4B-2

Groundwater Data Used in the Modeling

DATA USED IN EVALUATION OF NATURE AND EXTENT OF GROUNDWATER CONTAMINATION

In General, data from low-flow unfiltered samples are used because they are considered to best represent aquifer conditions. However, if samples did not stabilize (usually due to very high turbidity), filtered samples from those locations are used, if available, for metals and SVOCs because they are considered to be more representative of actual concentrations in groundwater moving through the aquifer than the results from unfiltered, highly turbid samples. The results for metals and SVOCs in the highly turbid samples may be exaggerated due to the binding of these substances on the fine particles in the sample. Details on which samples are included in the data set used to evaluate the nature and extent of contamination in groundwater are presented below.

Metals and SVOCs samples in data set:

TtNUS samples (MSGRP)--all unfiltered results --- except:
- use filtered results for AE02 sample at elev 7.3 ft (IPGW-AE02-0046-021302) [non-stabilized: very high turbidity]
- omit sample from MW-04 at elev 52.3 ft. (IPGW-MW04-0012-032502) [Sample collected 3 ft above screen; resampled later at 50 ft elevation within screen - that sample used]

O'Brien & Gere samples (Final GSIP SOW Groundwater and Soil Investigation) --all unfiltered --- except:
- if sample designated non-stabilized (NS suffix on nsample), use filtered results
- Include "overlapping" arsenic data for both Lancaster & Brooks Rand labs - average the 2 values for each sample

Robert Ford (Natural Attenuation Study) -- metals and organics data from selected wells in west hide pile area used to fill data gaps in arsenic, benzene and toluene data for west hide pile area. They were used in gw modeling to better define plume in that area and were included in the stats data set for consistency. Data used from R.Ford wells: A1, A2, A3, A4, A5, A6, A7, A22, and A23

Other Organics samples in data set:

TtNUS samples (MSGRP) -- all unfiltered - <u>including</u> AE02 elev 7.3 ft
-- omit MW-04 sample for reasons stated above

O'Brien & Gere samples (Final GSIP SOW Groundwater and Soil Investigation) -- all unfiltered -- <u>including</u> NS samples

Roux samples (Final GSIP SOW Source Area Investigation) -- all unfiltered (analyzed for benzene & toluene only)

TABLE 1
ANALYTICAL RESULTS USED IN GROUNDWATER MODELING
MSGRP REMEDIAL INVESTIGATION REPORT
INDUSTRI-PLEX SITE, WOBURN, MASSACHUSETTS

Well ID	Sample Elevation (ft NGVD 88)	Parameter	Value Used in Modeling* (µg/L)
A01	53.6	Arsenic	0.014
A01	44.6	Arsenic	0.004
A02	61.2	Arsenic	0.362
A03	65.1	Arsenic	0.069
A03	55.1	Arsenic	0.635
A04	59.2	Arsenic	2.798
A04	49.5	Arsenic	0.706
A06	62.2	Arsenic	6.012
A06	52.2	Arsenic	1.156
A22	64.4	Arsenic	0.02
A22	59.4	Arsenic	0.823
A23	64.3	Arsenic	0.02
A23	57.3	Arsenic	0.02
AA01	66.1	Arsenic	10.5
AA01	50.1	Arsenic	1.3
AA02	66.0	Arsenic	0.85
AA03	68.3	Arsenic	0.85
AA05	62.8	Arsenic	1.3
AA06	68.1	Arsenic	1.2
AA06	60.1	Arsenic	1.2
AA06	53.1	Arsenic	6.8
AA07	68.6	Arsenic	1.2
AA07	60.6	Arsenic	0.85
AA07	41.6	Arsenic	0.85
AA08	66.1	Arsenic	1.2
AA09	69.8	Arsenic	1.2
AC01	45.7	Arsenic	142
AC01	27.7	Arsenic	359
AC02	42.0	Arsenic	28.9
AC02	37.0	Arsenic	1
AC02	20.0	Arsenic	1
AC03	42.5	Arsenic	110
AC03	24.5	Arsenic	1
AC03	13.5	Arsenic	3.4
AC04	45.4	Arsenic	1
AC04	29.4	Arsenic	2
AC04	10.4	Arsenic	1
AC05	43.0	Arsenic	83.4
AC05	29.0	Arsenic	13.4
AC06	51.7	Arsenic	0.85
AC06	48.7	Arsenic	0.85
AC06	38.7	Arsenic	0.85
AE01	42.5	Arsenic	30.3
AE01	18.1	Arsenic	0.85
AE01	8.5	Arsenic	1.4
AE01	-13.5	Arsenic	0.85

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INDUSTRI-PLEX SITE, WOBURN, MASSACHUSETTS

Well ID	Sample Elevation (ft NGVD 88)	Parameter	Value Used in Modeling* (µg/L)
AE02	41.3	Arsenic	90.1
AE02	7.3	Arsenic	34.8
AE02	-18.7	Arsenic	0.85
AE03	44.2	Arsenic	145
AE03	4.2	Arsenic	0.85
AE03	-23.8	Arsenic	0.85
AE04	43.0	Arsenic	3.65
AE04	-5.0	Arsenic	6.3
AE04	-32.0	Arsenic	2.6
AE05	41.6	Arsenic	45.5
AE05	25.6	Arsenic	0.85
AE05	-7.4	Arsenic	0.85
AE06	45.9	Arsenic	29.4
AE06	32.9	Arsenic	1.65
AE06	12.9	Arsenic	1.8
AE07	44.3	Arsenic	0.85
AE07	29.3	Arsenic	0.85
AF01	40.3	Arsenic	27.9
AF01	-8.7	Arsenic	0.85
AF01	-49.7	Arsenic	1
AF02	40.2	Arsenic	1.2
AF02	22.2	Arsenic	5.4
AF02	-20.8	Arsenic	1.2
AF03	43.6	Arsenic	0.85
AF03	24.6	Arsenic	0.85
AF03	12.6	Arsenic	0.85
AF03	0.6	Arsenic	0.85
AG01	46.5	Arsenic	0.85
AG01	3.5	Arsenic	0.85
AG01	-12.5	Arsenic	0.85
AG02	42.8	Arsenic	10.2
AG02	16.8	Arsenic	0.85
AG02	-22.2	Arsenic	0.85
AG03	39.4	Arsenic	192
AG03	1.4	Arsenic	3.2
AG03	-24.6	Arsenic	4.7
AP01	67.2	Arsenic	158
AP01	61.2	Arsenic	1.2
AP02	68.4	Arsenic	34.4
AP02	63.4	Arsenic	1.2
AP02	53.4	Arsenic	3.4
AP03	65.7	Arsenic	0.85
AP03	59.7	Arsenic	1.2
B1-01	66.0	Arsenic	59.5
B1-01	59.6	Arsenic	37.3
B1-01	64.1	Arsenic	67.3

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INDUSTRI-PLEX SITE, WOBURN, MASSACHUSETTS

Well ID	Sample Elevation (ft NGVD 88)	Parameter	Value Used in Modeling* (µg/L)
B1-02	68.7	Arsenic	10.9
B1-04	71.8	Arsenic	0.381
B1-04	62.0	Arsenic	28.8
B1-04	70.0	Arsenic	4
B1-05	59.6	Arsenic	98.1
B1-05	54.0	Arsenic	66.9
B1-05	47.0	Arsenic	93.1
B2-01	57.8	Arsenic	7.57
B2-02	58.2	Arsenic	3.33
B2-02	52.8	Arsenic	0.229
B2-02	49.4	Arsenic	0.473
B2-03	57.5	Arsenic	3.82
B2-03	42.9	Arsenic	300
B2-03	27.2	Arsenic	35.7
B2-04	59.7	Arsenic	59.1
B2-04	55.7	Arsenic	11.5
B2-04	49.7	Arsenic	34.3
B2-05	60.5	Arsenic	33.7
B2-05	53.7	Arsenic	234
B2-05	49.8	Arsenic	462
B2-05	43.8	Arsenic	787
B2-05	53.1	Arsenic	77.2
B2-05	44.0	Arsenic	14.8
B2-06	66.9	Arsenic	227
B2-06	61.2	Arsenic	244
B2-06	58.6	Arsenic	239
B2-06	62.4	Arsenic	87.9
B3-01	64.2	Arsenic	4.18
B3-01	64.4	Arsenic	7.64
B3-01	63.2	Arsenic	4.13
B3-02	60.1	Arsenic	309
B3-02	55.1	Arsenic	646
B3-02	60.0	Arsenic	33.9
B3-02	55.3	Arsenic	465.5
B3-03	59.9	Arsenic	148
B3-03	51.3	Arsenic	256
B3-03	48.2	Arsenic	172
B3-03	39.6	Arsenic	97.3
B3-03	57.9	Arsenic	506
B3-04	59.5	Arsenic	5.02
B3-05	60.2	Arsenic	68.8
B4-01	54.6	Arsenic	1.19
B4-01	42.9	Arsenic	23.4
B4-01	30.3	Arsenic	4.19
B4-02	50.9	Arsenic	0.252
B4-02	45.7	Arsenic	0.97

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INDUSTRI-PLEX SITE, WOBURN, MASSACHUSETTS

Well ID	Sample Elevation (ft NGVD 88)	Parameter	Value Used in Modeling* (µg/L)
B4-02	36.4	Arsenic	5.99
B4-03	52.6	Arsenic	267
B4-03	40.2	Arsenic	30.4
B4-03	20.6	Arsenic	590
B4-03	19.3	Arsenic	31.0
B4-04	54.7	Arsenic	6320
B4-04	45.0	Arsenic	1074
B4-04	37.4	Arsenic	247
B4-04	56.0	Arsenic	240.0
B4-04	45.1	Arsenic	233.1
B4-05	54.1	Arsenic	256
B4-05	50.0	Arsenic	553
B4-05	42.1	Arsenic	526
B4-05	41.4	Arsenic	4.9
B5-01	54.1	Arsenic	300
B5-01	49.8	Arsenic	161
B5-01	42.8	Arsenic	425
B5-01	32.8	Arsenic	251
B5-01	54.5	Arsenic	248.0
B5-02	58.0	Arsenic	232
B5-02	51.3	Arsenic	626
B5-02	42.5	Arsenic	1119
B5-02	52.2	Arsenic	1166.5
B5-02	44.4	Arsenic	900.0
B5-03	61.0	Arsenic	46.1
B5-03	48.6	Arsenic	373
B5-03	35.9	Arsenic	140
B5-03	36.4	Arsenic	346.5
B5-04	57.1	Arsenic	0.575
B5-05	61.3	Arsenic	12
B5-06	60.2	Arsenic	0.1
B5-06	56.6	Arsenic	60.3
B5-06	53.6	Arsenic	88.5
B5-06	51.1	Arsenic	47
B6-01	55.6	Arsenic	10.5
B6-01	44.7	Arsenic	23.5
B6-02	55.2	Arsenic	16.9
B6-02	52.3	Arsenic	191
B6-02	47.2	Arsenic	74.3
B6-03	55.0	Arsenic	750
B6-03	48.5	Arsenic	1133
B6-03	38.6	Arsenic	354
B6-03	55.4	Arsenic	68.0
B6-03	49.4	Arsenic	1262.5
B6-03	39.4	Arsenic	352.0
B6-04	52.6	Arsenic	84.9

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Well ID	Sample Elevation (ft NGVD 88)	Parameter	Value Used in Modeling* (µg/L)
B6-04	49.1	Arsenic	29.9
B6-04	44.4	Arsenic	5.73
B6-05	53.9	Arsenic	18.3
B6-05	42.9	Arsenic	42.1
B6-05	26.8	Arsenic	33
B7-01	51.7	Arsenic	24400
B7-01	45.9	Arsenic	878
B7-01	27.5	Arsenic	761
B7-01	0.4	Arsenic	1120
B7-01	50.8	Arsenic	17973.0
B7-01	-0.5	Arsenic	12.1
B7-02	48.8	Arsenic	1058
B7-02	40.0	Arsenic	950
B7-02	29.8	Arsenic	202
B7-02	48.4	Arsenic	2449.5
B7-02	39.1	Arsenic	534.5
B7-03	51.7	Arsenic	36.1
B7-03	49.6	Arsenic	14.1
B7-03	36.4	Arsenic	264
B7-03	34.4	Arsenic	271.7
B7-03	17.0	Arsenic	702
B7-03	14.6	Arsenic	460.8
B7-04	51.8	Arsenic	71.1
B7-04	42.3	Arsenic	218
B7-04	32.3	Arsenic	638
B7-05	56.0	Arsenic	89.5
B7-05	19.5	Arsenic	14.9
B7-05	-11.1	Arsenic	0.134
B7-06	51.6	Arsenic	0.303
B7-06	45.0	Arsenic	0.28
B7-06	38.9	Arsenic	0.219
B7-07	51.0	Arsenic	0.158
B7-07	42.0	Arsenic	1.33
B7-07	27.2	Arsenic	1.14
B8-01	47.5	Arsenic	857
B8-01	19.4	Arsenic	566
B8-01	-7.9	Arsenic	115
B8-01	48.3	Arsenic	316.5
B8-01	-6.2	Arsenic	652.0
B8-02	45.4	Arsenic	31.3
B8-02	26.1	Arsenic	87.7
B8-02	6.6	Arsenic	105
B8-03	48.0	Arsenic	311
B8-03	30.1	Arsenic	968
B8-03	15.4	Arsenic	442
B8-04	48.2	Arsenic	0.2

