DIVISION OF WASTE MANAGEMENT NON-RESIDENTIAL VAPOR INTRUSION SCREENING LEVELS
JANUARY 2014

Note: The non-residential screening level below or site specific screening concentrations (utilizing site specific attenuation and exposure factors) can be used. In either case the site's remedy must include land use restrictions approved by the Division. For some non-residential structures (such as buildings with basements, or where building characteristics are similar to residential buildings, and building use does not promote high air exchange), the Residential Vapor Vapor Intrusion Screening Level table should be used. It is DWM policy that day care facilities, schools and any other similar structures where children (under 18) are the primary occupants are evaluated as residential use due to the potentially sensitive nature of the exposed population.

CAS #	Contaminant	Groundwater Screening Level (GWSL) ug/L	Sub Slab and Exterior Soil Gas Screening Level (SGSL) ug/m3	Cgw & Csg Tox Basis	Indoor Air and Crawlspace Screening Level (IASL)[1,2] ug/m3					
					Indoor Air/Crawlspace Screening Levels at Target Risk 1.0E-04 (IASL C) to be Used if only One Carcinogen is Present					
		GWSL =IASL (B) x 10^{-03} x 1/Henry's Law Constant x 1/AF	SGSL =IASL (B) x 1/AF		IASL (A)		IASL (B)		IASL (C)	
		Attenuation Factor (AF) = 0.001	Attenuation Factor (AF) = 0.010		TCR = 1.0E-06 THQ = 0.2	Tox Basis	TCR = 1.0E-05 THQ = 0.2	Tox Basis	TCR = 1.0E-04 THQ = 0.2	Tox Basis
75-07-0	Acetaldehyde	2.89E+03	7.88E+02	NC	5.57E+00	C	7.88E+00	NC	7.88E+00	NC
67-64-1	Acetone	1.90E+07	2.72E+06	NC	2.72E+04	NC	2.72E+04	NC	2.72E+04	NC
75-86-5	Acetone Cyanohydrin	3.30E+03	1.75E+02	NC	1.75E+00	NC	1.75E+00	NC	1.75E+00	NC
75-05-8	Acetonitrile	3.73E+04	5.26E+03	NC	5.26E+01	NC	5.26E+01	NC	5.26E+01	NC
107-02-8	Acrolein	3.51E+00	1.75E+00	NC	1.75E-02	NC	1.75E-02	NC	1.75E-02	NC
107-13-1	Acrylonitrile	3.11E+02	1.75E+02	NC	1.80E-01	C	1.75E+00	NC	1.75E+00	NC
107-05-1	Allyl Chloride	1.95E+00	8.76E+01	NC	8.76E-01	NC	8.76E-01	NC	8.76E-01	NC
75-85-4	**Amyl Alcohol, tert-**	**4.66E+03**	**2.63E+02**	**NC**	**2.63E+00**	**NC**	**2.63E+00**	**NC**	**2.63E+00**	**NC**
11104-28-2	Aroclor 1221	7.15E+00	2.15E+01	C	2.15E-02	C	2.15E-01	C	2.15E+00	C
11141-16-5	Aroclor 1232	7.15E+00	2.15E+01	C	2.15E-02	C	2.15E-01	C	2.15E+00	C
103-33-3	Azobenzene	Above Solublity Limit	3.96E+02	C	3.96E-01	C	3.96E+00	C	3.96E+01	C
