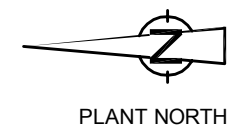


APPENDIX B

CROSS-SECTIONAL VIEWS ILLUSTRATING BUILDING
SPECIFIC CONCENTRATIONS IN AIR, SOIL AND GROUNDWATER



Outside Air-30	3/15/2014
1,1,1-Trichloroethane	0.022 J
1,2,4-Trimethylbenzene	0.27
1,3,5-Trimethylbenzene	0.087 J
1,4-Dichlorobenzene	0.023 J
Benzene	0.62
Carbon tetrachloride	0.45
Chloroform (Trichloromethane)	0.085 J
cis-1,2-Dichloroethene	0.098
Ethylbenzene	1.6
m&p-Xylenes	6.5
Methylene chloride	0.31
Naphthalene	0.14 J
o-Xylene	1.8
Styrene	0.16
Tetrachloroethene	0.13
Toluene	2.1
trans-1,2-Dichloroethene	0.012 J
Trichloroethene	0.17
Vinyl chloride	0.044

Outside Air-18P	3/18/2014
1,1,1-Trichloroethane	0.027
1,2,4-Trimethylbenzene	0.16
1,4-Dichlorobenzene	0.030
Benzene	0.75
Ethylbenzene	1.1
m&p-Xylenes	4.0
o-Xylene	1.2
Styrene	0.13
Tetrachloroethene	0.16
Toluene	1.8
Trichloroethene	0.076

Outside Air-18	4/24/2013	3/14/2014
1,1,1-Trichloroethane	0.032 J	0.021 J
1,2,4-Trimethylbenzene	0.81 J	0.22
1,3,5-Trimethylbenzene	0.83 U	0.062 J
1,4-Dichlorobenzene	0.022 J	0.023 J
Benzene	0.72	0.62
Carbon tetrachloride	0.48	0.48
Chloroform (Trichloromethane)	0.089 J	0.082 J
cis-1,2-Dichloroethene	0.042 U	0.027 J
Ethylbenzene	1.1	0.74
m&p-Xylenes	3.8	2.8
Methylene chloride	0.83 U	0.40
Naphthalene	0.077 J	0.10 J
o-Xylene	1.3	0.93
Styrene	0.83 U	0.17
Tetrachloroethene	0.14 J	0.18
Toluene	2.1	3.1
Trichloroethene	0.033 J	0.073
Vinyl chloride	0.042 U	0.012 J
Xylenes (total)	5.1	-

Indoor Air-29	3/14/2014
1,1,1-Trichloroethane	0.047
1,2,4-Trimethylbenzene	0.020 J
1,3,5-Trimethylbenzene	0.82
1,4-Dichlorobenzene	0.25
Benzene	0.054
Carbon tetrachloride	0.96(f)
Chloroform (Trichloromethane)	0.47(f)
cis-1,2-Dichloroethene	0.098 J
Ethylbenzene	0.030 J
m&p-Xylenes	1.1
Methylene chloride	4.1
Naphthalene	0.60
o-Xylene	0.32
Styrene	0.17
Tetrachloroethene	1.4
Toluene	0.39
Trichloroethene	0.55
Vinyl chloride	4.1
Xylenes (total)	0.30

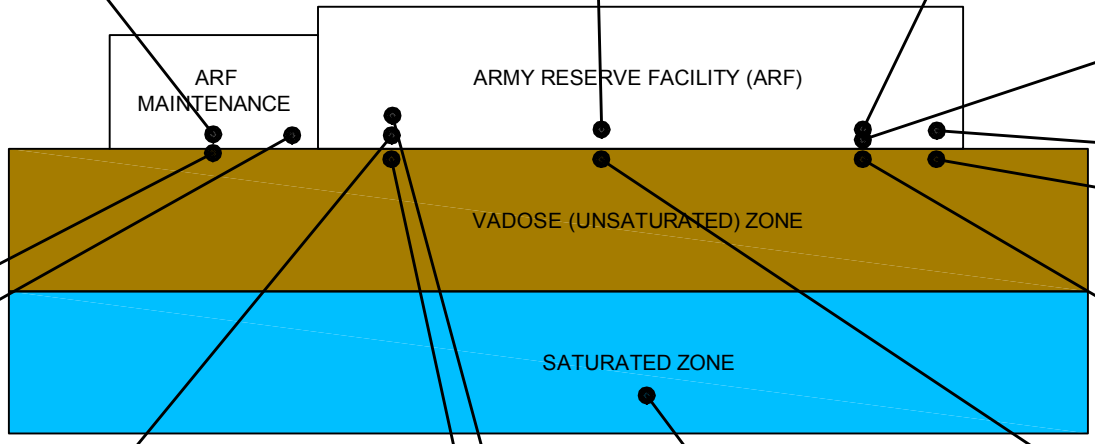
Indoor Air-22	4/23/2013
1,1,1-Trichloroethane	0.072
1,2,4-Trimethylbenzene	0.86
1,3,5-Trimethylbenzene	0.30 J
1,4-Dichlorobenzene	0.15 J
Benzene	0.67(f)
Carbon tetrachloride	0.46(f)
Chloroform (Trichloromethane)	0.14 J(f)
Ethylbenzene	0.94
m&p-Xylenes	3.2
Naphthalene	0.17
o-Xylene	1.2
Styrene	0.36
Tetrachloroethene	2.2
Toluene	0.033 J
Trichloroethene	0.066
Vinyl chloride	4.4
Xylenes (total)	-

Indoor Air-18	4/22/2013	3/14/2014
1,1,1-Trichloroethane	0.049	0.028 J
1,2,4-Trimethylbenzene	0.041 U	0.067
1,3,5-Trimethylbenzene	0.82	0.72
1,4-Dichlorobenzene	0.30 J	0.21
Benzene	0.14 J	0.059
Carbon tetrachloride	0.43(f)	0.87(f)
Chloroform (Trichloromethane)	0.31	0.43(f)
cis-1,2-Dichloroethene	0.041 U	0.10 J
Ethylbenzene	1.4	1.0
m&p-Xylenes	5.3	3.9
Methylene chloride	0.82 U	0.41
Naphthalene	0.081 J	0.28
o-Xylene	1.6	1.3
Styrene	0.82 U	0.40
Tetrachloroethene	0.23	0.29
Toluene	1.2	2.9
Trichloroethene	0.054	0.099
Vinyl chloride	0.072	0.026 J
Xylenes (total)	6.9	-

Indoor Air-17	4/23/2013	3/14/2014
1,1,1-Trichloroethane	0.089	0.064
1,1-Dichloroethene	0.010 J	0.035 U
1,2,4-Trimethylbenzene	1.3	1.1
1,3,5-Trimethylbenzene	0.40 J	0.35
1,4-Dichlorobenzene	0.054	0.061
Benzene	0.69(f)	1.1(f)
Carbon tetrachloride	0.51(f)	0.47(f)
Chloroform (Trichloromethane)	0.11 J	0.10 J
cis-1,2-Dichloroethene	0.038 U	0.033 J
Ethylbenzene	1.4	1.2
m&p-Xylenes	4.9	4.3
Methylene chloride	0.91 U	0.50
Naphthalene	0.62(a)	0.35
o-Xylene	1.7	1.5
Styrene	0.40 J	0.47
Tetrachloroethene	0.21	0.19
Toluene	4.9	4.8
trans-1,2-Dichloroethene	0.050	0.035 U
Trichloroethene	0.074	0.076
Vinyl chloride	0.095	0.049
Xylenes (total)	6.6	-