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Well ID	Sample Elevation (ft NGVD 88)	Parameter	Value Used in Modeling* (µg/L)
B8-04	26.7	Arsenic	1070.0
B8-04	21.0	Arsenic	1124
B8-04	3.5	Arsenic	368
B8-05	48.2	Arsenic	86.8
B8-05	15.9	Arsenic	23.3
B8-05	-16.6	Arsenic	16.3
B8-06	52.8	Arsenic	332
B8-06	35.3	Arsenic	56.8
B8-06	11.5	Arsenic	99.3
B9-01	47.4	Arsenic	543
B9-01	45.3	Arsenic	71.1
B9-01	35.1	Arsenic	28.3
B9-01	26.8	Arsenic	48.3
B9-01	22.6	Arsenic	30.3
B9-02	47.8	Arsenic	224
B9-02	32.2	Arsenic	21.7
B9-02	28.1	Arsenic	16.4
B9-02	4.5	Arsenic	7.46
B9-03	45.6	Arsenic	13.1
B9-03	26.1	Arsenic	2.94
B9-03	5.3	Arsenic	4.91
B9-04	55.0	Arsenic	50.6
B9-04	46.6	Arsenic	2.08
B9-04	34.0	Arsenic	6.99
B9-04	54.6	Arsenic	108.0
B9-05	45.0	Arsenic	64.5
B9-05	30.2	Arsenic	8.95
B9-05	15.5	Arsenic	2.14
B9-05	45.5	Arsenic	15.6
B9-06	46.7	Arsenic	0.56
B9-06	28.6	Arsenic	5.4
B9-06	6.0	Arsenic	4.6
CA02	58.2	Arsenic	3.7
CA03	61.5	Arsenic	0.85
CA03	54.5	Arsenic	0.85
CA03	50.5	Arsenic	0.85
CA04	60.8	Arsenic	10.8
CA04	47.8	Arsenic	0.85
CA04	39.8	Arsenic	0.85
CA05	64.3	Arsenic	0.85
CA05	56.3	Arsenic	0.85
CA05	41.3	Arsenic	0.85
CA06	56.7	Arsenic	0.85
CA06	50.7	Arsenic	0.85
CA06	40.7	Arsenic	0.85
CA07	60.0	Arsenic	0.85

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Well ID	Sample Elevation (ft NGVD 88)	Parameter	Value Used in Modeling* (µg/L)
CA08	59.1	Arsenic	0.85
CA09	57.2	Arsenic	0.85
CA09	53.2	Arsenic	4.9
CA09	40.2	Arsenic	0.85
E3-01	49.1	Arsenic	0.998
E3-01	22.2	Arsenic	1.35
E3-01	21.4	Arsenic	0.449
E3-02	43.0	Arsenic	3.26
E3-02	40.3	Arsenic	0.1
E3-02	26.6	Arsenic	0.4285
E3-02	1.5	Arsenic	2.6
E3-03	56.0	Arsenic	1.32
E3-03	43.9	Arsenic	0.402
E3-03	41.3	Arsenic	0.48
E3-03	30.1	Arsenic	0.297
E4-01	48.7	Arsenic	0.972
E4-01	38.8	Arsenic	0.902
E4-01	34.9	Arsenic	0.853
E4-01	47.3	Arsenic	0.52
E4-02	53.7	Arsenic	5.6
E4-02	40.1	Arsenic	0.416
E4-02	28.2	Arsenic	1.52
E4-02	55.5	Arsenic	77.0
E4-03	57.1	Arsenic	5.43
E4-03	46.1	Arsenic	3928
E4-03	39.3	Arsenic	13.1
E4-03	56.2	Arsenic	594
E4-03	39.9	Arsenic	25.4
E4-04	47.3	Arsenic	0.677
E4-04	29.9	Arsenic	2.18
E4-04	12.1	Arsenic	3.05
H1-01	47.5	Arsenic	3.08
H1-01	42.5	Arsenic	0.3775
H1-01	32.9	Arsenic	0.88
H1-02	43.4	Arsenic	11.3
H1-02	35.7	Arsenic	0.951
H1-03	46.9	Arsenic	2.4
H1-03	38.7	Arsenic	1.3
H1-03	30.0	Arsenic	9.78
H1-03	23.5	Arsenic	6.48
H1-03	15.5	Arsenic	3.21
H1-03	24.1	Arsenic	1.07
H1-03	22.5	Arsenic	0.38
H1-04	49.3	Arsenic	1.48
H1-04	39.4	Arsenic	1.35
H1-04	30.3	Arsenic	2.54

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Well ID	Sample Elevation (ft NGVD 88)	Parameter	Value Used in Modeling* (µg/L)
H1-04	25.0	Arsenic	6.18
H1-04	20.9	Arsenic	12.2
H1-04	10.5	Arsenic	14.3
H1-04	30.0	Arsenic	6.96
H1-04	24.6	Arsenic	1.47
H1-04	11.6	Arsenic	1.0
H1-05	49.5	Arsenic	0.941
H1-05	40.1	Arsenic	3
H1-06	49.4	Arsenic	1.97
H1-06	41.3	Arsenic	1.08
H1-07	50.6	Arsenic	8.9
H1-07	42.4	Arsenic	0.977
H1-07	33.3	Arsenic	0.457
H2-01	46.1	Arsenic	2.34
H2-01	40.5	Arsenic	0.545
H2-02	52.1	Arsenic	2.31
H2-02	40.1	Arsenic	16.1
H2-02	31.1	Arsenic	5.01
H2-02	16.0	Arsenic	18.2
H2-02	39.6	Arsenic	47.8
H2-02	30.7	Arsenic	2.35
H2-02	15.3	Arsenic	1.3
H2-03	46.3	Arsenic	0.648
H2-03	38.4	Arsenic	0.47
H2-03	29.8	Arsenic	0.3345
H2-03	19.8	Arsenic	0.71
H2-03	7.7	Arsenic	0.72
H2-03	-1.1	Arsenic	1.15
H2-04	48.9	Arsenic	0.263
H2-04	38.9	Arsenic	0.38
H2-04	30.6	Arsenic	0.2035
H2-04	19.7	Arsenic	0.535
H2-04	13.0	Arsenic	13.1
H2-04	2.7	Arsenic	1.07
H2-04	-0.8	Arsenic	2.1
H2-04	-10.9	Arsenic	12.6
H2-04	-11.5	Arsenic	11.4
H2-05	48.1	Arsenic	0.581
H2-05	41.1	Arsenic	0.535
H2-05	29.1	Arsenic	0.1325
H2-05	19.1	Arsenic	5.12
H2-05	9.1	Arsenic	2.63
H2-05	0.4	Arsenic	1.76
H2-05	0.0	Arsenic	2.26
H2-06	45.4	Arsenic	0.478
H2-06	36.2	Arsenic	0.577

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Well ID	Sample Elevation (ft NGVD 88)	Parameter	Value Used in Modeling* (µg/L)
H2-06	27.4	Arsenic	0.1945
H2-06	16.5	Arsenic	0.281
H2-06	10.2	Arsenic	0.46
H2-06	7.2	Arsenic	0.35
H2-06	-3.4	Arsenic	0.721
L2-01	45.7	Arsenic	1.59
L2-01	35.2	Arsenic	6.34
L2-01	26.1	Arsenic	0.78
L2-01	15.7	Arsenic	0.328
L2-01	6.6	Arsenic	0.41
L2-01	-5.0	Arsenic	1.58
L2-01	-15.6	Arsenic	1.67
L2-02	47.2	Arsenic	0.179
L2-02	36.6	Arsenic	2.34
L2-02	27.2	Arsenic	2
L2-02	16.5	Arsenic	1.64
L2-02	8.8	Arsenic	0.1
L2-03	45.3	Arsenic	0.1
L2-03	35.3	Arsenic	1.9
L2-03	27.7	Arsenic	0.444
L2-03	21.9	Arsenic	0.16
L2-03	46.6	Arsenic	0.266
L2-03	46.2	Arsenic	1.1
L2-04	44.5	Arsenic	2.22
L2-04	33.4	Arsenic	0.1
L2-04	25.0	Arsenic	0.1
L2-05	46.9	Arsenic	263
L2-05	35.4	Arsenic	0.1665
L2-05	25.8	Arsenic	15
L2-05	45.7	Arsenic	363.5
L2-05	25.9	Arsenic	1.3
MW04	50.3	Arsenic	1.2
MW04	41.3	Arsenic	61.1
MW04	28.3	Arsenic	469
P1-01	45.6	Arsenic	8.5
P1-01	42.4	Arsenic	33.1
P1-01	36.3	Arsenic	1.9
P1-01	31.4	Arsenic	5.7
P1-01	24.0	Arsenic	2.3
P1-01	13.5	Arsenic	1.0
P1-01	3.3	Arsenic	2.2
P1-01	-5.2	Arsenic	87.3
P1-01	-15.7	Arsenic	4.6
P1-01	-26.7	Arsenic	6.4
P1-01	26.7	Arsenic	1.85
P1-01	-7.1	Arsenic	1.4

TABLE 1
ANALYTICAL RESULTS USED IN GROUNDWATER MODELING
MSGRP REMEDIAL INVESTIGATION REPORT
INDUSTRI-PLEX SITE, WOBURN, MASSACHUSETTS

Well ID	Sample Elevation (ft NGVD 88)	Parameter	Value Used in Modeling* (µg/L)
P1-01	-26.4	Arsenic	1.6
P1-02	43.7	Arsenic	57.3
P1-02	24.2	Arsenic	92.4
P1-02	13.5	Arsenic	43.1
P1-02	5.7	Arsenic	1.3
P1-02	-4.8	Arsenic	40.3
P1-02	-14.8	Arsenic	25.9
P1-02	-22.3	Arsenic	2.6
P1-02	-25.8	Arsenic	1.6
P1-02	-16.0	Arsenic	1.5
P1-03	46.8	Arsenic	2.2
P1-03	40.2	Arsenic	1.2
P1-03	29.2	Arsenic	17.2
P1-03	18.7	Arsenic	2.3
P1-03	9.8	Arsenic	1.2
P1-03	-0.3	Arsenic	9.9
P1-04	54.8	Arsenic	1.3
P1-04	44.8	Arsenic	1.1
P1-04	35.9	Arsenic	1.1
P1-04	23.8	Arsenic	1.7
P1-05	39.8	Arsenic	1.6
P1-05	30.7	Arsenic	1.0
P1-05	24.7	Arsenic	1.2
P1-05	12.1	Arsenic	1.5
P1-05	-1.3	Arsenic	1.3
P1-06	48.1	Arsenic	3.2
P1-06	40.6	Arsenic	1.1
P1-06	31.1	Arsenic	1.0
P1-06	21.1	Arsenic	1.0
P1-07	49.8	Arsenic	1.6
P1-07	41.8	Arsenic	1.2
P1-07	33.3	Arsenic	1.85
W5-01	50.2	Arsenic	1.36
W5-01	30.0	Arsenic	3.41
W5-01	12.0	Arsenic	5.22
W5-02	46.4	Arsenic	5.57
W5-02	14.6	Arsenic	59.6
W5-02	29.3	Arsenic	3.2
W5-03	21.7	Arsenic	563
W5-03	-2.2	Arsenic	5.2
W5-03	47.2	Arsenic	795.5
W5-03	22.4	Arsenic	662.0
W5-04	44.2	Arsenic	158
W5-04	30.0	Arsenic	44.7
W5-04	3.3	Arsenic	103
W5-05	45.9	Arsenic	53.5

TABLE 1
ANALYTICAL RESULTS USED IN GROUNDWATER MODELING
MSGRP REMEDIAL INVESTIGATION REPORT
INDUSTRI-PLEX SITE, WOBURN, MASSACHUSETTS