71-43-2	Benzene	6.93E+01	1.57E+03	C	1.57E+00	C	1.57E+01	C	2.63E+01	NC
100-44-7	Benzyl Chloride	5.20E+01	8.76E+01	NC	2.50E-01	C	8.76E-01	NC	8.76E-01	NC
92-52-4	Biphenyl, 1,1'-	2.78E+01	3.50E+01	NC	3.50E-01	NC	3.50E-01	NC	3.50E-01	NC
108-60-1	Bis(2-chloro-1-methylethyl) ether	4.04E+03	1.23E+03	C	1.23E+00	C	1.23E+01	C	1.23E+02	C
111-44-4	Bis(2-chloroethyl)ether	5.35E+02	3.72E+01	C	3.72E-02	C	3.72E-01	C	3.72E+00	C
542-88-1	Bis(chloromethyl)ether	1.11E-02	1.98E-01	C	1.98E-04	C	1.98E-03	C	1.98E-02	C
107-04-0	Bromo-2-chloroethane, 1-	5.50E+00	2.04E+01	C	2.04E-02	C	2.04E-01	C	2.04E+00	C
108-86-1	Bromobenzene	5.21E+02	5.26E+03	NC	5.26E+01	NC	5.26E+01	NC	5.26E+01	NC
74-97-5	Bromochloromethane	5.87E+02	3.50E+03	NC	3.50E+01	NC	3.50E+01	NC	3.50E+01	NC
75-27-4	Bromodichloromethane	3.83E+01	3.31E+02	C	3.31E-01	C	3.31E+00	C	3.31E+01	C
74-83-9	Bromomethane	1.46E+01	4.38E+02	NC	4.38E+00	NC	4.38E+00	NC	4.38E+00	NC
106-99-0	Butadiene, 1,3-	5.82E-01	1.75E+02	NC	4.09E-01	C	1.75E+00	NC	1.75E+00	NC
75-15-0	Carbon Disulfide	1.04E+03	6.13E+04	NC	6.13E+02	NC	6.13E+02	NC	6.13E+02	NC
56-23-5	Carbon Tetrachloride	1.81E+01	2.04E+03	C	2.04E+00	C	2.04E+01	C	8.76E+01	NC
75-68-3	Chloro-1,1-difluoroethane, 1-	1.82E+04	4.38E+06	NC	4.38E+04	NC	4.38E+04	NC	4.38E+04	NC
126-99-8	Chloro-1,3-butadiene, 2-	1.78E-01	4.09E+01	C	4.09E-02	C	4.09E-01	C	4.09E+00	C
108-90-7	Chlorobenzene	3.45E+02	4.38E+03	NC	4.38E+01	NC	4.38E+01	NC	4.38E+01	NC

1. Based on the November 2013 USEPA Regional Screening Level Target Air Concentrations and the USEPA VI Screening Level Calculator.
2. TCR = Target Cancer Risk; THQ=Target Hazard Quotient; C= Carcinogenic; N = Non-Carcinognic; M = Mutagenic

Note: The non-residential screening level below or site specific screening concentrations (utilizing site specific attenuation and exposure factors) can be used. In either case the site's remedy must include land use restrictions approved by the Division. For some non-residential structures (such as buildings with basements, or where building characteristics are similar to residential buildings, and building use does not promote high air exchange), the Residential Vapor Vapor Intrusion Screening Level table should be used. It is DWM policy that day care facilities, schools and any other similar structures where children (under 18) are the primary occupants are evaluated as residential use due to the potentially sensitive nature of the exposed population.

