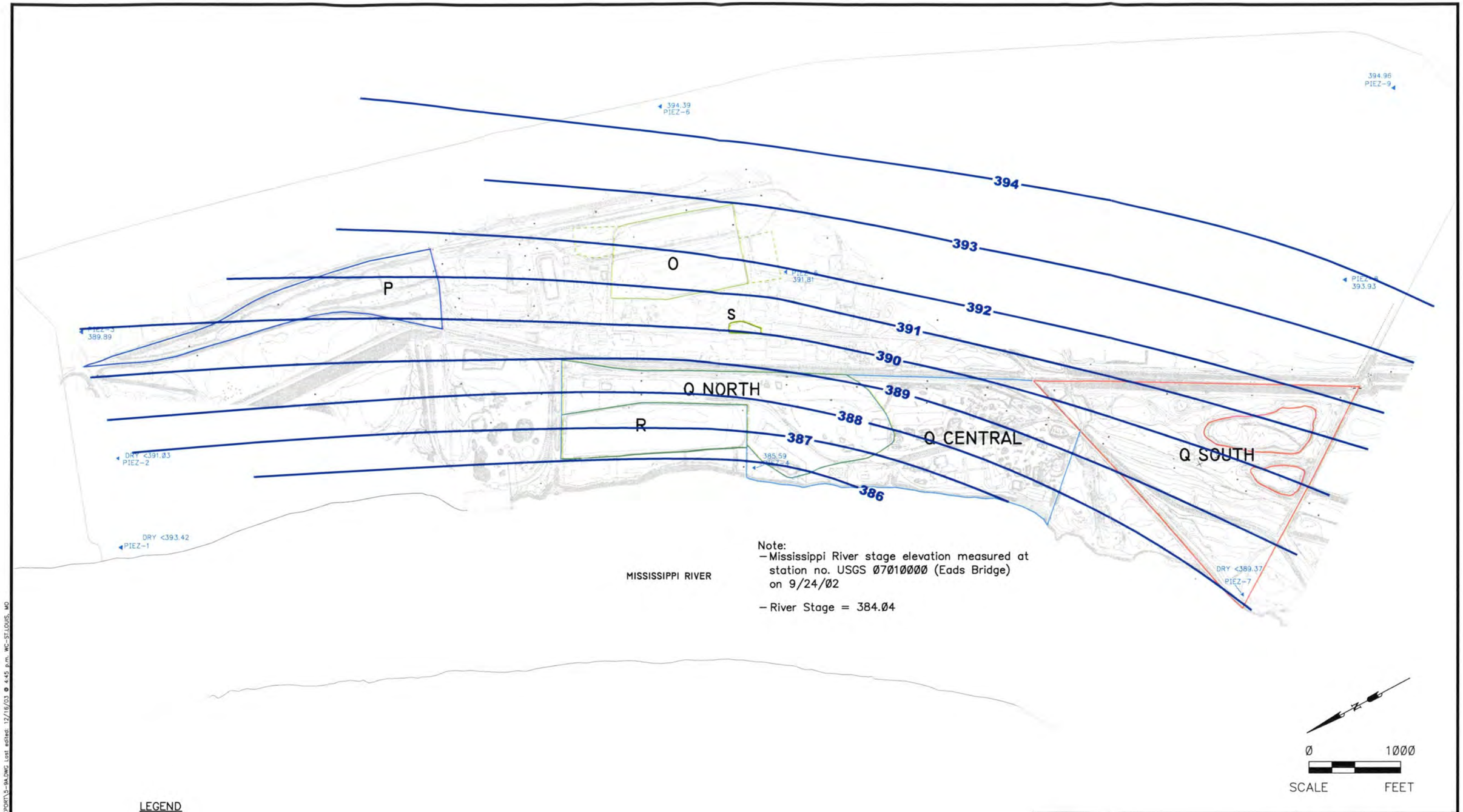
AIR-P-1
AIR-P-2
AIR-P-4
AIR-P-3
AIR-R-1
Mississippi River
AIR-R-4
AIR-R-2
AIR-R-3
AIR-Q-1
AIR-Q-2
AIR-Q-4
AIR-Q-3
AIR-Q-5
AIR-Q-8
AIR-Q-6
AIR-Q-7
N
0
1,000
SCALE
FEET
Result (ug/m3)
< 1
1 - 10
10 - 100
100 - 1,000
1,000 - 10,000
> 10,000
Legend
Site P
Site R
Site Q North
Site S
Site O
Site Q Central
Site Q South
SAUGET AREA 2, RI/FS, REPORT
SAUGET, ILLINOIS
Total PCBs in Air
Date: 11/11/2003
Project Number: 21560888
Figure Number: 5-8 d
Drawn by: mcr
Design by: mcr
Checked by:

AIR-P-1
AIR-P-2
AIR-P-3
AIR-P-4
AIR-R-1
AIR-R-2
AIR-R-3
AIR-R-4
Mississippi River
AIR-Q-1
AIR-Q-2
AIR-Q-3
AIR-Q-4
AIR-Q-5
AIR-Q-6
AIR-Q-7
AIR-Q-8
N
0
1,000
SCALE
FEET
Result (pg/m3)
< 1
1 - 10
10 - 100
100 - 1,000
1,000 - 10,000
> 10,000
Legend
Site P
Site R
Site Q North
Site S
Site O
Site Q Central
Site Q South
SAUGET AREA 2, RI/FS, REPORT
SAUGET, ILLINOIS
Total Dioxin TEQs in Air
Date: 11/11/2003
Project Number: 21560888
Figure Number: 5-8 e
Drawn by: mcr
Design by: mcr
Checked by:

AIR-P-1
AIR-P-2
AIR-P-4
AIR-P-3
AIR-R-1
AIR-R-2
AIR-R-3
Mississippi River
AIR-Q-1
WASTE-S-1
AIR-Q-2
AIR-Q-4
AIR-Q-3
AIR-Q-5
AIR-Q-8
AIR-Q-6
AIR-Q-7
N
0
1,000
SCALE
FEET
Result (ug/m3)
< 1
1 - 10
10 - 100
100 - 1,000
1,000 - 10,000
> 10,000
Legend
Site P
Site R
Site Q North
Site S
Site O
Site Q Central
Site Q South
SAUGET AREA 2, RI/FS, REPORT
SAUGET, ILLINOIS
Copper in Air
Date: 11/11/2003
Project Number: 21560888
Figure Number: 5-8 f
Drawn by: mcr
Design by: mcr
Checked by:

AIR-P-1
AIR-P-2
AIR-P-3
AIR-P-4
AIR-R-1
AIR-R-2
AIR-R-3
Mississippi River
AIR-Q-1
AIR-Q-2
AIR-Q-3
AIR-Q-4
AIR-Q-5
AIR-Q-6
AIR-Q-7
AIR-Q-8
N
0
1,000
SCALE
FEET
Result (ug/m3)
< 1
1 - 10
10 - 100
100 - 1,000
1,000 - 10,000
> 10,000
Legend
Site P
Site R
Site Q North
Site S
Site O
Site Q Central
Site Q South
SAUGET AREA 2, RI/FS, REPORT
SAUGET, ILLINOIS
Lead in Air
Date: 11/11/2003
Project Number: 21560888
Figure Number: 5-8 g
Drawn by: mcr
Design by: mcr
Checked by:

AIR-P-1
AIR-P-2
AIR-P-4
AIR-P-3
AIR-R-1
Mississippi River
AIR-R-2
AIR-R-3
AIR-Q-1
AIR-Q-2
AIR-Q-4
AIR-Q-3
AIR-Q-5
AIR-Q-8
AIR-Q-6
AIR-Q-7
N
0
1,000
SCALE
FEET
Result (ug/m3)
< 1
1 - 10
10 - 100
100 - 1,000
1,000 - 10,000
> 10,000
Legend
Site P
Site R
Site Q North
Site S
Site O
Site Q Central
Site Q South
SAUGET AREA 2, RI/FS, REPORT
SAUGET, ILLINOIS
Zinc in Air
Date: 11/11/2003
Project Number: 21560888
Figure Number: 5-8 h
Drawn by: mcr
Design by: mcr
Checked by:



Note:
- Mississippi River stage elevation measured at station no. USGS 07010000 (Eads Bridge) on 9/24/02
- River Stage = 384.04

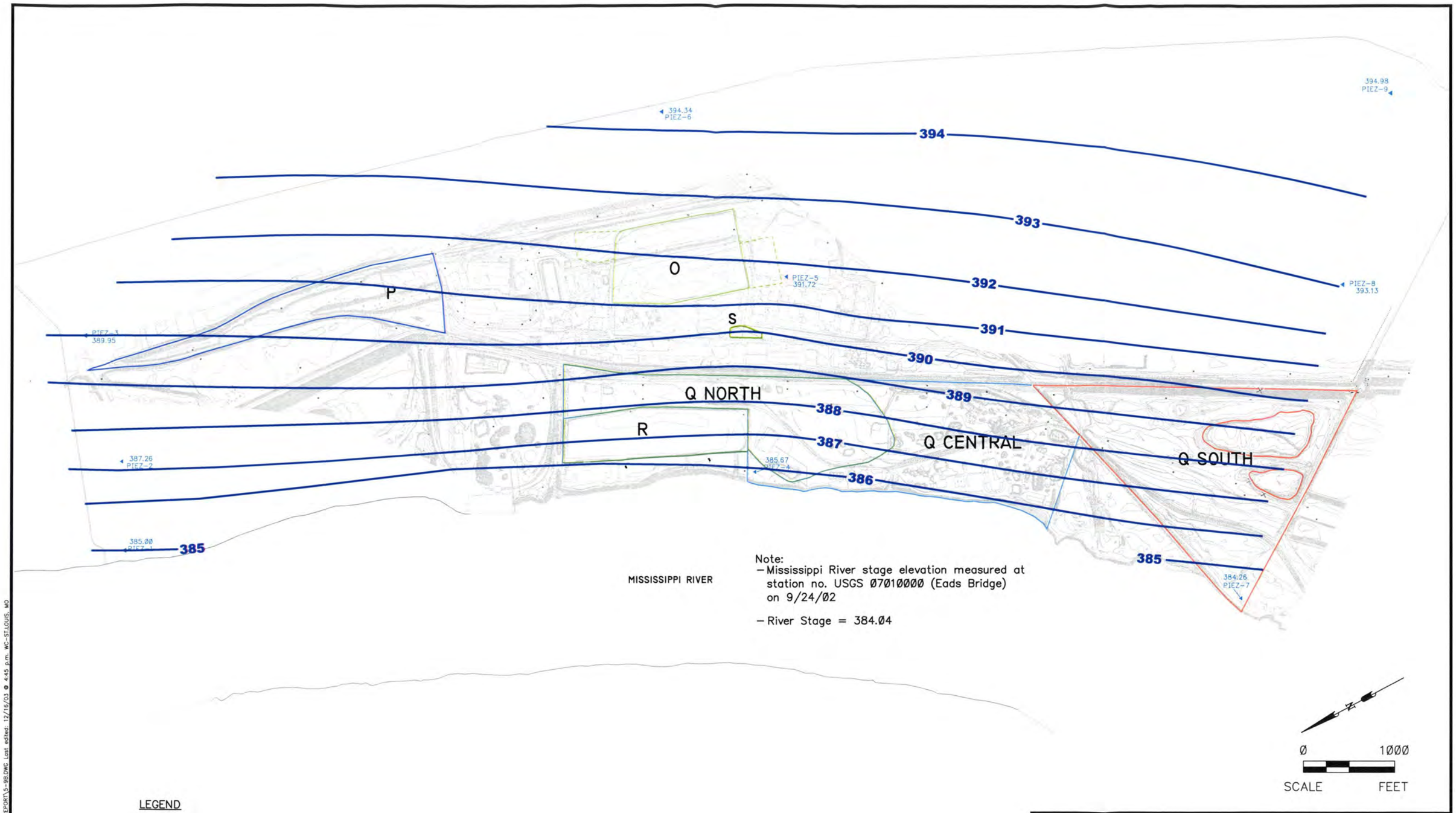
LEGEND

▲ Piezometer Cluster

—392— Groundwater Elevation Contour (Ft)

SAUGET AREA 2 RI/FS SAUGET ILLINOIS	PROJECT NO. 21560888.07001
URS	
DRN. BY:djd 10/7/03 DSGN. BY:bh CHKD. BY:	Groundwater Elevation Contour Map Shallow – 9/23/02
	FIG. NO. 5–9a

File: E:\21560888.04001\REPORTS\RI_FS REPORT\5-9A.DWG Last edited: 12/16/03 @ 4:45 p.m. WC-ST.LOUIS, MO



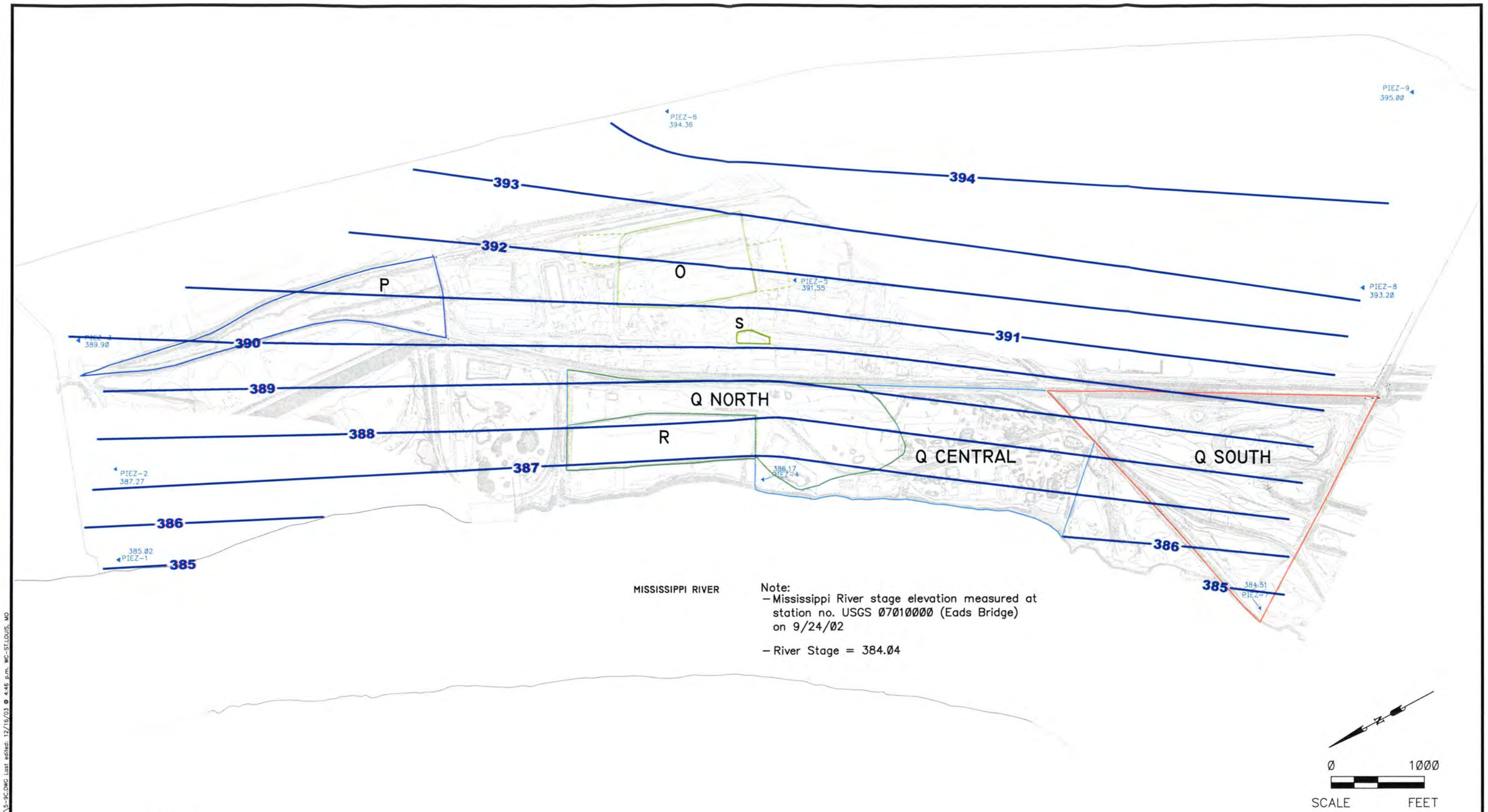
LEGEND

▲ Piezometer Cluster

—392— Groundwater Elevation Contour (Ft)

SAUGET AREA 2 RI/FS SAUGET ILLINOIS	PROJECT NO. 21560888.07001
URS	
DRN. BY:djd 10/7/03 DSGN. BY:bh CHKD. BY:	Groundwater Elevation Contour Map Medium – 9/23/02
	FIG. NO. 5–9b

File: E:\21560888.04001\REPORTS\RI_FS REPORTS\5-9B.DWG Last edited: 12/16/03 @ 4:45 p.m. WC-ST.LOUIS, MO



Note:
- Mississippi River stage elevation measured at station no. USGS 07010000 (Eads Bridge) on 9/24/02
- River Stage = 384.04

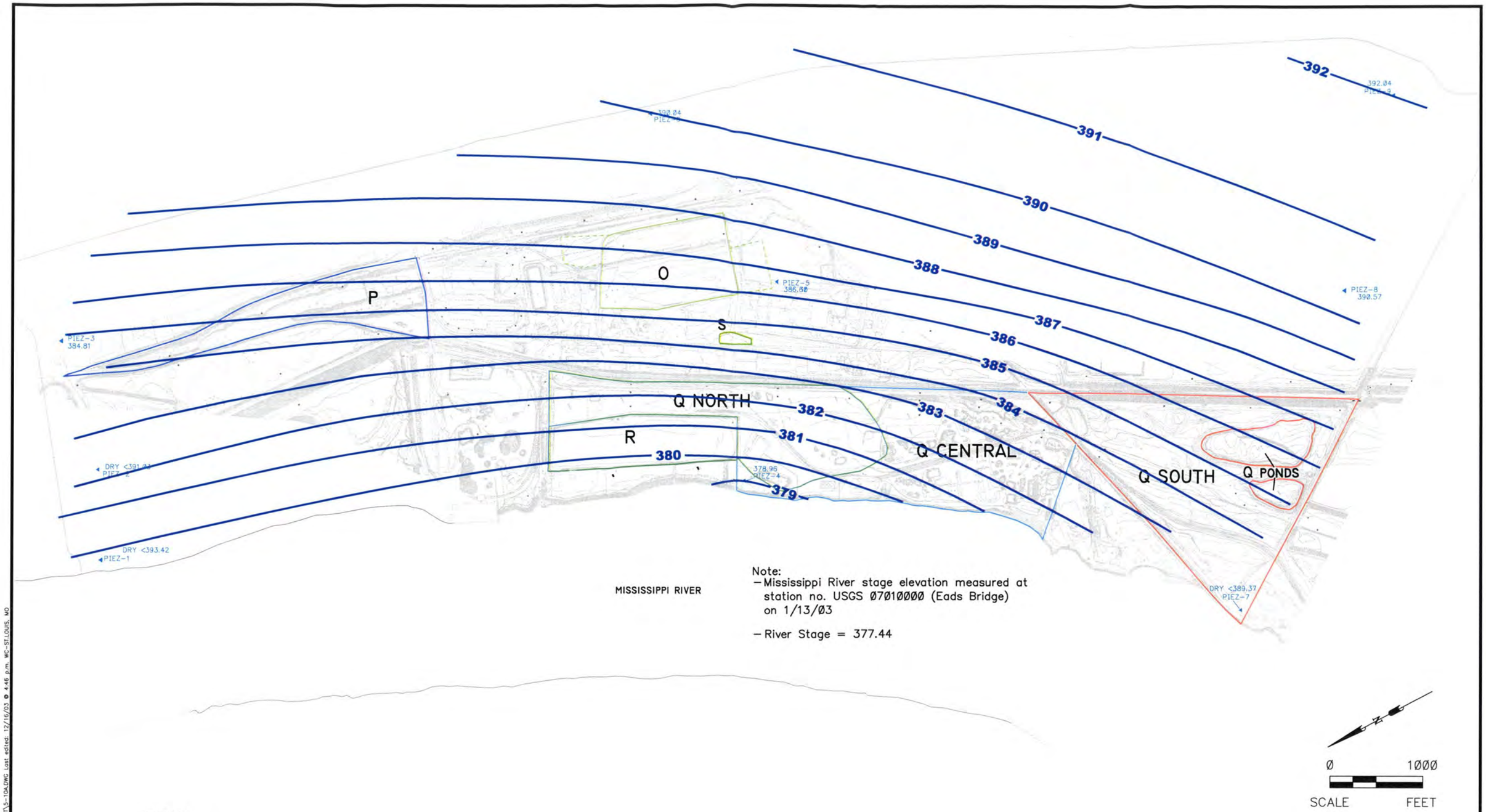
LEGEND

▲ Piezometer Cluster

—392— Groundwater Elevation Contour (Ft)

SAUGET AREA 2 RI/FS SAUGET ILLINOIS	PROJECT NO. 21560888.07001
URS	
DRN. BY:djd 10/7/03 DSGN. BY:bh CHKD. BY:	Groundwater Elevation Contour Map Deep – 9/23/02
	FIG. NO. 5–9c

File: E:\21560888.04001\REPORTS\RI_FS REPORT\5-9C.DWG Last edited: 12/16/03 @ 4:46 p.m. WC-ST.LOUIS, MO



Note:
- Mississippi River stage elevation measured at station no. USGS 07010000 (Eads Bridge) on 1/13/03
- River Stage = 377.44

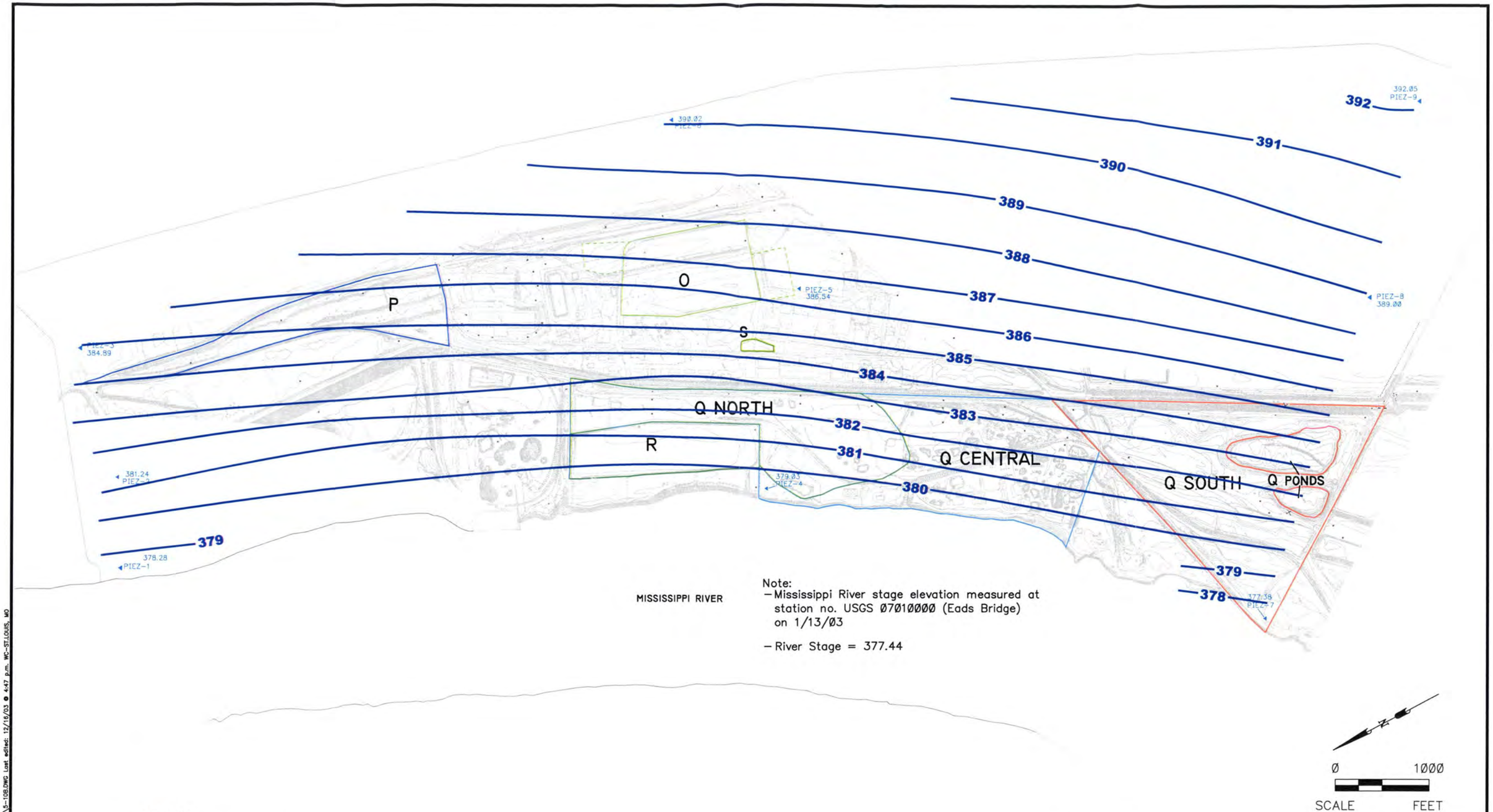
LEGEND

▲ Piezometer Cluster

—392— Groundwater Elevation Contour (Ft)

SAUGET AREA 2 RI/FS SAUGET ILLINOIS	PROJECT NO. 21560888.07001
URS	
DRN. BY:djd 10/7/03 DSGN. BY:bh CHKD. BY:	Groundwater Elevation Contour Map Shallow – 1/23/03
	FIG. NO. 5-10a

File: E:\21560888.04001\REPORTS\RI_FS REPORT\5-10A.DWG Last edited: 12/16/03 @ 4:46 p.m. WC-ST.LOUIS, MO



Note:
- Mississippi River stage elevation measured at station no. USGS 07010000 (Eads Bridge) on 1/13/03
- River Stage = 377.44

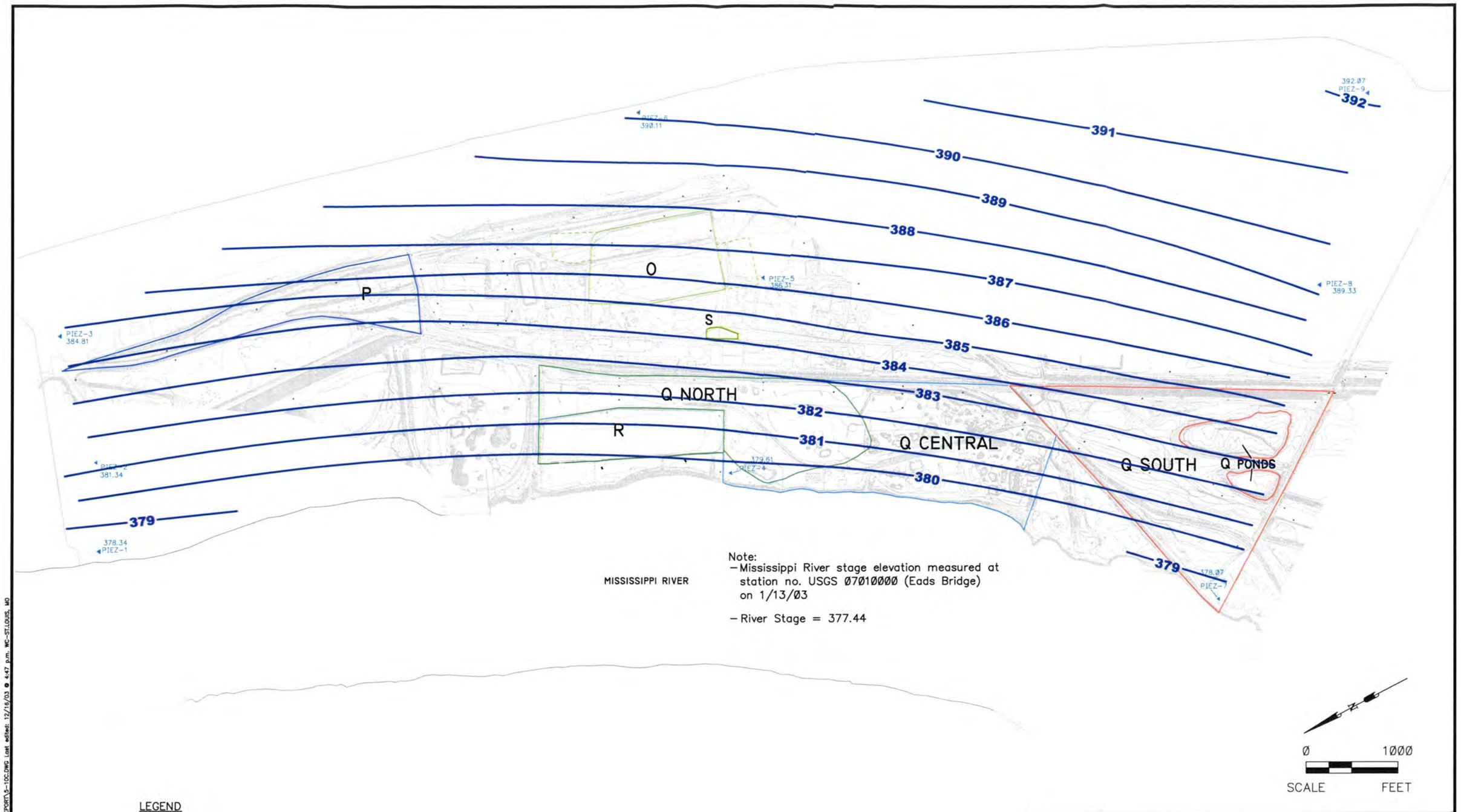
LEGEND

▲ Piezometer Cluster

—392— Groundwater Elevation Contour (Ft)

SAUGET AREA 2 RI/FS SAUGET ILLINOIS	PROJECT NO. 21560888.07001
URS	
DRN. BY:djd 10/7/03 DSGN. BY:bh CHKD. BY:	Groundwater Elevation Contour Map Medium – 1/23/03
	FIG. NO. 5-10b

File: E:\21560888.04001\REPORTS\RI_FS REPORT\5-10B.DWG Last edited: 12/15/03 @ 4:47 p.m. WC-ST.LOUIS, MO



Note:
- Mississippi River stage elevation measured at station no. USGS 07010000 (Eads Bridge) on 1/13/03
- River Stage = 377.44

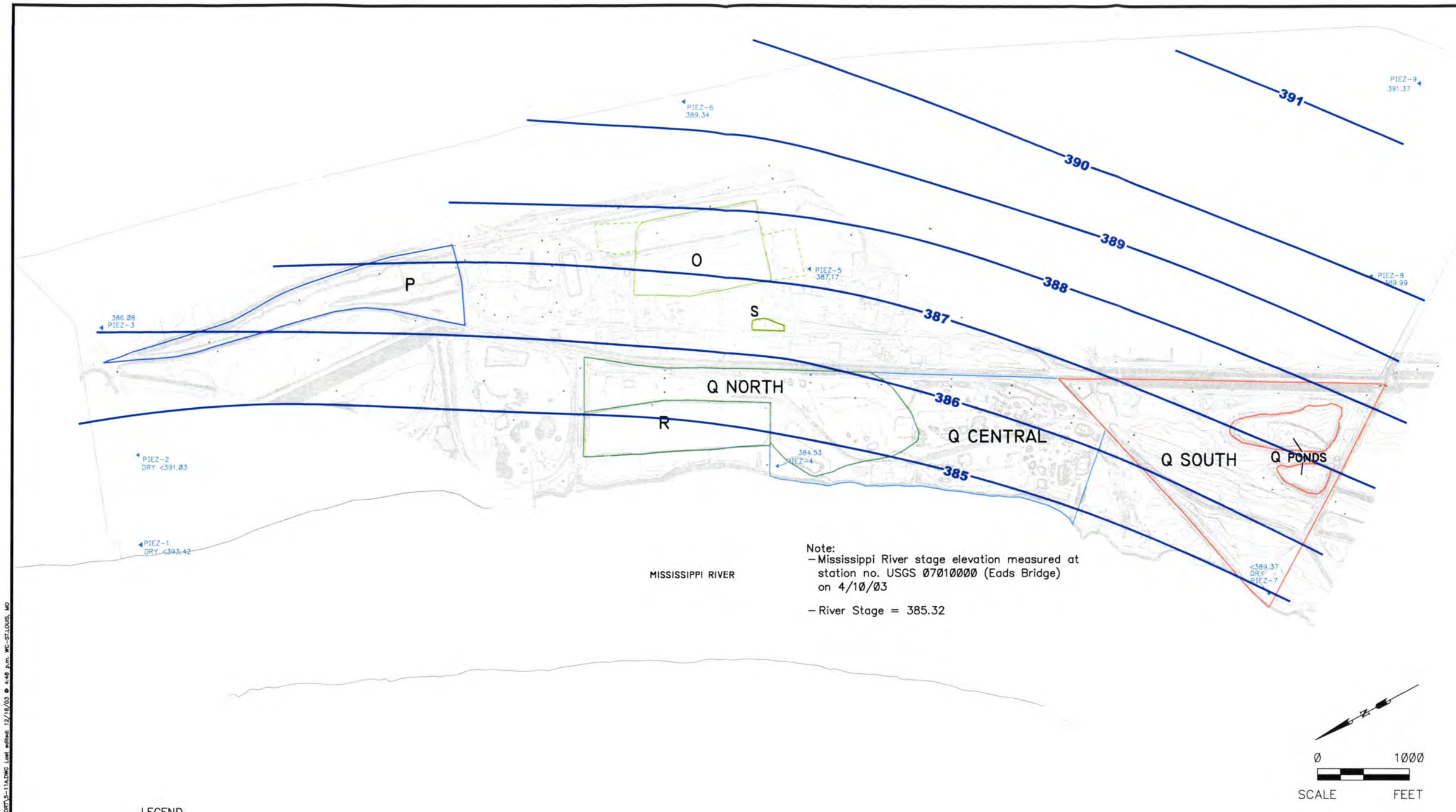
LEGEND

▲ Piezometer Cluster

—392— Groundwater Elevation Contour (Ft)

SAUGET AREA 2 RI/FS SAUGET ILLINOIS	PROJECT NO. 21560888.07001
URS	
DRN. BY:djd 10/7/03 DSGN. BY:bh CHKD. BY:	Groundwater Elevation Contour Map Deep – 1/23/03
	FIG. NO. 5-10c

File: E:\21560888.04001\REPORTS\RI_FS REPORT\5-10C.DWG Last edited: 12/19/03 @ 4:47 p.m. WC-ST.LOUIS, MO



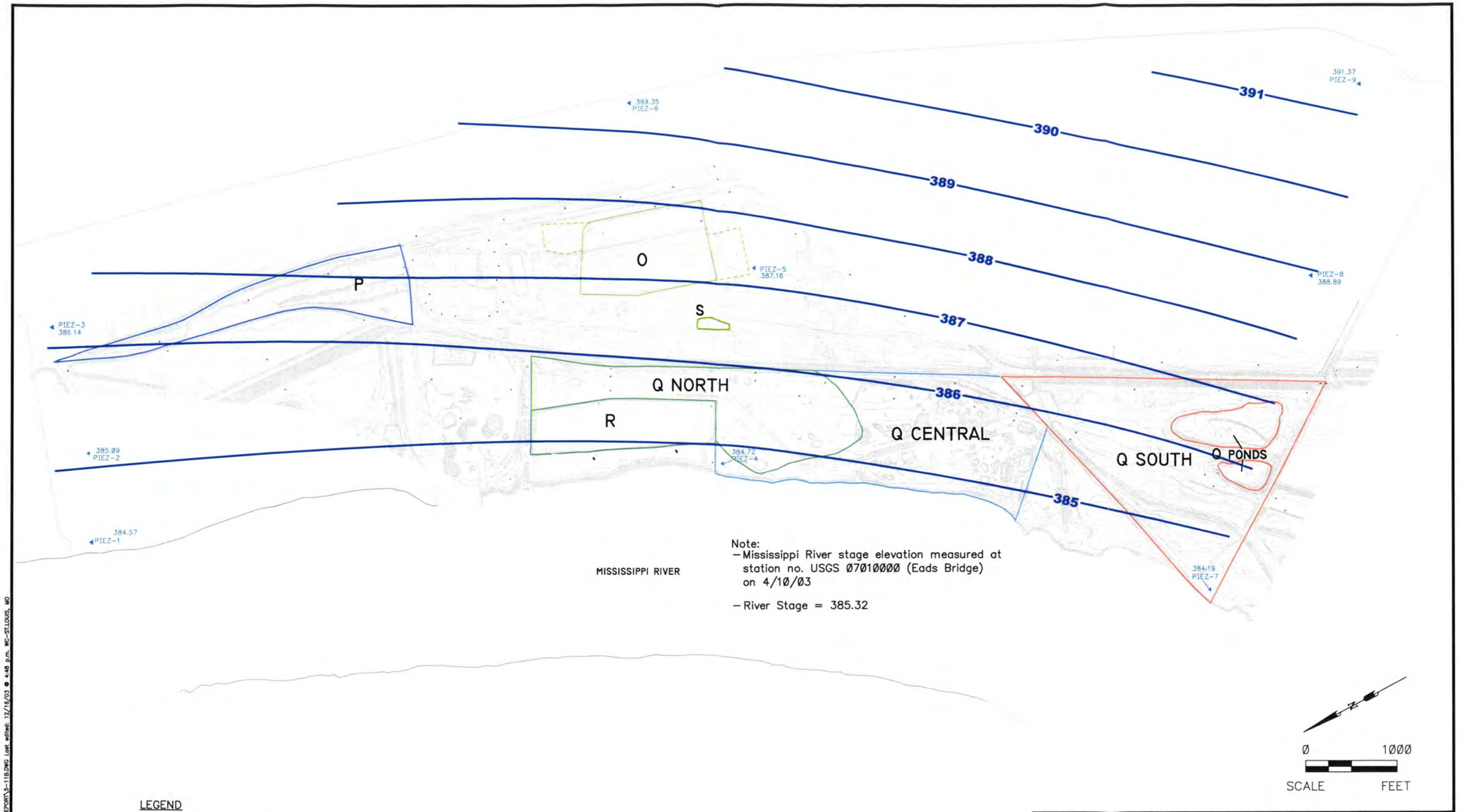
LEGEND

▲ Piezometer Cluster

—392— Groundwater Elevation Contour (Ft)

SAUGET AREA 2 RI/FS SAUGET ILLINOIS	PROJECT NO. 21560888.07001
URS	
DRN. BY:djd 10/7/03 DSGN. BY:bh CHKD. BY:	Groundwater Elevation Contour Map Shallow – 4/22/03
	FIG. NO. 5–11a

File: E:\21560888.04001\REPORTS\RI_FS REPORT\5-11A.DWG Last edited: 12/16/03 @ 4:48 p.m. WC-ST.LOUIS, MO



Note:
- Mississippi River stage elevation measured at station no. USGS 07010000 (Eads Bridge) on 4/10/03
- River Stage = 385.32

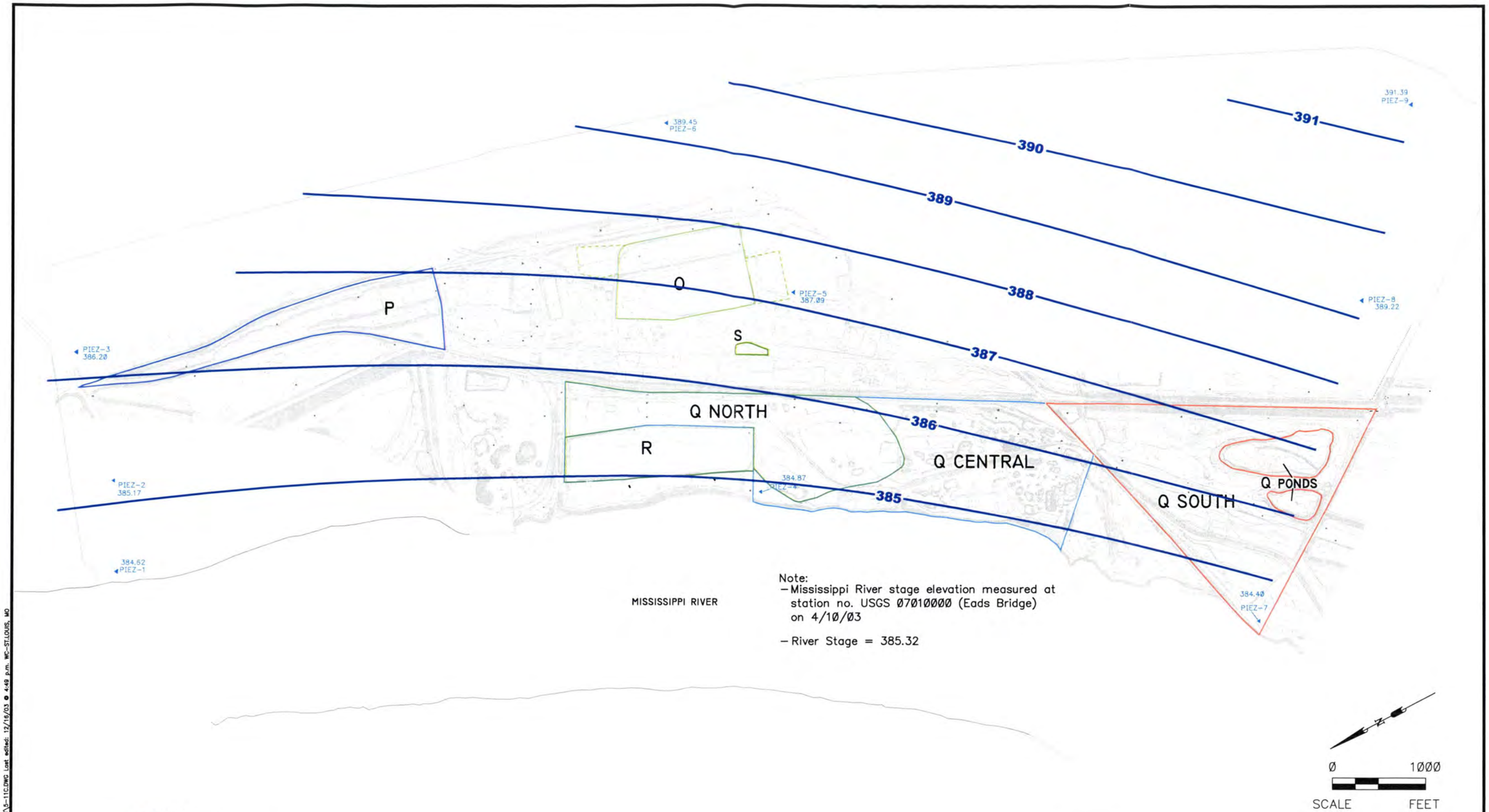
LEGEND

▲ Piezometer Cluster

—392— Groundwater Elevation Contour (Ft)

SAUGET AREA 2 RI/FS SAUGET ILLINOIS	PROJECT NO. 21560888.07001
URS	
DRN. BY:djd 10/7/03 DSGN. BY:bh CHKD. BY:	Groundwater Elevation Contour Map Medium – 4/22/03
	FIG. NO. 5-11b

File: E:\21560888.04001\REPORTS\RI_FS REPORT\5-11B.DWG Last edited: 12/16/03 @ 4:45 p.m. WC-ST.LOUIS, MO



Note:
- Mississippi River stage elevation measured at station no. USGS 07010000 (Eads Bridge) on 4/10/03
- River Stage = 385.32

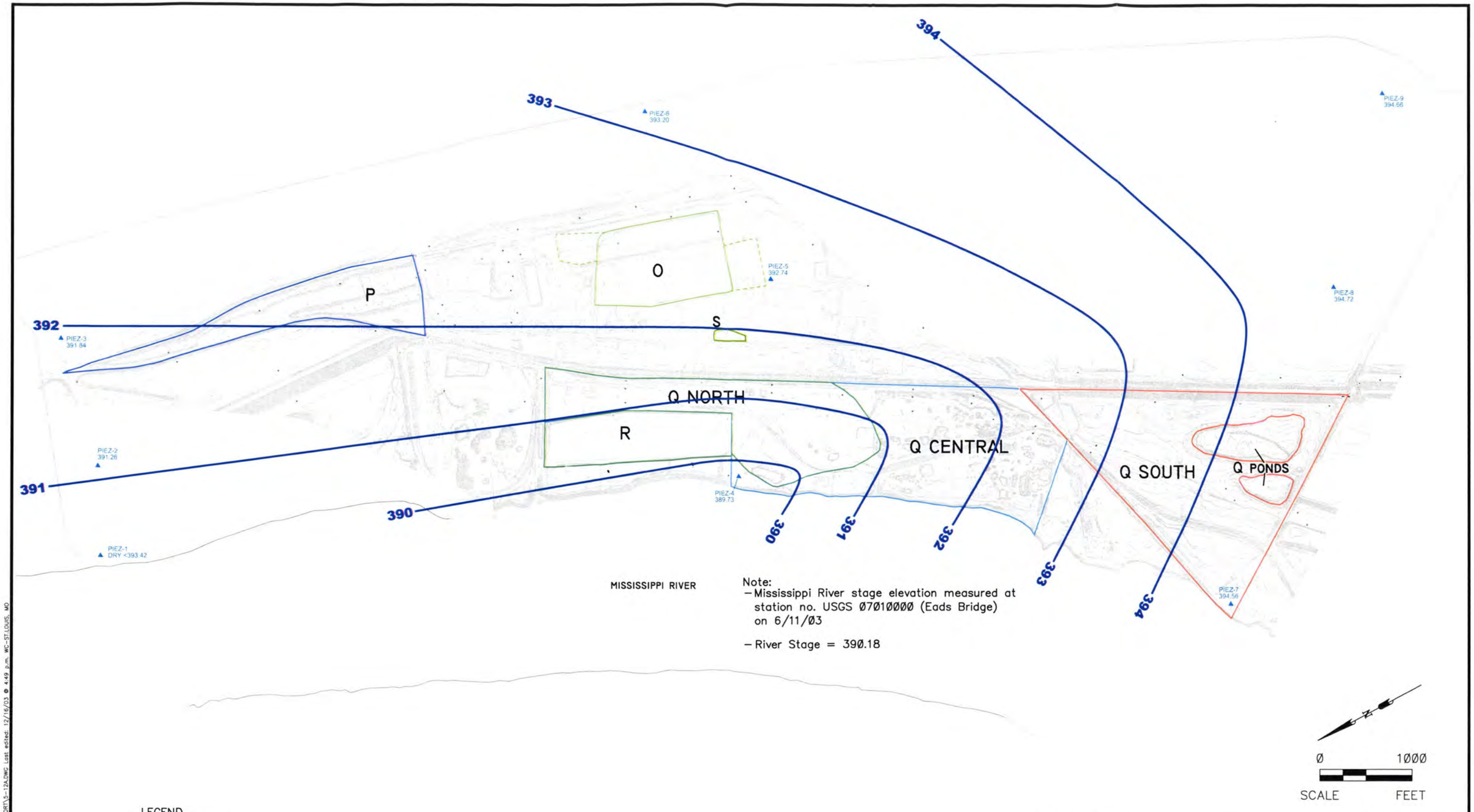
LEGEND

▲ Piezometer Cluster

—392— Groundwater Elevation Contour (Ft)

SAUGET AREA 2 RI/FS SAUGET ILLINOIS	PROJECT NO. 21560888.07001
URS	
DRN. BY:djd 10/7/03 DSGN. BY:bh CHKD. BY:	Groundwater Elevation Contour Map Deep – 4/22/03
	FIG. NO. 5–11c

File: E:\21560888.04001\REPORTS\RI_FS REPORT\5-11C.DWG Last edited: 12/16/03 @ 4:49 p.m. WC-ST.LOUIS, MO



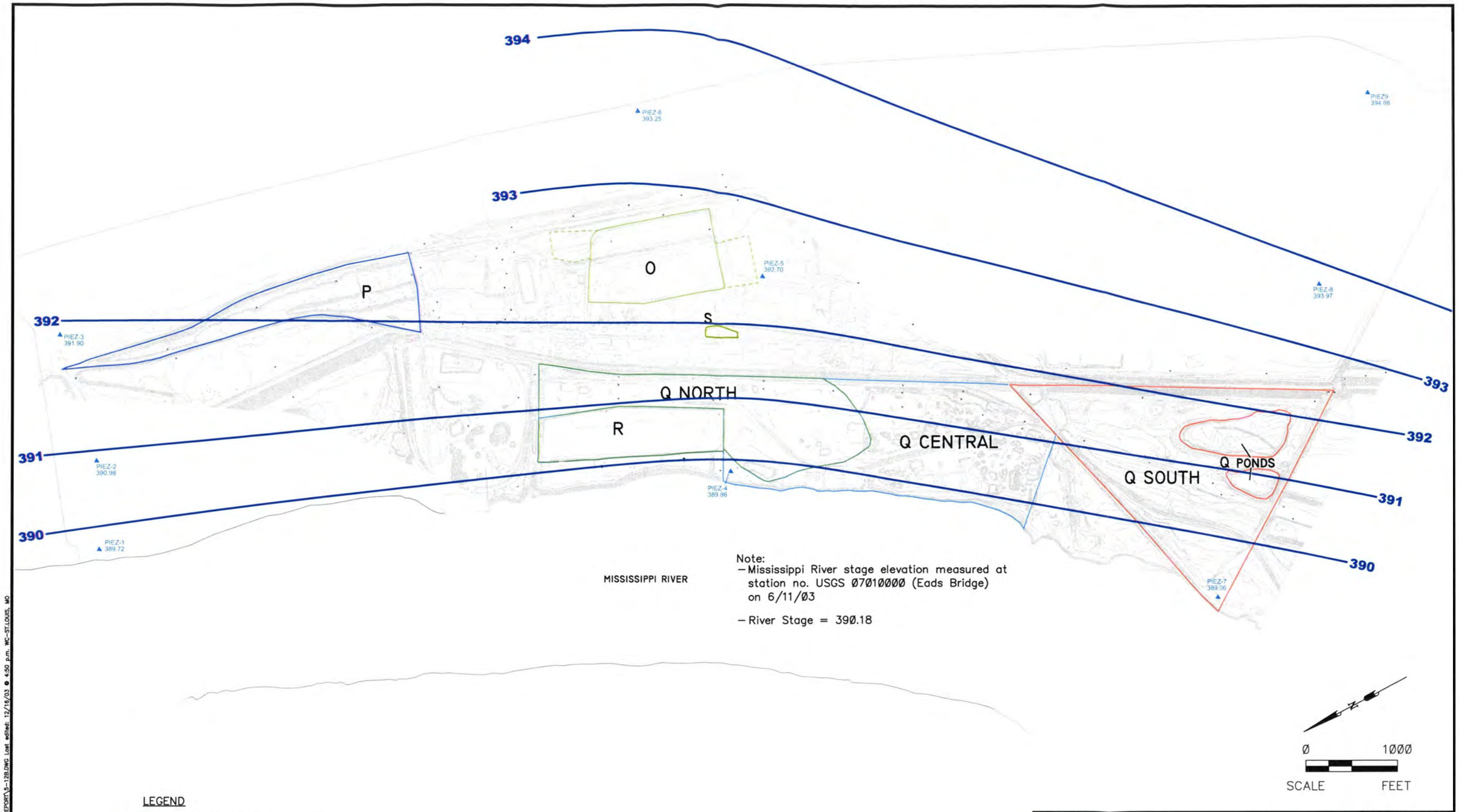
LEGEND

▲ Piezometer Cluster

—392— Groundwater Elevation Contour (Ft)

SAUGET AREA 2 RI/FS SAUGET ILLINOIS	PROJECT NO. 21560888.07001
URS	
DRN. BY:djd 10/7/03 DSGN. BY:bh CHKD. BY:	Groundwater Elevation Contour Map Shallow – 6/9/03
FIG. NO. 5–12a	

File: E:\21560888.04001\REPORTS\RI_FS REPORT\5-12A.DWG Last edited: 12/16/03 @ 4:49 p.m. WC-ST.LOUIS, MO



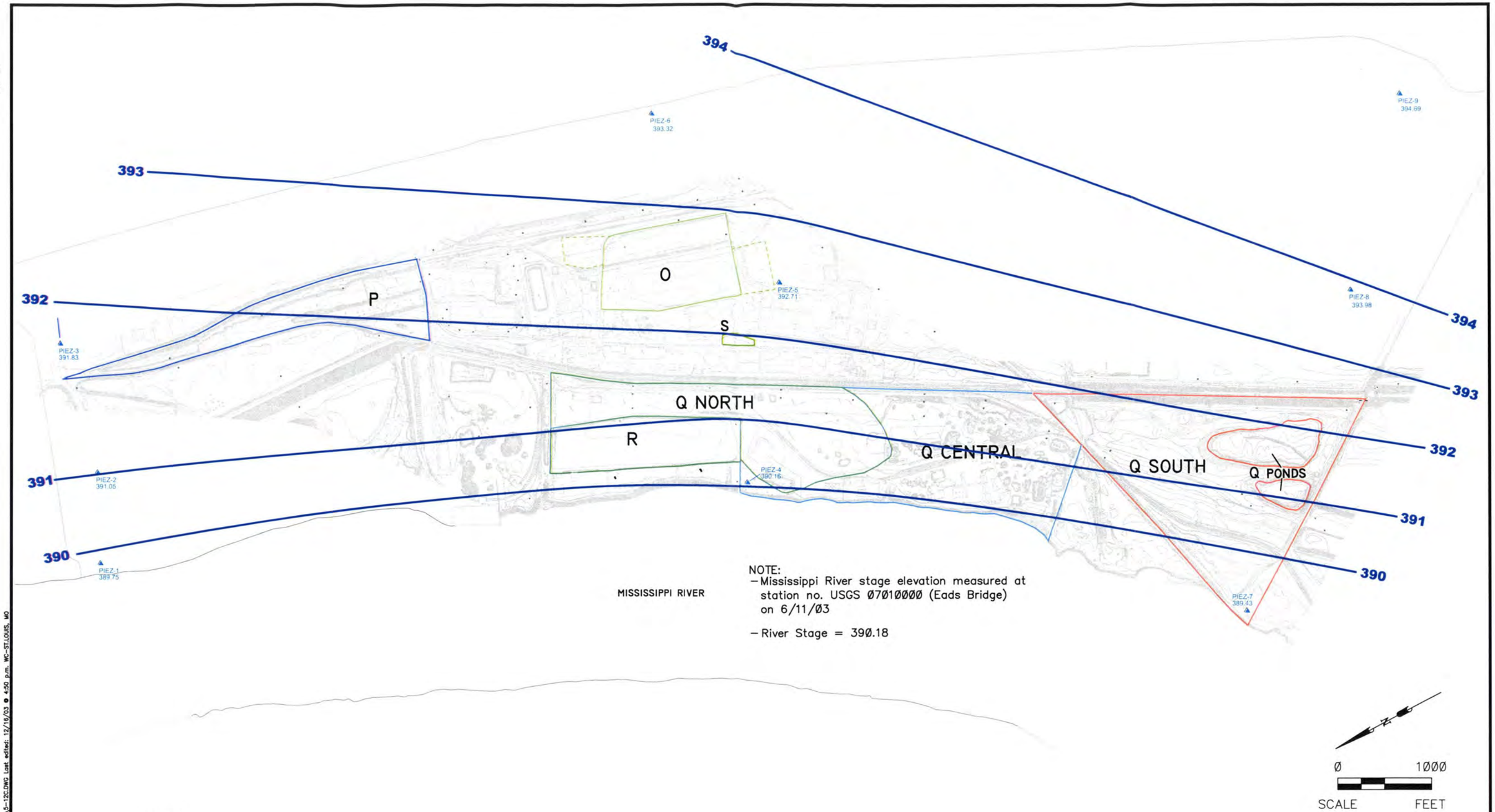
LEGEND

▲ Piezometer Cluster

—392— Groundwater Elevation Contour (Ft)

SAUGET AREA 2 RI/FS SAUGET ILLINOIS	PROJECT NO. 21560888.07001
URS	
DRN. BY:djd 10/7/03 DSGN. BY:bh CHKD. BY:	Groundwater Elevation Contour Map Medium – 6/9/03
	FIG. NO. 5–12b

File: E:\21560888.04001\REPORTS\RI_FS REPORT\5-12B.DWG Last edited: 12/16/03 @ 4:50 p.m. WC-ST.LOUIS, MO



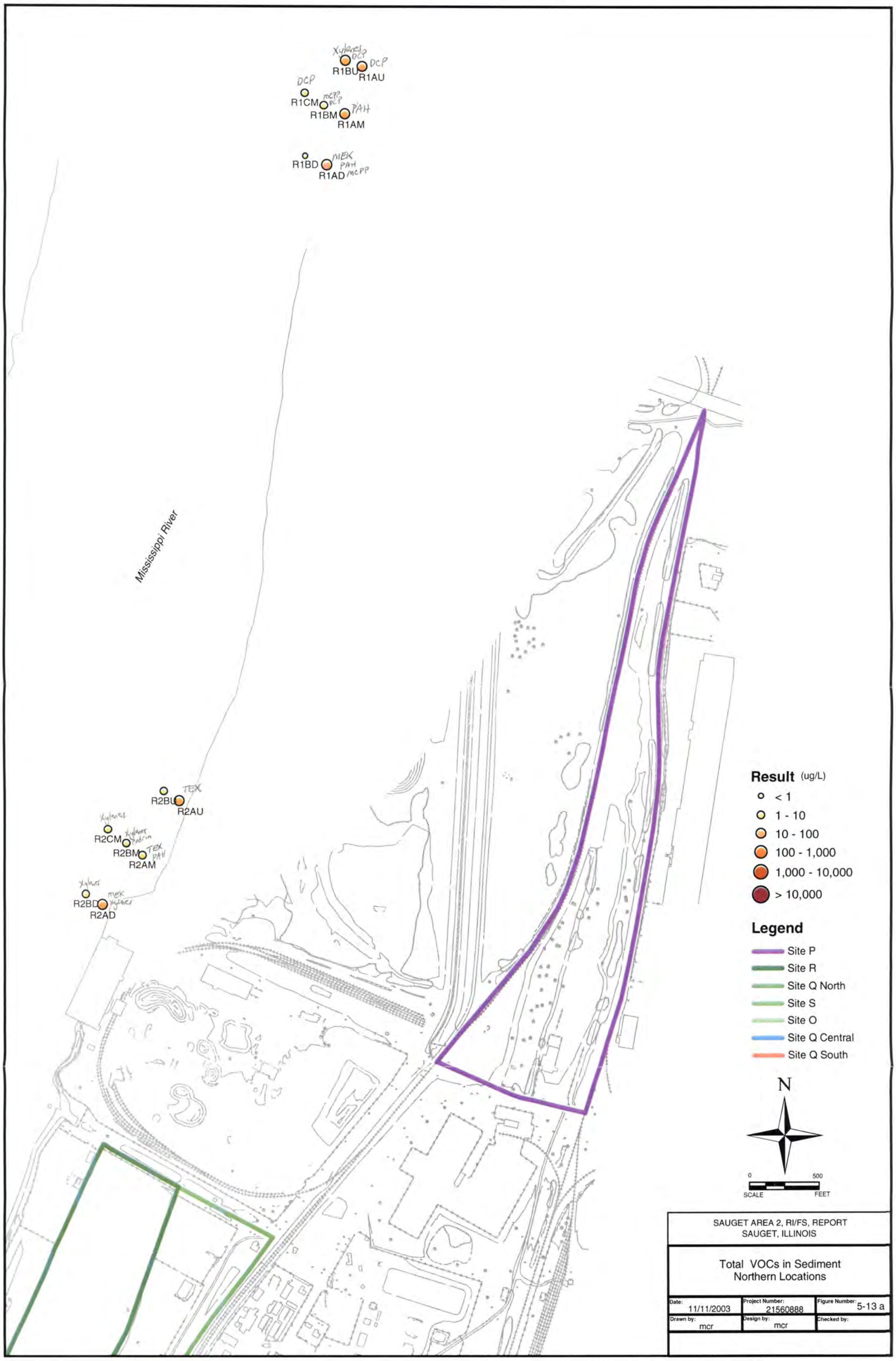
LEGEND

▲ Piezometer Cluster

—392— Groundwater Elevation Contour (Ft)