Well ID	Sample Elevation (ft NGVD 88)	Parameter	Value Used in Modeling* (µg/L)
W5-05	21.5	Arsenic	47.5
W5-05	25.0	Arsenic	337.9
W5-05	6.2	Arsenic	77.3
W5-06	46.8	Arsenic	29.8
W5-06	21.2	Arsenic	102
W5-06	17.7	Arsenic	20.2
W5-06	-2.0	Arsenic	32.6
W5-07	49.4	Arsenic	57.5
W5-07	28.2	Arsenic	1.03
W5-07	5.3	Arsenic	14.4
W5-08	56.7	Arsenic	114
W5-08	52.4	Arsenic	5.2
W5-08	39.4	Arsenic	8.69
W5-08	20.2	Arsenic	16.2
A01	53.6	Benzene	1.2
A01	44.6	Benzene	1
A02	61.2	Benzene	2.1
A03	65.1	Benzene	0
A03	55.1	Benzene	0
A04	59.2	Benzene	0
A04	49.5	Benzene	0
A04	41.7	Benzene	0
A05	65.3	Benzene	0
A06	62.2	Benzene	0
A06	52.2	Benzene	0
A07	64.2	Benzene	0
A07	54.2	Benzene	0
A22	64.4	Benzene	0
A22	59.4	Benzene	0
A23	64.3	Benzene	5
A23	57.3	Benzene	2
AA01	66.1	Benzene	0.25
AA01	50.1	Benzene	0.25
AA02	66.0	Benzene	0.25
AA03	68.3	Benzene	0.25
AA05	62.8	Benzene	0.25
AA06	68.1	Benzene	0.25
AA06	60.1	Benzene	0.25
AA06	53.1	Benzene	0.25
AA07	68.6	Benzene	0.25
AA07	60.6	Benzene	0.25
AA07	41.6	Benzene	0.25
AA08	66.1	Benzene	0.25
AA09	69.8	Benzene	0.25
AC01	45.7	Benzene	0.25
AC01	27.7	Benzene	0.25

TABLE 1
ANALYTICAL RESULTS USED IN GROUNDWATER MODELING
MSGRP REMEDIAL INVESTIGATION REPORT
INDUSTRI-PLEX SITE, WOBURN, MASSACHUSETTS

Well ID	Sample Elevation (ft NGVD 88)	Parameter	Value Used in Modeling* (µg/L)
AC02	42.0	Benzene	0.25
AC02	37.0	Benzene	0.25
AC02	20.0	Benzene	0.25
AC03	42.5	Benzene	0.25
AC03	24.5	Benzene	0.25
AC03	13.5	Benzene	0.25
AC04	45.4	Benzene	0.25
AC04	29.4	Benzene	0.1
AC04	10.4	Benzene	0.25
AC05	43.0	Benzene	0.25
AC05	29.0	Benzene	0.25
AC06	51.7	Benzene	0.25
AC06	48.7	Benzene	0.25
AC06	38.7	Benzene	0.25
AE01	42.5	Benzene	0.25
AE01	18.1	Benzene	0.25
AE01	8.5	Benzene	0.25
AE01	-13.5	Benzene	0.25
AE02	41.3	Benzene	0.25
AE02	7.3	Benzene	0.25
AE02	-18.7	Benzene	0.25
AE03	44.2	Benzene	0.25
AE03	4.2	Benzene	0.25
AE03	-23.8	Benzene	0.25
AE04	43.0	Benzene	0.25
AE04	-5.0	Benzene	0.25
AE04	-32.0	Benzene	0.25
AE05	41.6	Benzene	0.25
AE05	25.6	Benzene	0.25
AE05	-7.4	Benzene	0.25
AE06	45.9	Benzene	0.25
AE06	32.9	Benzene	0.25
AE06	12.9	Benzene	0.25
AE07	44.3	Benzene	0.25
AE07	29.3	Benzene	0.25
AF01	40.3	Benzene	0.25
AF01	-8.7	Benzene	0.25
AF01	-49.7	Benzene	0.25
AF02	22.2	Benzene	0.25
AF02	-20.8	Benzene	0.25
AF03	43.6	Benzene	0.25
AF03	24.6	Benzene	0.25
AF03	12.6	Benzene	0.25
AF03	0.6	Benzene	0.25
AG01	46.5	Benzene	0.25
AG01	3.5	Benzene	0.25

TABLE 1
ANALYTICAL RESULTS USED IN GROUNDWATER MODELING
MSGRP REMEDIAL INVESTIGATION REPORT
INDUSTRI-PLEX SITE, WOBURN, MASSACHUSETTS

Well ID	Sample Elevation (ft NGVD 88)	Parameter	Value Used in Modeling* (µg/L)
AG01	-12.5	Benzene	0.25
AG02	42.8	Benzene	0.25
AG02	16.8	Benzene	0.25
AG02	-22.2	Benzene	0.25
AG03	39.4	Benzene	0.25
AG03	1.4	Benzene	0.25
AG03	-24.6	Benzene	0.25
AP01	67.2	Benzene	0.25
AP01	61.2	Benzene	0.25
AP02	68.4	Benzene	0.25
AP02	63.4	Benzene	0.25
AP02	53.4	Benzene	0.25
AP03	65.7	Benzene	0.25
AP03	59.7	Benzene	0.25
B1-01	66.0	Benzene	0.5
B1-01	59.6	Benzene	0.5
B1-01	64.1	Benzene	0.5
B1-02	68.7	Benzene	0.5
B1-04	66.9	Benzene	0.5
B1-04	62.0	Benzene	0.5
B1-04	70.0	Benzene	2
B1-05	59.6	Benzene	0.5
B1-05	54.0	Benzene	0.5
B1-05	47.0	Benzene	0.5
B2-01	57.8	Benzene	0.5
B2-03	57.5	Benzene	3
B2-03	42.9	Benzene	4
B2-03	27.2	Benzene	2
B2-05	60.5	Benzene	0.5
B2-05	53.7	Benzene	0.5
B2-05	43.8	Benzene	0.5
B2-05	53.1	Benzene	0.5
B2-05	44.0	Benzene	0.5
B2-06	66.9	Benzene	0.5
B2-06	61.2	Benzene	0.5
B2-06	58.6	Benzene	0.5
B2-06	62.4	Benzene	0.5
B3-01	64.2	Benzene	3
B3-01	64.4	Benzene	5
B3-01	63.2	Benzene	4
B3-02	60.1	Benzene	0.5
B3-02	55.1	Benzene	0.5
B3-02	60.0	Benzene	0.5
B3-02	55.3	Benzene	0.5
B3-03	59.9	Benzene	0.5
B3-03	51.3	Benzene	0.5

TABLE 1
ANALYTICAL RESULTS USED IN GROUNDWATER MODELING
MSGRP REMEDIAL INVESTIGATION REPORT
INDUSTRI-PLEX SITE, WOBURN, MASSACHUSETTS

Well ID	Sample Elevation (ft NGVD 88)	Parameter	Value Used in Modeling* (µg/L)
B3-03	48.2	Benzene	0.5
B3-03	39.6	Benzene	0.5
B3-03	57.9	Benzene	0.5
B3-04	59.5	Benzene	0.5
B3-05	60.2	Benzene	0.5
B3-06	60.7	Benzene	87
B3-06	51.5	Benzene	0.5
B3-06	52.0	Benzene	8
B4-01	54.6	Benzene	0.5
B4-01	42.9	Benzene	0.5
B4-01	30.3	Benzene	0.5
B4-01	53.4	Benzene	0.5
B4-03	52.6	Benzene	0.5
B4-03	40.2	Benzene	0.5
B4-03	20.6	Benzene	0.5
B4-03	19.3	Benzene	0.5
B4-04	56.0	Benzene	0.5
B4-04	45.1	Benzene	0.5
B4-05	54.1	Benzene	0.5
B4-05	50.0	Benzene	1
B4-05	42.1	Benzene	0.5
B4-05	41.4	Benzene	0.5
B5-01	54.1	Benzene	6200
B5-01	42.8	Benzene	300
B5-01	32.8	Benzene	350
B5-01	54.5	Benzene	970
B5-02	58.0	Benzene	0.5
B5-02	51.3	Benzene	0.5
B5-02	42.5	Benzene	0.5
B5-02	52.2	Benzene	0.5
B5-02	44.4	Benzene	0.5
B5-03	61.0	Benzene	0.5
B5-03	48.6	Benzene	0.5
B5-03	36.4	Benzene	1
B5-04	57.1	Benzene	0.5
B5-05	61.3	Benzene	0.5
B5-06	56.6	Benzene	0.5
B5-06	53.6	Benzene	0.5
B5-06	51.1	Benzene	0.5
B6-01	55.6	Benzene	1
B6-01	44.7	Benzene	0.5
B6-01	34.6	Benzene	7
B6-02	55.2	Benzene	0.5
B6-02	52.3	Benzene	2
B6-02	47.2	Benzene	47
B6-03	55.0	Benzene	290

TABLE 1
ANALYTICAL RESULTS USED IN GROUNDWATER MODELING
MSGRP REMEDIAL INVESTIGATION REPORT
INDUSTRI-PLEX SITE, WOBURN, MASSACHUSETTS

Well ID	Sample Elevation (ft NGVD 88)	Parameter	Value Used in Modeling* (µg/L)
B6-03	48.5	Benzene	440
B6-03	38.6	Benzene	47
B6-03	55.4	Benzene	70
B6-03	49.4	Benzene	310
B6-03	39.4	Benzene	47
B6-04	52.6	Benzene	0.5
B6-04	44.4	Benzene	0.5
B6-05	53.9	Benzene	0.5
B6-05	42.9	Benzene	0.5
B6-05	26.8	Benzene	0.5
B7-01	51.7	Benzene	0.5
B7-01	27.5	Benzene	0.5
B7-01	0.4	Benzene	0.5
B7-01	50.8	Benzene	0.5
B7-01	-0.5	Benzene	0.5
B7-02	48.8	Benzene	0.5
B7-02	40.0	Benzene	0.5
B7-02	29.8	Benzene	0.5
B7-02	48.4	Benzene	0.5
B7-02	39.1	Benzene	0.5
B7-03	51.7	Benzene	78
B7-03	49.6	Benzene	68
B7-03	36.4	Benzene	920
B7-03	34.4	Benzene	3300
B7-03	17.0	Benzene	870
B7-03	14.6	Benzene	940
B7-04	51.8	Benzene	1
B7-04	42.3	Benzene	5
B7-04	32.3	Benzene	200
B7-05	56.0	Benzene	0.5
B7-05	19.5	Benzene	0.5
B7-05	-11.1	Benzene	0.5
B8-01	47.5	Benzene	0.5
B8-01	19.4	Benzene	3
B8-01	-7.9	Benzene	420
B8-01	48.3	Benzene	0.5
B8-01	-6.2	Benzene	3
B8-02	45.4	Benzene	0.5
B8-02	26.1	Benzene	250
B8-02	6.6	Benzene	580
B8-03	48.0	Benzene	0.5
B8-03	30.1	Benzene	33
B8-03	15.4	Benzene	630
B8-04	48.2	Benzene	0.5
B8-04	26.7	Benzene	260
B8-04	21.0	Benzene	320

TABLE 1
ANALYTICAL RESULTS USED IN GROUNDWATER MODELING
MSGRP REMEDIAL INVESTIGATION REPORT
INDUSTRI-PLEX SITE, WOBURN, MASSACHUSETTS

Well ID	Sample Elevation (ft NGVD 88)	Parameter	Value Used in Modeling* (µg/L)
B8-04	3.5	Benzene	600
B8-05	48.2	Benzene	0.5
B8-05	15.9	Benzene	37
B8-05	-16.6	Benzene	56
B8-06	52.8	Benzene	0.5
B8-06	35.3	Benzene	1
B8-06	11.5	Benzene	3
B9-01	47.4	Benzene	3
B9-01	45.3	Benzene	46
B9-01	35.1	Benzene	1600
B9-01	26.8	Benzene	1000
B9-01	22.6	Benzene	320
B9-02	47.8	Benzene	0.5
B9-02	32.2	Benzene	2700
B9-02	28.1	Benzene	2500
B9-02	4.5	Benzene	5
B9-03	45.6	Benzene	0.5
B9-03	26.1	Benzene	0.5
B9-03	5.3	Benzene	0.5
B9-04	55.0	Benzene	0.5
B9-04	46.6	Benzene	0.5
B9-04	34.0	Benzene	0.5
B9-04	54.6	Benzene	0.5
B9-05	45.0	Benzene	0.5
B9-05	30.2	Benzene	1
B9-05	15.5	Benzene	0.5
B9-05	45.5	Benzene	0.5
B9-06	46.7	Benzene	0.5
B9-06	28.6	Benzene	1
B9-06	6.0	Benzene	0.5
CA02	58.2	Benzene	0.25
CA03	61.5	Benzene	0.25
CA03	54.5	Benzene	0.25
CA03	50.5	Benzene	0.25
CA04	60.8	Benzene	0.25
CA04	47.8	Benzene	0.25
CA04	39.8	Benzene	0.25
CA05	64.3	Benzene	0.25
CA05	56.3	Benzene	0.25
CA05	41.3	Benzene	0.25
CA06	56.7	Benzene	0.25
CA06	50.7	Benzene	0.25
CA06	40.7	Benzene	0.25
CA07	60.0	Benzene	0.25
CA08	59.1	Benzene	0.25
CA09	57.2	Benzene	0.25

TABLE 1
ANALYTICAL RESULTS USED IN GROUNDWATER MODELING
MSGRP REMEDIAL INVESTIGATION REPORT
INDUSTRI-PLEX SITE, WOBURN, MASSACHUSETTS