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					Indoor Air/Crawlspace Screening Levels at Target Risk 1.0E-04 (IASL C) to be Used if only One Carcinogen is Present					
		GWSL =IASL (B) x 10^{-03} x 1/Henry's Law Constant x 1/AF	SGSL =IASL (B) x 1/AF		IASL (A)		IASL (B)		IASL (C)	
		Attenuation Factor (AF) = 0.001	Attenuation Factor (AF) = 0.010		TCR = 1.0E-06 THQ = 0.2	Tox Basis	TCR = 1.0E-05 THQ = 0.2	Tox Basis	TCR = 1.0E-04 THQ = 0.2	Tox Basis
98-56-6	Chlorobenzotrifluoride, 4-	1.85E+02	2.63E+04	NC	2.63E+02	NC	2.63E+02	NC	2.63E+02	NC
75-45-6	Chlorodifluoromethane	2.64E+04	4.38E+06	NC	4.38E+04	NC	4.38E+04	NC	4.38E+04	NC
67-66-3	Chloroform	3.55E+01	5.33E+02	C	5.33E-01	C	5.33E+00	C	5.33E+01	C
74-87-3	Chloromethane	2.19E+02	7.88E+03	NC	7.88E+01	NC	7.88E+01	NC	7.88E+01	NC
107-30-2	Chloromethyl Methyl Ether	1.43E+01	1.78E+01	C	1.78E-02	C	1.78E-01	C	1.78E+00	C
76-06-2	Chloropicrin	4.18E+00	3.50E+01	NC	3.50E-01	NC	3.50E-01	NC	3.50E-01	NC
98-82-8	Cumene	7.45E+02	3.50E+04	NC	3.50E+02	NC	3.50E+02	NC	3.50E+02	NC
57-12-5	Cyanide (CN-)	1.29E+02	7.01E+01	NC	7.01E-01	NC	7.01E-01	NC	7.01E-01	NC
110-82-7	Cyclohexane	8.57E+02	5.26E+05	NC	5.26E+03	NC	5.26E+03	NC	5.26E+03	NC
110-83-8	Cyclohexene	4.71E+02	8.76E+04	NC	8.76E+02	NC	8.76E+02	NC	8.76E+02	NC
96-12-8	Dibromo-3-chloropropane, 1,2-	3.40E+00	2.04E+00	C	2.04E-03	C	2.04E-02	C	1.75E-01	NC
124-48-1	Dibromochloromethane	1.42E+02	4.54E+02	C	4.54E-01	C	4.54E+00	C	4.54E+01	C
106-93-4	Dibromoethane, 1,2-	7.69E+00	2.04E+01	C	2.04E-02	C	2.04E-01	C	2.04E+00	C
74-95-3	Dibromomethane (Methylene Bromide)	1.04E+02	3.50E+02	NC	3.50E+00	NC	3.50E+00	NC	3.50E+00	NC
764-41-0	Dichloro-2-butene, 1,4-	1.08E+00	2.92E+00	C	2.92E-03	C	2.92E-02	C	2.92E-01	C
1476-11-5	Dichloro-2-butene, cis-1,4-	1.08E+00	2.92E+00	C	2.92E-03	C	2.92E-02	C	2.92E-01	C
110-57-6	Dichloro-2-butene, trans-1,4-	1.08E+00	2.92E+00	C	2.92E-03	C	2.92E-02	C	2.92E-01	C
95-50-1	Dichlorobenzene, 1,2-	2.23E+03	1.75E+04	NC	1.75E+02	NC	1.75E+02	NC	1.75E+02	NC
106-46-7	Dichlorobenzene, 1,4-	1.13E+02	1.11E+03	C	1.11E+00	C	1.11E+01	C	1.11E+02	C
75-71-8	Dichlorodifluoromethane	6.25E+00	8.76E+03	NC	8.76E+01	NC	8.76E+01	NC	8.76E+01	NC
75-34-3	Dichloroethane, 1,1-	3.34E+02	7.67E+03	C	7.67E+00	C	7.67E+01	C	7.67E+02	C
107-06-2	Dichloroethane, 1,2-	9.78E+01	4.72E+02	C	4.72E-01	C	4.72E+00	C	6.13E+00	NC
75-35-4	Dichloroethylene, 1,1-	1.64E+02	1.75E+04	NC	1.75E+02	NC	1.75E+02	NC	1.75E+02	NC
156-60-5	Dichloroethylene, 1,2-trans-	3.15E+02	5.26E+03	NC	5.26E+01	NC	5.26E+01	NC	5.26E+01	NC