SAUGET AREA 2 RI/FS SAUGET ILLINOIS	PROJECT NO. 21560888.07001
URS	
DRN. BY:djd 10/7/03 DSGN. BY:bh CHKD. BY:	Groundwater Elevation Contour Map Deep – 6/9/03
	FIG. NO. 5–12c

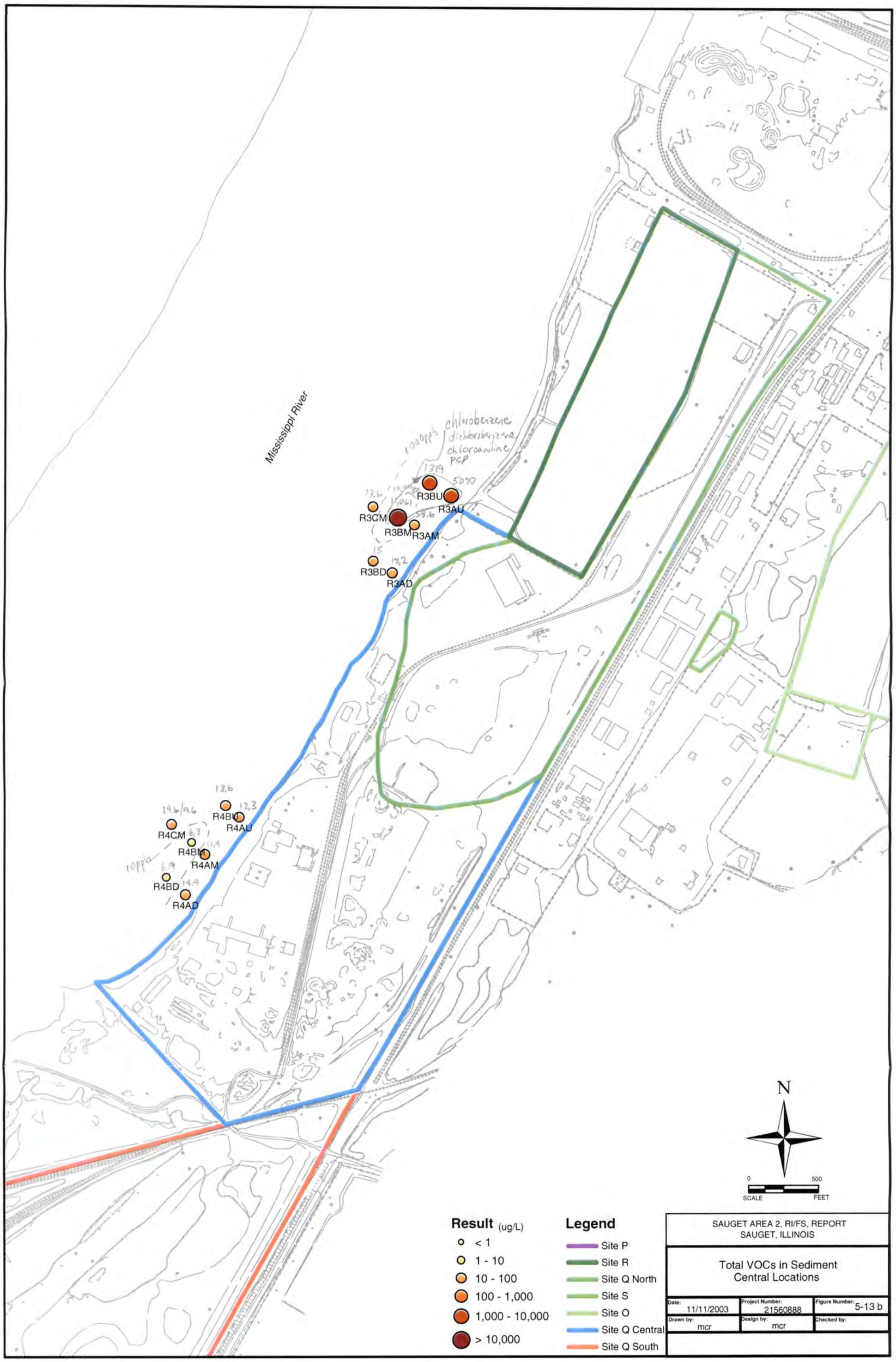
File: E:\21560888.04001\REPORTS\RI_FS REPORT\5-12C.DWG Last edited: 12/16/03 @ 4:50 p.m. WC-ST.LOUIS, MO

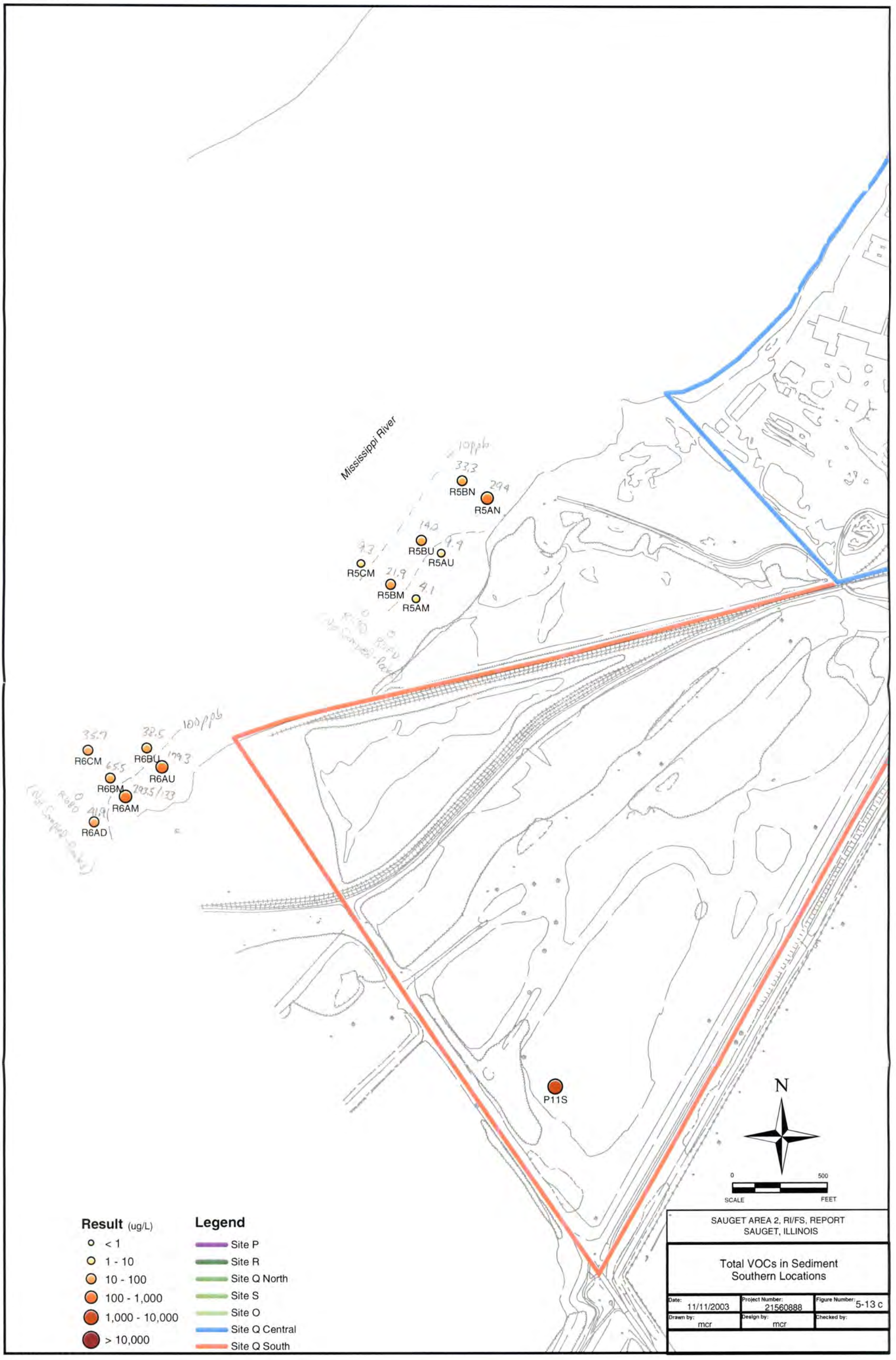


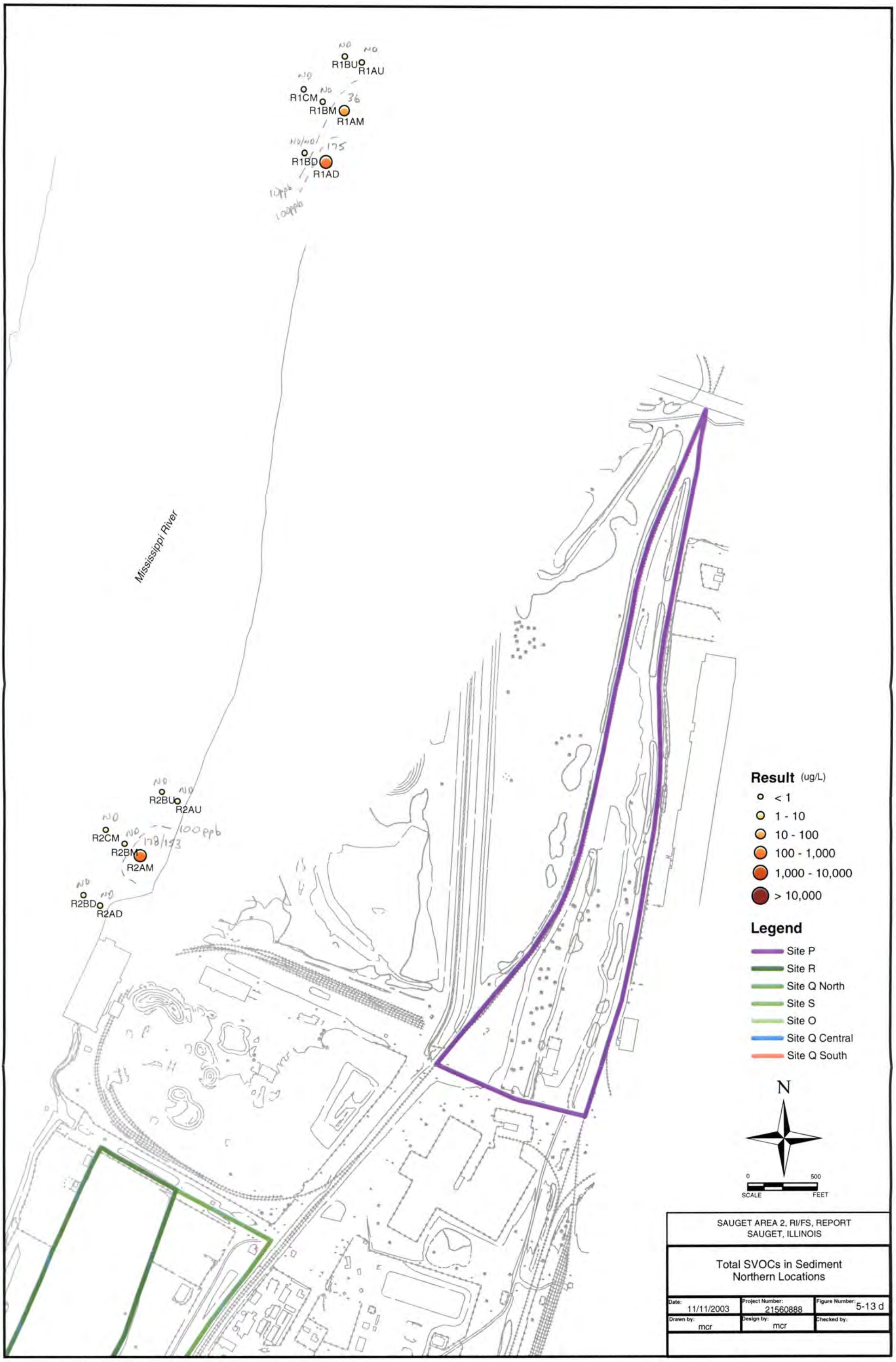
SAUGET AREA 2, RI/FS, REPORT
SAUGET, ILLINOIS

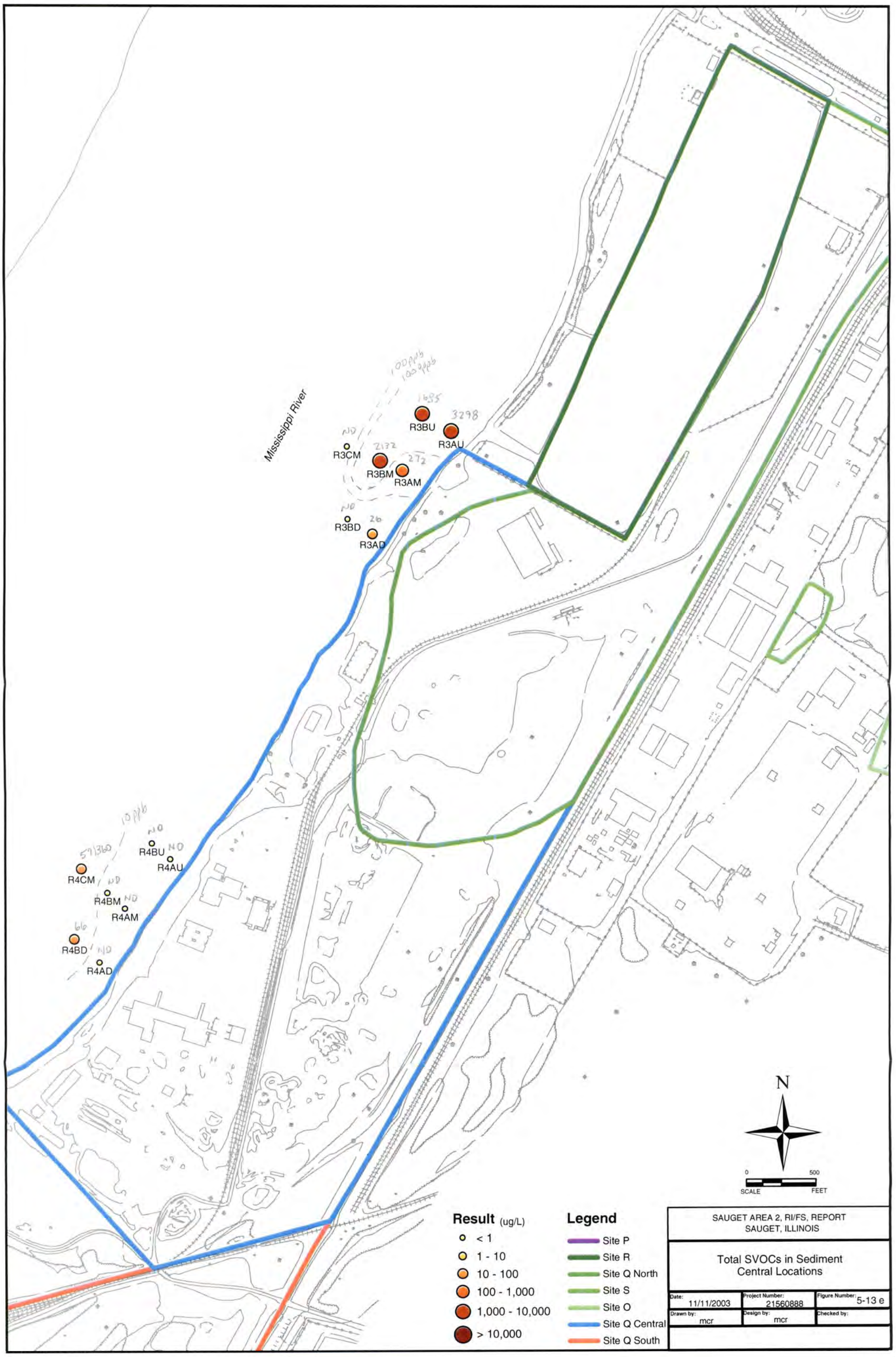
Total VOCs in Sediment
Northern Locations

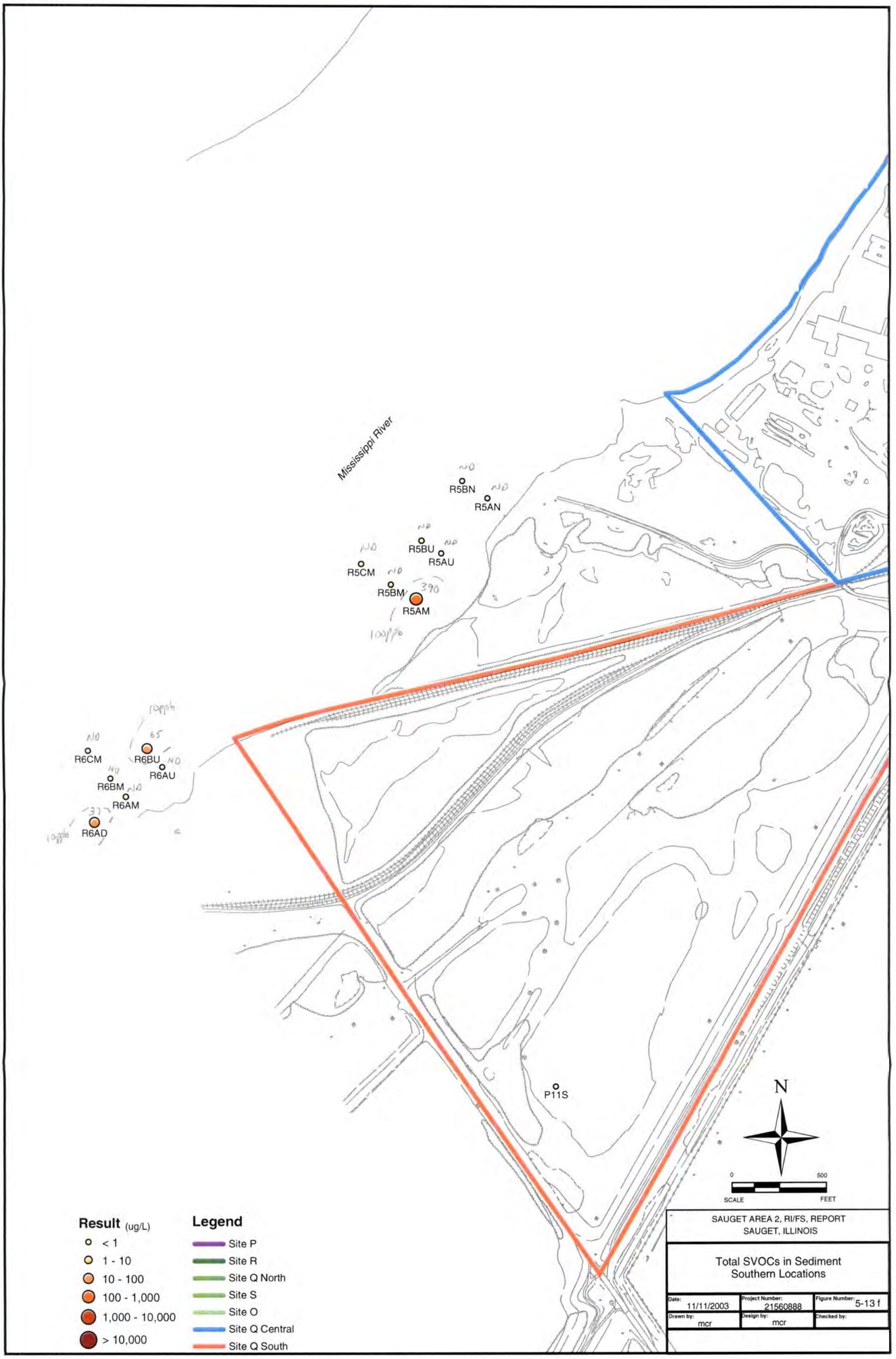
Date:	Project Number:	Figure Number:
11/11/2003	21560888	5-13 a
Drawn by: mcr	Design by: mcr	Checked by:

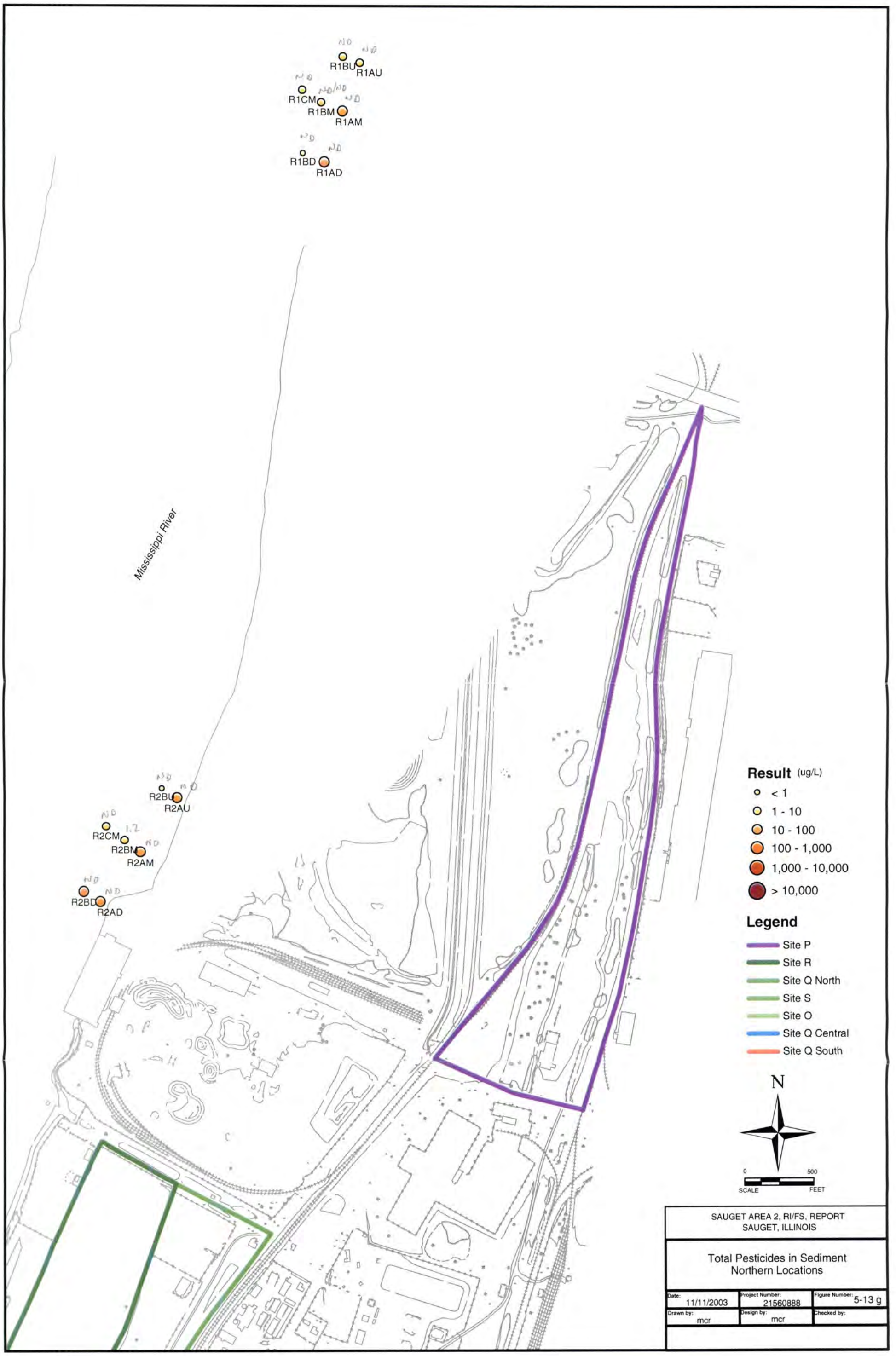

Mississippi River
chlorobenzene
dichlorobenzene
chloroaniline
PCP
1000ppb
1319
5070
R3BU
R3AU
13.6
14,061
58.6
R3CM
R3BM
R3AM
15
17.2
R3BD
R3AD
13.6
12.3
14.6/19.6
R4BU
R4AU
R4CM
6.3
11.9
R4BM
R4AM
10ppb
6.9
14.9
R4BD
R4AD
N
0
500
SCALE
FEET
Result (ug/L)
< 1
1 - 10
10 - 100
100 - 1,000
1,000 - 10,000
> 10,000
Legend
Site P
Site R
Site Q North
Site S
Site O
Site Q Central
Site Q South
SAUGET AREA 2, RI/FS, REPORT
SAUGET, ILLINOIS
Total VOCs in Sediment
Central Locations
Date: 11/11/2003
Project Number: 21560888
Figure Number: 5-13 b
Drawn by: mcr
Design by: mcr
Checked by:


Mississippi River
R5BN
R5AN
R5BU
R5AU
R5CM
R5BM
R5AM
R6CM
R6BU
R6AU
R6BM
R6AM
R6AD
P11S
N
0
500
SCALE
FEET
Result (ug/L)
< 1
1 - 10
10 - 100
100 - 1,000
1,000 - 10,000
> 10,000
Legend
Site P
Site R
Site Q North
Site S
Site O
Site Q Central
Site Q South
SAUGET AREA 2, RI/FS, REPORT
SAUGET, ILLINOIS
Total VOCs in Sediment
Southern Locations
Date: 11/11/2003
Project Number: 21560888
Figure Number: 5-13 c
Drawn by: mcr
Design by: mcr
Checked by:


R1BU
R1AU
R1CM
R1BM
R1AM
R1BD
R1AD
Mississippi River
R2BU
R2AU
R2CM
R2BM
R2AM
R2BD
R2AD
Result (ug/L)
< 1
1 - 10
10 - 100
100 - 1,000
1,000 - 10,000
> 10,000
Legend
Site P
Site R
Site Q North
Site S
Site O
Site Q Central
Site Q South
N
0
500
SCALE
FEET
SAUGET AREA 2, RI/FS, REPORT
SAUGET, ILLINOIS
Total SVOCs in Sediment
Northern Locations
Date: 11/11/2003
Project Number: 21560888
Figure Number: 5-13 d
Drawn by: mcr
Design by: mcr
Checked by:


Mississippi River
R3BU
R3AU
R3CM
R3BM
R3AM
R3BD
R3AD
R4BU
R4AU
R4CM
R4BM
R4AM
R4BD
R4AD
N
0
500
SCALE
FEET
Result (ug/L)
< 1
1 - 10
10 - 100
100 - 1,000
1,000 - 10,000
> 10,000
Legend
Site P
Site R
Site Q North
Site S
Site O
Site Q Central
Site Q South
SAUGET AREA 2, RI/FS, REPORT
SAUGET, ILLINOIS
Total SVOCs in Sediment
Central Locations
Date: 11/11/2003
Project Number: 21560888
Figure Number: 5-13 e
Drawn by: mcr
Design by: mcr
Checked by:

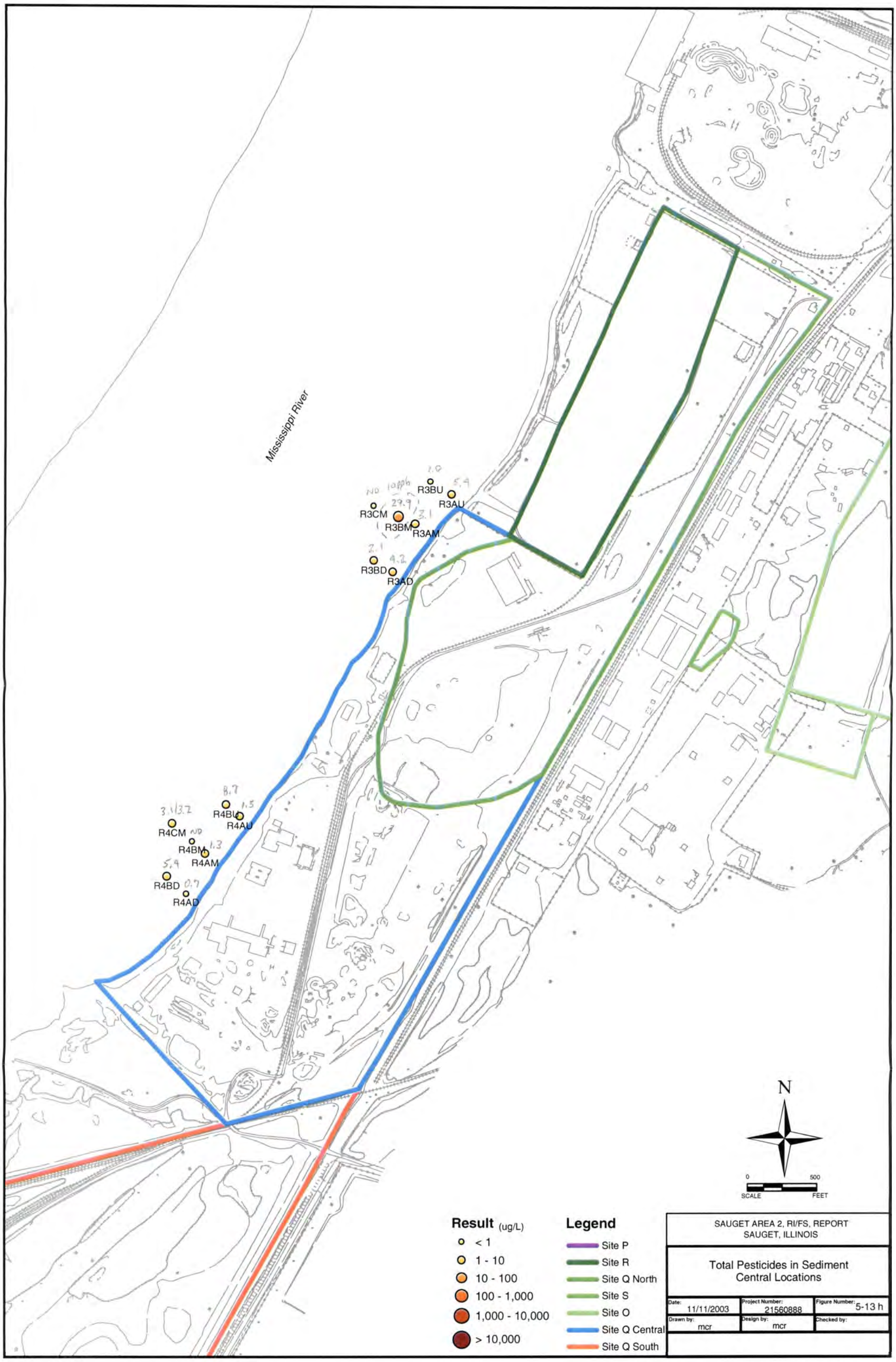

Mississippi River
R5BN
R5AN
R5BU
R5AU
R5CM
R5BM
R5AM
R6CM
R6BU
R6AU
R6BM
R6AM
R6AD
P11S
N
0
500
SCALE
FEET
Result (ug/L)
< 1
1 - 10
10 - 100
100 - 1,000
1,000 - 10,000
> 10,000
Legend
Site P
Site R
Site Q North
Site S
Site O
Site Q Central
Site Q South
SAUGET AREA 2, RI/FS, REPORT
SAUGET, ILLINOIS
Total SVOCs in Sediment
Southern Locations
Date: 11/11/2003
Project Number: 21560888
Figure Number: 5-13 f
Drawn by: mcr
Design by: mcr
Checked by:

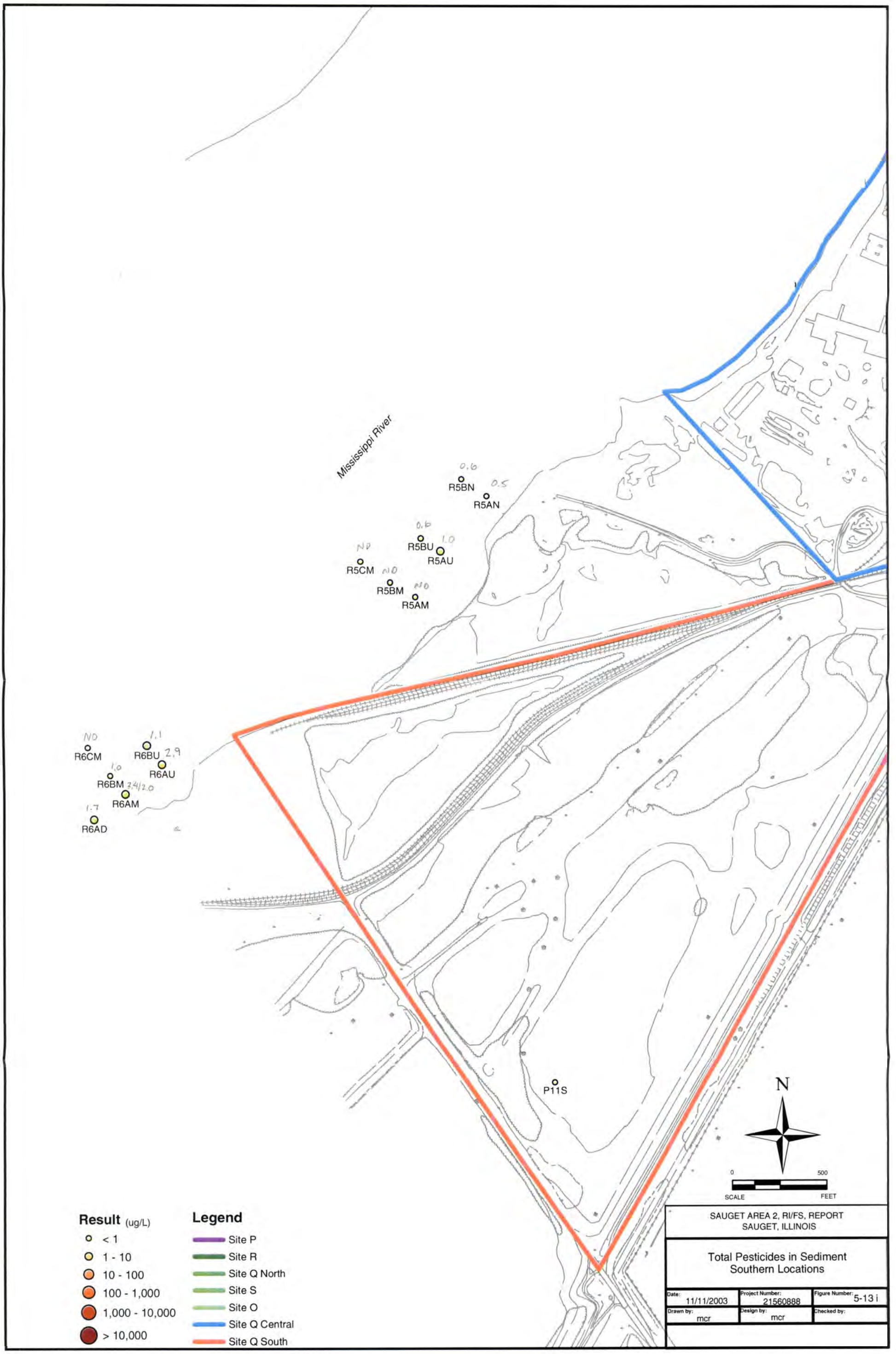


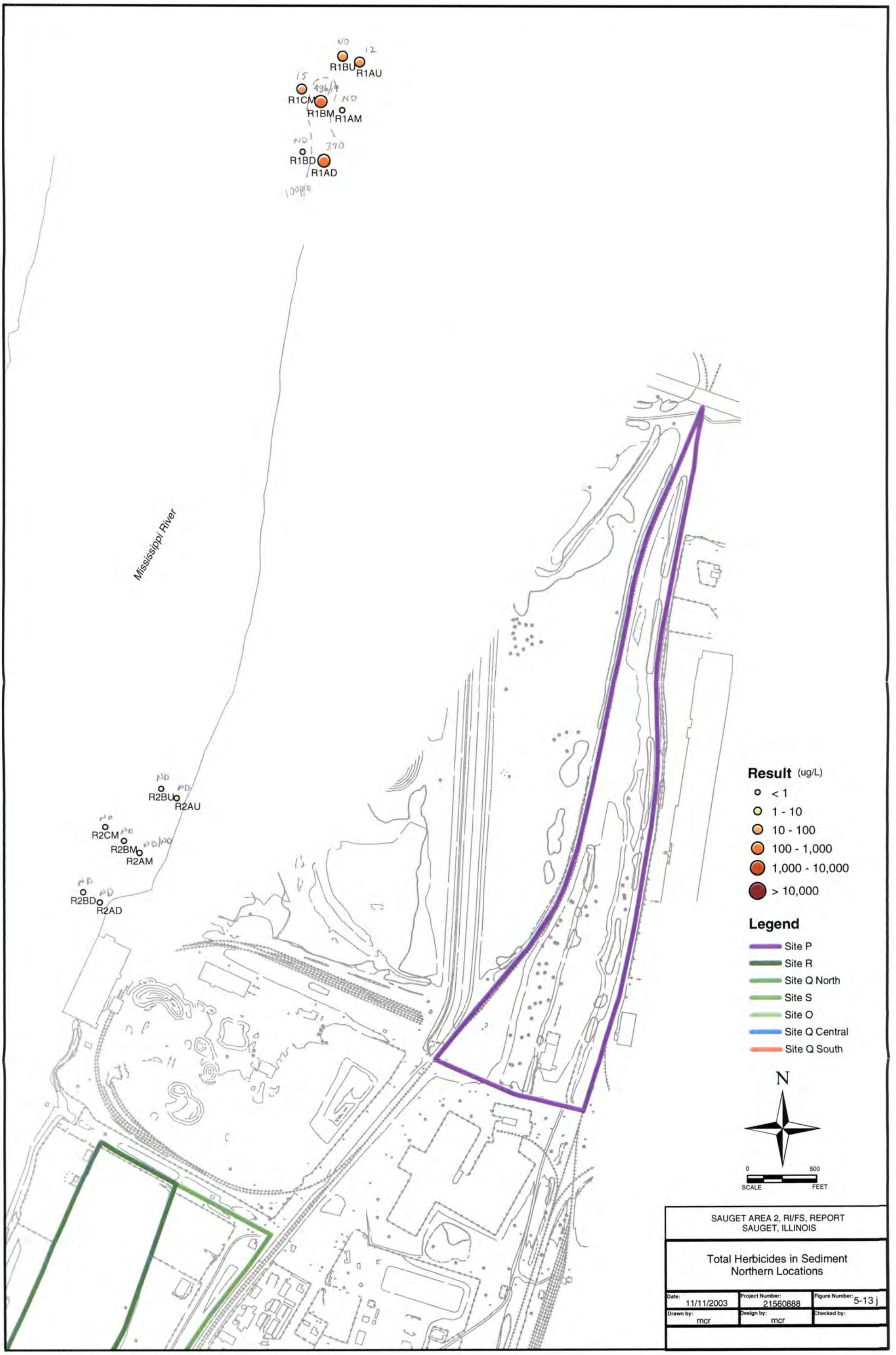
SAUGET AREA 2, RI/FS, REPORT
SAUGET, ILLINOIS

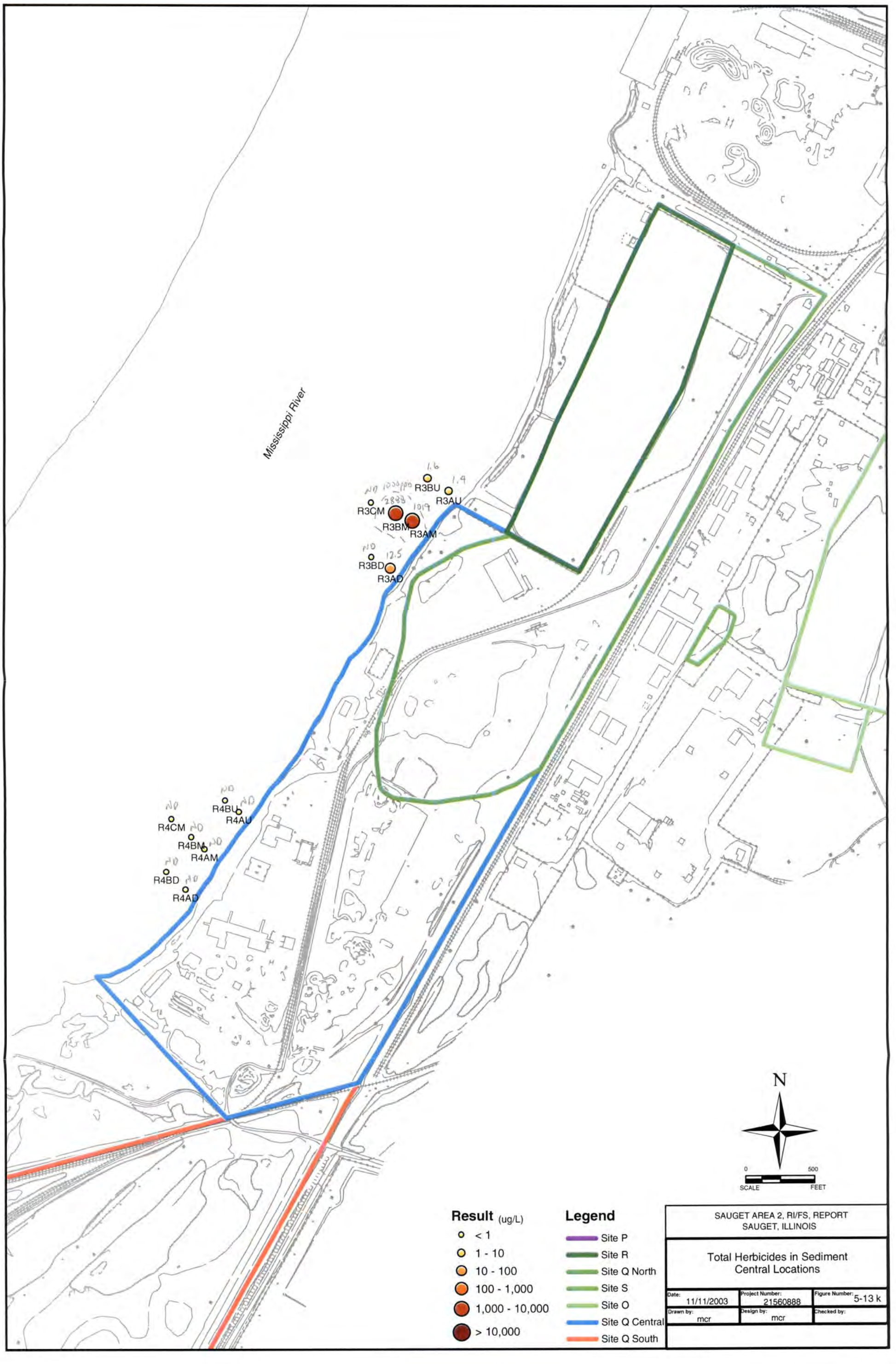
Total Pesticides in Sediment
Northern Locations

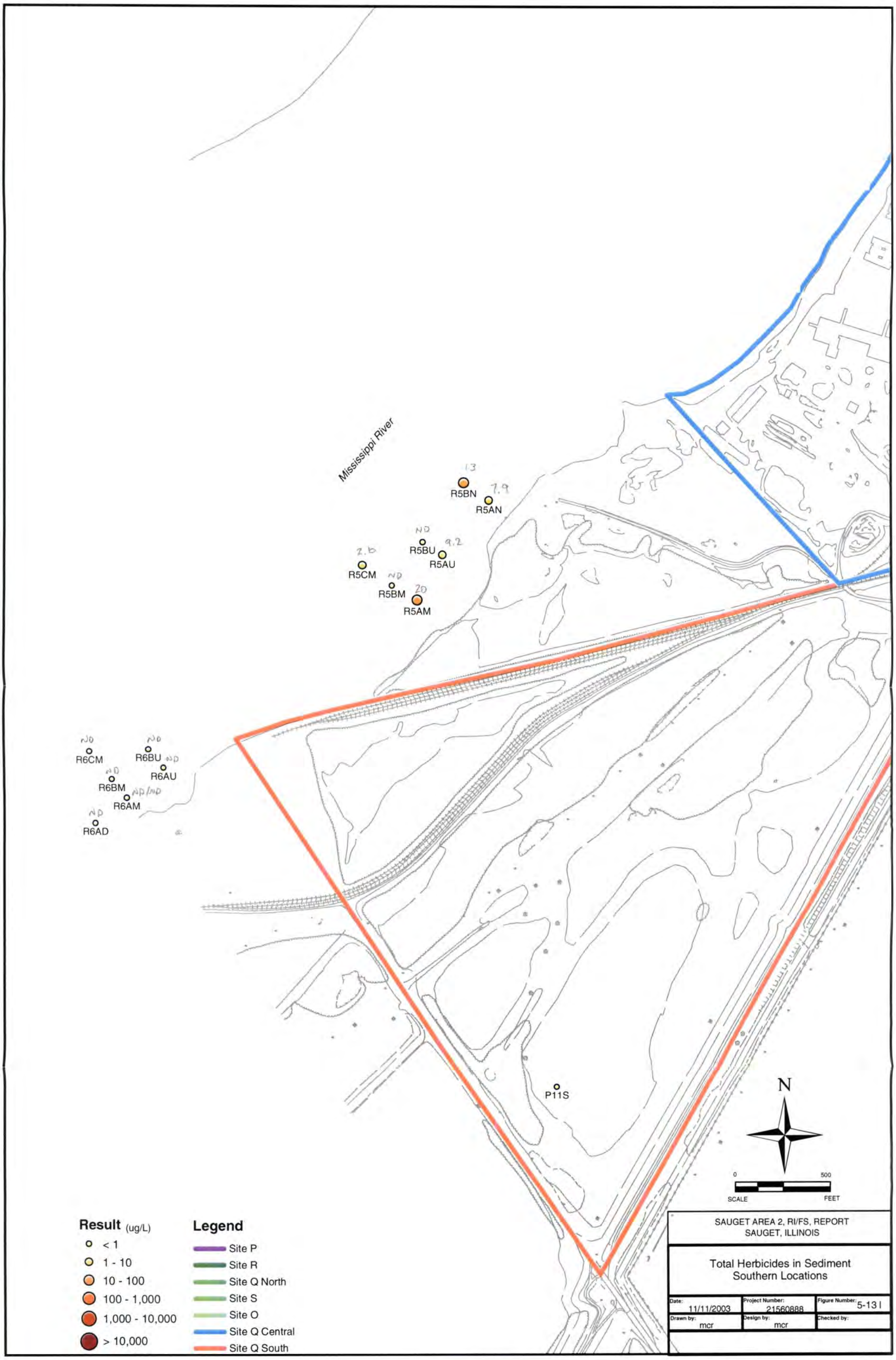
Date:	Project Number:	Figure Number:
11/11/2003	21560888	5-13 g
Drawn by: mcr	Design by: mcr	Checked by:

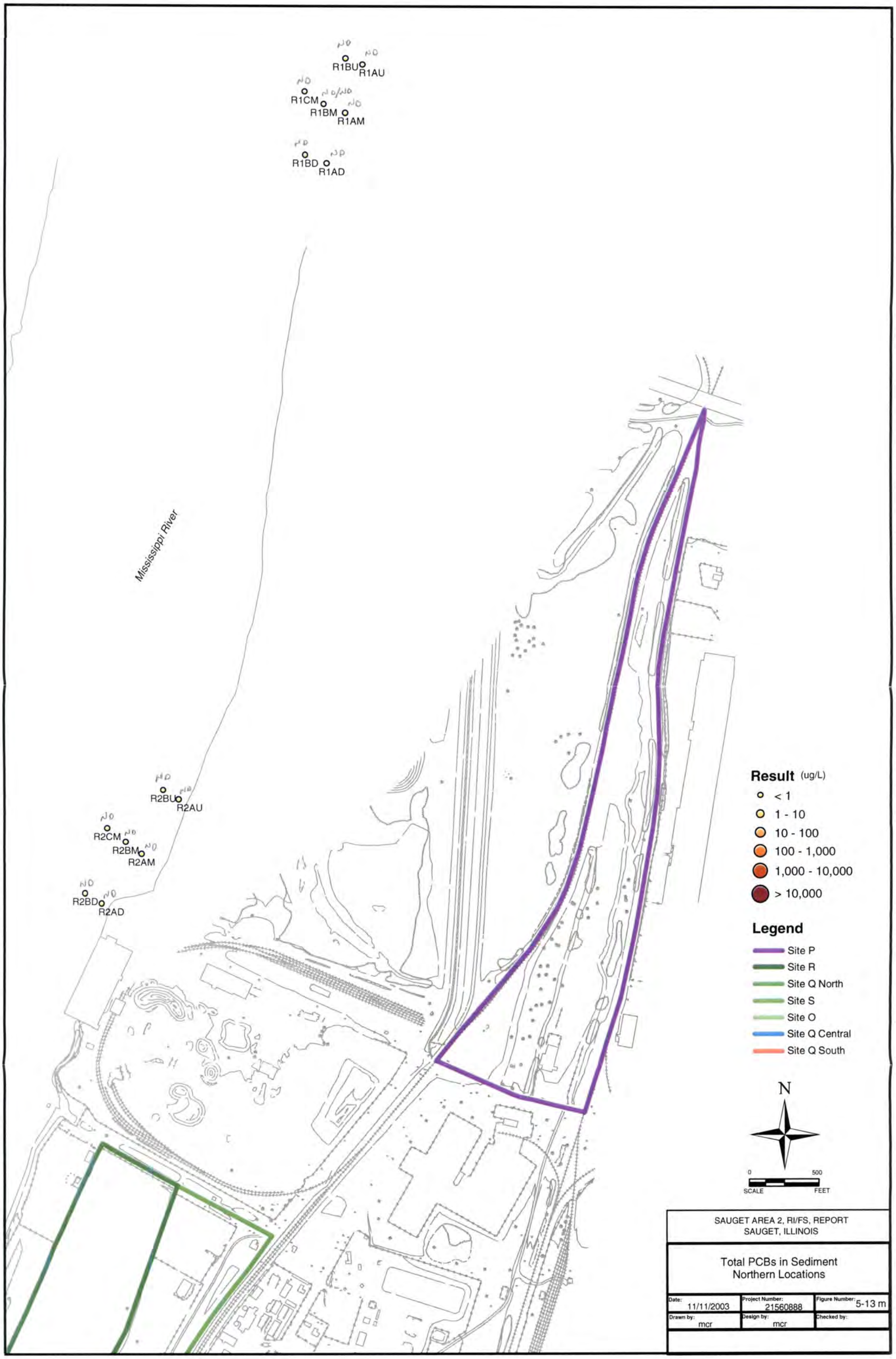

Mississippi River
R3BU
R3AU
R3CM
R3BM
R3AM
R3BD
R3AD
R4BU
R4AU
R4CM
R4BM
R4AM
R4BD
R4AD
N
0
500
SCALE
FEET
Result (ug/L)
< 1
1 - 10
10 - 100
100 - 1,000
1,000 - 10,000
> 10,000
Legend
Site P
Site R
Site Q North
Site S
Site O
Site Q Central
Site Q South
SAUGET AREA 2, RI/FS, REPORT
SAUGET, ILLINOIS
Total Pesticides in Sediment
Central Locations
Date: 11/11/2003
Project Number: 21560888
Figure Number: 5-13 h
Drawn by: mcr
Design by: mcr
Checked by:

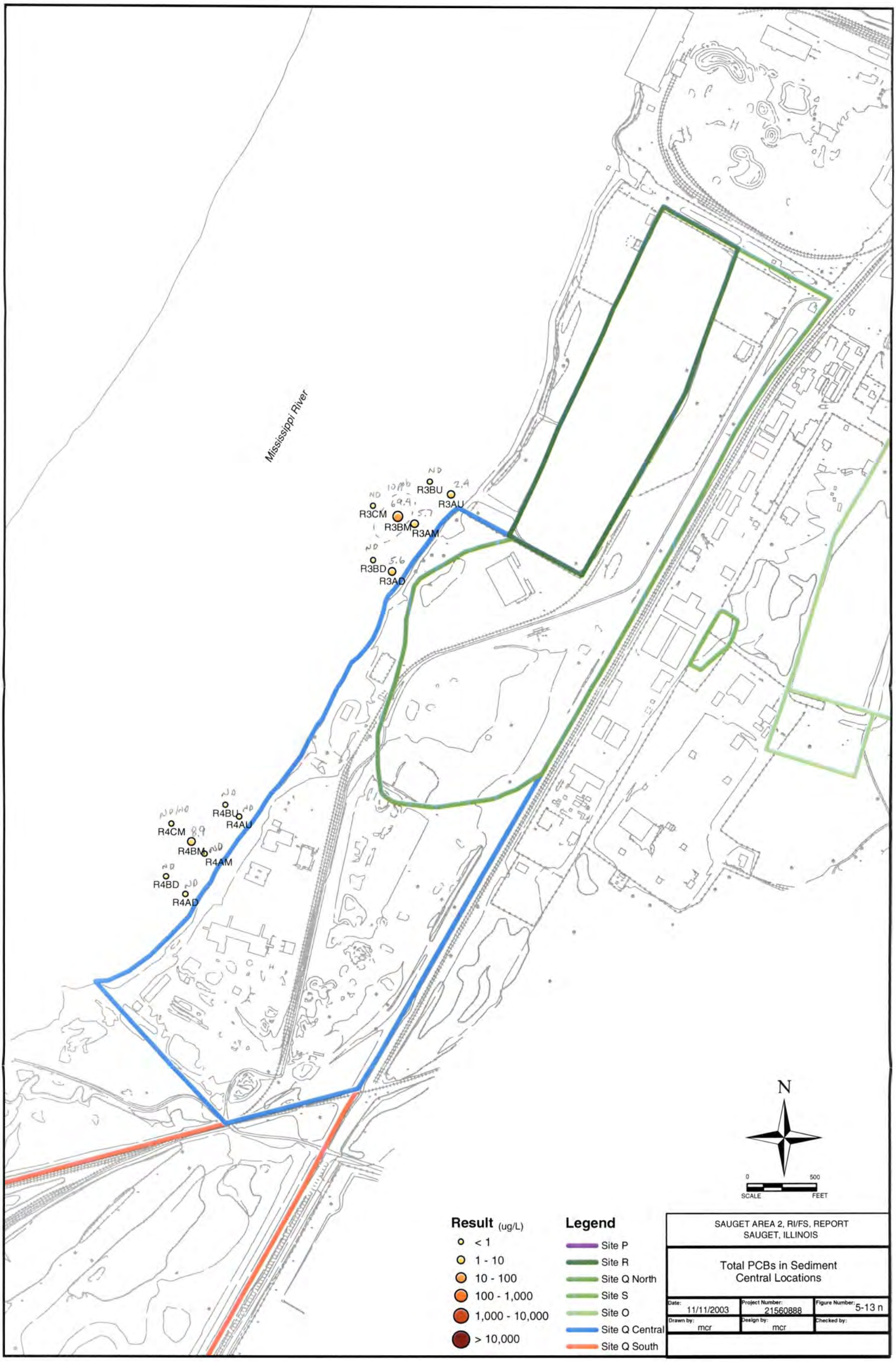

Mississippi River
R5BN
0.6
R5AN
0.5
R5BU
0.6
R5AU
1.0
R5CM
ND
R5BM
ND
R5AM
ND
R6CM
ND
R6BU
1.1
R6AU
2.9
R6BM
1.0
R6AM
3.4/2.0
R6AD
1.7
P11S
N
0
500
SCALE
FEET
Result (ug/L)
< 1
1 - 10
10 - 100
100 - 1,000
1,000 - 10,000
> 10,000
Legend
Site P
Site R
Site Q North
Site S
Site O
Site Q Central
Site Q South
SAUGET AREA 2, RI/FS, REPORT
SAUGET, ILLINOIS
Total Pesticides in Sediment
Southern Locations
Date: 11/11/2003
Project Number: 21560888
Figure Number: 5-13 i
Drawn by: mcr
Design by: mcr
Checked by:

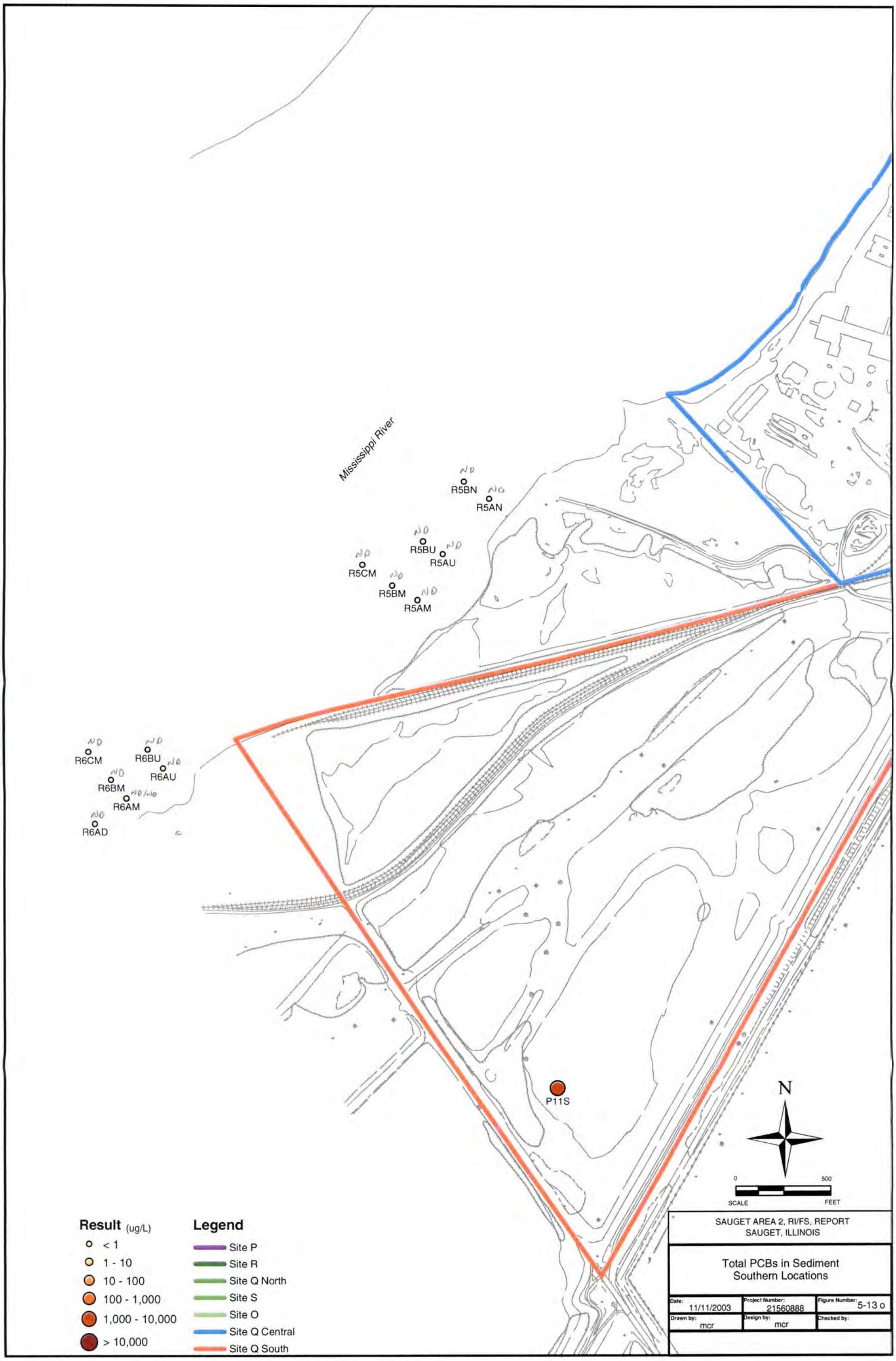

R1BU
R1AU
R1CM
R1BM
R1AM
R1BD
R1AD
Mississippi River
R2BU
R2AU
R2CM
R2BM
R2AM
R2BD
R2AD
Result (ug/L)
< 1
1 - 10
10 - 100
100 - 1,000
1,000 - 10,000
> 10,000
Legend
Site P
Site R
Site Q North
Site S
Site O
Site Q Central
Site Q South
N
0
500
SCALE
FEET
SAUGET AREA 2, RI/FS, REPORT
SAUGET, ILLINOIS
Total Herbicides in Sediment
Northern Locations
Date: 11/11/2003
Project Number: 21560888
Figure Number: 5-13 j
Drawn by: mcr
Design by: mcr
Checked by:

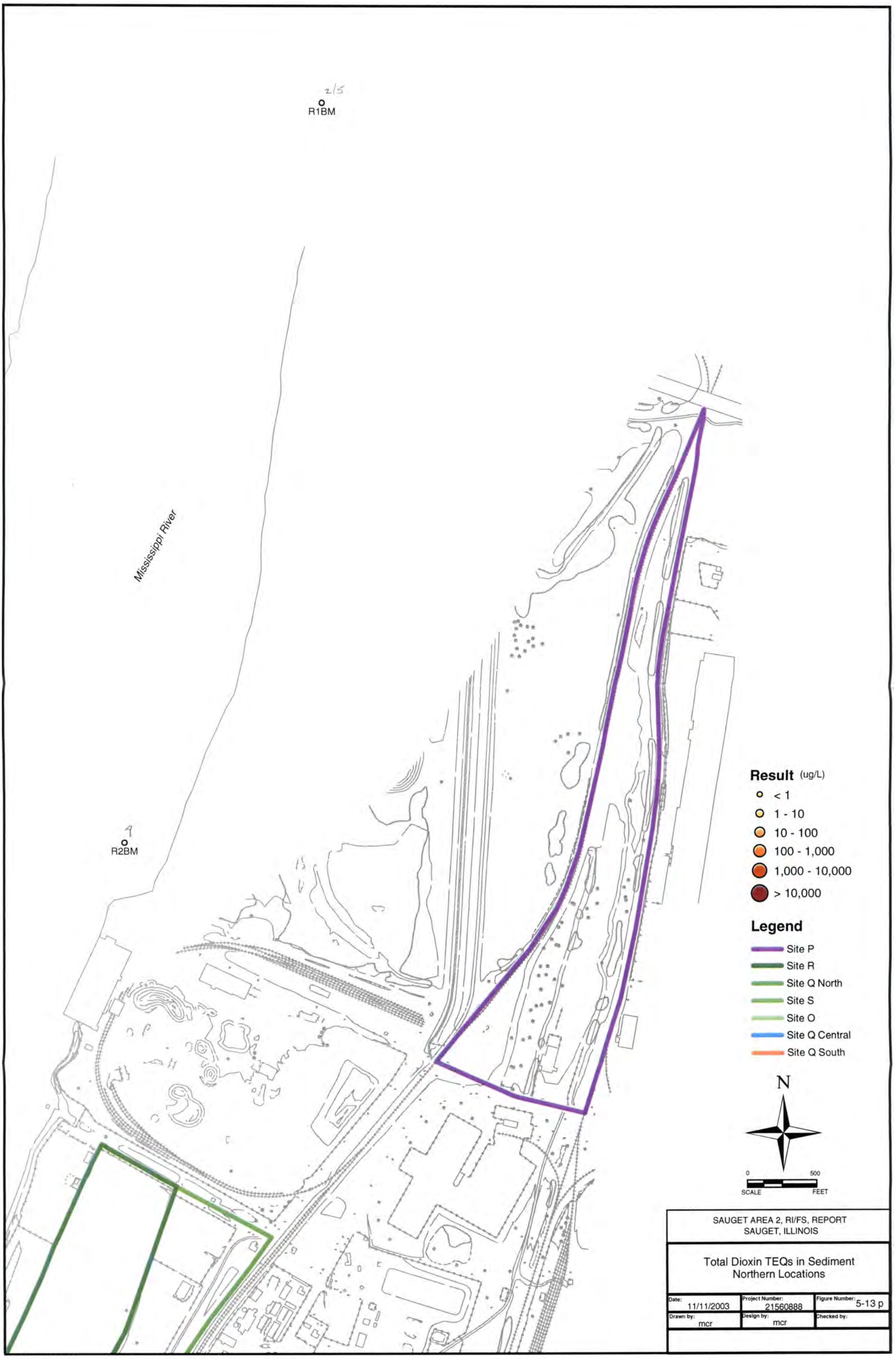

Mississippi River
R3BU
R3AU
R3CM
R3BM
R3AM
R3BD
R3AD
R4BU
R4AU
R4CM
R4BM
R4AM
R4BD
R4AD
N
0
500
SCALE
FEET
Result (ug/L)
< 1
1 - 10
10 - 100
100 - 1,000
1,000 - 10,000
> 10,000
Legend
Site P
Site R
Site Q North
Site S
Site O
Site Q Central
Site Q South
SAUGET AREA 2, RI/FS, REPORT
SAUGET, ILLINOIS
Total Herbicides in Sediment
Central Locations
Date: 11/11/2003
Project Number: 21560888
Figure Number: 5-13 k
Drawn by: mcr
Design by: mcr
Checked by:

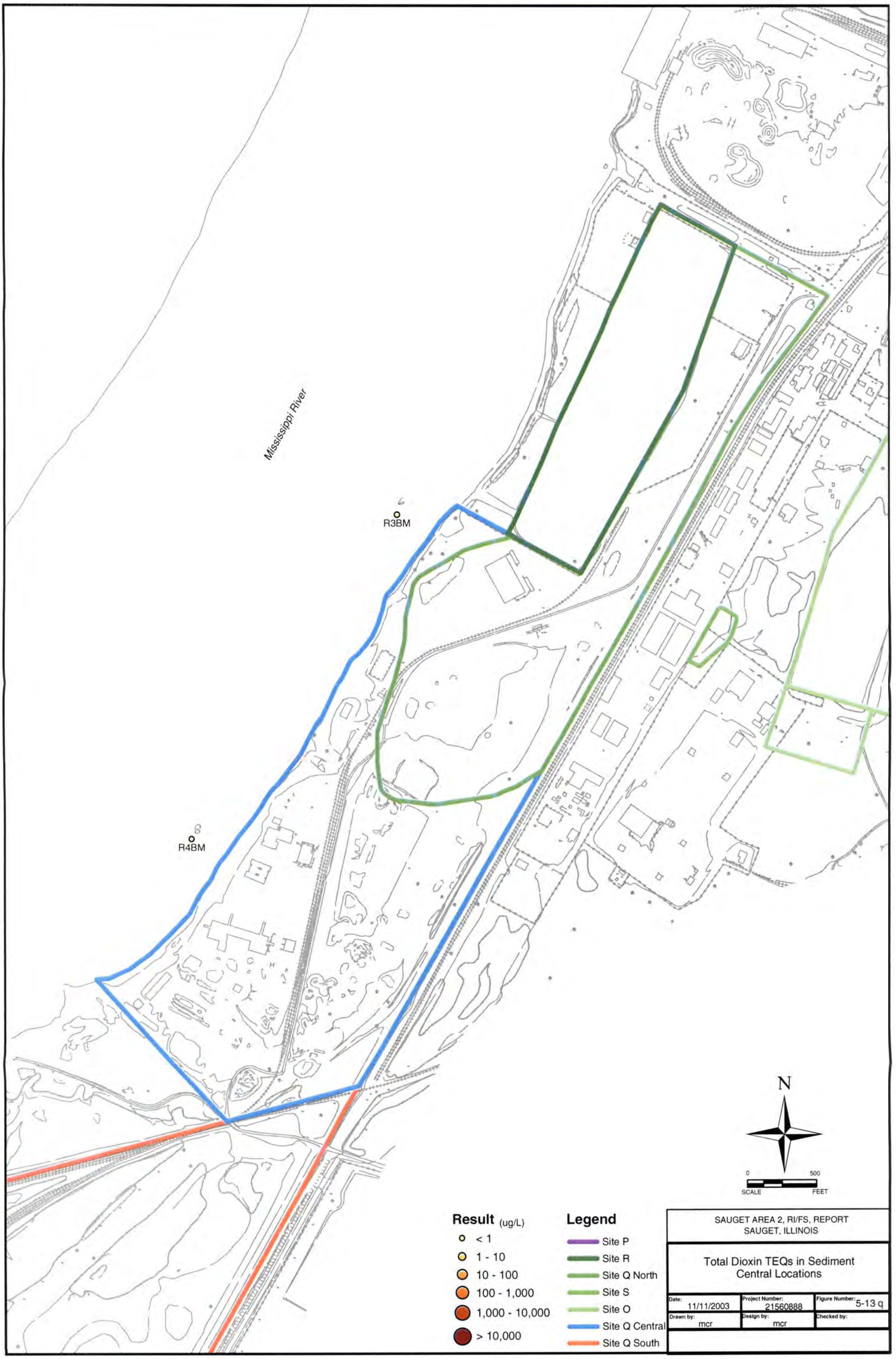

Mississippi River
13
R5BN
7.9
R5AN
ND
R5BU
9.2
R5AU
2.6
R5CM
ND
R5BM
20
R5AM
ND
R6CM
ND
R6BU
ND
R6AU
ND
R6BM
ND/ND
R6AM
ND
R6AD
P11S
N
0
500
SCALE
FEET
Result (ug/L)
< 1
1 - 10
10 - 100
100 - 1,000
1,000 - 10,000
> 10,000
Legend
Site P
Site R
Site Q North
Site S
Site O
Site Q Central
Site Q South
SAUGET AREA 2, RI/FS, REPORT
SAUGET, ILLINOIS
Total Herbicides in Sediment
Southern Locations
Date: 11/11/2003
Project Number: 21560888
Figure Number: 5-13 I
Drawn by: mcr
Design by: mcr
Checked by:

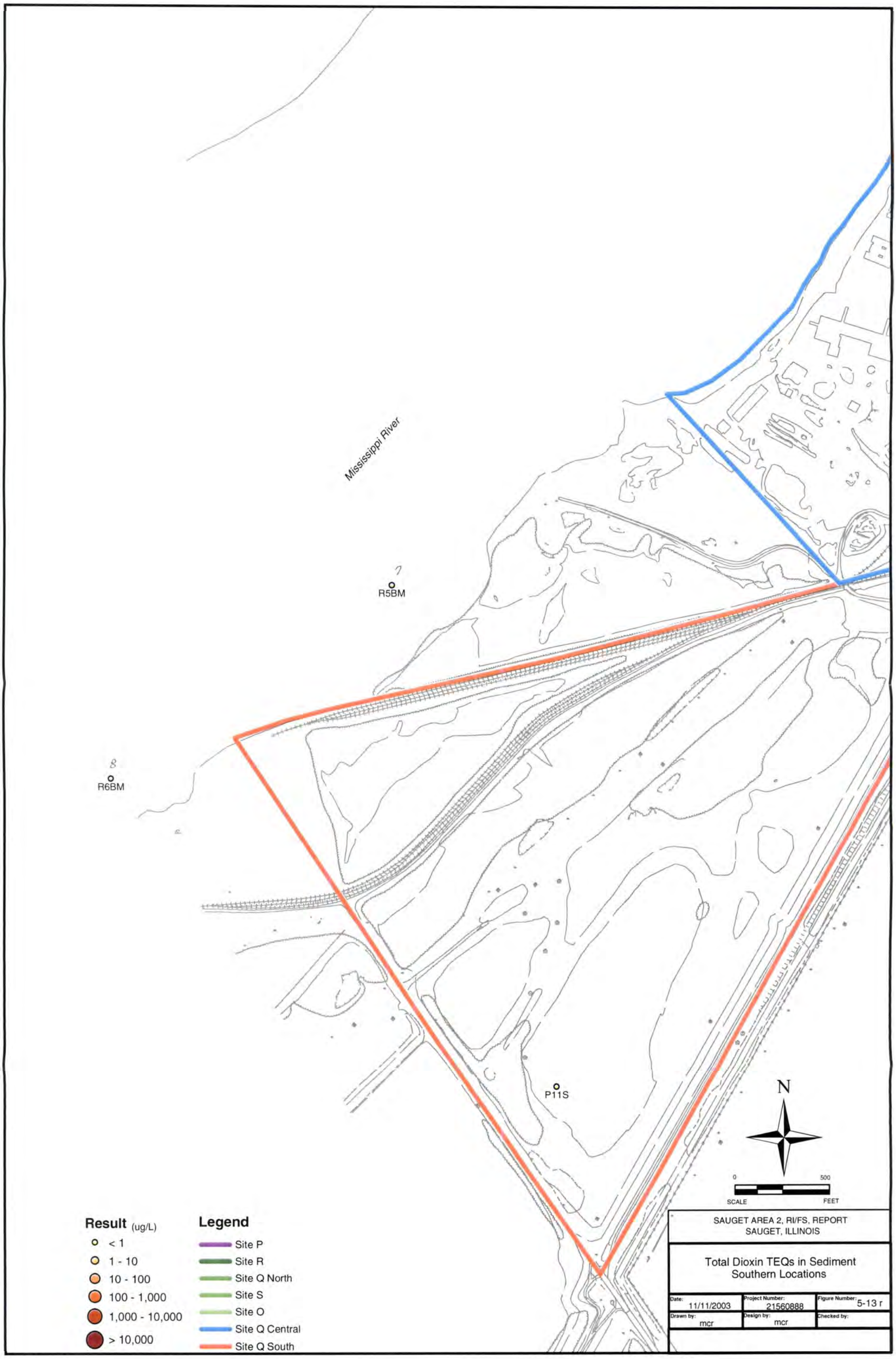

R1BU
R1AU
R1CM
R1BM
R1AM
R1BD
R1AD
Mississippi River
R2BU
R2AU
R2CM
R2BM
R2AM
R2BD
R2AD
Result (ug/L)
< 1
1 - 10
10 - 100
100 - 1,000
1,000 - 10,000
> 10,000
Legend
Site P
Site R
Site Q North
Site S
Site O
Site Q Central
Site Q South
N
0
500
SCALE
FEET
SAUGET AREA 2, RI/FS, REPORT
SAUGET, ILLINOIS
Total PCBs in Sediment
Northern Locations
Date: 11/11/2003
Project Number: 21560888
Figure Number: 5-13 m
Drawn by: mcr
Design by: mcr
Checked by:

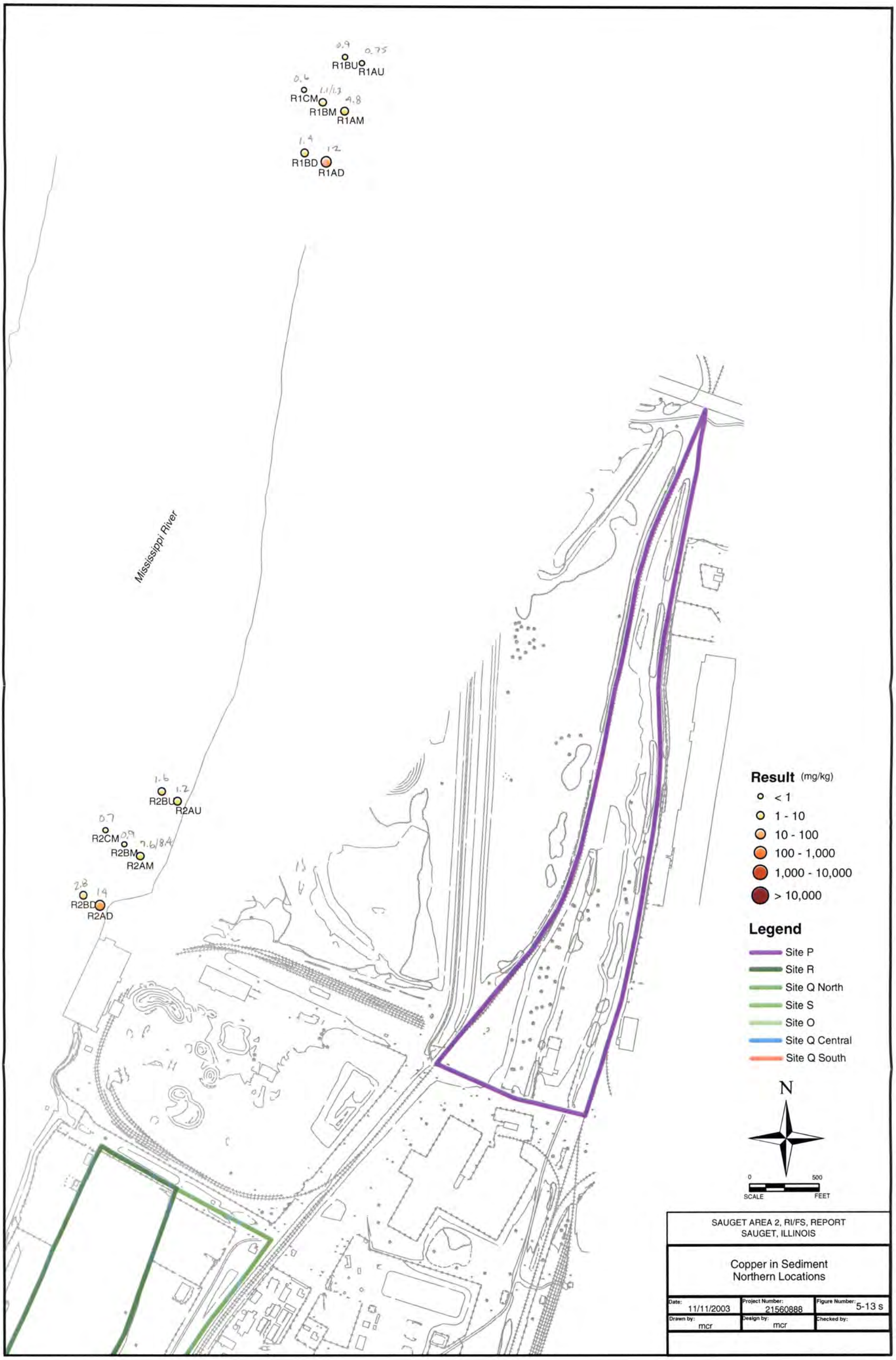

Mississippi River
R3BU
R3AU
R3CM
R3BM
R3AM
R3BD
R3AD
R4BU
R4AU
R4CM
R4BM
R4AM
R4BD
R4AD
N
0
500
SCALE
FEET
Result (ug/L)
< 1
1 - 10
10 - 100
100 - 1,000
1,000 - 10,000
> 10,000
Legend
Site P
Site R
Site Q North
Site S
Site O
Site Q Central
Site Q South
SAUGET AREA 2, RI/FS, REPORT
SAUGET, ILLINOIS
Total PCBs in Sediment
Central Locations
Date: 11/11/2003
Project Number: 21560888
Figure Number: 5-13 n
Drawn by: mcr
Design by: mcr
Checked by:

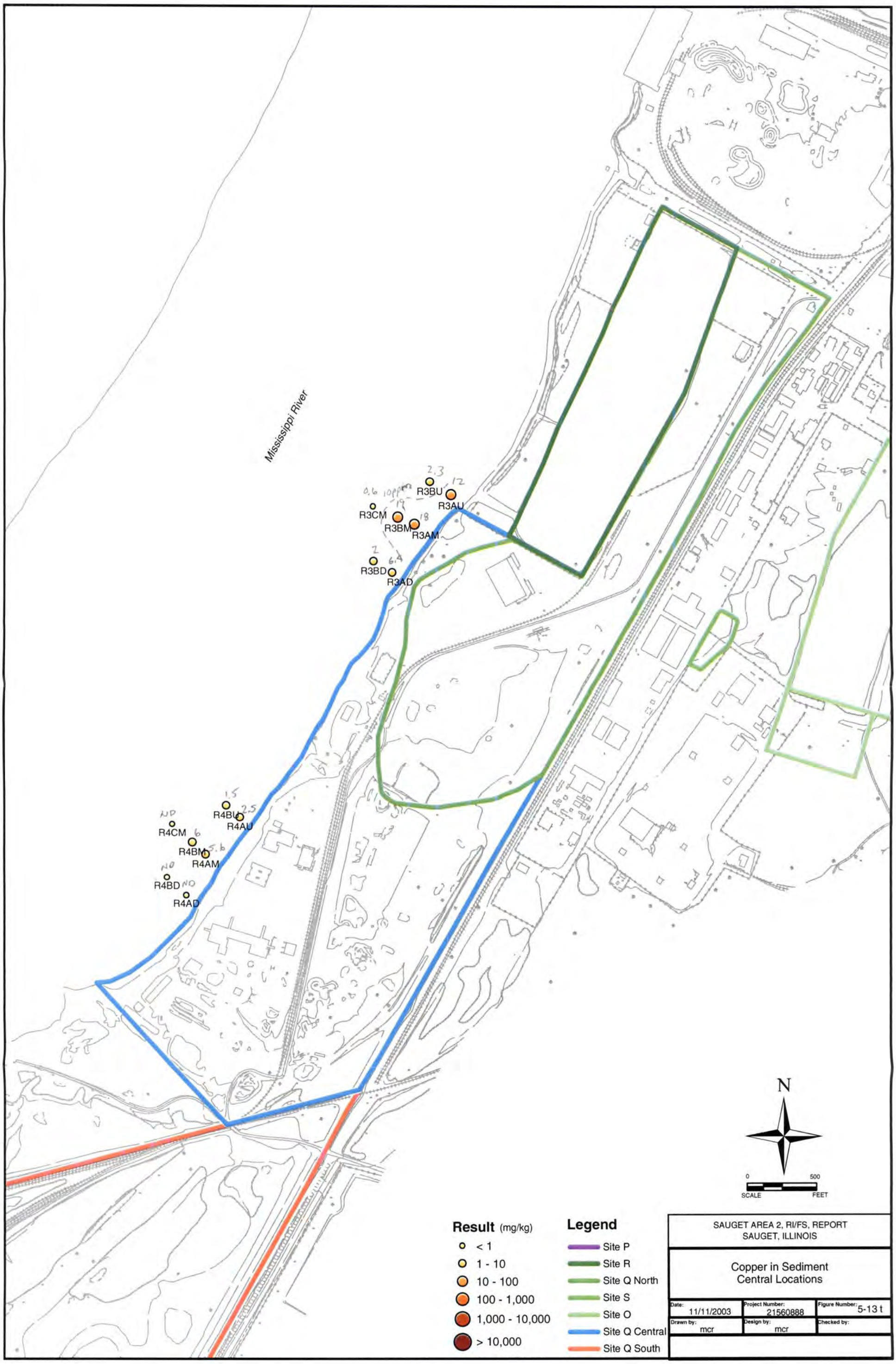

Mississippi River
R5BN
R5AN
R5BU
R5AU
R5CM
R5BM
R5AM
R6CM
R6BU
R6AU
R6BM
R6AM
R6AD
P11S
N
0
500
SCALE
FEET
Result (ug/L)
< 1
1 - 10
10 - 100
100 - 1,000
1,000 - 10,000
> 10,000
Legend
Site P
Site R
Site Q North
Site S
Site O
Site Q Central
Site Q South
SAUGET AREA 2, RI/FS, REPORT
SAUGET, ILLINOIS
Total PCBs in Sediment
Southern Locations
Date: 11/11/2003
Project Number: 21560888
Figure Number: 5-13 o
Drawn by: mcr
Design by: mcr
Checked by:

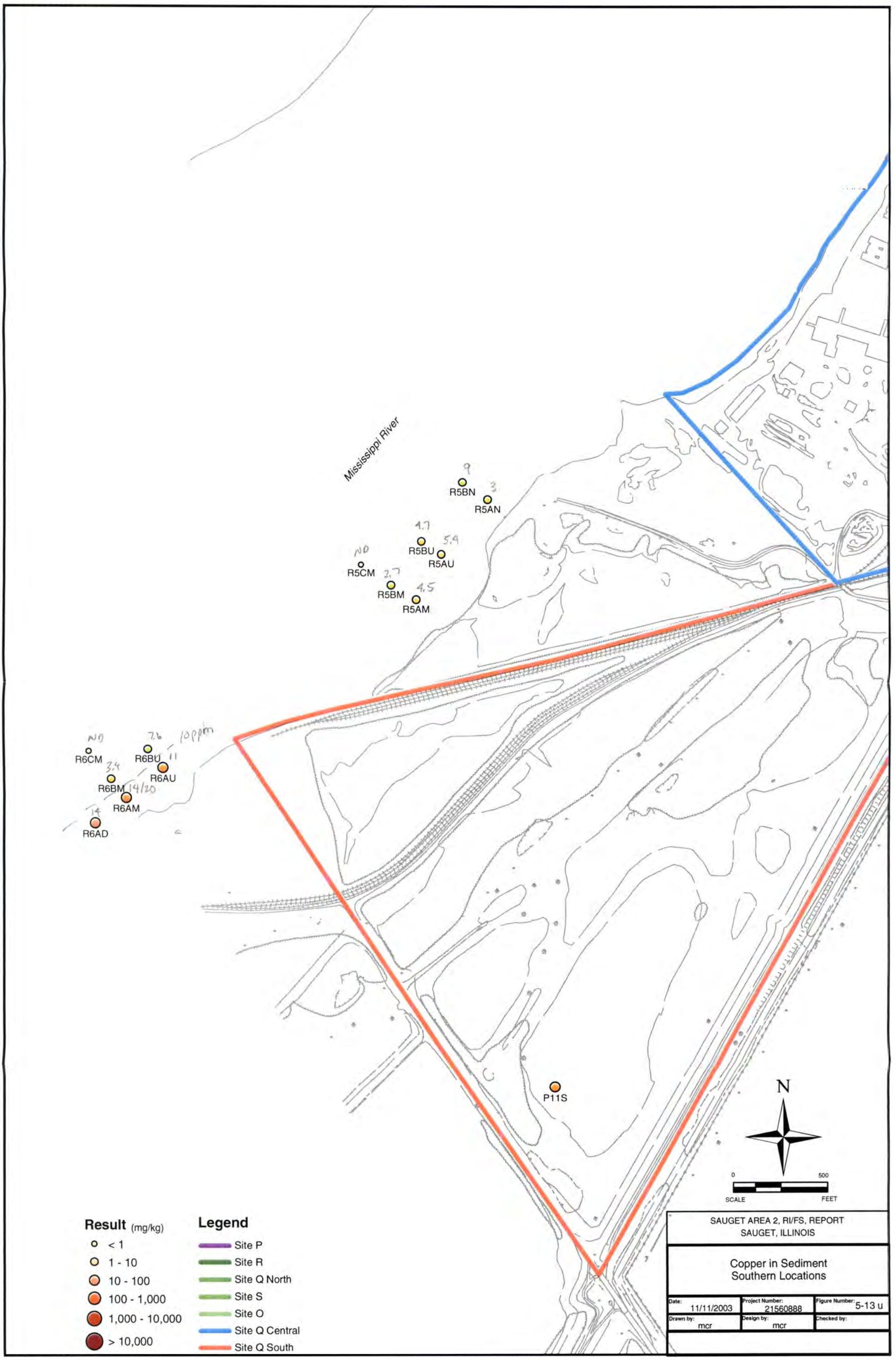

R1BM
R2BM
Mississippi River
Result (ug/L)
< 1
1 - 10
10 - 100
100 - 1,000
1,000 - 10,000
> 10,000
Legend
Site P
Site R
Site Q North
Site S
Site O
Site Q Central
Site Q South
N
0
500
SCALE
FEET
SAUGET AREA 2, RI/FS, REPORT
SAUGET, ILLINOIS
Total Dioxin TEQs in Sediment
Northern Locations
Date: 11/11/2003
Project Number: 21560888
Figure Number: 5-13 p
Drawn by: mcr
Design by: mcr
Checked by:

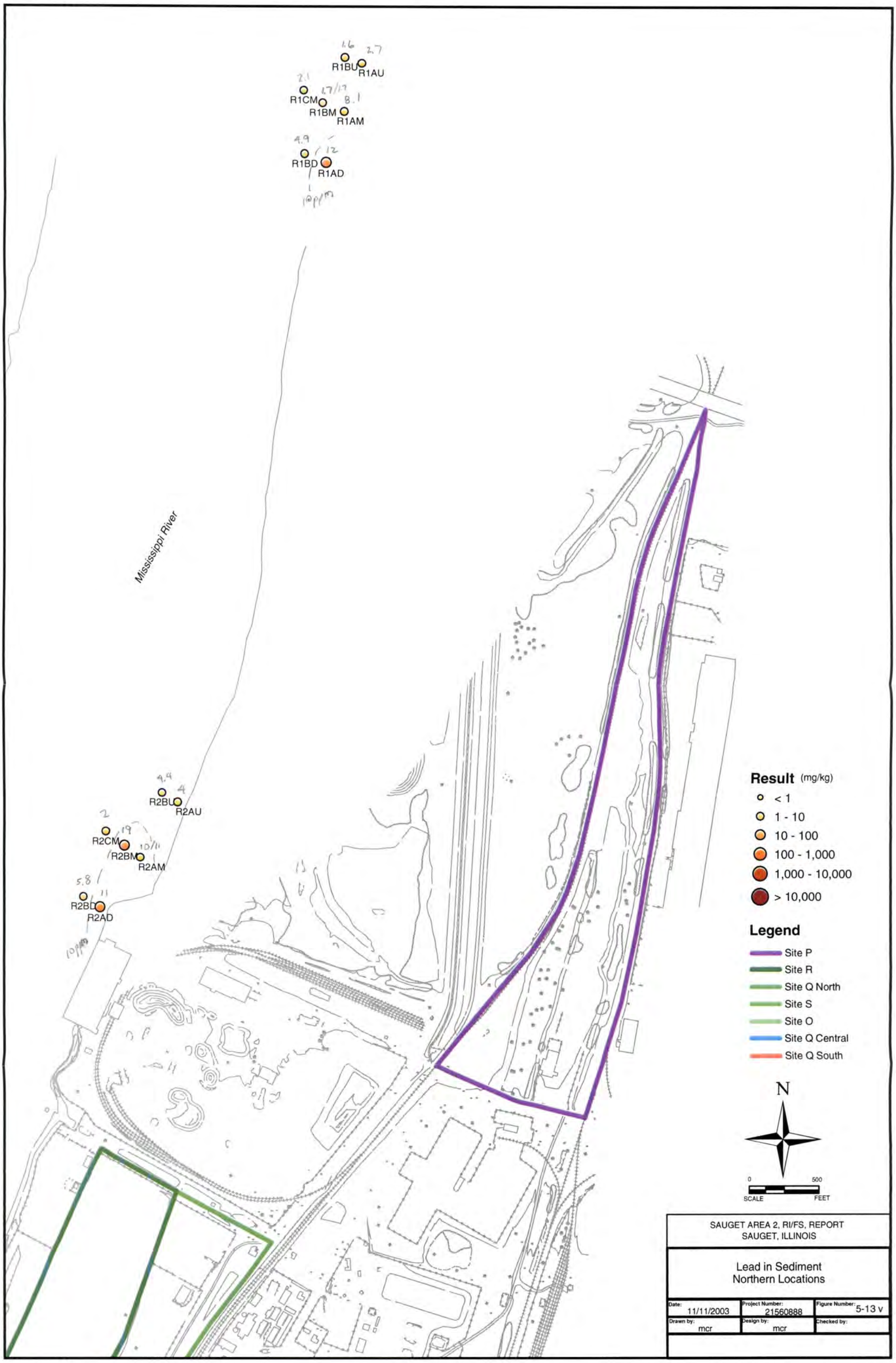

Mississippi River
R3BM
R4BM
N
0
500
SCALE
FEET
Result (ug/L)
< 1
1 - 10
10 - 100
100 - 1,000
1,000 - 10,000
> 10,000
Legend
Site P
Site R
Site Q North
Site S
Site O
Site Q Central
Site Q South
SAUGET AREA 2, RI/FS, REPORT
SAUGET, ILLINOIS
Total Dioxin TEQs in Sediment
Central Locations
Date: 11/11/2003
Project Number: 21560888
Figure Number: 5-13 q
Drawn by: mcr
Design by: mcr
Checked by:

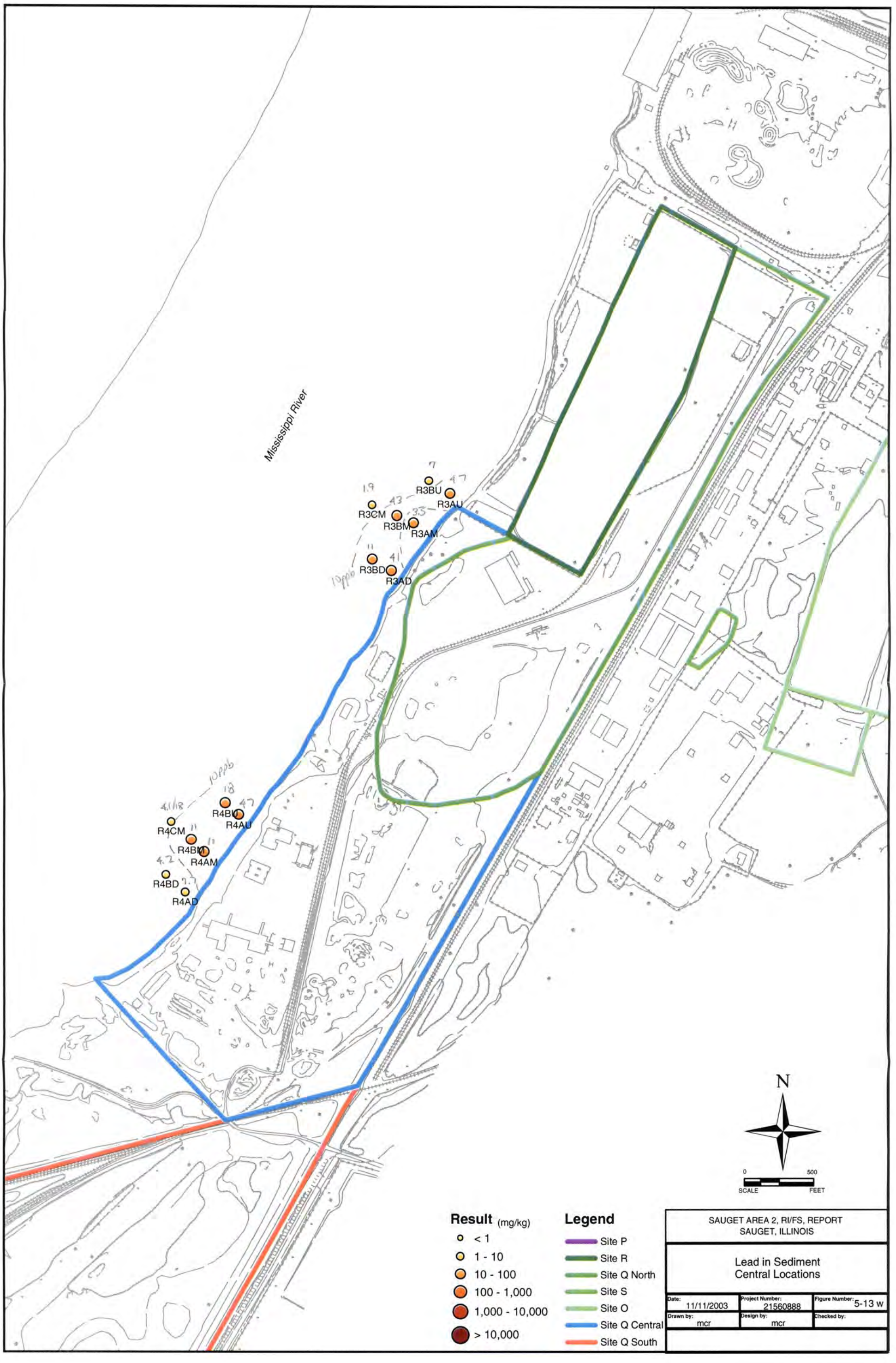

Mississippi River
R5BM
R6BM
P11S
N
0
500
SCALE
FEET
Result (ug/L)
< 1
1 - 10
10 - 100
100 - 1,000
1,000 - 10,000
> 10,000
Legend
Site P
Site R
Site Q North
Site S
Site O
Site Q Central
Site Q South
SAUGET AREA 2, RI/FS, REPORT
SAUGET, ILLINOIS
Total Dioxin TEQs in Sediment
Southern Locations
Date: 11/11/2003
Project Number: 21560888
Figure Number: 5-13 r
Drawn by: mcr
Design by: mcr
Checked by:

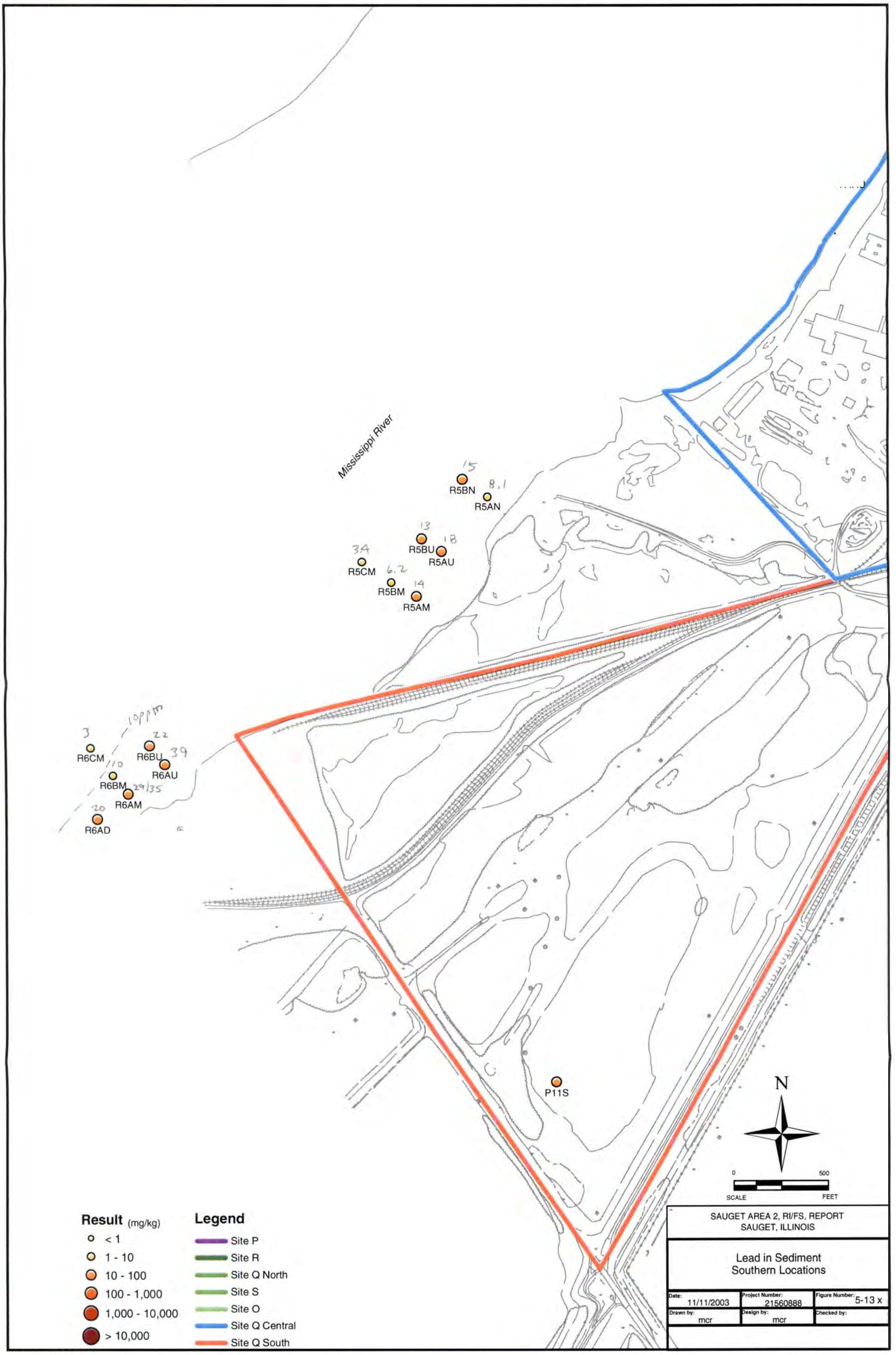

0.9
0.75
R1BU
R1AU
0.6
1.1/1.3
4.8
R1CM
R1BM
R1AM
1.4
12
R1BD
R1AD
Mississippi River
1.6
1.2
R2BU
R2AU
0.7
0.9
7.6/8.4
R2CM
R2BM
R2AM
2.8
14
R2BD
R2AD
Result (mg/kg)
< 1
1 - 10
10 - 100
100 - 1,000
1,000 - 10,000
> 10,000
Legend
Site P
Site R
Site Q North
Site S
Site O
Site Q Central
Site Q South
N
0
500
SCALE
FEET
SAUGET AREA 2, RI/FS, REPORT
SAUGET, ILLINOIS
Copper in Sediment
Northern Locations
Date: 11/11/2003
Project Number: 21560888
Figure Number: 5-13 s
Drawn by: mcr
Design by: mcr
Checked by:

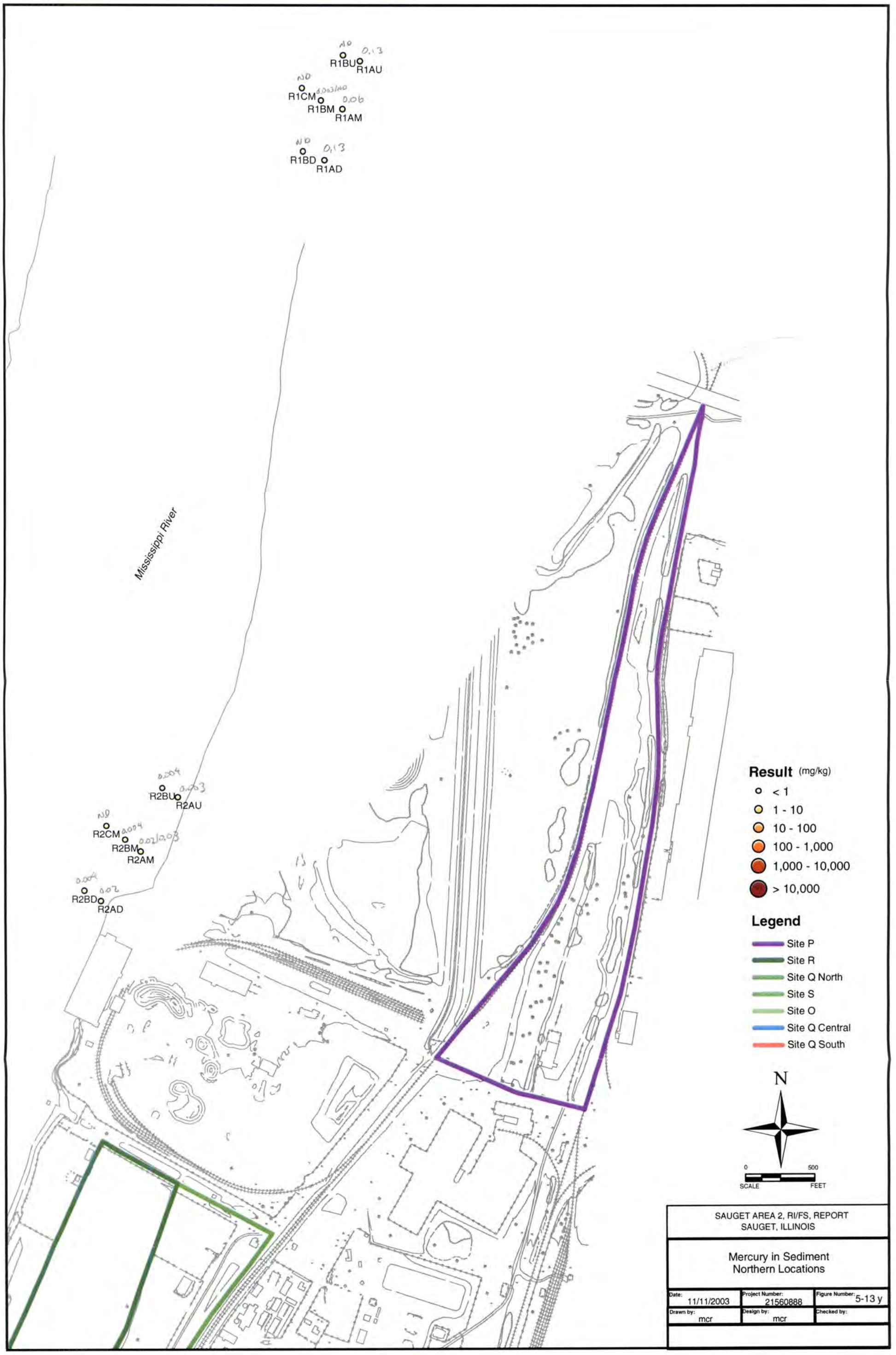

Mississippi River
R3BU
R3AU
R3CM
R3BM
R3AM
R3BD
R3AD
R4BU
R4AU
R4CM
R4BM
R4AM
R4BD
R4AD
N
0
500
SCALE
FEET
Result (mg/kg)
< 1
1 - 10
10 - 100
100 - 1,000
1,000 - 10,000
> 10,000
Legend
Site P
Site R
Site Q North
Site S
Site O
Site Q Central
Site Q South
SAUGET AREA 2, RI/FS, REPORT
SAUGET, ILLINOIS
Copper in Sediment
Central Locations
Date: 11/11/2003
Project Number: 21560888
Figure Number: 5-13 t
Drawn by: mcr
Design by: mcr
Checked by:

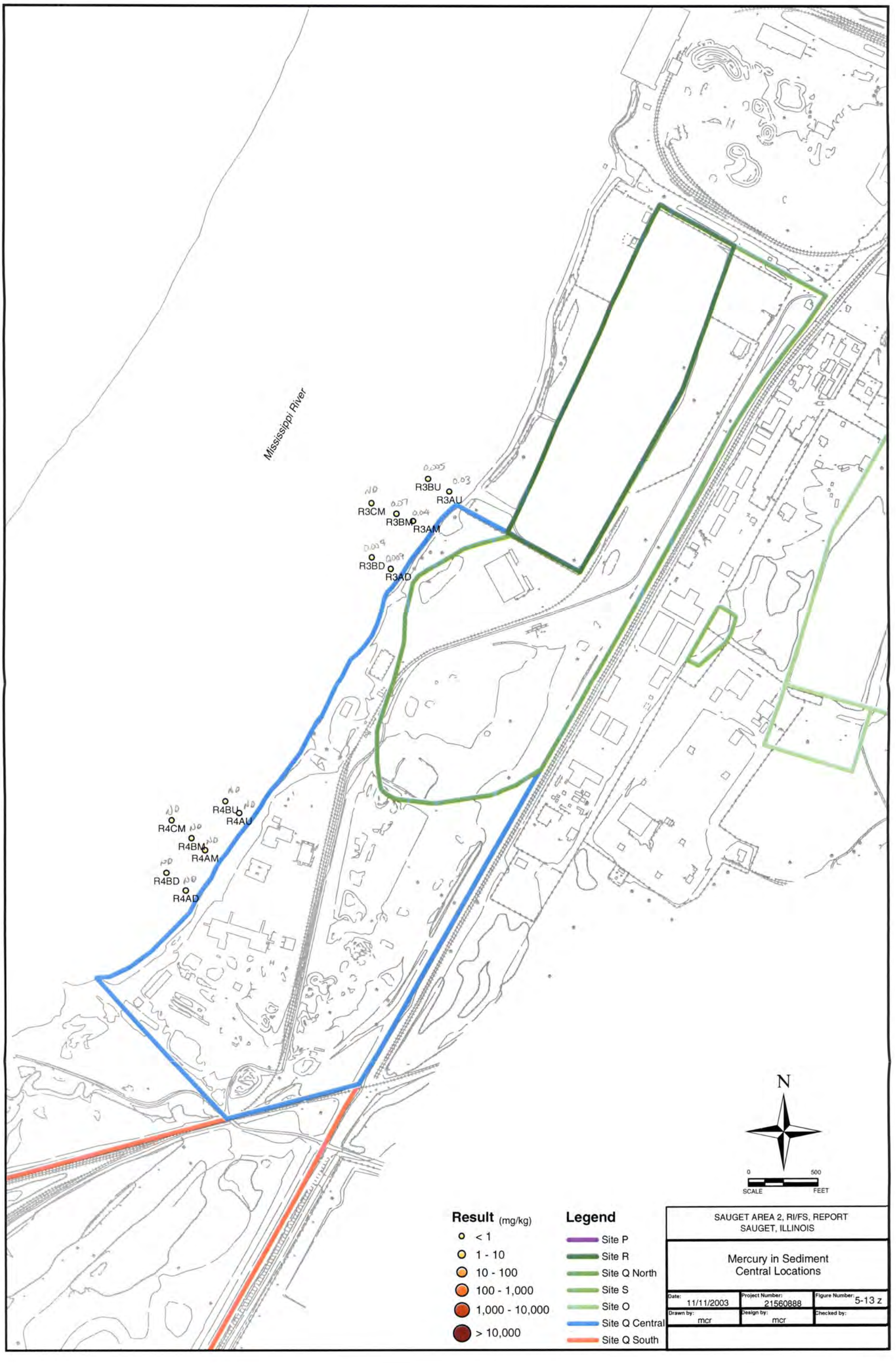

Mississippi River
R5BN
R5AN
R5BU
R5AU
R5CM
R5BM
R5AM
R6CM
R6BU
R6AU
R6BM
R6AM
R6AD
P11S
N
0
500
SCALE
FEET
Result (mg/kg)
< 1
1 - 10
10 - 100
100 - 1,000
1,000 - 10,000
> 10,000
Legend
Site P
Site R
Site Q North
Site S
Site O
Site Q Central
Site Q South
SAUGET AREA 2, RI/FS, REPORT
SAUGET, ILLINOIS
Copper in Sediment
Southern Locations
Date: 11/11/2003
Project Number: 21560888
Figure Number: 5-13 u
Drawn by: mcr
Design by: mcr
Checked by:

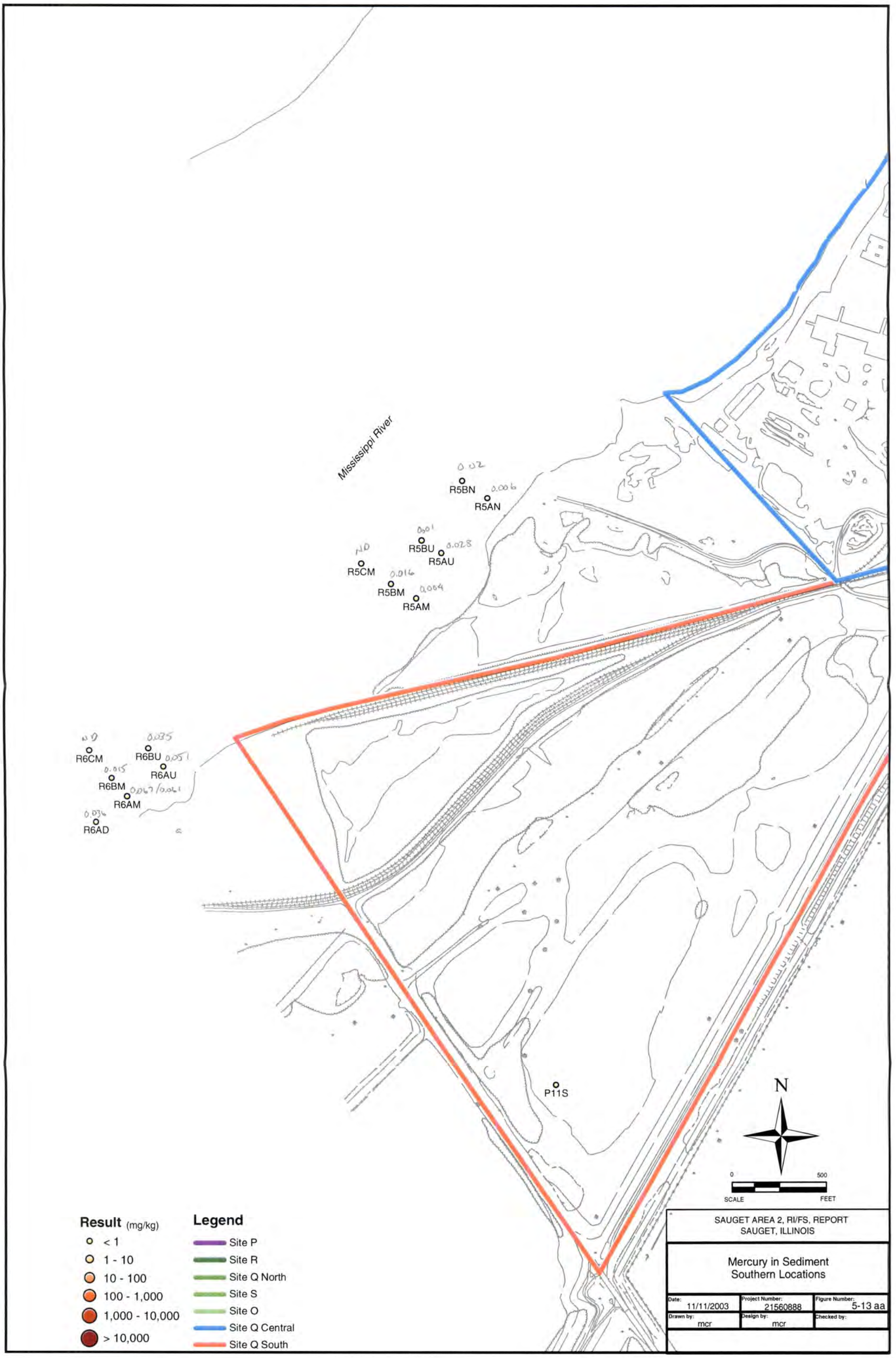

R1BU
R1AU
R1CM
R1BM
R1AM
R1BD
R1AD
Mississippi River
R2BU
R2AU
R2CM
R2BM
R2AM
R2BD
R2AD
Result (mg/kg)
< 1
1 - 10
10 - 100
100 - 1,000
1,000 - 10,000
> 10,000
Legend
Site P
Site R
Site Q North
Site S
Site O
Site Q Central
Site Q South
N
0
500
SCALE
FEET
SAUGET AREA 2, RI/FS, REPORT
SAUGET, ILLINOIS
Lead in Sediment
Northern Locations
Date: 11/11/2003
Project Number: 21560888
Figure Number: 5-13 v
Drawn by: mcr
Design by: mcr
Checked by:

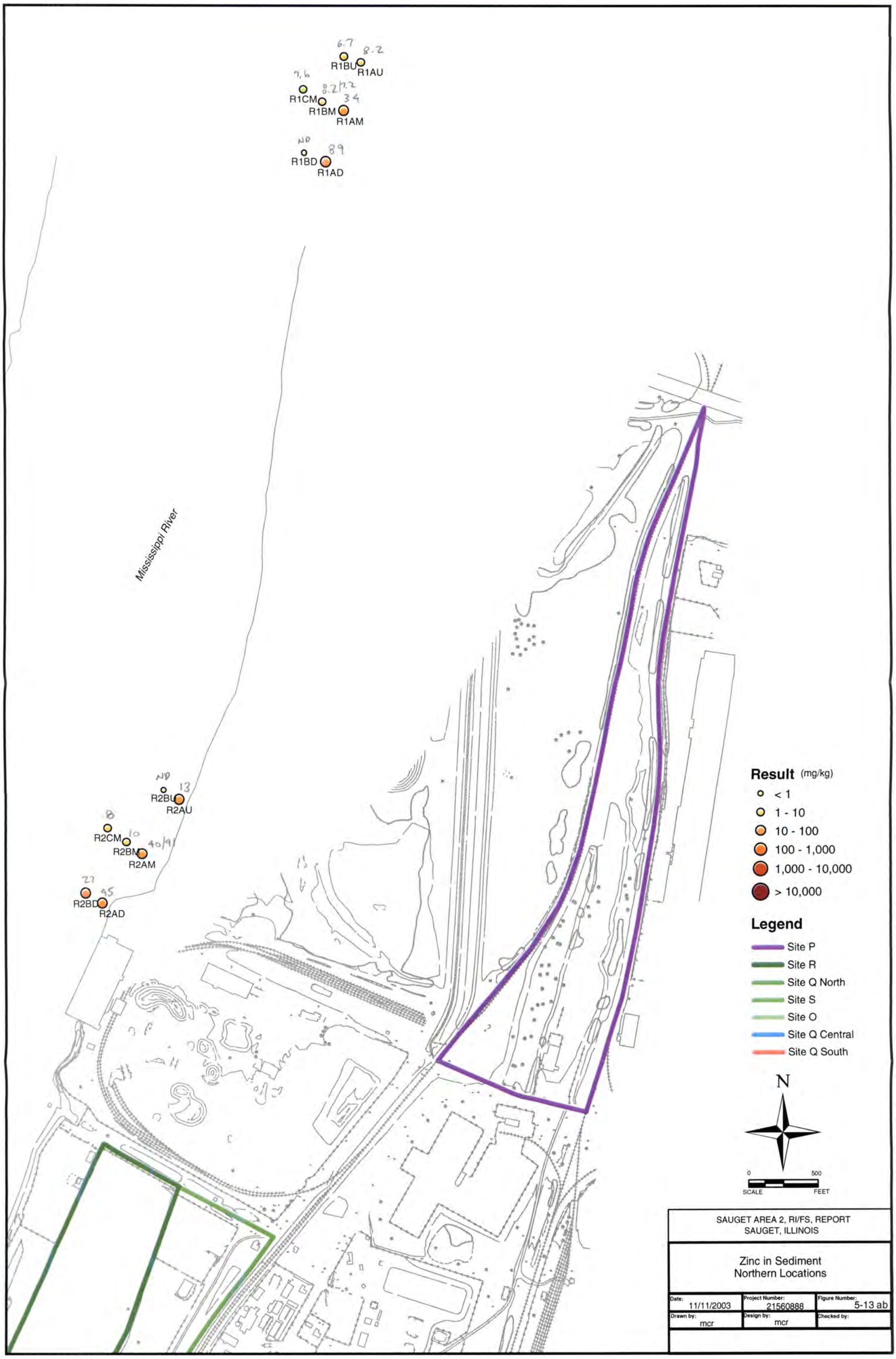

Mississippi River
R3BU
R3AU
R3CM
R3BM
R3AM
R3BD
R3AD
R4BU
R4AU
R4CM
R4BM
R4AM
R4BD
R4AD
N
0
500
SCALE
FEET
Result (mg/kg)
< 1
1 - 10
10 - 100
100 - 1,000
1,000 - 10,000
> 10,000
Legend
Site P
Site R
Site Q North
Site S
Site O
Site Q Central
Site Q South
SAUGET AREA 2, RI/FS, REPORT
SAUGET, ILLINOIS
Lead in Sediment
Central Locations
Date: 11/11/2003
Project Number: 21560888
Figure Number: 5-13 w
Drawn by: mcr
Design by: mcr
Checked by:


Mississippi River
15
R5BN
8.1
R5AN
13
R5BU
18
R5AU
3.4
R5CM
6.2
R5BM
14
R5AM
10ppm
3
R6CM
22
R6BU
39
R6AU
110
R6BM
29/35
R6AM
20
R6AD
P11S
N
0
500
SCALE
FEET
Result (mg/kg)
< 1
1 - 10
10 - 100
100 - 1,000
1,000 - 10,000
> 10,000
Legend
Site P
Site R
Site Q North
Site S
Site O
Site Q Central
Site Q South
SAUGET AREA 2, RI/FS, REPORT
SAUGET, ILLINOIS
Lead in Sediment
Southern Locations
Date: 11/11/2003
Project Number: 21560888
Figure Number: 5-13 x
Drawn by: mcr
Design by: mcr
Checked by:


R1BU
R1AU
R1CM
R1BM
R1AM
R1BD
R1AD
Mississippi River
R2BU
R2AU
R2CM
R2BM
R2AM
R2BD
R2AD
Result (mg/kg)
< 1
1 - 10
10 - 100
100 - 1,000
1,000 - 10,000
> 10,000
Legend
Site P
Site R
Site Q North
Site S
Site O
Site Q Central
Site Q South
N
0
500
SCALE
FEET
SAUGET AREA 2, RI/FS, REPORT
SAUGET, ILLINOIS
Mercury in Sediment
Northern Locations
Date: 11/11/2003
Project Number: 21560888
Figure Number: 5-13 y
Drawn by: mcr
Design by: mcr
Checked by:


Mississippi River
R3BU
R3AU
R3CM
R3BM
R3AM
R3BD
R3AD
R4BU
R4AU
R4CM
R4BM
R4AM
R4BD
R4AD
N
0
500
SCALE
FEET
Result (mg/kg)
< 1
1 - 10
10 - 100
100 - 1,000
1,000 - 10,000
> 10,000
Legend
Site P
Site R
Site Q North
Site S
Site O
Site Q Central
Site Q South
SAUGET AREA 2, RI/FS, REPORT
SAUGET, ILLINOIS
Mercury in Sediment
Central Locations
Date: 11/11/2003
Project Number: 21560888
Figure Number: 5-13 z
Drawn by: mcr
Design by: mcr
Checked by:

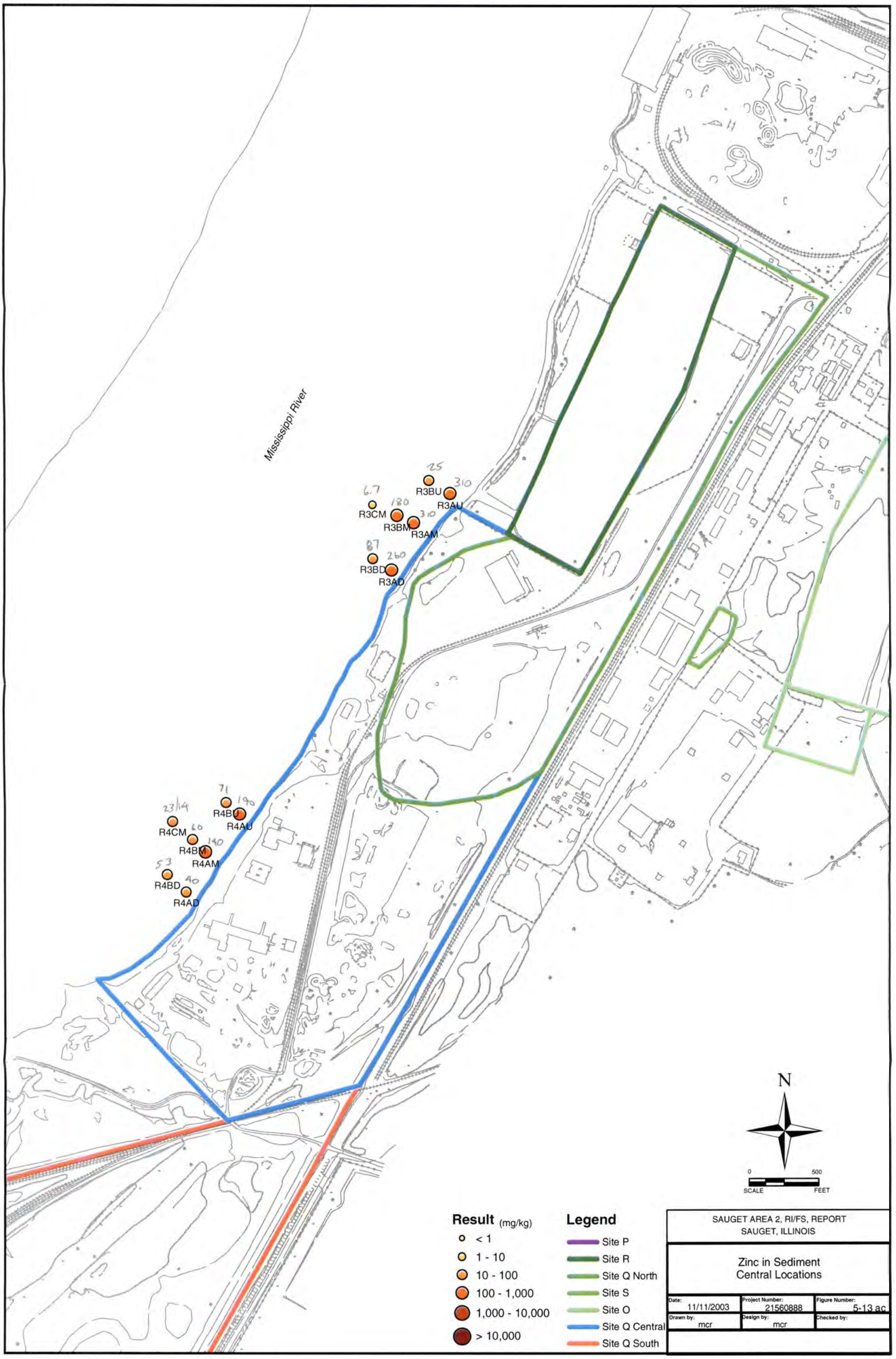

Mississippi River
0.02
R5BN
0.006
R5AN
0.001
R5BU
0.028
R5AU
ND
R5CM
0.016
R5BM
0.004
R5AM
ND
R6CM
0.035
R6BU
0.051
R6AU
0.015
R6BM
0.067/0.061
R6AM
0.036
R6AD
P11S
N
0
500
SCALE
FEET
Result (mg/kg)
< 1
1 - 10
10 - 100
100 - 1,000
1,000 - 10,000
> 10,000
Legend
Site P
Site R
Site Q North
Site S
Site O
Site Q Central
Site Q South
SAUGET AREA 2, RI/FS, REPORT
SAUGET, ILLINOIS
Mercury in Sediment
Southern Locations
Date: 11/11/2003
Project Number: 21560888
Figure Number: 5-13 aa
Drawn by: mcr
Design by: mcr
Checked by:

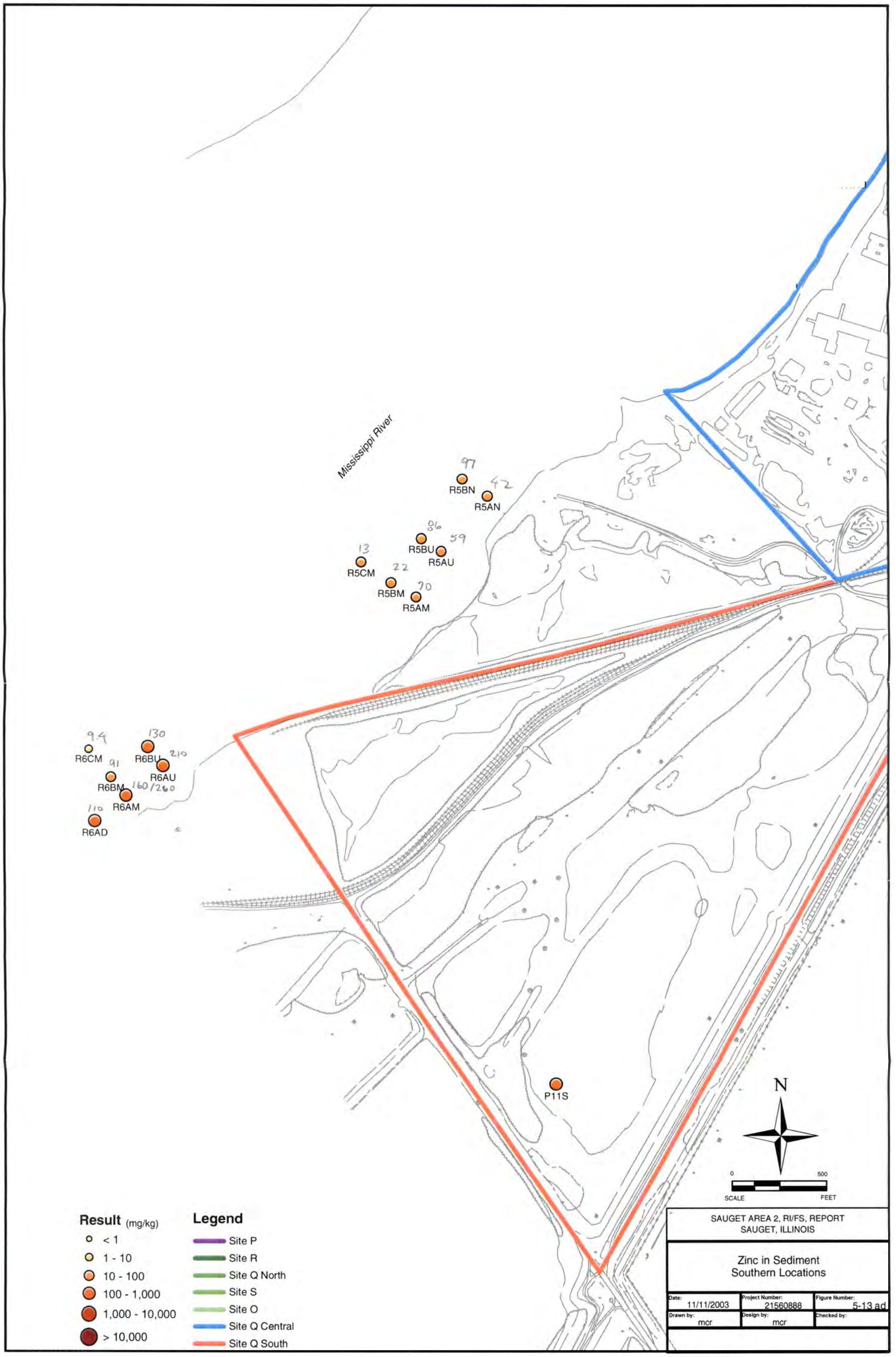


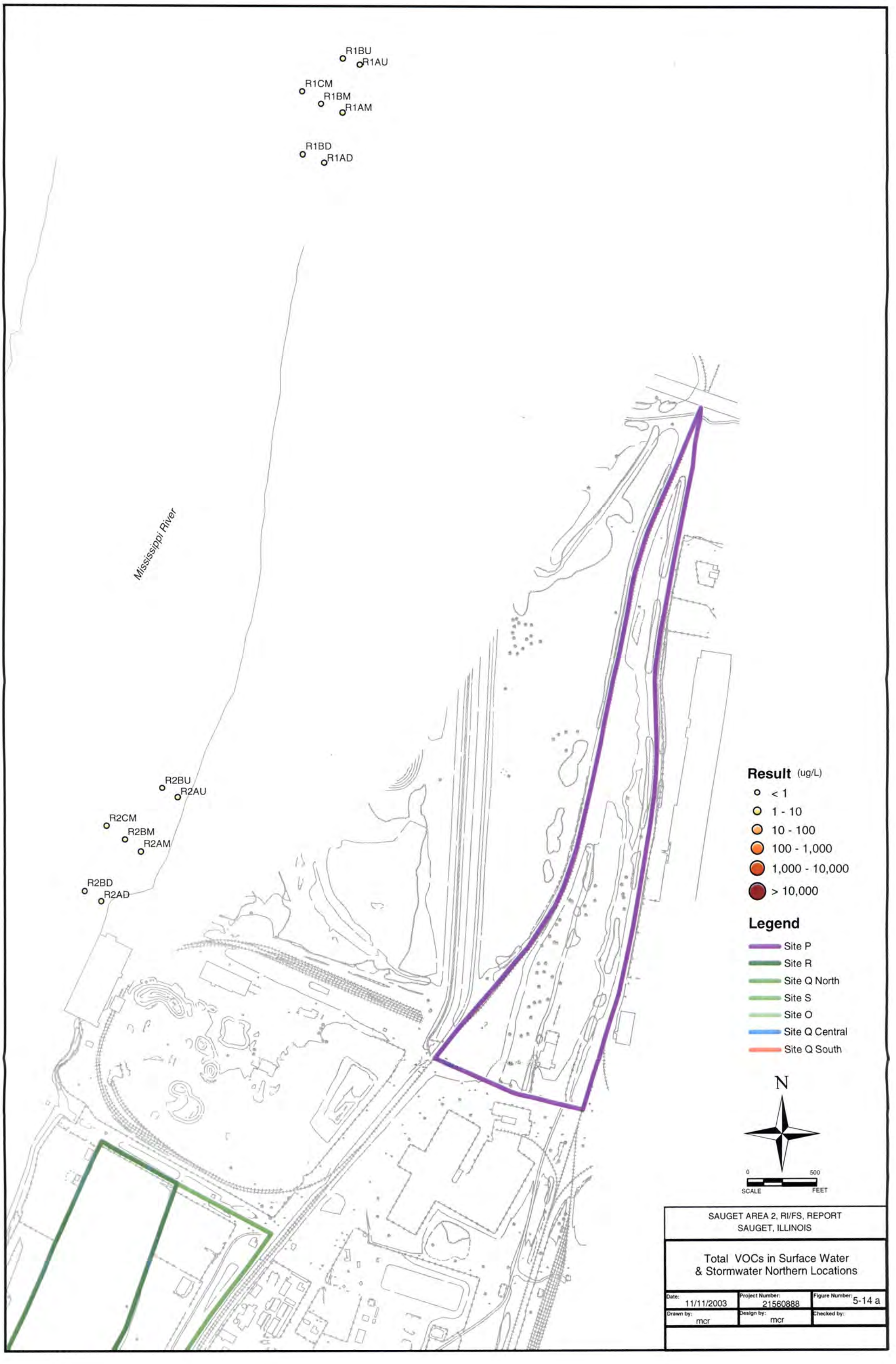
SAUGET AREA 2, RI/FS, REPORT
SAUGET, ILLINOIS

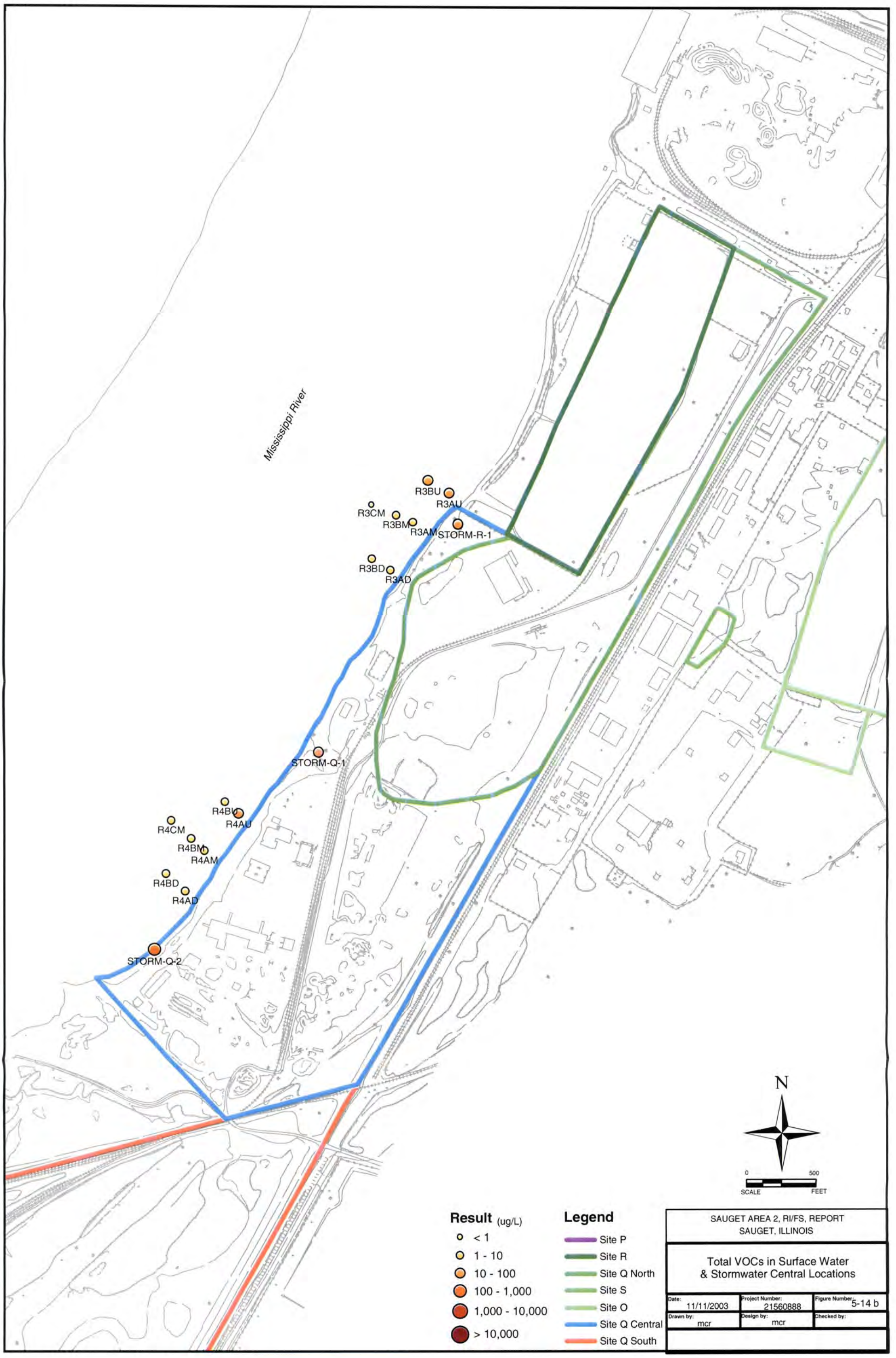
Zinc in Sediment
Northern Locations

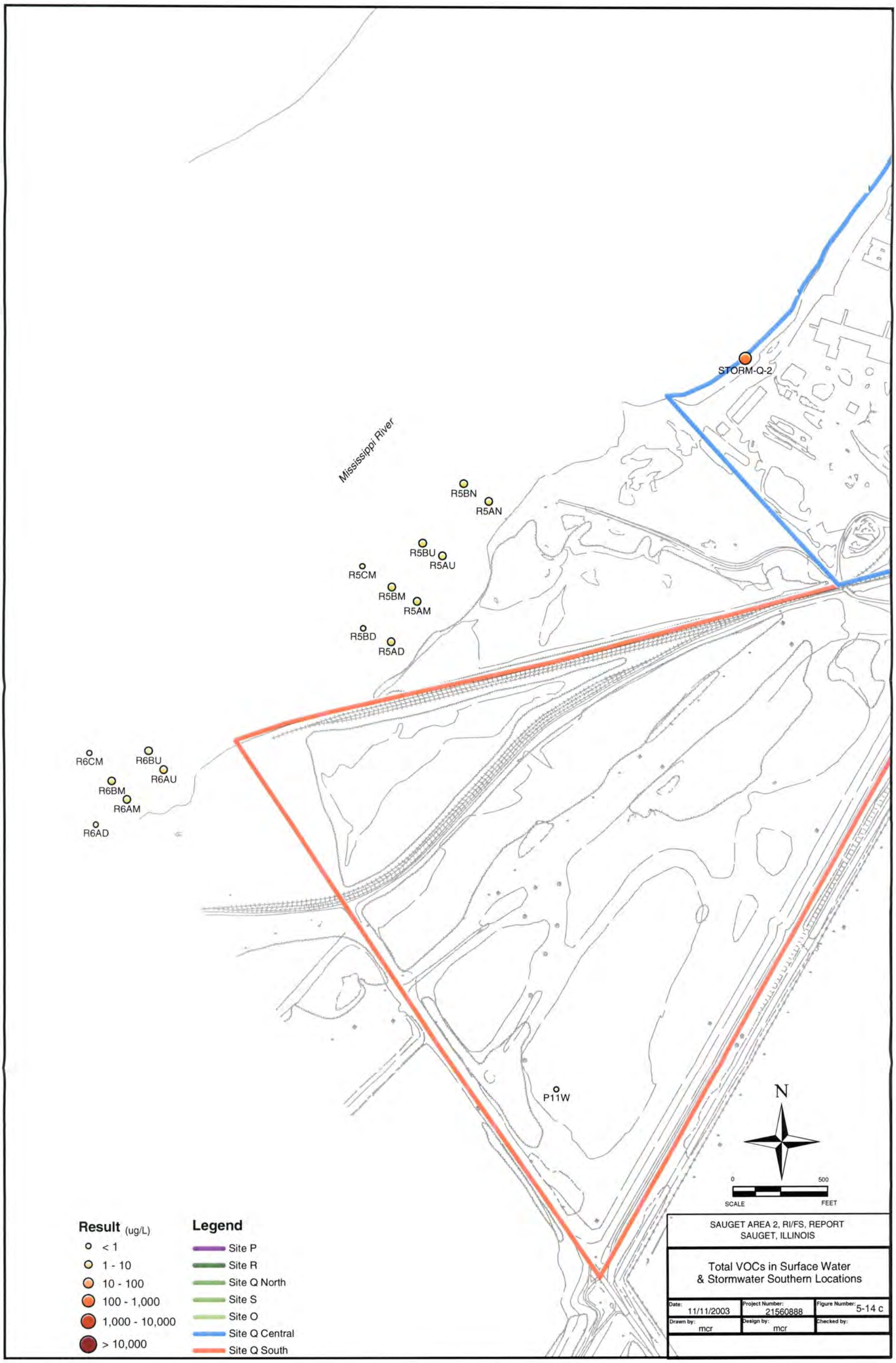
Date:	Project Number:	Figure Number:
11/11/2003	21560888	5-13 ab
Drawn by: mcr	Design by: mcr	Checked by:

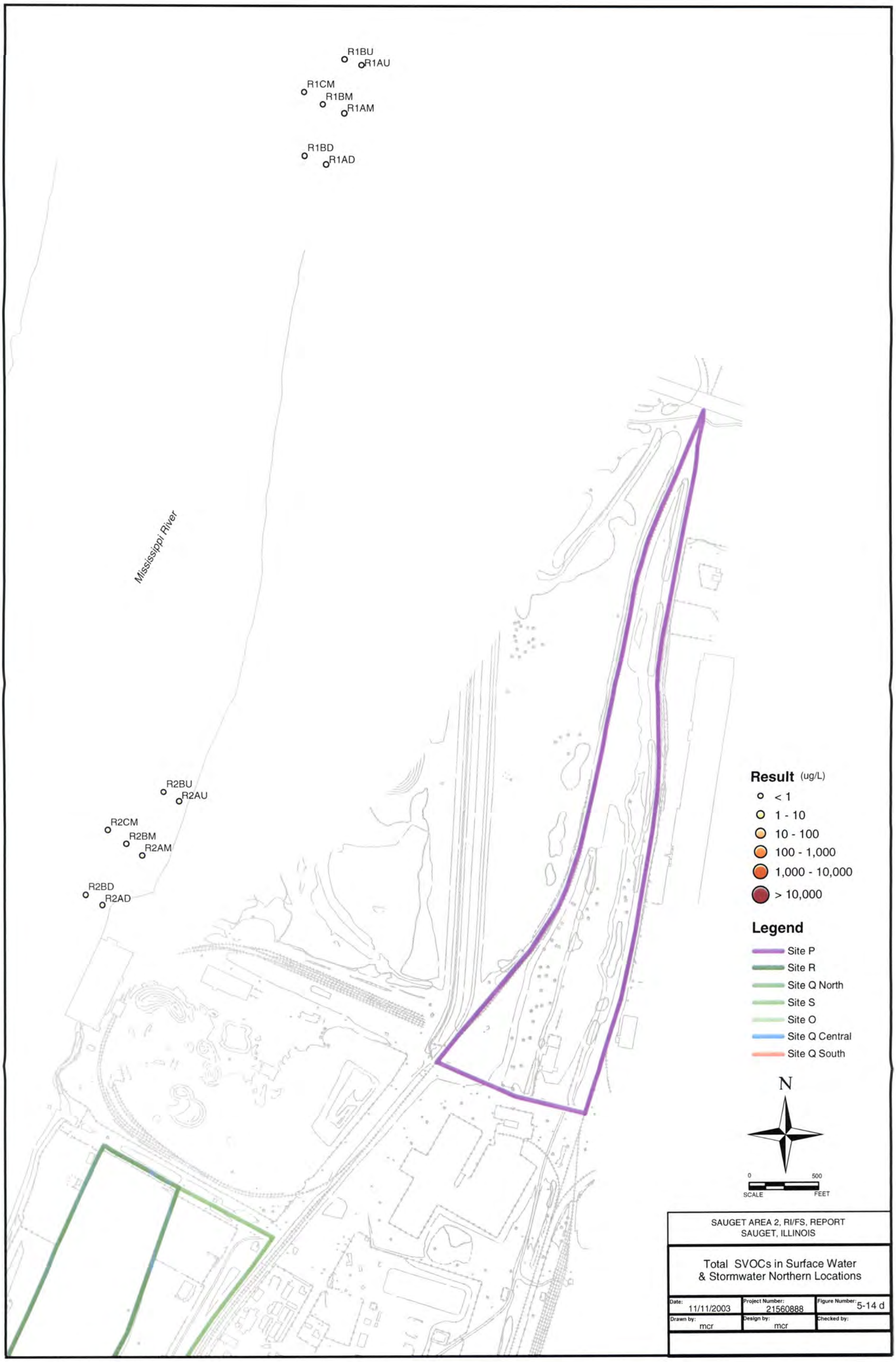

Mississippi River
25
R3BU
310
R3AU
6.7
R3CM
180
R3BM
310
R3AM
87
R3BD
260
R3AD
71
R4BU
190
R4AU
23/14
R4CM
60
R4BM
140
R4AM
53
R4BD
40
R4AD
N
0
500
SCALE
FEET
Result (mg/kg)
< 1
1 - 10
10 - 100
100 - 1,000
1,000 - 10,000
> 10,000
Legend
Site P
Site R
Site Q North
Site S
Site O
Site Q Central
Site Q South
SAUGET AREA 2, RI/FS, REPORT
SAUGET, ILLINOIS
Zinc in Sediment
Central Locations
Date: 11/11/2003
Project Number: 21560888
Figure Number: 5-13 ac
Drawn by: mcr
Design by: mcr
Checked by:

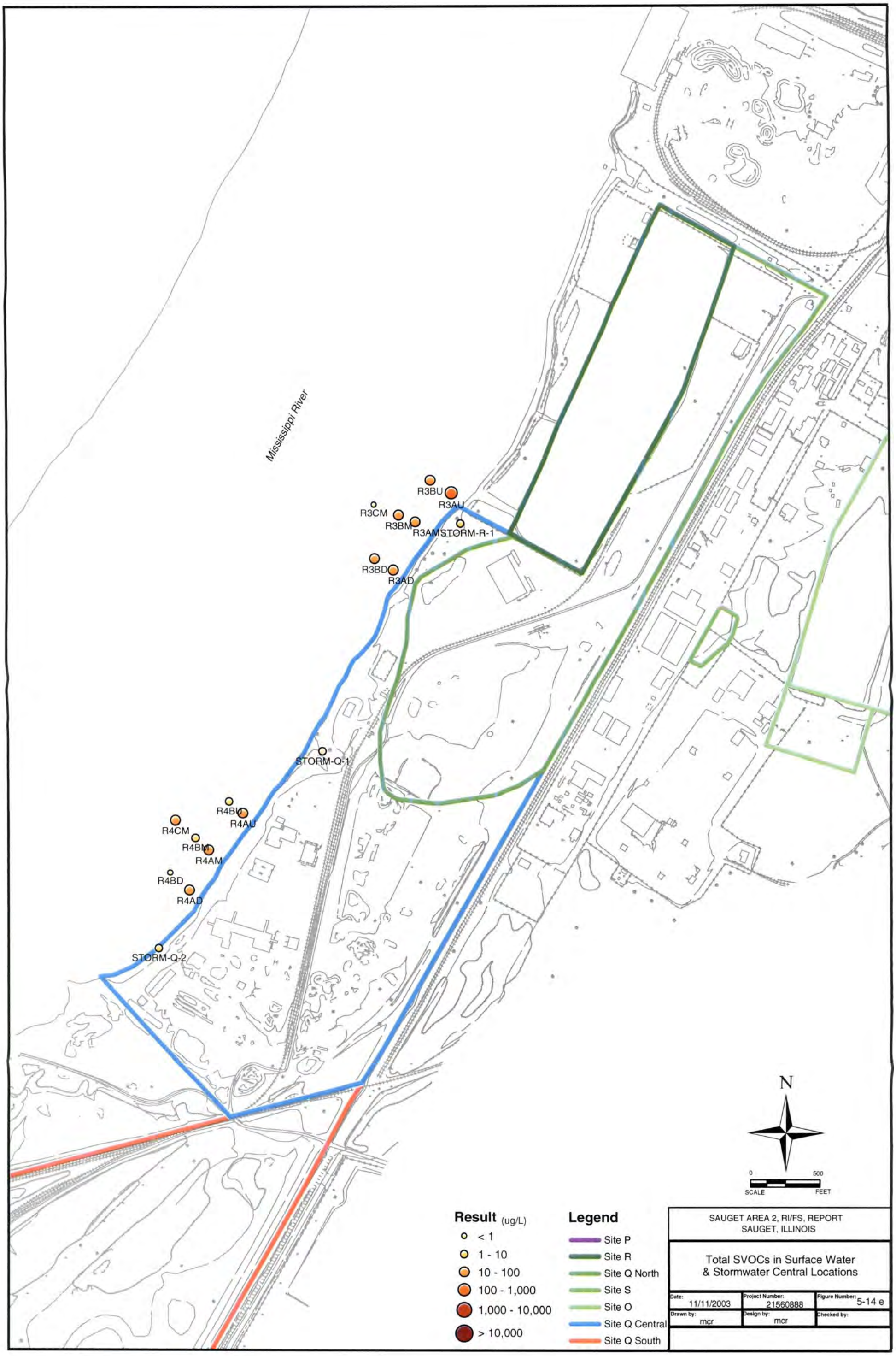

Mississippi River
97
R5BN
42
R5AN
86
R5BU
59
R5AU
13
R5CM
22
R5BM
70
R5AM
94
R6CM
130
R6BU
210
R6AU
91
R6BM
160/260
R6AM
110
R6AD
P11S
N
0
500
SCALE
FEET
Result (mg/kg)
< 1
1 - 10
10 - 100
100 - 1,000
1,000 - 10,000
> 10,000
Legend
Site P
Site R
Site Q North
Site S
Site O
Site Q Central
Site Q South
SAUGET AREA 2, RI/FS, REPORT
SAUGET, ILLINOIS
Zinc in Sediment
Southern Locations
Date: 11/11/2003
Project Number: 21560888
Figure Number: 5-13 ad
Drawn by: mcr
Design by: mcr
Checked by:

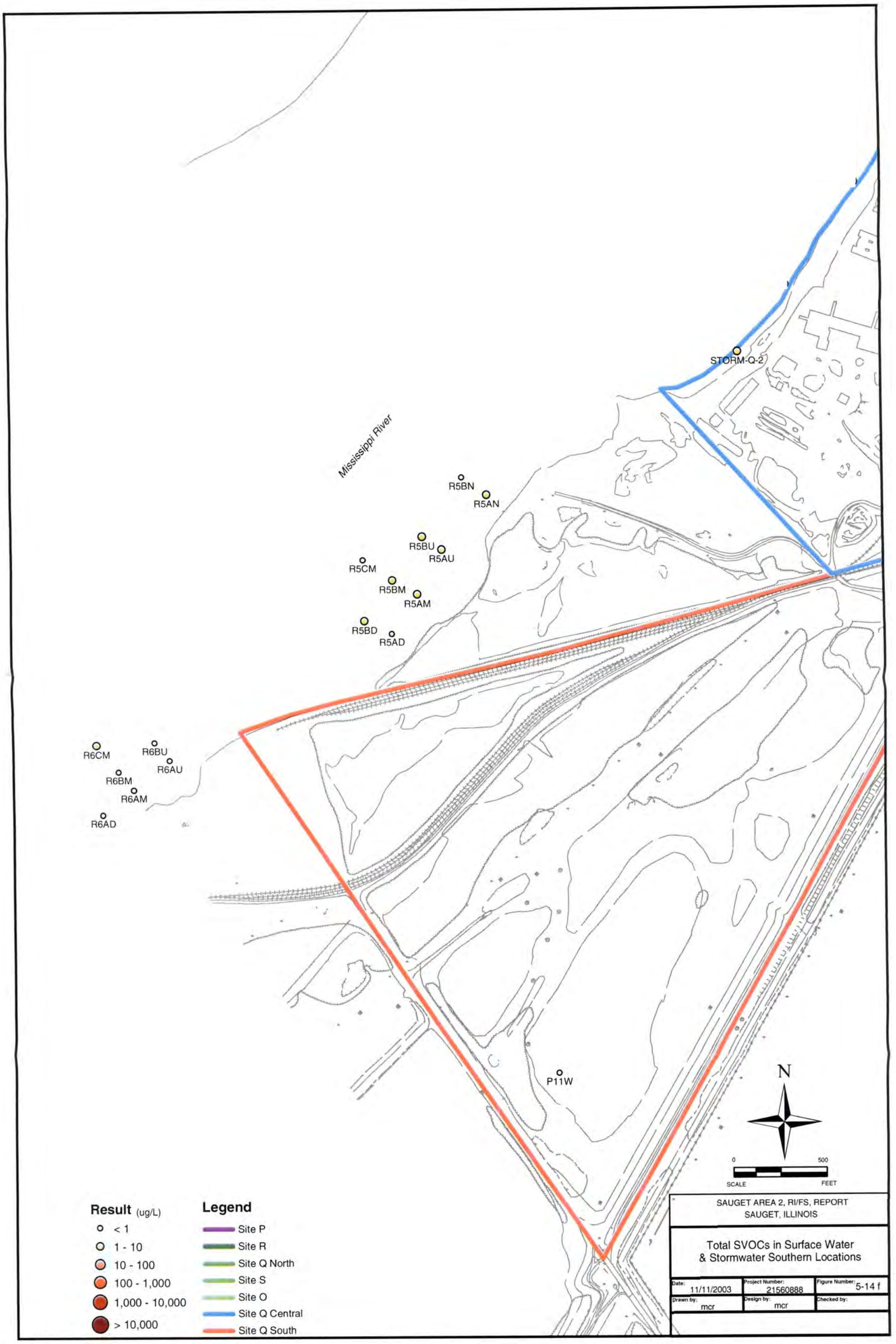

R1BU
R1AU
R1CM
R1BM
R1AM
R1BD
R1AD
Mississippi River
R2BU
R2AU
R2CM
R2BM
R2AM
R2BD
R2AD
Result (ug/L)
< 1
1 - 10
10 - 100
100 - 1,000
1,000 - 10,000
> 10,000
Legend
Site P
Site R
Site Q North
Site S
Site O
Site Q Central
Site Q South
N
0
500
SCALE
FEET
SAUGET AREA 2, RI/FS, REPORT
SAUGET, ILLINOIS
Total VOCs in Surface Water
& Stormwater Northern Locations
Date: 11/11/2003
Project Number: 21560888
Figure Number: 5-14 a
Drawn by: mcr
Design by: mcr
Checked by:

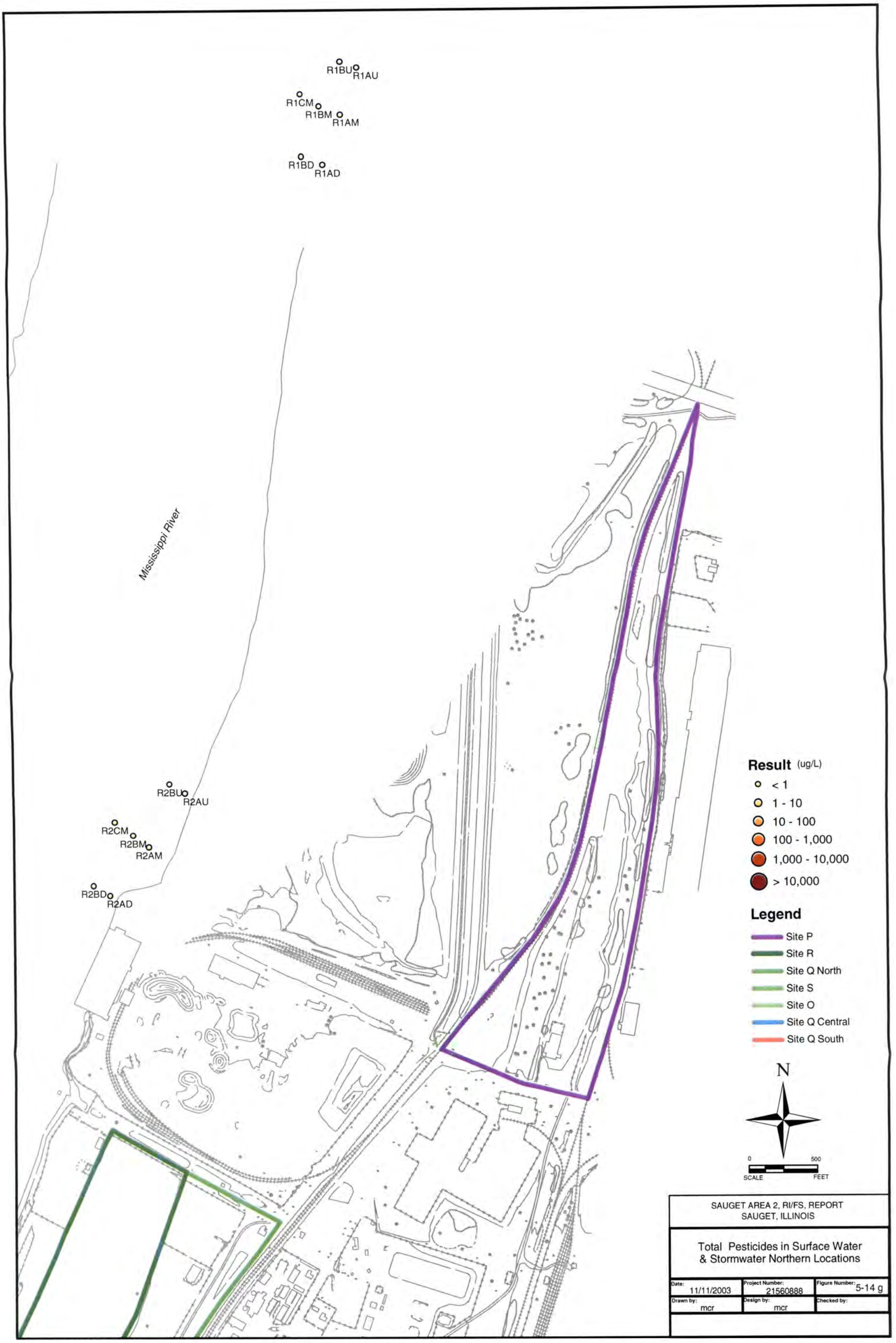

Mississippi River
R3BU
R3AU
R3CM
R3BM
R3AM
STORM-R-1
R3BD
R3AD
STORM-Q-1
R4BU
R4AU
R4CM
R4BM
R4AM
R4BD
R4AD
STORM-Q-2
N
0
500
SCALE
FEET
Result (ug/L)
< 1
1 - 10
10 - 100
100 - 1,000
1,000 - 10,000
> 10,000
Legend
Site P
Site R
Site Q North
Site S
Site O
Site Q Central
Site Q South
SAUGET AREA 2, RI/FS, REPORT
SAUGET, ILLINOIS
Total VOCs in Surface Water
& Stormwater Central Locations
Date: 11/11/2003
Project Number: 21560888
Figure Number: 5-14 b
Drawn by: mcr
Design by: mcr
Checked by:

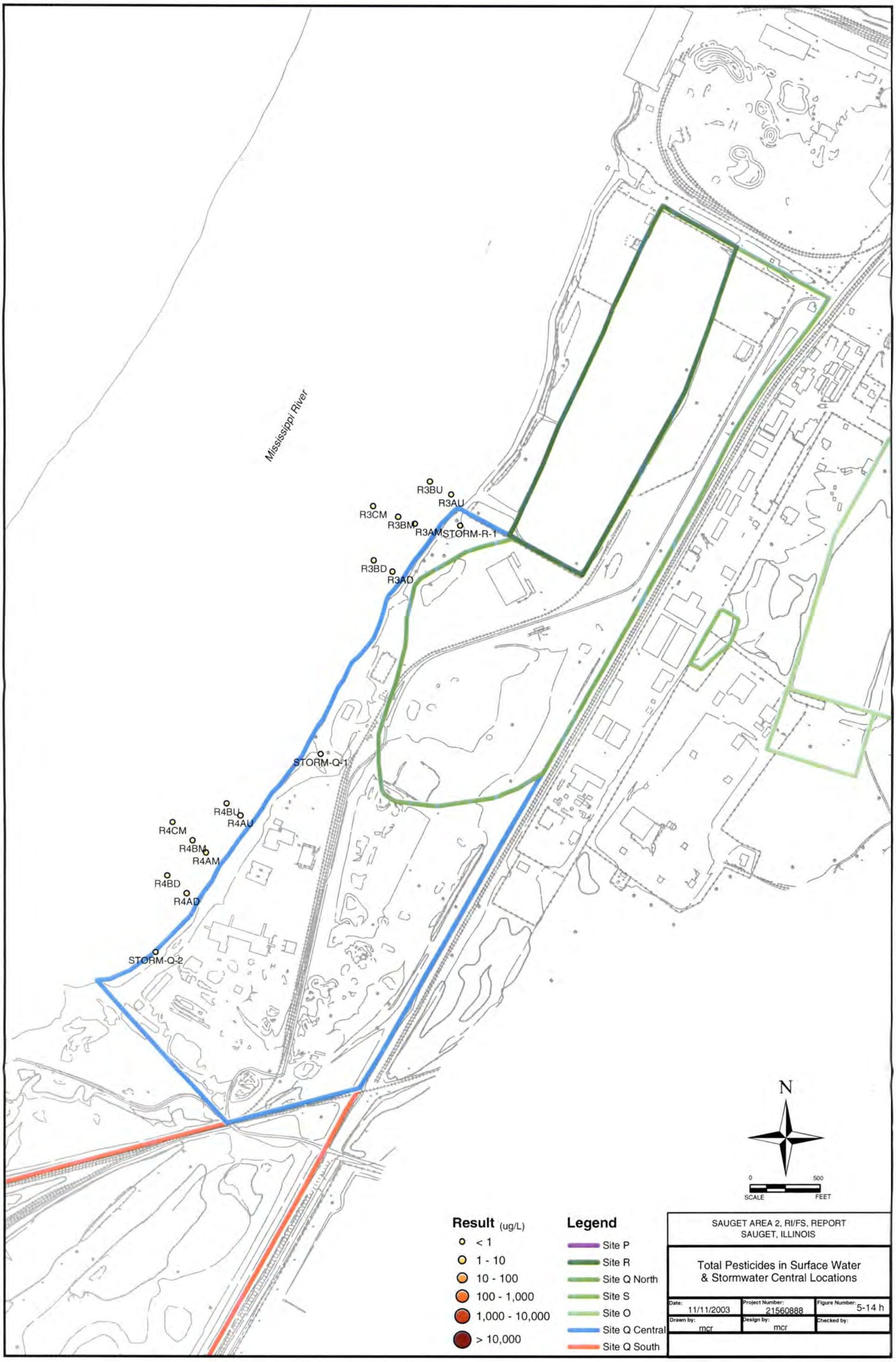

STORM-Q-2
Mississippi River
R5BN
R5AN
R5BU
R5AU
R5CM
R5BM
R5AM
R5BD
R5AD
R6CM
R6BU
R6AU
R6BM
R6AM
R6AD
P11W
N
0
500
SCALE
FEET
Result (ug/L)
< 1
1 - 10
10 - 100
100 - 1,000
1,000 - 10,000
> 10,000
Legend
Site P
Site R
Site Q North
Site S
Site O
Site Q Central
Site Q South
SAUGET AREA 2, RI/FS, REPORT
SAUGET, ILLINOIS
Total VOCs in Surface Water
& Stormwater Southern Locations
Date: 11/11/2003
Project Number: 21560888
Figure Number: 5-14 c
Drawn by: mcr
Design by: mcr
Checked by:

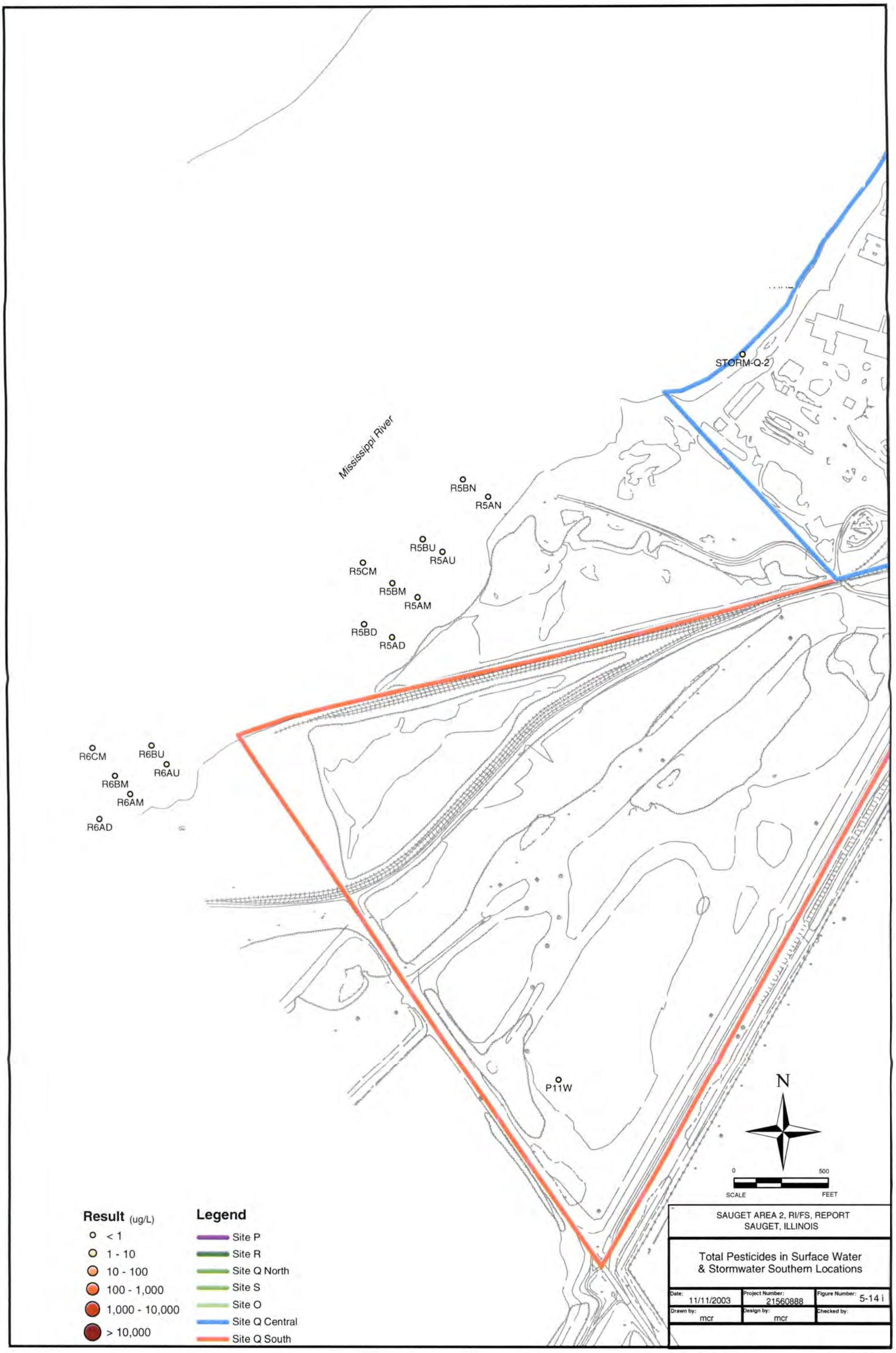

R1BU
R1AU
R1CM
R1BM
R1AM
R1BD
R1AD
Mississippi River
R2BU
R2AU
R2CM
R2BM
R2AM
R2BD
R2AD
Result (ug/L)
< 1
1 - 10
10 - 100
100 - 1,000
1,000 - 10,000
> 10,000
Legend
Site P
Site R
Site Q North
Site S
Site O
Site Q Central
Site Q South
N
0
500
SCALE
FEET
SAUGET AREA 2, RI/FS, REPORT
SAUGET, ILLINOIS
Total SVOCs in Surface Water
& Stormwater Northern Locations
Date: 11/11/2003
Project Number: 21560888
Figure Number: 5-14 d
Drawn by: mcr
Design by: mcr
Checked by:

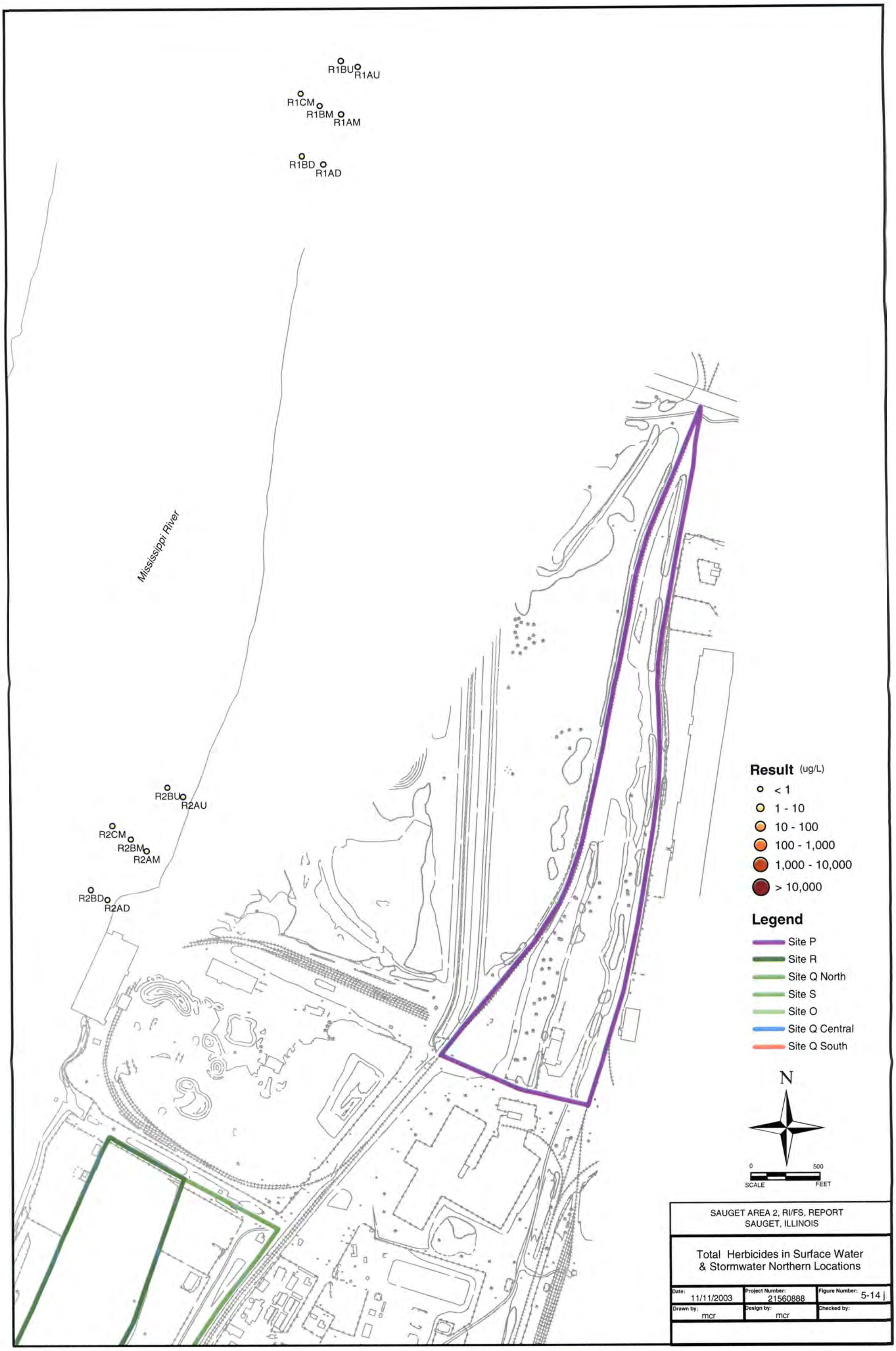

Mississippi River
R3BU
R3AU
R3CM
R3BM
R3AM
STORM-R-1
R3BD
R3AD
STORM-Q-1
R4BU
R4AU
R4CM
R4BM
R4AM
R4BD
R4AD
STORM-Q-2
N
0
500
SCALE
FEET
Result (ug/L)
< 1
1 - 10
10 - 100
100 - 1,000
1,000 - 10,000
> 10,000
Legend
Site P
Site R
Site Q North
Site S
Site O
Site Q Central
Site Q South
SAUGET AREA 2, RI/FS, REPORT
SAUGET, ILLINOIS
Total SVOCs in Surface Water
& Stormwater Central Locations
Date: 11/11/2003
Project Number: 21560888
Figure Number: 5-14 e
Drawn by: mcr
Design by: mcr
Checked by:

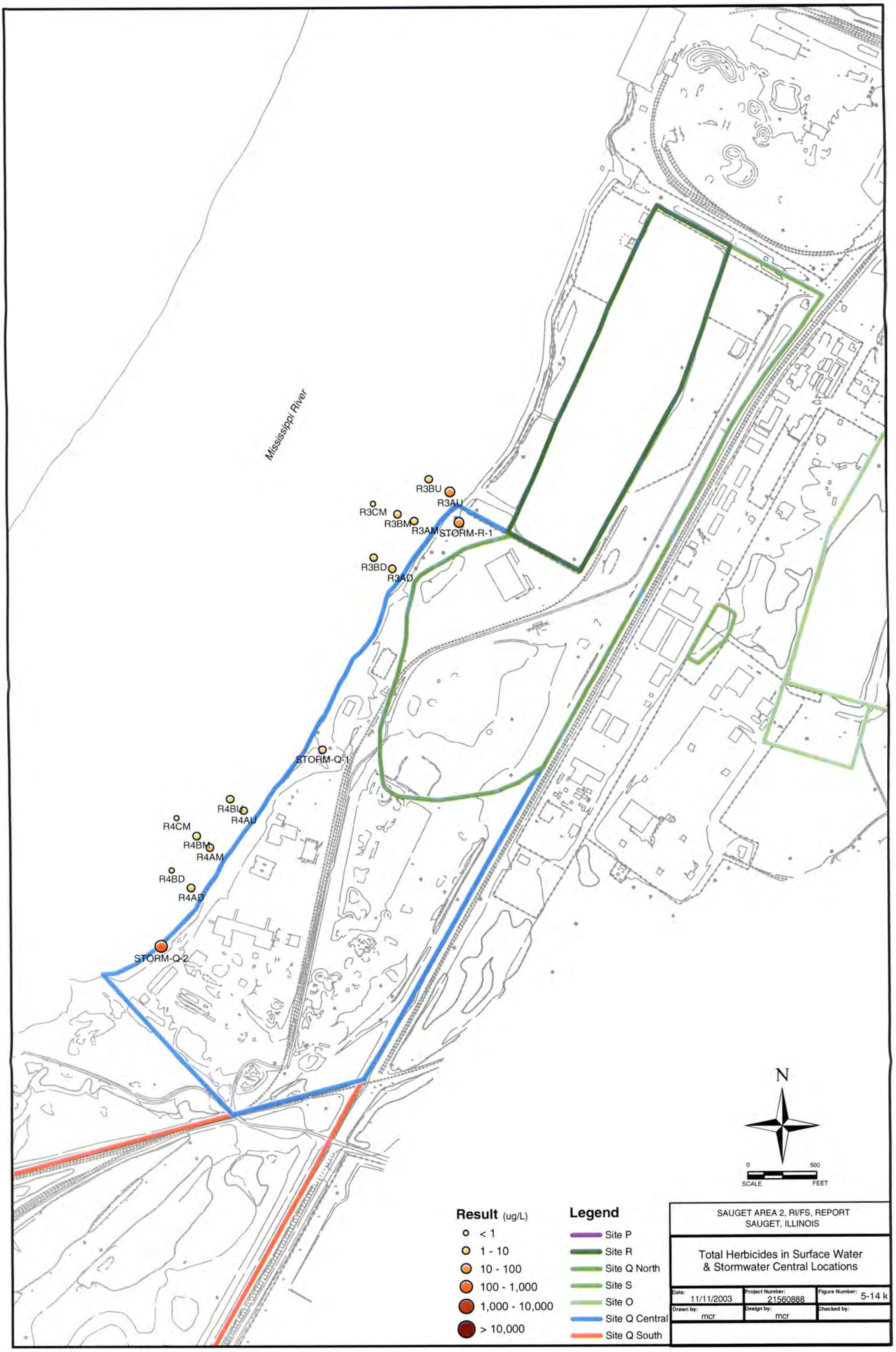

STORM-Q-2
Mississippi River
R5BN
R5AN
R5BU
R5AU
R5CM
R5BM
R5AM
R5BD
R5AD
R6CM
R6BU
R6AU
R6BM
R6AM
R6AD
P11W
N
0
500
SCALE
FEET
Result (ug/L)
< 1
1 - 10
10 - 100
100 - 1,000
1,000 - 10,000
> 10,000
Legend
Site P
Site R
Site Q North
Site S
Site O
Site Q Central
Site Q South
SAUGET AREA 2, RI/FS, REPORT
SAUGET, ILLINOIS
Total SVOCs in Surface Water
& Stormwater Southern Locations
Date: 11/11/2003
Project Number: 21560888
Figure Number: 5-14 f
Drawn by: mcr
Design by: mcr
Checked by:

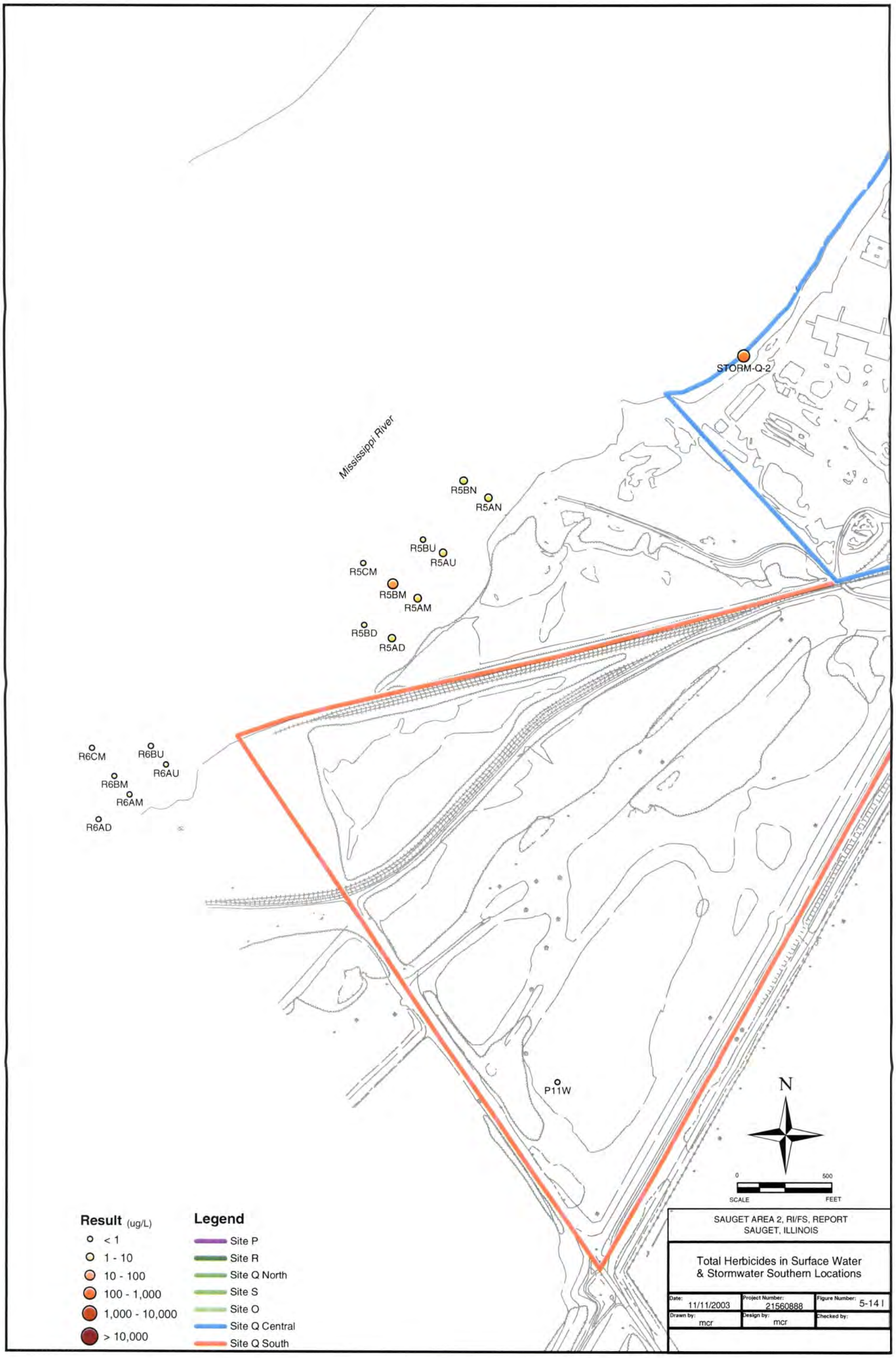

R1BU
R1AU
R1CM
R1BM
R1AM
R1BD
R1AD
Mississippi River
R2BU
R2AU
R2CM
R2BM
R2AM
R2BD
R2AD
Result (ug/L)
< 1
1 - 10
10 - 100
100 - 1,000
1,000 - 10,000
> 10,000
Legend
Site P
Site R
Site Q North
Site S
Site O
Site Q Central
Site Q South
N
0
500
SCALE
FEET
SAUGET AREA 2, RI/FS, REPORT
SAUGET, ILLINOIS
Total Pesticides in Surface Water
& Stormwater Northern Locations
Date: 11/11/2003
Project Number: 21560888
Figure Number: 5-14 g
Drawn by: mcr
Design by: mcr
Checked by:

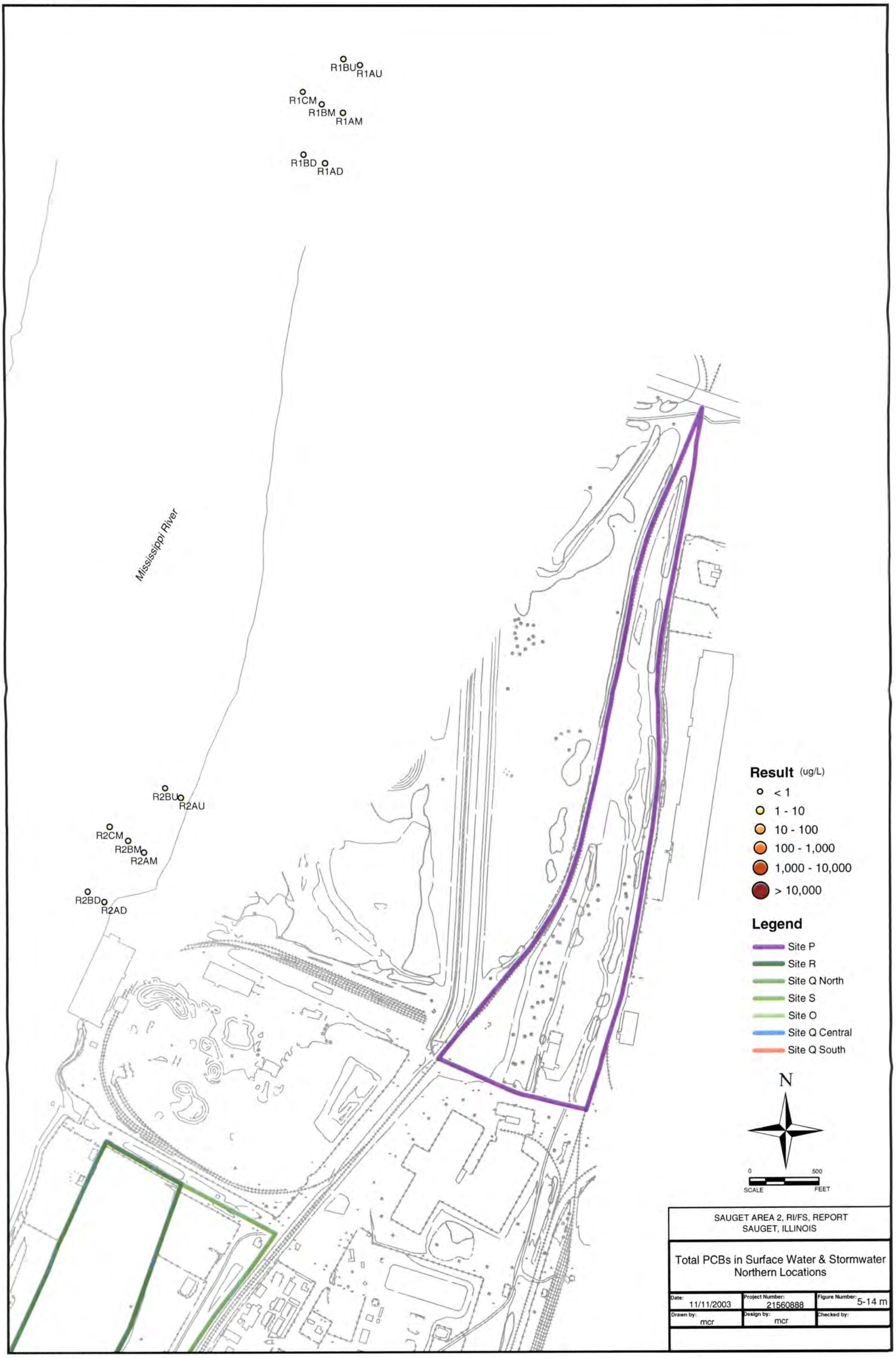

Mississippi River
R3BU
R3AU
R3CM
R3BM
R3AM
STORM-R-1
R3BD
R3AD
STORM-Q-1
R4BU
R4AU
R4CM
R4BM
R4AM
R4BD
R4AD
STORM-Q-2
N
0
500
SCALE
FEET
Result (ug/L)
< 1
1 - 10
10 - 100
100 - 1,000
1,000 - 10,000
> 10,000
Legend
Site P
Site R
Site Q North
Site S
Site O
Site Q Central
Site Q South
SAUGET AREA 2, RI/FS, REPORT
SAUGET, ILLINOIS
Total Pesticides in Surface Water
& Stormwater Central Locations
Date: 11/11/2003
Project Number: 21560888
Figure Number: 5-14 h
Drawn by: mcr
Design by: mcr
Checked by:

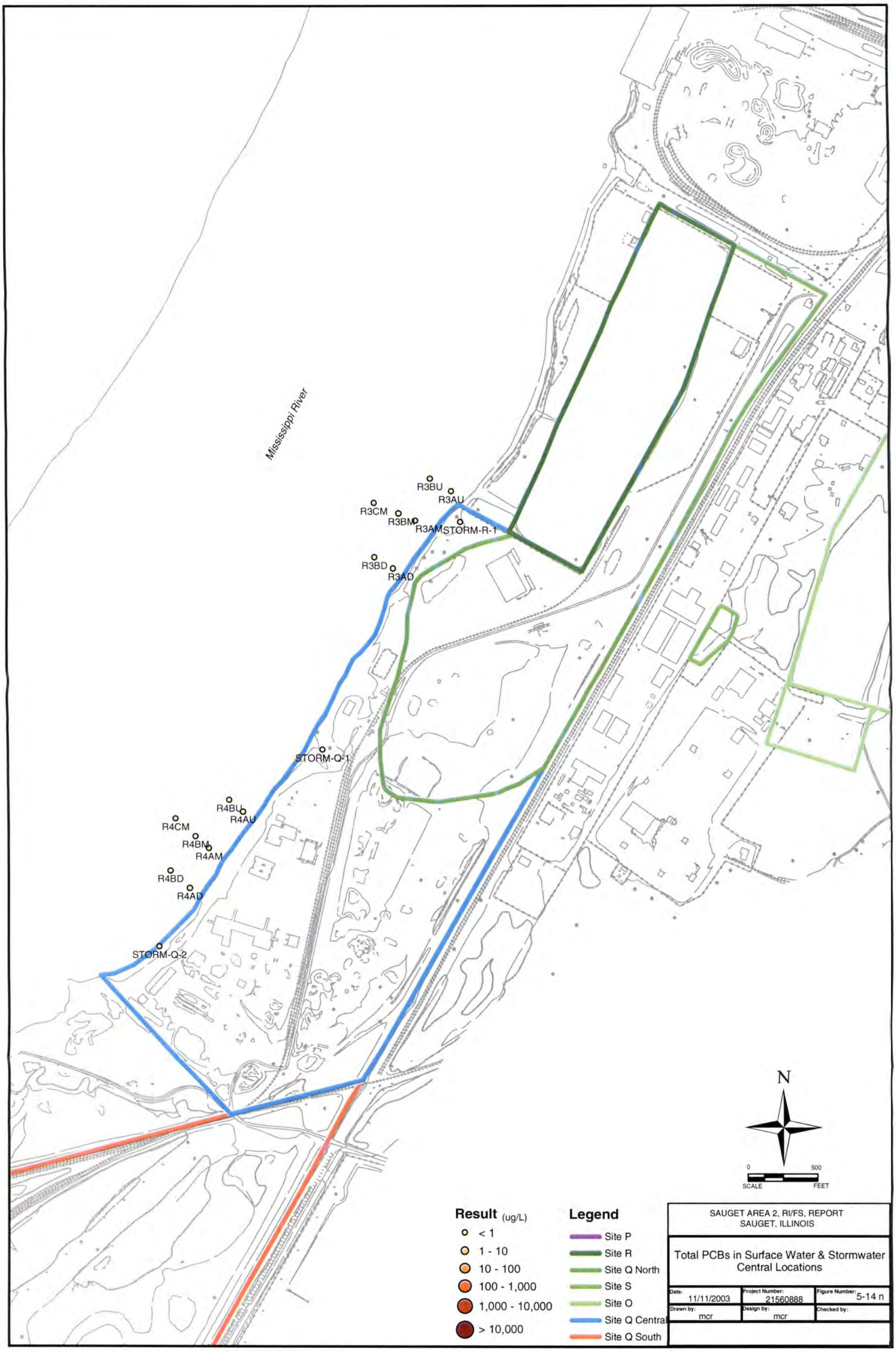

STORM-Q-2
Mississippi River
R5BN
R5AN
R5BU
R5AU
R5CM
R5BM
R5AM
R5BD
R5AD
R6CM
R6BU
R6AU
R6BM
R6AM
R6AD
P11W
N
0
500
SCALE
FEET
Result (ug/L)
< 1
1 - 10
10 - 100
100 - 1,000
1,000 - 10,000
> 10,000
Legend
Site P
Site R
Site Q North
Site S
Site O
Site Q Central
Site Q South
SAUGET AREA 2, RI/FS, REPORT
SAUGET, ILLINOIS
Total Pesticides in Surface Water
& Stormwater Southern Locations
Date: 11/11/2003
Project Number: 21560888
Figure Number: 5-14 i
Drawn by: mcr
Design by: mcr
Checked by:

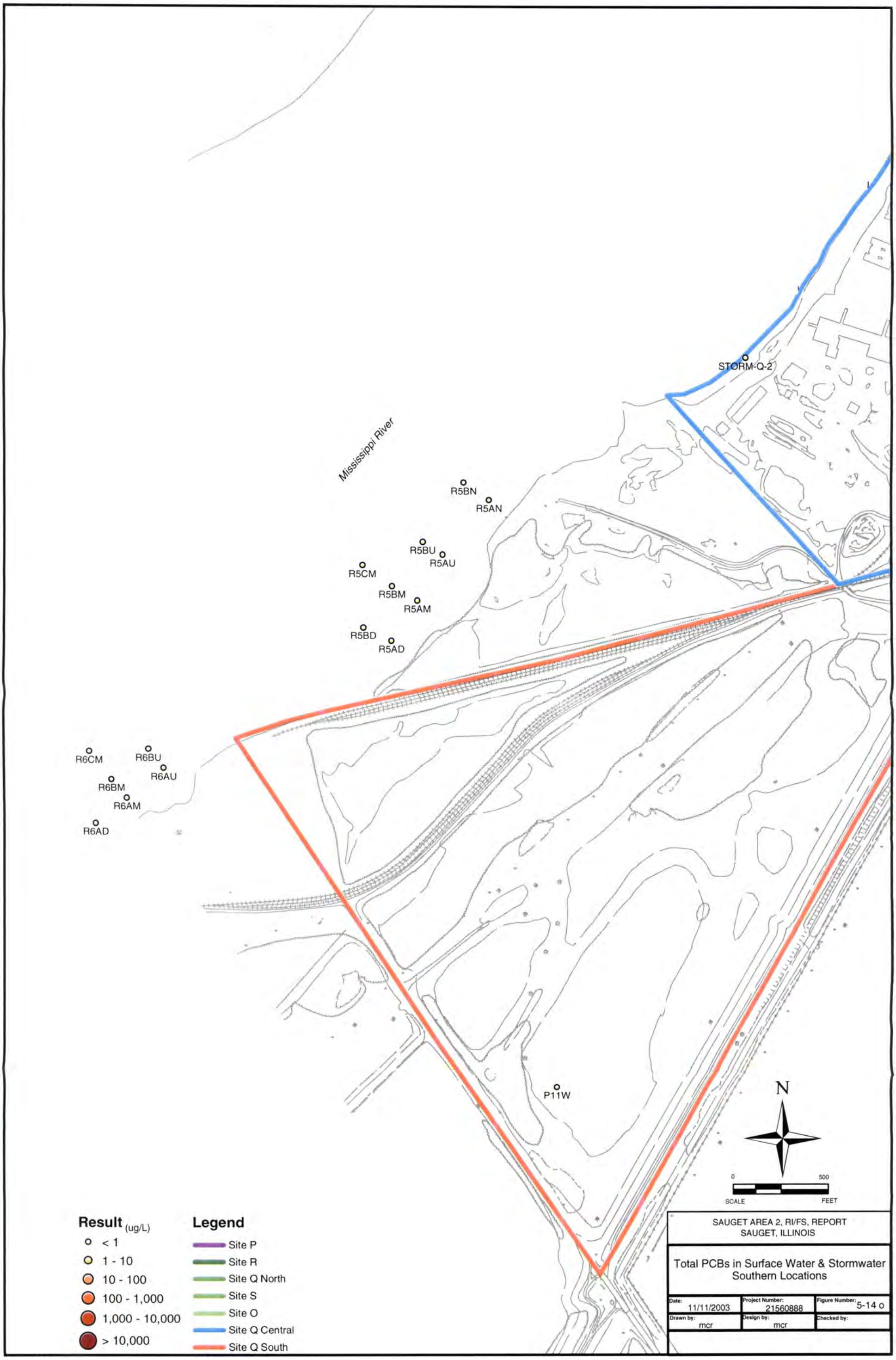

R1BU
R1AU
R1CM
R1BM
R1AM
R1BD
R1AD
Mississippi River
R2BU
R2AU
R2CM
R2BM
R2AM
R2BD
R2AD
Result (ug/L)
< 1
1 - 10
10 - 100
100 - 1,000
1,000 - 10,000
> 10,000
Legend
Site P
Site R
Site Q North
Site S
Site O
Site Q Central
Site Q South
N
0
500
SCALE
FEET
SAUGET AREA 2, RI/FS, REPORT
SAUGET, ILLINOIS
Total Herbicides in Surface Water
& Stormwater Northern Locations
Date: 11/11/2003
Project Number: 21560888
Figure Number: 5-14 j
Drawn by: mcr
Design by: mcr
Checked by:


Mississippi River
R3BU
R3AU
R3CM
R3BM
R3AM
STORM-R-1
R3BD
R3AD
STORM-Q-1
R4BU
R4AU
R4CM
R4BM
R4AM
R4BD
R4AD
STORM-Q-2
N
0
500
SCALE
FEET
Result (ug/L)
< 1
1 - 10
10 - 100
100 - 1,000
1,000 - 10,000
> 10,000
Legend
Site P
Site R
Site Q North
Site S
Site O
Site Q Central
Site Q South
SAUGET AREA 2, RI/FS, REPORT
SAUGET, ILLINOIS
Total Herbicides in Surface Water
& Stormwater Central Locations
Date: 11/11/2003
Project Number: 21560888
Figure Number: 5-14 k
Drawn by: mcr
Design by: mcr
Checked by:


STORM-Q-2
Mississippi River
R5BN
R5AN
R5BU
R5AU
R5CM
R5BM
R5AM
R5BD
R5AD
R6CM
R6BU
R6AU
R6BM
R6AM
R6AD
P11W
N
0
500
SCALE
FEET
Result (ug/L)
< 1
1 - 10
10 - 100
100 - 1,000
1,000 - 10,000
> 10,000
Legend
Site P
Site R
Site Q North
Site S
Site O
Site Q Central
Site Q South
SAUGET AREA 2, RI/FS, REPORT
SAUGET, ILLINOIS
Total Herbicides in Surface Water
& Stormwater Southern Locations
Date: 11/11/2003
Project Number: 21560888
Figure Number: 5-14 I
Drawn by: mcr
Design by: mcr
Checked by:


R1BU
R1AU
R1CM
R1BM
R1AM
R1BD
R1AD
Mississippi River
R2BU
R2AU
R2CM
R2BM
R2AM
R2BD
R2AD
Result (ug/L)
< 1
1 - 10
10 - 100
100 - 1,000
1,000 - 10,000
> 10,000
Legend
Site P
Site R
Site Q North
Site S
Site O
Site Q Central
Site Q South
N
0
500
SCALE
FEET
SAUGET AREA 2, RI/FS, REPORT
SAUGET, ILLINOIS
Total PCBs in Surface Water & Stormwater
Northern Locations
Date: 11/11/2003
Project Number: 21560888
Figure Number: 5-14 m
Drawn by: mcr
Design by: mcr
Checked by:


Mississippi River
R3BU
R3AU
R3CM
R3BM
R3AM
STORM-R-1
R3BD
R3AD
STORM-Q-1
R4BU
R4AU
R4CM
R4BM
R4AM
R4BD
R4AD
STORM-Q-2
N
0
500
SCALE
FEET
Result (ug/L)
< 1
1 - 10
10 - 100
100 - 1,000
1,000 - 10,000
> 10,000
Legend
Site P
Site R
Site Q North
Site S
Site O
Site Q Central
Site Q South
SAUGET AREA 2, RI/FS, REPORT
SAUGET, ILLINOIS
Total PCBs in Surface Water & Stormwater
Central Locations
Date: 11/11/2003
Project Number: 21560888
Figure Number: 5-14 n
Drawn by: mcr
Design by: mcr
Checked by:


STORM-Q-2
Mississippi River
R5BN
R5AN
R5BU
R5AU
R5CM
R5BM
R5AM
R5BD
R5AD
R6CM
R6BU
R6AU
R6BM
R6AM
R6AD
P11W
N
0
500
SCALE
FEET
Result (ug/L)
< 1
1 - 10
10 - 100
100 - 1,000
1,000 - 10,000
> 10,000
Legend
Site P
Site R
Site Q North
Site S
Site O
Site Q Central
Site Q South
SAUGET AREA 2, RI/FS, REPORT
SAUGET, ILLINOIS
Total PCBs in Surface Water & Stormwater
Southern Locations
Date: 11/11/2003
Project Number: 21560888
Figure Number: 5-14 o
Drawn by: mcr
Design by: mcr
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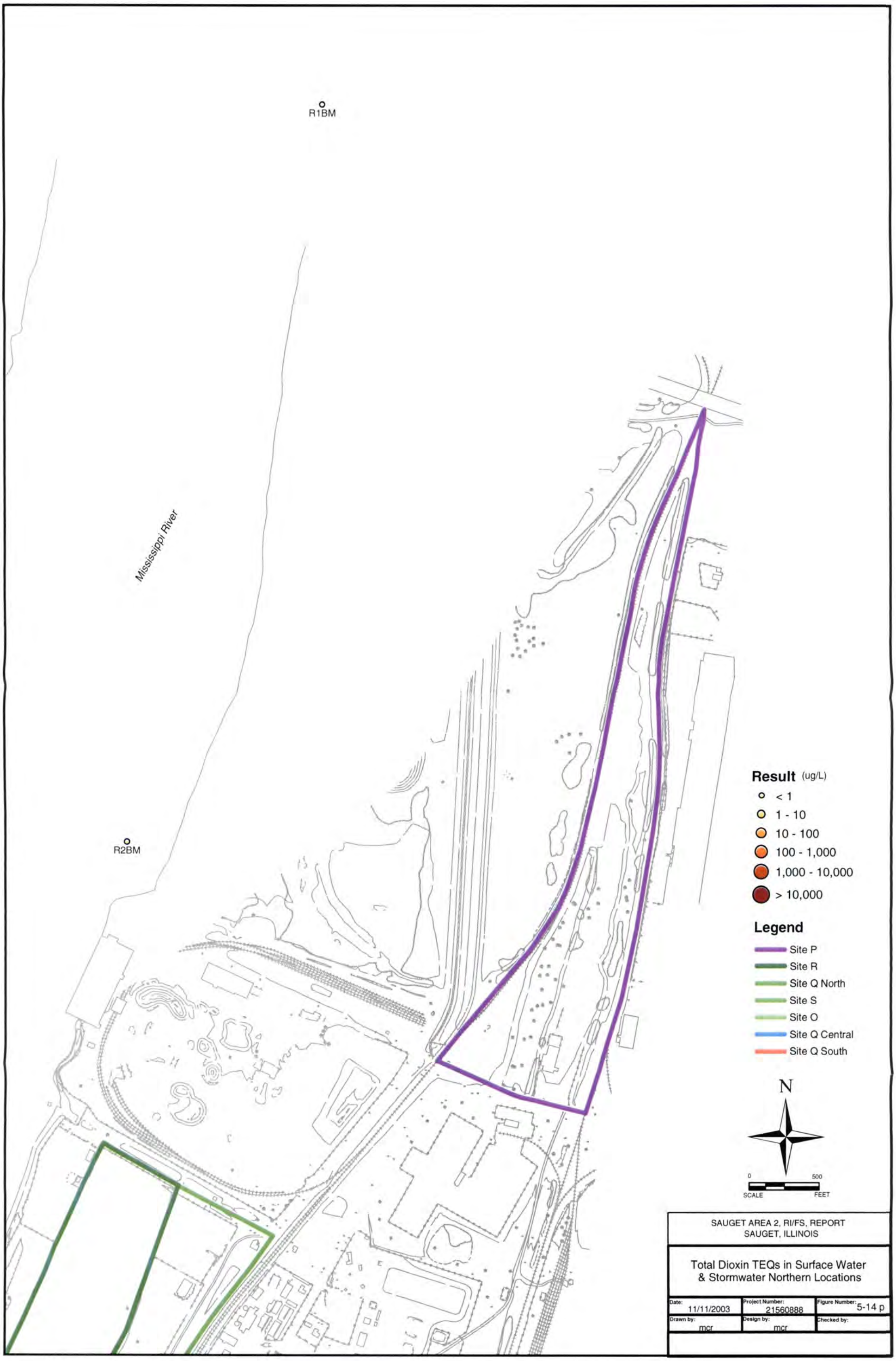
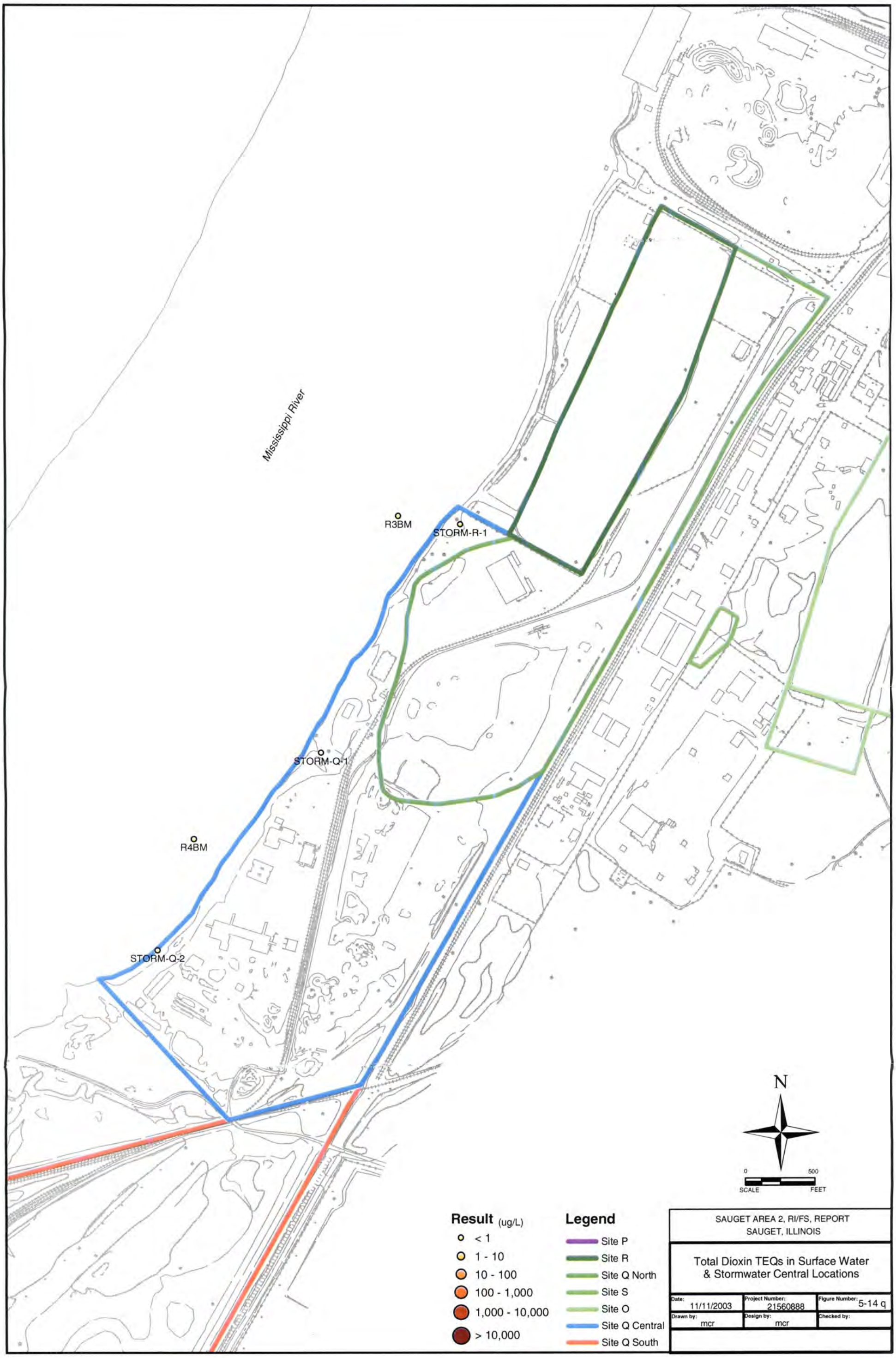
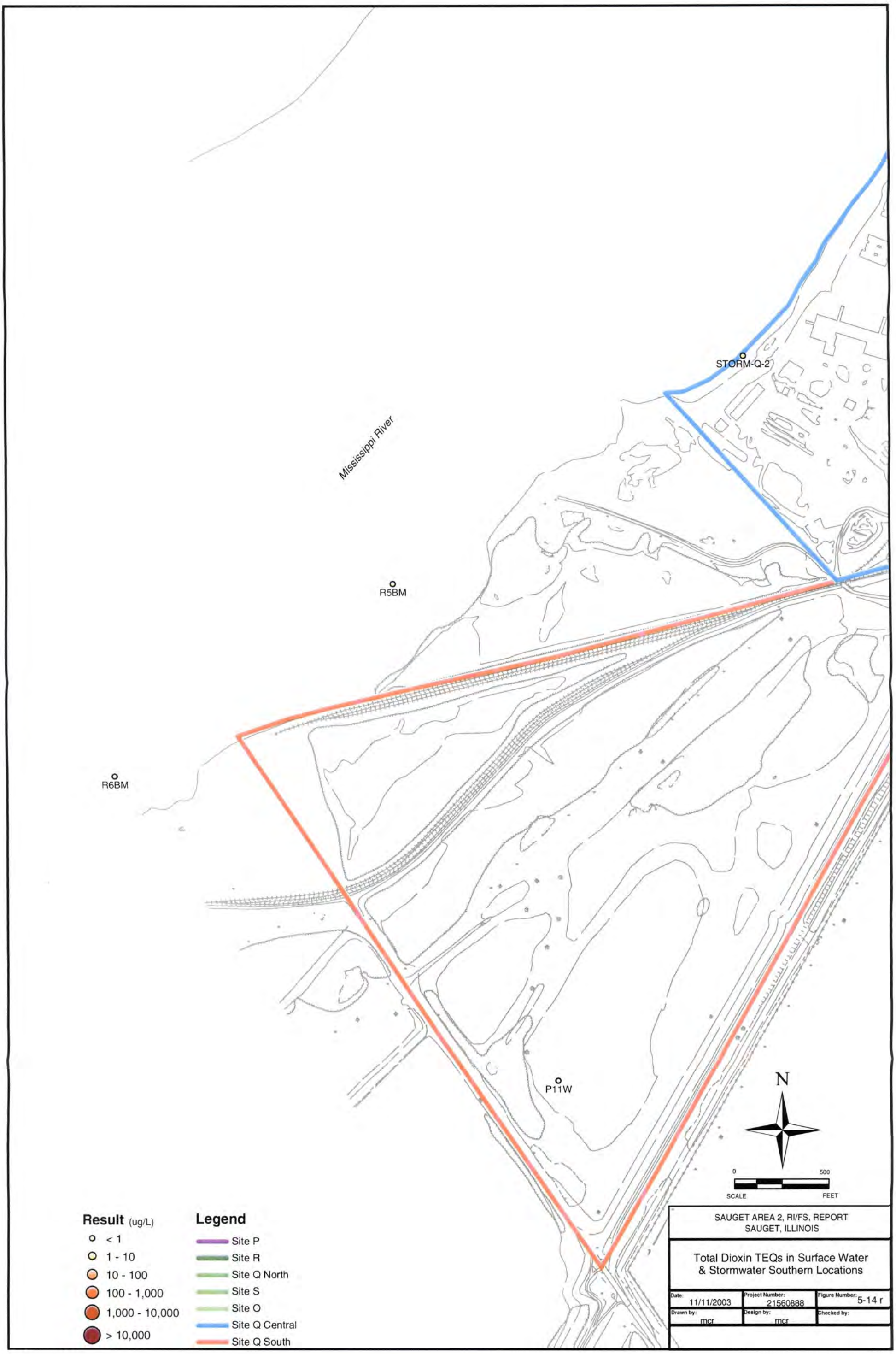
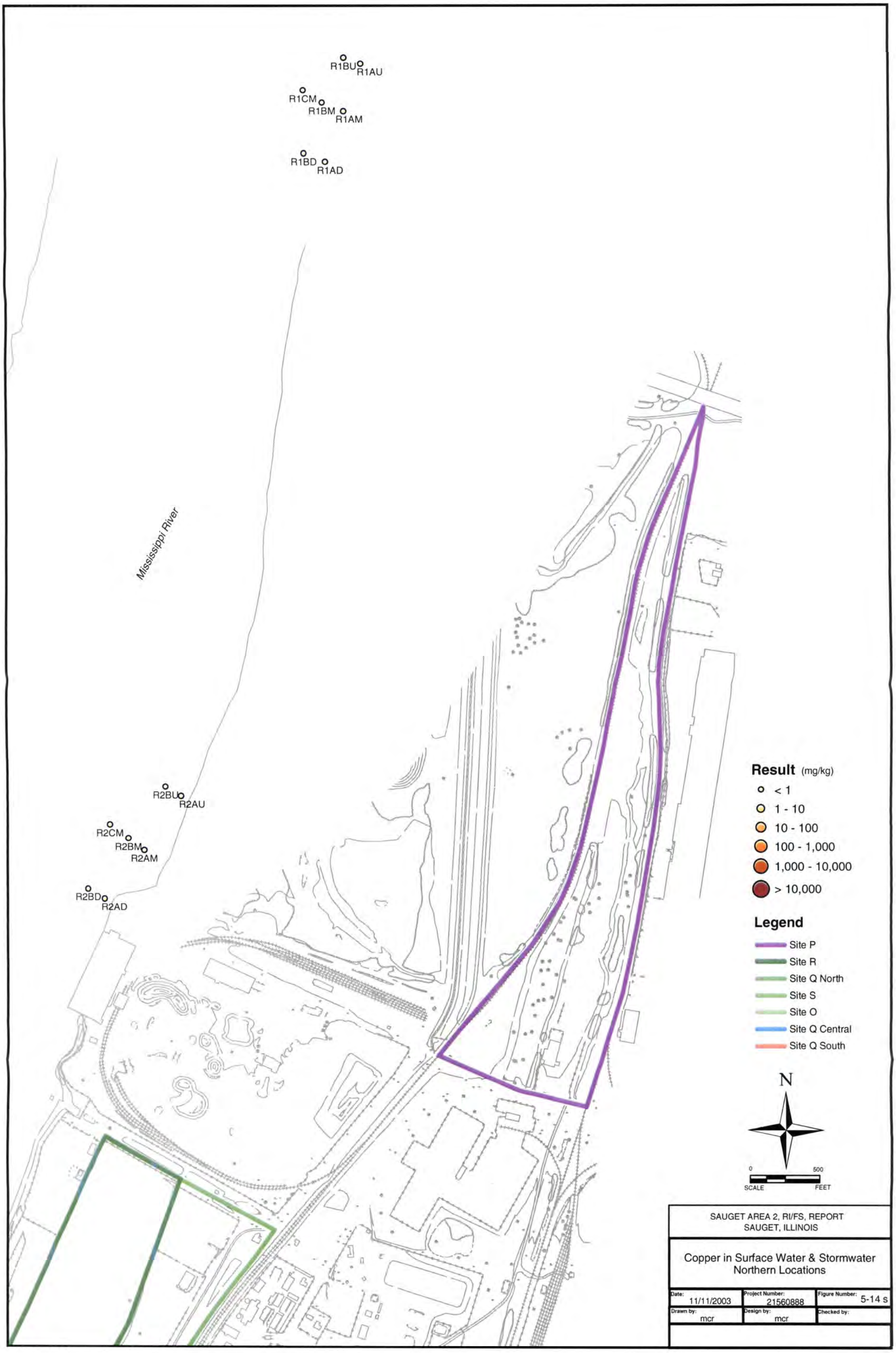
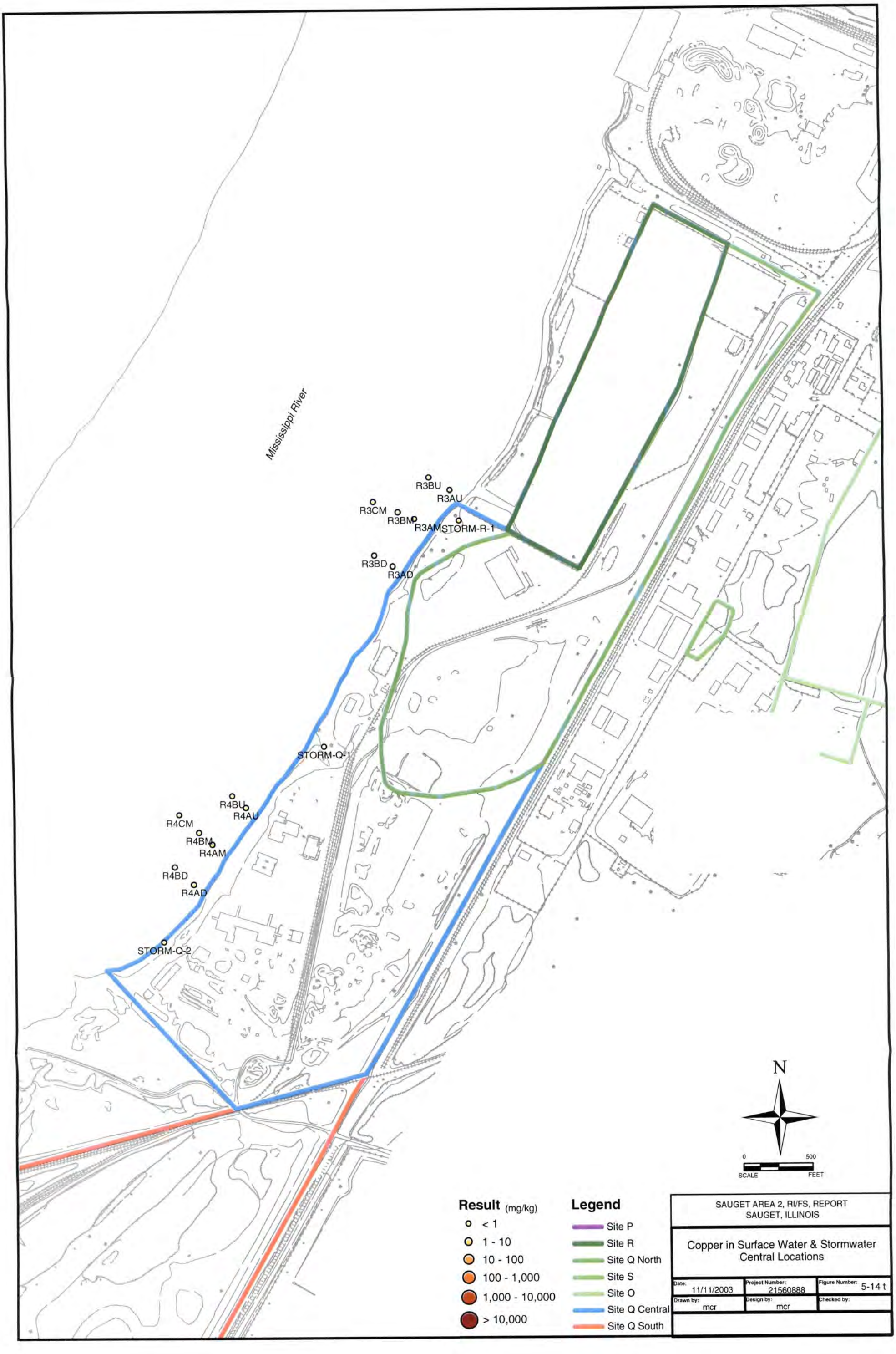
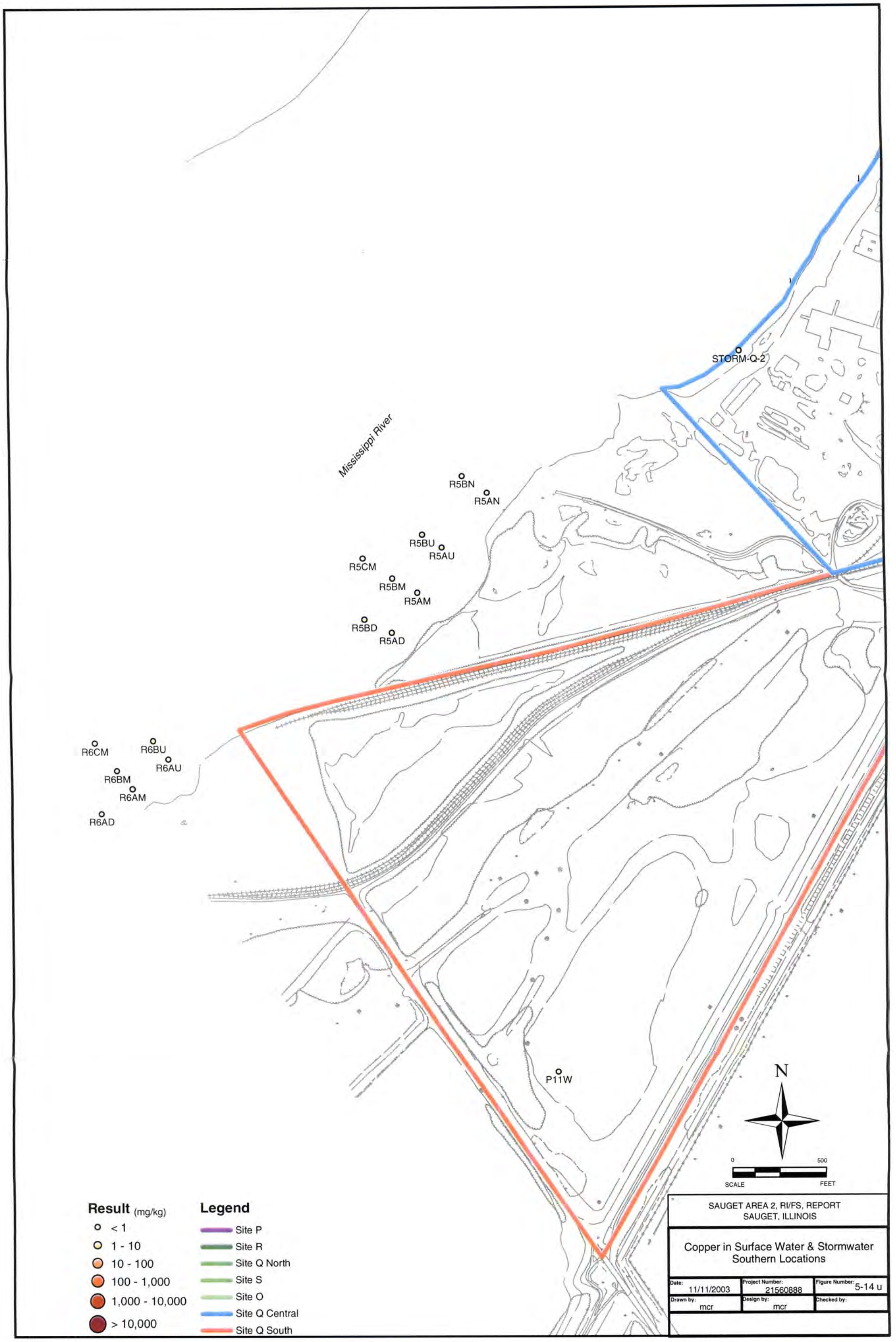

R1BM
Mississippi River
R2BM
Result (ug/L)
< 1
1 - 10
10 - 100
100 - 1,000
1,000 - 10,000
> 10,000
Legend
Site P
Site R
Site Q North
Site S
Site O
Site Q Central
Site Q South
N
0
500
SCALE
FEET
SAUGET AREA 2, RI/FS, REPORT
SAUGET, ILLINOIS
Total Dioxin TEQs in Surface Water
& Stormwater Northern Locations
Date: 11/11/2003
Project Number: 21560888
Figure Number: 5-14 p
Drawn by: mcr
Design by: mcr
Checked by:

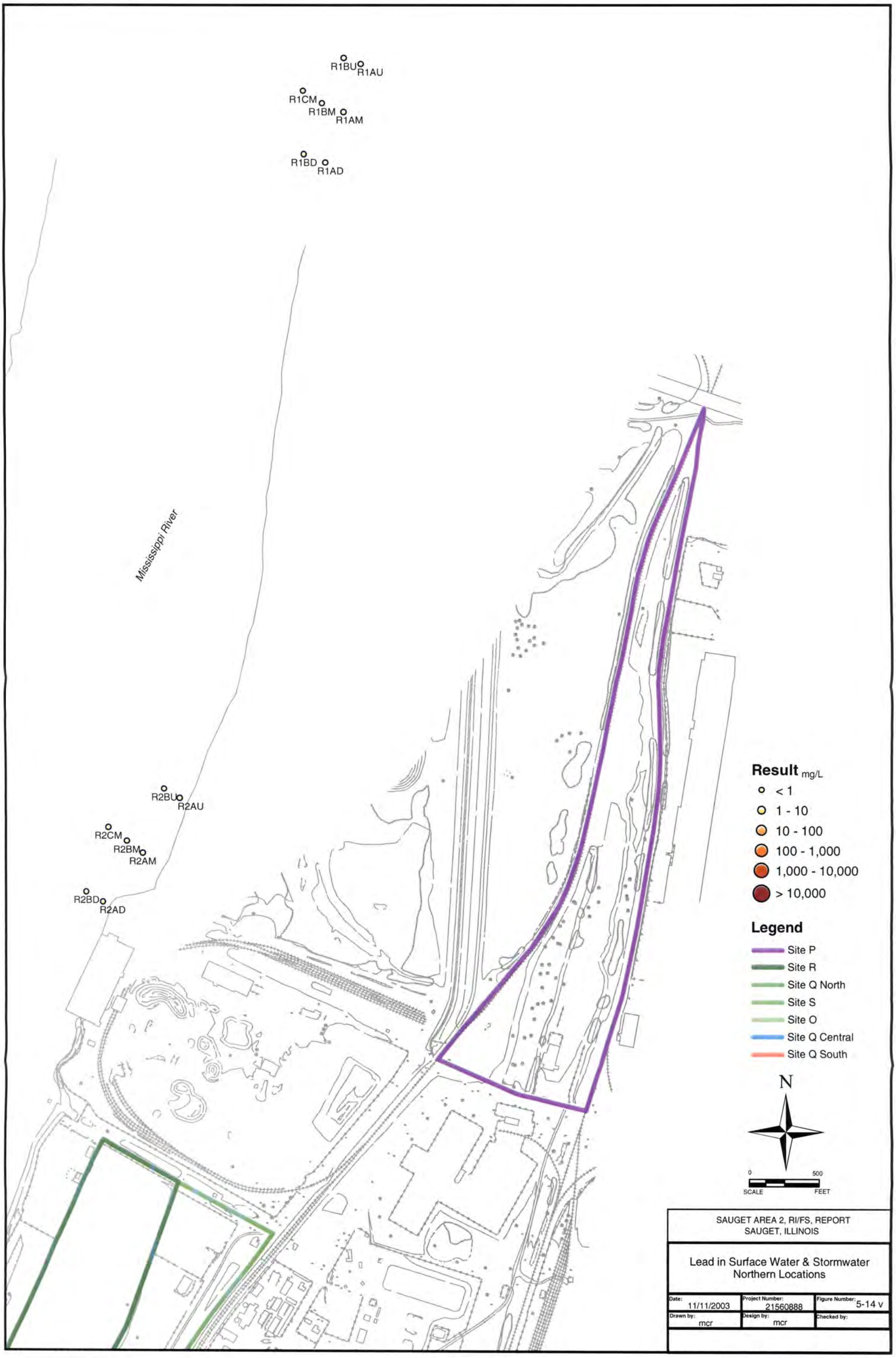

Mississippi River
R3BM
STORM-R-1
STORM-Q-1
R4BM
STORM-Q-2
N
0
500
SCALE
FEET
Result (ug/L)
< 1
1 - 10
10 - 100
100 - 1,000
1,000 - 10,000
> 10,000
Legend
Site P
Site R
Site Q North
Site S
Site O
Site Q Central
Site Q South
SAUGET AREA 2, RI/FS, REPORT
SAUGET, ILLINOIS
Total Dioxin TEQs in Surface Water
& Stormwater Central Locations
Date: 11/11/2003
Project Number: 21560888
Figure Number: 5-14 q
Drawn by: mcr
Design by: mcr
Checked by:

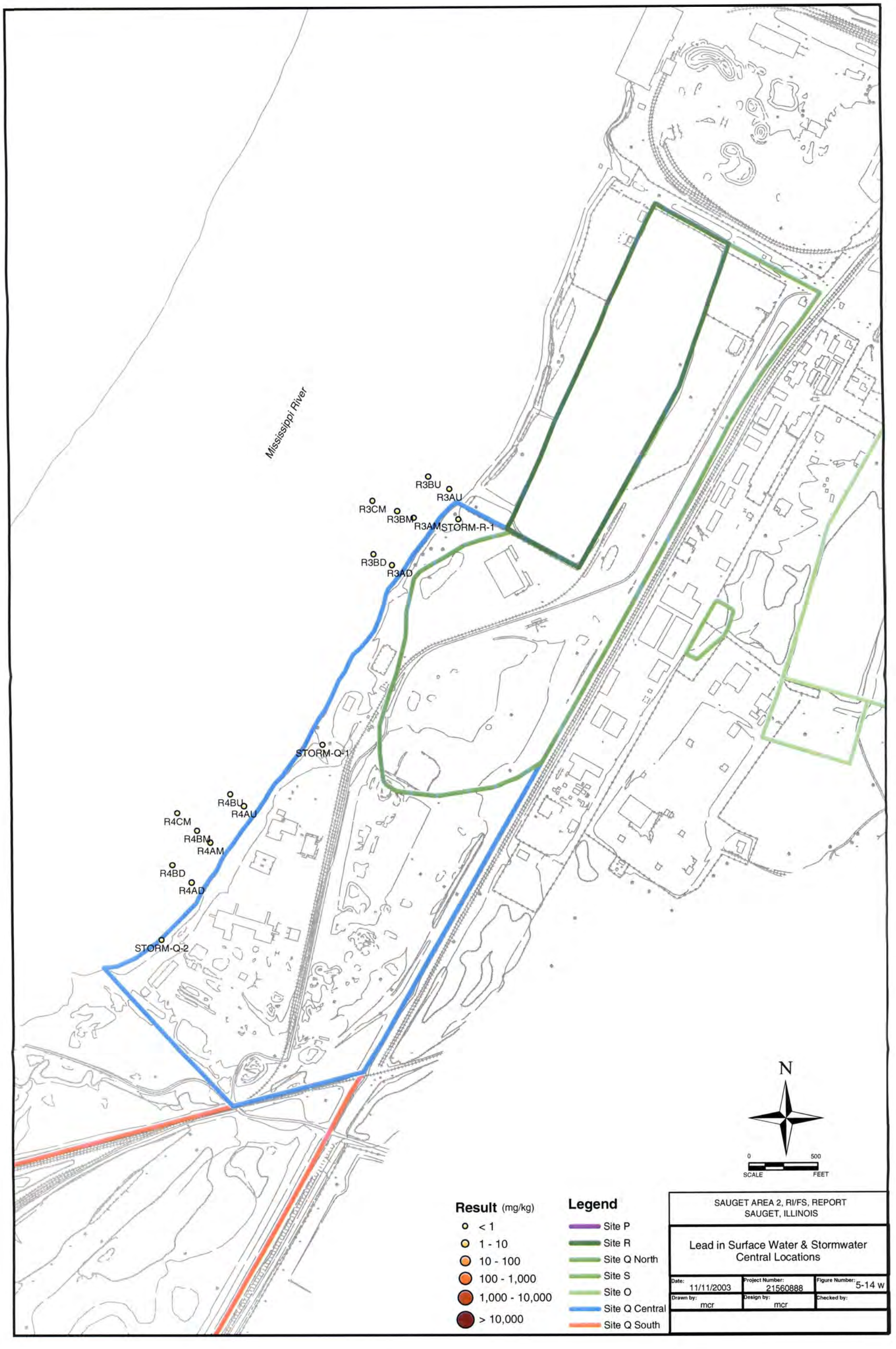

STORM-Q-2
Mississippi River
R5BM
R6BM
P11W
N
0
500
SCALE
FEET
Result (ug/L)
< 1
1 - 10
10 - 100
100 - 1,000
1,000 - 10,000
> 10,000
Legend
Site P
Site R
Site Q North
Site S
Site O
Site Q Central
Site Q South
SAUGET AREA 2, RI/FS, REPORT
SAUGET, ILLINOIS
Total Dioxin TEQs in Surface Water
& Stormwater Southern Locations
Date: 11/11/2003
Project Number: 21560888
Figure Number: 5-14 r
Drawn by: mcr
Design by: mcr
Checked by:

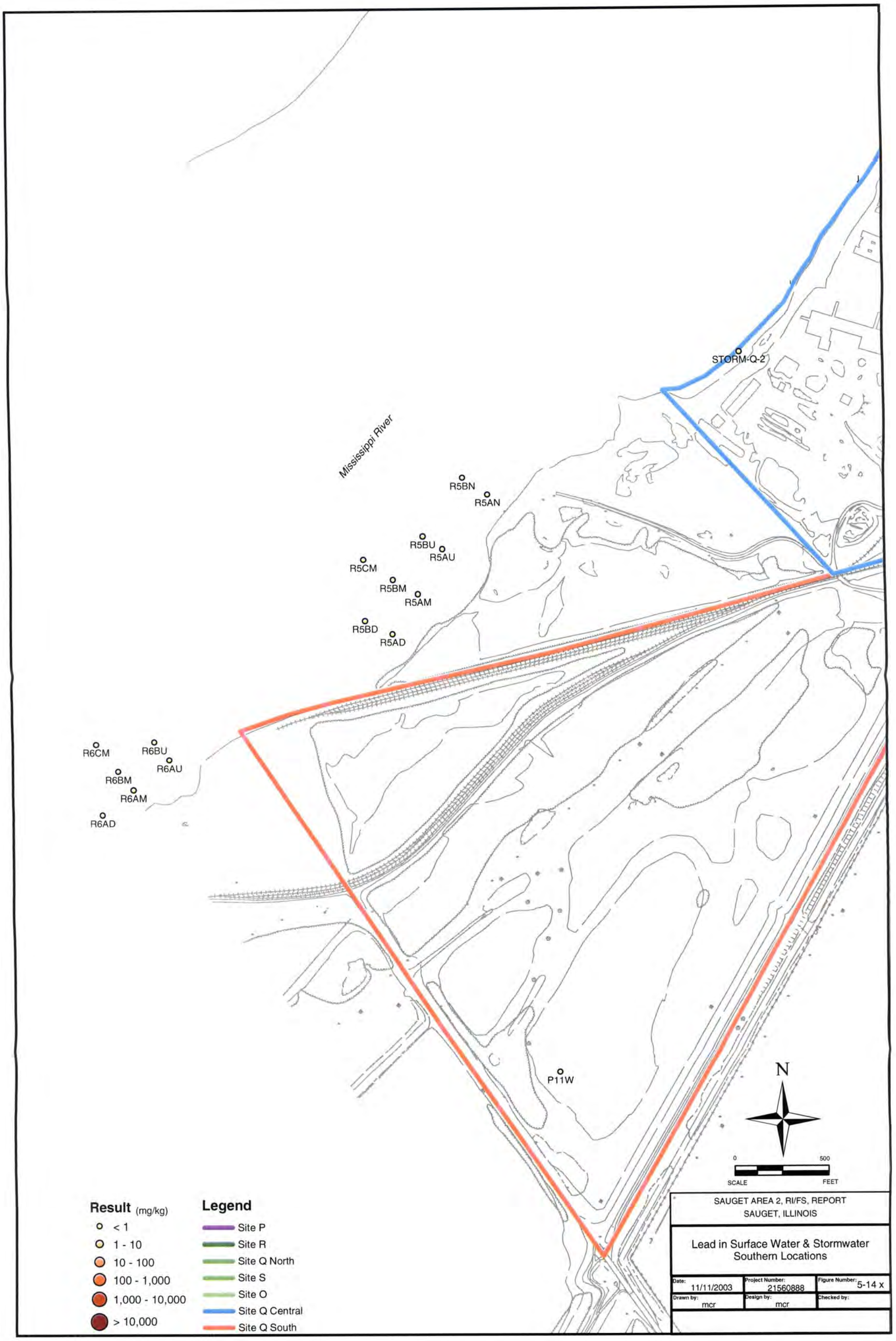

R1BU
R1AU
R1CM
R1BM
R1AM
R1BD
R1AD
Mississippi River
R2BU
R2AU
R2CM
R2BM
R2AM
R2BD
R2AD
Result (mg/kg)
< 1
1 - 10
10 - 100
100 - 1,000
1,000 - 10,000
> 10,000
Legend
Site P
Site R
Site Q North
Site S
Site O
Site Q Central
Site Q South
N
0
500
SCALE
FEET
SAUGET AREA 2, RI/FS, REPORT
SAUGET, ILLINOIS
Copper in Surface Water & Stormwater
Northern Locations
Date: 11/11/2003
Project Number: 21560888
Figure Number: 5-14 s
Drawn by: mcr
Design by: mcr
Checked by:

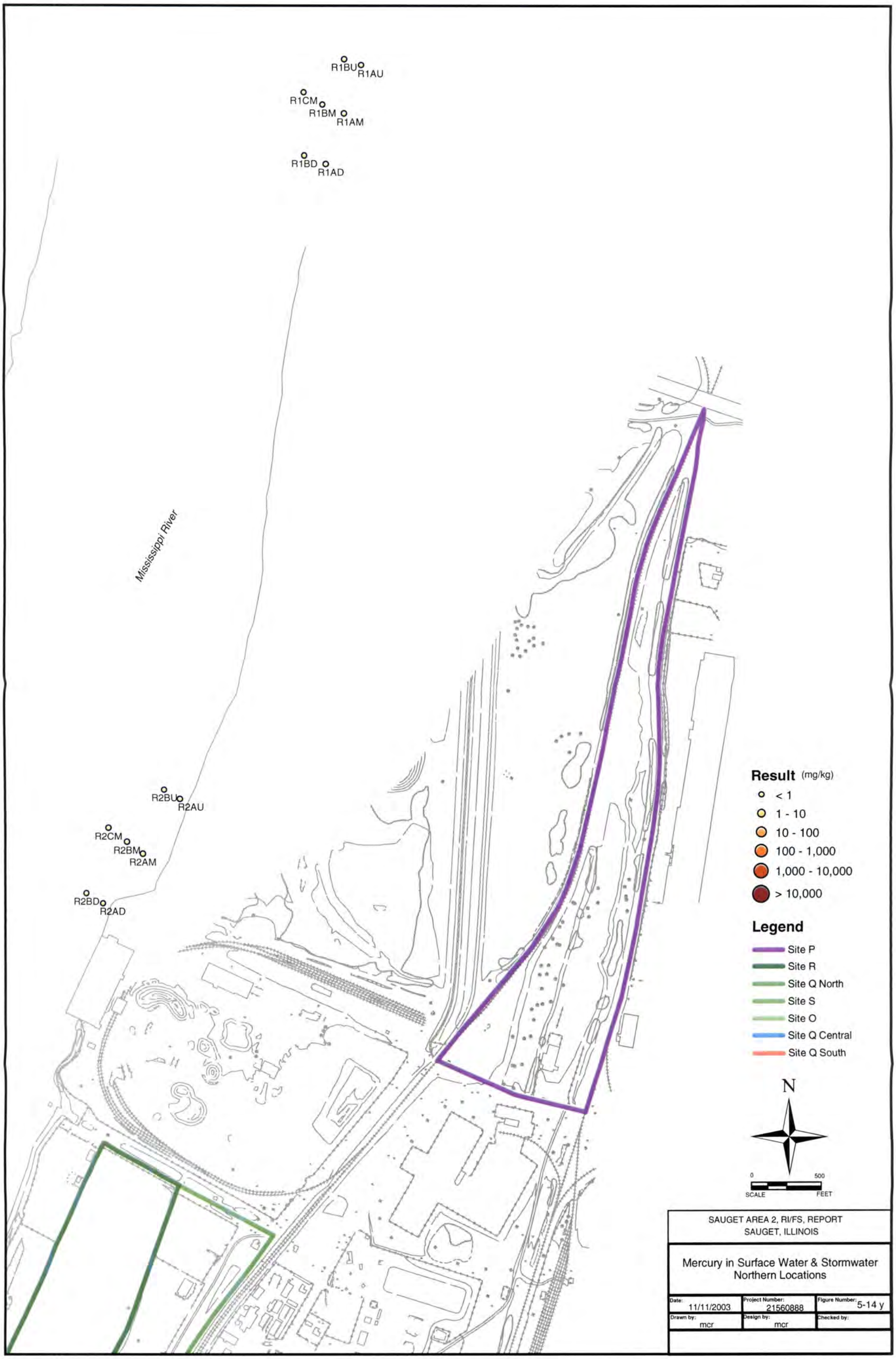

Mississippi River
R3BU
R3AU
R3CM
R3BM
R3AM
STORM-R-1
R3BD
R3AD
STORM-Q-1
R4BU
R4AU
R4CM
R4BM
R4AM
R4BD
R4AD
STORM-Q-2
N
0
500
SCALE
FEET
Result (mg/kg)
< 1
1 - 10
10 - 100
100 - 1,000
1,000 - 10,000
> 10,000
Legend
Site P
Site R
Site Q North
Site S
Site O
Site Q Central
Site Q South
SAUGET AREA 2, RI/FS, REPORT
SAUGET, ILLINOIS
Copper in Surface Water & Stormwater
Central Locations
Date: 11/11/2003
Project Number: 21560888
Figure Number: 5-14 t
Drawn by: mcr
Design by: mcr
Checked by:

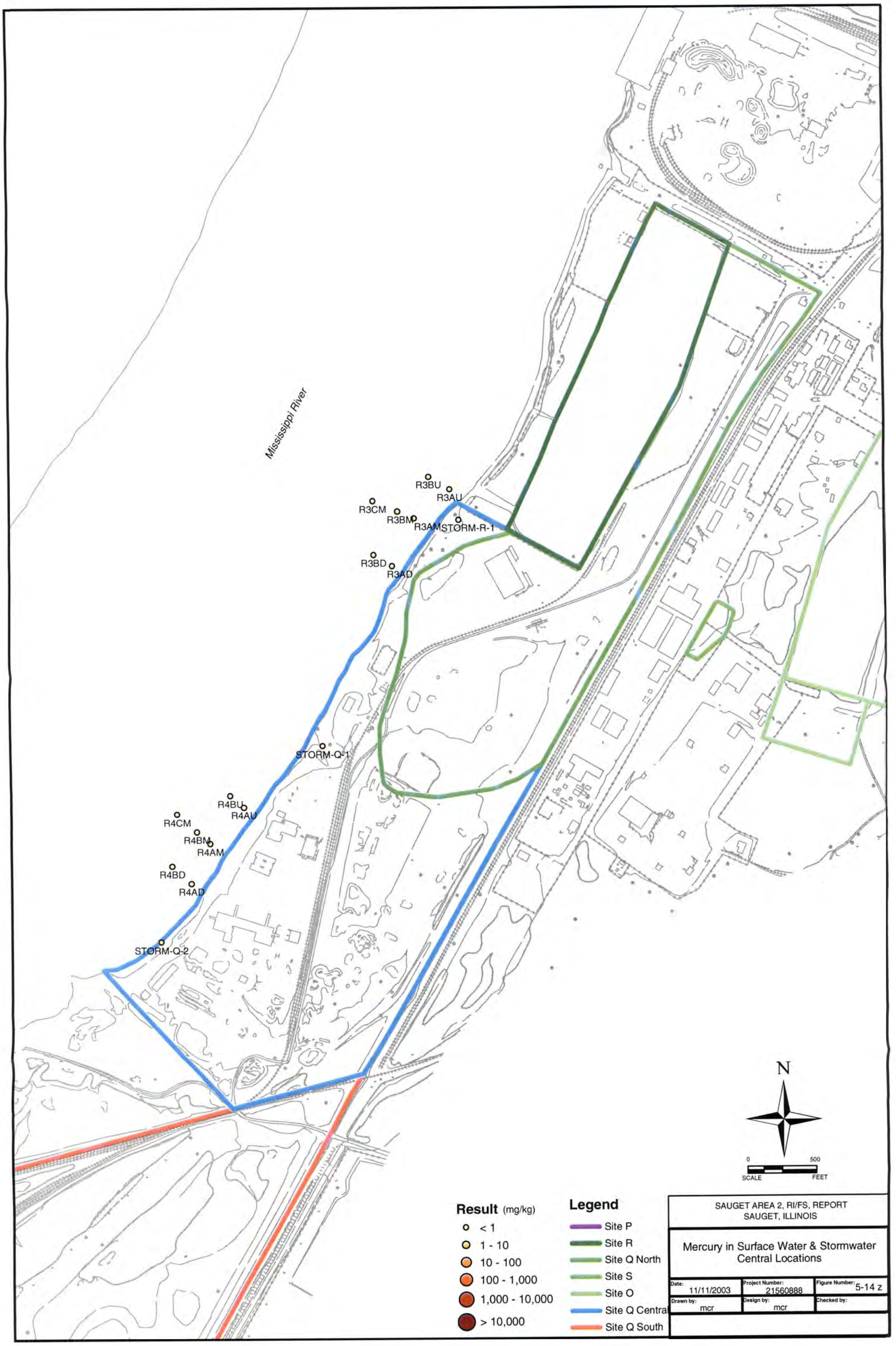

STORM-Q-2
Mississippi River
R5BN
R5AN
R5BU
R5AU
R5CM
R5BM
R5AM
R5BD
R5AD
R6CM
R6BU
R6AU
R6BM
R6AM
R6AD
P11W
N
0
500
SCALE
FEET
Result (mg/kg)
< 1
1 - 10
10 - 100
100 - 1,000
1,000 - 10,000
> 10,000
Legend
Site P
Site R
Site Q North
Site S
Site O
Site Q Central
Site Q South
SAUGET AREA 2, RI/FS, REPORT
SAUGET, ILLINOIS
Copper in Surface Water & Stormwater
Southern Locations
Date: 11/11/2003
Project Number: 21560888
Figure Number: 5-14 u
Drawn by: mcr
Design by: mcr
Checked by:


R1BU
R1AU
R1CM
R1BM
R1AM
R1BD
R1AD
Mississippi River
R2BU
R2AU
R2CM
R2BM
R2AM
R2BD
R2AD
Result mg/L
< 1
1 - 10
10 - 100
100 - 1,000
1,000 - 10,000
> 10,000
Legend
Site P
Site R
Site Q North
Site S
Site O
Site Q Central
Site Q South
N
0
500
SCALE
FEET
SAUGET AREA 2, RI/FS, REPORT
SAUGET, ILLINOIS
Lead in Surface Water & Stormwater
Northern Locations
Date: 11/11/2003
Project Number: 21560888
Figure Number: 5-14 v
Drawn by: mcr
Design by: mcr
Checked by:


Mississippi River
R3BU
R3AU
R3CM
R3BM
R3AM
STORM-R-1
R3BD
R3AD
STORM-Q-1
R4BU
R4AU
R4CM
R4BM
R4AM
R4BD
R4AD
STORM-Q-2
N
0
500
SCALE
FEET
Result (mg/kg)
< 1
1 - 10
10 - 100
100 - 1,000
1,000 - 10,000
> 10,000
Legend
Site P
Site R
Site Q North
Site S
Site O
Site Q Central
Site Q South
SAUGET AREA 2, RI/FS, REPORT
SAUGET, ILLINOIS
Lead in Surface Water & Stormwater
Central Locations
Date: 11/11/2003
Project Number: 21560888
Figure Number: 5-14 w
Drawn by: mcr
Design by: mcr
Checked by:


STORM-Q-2
Mississippi River
R5BN
R5AN
R5BU
R5AU
R5CM
R5BM
R5AM
R5BD
R5AD
R6CM
R6BU
R6AU
R6BM
R6AM
R6AD
P11W
N
0
500
SCALE
FEET
Result (mg/kg)
< 1
1 - 10
10 - 100
100 - 1,000
1,000 - 10,000
> 10,000
Legend
Site P
Site R
Site Q North
Site S
Site O
Site Q Central
Site Q South
SAUGET AREA 2, RI/FS, REPORT
SAUGET, ILLINOIS
Lead in Surface Water & Stormwater
Southern Locations
Date: 11/11/2003
Project Number: 21560888
Figure Number: 5-14 x
Drawn by: mcr
Design by: mcr
Checked by:


R1BU
R1AU
R1CM
R1BM
R1AM
R1BD
R1AD
Mississippi River
R2BU
R2AU
R2CM
R2BM
R2AM
R2BD
R2AD
Result (mg/kg)
< 1
1 - 10
10 - 100
100 - 1,000
1,000 - 10,000
> 10,000
Legend
Site P
Site R
Site Q North
Site S
Site O
Site Q Central
Site Q South
N
0
500
SCALE
FEET
SAUGET AREA 2, RI/FS, REPORT
SAUGET, ILLINOIS
Mercury in Surface Water & Stormwater
Northern Locations
Date: 11/11/2003
Project Number: 21560888
Figure Number: 5-14 y
Drawn by: mcr
Design by: mcr
Checked by:


Mississippi River
R3BU
R3AU
R3CM
R3BM
R3AM
STORM-R-1
R3BD
R3AD
STORM-Q-1
R4BU
R4AU
R4CM
R4BM
R4AM
R4BD
R4AD
STORM-Q-2
N
0
500
SCALE
FEET
Result (mg/kg)
< 1
1 - 10
10 - 100
100 - 1,000
1,000 - 10,000
> 10,000
Legend
Site P
Site R
Site Q North
Site S
Site O
Site Q Central
Site Q South
SAUGET AREA 2, RI/FS, REPORT
SAUGET, ILLINOIS
Mercury in Surface Water & Stormwater
Central Locations
Date: 11/11/2003
Project Number: 21560888
Figure Number: 5-14 z
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Design by: mcr
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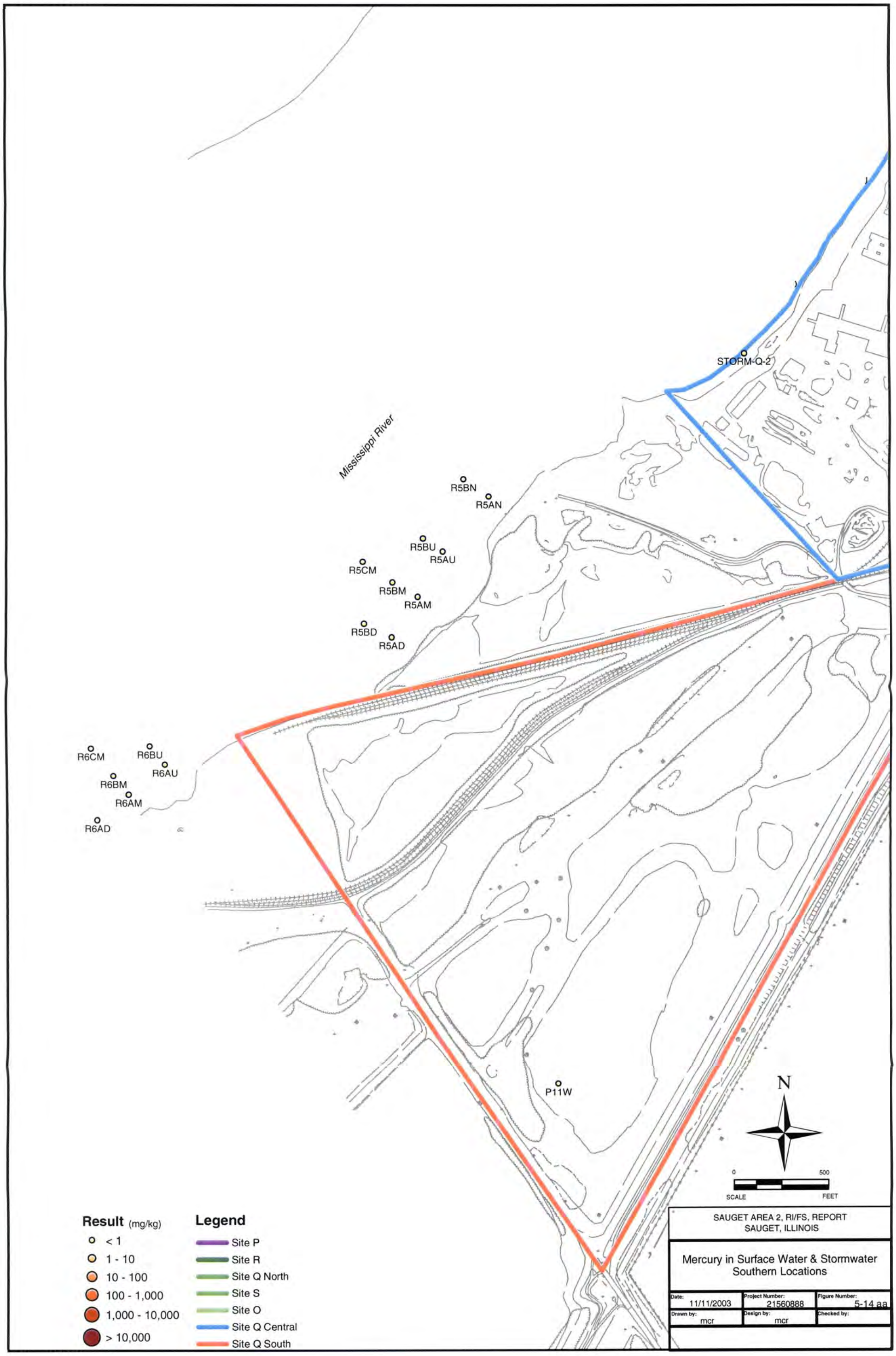
STORM-Q-2
Mississippi River
R5BN
R5AN
R5BU
R5AU
R5CM
R5BM
R5AM
R5BD
R5AD
R6CM
R6BU
R6AU
R6BM
R6AM
R6AD
P11W
N
0
500
SCALE
FEET
Result (mg/kg)
< 1
1 - 10
10 - 100
100 - 1,000
1,000 - 10,000
> 10,000
Legend
Site P
Site R
Site Q North
Site S
Site O
Site Q Central
Site Q South
SAUGET AREA 2, RI/FS, REPORT
SAUGET, ILLINOIS
Mercury in Surface Water & Stormwater
Southern Locations
Date: 11/11/2003
Project Number: 21560888
Figure Number: 5-14 aa
Drawn by: mcr
Design by: mcr
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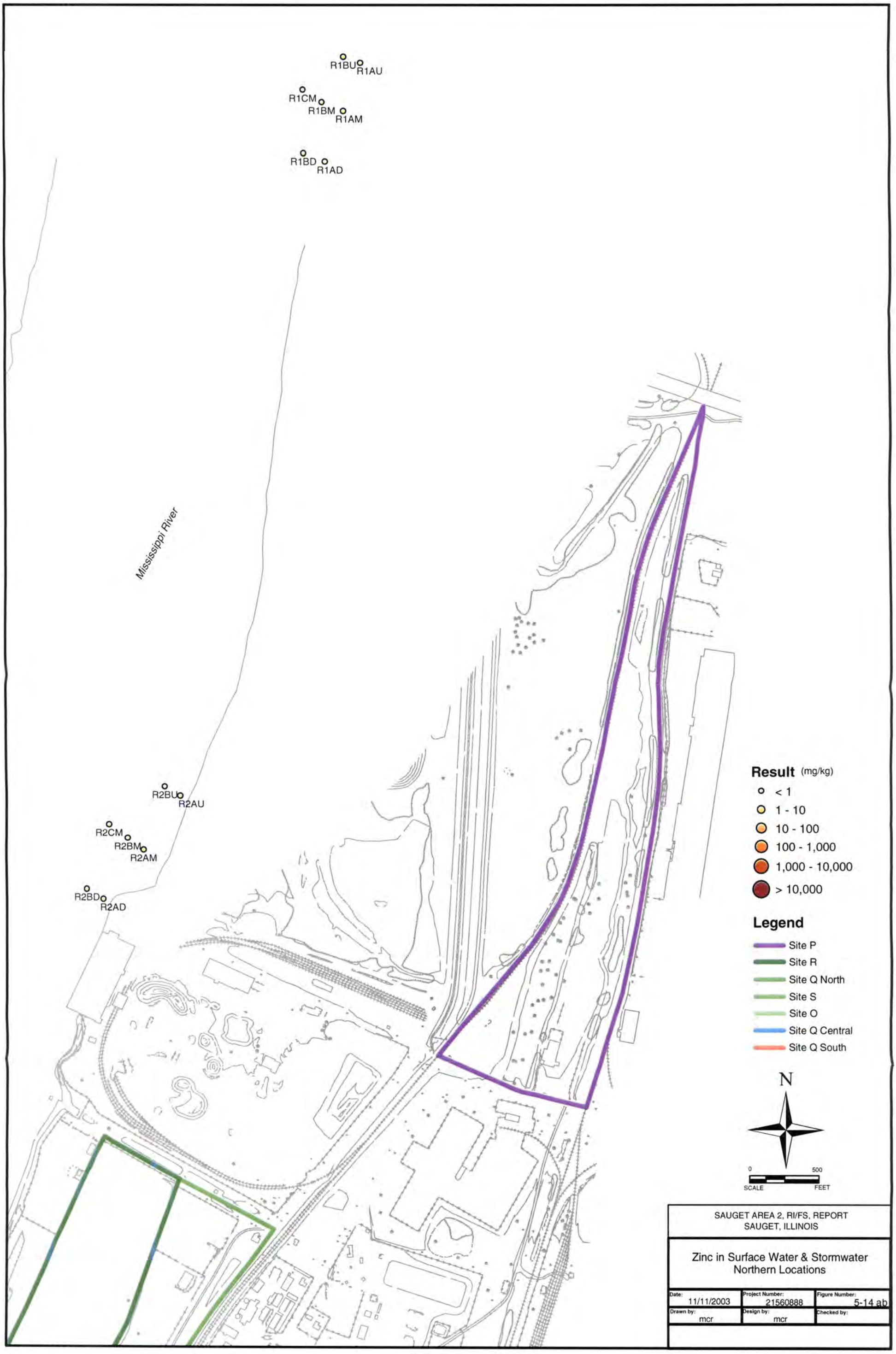
R1BU
R1AU
R1CM
R1BM
R1AM
R1BD
R1AD
Mississippi River
R2BU
R2AU
R2CM
R2BM
R2AM
R2BD
R2AD
Result (mg/kg)
< 1
1 - 10
10 - 100
100 - 1,000
1,000 - 10,000
> 10,000
Legend
Site P
Site R
Site Q North
Site S
Site O
Site Q Central
Site Q South
N
0
500
SCALE
FEET
SAUGET AREA 2, RI/FS, REPORT
SAUGET, ILLINOIS
Zinc in Surface Water & Stormwater
Northern Locations
Date: 11/11/2003
Project Number: 21560888
Figure Number: 5-14 ab
Drawn by: mcr
Design by: mcr
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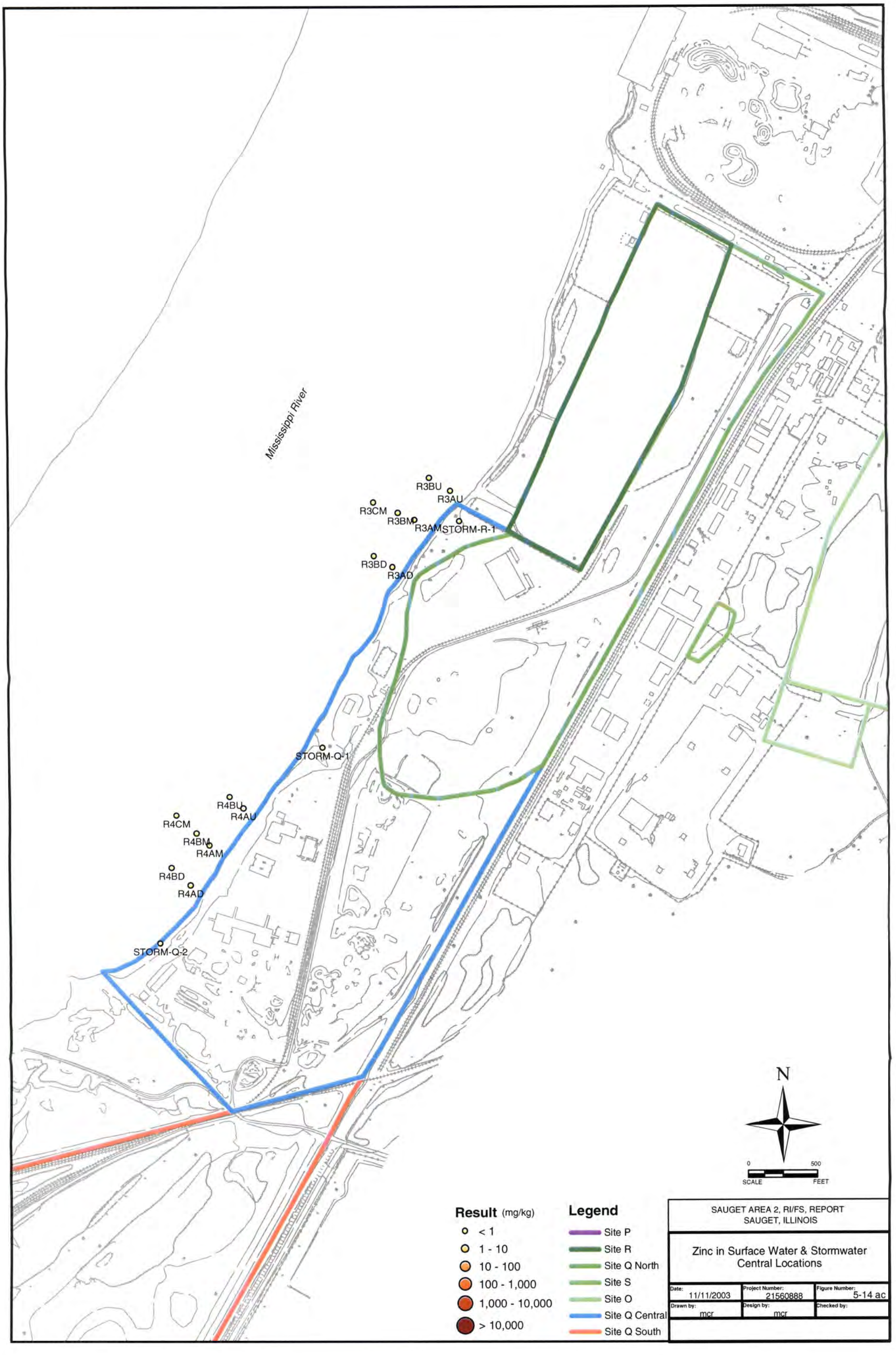
Mississippi River
R3BU
R3AU
R3CM
R3BM
R3AM
STORM-R-1
R3BD
R3AD
STORM-Q-1
R4BU
R4AU
R4CM
R4BM
R4AM
R4BD
R4AD
STORM-Q-2
N
0
500
SCALE
FEET
Result (mg/kg)
< 1
1 - 10
10 - 100
100 - 1,000
1,000 - 10,000
> 10,000
Legend
Site P
Site R
Site Q North
Site S
Site O
Site Q Central
Site Q South
SAUGET AREA 2, RI/FS, REPORT
SAUGET, ILLINOIS
Zinc in Surface Water & Stormwater
Central Locations
Date: 11/11/2003
Project Number: 21560888
Figure Number: 5-14 ac
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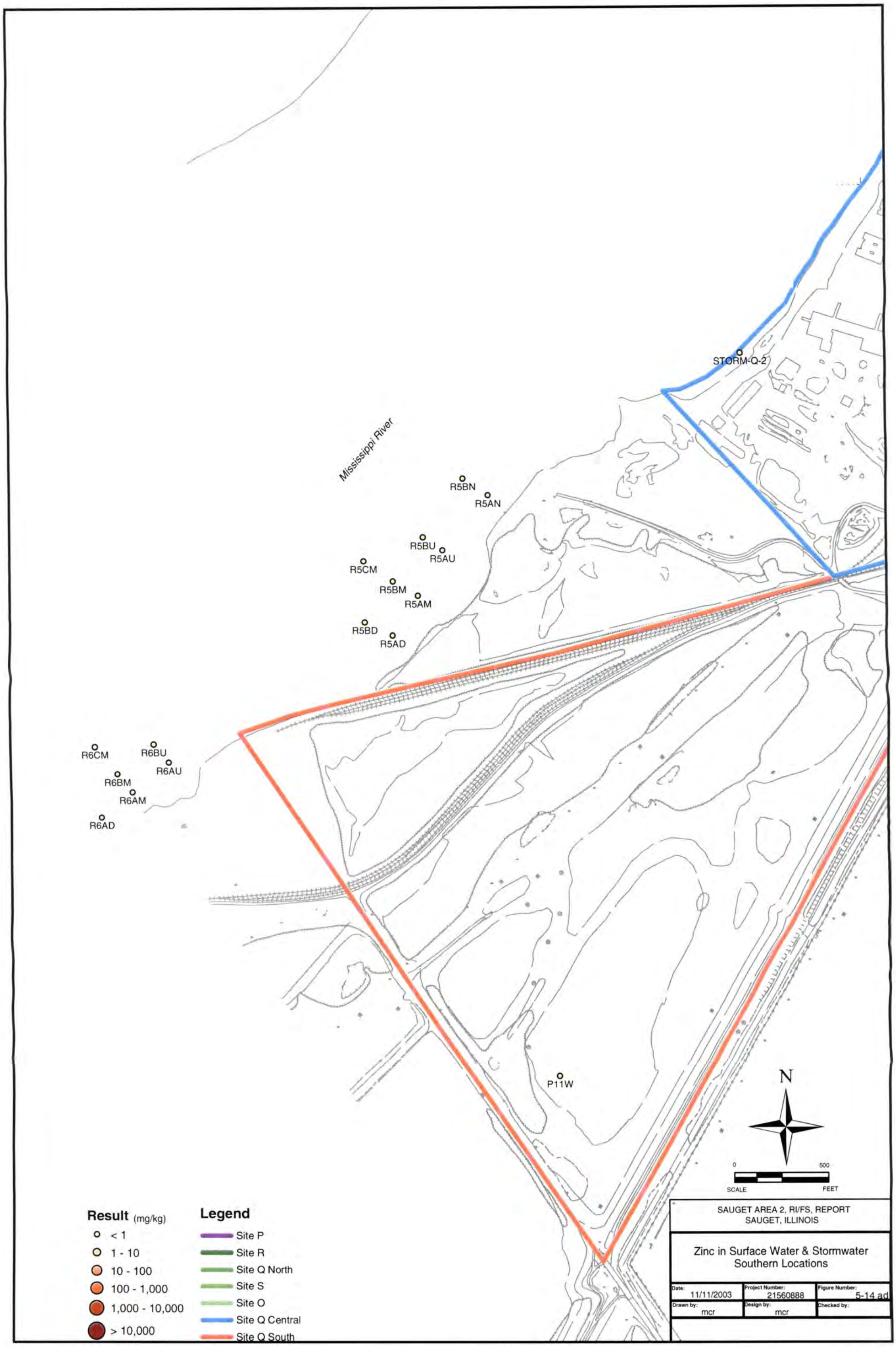
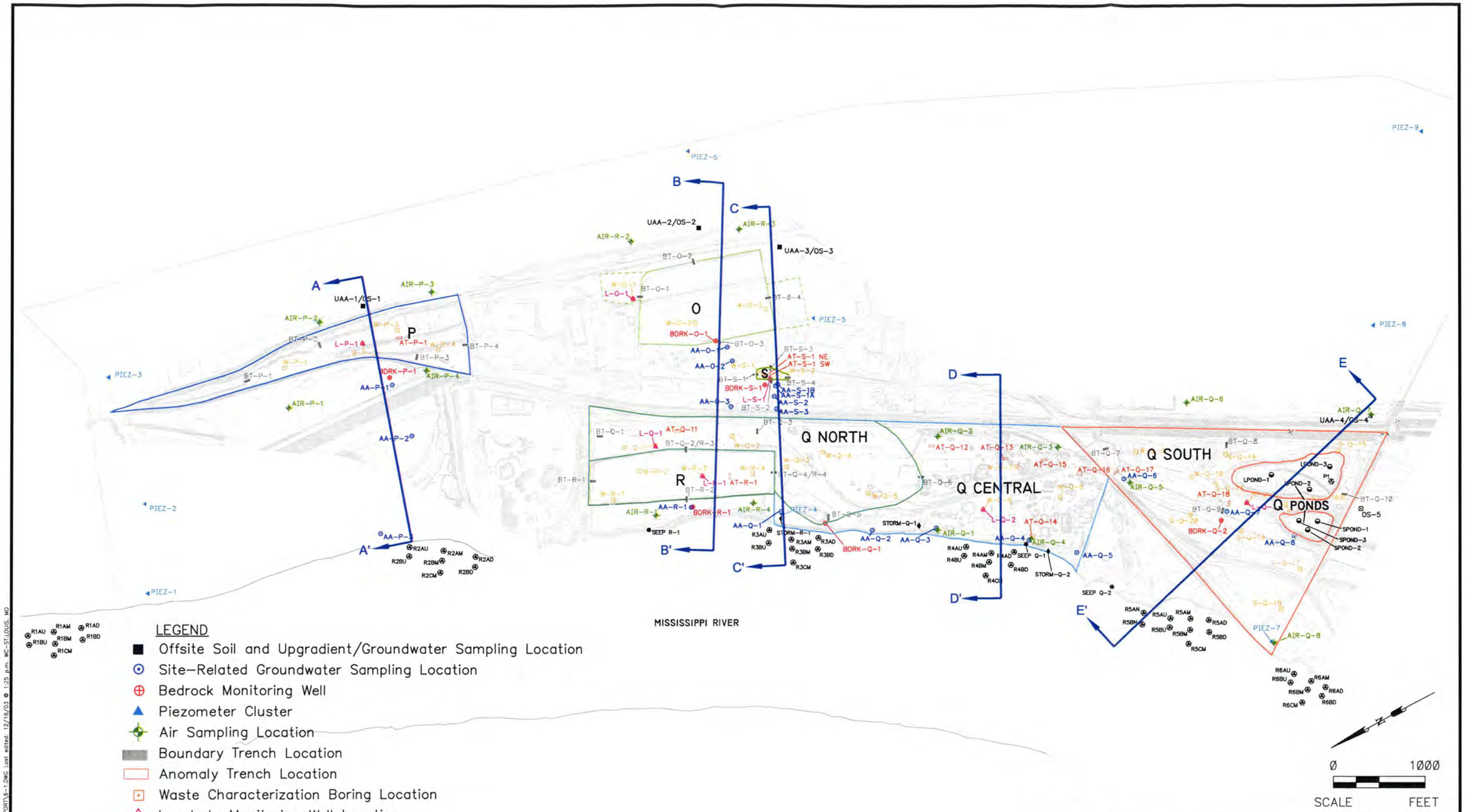
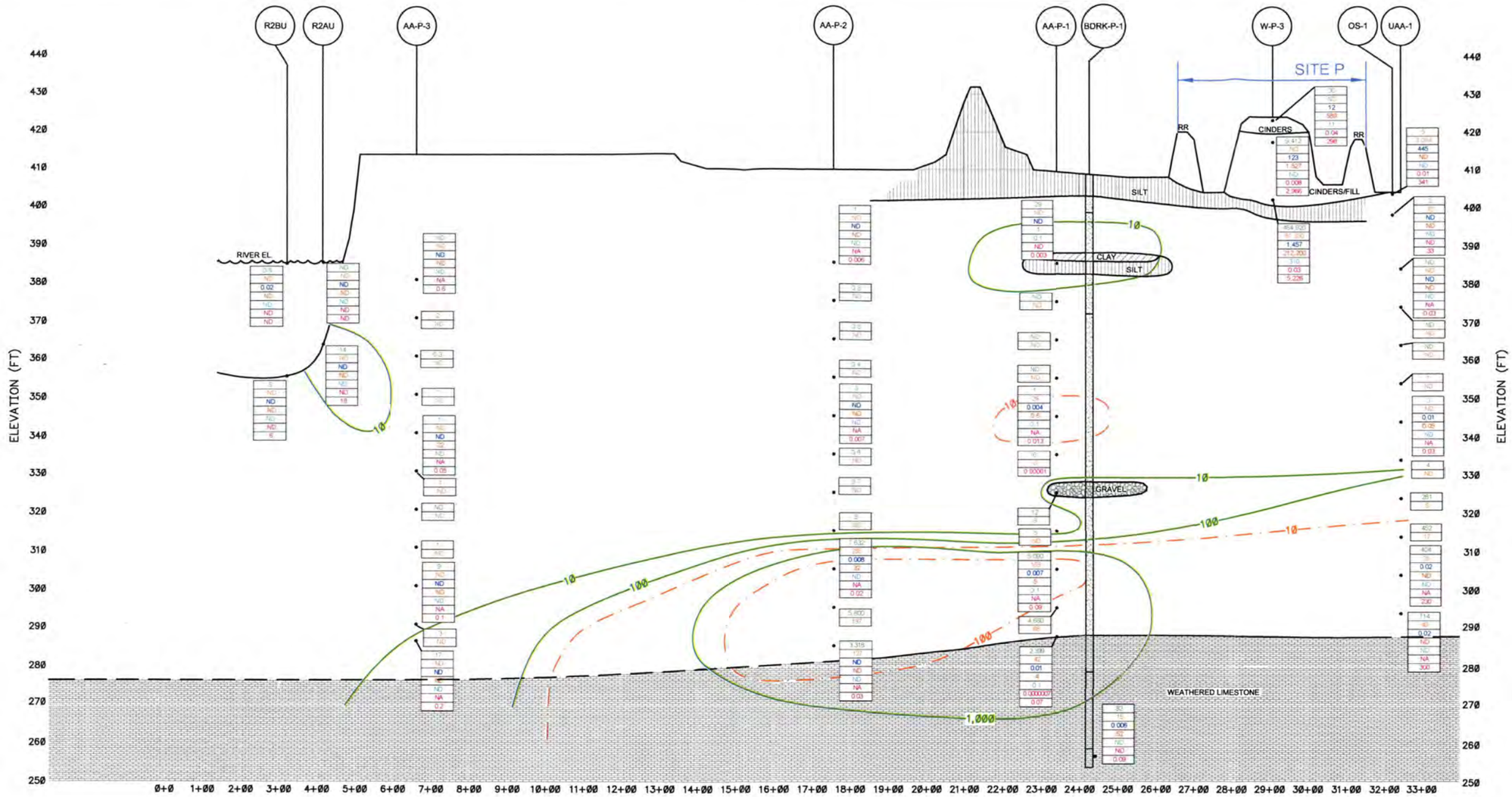
Design by: mcr
Checked by:


STORM-Q-2
Mississippi River
R5BN
R5AN
R5BU
R5AU
R5CM
R5BM
R5AM
R5BD
R5AD
R6CM
R6BU
R6AU
R6BM
R6AM
R6AD
P11W
N
0
500
SCALE
FEET
Result (mg/kg)
< 1
1 - 10
10 - 100
100 - 1,000
1,000 - 10,000
> 10,000
Legend
Site P
Site R
Site Q North
Site S
Site O
Site Q Central
Site Q South
SAUGET AREA 2, RI/FS, REPORT
SAUGET, ILLINOIS
Zinc in Surface Water & Stormwater
Southern Locations
Date: 11/11/2003
Project Number: 21560888
Figure Number: 5-14 ad
Drawn by: mcr
Design by: mcr
Checked by:



SAUGET AREA 2 RI/FS SAUGET ILLINOIS	PROJECT NO. 21560888.07001
URS	
DRN. BY:djd 10/7/03 DSGN. BY:bh CHKD. BY:	Sample Location Map with Cross Section Locations
	FIG. NO. 6-1

File: E:\21560888.04001\REPORTS\RI_FS REPORT\6-1.DWG Last edited: 12/16/03 @ 1:25 p.m. WC-ST.LOUIS, MO



LEGEND

TOTAL VOCs	TOTAL VOCs	TOTAL VOCs
TOTAL SVOCs	TOTAL SVOCs	TOTAL SVOCs
TOTAL PESTICIDES	TOTAL DIOXIN	
TOTAL HERBICIDES		
TOTAL PCBs		
TOTAL DIOXIN		
TOTAL METALS		

SVOC (ppb)

VOC (ppb)

R2BU - RIVER SAMPLE - SURFACE WATER & SEDIMENT
AA - ALLUVIAL AQUIFER
BDRK - BEDROCK MONITORING WELL
L - LEACHATE MONITORING WELL
W - SOIL/WASTE SAMPLE
OS - OFF SITE SOIL SAMPLE
UAA - UPGRADIENT ALLUVIAL AQUIFER
WASTE SAMPLE - VOCs & DIOXIN SAMPLES COLLECTED AT THE SPECIFIED INTERVAL. THE REST OF ANALYTES COLLECTED FROM COMPOSITE

NOTES:

1) ALL CONCENTRATIONS IN ppb EXCEPT METALS (ppm)

2) * TOTAL METALS - INCLUDE TOTAL FOR ONLY COPPER, LEAD, MERCURY, AND ZINC.

3) BEDROCK WELL AND LEACHATE DATA FROM SEPTEMBER 2002 SAMPLING EVENT

0 30
VERTICAL SCALE

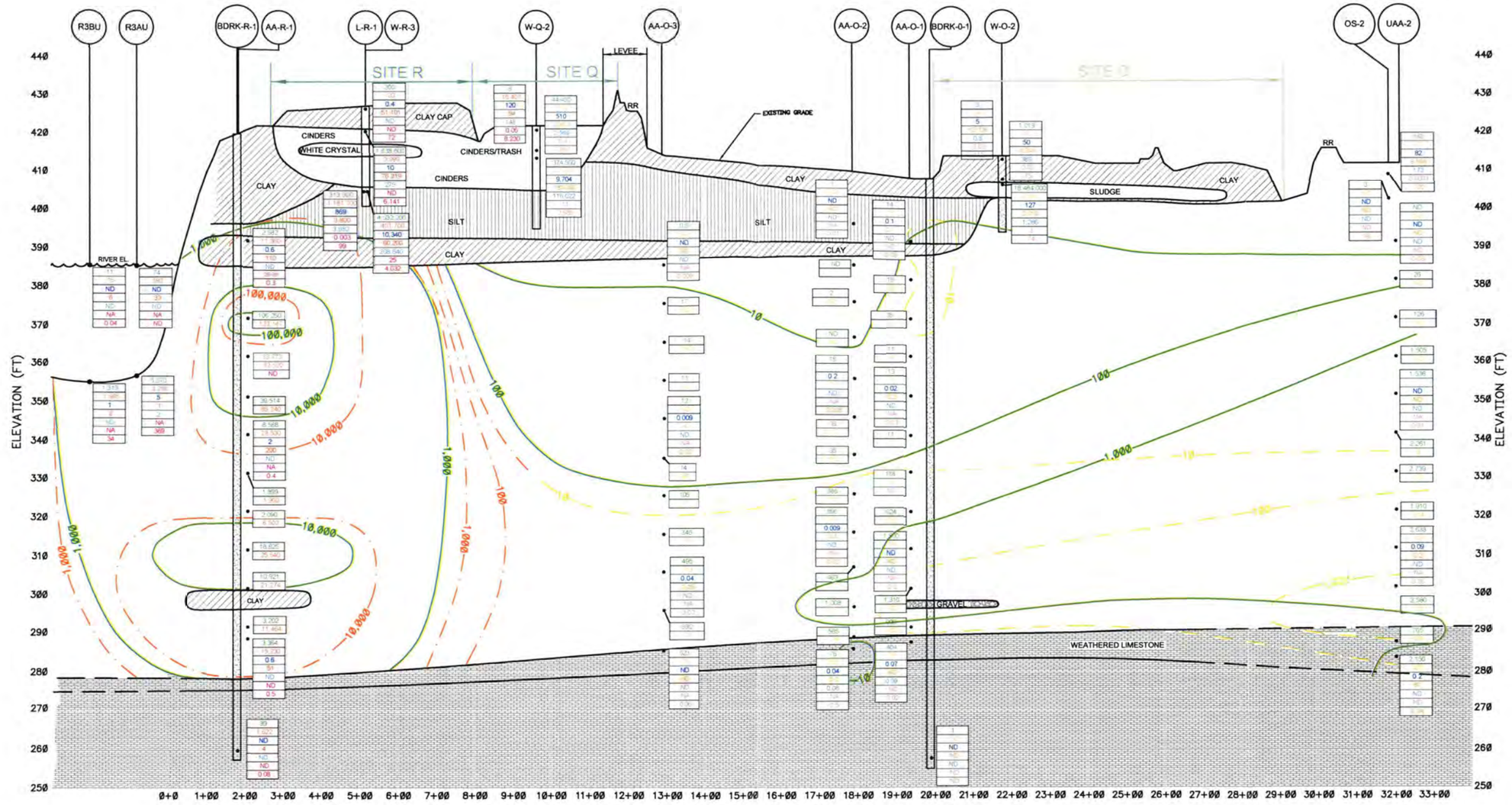
0 300
HORIZONTAL SCALE

SAUGET AREA 2 RI/FS SAUGET ILLINOIS	PROJECT NO. 21560888.07001

URS

DRN. BY:djd 10/7/03 DSGN. BY:bh CHKD. BY:	Geologic Cross Section A–A'	FIG. NO. 6–2

File: E:\21560888.04001\REPORTS\RI_FS REPORT\6-2.DWG Last edited: DEC. 16, 03 @ 1:26 p.m. by: DJDEGUIO



LEGEND

TOTAL VOCs	TOTAL VOCs	TOTAL VOCs
TOTAL SVOCs	TOTAL SVOCs	TOTAL SVOCs
TOTAL PESTICIDES	TOTAL DIOXIN	
TOTAL HERBICIDES		
TOTAL PCBs		
TOTAL DIOXIN		
TOTAL METALS		

SVOC (ppb)

VOC (ppb)

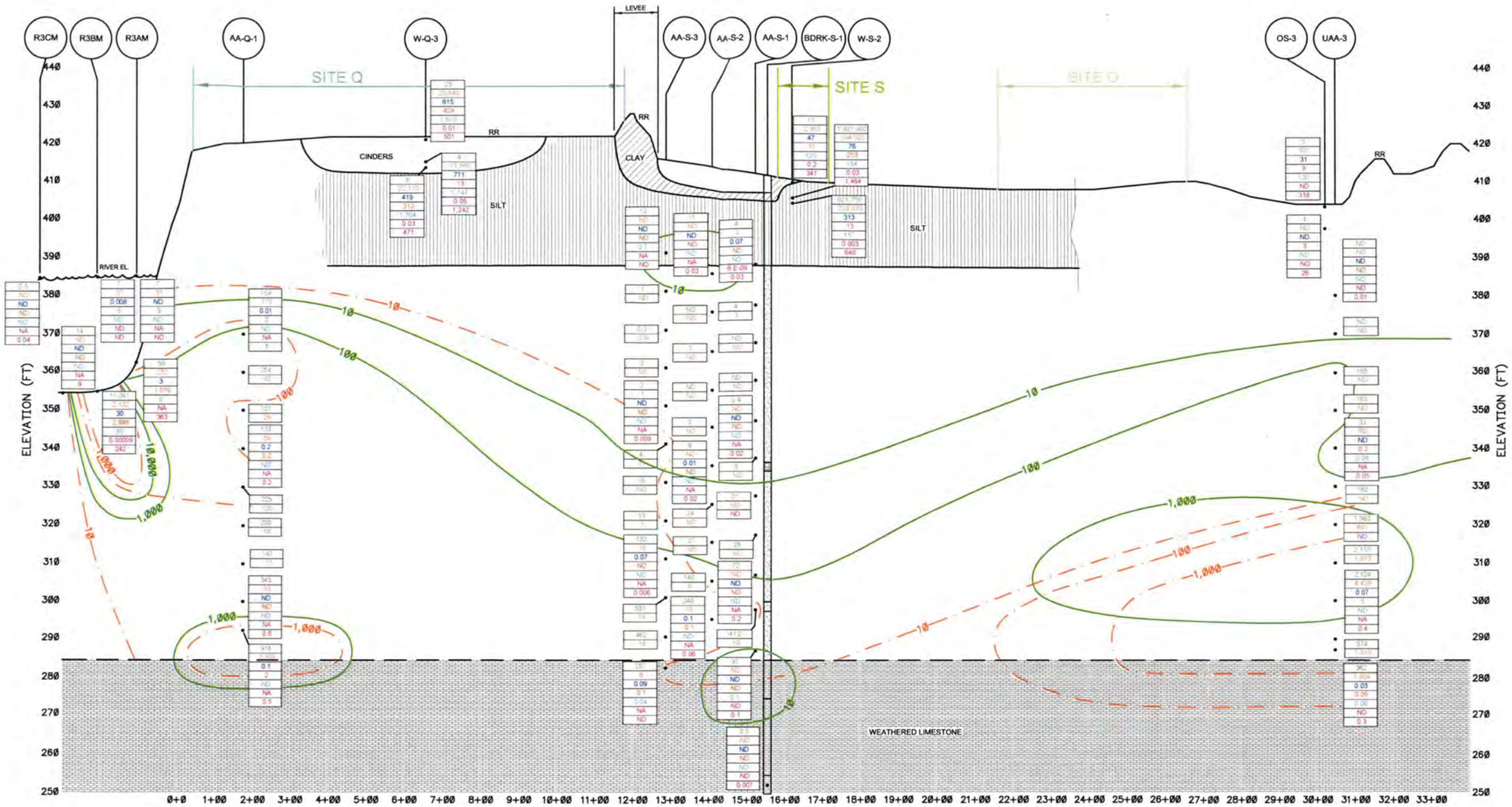
R2BU - RIVER SAMPLE - SURFACE WATER & SEDIMENT
AA - ALLUVIAL AQUIFER
BDRK - BEDROCK MONITORING WELL
L - LEACHATE MONITORING WELL
W - SOIL/WASTE SAMPLE
OS - OFF SITE SOIL SAMPLE
UAA - UPGRADIENT ALLUVIAL AQUIFER
WASTE SAMPLE - VOCs & DIOXIN SAMPLES COLLECTED AT THE SPECIFIED INTERVAL. THE REST OF ANALYTES COLLECTED FROM COMPOSITE

NOTES:
1) ALL CONCENTRATIONS IN ppb EXCEPT METALS (ppm)
2) * TOTAL METALS - INCLUDE TOTAL FOR ONLY COPPER, LEAD, MERCURY, AND ZINC.
3) BEDROCK WELL AND LEACHATE DATA FROM SEPTEMBER 2002 SAMPLING EVENT

0 30
VERTICAL SCALE
0 300
HORIZONTAL SCALE

SAUGET AREA 2 RI/FS SAUGET ILLINOIS	PROJECT NO. 21560888.07001
URS	
DRN. BY:djd 10/7/03 DSGN. BY:bh CHKD. BY:	Geologic Cross Section B–B'
	FIG. NO. 6–3

File: E:\21560888.04001\REPORTS\RI_FS REPORT\6-3.DWG Last edited: DEC. 16, 03 @ 1:29 p.m. by: DJDEGUIO



LEGEND

TOTAL VOCs	TOTAL VOCs	TOTAL VOCs
TOTAL SVOCs	TOTAL SVOCs	TOTAL SVOCs
TOTAL PESTICIDES	TOTAL DIOXIN	
TOTAL HERBICIDES		
TOTAL PCBs		
TOTAL DIOXIN		
TOTAL METALS		

SVOC (ppb)

VOC (ppb)

R2BU - RIVER SAMPLE - SURFACE WATER & SEDIMENT
AA - ALLUVIAL AQUIFER
BDRK - BEDROCK MONITORING WELL
L - LEACHATE MONITORING WELL
W - SOIL/WASTE SAMPLE
OS - OFF SITE SOIL SAMPLE
UAA - UPGRADIENT ALLUVIAL AQUIFER
WASTE SAMPLE - VOCs & DIOXIN SAMPLES COLLECTED AT THE SPECIFIED INTERVAL. THE REST OF ANALYTES COLLECTED FROM COMPOSITE

NOTES:
1) ALL CONCENTRATIONS IN ppb EXCEPT METALS (ppm)
2) * TOTAL METALS - INCLUDE TOTAL FOR ONLY COPPER, LEAD, MERCURY, AND ZINC.
3) BEDROCK WELL AND LEACHATE DATA FROM SEPTEMBER 2002 SAMPLING EVENT

0 30
VERTICAL SCALE
0 300
HORIZONTAL SCALE

SAUGET AREA 2 RI/FS SAUGET ILLINOIS	PROJECT NO. 21560888.07001

URS

DRN. BY:djd 10/7/03 DSGN. BY:bh CHKD. BY:	Geologic Cross Section C–C'	FIG. NO. 6–4

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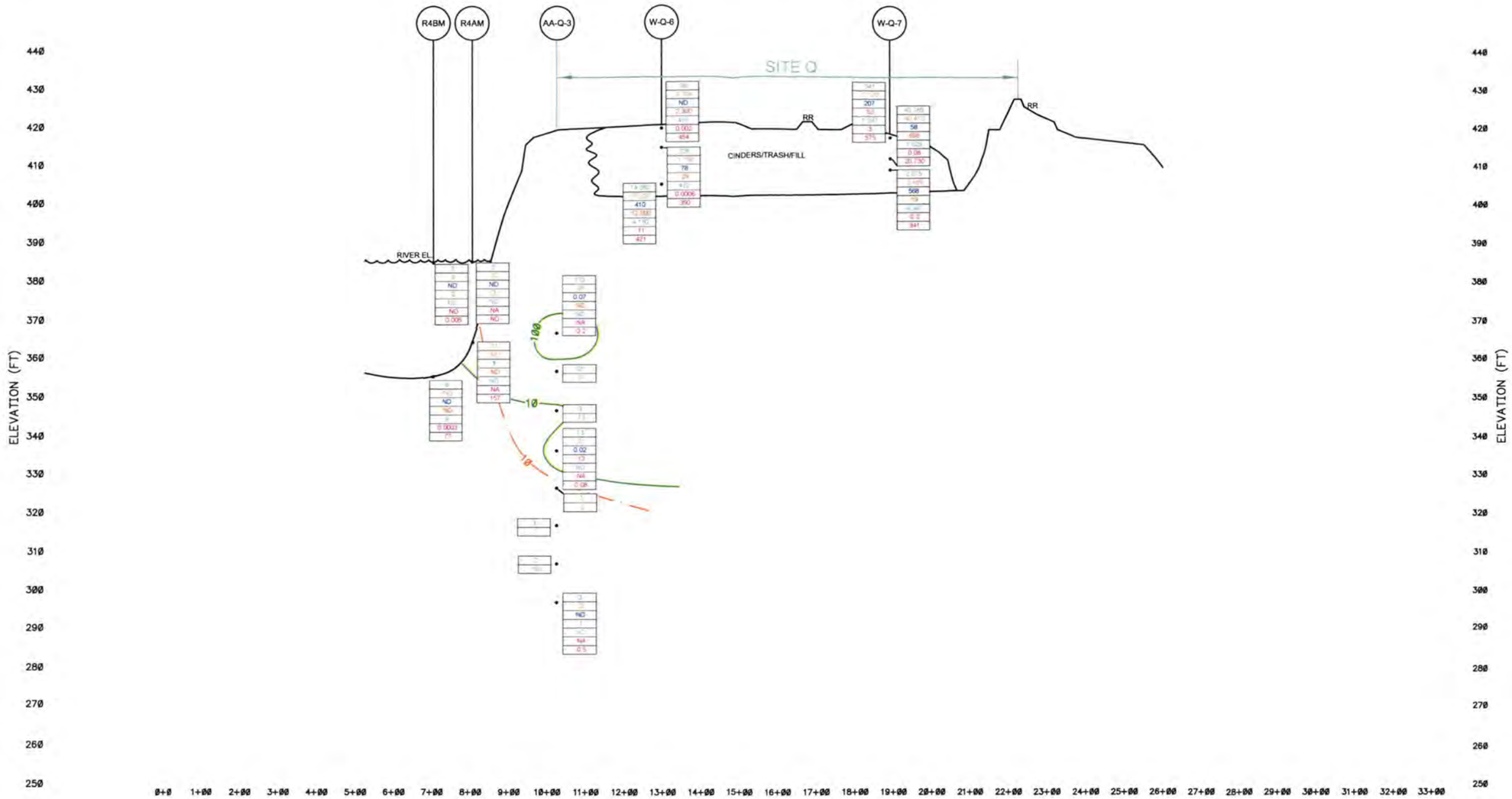


LEGEND

TOTAL VOCs
TOTAL SVOCs
TOTAL PESTICIDES
TOTAL HERBICIDES
TOTAL PCBs
TOTAL DIOXIN
TOTAL METALS

TOTAL VOCs
TOTAL SVOCs
TOTAL DIOXIN

TOTAL VOCs
TOTAL SVOCs

SVOC (ppb)

VOC (ppb)

R2BU - RIVER SAMPLE - SURFACE WATER & SEDIMENT

AA - ALLUVIAL AQUIFER

BDRK - BEDROCK MONITORING WELL

L - LEACHATE MONITORING WELL

W - SOIL/WASTE SAMPLE

OS - OFF SITE SOIL SAMPLE

UAA - UPGRADIENT ALLUVIAL AQUIFER

WASTE SAMPLE - VOCs & DIOXIN SAMPLES COLLECTED AT THE SPECIFIED INTERVAL. THE REST OF ANALYTES COLLECTED FROM COMPOSITE

NOTES:

1) ALL CONCENTRATIONS IN ppb EXCEPT METALS (ppm)

2) * TOTAL METALS - INCLUDE TOTAL FOR ONLY COPPER, LEAD, MERCURY, AND ZINC.

3) BEDROCK WELL AND LEACHATE DATA FROM SEPTEMBER 2002 SAMPLING EVENT

0 30

VERTICAL SCALE

0 300

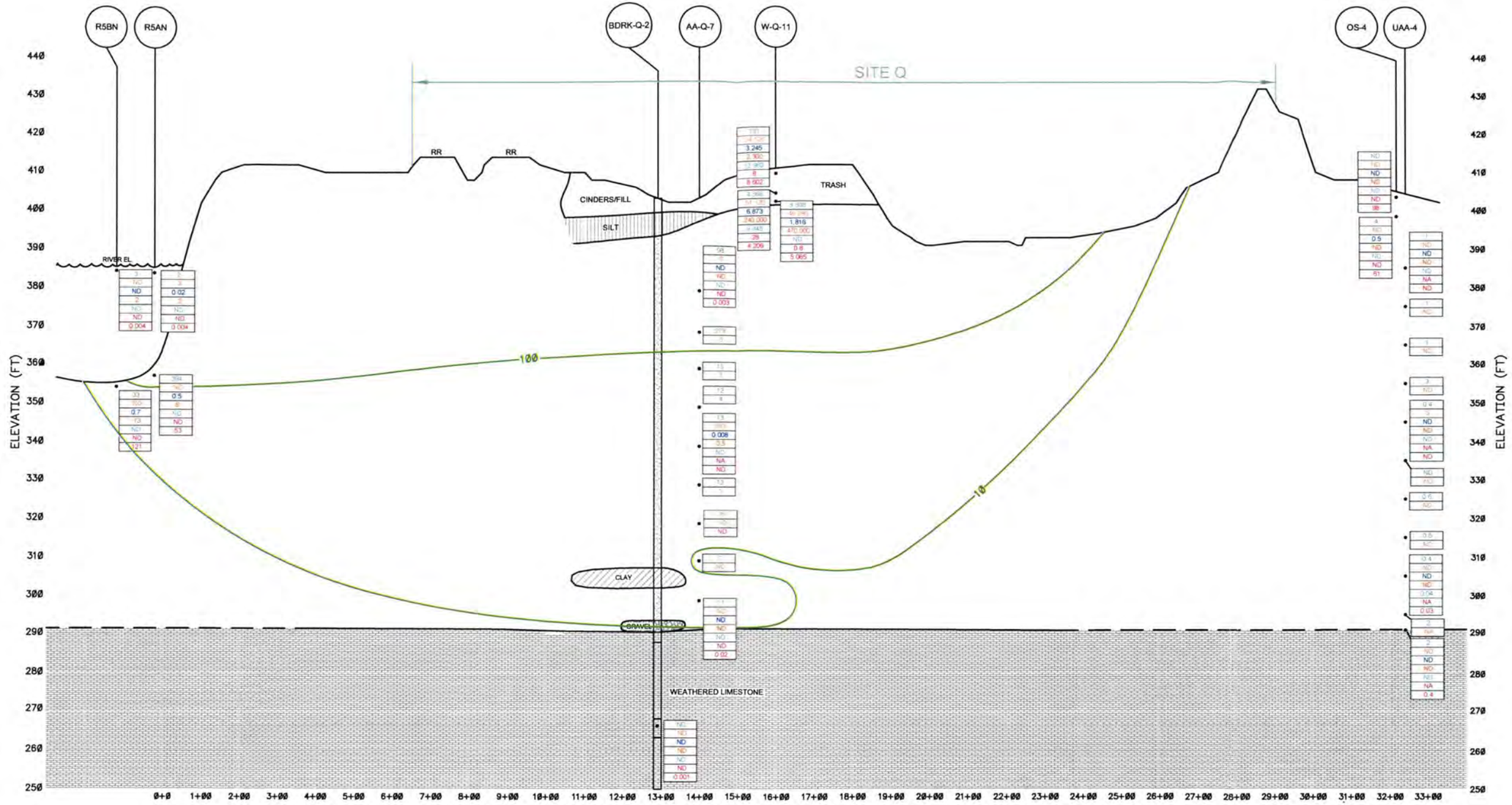
HORIZONTAL SCALE

SAUGET AREA 2 RI/FS SAUGET ILLINOIS	PROJECT NO. 21560888.07001

URS

DRN. BY:djd 10/7/03 DSGN. BY:bh CHKD. BY:	Geologic Cross Section D–D'	FIG. NO. 6–5

File: E:\21560888.04001\REPORTS\RI_FS_REPORT\6-5.DWG Last edited: DEC. 16, 03 @ 1:32 p.m. by: DJDEGUIO



LEGEND

TOTAL VOCs	TOTAL VOCs	TOTAL VOCs
TOTAL SVOCs	TOTAL SVOCs	TOTAL SVOCs
TOTAL PESTICIDES	TOTAL DIOXIN	
TOTAL HERBICIDES		
TOTAL PCBs		
TOTAL DIOXIN		
TOTAL METALS		

SVOC (ppb)

VOC (ppb)

ALL CONCENTRATIONS IN ppb EXCEPT METALS (ppm)

R2BU - RIVER SAMPLE - SURFACE WATER & SEDIMENT

AA - ALLUVIAL AQUIFER

BDRK - BEDROCK MONITORING WELL

L - LEACHATE MONITORING WELL

W - SOIL/WASTE SAMPLE

OS - OFF SITE SOIL SAMPLE

UAA - UPGRADIENT ALLUVIAL AQUIFER

WASTE SAMPLE - VOCs & DIOXIN SAMPLES COLLECTED AT THE SPECIFIED INTERVAL. THE REST OF ANALYTES COLLECTED FROM COMPOSITE

NOTES:

1) ALL CONCENTRATIONS IN ppb EXCEPT METALS (ppm)

2) * TOTAL METALS - INCLUDE TOTAL FOR ONLY COPPER, LEAD, MERCURY, AND ZINC.