Well ID	Sample Elevation (ft NGVD 88)	Parameter	Value Used in Modeling* (µg/L)
CA09	53.2	Benzene	0.25
CA09	40.2	Benzene	0.25
E3-01	49.1	Benzene	0.5
E3-01	22.2	Benzene	0.5
E3-01	21.4	Benzene	0.5
E3-02	43.0	Benzene	0.5
E3-02	40.3	Benzene	0.5
E3-02	26.6	Benzene	0.5
E3-02	1.5	Benzene	0.5
E3-03	56.0	Benzene	0.5
E3-03	43.9	Benzene	0.5
E3-03	41.3	Benzene	0.5
E3-03	30.1	Benzene	0.5
E4-01	48.7	Benzene	0.5
E4-01	38.8	Benzene	0.5
E4-01	34.9	Benzene	0.5
E4-01	47.3	Benzene	0.5
E4-02	53.7	Benzene	0.5
E4-02	40.1	Benzene	0.5
E4-02	28.2	Benzene	0.5
E4-02	55.5	Benzene	0.5
E4-03	57.1	Benzene	0.5
E4-03	39.3	Benzene	0.5
E4-03	56.2	Benzene	0.5
E4-03	39.9	Benzene	0.5
E4-04	47.3	Benzene	0.5
E4-04	29.9	Benzene	0.5
E4-04	12.1	Benzene	0.5
H1-01	47.5	Benzene	0.5
H1-01	42.5	Benzene	0.5
H1-01	32.9	Benzene	0.5
H1-02	43.4	Benzene	0.5
H1-02	35.7	Benzene	0.5
H1-03	46.9	Benzene	0.5
H1-03	38.7	Benzene	0.5
H1-03	30.0	Benzene	0.5
H1-03	23.5	Benzene	0.5
H1-03	15.5	Benzene	8
H1-03	24.1	Benzene	2
H1-03	22.5	Benzene	2
H1-04	49.3	Benzene	0.5
H1-04	39.4	Benzene	0.5
H1-04	30.3	Benzene	0.5
H1-04	25.0	Benzene	0.5
H1-04	20.9	Benzene	0.5
H1-04	10.5	Benzene	0.5

TABLE 1
ANALYTICAL RESULTS USED IN GROUNDWATER MODELING
MSGRP REMEDIAL INVESTIGATION REPORT
INDUSTRI-PLEX SITE, WOBURN, MASSACHUSETTS

Well ID	Sample Elevation (ft NGVD 88)	Parameter	Value Used in Modeling* (µg/L)
H1-04	30.0	Benzene	0.5
H1-04	24.6	Benzene	0.5
H1-04	11.6	Benzene	0.5
H1-05	49.5	Benzene	0.5
H1-05	40.1	Benzene	0.5
H1-06	49.4	Benzene	0.5
H1-06	41.3	Benzene	0.5
H1-07	50.6	Benzene	0.5
H1-07	42.4	Benzene	0.5
H1-07	33.3	Benzene	0.5
H2-01	46.1	Benzene	0.5
H2-01	40.5	Benzene	0.5
H2-02	52.1	Benzene	0.5
H2-02	40.1	Benzene	0.5
H2-02	31.1	Benzene	0.5
H2-02	16.0	Benzene	0.5
H2-02	39.6	Benzene	0.5
H2-02	30.7	Benzene	0.5
H2-02	15.3	Benzene	0.5
H2-03	46.3	Benzene	0.5
H2-03	38.4	Benzene	0.5
H2-03	29.8	Benzene	0.5
H2-03	19.8	Benzene	3
H2-03	7.7	Benzene	2
H2-03	-1.1	Benzene	0.5
H2-04	48.9	Benzene	0.5
H2-04	38.9	Benzene	0.5
H2-04	30.6	Benzene	0.5
H2-04	19.7	Benzene	0.5
H2-04	13.0	Benzene	0.5
H2-04	2.7	Benzene	0.5
H2-04	-0.8	Benzene	0.5
H2-04	-10.9	Benzene	0.5
H2-04	-11.5	Benzene	0.5
H2-05	48.1	Benzene	0.5
H2-05	41.1	Benzene	0.5
H2-05	29.1	Benzene	0.5
H2-05	19.1	Benzene	0.5
H2-05	9.1	Benzene	0.5
H2-05	0.4	Benzene	0.5
H2-05	0.0	Benzene	0.5
H2-06	45.4	Benzene	0.5
H2-06	36.2	Benzene	0.5
H2-06	27.4	Benzene	0.5
H2-06	16.5	Benzene	0.5
H2-06	10.2	Benzene	0.5

TABLE 1
ANALYTICAL RESULTS USED IN GROUNDWATER MODELING
MSGRP REMEDIAL INVESTIGATION REPORT
INDUSTRI-PLEX SITE, WOBURN, MASSACHUSETTS

Well ID	Sample Elevation (ft NGVD 88)	Parameter	Value Used in Modeling* (µg/L)
H2-06	7.2	Benzene	0.5
H2-06	-3.4	Benzene	0.5
L2-01	45.7	Benzene	0.5
L2-01	35.2	Benzene	0.5
L2-01	26.1	Benzene	0.5
L2-01	15.7	Benzene	0.5
L2-01	6.6	Benzene	0.5
L2-01	-5.0	Benzene	0.5
L2-01	-15.6	Benzene	0.5
L2-02	47.2	Benzene	0.5
L2-02	36.6	Benzene	0.5
L2-02	27.2	Benzene	0.5
L2-02	16.5	Benzene	0.5
L2-02	8.8	Benzene	0.5
L2-03	45.3	Benzene	0.5
L2-03	35.3	Benzene	0.5
L2-03	27.7	Benzene	0.5
L2-03	21.9	Benzene	0.5
L2-03	46.6	Benzene	0.5
L2-03	46.2	Benzene	0.5
L2-04	44.5	Benzene	0.5
L2-04	33.4	Benzene	0.5
L2-04	25.0	Benzene	0.5
L2-05	46.9	Benzene	0.5
L2-05	35.4	Benzene	0.5
L2-05	25.8	Benzene	0.5
L2-05	45.7	Benzene	0.5
L2-05	25.9	Benzene	0.5
MW04	50.3	Benzene	0.25
MW04	41.3	Benzene	32
MW04	28.3	Benzene	530
P1-01	45.6	Benzene	0.5
P1-01	42.4	Benzene	0.5
P1-01	36.3	Benzene	0.5
P1-01	31.4	Benzene	0.5
P1-01	26.8	Benzene	0.5
P1-01	24.0	Benzene	0.5
P1-01	13.5	Benzene	0.5
P1-01	3.3	Benzene	0.5
P1-01	-5.2	Benzene	0.5
P1-01	-15.7	Benzene	0.5
P1-01	-26.7	Benzene	0.5
P1-02	43.7	Benzene	0.5
P1-02	24.2	Benzene	0.5
P1-02	13.5	Benzene	0.5
P1-02	5.7	Benzene	0.5

TABLE 1
ANALYTICAL RESULTS USED IN GROUNDWATER MODELING
MSGRP REMEDIAL INVESTIGATION REPORT
INDUSTRI-PLEX SITE, WOBURN, MASSACHUSETTS

Well ID	Sample Elevation (ft NGVD 88)	Parameter	Value Used in Modeling* (µg/L)
P1-02	-4.8	Benzene	0.5
P1-02	-14.8	Benzene	0.5
P1-02	-22.3	Benzene	0.5
P1-03	46.8	Benzene	3
P1-03	40.2	Benzene	2
P1-03	29.2	Benzene	0.5
P1-03	18.7	Benzene	0.5
P1-03	9.8	Benzene	0.5
P1-03	-0.3	Benzene	0.5
P1-04	54.8	Benzene	0.5
P1-04	44.8	Benzene	0.5
P1-04	35.9	Benzene	0.5
P1-04	23.8	Benzene	0.5
P1-05	39.8	Benzene	0.5
P1-05	30.7	Benzene	0.5
P1-05	24.7	Benzene	0.5
P1-05	12.1	Benzene	0.5
P1-05	-1.3	Benzene	0.5
P1-06	48.1	Benzene	0.5
P1-06	40.6	Benzene	0.5
P1-06	31.1	Benzene	0.5
P1-06	21.1	Benzene	0.5
P1-07	49.8	Benzene	0.5
P1-07	41.8	Benzene	0.5
P1-07	33.3	Benzene	0.5
RX-1	57.0	Benzene	130
RX-1	42.0	Benzene	3800
RX-10	56.2	Benzene	12000
RX-10	46.2	Benzene	13000
RX-11	55.5	Benzene	13
RX-11	39.5	Benzene	400
RX-12	56.9	Benzene	0.52
RX-12	40.9	Benzene	0.41
RX-13	57.0	Benzene	1.7
RX-13	44.0	Benzene	2.7
RX-14	57.7	Benzene	180
RX-14	42.7	Benzene	17
RX-15	56.4	Benzene	2900
RX-15	42.4	Benzene	1.4
RX-16	58.2	Benzene	2400
RX-16	44.2	Benzene	1200
RX-17	56.0	Benzene	69000
RX-17	38.0	Benzene	37
RX-18	66.5	Benzene	4000
RX-18	60.0	Benzene	4
RX-18	49.5	Benzene	170

TABLE 1
ANALYTICAL RESULTS USED IN GROUNDWATER MODELING
MSGRP REMEDIAL INVESTIGATION REPORT
INDUSTRI-PLEX SITE, WOBURN, MASSACHUSETTS

Well ID	Sample Elevation (ft NGVD 88)	Parameter	Value Used in Modeling* (µg/L)
RX-19	71.0	Benzene	3.7
RX-19	64.5	Benzene	940
RX-19	59.5	Benzene	51
RX-2	57.0	Benzene	110
RX-2	39.0	Benzene	3000
RX-3	57.0	Benzene	370
RX-3	48.0	Benzene	1100
RX-4	57.1	Benzene	430
RX-4	43.1	Benzene	6000
RX-5	57.1	Benzene	790
RX-5	43.1	Benzene	13000
RX-6	57.1	Benzene	21000
RX-6	43.1	Benzene	14000
RX-7	54.8	Benzene	2500
RX-7	41.2	Benzene	4300
RX-8	55.5	Benzene	17000
RX-8	39.5	Benzene	15000
RX-9	57.2	Benzene	220
RX-9	39.2	Benzene	2600
W5-01	50.2	Benzene	0.5
W5-01	42.2	Benzene	0.5
W5-01	30.0	Benzene	0.5
W5-01	12.0	Benzene	5
W5-02	46.4	Benzene	0.5
W5-02	28.1	Benzene	1
W5-02	14.6	Benzene	4
W5-02	29.3	Benzene	0.5
W5-03	48.3	Benzene	0.5
W5-03	32.5	Benzene	0.5
W5-03	21.7	Benzene	5
W5-03	7.6	Benzene	890
W5-03	-2.2	Benzene	520
W5-03	47.2	Benzene	0.5
W5-03	22.4	Benzene	5
W5-04	44.2	Benzene	27
W5-04	30.0	Benzene	110
W5-04	3.3	Benzene	340
W5-05	45.9	Benzene	0.5
W5-05	24.1	Benzene	1200
W5-05	21.5	Benzene	1500
W5-05	7.8	Benzene	3800
W5-05	25.0	Benzene	1900
W5-05	6.2	Benzene	3600
W5-06	46.8	Benzene	0.5
W5-06	21.2	Benzene	2300
W5-06	17.7	Benzene	4500

TABLE 1
ANALYTICAL RESULTS USED IN GROUNDWATER MODELING
MSGRP REMEDIAL INVESTIGATION REPORT
INDUSTRI-PLEX SITE, WOBURN, MASSACHUSETTS

Well ID	Sample Elevation (ft NGVD 88)	Parameter	Value Used in Modeling* (µg/L)
W5-06	-2.0	Benzene	300
W5-07	49.4	Benzene	0.5
W5-07	28.2	Benzene	0.5
W5-07	5.3	Benzene	15
W5-08	56.7	Benzene	4
W5-08	52.4	Benzene	0.5
W5-08	39.4	Benzene	0.5
W5-08	20.2	Benzene	0.5
AA01	66.1	TCE	2
AA01	50.1	TCE	5.4
AA02	66.0	TCE	0.31
AA03	68.3	TCE	0.25
AA05	62.8	TCE	0.25
AA06	68.1	TCE	0.25
AA06	60.1	TCE	0.25
AA06	53.1	TCE	0.25
AA07	68.6	TCE	0.25
AA07	60.6	TCE	5.3
AA07	41.6	TCE	21
AA08	66.1	TCE	0.25
AA09	69.8	TCE	1.1
AC01	27.7	TCE	0.25
AC01	45.7	TCE	2.9
AC02	20.0	TCE	0.15
AC02	42.0	TCE	0.16
AC02	37.0	TCE	0.31
AC03	13.5	TCE	0.17
AC03	42.5	TCE	0.6
AC03	24.5	TCE	0.86
AC04	45.4	TCE	0.25
AC04	29.4	TCE	0.25
AC04	10.4	TCE	0.15
AC05	43.0	TCE	0.2
AC05	29.0	TCE	0.31
AC06	51.7	TCE	0.25
AC06	48.7	TCE	0.25
AC06	38.7	TCE	0.25
AE01	42.5	TCE	0.25
AE01	18.1	TCE	0.25
AE01	8.5	TCE	0.25
AE01	-13.5	TCE	6.9
AE02	41.3	TCE	0.25
AE02	7.3	TCE	20
AE02	-18.7	TCE	53
AE03	44.2	TCE	1
AE03	-23.8	TCE	8.3