78-87-5	Dichloropropane, 1,2-	3.04E+01	3.50E+02	NC	1.23E+00	C	3.50E+00	NC	3.50E+00	NC
542-75-6	Dichloropropene, 1,3-	1.21E+02	1.75E+03	NC	3.07E+00	C	1.75E+01	NC	1.75E+01	NC
77-73-6	Dicyclopentadiene	2.40E+00	6.13E+02	NC	6.13E+00	NC	6.13E+00	NC	6.13E+00	NC

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75-37-6	Difluoroethane, 1,1-	4.22E+04	3.50E+06	NC	3.50E+04	NC	3.50E+04	NC	3.50E+04	NC
94-58-6	Dihydrosafrole	1.40E+00	9.43E+02	C	9.43E-01	C	9.43E+00	C	9.43E+01	C
108-20-3	Diisopropyl Ether	5.86E+03	6.13E+04	NC	6.13E+02	NC	6.13E+02	NC	6.13E+02	NC
513-37-1	Dimethylvinylchloride	2.85E+00	9.43E+02	C	9.43E-01	C	9.43E+00	C	9.43E+01	C
106-89-8	Epichlorohydrin	7.05E+02	8.76E+01	NC	8.76E-01	NC	8.76E-01	NC	8.76E-01	NC
106-88-7	Epoxybutane, 1,2-	2.38E+03	1.75E+03	NC	1.75E+01	NC	1.75E+01	NC	1.75E+01	NC
141-78-6	**Ethyl Acetate**	**1.12E+04**	**6.13E+03**	**NC**	**6.13E+01**	**NC**	**6.13E+01**	**NC**	**6.13E+01**	**NC**
75-00-3	Ethyl Chloride	1.93E+04	8.76E+05	NC	8.76E+03	NC	8.76E+03	NC	8.76E+03	NC
97-63-2	Ethyl Methacrylate	1.12E+04	2.63E+04	NC	2.63E+02	NC	2.63E+02	NC	2.63E+02	NC
100-41-4	Ethylbenzene	1.52E+02	4.91E+03	C	4.91E+00	C	4.91E+01	C	4.91E+02	C
75-21-8	Ethylene Oxide	2.30E+02	1.39E+02	C	1.39E-01	C	1.39E+00	C	1.39E+01	C
151-56-4	Ethyleneimine	1.31E+01	6.45E-01	C	6.45E-04	C	6.45E-03	C	6.45E-02	C
822-06-0	Hexamethylene Diisocyanate, 1,6-	4.46E+00	8.76E-01	NC	8.76E-03	NC	8.76E-03	NC	8.76E-03	NC
110-54-3	Hexane, N-	8.33E+00	6.13E+04	NC	6.13E+02	NC	6.13E+02	NC	6.13E+02	NC
591-78-6	Hexanone, 2-	6.90E+03	2.63E+03	NC	2.63E+01	NC	2.63E+01	NC	2.63E+01	NC
74-90-8	Hydrogen Cyanide	1.29E+02	7.01E+01	NC	7.01E-01	NC	7.01E-01	NC	7.01E-01	NC
7439-97-6	Mercury (elemental)	5.63E-01	2.63E+01	NC	2.63E-01	NC	2.63E-01	NC	2.63E-01	NC
126-98-7	Methacrylonitrile	2.60E+03	2.63E+03	NC	2.63E+01	NC	2.63E+01	NC	2.63E+01	NC
96-33-3	Methyl Acrylate	2.15E+03	1.75E+03	NC	1.75E+01	NC	1.75E+01	NC	1.75E+01	NC
78-93-3	Methyl Ethyl Ketone (2-Butanone)	1.88E+06	4.38E+05	NC	4.38E+03	NC	4.38E+03	NC	4.38E+03	NC
108-10-1	Methyl Isobutyl Ketone (4-methyl-2-pentanone)	4.66E+05	2.63E+05	NC	2.63E+03	NC	2.63E+03	NC	2.63E+03	NC
624-83-9	Methyl Isocyanate	2.31E+01	8.76E+01	NC	8.76E-01	NC	8.76E-01	NC	8.76E-01	NC
80-62-6	Methyl Methacrylate	4.70E+04	6.13E+04	NC	6.13E+02	NC	6.13E+02	NC	6.13E+02	NC
25013-15-4	Methyl Styrene (Mixed Isomers)	2.85E+02	3.50E+03	NC	3.50E+01	NC	3.50E+01	NC	3.50E+01	NC