Sub-Slab Probe-30	3/14/2014
1,1,1-Trichloroethane	1.8
1,1-Dichloroethene	0.021 J
1,2,4-Trimethylbenzene	0.061 J
1,3,5-Trimethylbenzene	0.017 J
1,4-Dichlorobenzene	0.018 J
Benzene	0.20
Carbon tetrachloride	1.6
Chloroform (Trichloromethane)	2.1(h)
cis-1,2-Dichloroethene	0.0089 J
Ethylbenzene	0.067 J
m&p-Xylenes	0.27
Naphthalene	0.12 J
o-Xylene	0.11 J
Styrene	0.059 J
Tetrachloroethene	30
Toluene	0.12 J
Trichloroethene	100(c,d,h,i)

Indoor Air-30	3/15/2014
1,1,1-Trichloroethane	0.058
1,2,4-Trimethylbenzene	1.0
1,3,5-Trimethylbenzene	0.28
1,4-Dichlorobenzene	0.024 J
Benzene	1.2(f)
Carbon tetrachloride	0.42
Chloroform (Trichloromethane)	0.096 J
cis-1,2-Dichloroethene	0.079
Ethylbenzene	1.8
m&p-Xylenes	7.4
Methylene chloride	0.32
Naphthalene	0.90(a)
o-Xylene	2.1
Styrene	0.22
Tetrachloroethene	0.16
Toluene	4.2
trans-1,2-Dichloroethene	0.011 J
Trichloroethene	2.6(f,g)
Vinyl chloride	0.040



Sub-Slab Probe-17	4/22/2013	3/13/2014
1,1,1-Trichloroethane	1.6	1.0
1,2,4-Trimethylbenzene	4.7 U	0.084 J
Carbon tetrachloride	1.6	1.2
Chloroform (Trichloromethane)	0.25 J	0.18 J
Ethylbenzene	0.045 J	0.081 J
m&p-Xylenes	0.15 J	0.23 J
Naphthalene	0.94 U	0.14 J
o-Xylene	0.050 J	0.098 J
Tetrachloroethene	0.70	1.0
Toluene	0.94 U	1.1
Trichloroethene	0.084 J	0.42
Xylenes (total)	0.2 J	-

Indoor Air-31	3/15/2014
1,1,1-Trichloroethane	0.080
1,2,4-Trimethylbenzene	0.98
1,3,5-Trimethylbenzene	0.27
1,4-Dichlorobenzene	0.025 J
Benzene	1.1(f)
Carbon tetrachloride	0.43(f)
Chloroform (Trichloromethane)	0.10 J
cis-1,2-Dichloroethene	0.080
Ethylbenzene	1.8
m&p-Xylenes	6.7
Methylene chloride	0.60
Naphthalene	0.29
o-Xylene	2.0
Styrene	0.30
Tetrachloroethene	0.32
Toluene	4.4
trans-1,2-Dichloroethene	0.013 J
Trichloroethene	2.9(f,g)
Vinyl chloride	0.042

Indoor Air-19	4/23/2013	3/14/2014
1,1,1-Trichloroethane	0.11	0.067
1,2,4-Trimethylbenzene	0.80	0.51
1,3,5-Trimethylbenzene	0.27 J	0.14 J
1,4-Dichlorobenzene	0.16	0.089
Benzene	0.67(f)	0.80(f)
Carbon tetrachloride	0.46(f)	0.48(f)
Chloroform (Trichloromethane)	0.18(f)	0.094 J
cis-1,2-Dichloroethene	0.039 U	0.040
Ethylbenzene	1.1	0.82
m&p-Xylenes	3.9	3.0
Methylene chloride	0.77 U	0.36
Naphthalene	0.095 J	0.17
o-Xylene	1.3	1.0
Styrene	0.23 J	0.24
Tetrachloroethene	0.60	0.20
Toluene	2.5	2.5
trans-1,2-Dichloroethene	0.017 J	0.011 J
Trichloroethene	0.045	0.13
Vinyl chloride	0.11	0.038
Xylenes (total)	5.2	-

Sub-Slab Probe-19	4/22/2013	3/13/2014
1,1,1-Trichloroethane	1.2	0.91
Carbon tetrachloride	6.5(h)	2.3
Chloroform (Trichloromethane)	0.79	0.35 J
Ethylbenzene	0.049 J	0.78 U
m&p-Xylenes	0.20	0.15 J
Naphthalene	0.057 J	0.19 J
o-Xylene	0.065 J	0.072 J
Tetrachloroethene	5.4	5.1
Toluene	0.27 J	2.6
Trichloroethene	0.23	0.45
Xylenes (total)	0.265 J	-

Indoor Air-19P	3/18/2014
1,1,1-Trichloroethane	0.049
1,2,4-Trimethylbenzene	0.27
1,4-Dichlorobenzene	0.093
Benzene	0.64(f)
Ethylbenzene	1.0
m&p-Xylenes	3.8
o-Xylene	1.2
Styrene	0.15
Tetrachloroethene	0.16
Toluene	2.2
Trichloroethene	0.095

Groundwater-77C-25	7/16/2012	25 ft BGS
1,1,2,2-Tetrachloroethane	0.50 U	
1,1-Dichloroethene	0.50 U	
Benzene	0.50 U	
Carbon tetrachloride	0.50 U	
cis-1,2-Dichloroethene	3.4	
Ethylbenzene	0.50 U	
m&p-Xylenes	0.11 J	
Methylene chloride	2.0 U	
o-Xylene	0.50 U	
Tetrachloroethene	0.64	
Toluene	0.090 J	
trans-1,2-Dichloroethene	0.26 J	
Trichloroethene	2.3	
Vinyl chloride	0.21 J	

Sub-Slab Probe-29	3/13/2014
1,1,1-Trichloroethane	0.60
1,1-Dichloroethene	0.010 J
1,2,4-Trimethylbenzene	0.097 J
1,3,5-Trimethylbenzene	0.035 J
1,4-Dichlorobenzene	0.036 J
Benzene	0.65
Carbon tetrachloride	2.0
Chloroform (Trichloromethane)	0.48
cis-1,2-Dichloroethene	0.033 J
Ethylbenzene	0.087 J
m&p-Xylenes	0.31
Methylene chloride	0.33
Naphthalene	0.096 J
o-Xylene	0.15 J
Styrene	0.093 J
Tetrachloroethene	3.4
Toluene	0.81 U
trans-1,2-Dichloroethene	0.40
Trichloroethene	0.016 J
Xylenes (total)	0.37

Sub-Slab Probe-18	4/22/2013	3/13/2014
1,1,1-Trichloroethane	0.19 J	0.16
1,2,4-Trimethylbenzene	4.0 U	0.029 J
1,4-Dichlorobenzene	0.20 U	0.014 J
Carbon tetrachloride	1.9	1.8
Chloroform (Trichloromethane)	0.54 J	0.49
Ethylbenzene	0.047 J	0.039 J
m&p-Xylenes	0.15 J	0.13 J
Naphthalene	0.81 U	0.087 J
o-Xylene	0.056 J	0.047 J
Styrene	5.0	4.5
Tetrachloroethene	0.81 U	1.5
Toluene	0.20 U	0.012 J
trans-1,2-Dichloroethene	1.3	1.6
Trichloroethene	0.206 J	-
Xylenes (total)	-	-

NOT TO SCALE

LEGEND

SAMPLE LOCATION	SAMPLE DATE	SAMPLE DEPTH	RESULT	PARAMETER
Sub-Slab Probe-5	4/20/2013	-	3600	Tetrachloroethene
			1500	Trichloroethene

- NOTES:**
- AIR ANALYTICAL DATA REPORTED IN $\mu\text{g}/\text{m}^3$
 - GROUNDWATER ANALYTICAL DATA REPORTED IN $\mu\text{g}/\text{L}$.
 - SOIL AND GROUNDWATER DATA REPRESENTED BY MOST RECENT, SHALLOWEST, AND NEARBY SAMPLES, WHERE AVAILABLE.