TABLE 1
ANALYTICAL RESULTS USED IN GROUNDWATER MODELING
MSGRP REMEDIAL INVESTIGATION REPORT
INDUSTRI-PLEX SITE, WOBURN, MASSACHUSETTS

Well ID	Sample Elevation (ft NGVD 88)	Parameter	Value Used in Modeling* (µg/L)
AE03	4.2	TCE	110
AE04	43.0	TCE	0.25
AE04	-5.0	TCE	2.3
AE04	-32.0	TCE	41
AE05	41.6	TCE	0.25
AE05	-7.4	TCE	2.1
AE05	25.6	TCE	14
AE06	45.9	TCE	0.25
AE06	32.9	TCE	15
AE06	12.9	TCE	25
AE07	44.3	TCE	0.25
AE07	29.3	TCE	0.25
AF01	40.3	TCE	0.25
AF01	-8.7	TCE	0.25
AF01	-49.7	TCE	3.5
AF02	-20.8	TCE	0.25
AF02	22.2	TCE	0.46
AF03	43.6	TCE	0.25
AF03	24.6	TCE	0.25
AF03	12.6	TCE	0.25
AF03	0.6	TCE	0.25
AG01	46.5	TCE	0.25
AG01	3.5	TCE	0.25
AG01	-12.5	TCE	0.25
AG02	42.8	TCE	0.25
AG02	16.8	TCE	0.25
AG02	-22.2	TCE	0.25
AG03	39.4	TCE	0.25
AG03	1.4	TCE	0.25
AG03	-24.6	TCE	0.2
AP01	67.2	TCE	0.25
AP01	61.2	TCE	0.25
AP02	68.4	TCE	0.25
AP02	63.4	TCE	0.25
AP02	53.4	TCE	0.25
AP03	65.7	TCE	0.25
AP03	59.7	TCE	0.25
B1-04	70.0	TCE	0.5
B2-05	53.1	TCE	0.5
B2-05	44.0	TCE	0.5
B2-06	62.4	TCE	0.5
B3-02	60.0	TCE	0.5
B3-02	55.3	TCE	0.5
B3-03	39.6	TCE	0.5
B4-03	19.3	TCE	0.5
B4-04	56.0	TCE	0.5

TABLE 1
ANALYTICAL RESULTS USED IN GROUNDWATER MODELING
MSGRP REMEDIAL INVESTIGATION REPORT
INDUSTRI-PLEX SITE, WOBURN, MASSACHUSETTS

Well ID	Sample Elevation (ft NGVD 88)	Parameter	Value Used in Modeling* (µg/L)
B4-04	45.1	TCE	0.5
B4-05	41.4	TCE	0.5
B5-01	54.5	TCE	0.5
B5-02	52.2	TCE	0.5
B5-02	44.4	TCE	0.5
B5-03	36.4	TCE	1
B6-03	55.4	TCE	0.5
B6-03	49.4	TCE	0.5
B6-03	39.4	TCE	0.5
B7-01	50.8	TCE	0.5
B7-01	-0.5	TCE	0.5
B7-02	48.4	TCE	0.5
B7-02	39.1	TCE	0.5
B7-03	49.6	TCE	0.5
B7-03	14.6	TCE	0.5
B7-03	34.4	TCE	1.5
B8-01	48.3	TCE	0.5
B8-01	-6.2	TCE	19
B8-04	26.7	TCE	0.5
B9-01	45.3	TCE	0.5
B9-01	22.6	TCE	0.5
B9-02	28.1	TCE	1.5
B9-04	54.6	TCE	0.5
B9-05	45.5	TCE	0.5
CA02	58.2	TCE	0.25
CA03	61.5	TCE	0.25
CA03	54.5	TCE	0.25
CA03	50.5	TCE	0.25
CA04	60.8	TCE	0.25
CA04	47.8	TCE	0.25
CA04	39.8	TCE	0.25
CA05	64.3	TCE	0.25
CA05	56.3	TCE	0.25
CA05	41.3	TCE	0.25
CA06	56.7	TCE	0.25
CA06	50.7	TCE	0.25
CA06	40.7	TCE	0.25
CA07	60.0	TCE	0.25
CA08	59.1	TCE	0.25
CA09	57.2	TCE	0.25
CA09	53.2	TCE	0.25
CA09	40.2	TCE	0.25
E3-02	1.5	TCE	17
E4-02	55.5	TCE	0.5
E4-03	56.2	TCE	0.5
E4-03	39.9	TCE	0.5

TABLE 1
ANALYTICAL RESULTS USED IN GROUNDWATER MODELING
MSGRP REMEDIAL INVESTIGATION REPORT
INDUSTRI-PLEX SITE, WOBURN, MASSACHUSETTS

Well ID	Sample Elevation (ft NGVD 88)	Parameter	Value Used in Modeling* (µg/L)
H1-04	20.9	TCE	0.5
H1-04	11.6	TCE	0.5
H2-02	39.6	TCE	0.5
H2-02	15.3	TCE	0.5
H2-04	-0.8	TCE	2
H2-04	-11.5	TCE	1
L2-03	35.3	TCE	0.5
L2-03	46.2	TCE	0.5
L2-05	45.7	TCE	0.5
L2-05	25.9	TCE	0.5
MW04	50.3	TCE	0.25
MW04	41.3	TCE	0.25
MW04	28.3	TCE	1.25
P1-01	45.6	TCE	0.5
P1-01	42.4	TCE	0.5
P1-01	36.3	TCE	0.5
P1-01	31.4	TCE	0.5
P1-01	26.8	TCE	0.5
P1-01	24.0	TCE	0.5
P1-01	13.5	TCE	0.5
P1-01	3.3	TCE	0.5
P1-01	-5.2	TCE	0.5
P1-01	-15.7	TCE	0.5
P1-01	-26.7	TCE	0.5
P1-02	43.7	TCE	0.5
P1-02	24.2	TCE	0.5
P1-02	13.5	TCE	0.5
P1-02	5.7	TCE	0.5
P1-02	-4.8	TCE	0.5
P1-02	-14.8	TCE	0.5
P1-02	-22.3	TCE	0.5
P1-03	46.8	TCE	0.5
P1-03	40.2	TCE	0.5
P1-03	29.2	TCE	0.5
P1-03	18.7	TCE	0.5
P1-03	9.8	TCE	0.5
P1-03	-0.3	TCE	0.5
P1-04	54.8	TCE	0.5
P1-04	44.8	TCE	0.5
P1-04	35.9	TCE	0.5
P1-04	23.8	TCE	0.5
P1-05	39.8	TCE	0.5
P1-05	30.7	TCE	0.5
P1-05	24.7	TCE	0.5
P1-05	12.1	TCE	0.5
P1-05	-1.3	TCE	0.5

TABLE 1
ANALYTICAL RESULTS USED IN GROUNDWATER MODELING
MSGRP REMEDIAL INVESTIGATION REPORT
INDUSTRI-PLEX SITE, WOBURN, MASSACHUSETTS

Well ID	Sample Elevation (ft NGVD 88)	Parameter	Value Used in Modeling* (µg/L)
P1-06	48.1	TCE	0.5
P1-06	40.6	TCE	0.5
P1-06	31.1	TCE	0.5
P1-06	21.1	TCE	0.5
P1-07	49.8	TCE	0.5
P1-07	41.8	TCE	0.5
P1-07	33.3	TCE	0.5
W5-03	-2.2	TCE	77
W5-03	47.2	TCE	0.5
W5-03	22.4	TCE	6
W5-08	52.4	TCE	0.5
A01	53.6	Toluene	1.6
A01	44.6	Toluene	0
A02	61.2	Toluene	0
A03	65.1	Toluene	0
A03	55.1	Toluene	0
A04	59.2	Toluene	0
A04	49.5	Toluene	0
A04	41.7	Toluene	0
A05	65.3	Toluene	0
A06	62.2	Toluene	0
A06	52.2	Toluene	0
A07	64.2	Toluene	0
A07	54.2	Toluene	0
A22	64.4	Toluene	0
A22	59.4	Toluene	0
A23	64.3	Toluene	2
A23	57.3	Toluene	1
AA01	66.1	Toluene	0.25
AA01	50.1	Toluene	0.25
AA02	66.0	Toluene	0.55
AA03	68.3	Toluene	0.25
AA05	62.8	Toluene	0.25
AA06	68.1	Toluene	0.25
AA06	60.1	Toluene	0.41
AA06	53.1	Toluene	0.25
AA07	68.6	Toluene	0.25
AA07	60.6	Toluene	0.25
AA07	41.6	Toluene	0.25
AA08	66.1	Toluene	0.25
AA09	69.8	Toluene	0.25
AC01	45.7	Toluene	0.25
AC01	27.7	Toluene	0.25
AC02	42.0	Toluene	0.25
AC02	37.0	Toluene	0.25
AC02	20.0	Toluene	0.25

TABLE 1
ANALYTICAL RESULTS USED IN GROUNDWATER MODELING
MSGRP REMEDIAL INVESTIGATION REPORT
INDUSTRI-PLEX SITE, WOBURN, MASSACHUSETTS

Well ID	Sample Elevation (ft NGVD 88)	Parameter	Value Used in Modeling* (µg/L)
AC03	42.5	Toluene	0.25
AC03	24.5	Toluene	0.25
AC03	13.5	Toluene	0.25
AC04	45.4	Toluene	0.25
AC04	29.4	Toluene	0.25
AC04	10.4	Toluene	0.25
AC05	43.0	Toluene	0.25
AC05	29.0	Toluene	0.25
AC06	51.7	Toluene	0.25
AC06	48.7	Toluene	0.25
AC06	38.7	Toluene	0.25
AE01	42.5	Toluene	0.25
AE01	18.1	Toluene	0.21
AE01	8.5	Toluene	0.25
AE01	-13.5	Toluene	0.25
AE02	41.3	Toluene	0.27
AE02	7.3	Toluene	0.25
AE02	-18.7	Toluene	0.25
AE03	44.2	Toluene	0.25
AE03	4.2	Toluene	0.25
AE03	-23.8	Toluene	0.25
AE04	43.0	Toluene	0.25
AE04	-5.0	Toluene	0.25
AE04	-32.0	Toluene	0.25
AE05	41.6	Toluene	0.25
AE05	25.6	Toluene	0.25
AE05	-7.4	Toluene	0.25
AE06	45.9	Toluene	0.25
AE06	32.9	Toluene	0.25
AE06	12.9	Toluene	0.25
AE07	44.3	Toluene	0.25
AE07	29.3	Toluene	0.25
AF01	40.3	Toluene	0.25
AF01	-8.7	Toluene	1.6
AF01	-49.7	Toluene	0.25
AF02	40.2	Toluene	5
AF02	22.2	Toluene	0.25
AF02	-20.8	Toluene	0.25
AF03	43.6	Toluene	0.25
AF03	24.6	Toluene	0.25
AF03	12.6	Toluene	0.25
AF03	0.6	Toluene	0.25
AG01	46.5	Toluene	0.25
AG01	3.5	Toluene	0.49
AG01	-12.5	Toluene	0.25
AG02	42.8	Toluene	0.31

TABLE 1
ANALYTICAL RESULTS USED IN GROUNDWATER MODELING
MSGRP REMEDIAL INVESTIGATION REPORT
INDUSTRI-PLEX SITE, WOBURN, MASSACHUSETTS

Well ID	Sample Elevation (ft NGVD 88)	Parameter	Value Used in Modeling* (µg/L)
AG02	16.8	Toluene	0.25
AG02	-22.2	Toluene	0.25
AG03	39.4	Toluene	0.25
AG03	1.4	Toluene	0.25
AG03	-24.6	Toluene	0.25
AP01	67.2	Toluene	0.25
AP01	61.2	Toluene	0.275
AP02	68.4	Toluene	0.25
AP02	63.4	Toluene	1.5
AP02	53.4	Toluene	0.37
AP03	65.7	Toluene	0.25
AP03	59.7	Toluene	0.385
B1-01	66.0	Toluene	0.5
B1-01	59.6	Toluene	0.5
B1-01	64.1	Toluene	0.5
B1-02	68.7	Toluene	0.5
B1-04	71.8	Toluene	2.5
B1-04	66.9	Toluene	0.5
B1-04	62.0	Toluene	3
B1-04	70.0	Toluene	2
B1-05	59.6	Toluene	0.5
B1-05	54.0	Toluene	0.5
B1-05	47.0	Toluene	0.5
B2-01	57.8	Toluene	0.5
B2-03	57.5	Toluene	0.5
B2-03	42.9	Toluene	0.5
B2-03	27.2	Toluene	0.5
B2-05	60.5	Toluene	0.5
B2-05	53.7	Toluene	0.5
B2-05	43.8	Toluene	0.5
B2-05	53.1	Toluene	0.5
B2-05	44.0	Toluene	0.5
B2-06	66.9	Toluene	0.5
B2-06	61.2	Toluene	0.5
B2-06	58.6	Toluene	0.5
B2-06	62.4	Toluene	0.5
B3-01	64.2	Toluene	0.5
B3-01	64.4	Toluene	0.5
B3-01	63.2	Toluene	0.5
B3-02	60.1	Toluene	0.5
B3-02	55.1	Toluene	0.5
B3-02	60.0	Toluene	0.5
B3-02	55.3	Toluene	0.5
B3-03	59.9	Toluene	0.5
B3-03	51.3	Toluene	0.5
B3-03	48.2	Toluene	0.5