3) BEDROCK WELL AND LEACHATE DATA FROM SEPTEMBER 2002 SAMPLING EVENT

0 30

VERTICAL SCALE

0 300

HORIZONTAL SCALE

SAUGET AREA 2 RI/FS SAUGET ILLINOIS	PROJECT NO. 21560888.07001

URS

DRN. BY:djd 10/7/03 DSGN. BY:bh CHKD. BY:	Geologic Cross Section E–E'	FIG. NO. 6–6

File: E:\21560888.04001\REPORTS\RI_FS REPORT\6-6.DWG Last edited: DEC. 16, 03 @ 1:33 p.m. by: DJDEGUIO

LEGEND

- Offsite Soil and Upgradient/Groundwater Sampling Locations
- Site-Related Groundwater Sampling Locations
- Bedrock Monitoring Well

NOTES:

All locations have at least one exceedance of an IEPA Class I Groundwater Standard

SAUGET AREA 2 RI/FS SAUGET ILLINOIS	PROJECT NO. 21560888.07001
URS	
DRN. BY:djd 10/7/03 DSGN. BY:bh CHKD. BY:	Locations with Exceedances of IEPA Class I Groundwater Standards
	FIG. NO. 6-7

File: E:\21560888.040011\REPORTS\RI_FS REPORT\6-7.DWG Last edited: 12/16/03 @ 1:34 p.m. WG-ST.LOUIS, MO

LEGEND

- ■ Offsite Soil and Upgradient/Groundwater Sampling Locations
- ⊙ Site-Related Groundwater Sampling Locations
- ⊕ Bedrock Monitoring Well
- ▲ Piezometer Cluster
- △ Leachate Monitoring Well Location
- —100— Concentration Contour (ppb)

NOTE:
– The values are the maximum values for the SHU – ~0 – 40ft bgs

SAUGET AREA 2 RI/FS SAUGET ILLINOIS	PROJECT NO. 21560888.07001
URS	
DRN. BY:djd 10/7/03 DSGN. BY:bh CHKD. BY:	Total VOCs Isoconcentration Map Shallow
	FIG. NO. 7–1a

File: E:\21560888.04001\REPORTS\RI_FS REPORT\7-1A.DWG Last edited: 12/16/03 @ 1:35 p.m. WC-ST.LOUIS, MO

LEGEND

- ■ Offsite Soil and Upgradient/Groundwater Sampling Locations
- ⊙ Site-Related Groundwater Sampling Locations
- ⊕ Bedrock Monitoring Well
- ▲ Piezometer Cluster
- △ Leachate Monitoring Well Location
- —100— Concentration Contour (ppb)

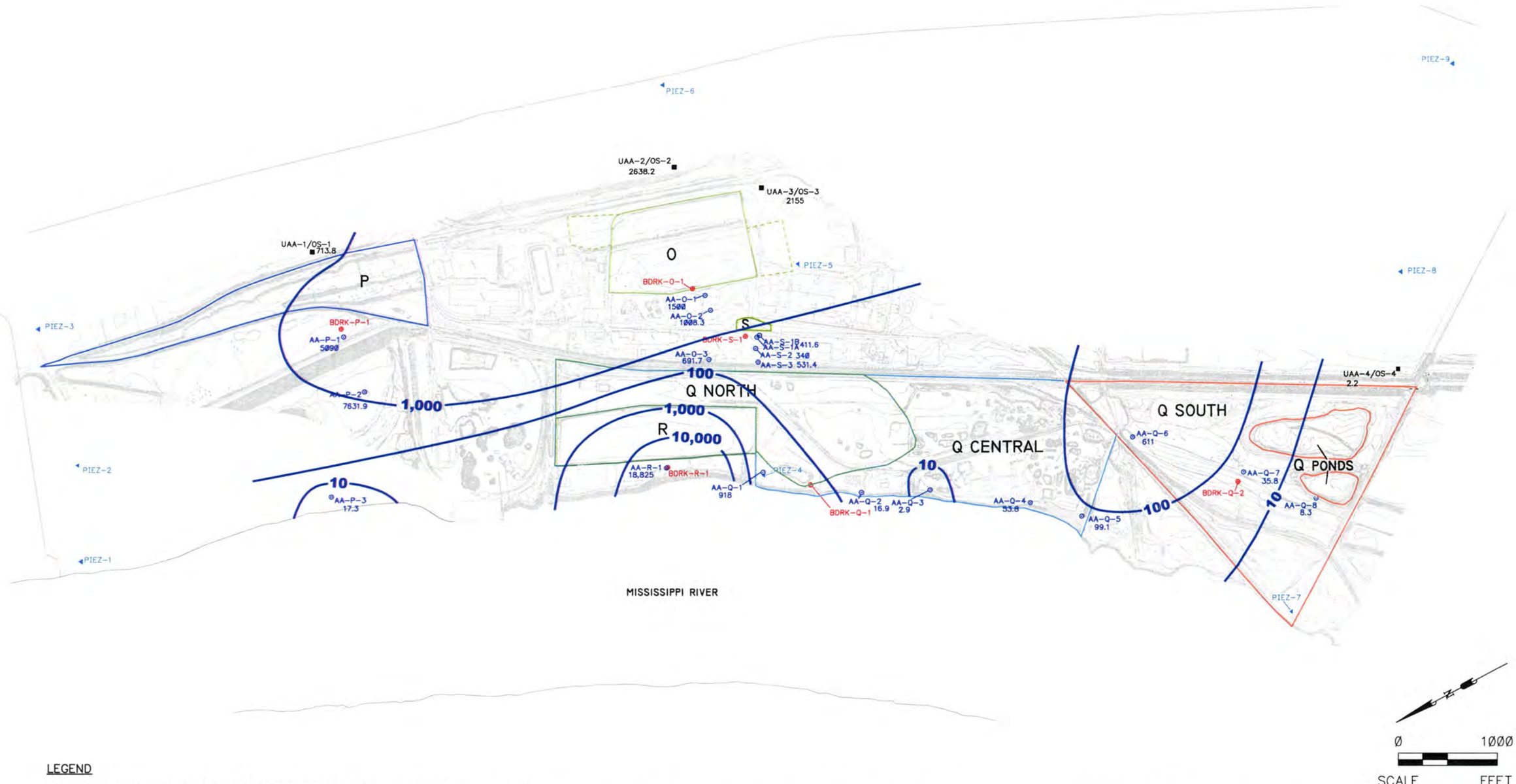
NOTE:
– The values are the maximum values for the MHU – ~41 – 80ft bgs

SAUGET AREA 2 RI/FS SAUGET ILLINOIS	PROJECT NO. 21560888.07001

URS

DRN. BY:djd 10/7/03 DSGN. BY:bh CHKD. BY:	Total VOCs Isoconcentration Map Medium	FIG. NO. 7–1b

File: E:\21560888.04001\REPORTS\RI-FS REPORT\7-18.DWG Last edited: 12/16/03 @ 1:36 p.m. WC-ST.LOUIS, MO



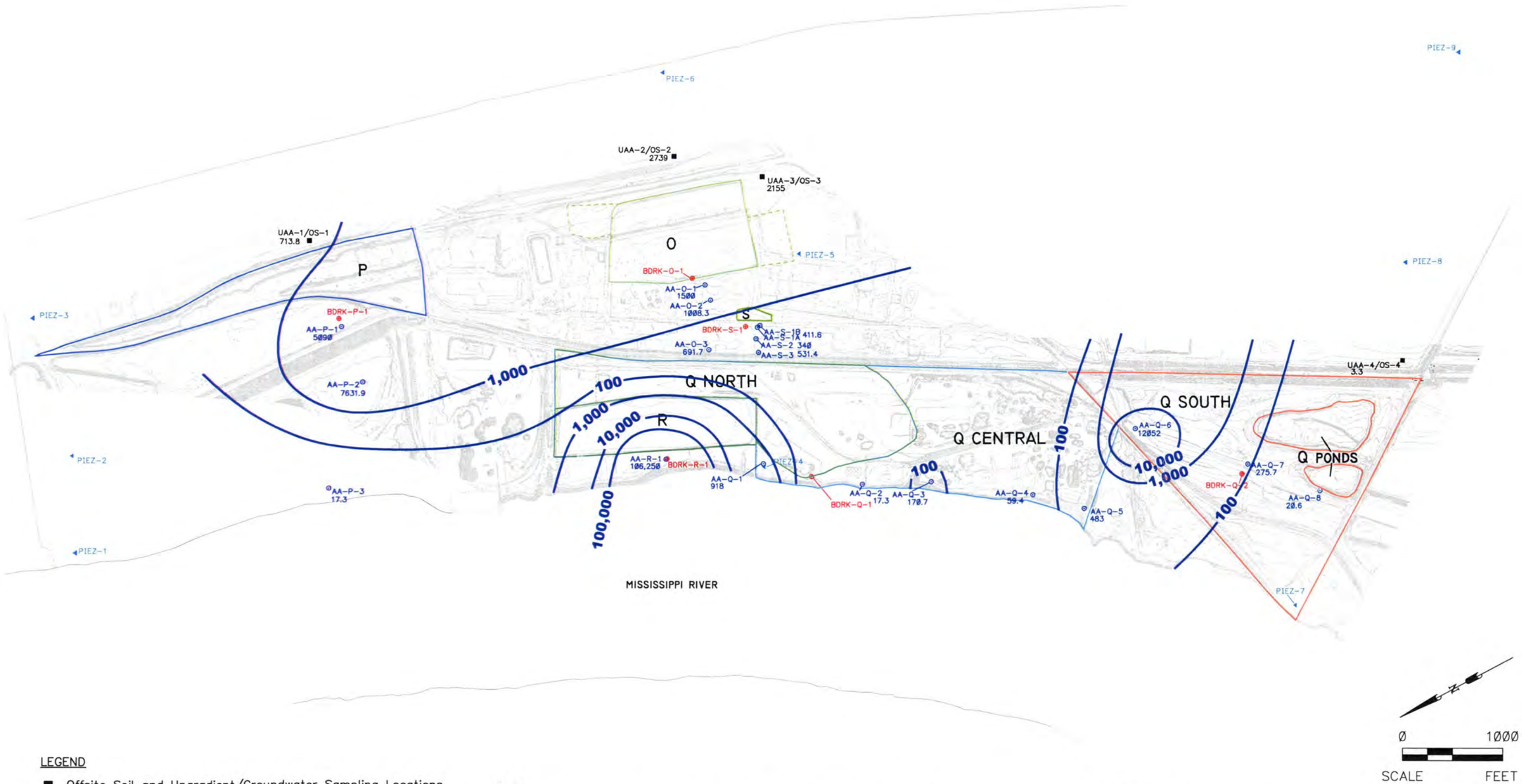
LEGEND

- ■ Offsite Soil and Upgradient/Groundwater Sampling Locations
- ⊙ Site-Related Groundwater Sampling Locations
- ⊕ Bedrock Monitoring Well
- ▲ Piezometer Cluster
- △ Leachate Monitoring Well Location
- —100— Concentration Contour (ppb)

NOTE:
– The values are the maximum values for the DHU – ~81 – 132ft bgs

SAUGET AREA 2 RI/FS SAUGET ILLINOIS	PROJECT NO. 21560888.07001
URS	
DRN. BY:djd 10/7/03 DSGN. BY:bh CHKD. BY:	Total VOCs Isoconcentration Map Deep
	FIG. NO. 7–1c

File: E:\21560888.04001\REPORTS\RI_FS REPORT\7-1C.DWG Last edited: 12/16/03 @ 1:37 p.m. WC-ST.LOUIS, MO



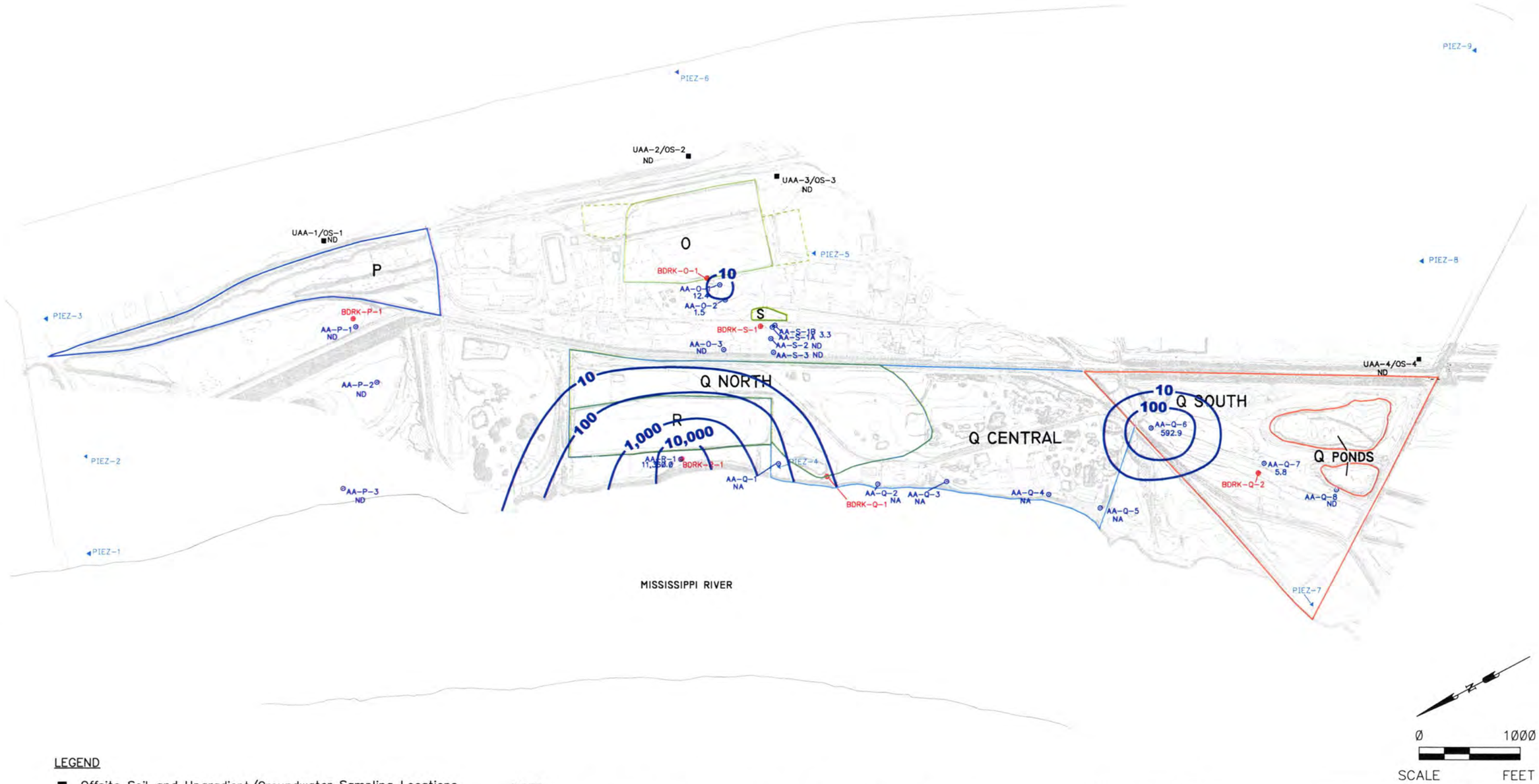
LEGEND

- ■ Offsite Soil and Upgradient/Groundwater Sampling Locations
- ⊙ Site-Related Groundwater Sampling Locations
- ⊕ Bedrock Monitoring Well
- ▲ Piezometer Cluster
- △ Leachate Monitoring Well Location
- —100— Concentration Contour (ppb)

NOTE:
– Concentrations – Maximum concentration over entire depth interval

SAUGET AREA 2 RI/FS SAUGET ILLINOIS	PROJECT NO. 21560888.07001
URS	
DRN. BY:djd 10/7/03 DSGN. BY:bh CHKD. BY:	Total VOCs Isoconcentration Map Composite
	FIG. NO. 7–1d

File: E:\21560888.04001\REPORTS\RI_FS REPORT\7-10.DWG Last edited: 12/16/03 @ 1:38 p.m. WC-ST.LOUIS, MO



LEGEND

- ■ Offsite Soil and Upgradient/Groundwater Sampling Locations
- ⊙ Site-Related Groundwater Sampling Locations
- ⊕ Bedrock Monitoring Well
- ▲ Piezometer Cluster
- △ Leachate Monitoring Well Location
- —100— Concentration Contour (ppb)

NOTE:
– The values are the maximum values for the SHU – ~0 – 40ft bgs

SAUGET AREA 2 RI/FS SAUGET ILLINOIS	PROJECT NO. 21560888.07001
URS	
DRN. BY:djd 10/7/03 DSGN. BY:bh CHKD. BY:	Total SVOCs Isoconcentration Map Shallow
	FIG. NO. 7–2a

File: E:\21560888.04001\REPORTS\RI_FS REPORT\7-2A.DWG Last edited: 12/16/03 @ 1:39 p.m. WC-ST.LOUIS, MO

LEGEND

- ■ Offsite Soil and Upgradient/Groundwater Sampling Locations
- ⊙ Site-Related Groundwater Sampling Locations
- ⊕ Bedrock Monitoring Well
- ▲ Piezometer Cluster
- △ Leachate Monitoring Well Location
- —100— Concentration Contour (ppb)

NOTE:
– The values are the maximum values for the MHU – ~41 – 80ft bgs

SAUGET AREA 2 RI/FS SAUGET ILLINOIS	PROJECT NO. 21560888.07001
URS	
DRN. BY:djd 10/7/03 DSGN. BY:bh CHKD. BY:	Total SVOCs Isoconcentration Map Medium
	FIG. NO. 7–2b

File: E:\21560888.04001\REPORTS\RI_FS REPORT\7-2B.DWG Last edited: 12/16/03 @ 1:41 p.m. WC-ST.LOUIS, MO

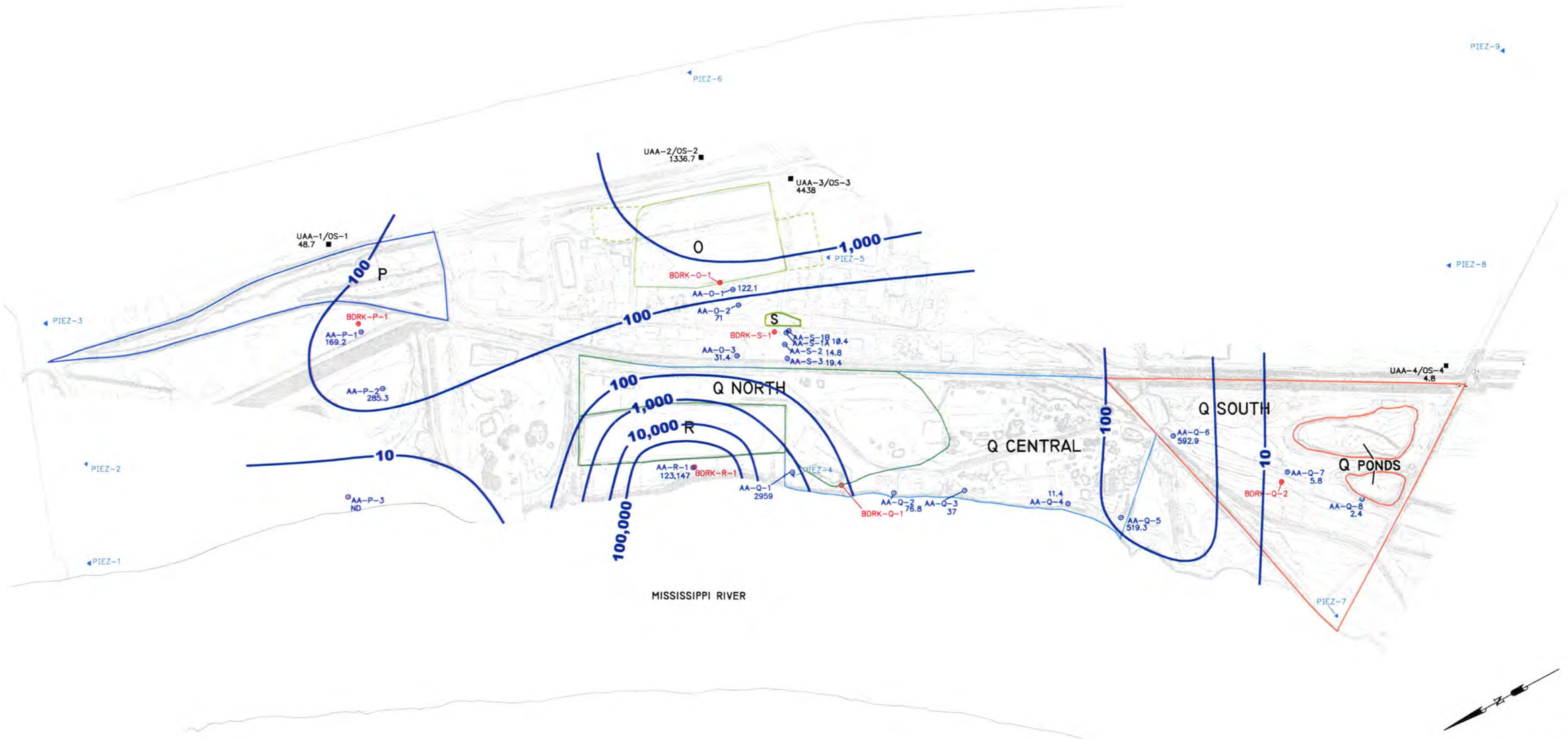
LEGEND

- ■ Offsite Soil and Upgradient/Groundwater Sampling Locations
- ⊙ Site-Related Groundwater Sampling Locations
- ⊕ Bedrock Monitoring Well
- ▲ Piezometer Cluster
- △ Leachate Monitoring Well Location
- —100— Concentration Contour (ppb)

NOTE:
– The values are the maximum values for the DHU – ~81 – 132ft bgs

SAUGET AREA 2 RI/FS SAUGET ILLINOIS	PROJECT NO. 21560888.07001
URS	
DRN. BY:djd 10/7/03 DSGN. BY:bh CHKD. BY:	Total SVOCs Isoconcentration Map Deep
	FIG. NO. 7–2c

File: E:\21560888.04001\REPORTS\RI_FS REPORT\7-2C.DWG Last edited: 12/16/03 @ 1:41 p.m. WC-ST.LOUIS, MO



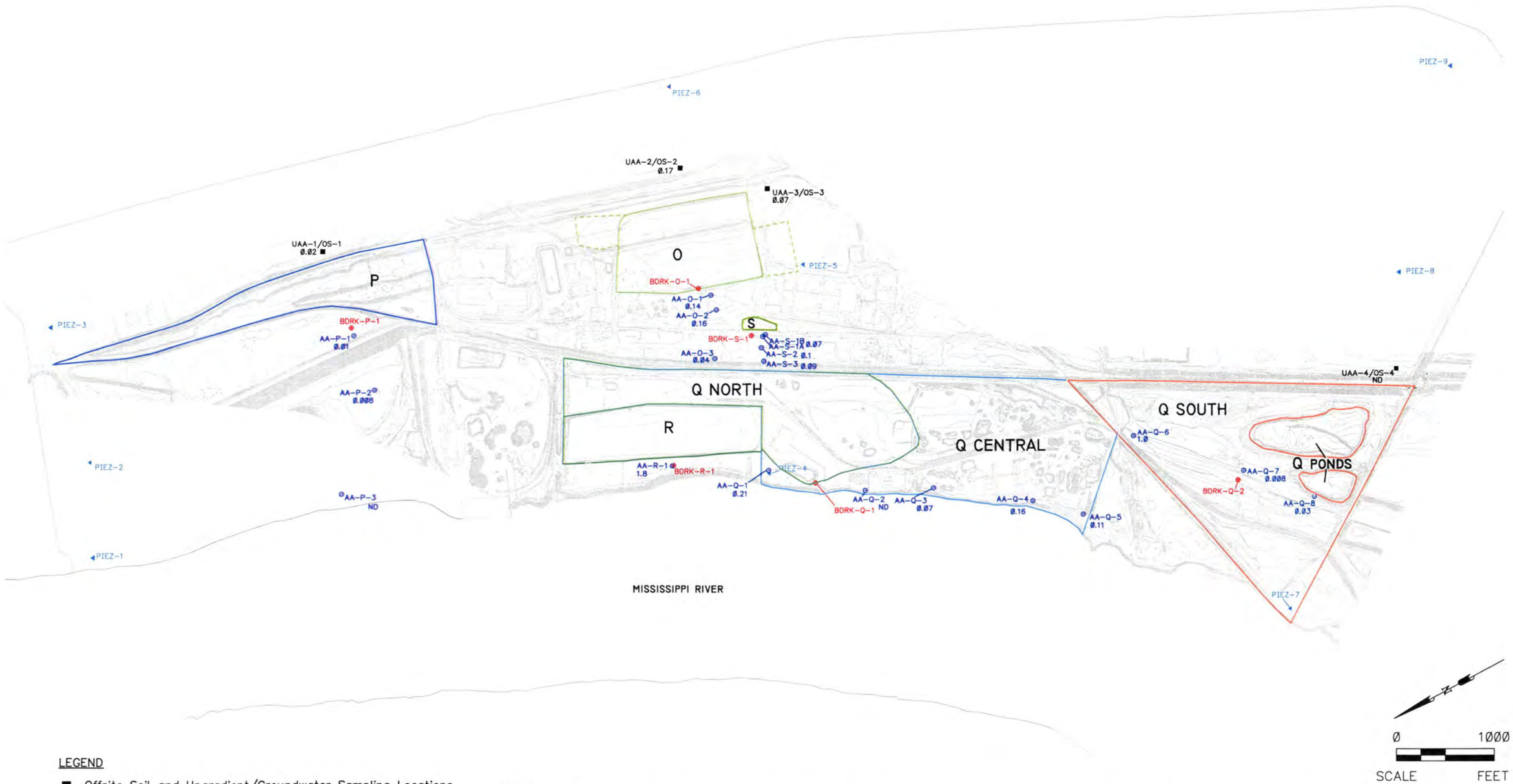
LEGEND

- ■ Offsite Soil and Upgradient/Groundwater Sampling Locations
- ⊙ Site-Related Groundwater Sampling Locations
- ⊕ Bedrock Monitoring Well
- ▲ Piezometer Cluster
- △ Leachate Monitoring Well Location
- —100— Concentration Contour (ppb)

NOTE:
– Concentrations – Maximum concentration over entire depth interval

SAUGET AREA 2 RI/FS SAUGET ILLINOIS	PROJECT NO. 21560888.07001
URS	
DRN. BY:djd 10/7/03 DSGN. BY:bh CHKD. BY:	Total SVOCs Isoconcentration Map Composite
	FIG. NO. 7-2d

File: E:\21560888.04001\REPORTS\RI-FS REPORT\7-20.DWG Last edited: 12/16/03 @ 1:42 p.m. WC-ST.LOUIS, MO



LEGEND

- ■ Offsite Soil and Upgradient/Groundwater Sampling Locations
- ⊙ Site-Related Groundwater Sampling Locations
- ⊕ Bedrock Monitoring Well
- ▲ Piezometer Cluster
- △ Leachate Monitoring Well Location
- —100— Concentration Contour (ppb)

NOTE:
– Concentrations – Maximum concentration over entire depth interval

SAUGET AREA 2 RI/FS SAUGET ILLINOIS	PROJECT NO. 21560888.07001
URS	
DRN. BY:djd 10/7/03 DSGN. BY:bh CHKD. BY:	Total Pesticides Isoconcentration Map Composite
	FIG. NO. 7-3

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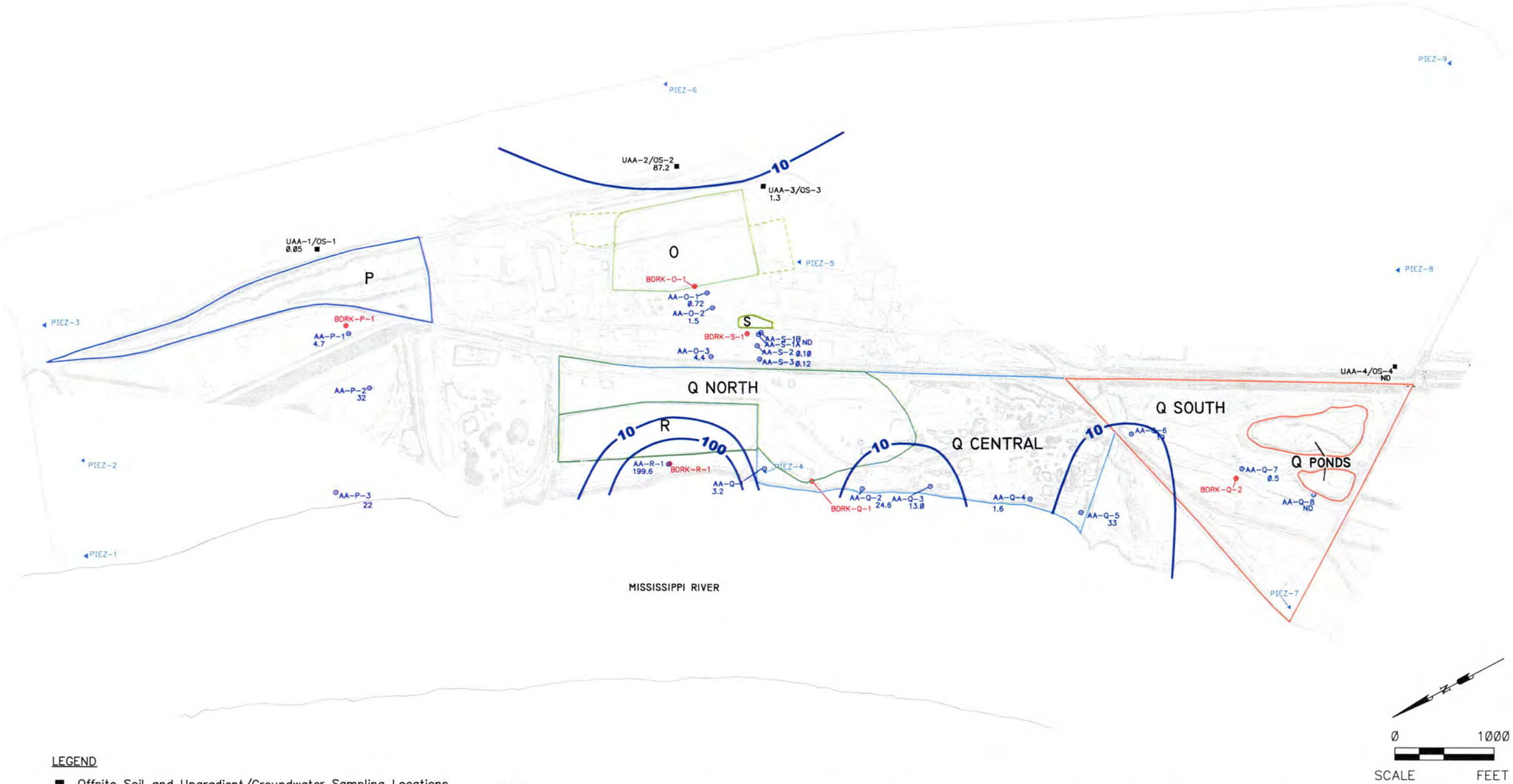


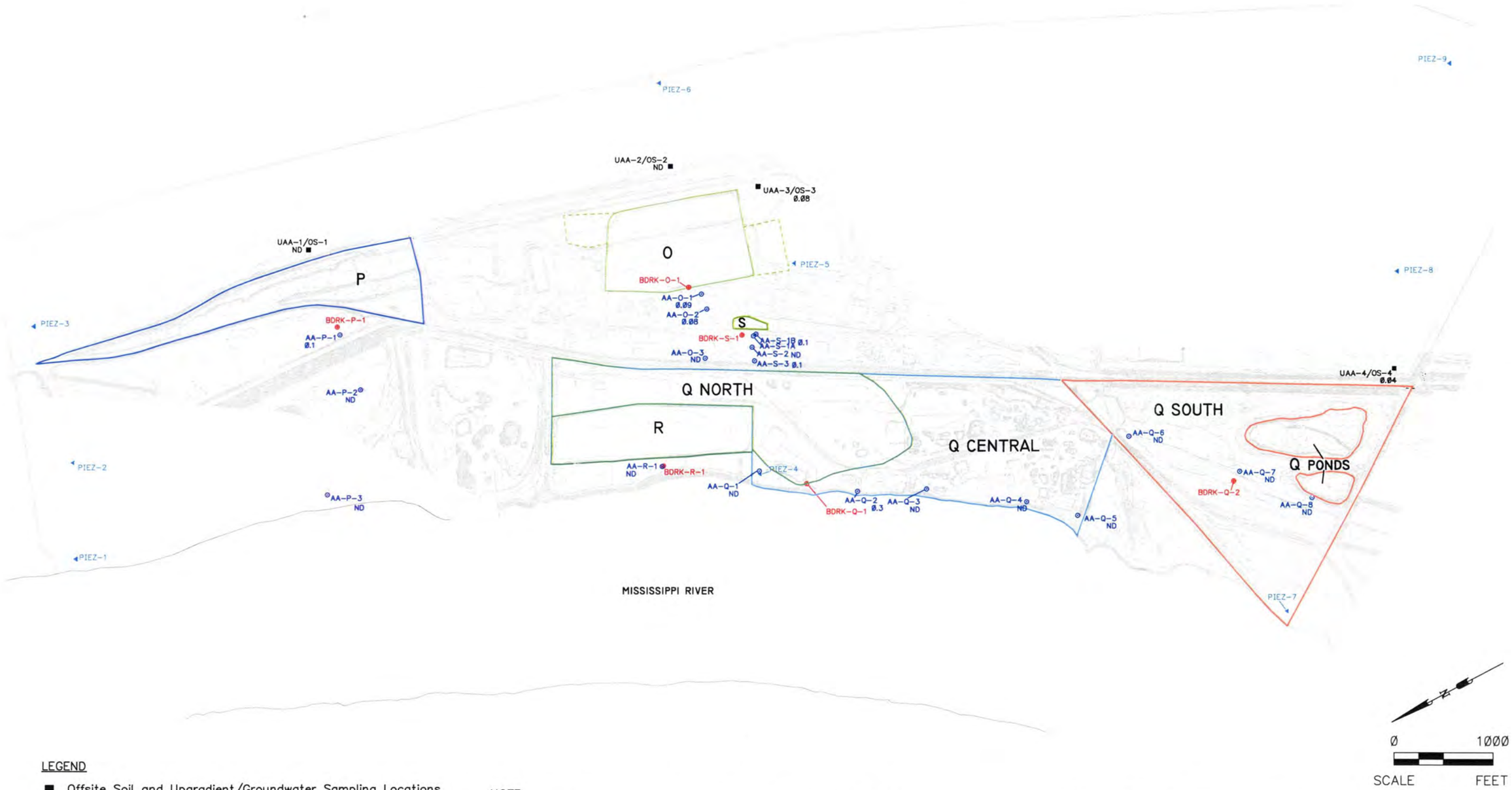
LEGEND

- ■ Offsite Soil and Upgradient/Groundwater Sampling Locations
- ⊙ Site-Related Groundwater Sampling Locations
- ⊕ Bedrock Monitoring Well
- ▲ Piezometer Cluster
- △ Leachate Monitoring Well Location
- —100— Concentration Contour (ppb)

NOTE:
– Concentrations – Maximum concentration over entire depth interval

SAUGET AREA 2 RI/FS SAUGET ILLINOIS	PROJECT NO. 21560888.07001
URS	
DRN. BY:djd 10/7/03 DSGN. BY:bh CHKD. BY:	Total Herbicides Isoconcentration Map Composite
	FIG. NO. 7-4

File: E:\21560888.04001\REPORTS\RI_FS REPORT\7-4.DWG Last edited: 12/16/03 @ 1:46 p.m. WC-ST.LOUIS, MO



LEGEND

- ■ Offsite Soil and Upgradient/Groundwater Sampling Locations
- ⊙ Site-Related Groundwater Sampling Locations
- ⊕ Bedrock Monitoring Well
- ▲ Piezometer Cluster
- △ Leachate Monitoring Well Location
- —100— Concentration Contour (ppb)

NOTE:
– Concentrations – Maximum concentration over entire depth interval

SAUGET AREA 2 RI/FS SAUGET ILLINOIS	PROJECT NO. 21560888.07001
URS	
DRN. BY:djd 10/7/03 DSGN. BY:bh CHKD. BY:	Total PCBs Isoconcentration Map Composite
	FIG. NO. 7-5

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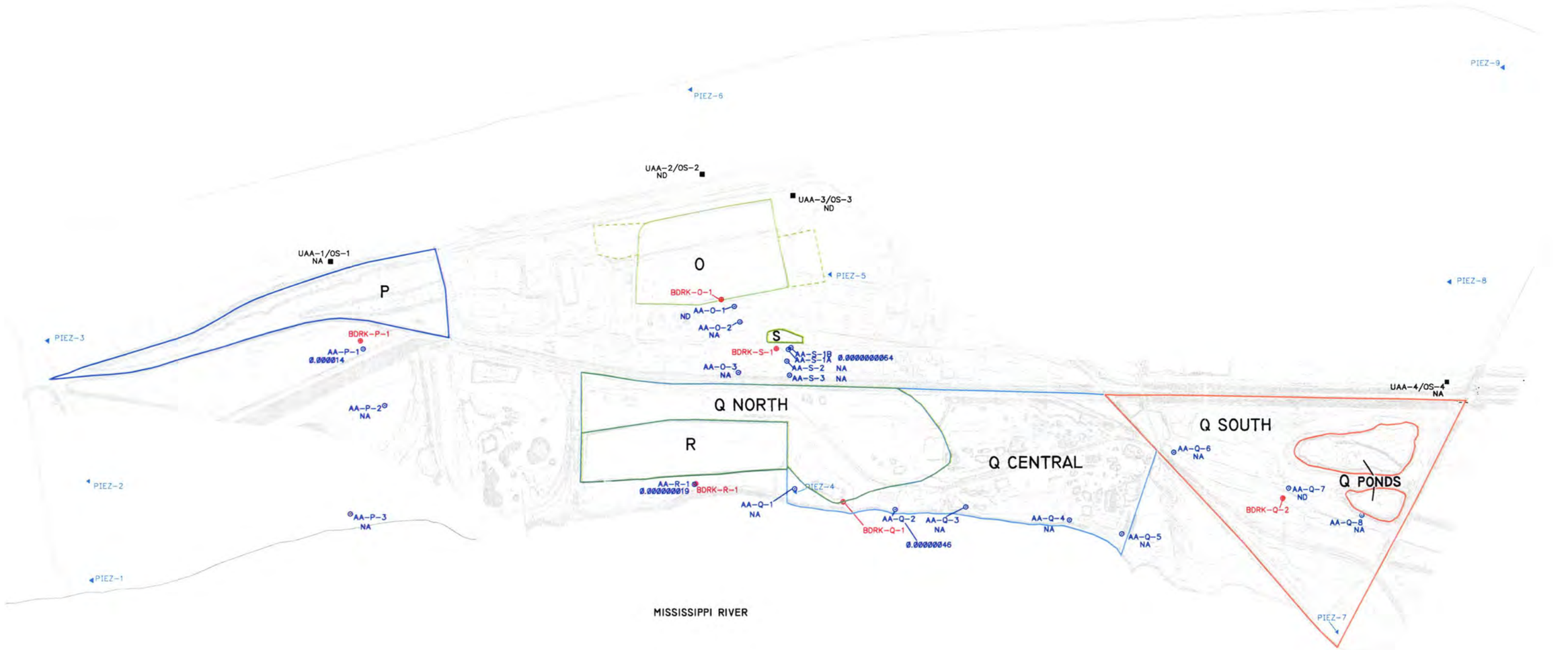

NOTES:
– Concentrations – Maximum concentration over entire depth interval

– TEQ value for individual samples

0 1000
SCALE FEET

LEGEND

- ■ Offsite Soil and Upgradient/Groundwater Sampling Locations
- ⊙ Site-Related Groundwater Sampling Locations
- ⊕ Bedrock Monitoring Well
- ▲ Piezometer Cluster
- △ Leachate Monitoring Well Location
- —100— Concentration Contour (ppb)

SAUGET AREA 2 RI/FS SAUGET ILLINOIS	PROJECT NO. 21560888.07001

URS

DRN. BY:djd 10/7/03 DSGN. BY:bh CHKD. BY:	2,3,7,8-TCDD TEQ Isoconcentration Map Composite	FIG. NO. 7-6

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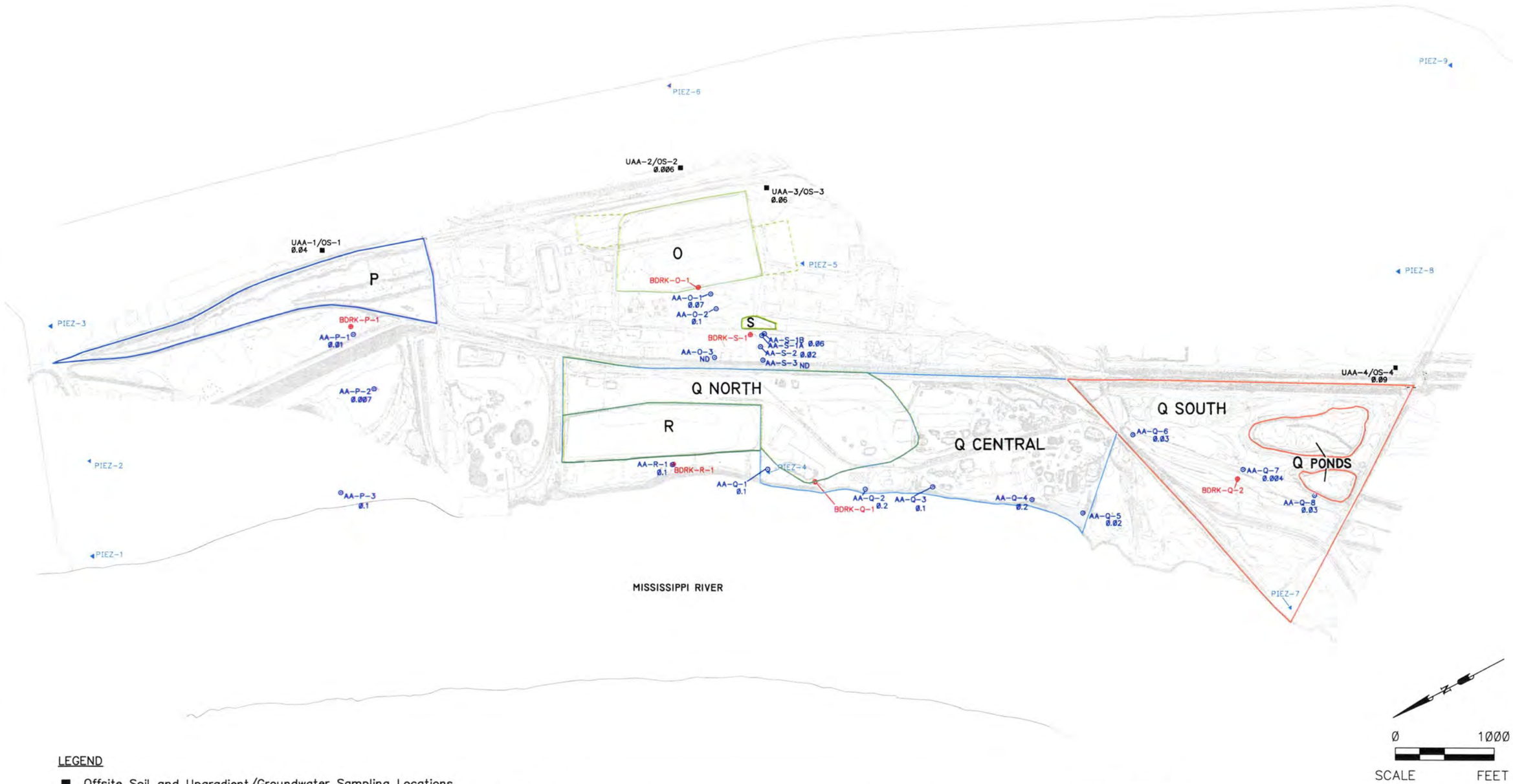


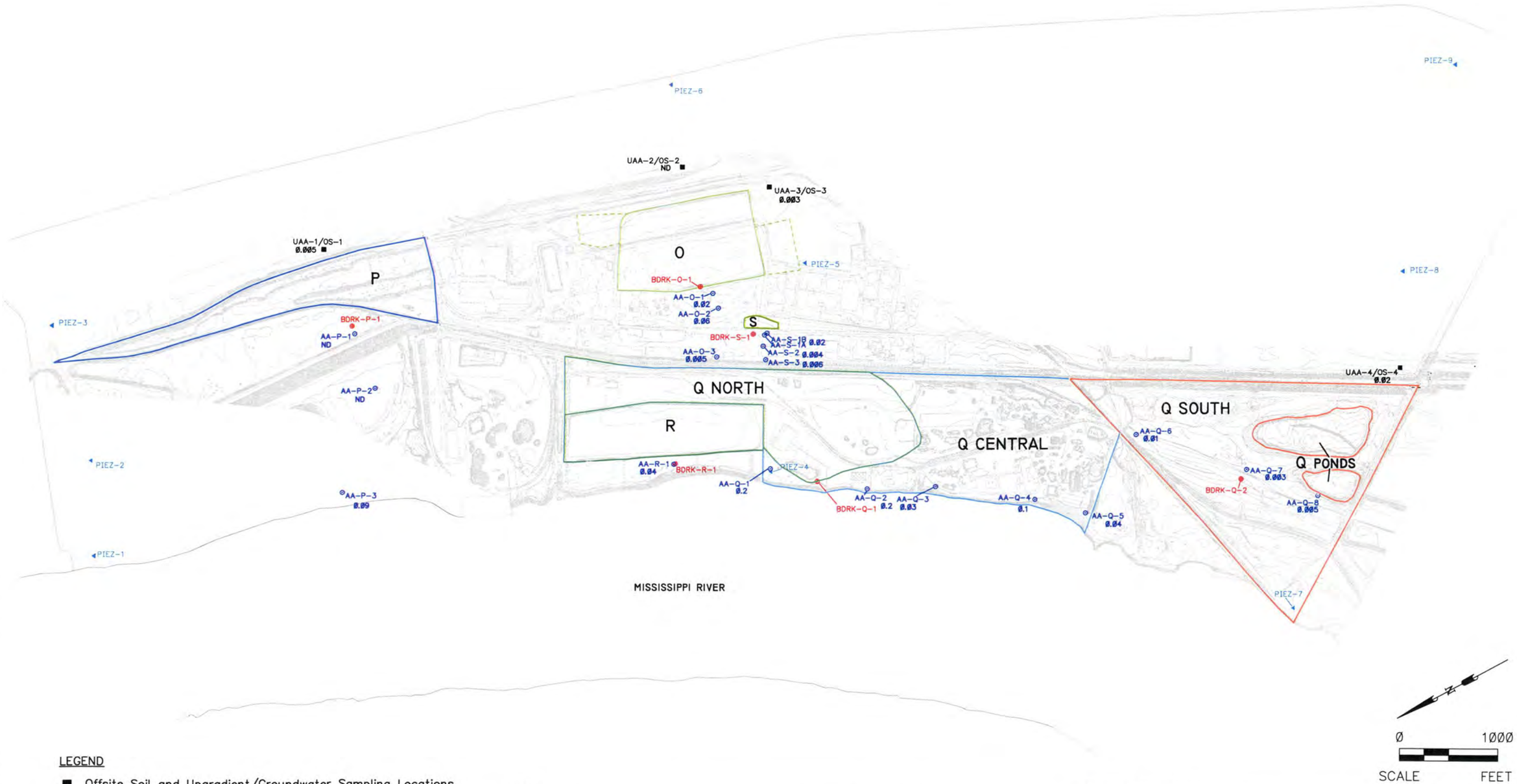
LEGEND

- ■ Offsite Soil and Upgradient/Groundwater Sampling Locations
- ⊙ Site-Related Groundwater Sampling Locations
- ⊕ Bedrock Monitoring Well
- ▲ Piezometer Cluster
- △ Leachate Monitoring Well Location
- —100— Concentration Contour (ppb)

NOTE:
– Concentrations – Maximum concentration over entire depth interval

SAUGET AREA 2 RI/FS SAUGET ILLINOIS	PROJECT NO. 21560888.07001
URS	
DRN. BY:djd 10/7/03 DSGN. BY:bh CHKD. BY:	Copper Isoconcentration Map Composite
	FIG. NO. 7–7

File: E:\21560888.04001\REPORTS\RI-FS REPORT\7-7.DWG Last edited: 12/16/03 @ 1:49 p.m. WC-STLOUIS, MO



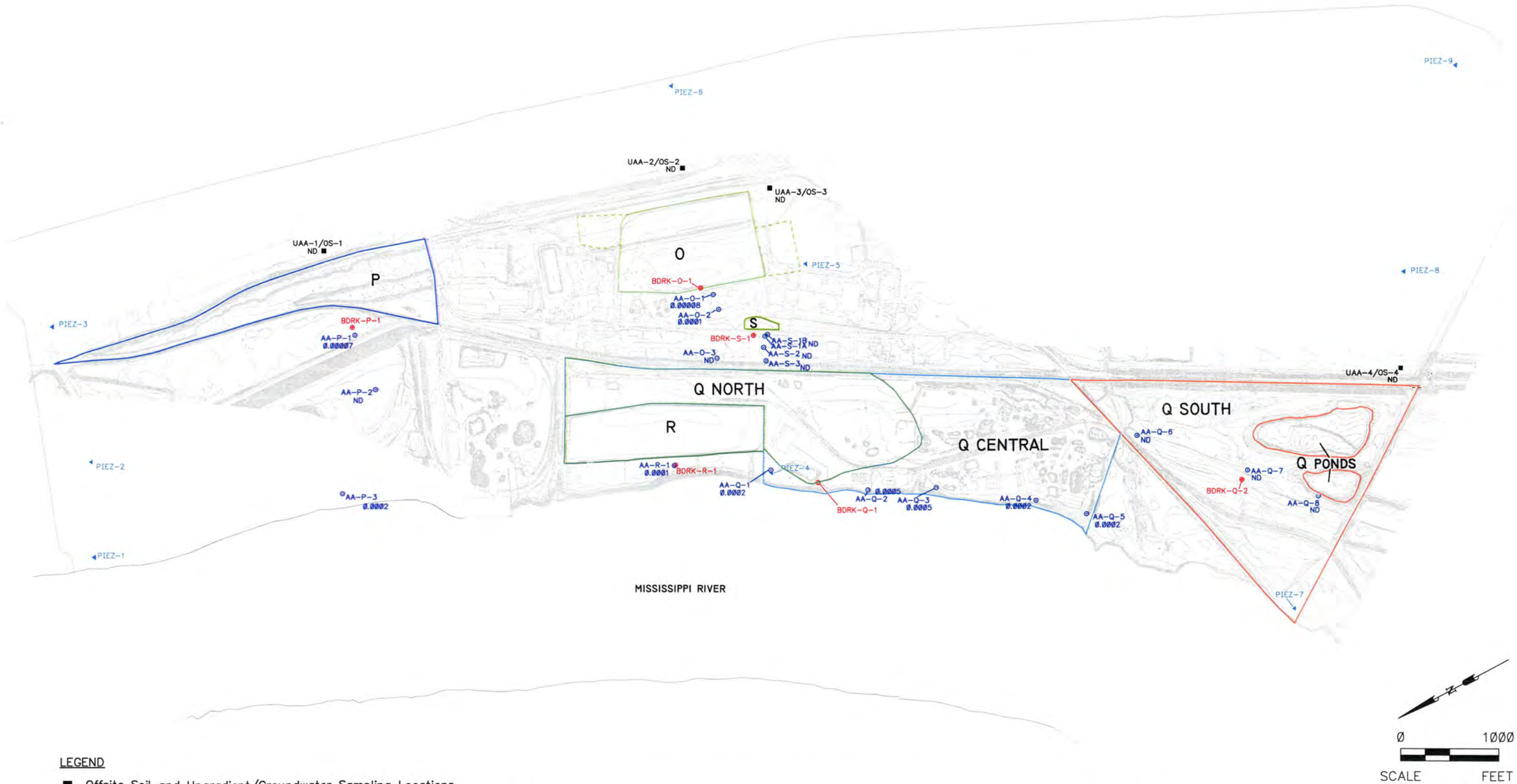
LEGEND

- ■ Offsite Soil and Upgradient/Groundwater Sampling Locations
- ⊙ Site-Related Groundwater Sampling Locations
- ⊕ Bedrock Monitoring Well
- ▲ Piezometer Cluster
- △ Leachate Monitoring Well Location
- —100— Concentration Contour (ppb)

NOTE:
– Concentrations – Maximum concentration over entire depth interval

SAUGET AREA 2 RI/FS SAUGET ILLINOIS	PROJECT NO. 21560888.07001
URS	
DRN. BY:djd 10/7/03 DSGN. BY:bh CHKD. BY:	Lead Isoconcentration Map Composite
	FIG. NO. 7-8

File: E:\21560888.04001\REPORTS\RI_FS REPORT\7-8.DWG Last edited: 12/16/03 @ 1:49 p.m. WC-ST.LOUIS, MO



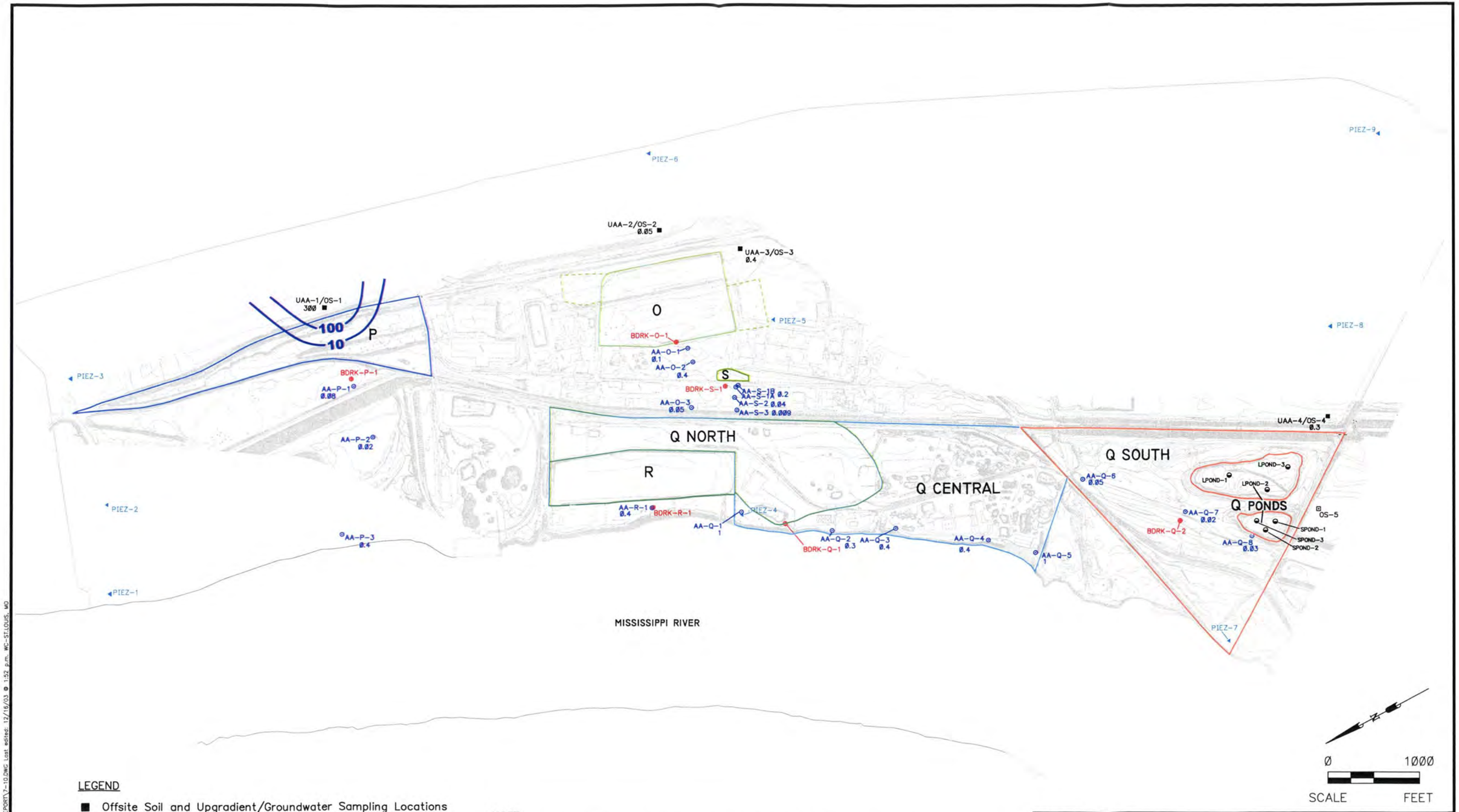
LEGEND

- ■ Offsite Soil and Upgradient/Groundwater Sampling Locations
- ⊙ Site-Related Groundwater Sampling Locations
- ⊕ Bedrock Monitoring Well
- ▲ Piezometer Cluster
- △ Leachate Monitoring Well Location
- —100— Concentration Contour (ppb)

NOTE:
– Concentrations – Maximum concentration over entire depth interval

SAUGET AREA 2 RI/FS SAUGET ILLINOIS	PROJECT NO. 21560888.07001
URS	
DRN. BY:djd 10/7/03 DSGN. BY:bh CHKD. BY:	Mercury Isoconcentration Map Composite
	FIG. NO. 7–9

File: E:\21560888.04001\REPORTS\RI_FS REPORT\7-9.DWG Last edited: 12/16/03 @ 1:51 p.m. WC-ST.LOUIS, MO



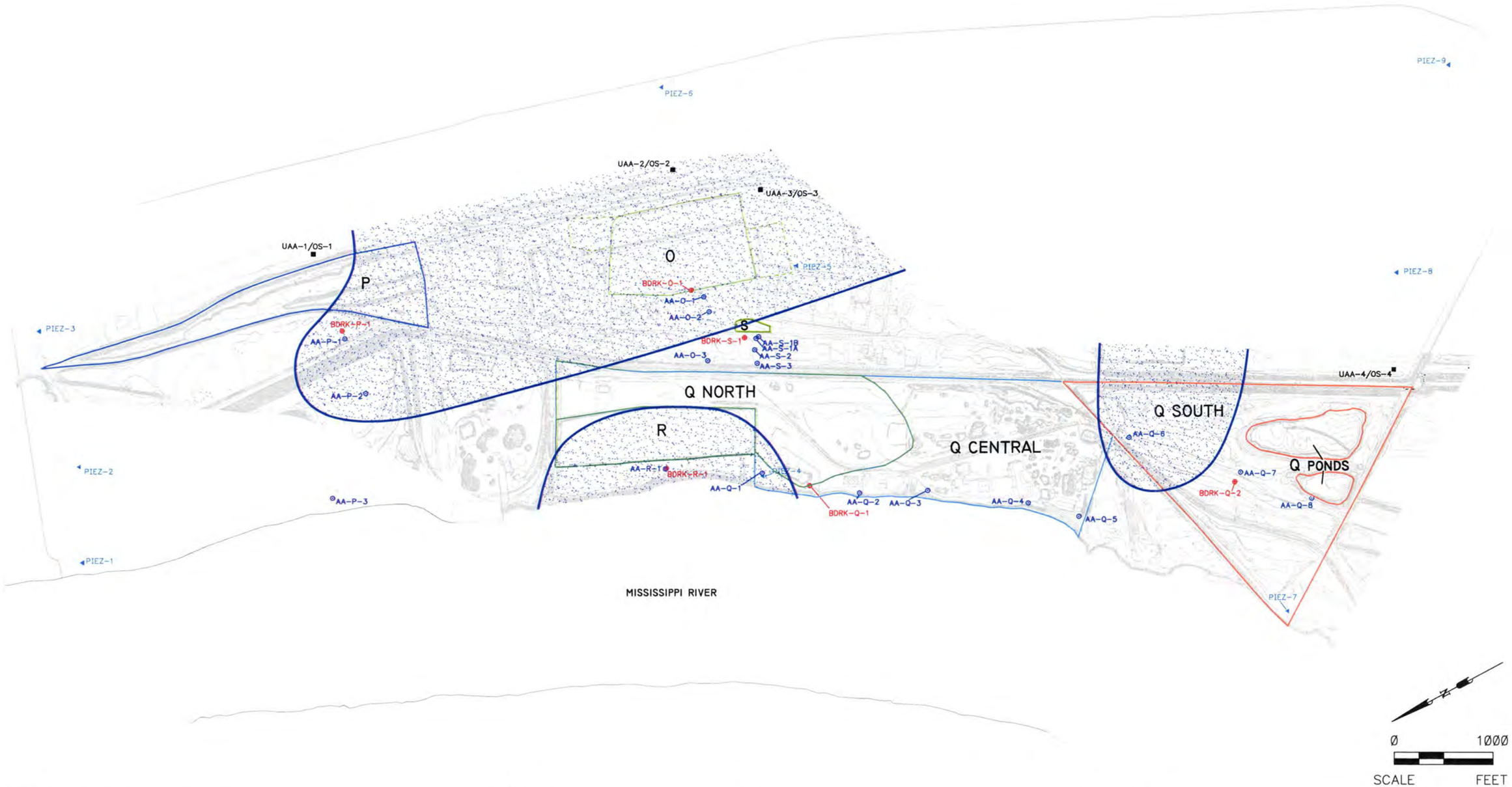
LEGEND

- ■ Offsite Soil and Upgradient/Groundwater Sampling Locations
- ⊙ Site-Related Groundwater Sampling Locations
- ⊕ Bedrock Monitoring Well
- ▲ Piezometer Cluster
- △ Leachate Monitoring Well Location
- —100— Concentration Contour (ppb)

NOTE:
– Concentrations – Maximum concentration over entire depth interval

SAUGET AREA 2 RI/FS SAUGET ILLINOIS	PROJECT NO. 21560888.07001
URS	
DRN. BY:djd 10/7/03 DSGN. BY:bh CHKD. BY:	Zinc Isoconcentration Map Composite
	FIG. NO. 7-10

File: E:\21560888.04001\REPORTS\RI_FS REPORT\7-10.DWG Last edited: 12/16/03 @ 1:52 p.m. WC-ST.LOUIS, MO