(a) EXCEEDS CRITERIA IDENTIFIED IN PARENTHESIS (SEE TABLE 3)

**BUILDING SPECIFIC CONCENTRATIONS IN AIR, SOIL, AND GROUNDWATER
ARMY RESERVE FACILITY
VAPOR INVESTIGATION**

Occidental Chemical Corporation, Tacoma, Washington



PLANT NORTH

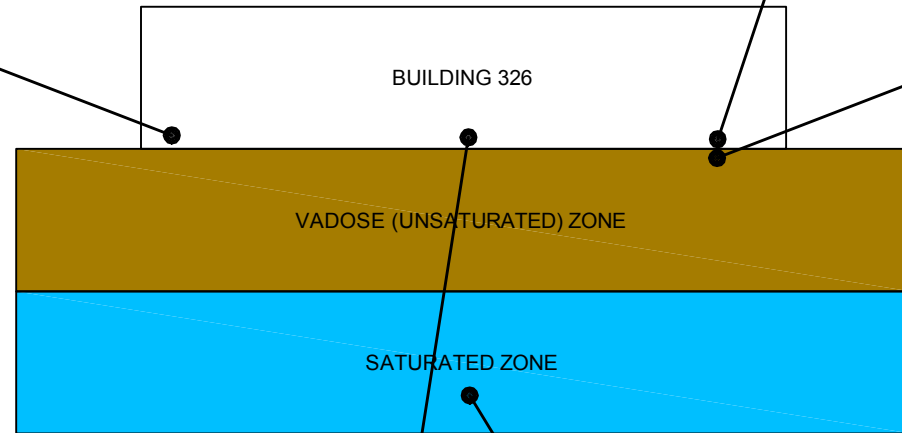
Indoor Air-8	4/24/2013	7/1/2013
-	-	-
1,1,1-Trichloroethane	0.030 J/0.029 J	0.050 U
1,1-Dichloroethane	0.040/0.042	-
1,2,4-Trimethylbenzene	1.0/0.98	1.8
1,3,5-Trimethylbenzene	0.31 J/0.32 J	-
1,4-Dichlorobenzene	2.0(a)/1.9(a)	58 J(a)
Benzene	0.68(f)/0.76(f)	0.64(f)
Carbon tetrachloride	0.48(f)/0.44(f)	-
Chloroform (Trichloromethane)	0.26(f)/0.26(f)	-
Ethylbenzene	1.4/1.2	6.9(a)
m&p-Xylenes	4.3/3.7	29
Naphthalene	0.21/0.23	-
o-Xylene	1.8/1.3	9.5
Styrene	0.45 J/0.51 J	1.2
Tetrachloroethene	0.66/0.63	0.79
Toluene	3.2/3.9	3.1
trans-1,2-Dichloroethene	0.035 U/0.051	-
Trichloroethene	0.45/0.44	0.30
Vinyl chloride	0.0060 J/0.0057 J	-
Xylenes (total)	6.1/5	38.5

Outside Air-7B	7/1/2013
-	-
1,2,4-Trimethylbenzene	0.71
1,4-Dichlorobenzene	0.61
Benzene	0.48
Ethylbenzene	4.8
m&p-Xylenes	21
o-Xylene	6.8
Styrene	0.52
Tetrachloroethene	0.082
Toluene	1.7
Xylenes (total)	27.8

Outside Air-7	4/24/2013
-	-
1,1,1-Trichloroethane	0.028 J
1,2,4-Trimethylbenzene	1.2
1,3,5-Trimethylbenzene	0.38 J
1,4-Dichlorobenzene	0.038 J
Benzene	0.76
Carbon tetrachloride	0.47
Chloroform (Trichloromethane)	0.095 J
Ethylbenzene	0.77 J
m&p-Xylenes	2.3
Naphthalene	0.15 J
o-Xylene	0.89
Tetrachloroethene	0.13 J
Toluene	2.6
Trichloroethene	0.024 J
Xylenes (total)	3.19

Indoor Air-7	4/24/2013	7/1/2013
-	-	-
1,1,1-Trichloroethane	0.032 J	0.050 U
1,1-Dichloroethane	0.022 J	-
1,2,4-Trimethylbenzene	4.7(g)	16(g)
1,3,5-Trimethylbenzene	1.5	-
1,4-Dichlorobenzene	0.14 J	1.3(a)
Benzene	0.71(f)	0.65(f)
Carbon tetrachloride	0.45(f)	-
Chloroform (Trichloromethane)	0.19(f)	-
Ethylbenzene	1.0	4.1
m&p-Xylenes	2.9	16
Naphthalene	0.16	-
o-Xylene	1.1	5.6
Styrene	0.35 J	1.9
Tetrachloroethene	4.1	6.9
Toluene	2.6	3.9
Trichloroethene	3.9(a,f,g)	3.1(a,f,g)
Vinyl chloride	0.0042 J	-
Xylenes (total)	4	21.6

Sub-Slab Probe-7	4/24/2013	6/25/2013
-	-	-
1,1,1-Trichloroethane	1.2	1.6
1,1,2,2-Tetrachloroethane	0.039 U	0.037 J
1,1-Dichloroethane	0.012 J	0.019 J
1,4-Dichlorobenzene	0.035 J	0.063
Benzene	0.12 U	0.16
Carbon tetrachloride	0.14	0.14
Chloroform (Trichloromethane)	0.15 J	0.37
Ethylbenzene	0.043 J	0.12 J
Hexachlorobutadiene	0.026 J	0.039 U
m&p-Xylenes	0.13 J	0.34
Methylene chloride	0.78 U	0.37
Naphthalene	0.087 J	0.33
o-Xylene	0.035 J	0.17
Styrene	0.78 U	0.30 J
Tetrachloroethene	12	15
Toluene	0.26 J	0.34
trans-1,2-Dichloroethene	0.039 U	0.020 J
Trichloroethene	10(h,i)	14(h,i)
Vinyl chloride	0.039 U	0.0051 J
Xylenes (total)	0.165 J	0.51



Indoor Air-28	7/1/2013
-	-
1,2,4-Trimethylbenzene	10(g)
1,4-Dichlorobenzene	2.2(a)
Benzene	0.64(f)
Ethylbenzene	4.0
m&p-Xylenes	15
o-Xylene	5.0
Styrene	2.1
Tetrachloroethene	4.9
Toluene	4.0
Trichloroethene	2.0(f,g)
Xylenes (total)	20

Groundwater-34-25R	8/20/2012
-	-
1,1,2,2-Tetrachloroethane	25 U
1,1-Dichloroethane	15 J
Benzene	25 U
Carbon tetrachloride	25 U
Chloroform (Trichloromethane)	25 U
cis-1,2-Dichloroethene	840
Ethylbenzene	25 U
m&p-Xylenes	25 U
Methylene chloride	11 J
o-Xylene	25 U
Tetrachloroethene	25 U
Toluene	25 U
trans-1,2-Dichloroethene	290
Trichloroethene	25 U
Vinyl chloride	56