1634-04-4	Methyl tert-Butyl Ether (MTBE)	1.97E+04	4.72E+04	C	4.72E+01	C	4.72E+02	C	2.63E+03	NC
75-09-2	Methylene Chloride	3.96E+03	5.26E+04	NC	5.26E+02	NC	5.26E+02	NC	5.26E+02	NC
91-20-3	Naphthalene	1.46E+02	2.63E+02	NC	3.61E-01	C	2.63E+00	NC	2.63E+00	NC

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		Attenuation Factor (AF) = 0.001	Attenuation Factor (AF) = 0.010		TCR = 1.0E-06 THQ = 0.2	Tox Basis	TCR = 1.0E-05 THQ = 0.2	Tox Basis	TCR = 1.0E-04 THQ = 0.2	Tox Basis
98-95-3	Nitrobenzene	3.13E+03	3.07E+02	C	3.07E-01	C	3.07E+00	C	7.88E+00	NC
75-52-5	**Nitromethane**	**3.75E+03**	**4.38E+02**	**NC**	**1.39E+00**	**C**	**4.38E+00**	**NC**	**4.38E+00**	**NC**
79-46-9	Nitropropane, 2-	9.34E+00	4.54E+00	C	4.54E-03	C	4.54E-02	C	4.54E-01	C
924-16-3	Nitroso-di-N-butylamine, N-	1.42E+02	7.67E+00	C	7.67E-03	C	7.67E-02	C	7.67E-01	C
111-84-2	**Nonane, n-**	**1.26E-01**	**1.75E+03**	**NC**	**1.75E+01**	**NC**	**1.75E+01**	**NC**	**1.75E+01**	**NC**
109-66-0	Pentane, n-	1.71E+01	8.76E+04	NC	8.76E+02	NC	8.76E+02	NC	8.76E+02	NC
75-44-5	Phosgene	3.85E-01	2.63E+01	NC	2.63E-01	NC	2.63E-01	NC	2.63E-01	NC
123-38-6	Propionaldehyde	2.34E+03	7.01E+02	NC	7.01E+00	NC	7.01E+00	NC	7.01E+00	NC
103-65-1	Propyl benzene	2.04E+03	8.76E+04	NC	8.76E+02	NC	8.76E+02	NC	8.76E+02	NC
115-07-1	Propylene	3.28E+02	2.63E+05	NC	2.63E+03	NC	2.63E+03	NC	2.63E+03	NC
75-56-9	Propylene Oxide	9.24E+03	2.63E+03	NC	3.31E+00	C	2.63E+01	NC	2.63E+01	NC
100-42-5	Styrene	7.79E+03	8.76E+04	NC	8.76E+02	NC	8.76E+02	NC	8.76E+02	NC
630-20-6	Tetrachloroethane, 1,1,1,2-	1.62E+02	1.66E+03	C	1.66E+00	C	1.66E+01	C	1.66E+02	C
79-34-5	Tetrachloroethane, 1,1,2,2-	1.41E+02	2.11E+02	C	2.11E-01	C	2.11E+00	C	2.11E+01	C
127-18-4	Tetrachloroethylene	4.84E+01	3.50E+03	NC	3.50E+01	NC	3.50E+01	NC	3.50E+01	NC
811-97-2	Tetrafluoroethane, 1,1,1,2-	3.43E+04	7.01E+06	NC	7.01E+04	NC	7.01E+04	NC	7.01E+04	NC
109-99-9	Tetrahydrofuran	6.08E+05	1.75E+05	NC	1.75E+03	NC	1.75E+03	NC	1.75E+03	NC
108-88-3	Toluene	1.61E+04	4.38E+05	NC	4.38E+03	NC	4.38E+03	NC	4.38E+03	NC
NA (TPH-ApL)	**Total Petroleum Hydrocarbons (Aliphatic Low)**	**7.14E+00**	**5.26E+04**	**NC**	**6.45E+01**	**C**	**5.26E+02**	**NC**	**5.26E+02**	**NC**
NA (TPH-ApM)	**Total Petroleum Hydrocarbons (Aliphatic Medium)**	**1.96E-01**	**2.73E+03**	**C**	**2.73E+00**	**C**	**2.73E+01**	**C**	**8.76E+01**	**NC**
NA (TPH-ArL)	**Total Petroleum Hydrocarbons (Aromatic Low)**	**6.93E+01**	**1.57E+03**	**C**	**1.57E+00**	**C**	**1.57E+01**	**C**	**2.63E+01**	**NC**