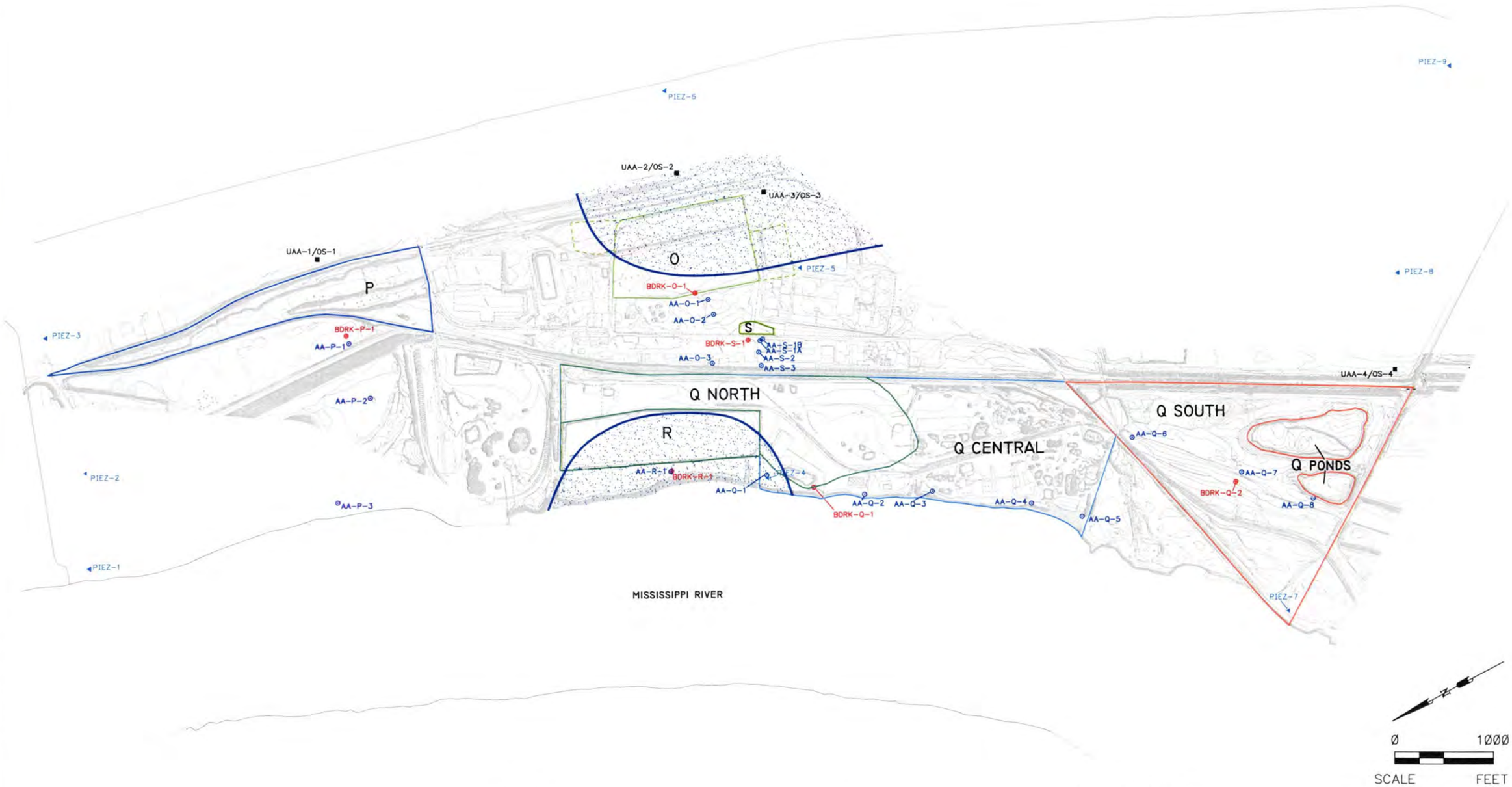
LEGEND

- ■ Offsite Soil and Upgradient/Groundwater Sampling Locations
- ⊙ Site-Related Groundwater Sampling Locations
- ⊕ Bedrock Monitoring Well
- ▲ Piezometer Cluster
- △ Leachate Monitoring Well Location

NOTES:
The edge of the plumes are the 1,000 ppb contour lines

SAUGET AREA 2 RI/FS SAUGET ILLINOIS	PROJECT NO. 21560888.07001
URS	
DRN. BY:djd 10/7/03 DSGN. BY:bh CHKD. BY:	Groundwater Plume Map (VOC)
	FIG. NO. 7-11

File: E:\21560888.0400\REPORTS\RI_FS REPORT\7-11.DWG Last edited: 12/16/03 @ 1:52 p.m. WC-ST.LOUIS, MO



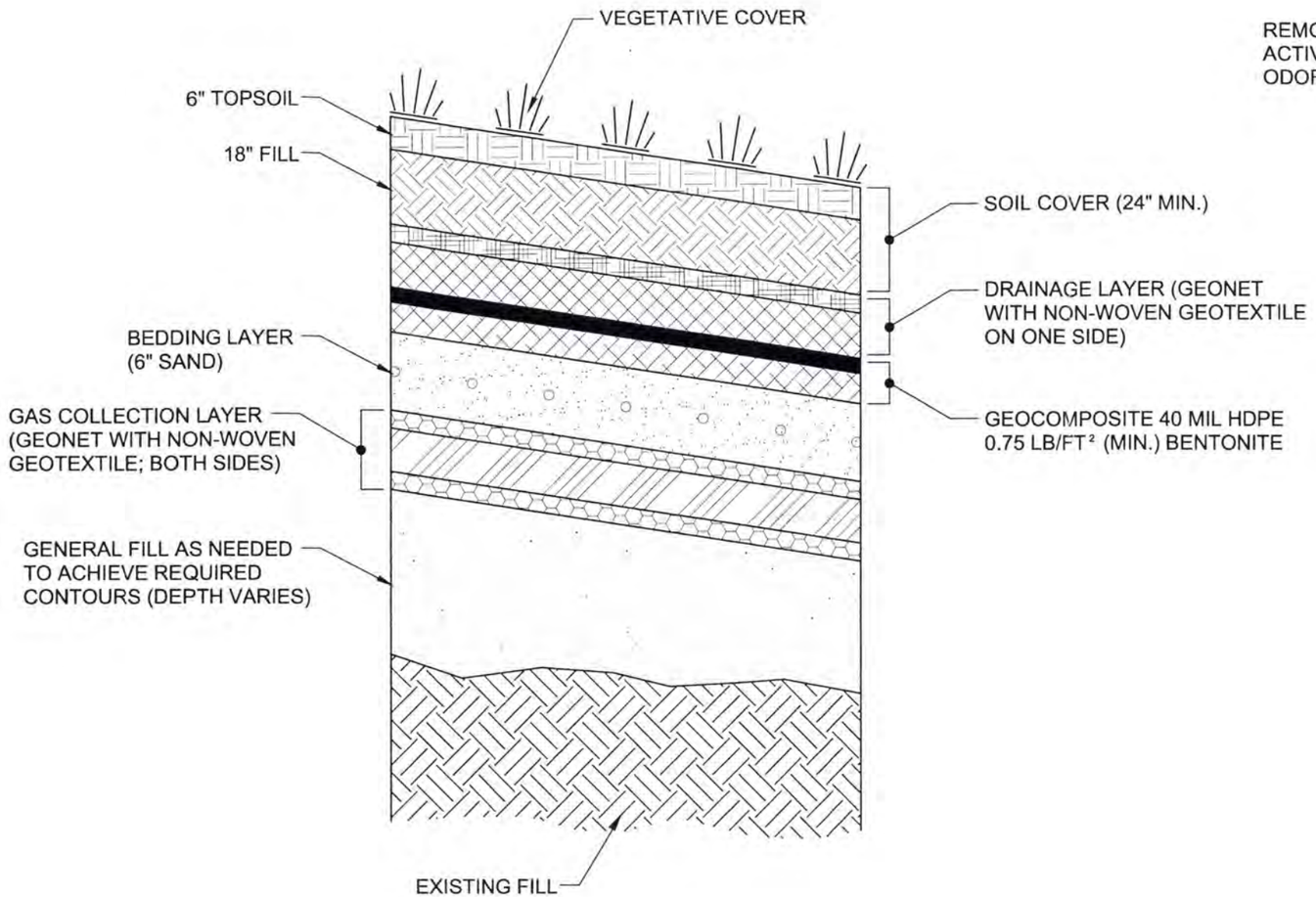
LEGEND

- ■ Offsite Soil and Upgradient/Groundwater Sampling Locations
- ⊙ Site-Related Groundwater Sampling Locations
- ⊕ Bedrock Monitoring Well
- ▲ Piezometer Cluster
- △ Leachate Monitoring Well Location

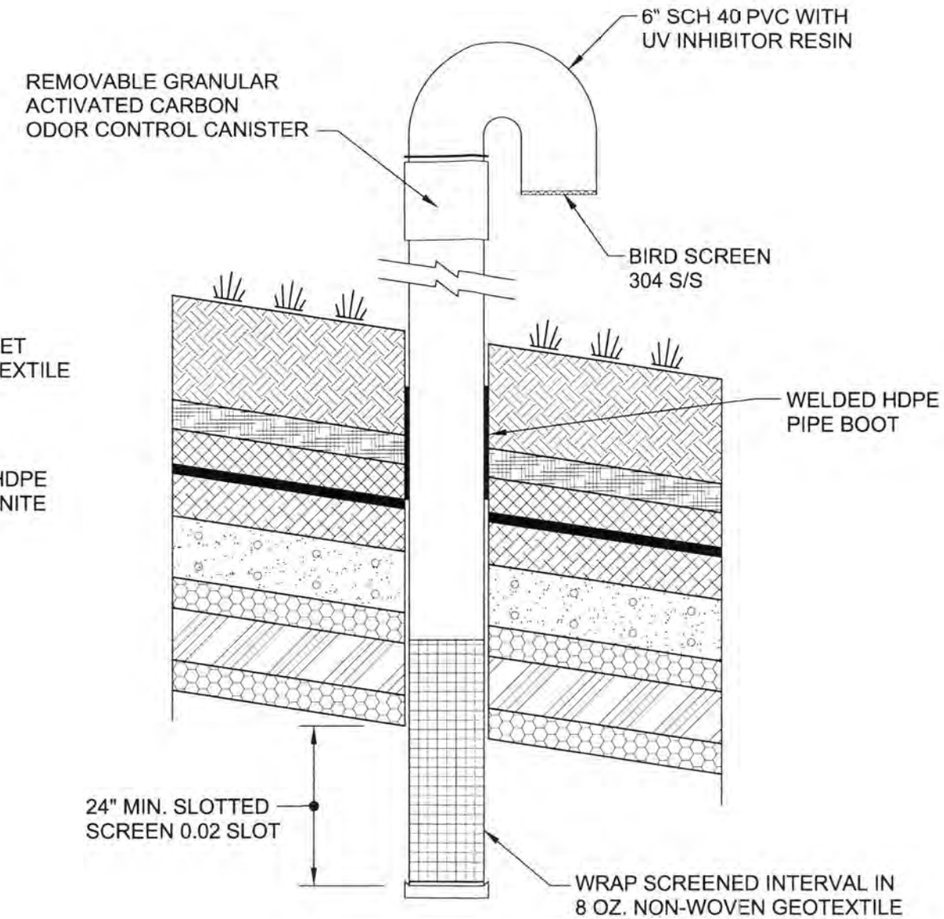
NOTES:
The edges of the plumes are the 1,000 ppb contour lines

SAUGET AREA 2 RI/FS SAUGET ILLINOIS	PROJECT NO. 21560888.07001
URS	
DRN. BY:djd 10/7/03 DSGN. BY:bh CHKD. BY:	Groundwater Plume Map (SVOC)
	FIG. NO. 7-12

File: E:\21560888.04001\REPORTS\RI_FS REPORT\7-12.DWG Last edited: 12/17/03 @ 1:08 p.m. WC-ST.LOUIS, MO



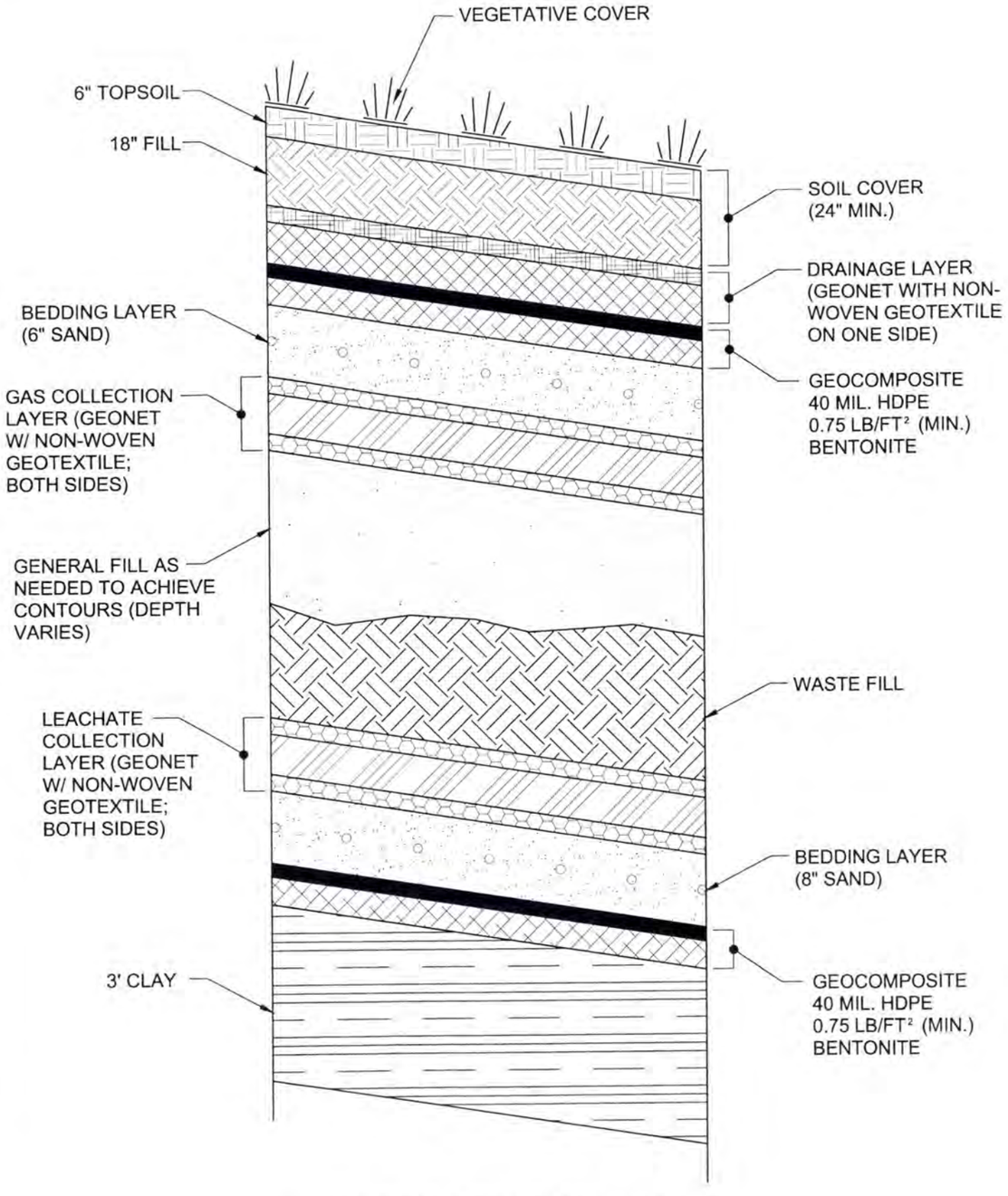
VEGETATED RCRA COVER DETAIL (TYP.)
NOT TO SCALE



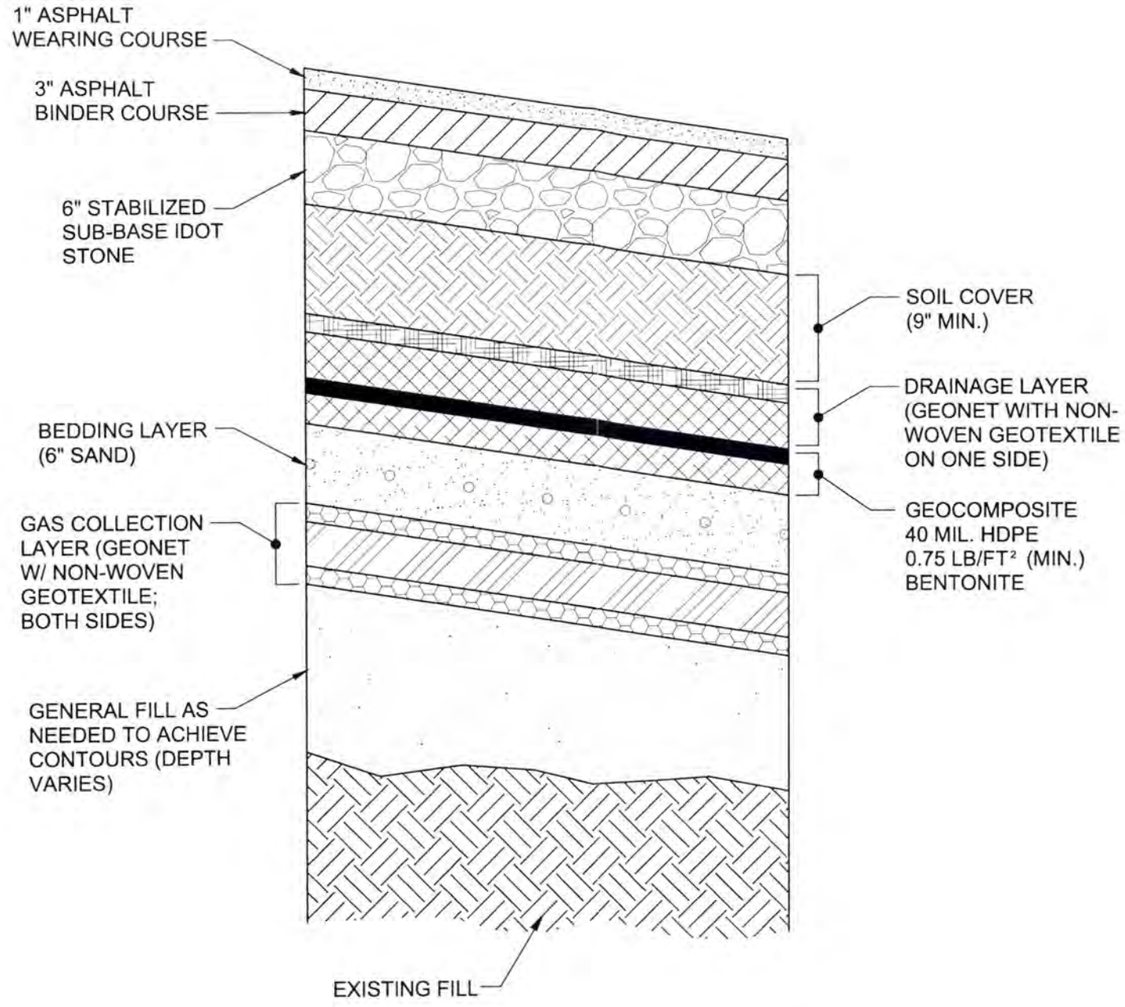
GAS VENT DETAIL (TYP.)
NOT TO SCALE

SAUGET AREA 2 LOW PERMEABILITY COVER SAUGET, ILLINOIS	PROJECT NO. 2156088.07003
URS	
DRN. BY: TMS 11-17-03 DSGN. BY: ASN CHKD. BY:	SA2 SITES "O", "O NORTH", "R", AND "S" COVER DETAILS FIG. NO. 9-1

J:\SAUGET AREA 2\GRADING\SITE PLANS.DWG



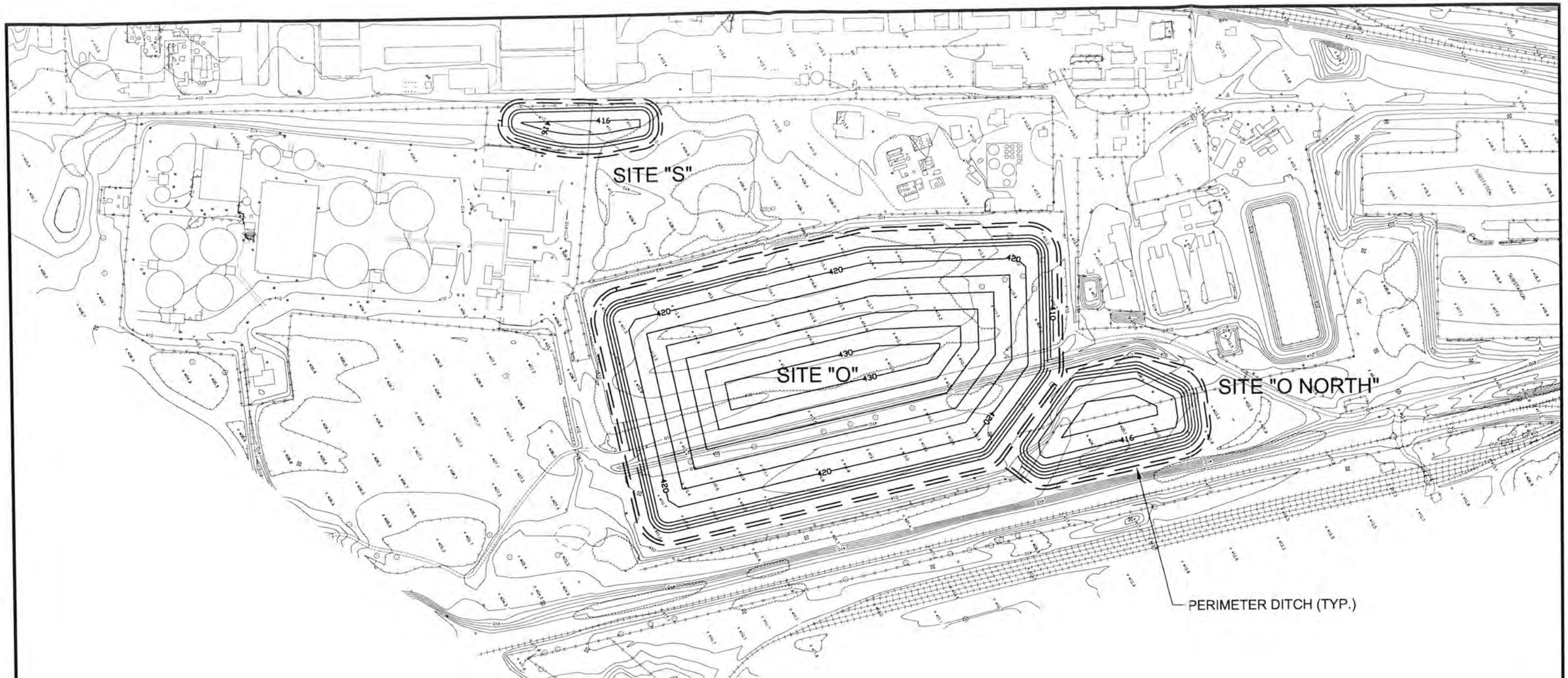
NEW RCRA CELL DETAIL (TYP.)
NOT TO SCALE



ASPHALT PAVED RCRA COVER DETAIL (TYP.)
NOT TO SCALE

SAUGET AREA 2 LOW PERMEABILITY COVER SAUGET, ILLINOIS	PROJECT NO. 2156088.07003
URS	
DRN. BY: TMS 11-17-03 DSGN. BY: ASN CHKD. BY:	SA2 SITE "Q NORTH" AND NEW RCRA CELL COVER DETAILS	FIG. NO. 9-2

J:\SAUGET AREA 2\GRADING\SITE PLANS.DWG



EMBANKMENT COVER DESIGN CRITERIA:

4% SLOPE (CENTER CROWNED)

FINISHED GRADE SHOWN, SUB-SURFACE LAYERS ARE:
- 6 INCH TOP SOIL
- 18 INCH SUITABLE FILL MATERIAL
- 18 INCH THICK LINER
- VARIABLE THICKNESS CLAY CAP (6 INCH MINIMUM)

DITCH SECTION: 3 FOOT DITCH BOTTOM, 2 FEET DEEP
WITH 2:1 SIDE SLOPES, 10 FEET FROM TOE OF EMBANKMENT

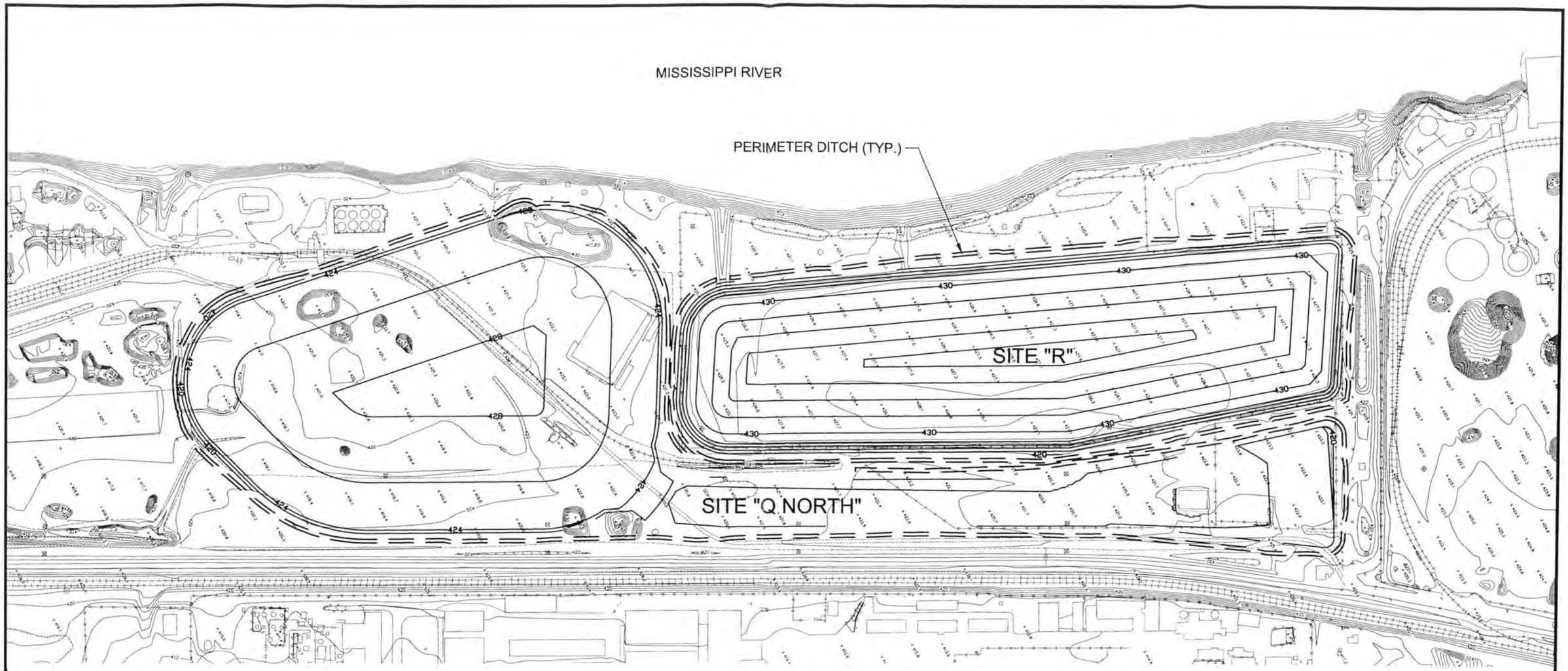
N

0 300
SCALE FEET

2 FOOT CONTOUR INTERVAL

SAUGET AREA 2 LOW PERMEABILITY COVER SAUGET, ILLINOIS		PROJECT NO. 2156088.07003
URS		
DRN. BY: TMS 10-31-03 DSGN. BY: ASN CHKD. BY:	CONCEPTUAL FINISH GRADING PLAN SITE "S", "O" AND "O NORTH"	FIG. NO. 9-3

J:\SAUGET AREA 2\GRADING\SITE PLANS.DWG



SITE "Q NORTH"
EMBANKMENT COVER DESIGN CRITERIA:

1% SLOPE (CENTER CROWNED)

FINISHED GRADE SHOWN, SUB-SURFACE LAYERS ARE:
- 1 INCH ASPHALT SURFACE COURSE
- 3 INCH ASPHALT BASE COURSE
- 6 INCH AGGREGATE
- 9 INCH SUITABLE FILL MATERIAL
- 18 INCH THICK LINER
- VARIABLE THICKNESS CLAY CAP (6 INCH MINIMUM)

DITCH SECTION: 3 FOOT DITCH BOTTOM, 2 FEET DEEP
WITH 2:1 SIDE SLOPES, 10 FEET FROM TOE OF EMBANKMENT

SITE "R"
EMBANKMENT COVER DESIGN CRITERIA:

4% SLOPE (CENTER CROWNED)

FINISHED GRADE SHOWN, SUB-SURFACE LAYERS ARE:
- 6 INCH TOP SOIL
- 18 INCH SUITABLE FILL MATERIAL
- 18 INCH THICK LINER
- VARIABLE THICKNESS CLAY CAP (6 INCH MINIMUM)

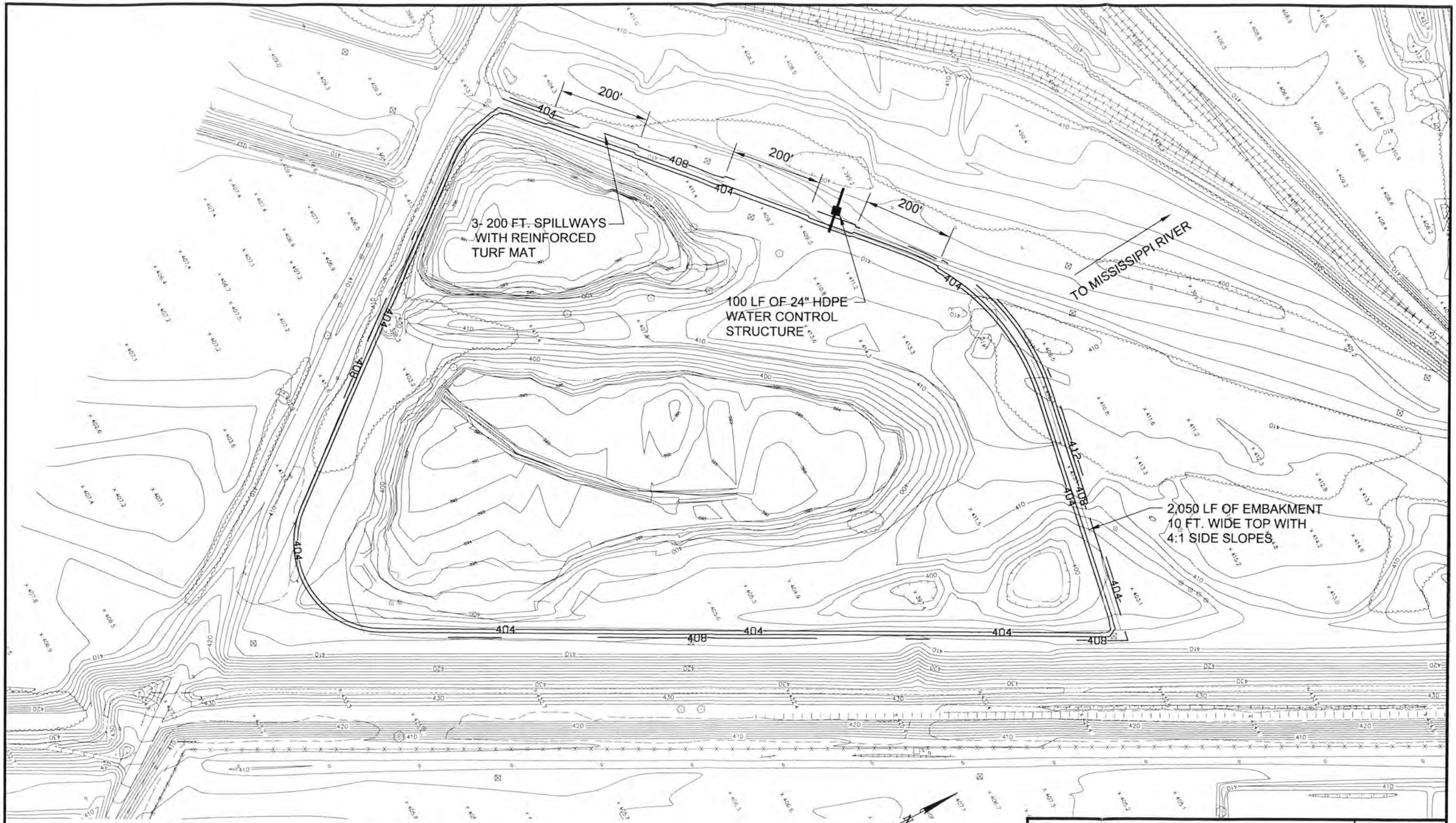
DITCH SECTION: 3 FOOT DITCH BOTTOM, 2 FEET DEEP
WITH 2:1 SIDE SLOPES, 10 FEET FROM TOE OF EMBANKMENT

0 300
SCALE FEET

2 FOOT CONTOUR INTERVAL

SAUGET AREA 2 LOW PERMEABILITY COVER SAUGET, ILLINOIS		PROJECT NO. 2156088.07003
URS		
DRN. BY: TMS 11-10-03 DSGN. BY: ASN CHKD. BY:	CONCEPTUAL FINISH GRADING PLAN SITE "R" AND "Q NORTH"	FIG. NO. 9-4

J:\SAUGET AREA 2\GRADING\SITE PLANS.DWG



DESIGN CRITERIA:

TOP OF EMBANKMENT EL. = 407.25, TOP OF SPILLWAY EL. = 406.25
INTERIOR FINISH GRADE EL.= 403.25 (2 FT. OF IMPOUND WITH 1 FT. OF FREEBOARD)

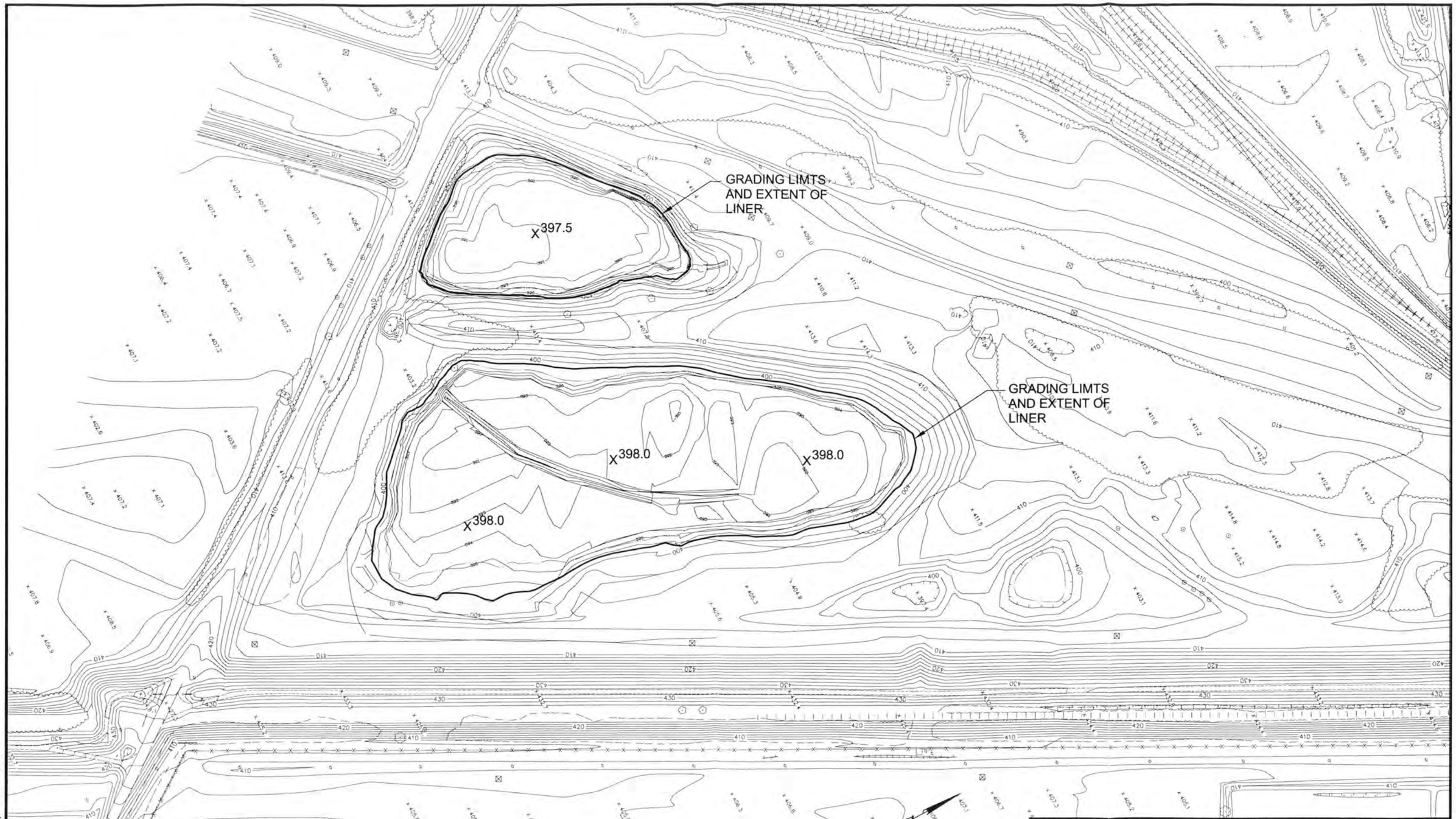
FINISHED GRADE SHOWN, SUB-SURFACE LAYERS ARE:
6 INCH TOP SOIL ABOVE 18 INCHES SUITABLE FILL MATERIAL
WITH NON-PERMEABLE LINER ABOVE 6 INCH LEVELING COURSE

0 200
SCALE FEET

2 FOOT CONTOUR INTERVAL

SAUGET AREA 2 WETLAND CONSTRUCTION SAUGET, ILLINOIS	PROJECT NO. 2156088.07003
URS	
DRN. BY: TMS 11-18-03 DSGN. BY: BDL CHKD. BY:	CONSTRUCTED WETLAND CONCEPTUAL PLAN FOR "Q" PONDS ALTERNATIVE 3 — FIG. NO. 9-5

J:\SAUGET AREA 2\WETLAND\EXHIBIT.DWG

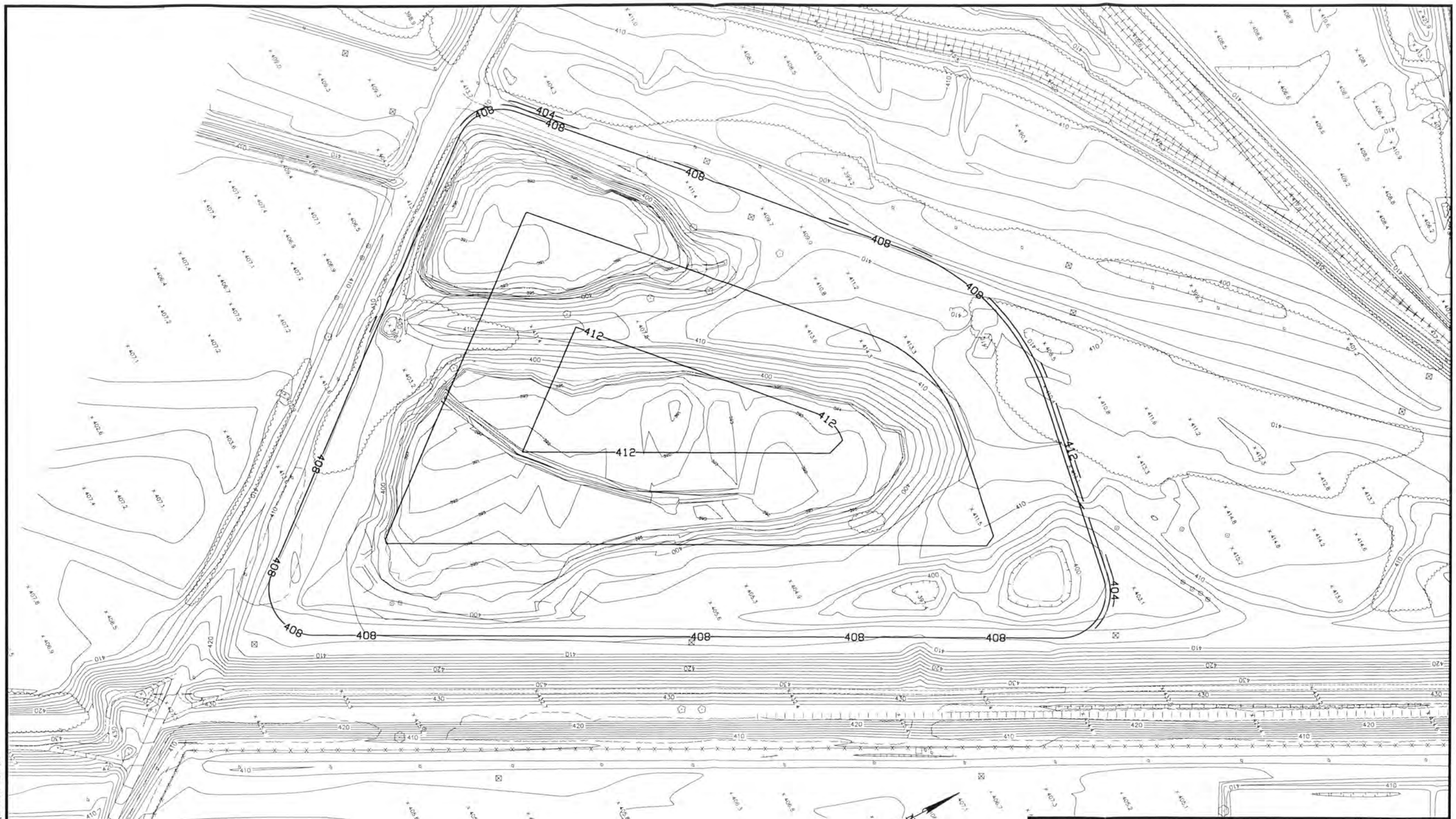


0 200
SCALE FEET

2 FOOT CONTOUR INTERVAL

SAUGET AREA 2 WETLAND CONSTRUCTION SAUGET, ILLINOIS	PROJECT NO. 2156088.07003
URS	
DRN. BY: TMS 11-18-03 DSGN. BY: BDL CHKD. BY:	CONCEPTUAL PLAN FOR POND LINING – "Q" PONDS ALTERNATIVE 4 — FIG. NO. 9-6

J:\SAUGET AREA 2\WETLAND\EXHIBIT-1.DWG



LEGEND

—— 412 —— PROPOSED FINAL GRADE ELEVATIONS

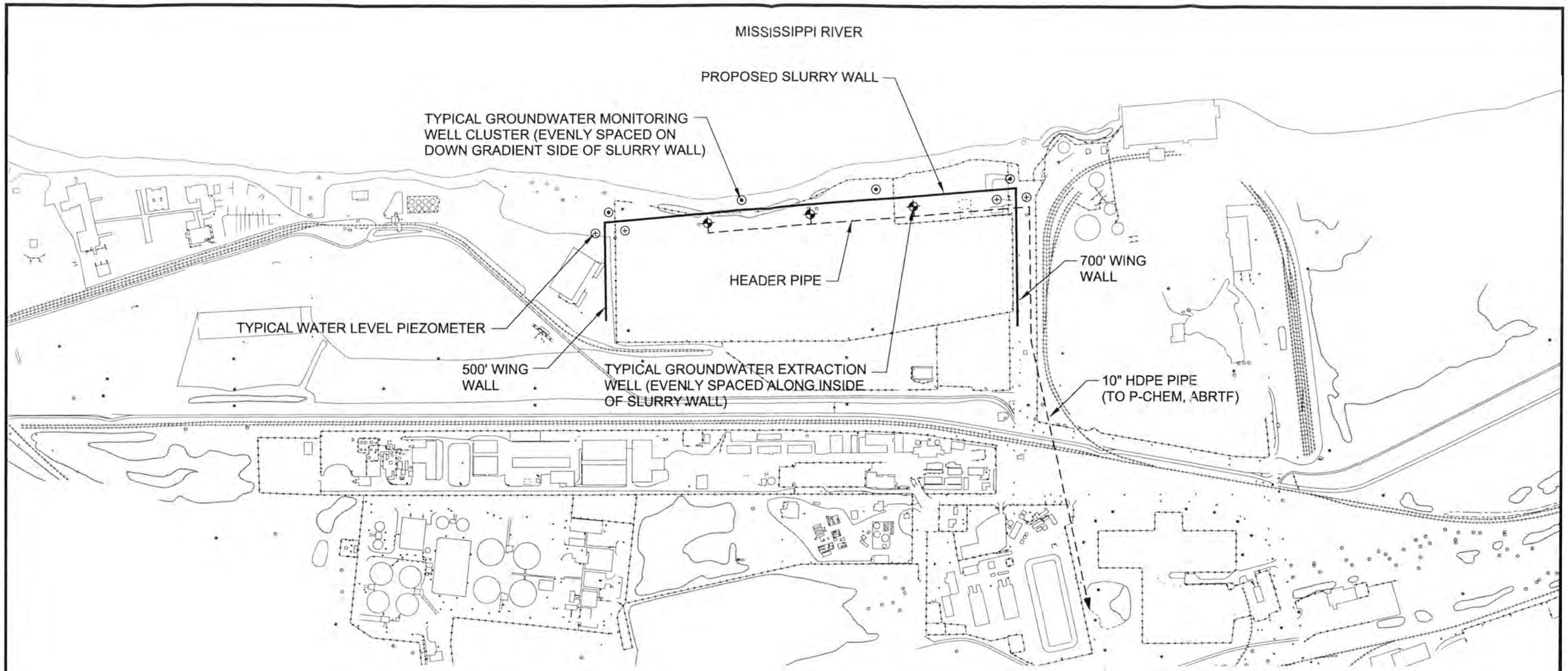
0 200

SCALE FEET

2 FOOT CONTOUR INTERVAL

SAUGET AREA 2 WETLAND CONSTRUCTION SAUGET, ILLINOIS	PROJECT NO. 2156088.07003
URS	
DRN. BY: TMS 11-18-03 DSGN. BY: BDL CHKD. BY:	CONCEPTUAL PLAN FOR POND FILLING – "Q" PONDS ALTERNATIVE 5 — FIG. NO. 9-7

J:\SAUGET AREA 2\WETLAND\EXHIBIT-2.DWG



PRINCIPAL DESIGN COMPONENTS:

- 2,100 FOOT SLURRY WALL (BARRIER WALL)
- 3 EXTRACTION WELLS (WITH HEADER PIPE)
- 4 MONITORING WELL CLUSTERS
- 4 PIEZOMETERS

NOTE: GROUNDWATER EXTRACTION RATE IS APPROXIMATELY 5,359 GPM.

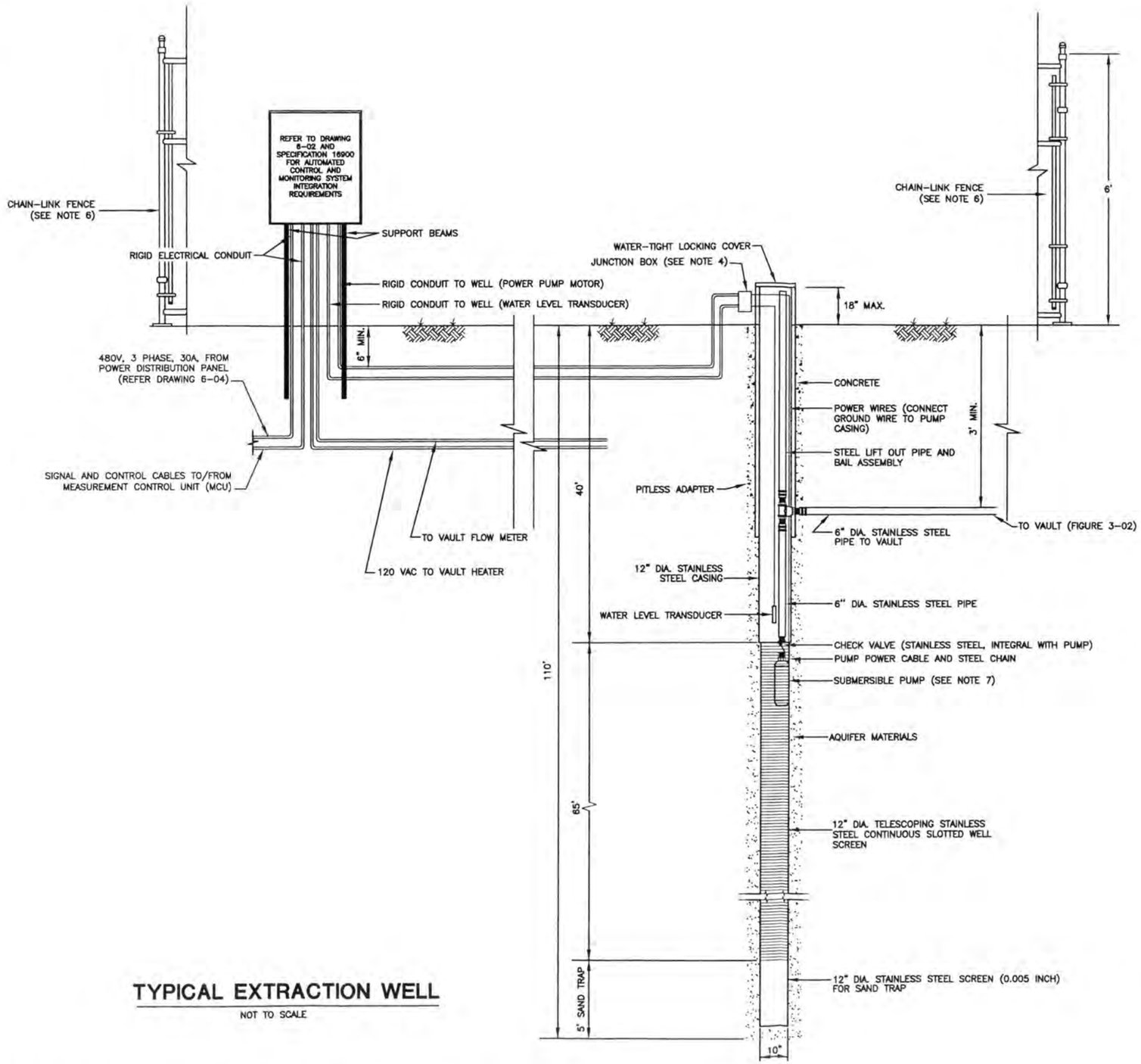
LEGEND

- BARRIER WALL
- HEADER PIPE
- GROUNDWATER EXTRACTION WELL
- GROUNDWATER MONITORING WELL CLUSTER
- WATER LEVEL PIEZOMETER

0 500
SCALE FEET

SAUGET AREA 2 GROUNDWATER ALTERNATIVES SAUGET, ILLINOIS	PROJECT NO. 2156088.07003
URS	
DRN. BY: TMS 11-06-03 DSGN. BY: CJF CHKD. BY:	CONCEPTUAL DESIGN GROUNDWATER ALTERNATIVE 3 — FIG. NO. 9-8

December 16, 2003 9:24:28 am (TMS)
J:\Sauget Area 2\Slurry Wall\ALTERNATE-3.dwg



NOTES

1.) TYPICAL WELL CONSTRUCTION. ACTUAL PLACEMENT OF WELL SCREEN AND CASING TO BE MODIFIED BY REMEDIAL DESIGNER BASED ON FIELD CONDITIONS.

2.) COMPLETION OF EXTRACTION WELLS SHALL BE UNDER THE DIRECT SUPERVISION OF THE REMEDIAL DESIGNER OR OTHER QUALIFIED PROFESSIONAL DESIGNATED BY SOLUTIA. THE FINAL COMPLETION OF EXTRACTION WELLS WILL BE BASED ON ACTUAL CONDITIONS ENCOUNTERED DURING WELL CONSTRUCTION.

3.) SUPPORT PUMP AND DISCHARGE PIPING FROM TOP. DO NOT ALLOW PITLESS ADAPTER TO SUPPORT PUMP UNLESS PITLESS ADAPTER IS CONCRETED IN PLACE. PROVIDE STAINLESS STEEL CHAIN TO ATTACH TO PUMP.

4.) ALL WIRING BETWEEN THE EXTRACTION WELLS AND CONTROL PANEL SHALL BE SUBMERSIBLE. CONNECT WIRES TO WELL CONDUIT USING SEAL TIGHT CONNECTORS. PROVIDE ELECTRICAL BOX (NEMA 6)AT GROUND SURFACE SIZED TO STORE A MINIMUM OF 5 FEET OF EXCESS WIRES (SLACK) COILED NEATLY IN JUNCTION BOX FOR ADJUSTING DEPTH IN WELLS.

5.) PRESSURE TRANSDUCER TO BE INSTALLED IN EACH WELL IN ORDER TO GAUGE DRAWDOWN, 5 FEET ABOVE TOP OF PUMP.

6.) CONTRACTOR SHALL INSTALL A CHAIN LINK FENCE ENCLOSURE AROUND THE PERIMETER OF EACH WELL.

7.) SUBMERSIBLE PUMP TO BE PLACED WITHIN SCREEN AT DEPTH OF 60 FEET BELOW GROUND SURFACE.

8.) EXISTING WELL EW-2 HAS 10.75-IN. O.D. CASING AND 10-IN. TELESCOPING WELL SCREEN.

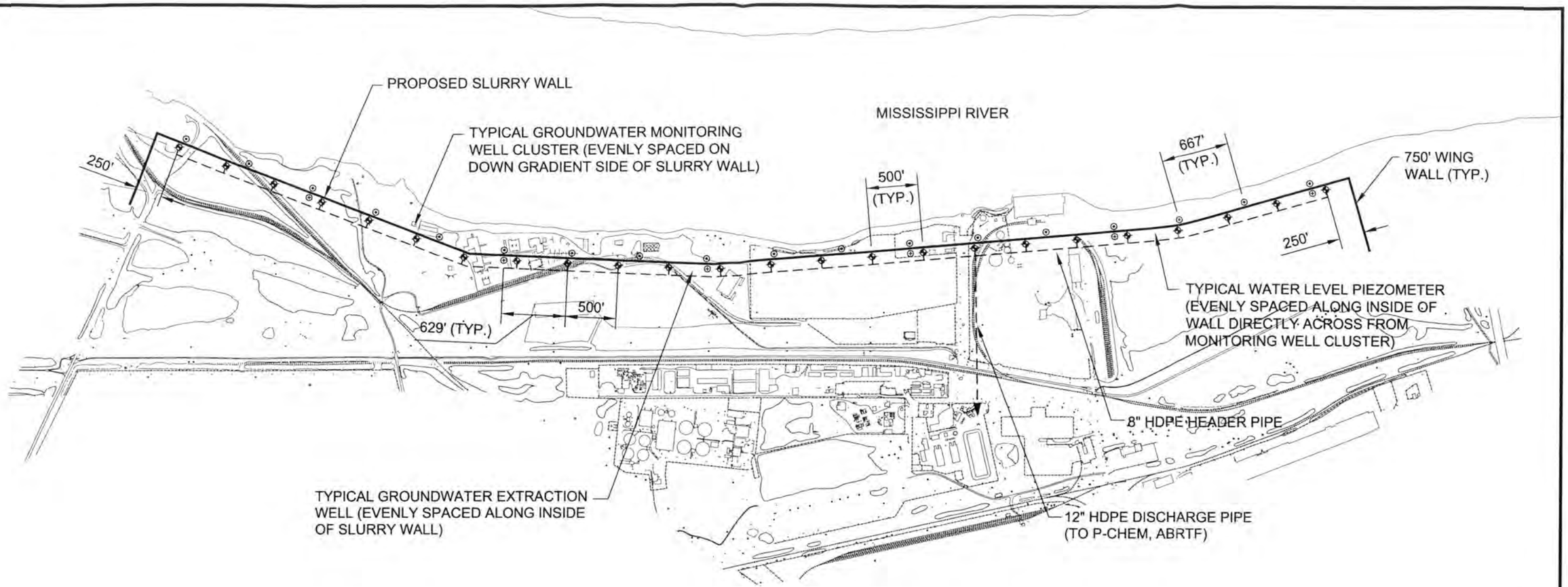
TYPICAL EXTRACTION WELL

NOT TO SCALE

SOURCE: SITE R GROUNDWATER MIGRATION CONTROL SYSTEM, DESIGN DRAWINGS, URS, JULY 3, 2003.

SAUGET AREA 2 RI/FS SAUGET ILLINOIS	PROJECT NO. 21560888.07001
URS	
DRN. BY: RAD 11/17/03 DSGN. BY: CJF CHKD. BY:	TYPICAL EXTRACTION WELL — FIG. NO. 9-9

December 18, 2003 9:20:03 am (TMS)
J:\Sauget Area 2\21560888\07003_Extraction-well.dwg



PRINCIPAL DESIGN COMPONENTS:

12,000 FOOT SLURRY WALL (BARRIER WALL)

24 EXTRACTION WELLS (WITH HEADER PIPE)

18 MONITORING WELL CLUSTERS

6 PIEZOMETERS

NOTE: GROUNDWATER EXTRACTION RATE IS APPROXIMATELY 3,000 GPM.

LEGEND

BARRIER WALL

HEADER PIPE

GROUNDWATER EXTRACTION WELL

GROUNDWATER MONITORING WELL CLUSTER

WATER LEVEL PIEZOMETER

0 1000

SCALE FEET

SAUGET AREA 2 RI/FS SAUGET ILLINOIS	PROJECT NO. 21560888.07001
URS	
DRN. BY: TMS 11-06-03 DSGN. BY: CJF CHKD. BY:	CONCEPTUAL DESIGN GROUNDWATER ALTERNATIVE 4 — FIG. NO. 9-10

December 16, 2003 9:25:27 am (TMS)
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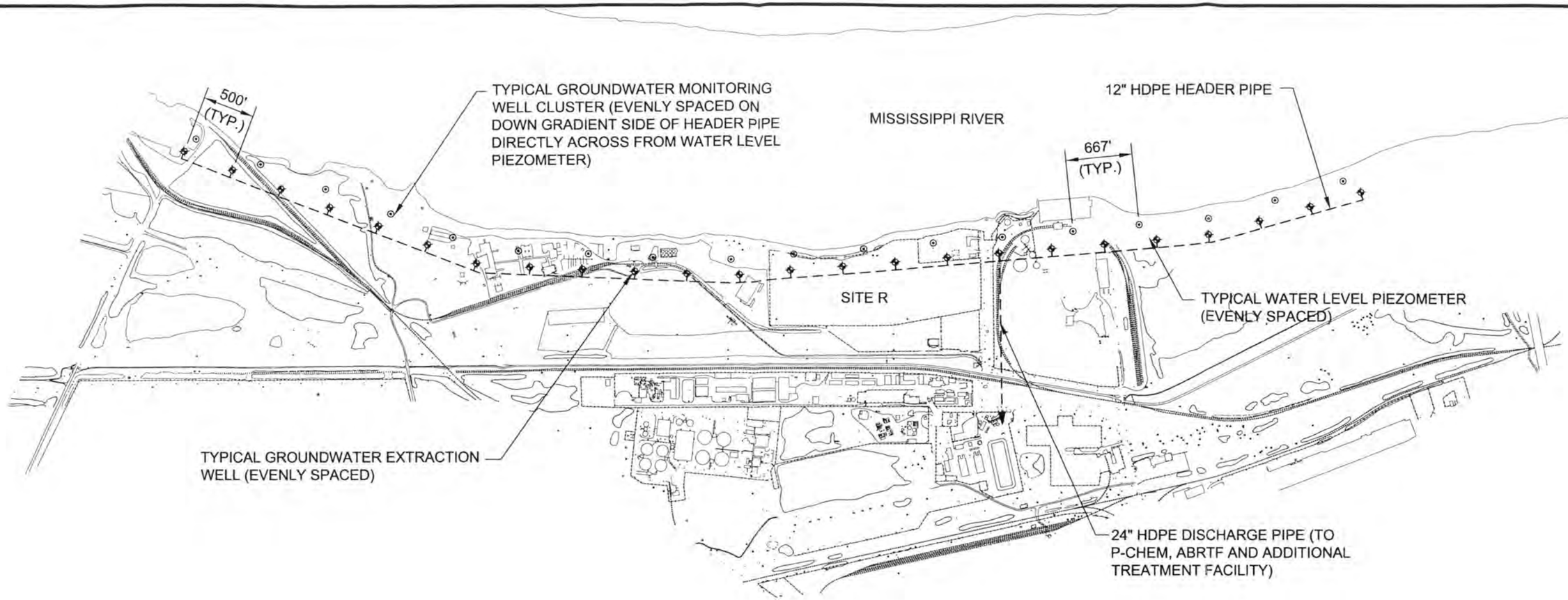

PRINCIPAL DESIGN COMPONENTS:

24 EXTRACTION WELLS (WITH HEADER PIPE)

18 MONITORING WELL CLUSTERS

LEGEND

- - - - HEADER PIPE

GROUNDWATER EXTRACTION WELL

GROUNDWATER MONITORING WELL CLUSTER

NOTE: MAXIMUM SUSTAINABLE GROUNDWATER EXTRACTION RATE IS 1,100 gpm/well (26,400gpm)

0 1000
SCALE FEET

SAUGET AREA 2 RI/FS SAUGET ILLINOIS	PROJECT NO. 21560888.07001
URS	
DRN. BY: TMS 11-06-03 DSGN. BY: CJF CHKD. BY:	CONCEPTUAL DESIGN GROUNDWATER ALTERNATIVE 5
FIG. NO. 9-11	

December 16, 2003 9:26:26 am (TMS)
J:\Sauget Area 2\Slurry Wall\ALTERNATE-5.dwg