NOT TO SCALE

LEGEND

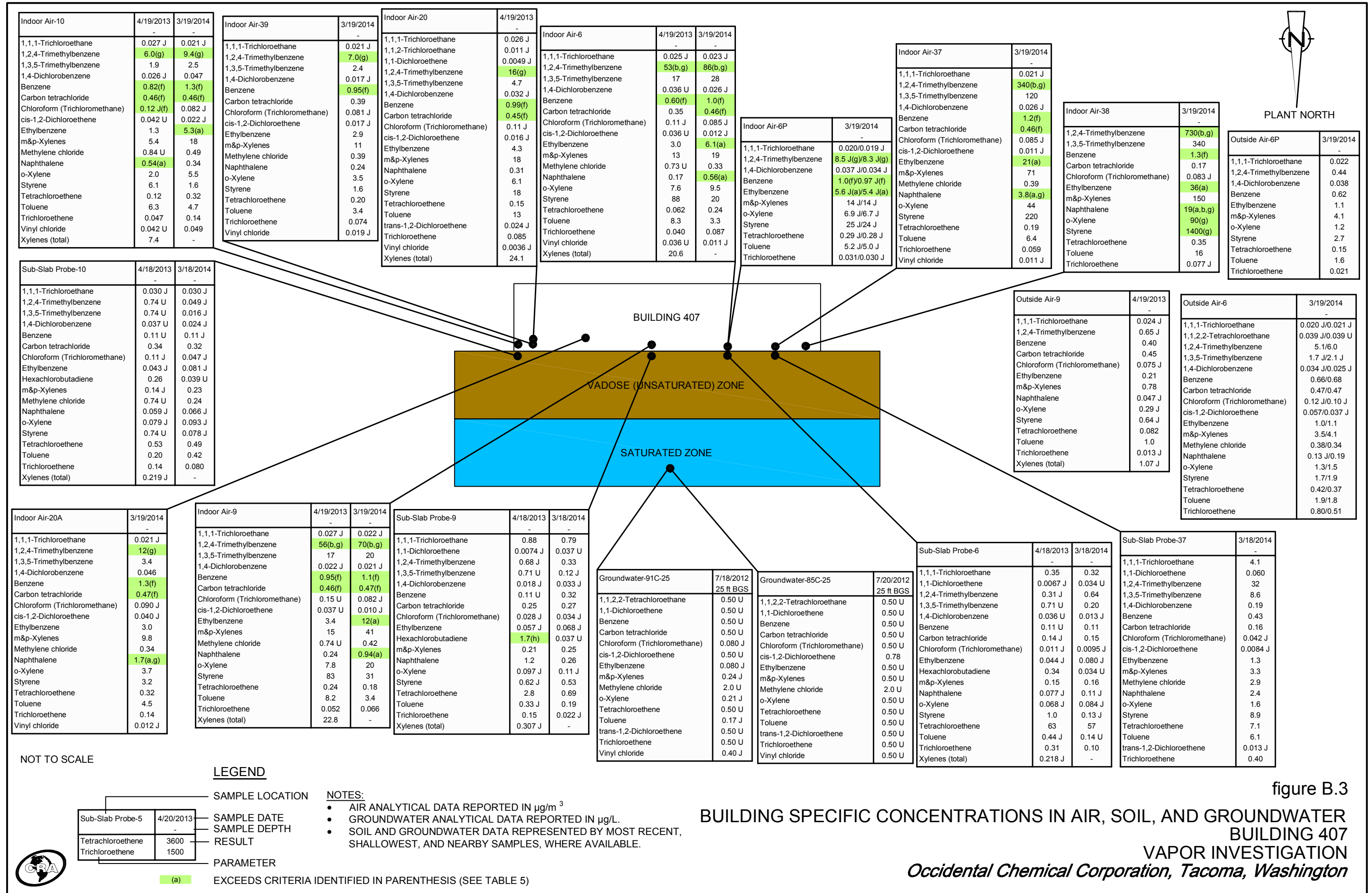
SAMPLE LOCATION	SAMPLE DATE	SAMPLE DEPTH	RESULT	PARAMETER
Sub-Slab Probe-5	4/20/2013	-	3600	Tetrachloroethene
			1500	Trichloroethene

NOTES:

- AIR ANALYTICAL DATA REPORTED IN $\mu\text{g}/\text{m}^3$
- GROUNDWATER ANALYTICAL DATA REPORTED IN $\mu\text{g}/\text{L}$.
- SOIL AND GROUNDWATER DATA REPRESENTED BY MOST RECENT, SHALLOWEST, AND NEARBY SAMPLES, WHERE AVAILABLE.

(a) EXCEEDS CRITERIA IDENTIFIED IN PARENTHESIS (SEE TABLE 4)

figure B.2
 BUILDING SPECIFIC CONCENTRATIONS IN AIR, SOIL, AND GROUNDWATER
 BUILDING 326
 VAPOR INVESTIGATION
 Occidental Chemical Corporation, Tacoma, Washington



NOT TO SCALE

LEGEND

Sub-Slab Probe-5	4/20/2013	
Tetrachloroethene	3600	
Trichloroethene	1500	

- NOTES:**
- AIR ANALYTICAL DATA REPORTED IN $\mu\text{g}/\text{m}^3$
 - GROUNDWATER ANALYTICAL DATA REPORTED IN $\mu\text{g}/\text{L}$.
 - SOIL AND GROUNDWATER DATA REPRESENTED BY MOST RECENT, SHALLOWEST, AND NEARBY SAMPLES, WHERE AVAILABLE.

figure B.3
 BUILDING SPECIFIC CONCENTRATIONS IN AIR, SOIL, AND GROUNDWATER
 BUILDING 407
 VAPOR INVESTIGATION
 Occidental Chemical Corporation, Tacoma, Washington



Indoor Air-11	4/26/2013	7/1/2013
1,1,1-Trichloroethane	0.024 J	0.050 U
1,2,4-Trimethylbenzene	0.60 J	1.9
1,4-Dichlorobenzene	0.13 J	0.69
Benzene	0.63(f)	0.64(f)
Carbon tetrachloride	0.40	-
Chloroform (Trichloromethane)	0.082 J	-
cis-1,2-Dichloroethene	0.020 J	-
Ethylbenzene	1.7	14(a)
m&p-Xylenes	6.9	61 J
Naphthalene	0.23	-
o-Xylene	2.3	21 J
Styrene	0.34 J	2.0
Tetrachloroethene	0.18	0.37
Toluene	21	28 J
trans-1,2-Dichloroethene	0.034 J	-
Trichloroethene	0.10	0.12
Vinyl chloride	0.011 J	-
Xylenes (total)	9.2	82 J(g)

Outside Air-11B	4/26/2013	Indoor Air-12	4/20/2013	7/1/2013
1,1,1-Trichloroethane	0.025 J	1,1,1-Trichloroethane	0.032 J	0.050 U
1,2,4-Trimethylbenzene	0.42 J	1,2,4-Trimethylbenzene	1.3	1.6
1,4-Dichlorobenzene	0.15 J	1,3,5-Trimethylbenzene	0.39 J	-
Benzene	0.49	1,4-Dichlorobenzene	5.4(a)	2.2(a)
Carbon tetrachloride	0.45	Benzene	0.71(f)	0.61(f)
Chloroform (Trichloromethane)	0.080 J	Carbon tetrachloride	0.44(f)	-
cis-1,2-Dichloroethene	0.054	Chloroform (Trichloromethane)	0.096 J	-
Ethylbenzene	0.96	Ethylbenzene	4.7	22 J(a)
m&p-Xylenes	3.8	m&p-Xylenes	20	89 J
Naphthalene	0.056 J	Naphthalene	0.17 J	-
o-Xylene	1.0	o-Xylene	5.0	32 J
Tetrachloroethene	0.12 J	Styrene	0.32 J	0.93
Toluene	5.9	Tetrachloroethene	1.5	0.24
Trichloroethene	0.068	Toluene	55	8.4
Vinyl chloride	0.017 J	Trichloroethene	0.34	0.049
Xylenes (total)	4.8	Xylenes (total)	25	121 J(g)

Indoor Air-23	7/1/2013
1,2,4-Trimethylbenzene	2.9
1,4-Dichlorobenzene	87 J(a)
Benzene	1.2(f)
Ethylbenzene	30 J(a)
m&p-Xylenes	100 J
o-Xylene	43 J
Styrene	1.3
Tetrachloroethene	0.43
Toluene	28 J
Trichloroethene	0.046
Xylenes (total)	143 J(g)