TABLE 1
ANALYTICAL RESULTS USED IN GROUNDWATER MODELING
MSGRP REMEDIAL INVESTIGATION REPORT
INDUSTRI-PLEX SITE, WOBURN, MASSACHUSETTS

Well ID	Sample Elevation (ft NGVD 88)	Parameter	Value Used in Modeling* (µg/L)
B3-03	39.6	Toluene	200
B3-03	57.9	Toluene	0.5
B3-04	59.5	Toluene	0.5
B3-05	60.2	Toluene	0.5
B3-06	60.7	Toluene	0.5
B3-06	51.5	Toluene	7
B3-06	52.0	Toluene	0.5
B4-01	54.6	Toluene	0.5
B4-01	42.9	Toluene	0.5
B4-01	30.3	Toluene	0.5
B4-01	53.4	Toluene	0.5
B4-03	52.6	Toluene	0.5
B4-03	40.2	Toluene	0.5
B4-03	20.6	Toluene	0.5
B4-03	19.3	Toluene	0.5
B4-04	56.0	Toluene	0.5
B4-04	45.1	Toluene	0.5
B4-05	54.1	Toluene	0.5
B4-05	50.0	Toluene	0.5
B4-05	42.1	Toluene	0.5
B4-05	41.4	Toluene	0.5
B5-01	54.1	Toluene	2.5
B5-01	42.8	Toluene	0.5
B5-01	32.8	Toluene	0.5
B5-01	54.5	Toluene	0.5
B5-02	58.0	Toluene	1
B5-02	51.3	Toluene	0.5
B5-02	42.5	Toluene	2
B5-02	52.2	Toluene	2
B5-02	44.4	Toluene	0.5
B5-03	61.0	Toluene	0.5
B5-03	48.6	Toluene	4
B5-03	35.9	Toluene	3600
B5-03	36.4	Toluene	3500
B5-04	57.1	Toluene	0.5
B5-05	61.3	Toluene	0.5
B5-06	56.6	Toluene	0.5
B5-06	53.6	Toluene	0.5
B5-06	51.1	Toluene	0.5
B6-01	55.6	Toluene	0.5
B6-01	44.7	Toluene	0.5
B6-01	34.6	Toluene	0.5
B6-02	55.2	Toluene	0.5
B6-02	52.3	Toluene	0.5
B6-02	47.2	Toluene	0.5
B6-03	55.0	Toluene	100

TABLE 1
ANALYTICAL RESULTS USED IN GROUNDWATER MODELING
MSGRP REMEDIAL INVESTIGATION REPORT
INDUSTRI-PLEX SITE, WOBURN, MASSACHUSETTS

Well ID	Sample Elevation (ft NGVD 88)	Parameter	Value Used in Modeling* (µg/L)
B6-03	48.5	Toluene	230
B6-03	38.6	Toluene	11
B6-03	55.4	Toluene	7
B6-03	49.4	Toluene	160
B6-03	39.4	Toluene	12
B6-04	52.6	Toluene	0.5
B6-04	49.1	Toluene	2.5
B6-04	44.4	Toluene	0.5
B6-05	53.9	Toluene	0.5
B6-05	42.9	Toluene	0.5
B6-05	26.8	Toluene	0.5
B7-01	51.7	Toluene	0.5
B7-01	27.5	Toluene	0.5
B7-01	0.4	Toluene	0.5
B7-01	50.8	Toluene	0.5
B7-01	-0.5	Toluene	0.5
B7-02	48.8	Toluene	0.5
B7-02	40.0	Toluene	0.5
B7-02	29.8	Toluene	0.5
B7-02	48.4	Toluene	0.5
B7-02	39.1	Toluene	0.5
B7-03	51.7	Toluene	0.5
B7-03	49.6	Toluene	0.5
B7-03	36.4	Toluene	0.5
B7-03	34.4	Toluene	1.5
B7-03	17.0	Toluene	150
B7-03	14.6	Toluene	8
B7-04	51.8	Toluene	0.5
B7-04	42.3	Toluene	0.5
B7-04	32.3	Toluene	5
B7-05	56.0	Toluene	0.5
B7-05	19.5	Toluene	0.5
B7-05	-11.1	Toluene	0.5
B8-01	47.5	Toluene	0.5
B8-01	19.4	Toluene	0.5
B8-01	-7.9	Toluene	3
B8-01	48.3	Toluene	0.5
B8-01	-6.2	Toluene	0.5
B8-02	45.4	Toluene	0.5
B8-02	26.1	Toluene	0.5
B8-02	6.6	Toluene	42
B8-03	48.0	Toluene	0.5
B8-03	30.1	Toluene	0.5
B8-03	15.4	Toluene	610
B8-04	48.2	Toluene	0.5
B8-04	26.7	Toluene	680

TABLE 1
ANALYTICAL RESULTS USED IN GROUNDWATER MODELING
MSGRP REMEDIAL INVESTIGATION REPORT
INDUSTRI-PLEX SITE, WOBURN, MASSACHUSETTS

Well ID	Sample Elevation (ft NGVD 88)	Parameter	Value Used in Modeling* (µg/L)
B8-04	21.0	Toluene	760
B8-04	3.5	Toluene	1200
B8-05	48.2	Toluene	0.5
B8-05	15.9	Toluene	0.5
B8-05	-16.6	Toluene	0.5
B8-06	52.8	Toluene	0.5
B8-06	35.3	Toluene	0.5
B8-06	11.5	Toluene	0.5
B9-01	47.4	Toluene	0.5
B9-01	45.3	Toluene	0.5
B9-01	35.1	Toluene	2
B9-01	26.8	Toluene	4
B9-01	22.6	Toluene	3
B9-02	47.8	Toluene	0.5
B9-02	32.2	Toluene	1
B9-02	28.1	Toluene	1.5
B9-02	4.5	Toluene	0.5
B9-03	45.6	Toluene	0.5
B9-03	26.1	Toluene	0.5
B9-03	5.3	Toluene	0.5
B9-04	55.0	Toluene	0.5
B9-04	46.6	Toluene	0.5
B9-04	34.0	Toluene	0.5
B9-04	54.6	Toluene	0.5
B9-05	45.0	Toluene	0.5
B9-05	30.2	Toluene	0.5
B9-05	15.5	Toluene	0.5
B9-05	45.5	Toluene	0.5
B9-06	46.7	Toluene	0.5
B9-06	28.6	Toluene	0.5
B9-06	6.0	Toluene	0.5
CA02	58.2	Toluene	0.45
CA03	61.5	Toluene	0.25
CA03	54.5	Toluene	1.25
CA03	50.5	Toluene	0.34
CA04	60.8	Toluene	0.25
CA04	47.8	Toluene	0.25
CA04	39.8	Toluene	0.25
CA05	64.3	Toluene	0.25
CA05	56.3	Toluene	0.95
CA05	41.3	Toluene	0.405
CA06	56.7	Toluene	1.6
CA06	50.7	Toluene	0.25
CA06	40.7	Toluene	0.25
CA07	60.0	Toluene	0.25
CA08	59.1	Toluene	0.25

TABLE 1
ANALYTICAL RESULTS USED IN GROUNDWATER MODELING
MSGRP REMEDIAL INVESTIGATION REPORT
INDUSTRI-PLEX SITE, WOBURN, MASSACHUSETTS

Well ID	Sample Elevation (ft NGVD 88)	Parameter	Value Used in Modeling* (µg/L)
CA09	57.2	Toluene	0.25
CA09	53.2	Toluene	3.65
CA09	40.2	Toluene	2.65
E3-01	49.1	Toluene	0.5
E3-01	22.2	Toluene	0.5
E3-01	21.4	Toluene	0.5
E3-02	43.0	Toluene	0.5
E3-02	40.3	Toluene	0.5
E3-02	26.6	Toluene	0.5
E3-02	1.5	Toluene	0.5
E3-03	56.0	Toluene	0.5
E3-03	43.9	Toluene	0.5
E3-03	41.3	Toluene	0.5
E3-03	30.1	Toluene	0.5
E4-01	48.7	Toluene	0.5
E4-01	38.8	Toluene	0.5
E4-01	34.9	Toluene	0.5
E4-01	47.3	Toluene	0.5
E4-02	53.7	Toluene	160
E4-02	40.1	Toluene	0.5
E4-02	28.2	Toluene	0.5
E4-02	55.5	Toluene	0.5
E4-03	57.1	Toluene	15
E4-03	46.1	Toluene	5
E4-03	39.3	Toluene	0.5
E4-03	56.2	Toluene	5
E4-03	39.9	Toluene	0.5
E4-04	47.3	Toluene	0.5
E4-04	29.9	Toluene	0.5
E4-04	12.1	Toluene	0.5
H1-01	47.5	Toluene	0.5
H1-01	42.5	Toluene	0.5
H1-01	32.9	Toluene	0.5
H1-02	43.4	Toluene	0.5
H1-02	35.7	Toluene	0.5
H1-03	46.9	Toluene	0.5
H1-03	38.7	Toluene	0.5
H1-03	30.0	Toluene	0.5
H1-03	23.5	Toluene	0.5
H1-03	15.5	Toluene	0.5
H1-03	24.1	Toluene	0.5
H1-03	22.5	Toluene	0.5
H1-04	49.3	Toluene	0.5
H1-04	39.4	Toluene	0.5
H1-04	30.3	Toluene	0.5
H1-04	25.0	Toluene	0.5

TABLE 1
ANALYTICAL RESULTS USED IN GROUNDWATER MODELING
MSGRP REMEDIAL INVESTIGATION REPORT
INDUSTRI-PLEX SITE, WOBURN, MASSACHUSETTS

Well ID	Sample Elevation (ft NGVD 88)	Parameter	Value Used in Modeling* (µg/L)
H1-04	20.9	Toluene	0.5
H1-04	10.5	Toluene	0.5
H1-04	30.0	Toluene	0.5
H1-04	24.6	Toluene	0.5
H1-04	11.6	Toluene	0.5
H1-05	49.5	Toluene	0.5
H1-05	40.1	Toluene	0.5
H1-06	49.4	Toluene	0.5
H1-06	41.3	Toluene	0.5
H1-07	50.6	Toluene	0.5
H1-07	42.4	Toluene	0.5
H1-07	33.3	Toluene	0.5
H2-01	46.1	Toluene	0.5
H2-01	40.5	Toluene	0.5
H2-02	52.1	Toluene	0.5
H2-02	40.1	Toluene	0.5
H2-02	31.1	Toluene	0.5
H2-02	16.0	Toluene	0.5
H2-02	39.6	Toluene	0.5
H2-02	30.7	Toluene	0.5
H2-02	15.3	Toluene	0.5
H2-03	46.3	Toluene	0.5
H2-03	38.4	Toluene	0.5
H2-03	29.8	Toluene	0.5
H2-03	19.8	Toluene	0.5
H2-03	7.7	Toluene	0.5
H2-03	-1.1	Toluene	0.5
H2-04	48.9	Toluene	0.5
H2-04	38.9	Toluene	0.5
H2-04	30.6	Toluene	0.5
H2-04	19.7	Toluene	0.5
H2-04	13.0	Toluene	0.5
H2-04	2.7	Toluene	0.5
H2-04	-0.8	Toluene	0.5
H2-04	-10.9	Toluene	0.5
H2-04	-11.5	Toluene	0.5
H2-05	48.1	Toluene	0.5
H2-05	41.1	Toluene	0.5
H2-05	29.1	Toluene	0.5
H2-05	19.1	Toluene	0.5
H2-05	9.1	Toluene	0.5
H2-05	0.4	Toluene	0.5
H2-05	0.0	Toluene	0.5
H2-06	45.4	Toluene	0.5
H2-06	36.2	Toluene	0.5
H2-06	27.4	Toluene	0.5

TABLE 1
ANALYTICAL RESULTS USED IN GROUNDWATER MODELING
MSGRP REMEDIAL INVESTIGATION REPORT
INDUSTRI-PLEX SITE, WOBURN, MASSACHUSETTS