Indoor Air-27	7/1/2013
1,2,4-Trimethylbenzene	2.1
1,4-Dichlorobenzene	26 J(a)
Benzene	0.78(f)
Ethylbenzene	26 J(a)
m&p-Xylenes	100 J
o-Xylene	40 J
Styrene	1.3
Tetrachloroethene	0.31
Toluene	11
Xylenes (total)	140 J(g)

Sub-Slab Probe-11	4/25/2013	6/25/2013
1,1,1-Trichloroethane	0.50	0.66
1,1-Dichloroethene	0.039 U	0.028 J
1,2,4-Trimethylbenzene	0.039 U	0.058
1,4-Dichlorobenzene	0.039 U	0.10
Benzene	0.12 U	0.13
Carbon tetrachloride	0.66	0.79
Chloroform (Trichloromethane)	0.049 J	0.15 J
cis-1,2-Dichloroethene	0.039 U	0.060
Ethylbenzene	0.027 J	0.13 J
m&p-Xylenes	0.087 J	0.42
Methylene chloride	0.77 U	0.13 J
Naphthalene	0.15 U	0.31
o-Xylene	0.030 J	0.25
Styrene	0.77 U	0.43 J
Tetrachloroethene	3.2	5.0
Toluene	1.2	0.33
trans-1,2-Dichloroethene	0.039 U	0.063
Trichloroethene	0.27	0.45
Vinyl chloride	0.039 U	0.018 J
Xylenes (total)	0.117 J	0.67

Sub-Slab Probe-12	4/19/2013	6/26/2013
1,1,1-Trichloroethane	4.2	4.3
1,1-Dichloroethene	0.058	0.057
1,2,4-Trimethylbenzene	0.041 U	0.062
1,4-Dichlorobenzene	0.13 J	0.12
Benzene	0.12	0.10 J
Carbon tetrachloride	0.16	0.10
Chloroform (Trichloromethane)	0.070 J	0.12 J
cis-1,2-Dichloroethene	0.041 U	0.051
Ethylbenzene	0.34 J	0.12 J
Hexachlorobutadiene	0.89	0.020 J
m&p-Xylenes	1.4	0.33
Methylene chloride	0.82 U	0.17
Naphthalene	0.092 J	0.18
o-Xylene	0.40 J	0.18
Tetrachloroethene	27	30
Toluene	5.0	0.17
trans-1,2-Dichloroethene	0.041 U	0.053
Trichloroethene	0.37	0.30
Vinyl chloride	0.041 U	0.017 J
Xylenes (total)	1.8 J	0.51

Groundwater-61C-25	7/17/2012
1,1,2,2-Tetrachloroethane	0.50 U
1,1-Dichloroethene	0.51
Benzene	0.070 J
Carbon tetrachloride	0.50 U
Chloroform (Trichloromethane)	0.30 J
cis-1,2-Dichloroethene	2.3
Ethylbenzene	0.070 J
m&p-Xylenes	0.31 J
Methylene chloride	0.15 J
o-Xylene	0.19 J
Tetrachloroethene	0.56
Toluene	0.15 J
trans-1,2-Dichloroethene	0.24 J
Trichloroethene	5.9
Vinyl chloride	1.1

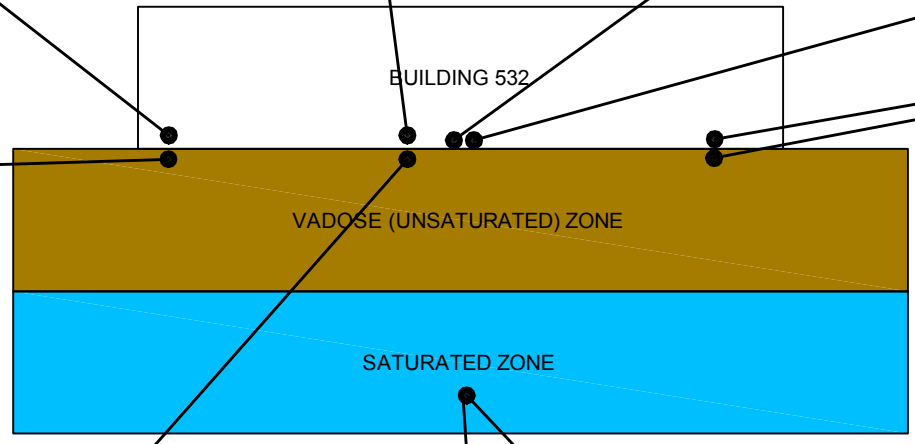
Groundwater-78C-25	7/19/2012
1,1,2,2-Tetrachloroethane	0.50 U
1,1-Dichloroethene	0.50 U
Benzene	0.50 U
Carbon tetrachloride	0.50 U
Chloroform (Trichloromethane)	0.50 U
cis-1,2-Dichloroethene	1.5
Ethylbenzene	0.070 J
m&p-Xylenes	0.12 J
Methylene chloride	2.0 U
o-Xylene	0.50 U
Tetrachloroethene	0.50 U
Toluene	0.49 J
trans-1,2-Dichloroethene	0.50 U
Trichloroethene	0.50 U
Vinyl chloride	2.4

Outside Air-11C	7/1/2013
1,2,4-Trimethylbenzene	0.49
1,4-Dichlorobenzene	0.050
Benzene	0.58
Ethylbenzene	16 J
m&p-Xylenes	67 J
o-Xylene	23 J
Styrene	0.69
Tetrachloroethene	0.084
Toluene	1.7
Xylenes (total)	90 J

Sub-Slab Probe-13	4/19/2013	6/26/2013
1,1,1-Trichloroethane	24	23
1,1-Dichloroethene	0.31	0.29
1,4-Dichlorobenzene	0.046	0.066
Benzene	0.13 U	0.10 J
Carbon tetrachloride	0.064	0.062
Chloroform (Trichloromethane)	0.045 J	0.059 J
Ethylbenzene	0.078 J	0.11 J
Hexachlorobutadiene	0.022 J	0.036 U
m&p-Xylenes	0.33	0.43
Methylene chloride	0.86 UJ	0.035 J
Naphthalene	0.85	0.30
o-Xylene	0.087 J	0.28
Tetrachloroethene	20	27
Toluene	1.2	0.17
Trichloroethene	24(h,i)	27(h,i)
Xylenes (total)	0.417 J	0.71

Indoor Air-13	4/20/2013	7/1/2013
1,1,1-Trichloroethane	0.034 J	0.050 U
1,2,4-Trimethylbenzene	1.1	1.6
1,3,5-Trimethylbenzene	0.36 J	-
1,4-Dichlorobenzene	1.6(a)	2.2(a)
Benzene	0.74(f)	0.86(f)
Carbon tetrachloride	0.45(f)	-
Chloroform (Trichloromethane)	0.078 J	-
Ethylbenzene	5.1(a)	27 J(a)
m&p-Xylenes	22	100 J
Naphthalene	0.20	-
o-Xylene	5.6	40 J
Styrene	0.28 J	1.2
Tetrachloroethene	1.8	0.19
Toluene	59	19 J
Trichloroethene	0.86(f)	0.076
Xylenes (total)	27.6	140 J(g)

Outside Air-11	4/20/2013
1,1,1-Trichloroethane	0.023 J/0.023 J
1,1,2-Trichloroethane	0.027 J/0.14 U
1,1-Dichloroethene	0.013 J/0.035 U
1,2,4-Trimethylbenzene	0.026 J/0.035 U
1,4-Dichlorobenzene	0.060 J/0.039 J
Benzene	0.29/0.34
Carbon tetrachloride	0.39/0.46
Chloroform (Trichloromethane)	0.083 J/0.071 J
cis-1,2-Dichloroethene	0.046 J/0.035 UJ
Ethylbenzene	0.22 J/0.26 J
m&p-Xylenes	0.86/0.99
Naphthalene	0.073 J/0.070 J
o-Xylene	0.27 J/0.31 J
Tetrachloroethene	0.16 J/0.062 J
Toluene	1.4/1.9
trans-1,2-Dichloroethene	0.043 J/0.035 UJ
Trichloroethene	0.085 J/0.023 J
Vinyl chloride	0.014 J/0.035 U
Xylenes (total)	1.13 J/1.3 J