Well ID	Sample Elevation (ft NGVD 88)	Parameter	Value Used in Modeling* (µg/L)
H2-06	16.5	Toluene	0.5
H2-06	10.2	Toluene	0.5
H2-06	7.2	Toluene	0.5
H2-06	-3.4	Toluene	0.5
L2-01	45.7	Toluene	0.5
L2-01	35.2	Toluene	0.5
L2-01	26.1	Toluene	0.5
L2-01	15.7	Toluene	0.5
L2-01	6.6	Toluene	0.5
L2-01	-5.0	Toluene	0.5
L2-01	-15.6	Toluene	0.5
L2-02	47.2	Toluene	0.5
L2-02	36.6	Toluene	0.5
L2-02	27.2	Toluene	0.5
L2-02	16.5	Toluene	0.5
L2-02	8.8	Toluene	0.5
L2-03	45.3	Toluene	0.5
L2-03	35.3	Toluene	0.5
L2-03	27.7	Toluene	0.5
L2-03	21.9	Toluene	0.5
L2-03	46.6	Toluene	0.5
L2-03	46.2	Toluene	0.5
L2-04	44.5	Toluene	0.5
L2-04	33.4	Toluene	0.5
L2-04	25.0	Toluene	0.5
L2-05	46.9	Toluene	0.5
L2-05	35.4	Toluene	0.5
L2-05	25.8	Toluene	0.5
L2-05	45.7	Toluene	0.5
L2-05	25.9	Toluene	0.5
MW04	50.3	Toluene	0.25
MW04	41.3	Toluene	0.25
MW04	28.3	Toluene	2.05
P1-01	45.6	Toluene	0.5
P1-01	42.4	Toluene	0.5
P1-01	36.3	Toluene	0.5
P1-01	31.4	Toluene	0.5
P1-01	26.8	Toluene	0.5
P1-01	24.0	Toluene	0.5
P1-01	13.5	Toluene	0.5
P1-01	3.3	Toluene	0.5
P1-01	-5.2	Toluene	0.5
P1-01	-15.7	Toluene	0.5
P1-01	-26.7	Toluene	0.5
P1-02	43.7	Toluene	0.5
P1-02	24.2	Toluene	0.5

TABLE 1
ANALYTICAL RESULTS USED IN GROUNDWATER MODELING
MSGRP REMEDIAL INVESTIGATION REPORT
INDUSTRI-PLEX SITE, WOBURN, MASSACHUSETTS

Well ID	Sample Elevation (ft NGVD 88)	Parameter	Value Used in Modeling* (µg/L)
P1-02	13.5	Toluene	0.5
P1-02	5.7	Toluene	0.5
P1-02	-4.8	Toluene	0.5
P1-02	-14.8	Toluene	0.5
P1-02	-22.3	Toluene	0.5
P1-03	46.8	Toluene	0.5
P1-03	40.2	Toluene	0.5
P1-03	29.2	Toluene	0.5
P1-03	18.7	Toluene	0.5
P1-03	9.8	Toluene	0.5
P1-03	-0.3	Toluene	0.5
P1-04	54.8	Toluene	0.5
P1-04	44.8	Toluene	0.5
P1-04	35.9	Toluene	0.5
P1-04	23.8	Toluene	0.5
P1-05	39.8	Toluene	0.5
P1-05	30.7	Toluene	0.5
P1-05	24.7	Toluene	0.5
P1-05	12.1	Toluene	0.5
P1-05	-1.3	Toluene	0.5
P1-06	48.1	Toluene	0.5
P1-06	40.6	Toluene	0.5
P1-06	31.1	Toluene	0.5
P1-06	21.1	Toluene	0.5
P1-07	49.8	Toluene	0.5
P1-07	41.8	Toluene	0.5
P1-07	33.3	Toluene	0.5
RX-1	57.0	Toluene	0.51
RX-1	42.0	Toluene	1600
RX-10	56.2	Toluene	19
RX-10	46.2	Toluene	1700
RX-11	55.5	Toluene	74
RX-11	39.5	Toluene	66
RX-12	56.9	Toluene	0.1
RX-12	40.9	Toluene	0.1
RX-13	57.0	Toluene	0.25
RX-13	44.0	Toluene	9.4
RX-14	57.7	Toluene	0.1
RX-14	42.7	Toluene	0.45
RX-15	56.4	Toluene	5.1
RX-15	42.4	Toluene	0.1
RX-16	58.2	Toluene	4
RX-16	44.2	Toluene	0.5
RX-17	56.0	Toluene	97
RX-17	38.0	Toluene	4.4
RX-18	66.5	Toluene	160

TABLE 1
ANALYTICAL RESULTS USED IN GROUNDWATER MODELING
MSGRP REMEDIAL INVESTIGATION REPORT
INDUSTRI-PLEX SITE, WOBURN, MASSACHUSETTS

Well ID	Sample Elevation (ft NGVD 88)	Parameter	Value Used in Modeling* (µg/L)
RX-18	60.0	Toluene	110
RX-18	49.5	Toluene	25
RX-19	71.0	Toluene	0.28
RX-19	64.5	Toluene	2.5
RX-19	59.5	Toluene	25
RX-2	57.0	Toluene	0.91
RX-2	39.0	Toluene	850
RX-3	57.0	Toluene	5.7
RX-3	48.0	Toluene	120
RX-4	57.1	Toluene	5.4
RX-4	43.1	Toluene	1900
RX-5	57.1	Toluene	1.8
RX-5	43.1	Toluene	1800
RX-6	57.1	Toluene	67
RX-6	43.1	Toluene	2500
RX-7	54.8	Toluene	230
RX-7	41.2	Toluene	820
RX-8	55.5	Toluene	95
RX-8	39.5	Toluene	960
RX-9	57.2	Toluene	97
RX-9	39.2	Toluene	450
W5-01	50.2	Toluene	0.5
W5-01	42.2	Toluene	0.5
W5-01	30.0	Toluene	0.5
W5-01	12.0	Toluene	0.5
W5-02	46.4	Toluene	0.5
W5-02	28.1	Toluene	0.5
W5-02	14.6	Toluene	0.5
W5-02	29.3	Toluene	0.5
W5-03	48.3	Toluene	0.5
W5-03	32.5	Toluene	0.5
W5-03	21.7	Toluene	0.5
W5-03	7.6	Toluene	10
W5-03	-2.2	Toluene	6
W5-03	47.2	Toluene	0.5
W5-03	22.4	Toluene	0.5
W5-04	44.2	Toluene	0.5
W5-04	30.0	Toluene	1
W5-04	3.3	Toluene	2
W5-05	45.9	Toluene	0.5
W5-05	24.1	Toluene	1100
W5-05	21.5	Toluene	1200
W5-05	7.8	Toluene	35
W5-05	25.0	Toluene	900
W5-05	6.2	Toluene	14
W5-06	46.8	Toluene	0.5

TABLE 1
ANALYTICAL RESULTS USED IN GROUNDWATER MODELING
MSGRP REMEDIAL INVESTIGATION REPORT
INDUSTRI-PLEX SITE, WOBURN, MASSACHUSETTS

Well ID	Sample Elevation (ft NGVD 88)	Parameter	Value Used in Modeling* (µg/L)
W5-06	21.2	Toluene	2500
W5-06	17.7	Toluene	99
W5-06	-2.0	Toluene	0.5
W5-07	49.4	Toluene	0.5
W5-07	28.2	Toluene	0.5
W5-07	5.3	Toluene	0.5
W5-08	56.7	Toluene	0.5
W5-08	52.4	Toluene	0.5
W5-08	39.4	Toluene	0.5
W5-08	20.2	Toluene	0.5
AA01	66.1	Zinc	1.6
AA01	50.1	Zinc	1.6
AA02	66.0	Zinc	2.3
AA03	68.3	Zinc	31.7
AA05	62.8	Zinc	1.6
AA06	60.1	Zinc	2.6
AA06	53.1	Zinc	1.75
AA06	68.1	Zinc	1.9
AA07	68.6	Zinc	2.2
AA07	41.6	Zinc	2.3
AA07	60.6	Zinc	9
AA08	66.1	Zinc	3.5
AA09	69.8	Zinc	3.2
AC01	45.7	Zinc	5
AC01	27.7	Zinc	144
AC02	42.0	Zinc	1.9
AC03	42.5	Zinc	4.4
AC03	13.5	Zinc	65.1
AC04	45.4	Zinc	4.85
AC04	29.4	Zinc	113
AC05	43.0	Zinc	80.2
AC06	51.7	Zinc	2.3
AC06	48.7	Zinc	2.3
AC06	38.7	Zinc	6.4
AE01	18.1	Zinc	26.9
AE01	8.5	Zinc	37.5
AE01	42.5	Zinc	114
AE01	-13.5	Zinc	304
AE02	41.3	Zinc	9.3
AE02	-18.7	Zinc	46.6
AE03	-23.8	Zinc	6
AE03	4.2	Zinc	58.9
AE03	44.2	Zinc	90
AE04	-32.0	Zinc	20.4
AE04	-5.0	Zinc	489
AE04	43.0	Zinc	867

TABLE 1
ANALYTICAL RESULTS USED IN GROUNDWATER MODELING
MSGRP REMEDIAL INVESTIGATION REPORT
INDUSTRI-PLEX SITE, WOBURN, MASSACHUSETTS

Well ID	Sample Elevation (ft NGVD 88)	Parameter	Value Used in Modeling* (µg/L)
AE05	-7.4	Zinc	15.2
AE05	41.6	Zinc	146
AE05	25.6	Zinc	262
AE06	32.9	Zinc	2.3
AE06	12.9	Zinc	2.3
AE06	45.9	Zinc	21.6
AE07	44.3	Zinc	2.3
AE07	29.3	Zinc	10.5
AF01	-49.7	Zinc	4.3
AF01	40.3	Zinc	21.1
AF01	-8.7	Zinc	66.3
AF02	22.2	Zinc	62
AF02	40.2	Zinc	71.7
AF02	-20.8	Zinc	102
AF03	43.6	Zinc	2.3
AF03	24.6	Zinc	28.8
AF03	0.6	Zinc	71.7
AF03	12.6	Zinc	79.6
AG01	46.5	Zinc	2.3
AG01	3.5	Zinc	70.4
AG01	-12.5	Zinc	85.7
AG02	-22.2	Zinc	12.4
AG02	42.8	Zinc	27.4
AG02	16.8	Zinc	54.8
AG03	1.4	Zinc	2.3
AG03	39.4	Zinc	24.2
AG03	-24.6	Zinc	60.1
AP01	67.2	Zinc	182
AP01	61.2	Zinc	367
AP02	68.4	Zinc	228
AP02	63.4	Zinc	308
AP02	53.4	Zinc	2780
AP03	59.7	Zinc	29.5
AP03	65.7	Zinc	4060
B1-04	70.0	Zinc	5.6
B2-05	44.0	Zinc	22.2
B2-05	53.1	Zinc	2250
B2-06	62.4	Zinc	1.6
B3-02	60.0	Zinc	1.6
B3-02	55.3	Zinc	2.2
B3-03	39.6	Zinc	16
B4-04	56.0	Zinc	10600
B4-04	45.1	Zinc	31700
B4-05	41.4	Zinc	44.9
B5-01	54.5	Zinc	1.6
B5-02	52.2	Zinc	3.6

TABLE 1
ANALYTICAL RESULTS USED IN GROUNDWATER MODELING
MSGRP REMEDIAL INVESTIGATION REPORT
INDUSTRI-PLEX SITE, WOBURN, MASSACHUSETTS

Well ID	Sample Elevation (ft NGVD 88)	Parameter	Value Used in Modeling* (µg/L)
B5-02	44.4	Zinc	4.2
B5-03	36.4	Zinc	19.4
B6-03	55.4	Zinc	5.9
B6-03	49.4	Zinc	7.1
B6-03	39.4	Zinc	9.2
B7-01	50.8	Zinc	92.9
B7-01	-0.5	Zinc	1510
B7-02	48.4	Zinc	280
B7-02	39.1	Zinc	8560
B7-03	49.6	Zinc	1.6
B7-03	34.4	Zinc	1.6
B8-01	-6.2	Zinc	22.5
B8-01	48.3	Zinc	1340
B8-04	26.7	Zinc	15.4
B9-01	22.6	Zinc	4.25
B9-04	54.6	Zinc	13.2
B9-05	45.5	Zinc	132
CA02	58.2	Zinc	11.4
CA03	61.5	Zinc	2.3
CA04	47.8	Zinc	2.3
CA04	60.8	Zinc	16.3
CA04	39.8	Zinc	45.3
CA05	64.3	Zinc	2.3
CA05	56.3	Zinc	35.7
CA06	56.7	Zinc	2.3
CA06	40.7	Zinc	6.4
CA06	50.7	Zinc	8.8
CA07	60.0	Zinc	2.3
CA08	59.1	Zinc	79
CA09	57.2	Zinc	2.7
CA09	40.2	Zinc	36.9
CA09	53.2	Zinc	168
E3-02	1.5	Zinc	1.6
E4-02	55.5	Zinc	1.6
E4-03	56.2	Zinc	1.6
E4-03	39.9	Zinc	1.6
H1-04	20.9	Zinc	22.2
H1-04	11.6	Zinc	1.6
H2-02	39.6	Zinc	266
H2-02	15.3	Zinc	357
H2-04	-0.8	Zinc	82.9
H2-04	-11.5	Zinc	38
L2-03	46.2	Zinc	3.6
L2-05	25.9	Zinc	3.3
L2-05	45.7	Zinc	4.7
MW04	28.3	Zinc	60.2