NOT TO SCALE

LEGEND

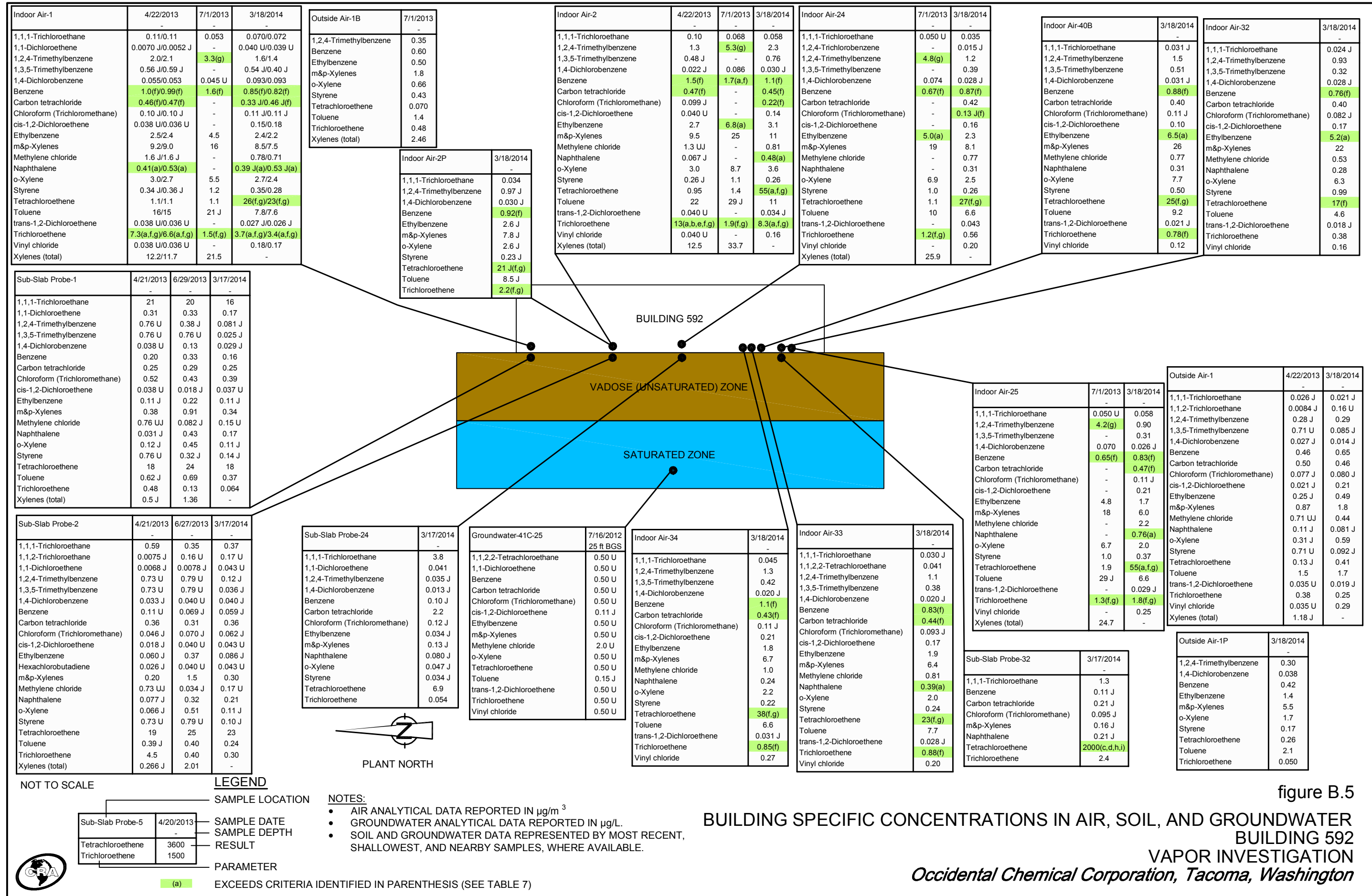
Sub-Slab Probe-5	4/20/2013	3600	SAMPLE LOCATION
Tetrachloroethene	-	1500	SAMPLE DATE
Trichloroethene	-	-	SAMPLE DEPTH
-	-	-	RESULT
-	-	-	PARAMETER

NOTES:

- AIR ANALYTICAL DATA REPORTED IN $\mu\text{g}/\text{m}^3$
- GROUNDWATER ANALYTICAL DATA REPORTED IN $\mu\text{g}/\text{L}$.
- SOIL AND GROUNDWATER DATA REPRESENTED BY MOST RECENT, SHALLOWEST, AND NEARBY SAMPLES, WHERE AVAILABLE.

(a) EXCEEDS CRITERIA IDENTIFIED IN PARENTHESIS (SEE TABLE 6)

figure B.4
 BUILDING SPECIFIC CONCENTRATIONS IN AIR, SOIL, AND GROUNDWATER
 BUILDING 532
 VAPOR INVESTIGATION
 Occidental Chemical Corporation, Tacoma, Washington





PLANT NORTH

Indoor Air-5	4/21/2013	7/1/2013	3/13/2014
1,1,1-Trichloroethane	0.028 J	0.050 U	0.026 J
1,1,2-Trichloroethane	0.0051 J	-	0.15 U
1,2,4-Trimethylbenzene	1.2	1.8	0.96
1,3,5-Trimethylbenzene	0.33 J	-	0.28
1,4-Dichlorobenzene	0.037 U	0.062	0.031 J
Benzene	0.75(f)	0.56(f)	1.2(f)
Carbon tetrachloride	0.47(f)	-	0.47(f)
Chloroform (Trichloromethane)	0.078 J	-	0.11 J
cis-1,2-Dichloroethene	0.037 U	-	0.056
Ethylbenzene	0.92	2.1	1.5
m&p-Xylenes	3.1	7.0	4.9
Methylene chloride	0.74 UJ	-	0.57
Naphthalene	0.20	-	0.11 J
o-Xylene	1.1	2.7	1.7
Styrene	0.28 J	1.8	0.43
Tetrachloroethene	1.4	1.0	1.1
Toluene	3.5	5.2	6.6
trans-1,2-Dichloroethene	0.037 U	-	0.0093 J
Trichloroethene	0.24	0.40	0.24
Vinyl chloride	0.037 U	-	0.026 J
Xylenes (total)	4.2	9.7	-

Indoor Air-5P	3/18/2014
1,1,1-Trichloroethane	0.015
1,2,4-Trimethylbenzene	0.50 J
1,4-Dichlorobenzene	0.036 J
Benzene	0.71(f)
Ethylbenzene	2.4 J
m&p-Xylenes	8.3 J
o-Xylene	2.5 J
Styrene	0.39 J
Tetrachloroethene	1.5 J
Toluene	4.6 J
Trichloroethene	0.27

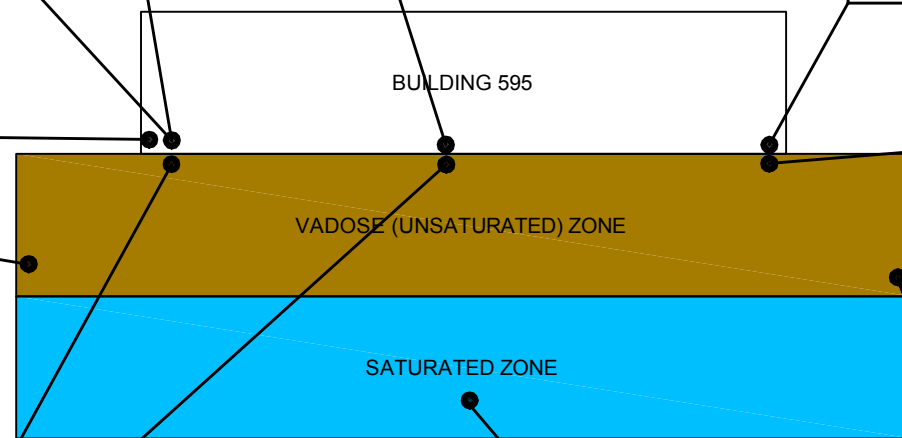
Indoor Air-26	7/1/2013	3/13/2014
1,1,1-Trichloroethane	0.050 U	0.026 J
1,2,4-Trimethylbenzene	0.73	1.2
1,3,5-Trimethylbenzene	-	0.41
1,4-Dichlorobenzene	0.052	0.12
Benzene	0.55(f)	1.3(f)
Carbon tetrachloride	-	0.46(f)
Chloroform (Trichloromethane)	-	0.12 J(f)
cis-1,2-Dichloroethene	-	0.054
Ethylbenzene	1.5	1.5
m&p-Xylenes	5.1	5.5
Methylene chloride	-	0.51
Naphthalene	-	0.19
o-Xylene	2.0	1.8
Styrene	1.8	0.65
Tetrachloroethene	0.55	0.65
Toluene	16 J	6.3
Trichloroethene	0.30	0.21
Vinyl chloride	-	0.021 J
Xylenes (total)	7.1	-

Indoor Air-4	4/21/2013	7/1/2013	3/13/2014
1,1,1-Trichloroethane	0.024 J	0.050 UJ	0.023 J
1,2,4-Trimethylbenzene	1.0	0.72 J	0.83
1,3,5-Trimethylbenzene	0.28 J	-	0.24
1,4-Dichlorobenzene	0.022 J	0.052 J	0.034
Benzene	0.82(f)	0.55 J(f)	1.0(f)
Carbon tetrachloride	0.44(f)	-	0.42
Chloroform (Trichloromethane)	0.083 J	-	0.10 J
cis-1,2-Dichloroethene	0.023 J	-	0.042
Ethylbenzene	0.92	1.6 J	1.1
m&p-Xylenes	3.3	5.6 J	4.0
Methylene chloride	0.26	-	2.1
Naphthalene	0.23	-	0.41(a)
o-Xylene	1.2	2.2 J	1.4
Styrene	0.35 J	1.7 J	0.38
Tetrachloroethene	0.34	0.64 J	0.57
Toluene	3.8	3.5 J	6.3
Trichloroethene	0.089	0.27 J	0.18
Vinyl chloride	0.0040 J	-	0.017 J
Xylenes (total)	4.5	7.8 J	-

Sub-Slab Probe-4	4/20/2013	6/28/2013	3/12/2014
1,1,1-Trichloroethane	8.0	9.8	6.2
Benzene	3.7 U	6.9 J(h)	1.2 J
Carbon tetrachloride	0.15 J	0.50 U	0.86 U
Chloroform (Trichloromethane)	2.2 J(h)	3.2 J(h)	1.8 J(h)
cis-1,2-Dichloroethene	0.97 J	1.7 U	0.71 J
Tetrachloroethene	3800(c,d,h,i)	7400(c,d,h,i)	3000(c,d,h,i)
Toluene	4.9 U	2.6 J	0.59 J
trans-1,2-Dichloroethene	1.2 U	1.9 U	0.23 J
Trichloroethene	1600(c,d,h,i)	2500(c,d,h,i)	1400(c,d,h,i)

Indoor Air-36	3/13/2014
1,1,1-Trichloroethane	0.026 J
1,2,4-Trimethylbenzene	1.0
1,3,5-Trimethylbenzene	0.32
1,4-Dichlorobenzene	0.038
Benzene	1.0(f)
Carbon tetrachloride	0.47(f)
Chloroform (Trichloromethane)	0.11 J
cis-1,2-Dichloroethene	0.055
Ethylbenzene	1.5
m&p-Xylenes	5.2
Methylene chloride	0.46
Naphthalene	0.19
o-Xylene	1.7
Styrene	0.62
Tetrachloroethene	2.6
Toluene	6.3
trans-1,2-Dichloroethene	0.0090 J
Trichloroethene	0.52
Vinyl chloride	0.024 J

Soil-WMUR-10	9/10/2012
1,1,2,2-Tetrachloroethane	1.9 J
1,1-Dichloroethene	5.6 U
Benzene	5.6 U
Carbon tetrachloride	5.6 U
Chloroform (Trichloromethane)	5.6 U
cis-1,2-Dichloroethene	1.1 J
Ethylbenzene	5.6 U
m&p-Xylenes	5.6 U
Methylene chloride	12 U
o-Xylene	5.6 U
Tetrachloroethene	110
Toluene	1.4 J
trans-1,2-Dichloroethene	5.6 U
Trichloroethene	12
Vinyl chloride	5.6 U



Outside Air-4	4/21/2013	7/1/2013	3/13/2014
1,1,1-Trichloroethane	0.023 J	0.050 U	0.028 J
1,2,4-Trimethylbenzene	0.75 U	0.47	0.43
1,3,5-Trimethylbenzene	0.75 U	-	0.13 J
1,4-Dichlorobenzene	0.018 J	0.045 U	1.2
Benzene	0.23	0.70	1.2
Carbon tetrachloride	0.49	-	0.36
Chloroform (Trichloromethane)	0.070 J	-	0.094 J
cis-1,2-Dichloroethene	0.037 U	-	0.057
Ethylbenzene	0.20	1.5	0.91
Hexachlorobutadiene	0.037 U	-	0.020 J
m&p-Xylenes	0.58 J	6.1	3.1
Methylene chloride	0.75 UJ	-	0.56
Naphthalene	0.032 J	-	0.19
o-Xylene	0.18	0.86	0.90
Styrene	0.75 U	0.61	0.33
Tetrachloroethene	0.19	1.0	2.0
Toluene	0.60 J	2.0	2.9
trans-1,2-Dichloroethene	0.037 U	-	0.0097 J
Trichloroethene	0.038	0.24	0.30
Vinyl chloride	0.037 U	-	0.024 J
Xylenes (total)	0.76 J	6.96	-

Sub-Slab Probe-5	4/20/2013	6/28/2013	3/12/2014
1,1,1-Trichloroethane	1.8	2.2 J	1.9
Benzene	3.9 U	5.1 J(h)	1.3
Carbon tetrachloride	1.3 U	0.46 U	1.4
Chloroform (Trichloromethane)	1.4 J(h)	1.9 J(h)	5.4(c,h)
cis-1,2-Dichloroethene	0.51 J	1.6 U	2.1
m&p-Xylenes	5.1 U	1.5 U	0.38 J
Naphthalene	5.1 U	2.9 U	0.17 J
o-Xylene	5.1 U	0.70 U	0.30 J
Tetrachloroethene	3600(c,d,h,i)	5400(c,d,h,i)	1400(c,h,i)
Toluene	5.1 U	2.5 J	0.86 J
trans-1,2-Dichloroethene	1.3 U	1.7 U	1.2
Trichloroethene	1500(c,d,h,i)	1800(c,d,h,i)	940(c,d,h,i)

Sub-Slab Probe-26	3/12/2014
1,1,1-Trichloroethane	1.5
1,1-Dichloroethene	0.50
1,2,4-Trimethylbenzene	0.18 J
Benzene	0.48 J
Carbon tetrachloride	0.12 J
Chloroform (Trichloromethane)	1.1 J
cis-1,2-Dichloroethene	0.37
Ethylbenzene	0.22 J
m&p-Xylenes	0.57 J
Naphthalene	0.12 J
o-Xylene	0.20 J
Tetrachloroethene	2900(c,d,h,i)
Toluene	2.5
trans-1,2-Dichloroethene	0.14 J
Trichloroethene	940(c,d,h,i)