TABLE 1
ANALYTICAL RESULTS USED IN GROUNDWATER MODELING
MSGRP REMEDIAL INVESTIGATION REPORT
INDUSTRI-PLEX SITE, WOBURN, MASSACHUSETTS

Well ID	Sample Elevation (ft NGVD 88)	Parameter	Value Used in Modeling* (µg/L)
P1-01	45.6	Zinc	1.6
P1-01	36.3	Zinc	1.6
P1-01	31.4	Zinc	1.6
P1-01	24.0	Zinc	1.6
P1-01	13.5	Zinc	1.6
P1-01	3.3	Zinc	1.6
P1-01	42.4	Zinc	12
P1-01	-5.2	Zinc	566
P1-01	-26.7	Zinc	1880
P1-01	-15.7	Zinc	3000
P1-01	26.7	Zinc	1.6
P1-02	5.7	Zinc	1.6
P1-02	-4.8	Zinc	1.6
P1-02	13.5	Zinc	53.6
P1-02	-14.8	Zinc	107
P1-02	24.2	Zinc	466
P1-02	43.7	Zinc	470
P1-03	40.2	Zinc	1.6
P1-03	9.8	Zinc	1.6
P1-03	46.8	Zinc	4
P1-03	29.2	Zinc	4.7
P1-04	35.9	Zinc	1.6
P1-04	44.8	Zinc	2.6
P1-04	23.8	Zinc	3.6
P1-04	54.8	Zinc	20.6
P1-05	39.8	Zinc	1.6
P1-05	30.7	Zinc	1.6
P1-05	24.7	Zinc	1.6
P1-05	-1.3	Zinc	8.4
P1-05	12.1	Zinc	28.5
P1-06	48.1	Zinc	1.6
P1-06	40.6	Zinc	1.6
P1-06	31.1	Zinc	1.6
P1-06	21.1	Zinc	3.6
P1-07	49.8	Zinc	1.6
P1-07	33.3	Zinc	1.6
P1-07	41.8	Zinc	11.7
W5-03	-2.2	Zinc	62.7
W5-03	22.4	Zinc	8
W5-03	47.2	Zinc	271
W5-05	6.2	Zinc	1.6
W5-05	25.0	Zinc	11.8
W5-08	52.4	Zinc	2390

* One-half of non-detected values used for non-detects

Groundwater Modeling Information

SUPPORT FOR SECTION 4.3

1.0 PLUME IMAGING

Groundwater contaminant concentration data were interpolated in three dimensions using the Visual Groundwater™ software package. Two-dimensional slices through the three-dimensional model domain provided images of the spatial distribution of each contaminant at specified elevations or along specified cross section lines.

1.1 Interpolation and Contouring

Three-dimensional interpolation in Visual Groundwater™ is accomplished via the natural neighbor method. The natural neighbor method is based on the Voronoi tessellation of the data points. In this method the model domain is split into a set of three-dimensional polygons. Each polygon is associated with a single data point such that the interior of the polygon corresponds to the region of space that is closest to the data point. To interpolate to a grid node in the model domain, the tessellation is recomputed with the addition of the interpolation point. The Voronoi polygon of the interpolation point is then compared with the original tessellation of just the data points. Those data points whose original Voronoi polygons overlap space occupied by the interpolation point polygon are its natural neighbors, and this natural neighbor subset of data points is used to interpolate the value at the grid node. The number of natural neighbors about an interpolation point depends on the geometric configuration of the grid and data values. The interpolation weight assigned to a data point is simply the volume fraction of the interpolation point polygon that is shared by the original polygon of the datum. For more information on the natural neighbor interpolation method see Watson (1992).

Traditionally, three-dimensional hydrogeologic data were interpolated in two dimensions. For example, plan view contour maps of three-dimensional plumes were generated either by selecting a depth interval and only contouring data from those wells whose screens intercepted that interval, or contouring data from all of the wells at a site irrespective of screen depths. However, when three-dimensional data are interpolated in two dimensions one of two problems arise: 1) potentially valuable information existing above and below the plane of interest is ignored if only those samples intersecting the plane are contoured, or 2) the spatial

relationships between data points and the weights assigned to each data point are distorted if points above and below the plane of interest are transposed onto this plane and subsequently contoured. Three-dimensional interpolation avoids these pitfalls because all of the data points are considered in the interpolation process, but the influence of a given datum on the contours shown on a 2-D slice through the 3-D model domain decreases as its distance from that plane increases.

The aforementioned problems associated with two-dimensional interpolation become increasingly difficult to manage as the number of data points, the vertical separation between data points, and the variability in vertical separation distances increase. Both problems can be minimized by plotting a series of contour maps for a variety of narrow depth intervals and cross-sectional orientations. This approach also enables the professional judgment of the hydrogeologist to be utilized in the contouring process. For each interpolation and contouring project a decision needs to be made as to whether the advantage of incorporating subjective professional judgment in the creation of a set of images outweighs the advantages of objective 3-D interpolation, efficient handling of large data sets, and the ability to visualize and manipulate data in 3-D space.

1.2 Plume Map Limitations

Several points must be considered when viewing the plume maps. First, the colored portion of each image represents the areal extent of the available data for that contaminant at the specified elevation or along the specified cross section line. Consequently, the areal extent of contamination may be greater than that shown. Second, data density varies, so modeled concentrations in areas of low sample density have greater uncertainty associated with them. Data density effects are most conspicuous along the outer margins of the plume maps. For example, long, narrow zones of apparent high concentrations may appear along the edges of images where contaminant concentrations in widely-separated wells are high and there are no intervening wells. Third, the interpolation algorithm smooths data values; as a result, actual concentrations at some locations may be different from those shown. Great care was taken to minimize smoothing and verify the accuracy of modeled concentrations at locations having hard data, but some smoothing was inevitable, and its effects were more pronounced where extreme high and low values occurred in close proximity to one another.

Finally, an additional source of uncertainty in these images is due to samples having nondetectable concentrations of individual contaminants. When a substance was not detected in a given sample and the detection limit was very low, a value of one-half the detection limit was assigned to that contaminant at that sample location. However, when the detection limit was relatively high, the location was excluded from the data set for that contaminant, because the consequences of assigning a value to that sample location were more significant. For example, assigning a 5 µg/L benzene concentration to a location where benzene was not detected and its detection limit was 10 µg/L, would imply a potential drinking water hazard at a location where no hazard may actually exist.

TABLE 1
USE OF SAMPLE NONDETECTS IN PLUME MAPS

Contaminant	USEPA Maximum Contaminant Level (MCL) (µg/L)	Detection Limit Cutoff (µg/L)	Concentration Assigned to Point where Detection Limit was at or Below Cutoff
Benzene	5	5	< 2.5
Trichloroethene	5	5	< 2.5
Toluene	1000	10	< 5
Arsenic	10	10	< 5
Zinc	——	10	< 5

References Cited

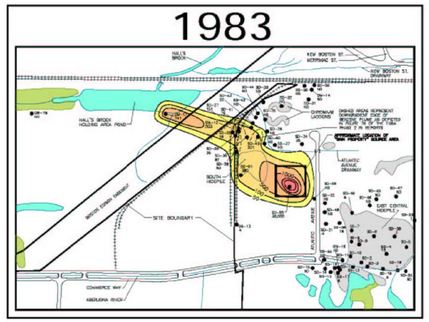
Watson, D. 1992. *Contouring: A Guide to the Analysis and Display of Spatial Data.* Pergamon Press, New York, NY, 321p.

4B-4 Historical Benzene/Toluene Concentrations Figures

HISTORICAL BENZENE/TOLUENE CONCENTRATIONS INDUSTRI-PLEX SITE

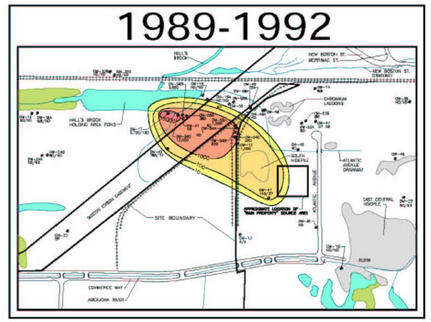
BENZENE

1983



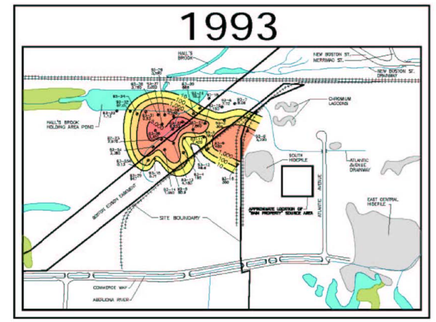
Estimated Total Mass of Benzene in the "Bain Property" Source Area: 125 lb
Estimated Total Mass of Benzene Plume: 262 lb

1989-1992

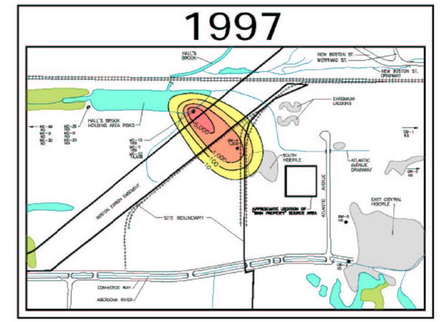


Estimated Total Mass of Benzene in the "Bain Property" Source Area: 29 lb
Estimated Total Mass of Benzene Plume: 621 lb

1993

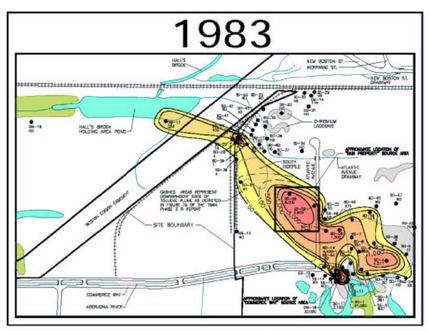


1997



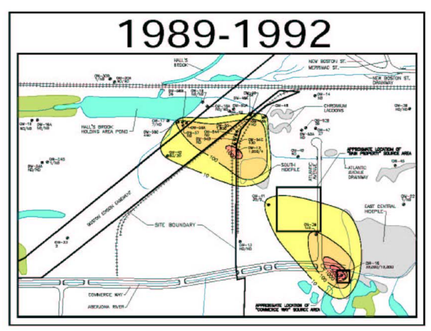
TOLUENE

1983



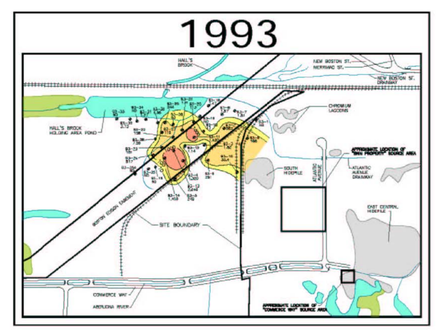
Estimated Total Mass of Toluene in the "Bain Property" Source Area: 390 lb
Estimated Total Mass of Toluene in the "Commerce Way" Source Area: 18 lb
Estimated Total Mass of Toluene Plume: 704 lb

1989-1992

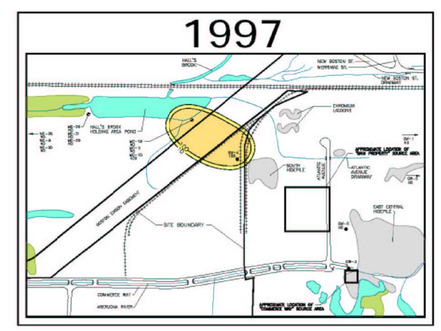


Estimated Total Mass of Toluene in the "Bain Property" Source Area: 44 lb
Estimated Total Mass of Toluene in the "Commerce Way" Source Area: 25 lb
Estimated Total Mass of Toluene Plume: 308 lb

1993



1997



Estimated Total Mass of Combined Benzene/Toluene Plumes in 1983: 966 lb

Estimated Total Mass of Combined Benzene/Toluene Plumes in 1989-1992: 929 lb

ROUX ASSOCIATES INC.

ROUX ASSOCIATES, INC., "RESPONSE TO USEPA GSIP PHASE 2 RI DRAFT REPORT COMMENTS AND USEPA GSIP PHASE 3 APPROACH AND USEPA OXYGEN INJECTION WORK PLAN COMMENTS", DECEMBER 1997.