Groundwater-10-24	8/21/2012
1,1,2,2-Tetrachloroethane	2500 U
1,1-Dichloroethene	2500 U
Benzene	2500 U
Carbon tetrachloride	2500 U
Chloroform (Trichloromethane)	2500 U
cis-1,2-Dichloroethene	2500 U
Ethylbenzene	2500 U
m&p-Xylenes	2500 U
Methylene chloride	2100 J
o-Xylene	2500 U
Tetrachloroethene	17000
Toluene	2500 U
trans-1,2-Dichloroethene	2500 U
Trichloroethene	5600
Vinyl chloride	2500 U

Soil-WMUR-04	6/19/2012
1,1,2,2-Tetrachloroethane	1.5 J
1,1-Dichloroethene	5.4 U
Benzene	5.4 U
Carbon tetrachloride	0.36 J
Chloroform (Trichloromethane)	0.35 J
cis-1,2-Dichloroethene	0.60 J
Ethylbenzene	5.4 U
m&p-Xylenes	5.4 U
Methylene chloride	11 U
o-Xylene	5.4 U
Tetrachloroethene	2.4
Toluene	0.21 J
trans-1,2-Dichloroethene	5.4 U
Trichloroethene	30
Vinyl chloride	0.43 J

Soil-WMUR-03	6/17/2012
1,1,2,2-Tetrachloroethane	0.66 U
1,1-Dichloroethene	0.66 U
Benzene	0.66 U
Carbon tetrachloride	0.66 U
Chloroform (Trichloromethane)	0.66 U
cis-1,2-Dichloroethene	0.66 U
Ethylbenzene	0.66 U
m&p-Xylenes	0.66 U
Methylene chloride	0.46 J
o-Xylene	0.66 U
Tetrachloroethene	42
Toluene	0.66 U
trans-1,2-Dichloroethene	0.66 U
Trichloroethene	1.0
Vinyl chloride	0.66 U

Outside Air-5P	3/18/2014
1,1,1-Trichloroethane	0.013
1,2,4-Trimethylbenzene	0.11
1,4-Dichlorobenzene	0.014
Benzene	0.77
Ethylbenzene	1.5
m&p-Xylenes	5.2
o-Xylene	1.4
Styrene	0.14
Tetrachloroethene	0.29
Toluene	1.8
Trichloroethene	0.24

NOT TO SCALE

LEGEND

Sub-Slab Probe-5	4/20/2013	SAMPLE LOCATION
Tetrachloroethene	3600	SAMPLE DATE
Trichloroethene	1500	SAMPLE DEPTH
		RESULT
		PARAMETER

NOTES:

- AIR ANALYTICAL DATA REPORTED IN $\mu\text{g}/\text{m}^3$
- GROUNDWATER ANALYTICAL DATA REPORTED IN $\mu\text{g}/\text{L}$.
- SOIL ANALYTICAL DATA REPORTED IN $\mu\text{g}/\text{kg}$.
- SOIL AND GROUNDWATER DATA REPRESENTED BY MOST RECENT, SHALLOWEST, AND NEARBY SAMPLES, WHERE AVAILABLE.

(a) EXCEEDS CRITERIA IDENTIFIED IN PARENTHESIS (SEE TABLE 8)

figure B.6
 BUILDING SPECIFIC CONCENTRATIONS IN AIR, SOIL, AND GROUNDWATER
 BUILDING 595
 VAPOR INVESTIGATION
 Occidental Chemical Corporation, Tacoma, Washington



PLANT NORTH

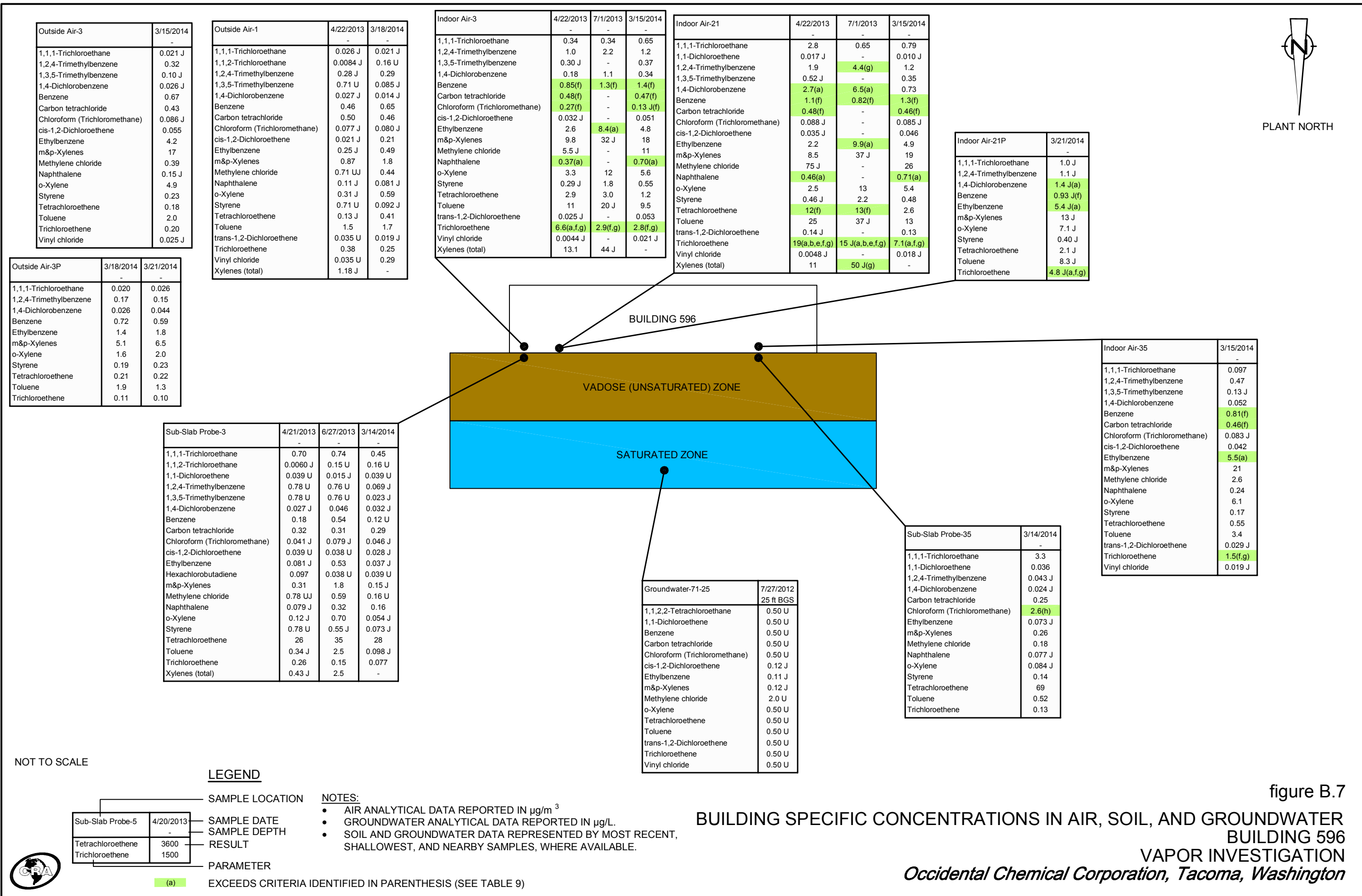


figure B.7
 BUILDING SPECIFIC CONCENTRATIONS IN AIR, SOIL, AND GROUNDWATER
 BUILDING 596
 VAPOR INVESTIGATION
 Occidental Chemical Corporation, Tacoma, Washington