NA (TPH-ArM)	**Total Petroleum Hydrocarbons (Aromatic Medium)**	**1.34E+02**	**2.63E+02**	**NC**	**2.63E+00**	**NC**	**2.63E+00**	**NC**	**2.63E+00**	**NC**
76-13-1	Trichloro-1,2,2-trifluoroethane, 1,1,2-	1.22E+03	2.63E+06	NC	2.63E+04	NC	2.63E+04	NC	2.63E+04	NC
120-82-1	Trichlorobenzene, 1,2,4-	3.02E+01	1.75E+02	NC	1.75E+00	NC	1.75E+00	NC	1.75E+00	NC

1. Based on the November 2013 USEPA Regional Screening Level Target Air Concentrations and the USEPA VI Screening Level Calculator.
2. TCR = Target Cancer Risk; THQ=Target Hazard Quotient; C= Carcinogenic; N = Non-Carcinognic; M = Mutagenic

Note: The non-residential screening level below or site specific screening concentrations (utilizing site specific attenuation and exposure factors) can be used. In either case the site's remedy must include land use restrictions approved by the Division. For some non-residential structures (such as buildings with basements, or where building characteristics are similar to residential buildings, and building use does not promote high air exchange), the Residential Vapor Vapor Intrusion Screening Level table should be used. It is DWM policy that day care facilities, schools and any other similar structures where children (under 18) are the primary occupants are evaluated as residential use due to the potentially sensitive nature of the exposed population.

CAS #	Contaminant	Groundwater Screening Level (GWSL) ug/L	Sub Slab and Exterior Soil Gas Screening Level (SGSL) ug/m3	Cgw & Csg Tox Basis	Indoor Air and Crawlspace Screening Level (IASL)[1,2] ug/m3					
					Indoor Air/Crawlspace Screening Levels at Target Risk 1.0E-04 (IASL C) to be Used if only One Carcinogen is Present					
		GWSL =IASL (B) x 10^{-03} x 1/Henry's Law Constant x 1/AF	SGSL =IASL (B) x 1/AF		IASL (A)		IASL (B)		IASL (C)	
		Attenuation Factor (AF) = 0.001	Attenuation Factor (AF) = 0.010		TCR = 1.0E-06 THQ = 0.2	Tox Basis	TCR = 1.0E-05 THQ = 0.2	Tox Basis	TCR = 1.0E-04 THQ = 0.2	Tox Basis
71-55-6	Trichloroethane, 1,1,1-	6.23E+03	4.38E+05	NC	4.38E+03	NC	4.38E+03	NC	4.38E+03	NC
79-00-5	Trichloroethane, 1,1,2-	5.20E+00	1.75E+01	NC	1.75E-01	NC	1.75E-01	NC	1.75E-01	NC
79-01-6	Trichloroethylene	4.35E+00	1.75E+02	NC	1.75E+00	NC	1.75E+00	NC	1.75E+00	NC
75-69-4	Trichlorofluoromethane	1.55E+02	6.13E+04	NC	6.13E+02	NC	6.13E+02	NC	6.13E+02	NC
96-18-4	Trichloropropane, 1,2,3-	1.87E+01	2.63E+01	NC	2.63E-01	NC	2.63E-01	NC	2.63E-01	NC
96-19-5	Trichloropropene, 1,2,3-	3.65E-01	2.63E+01	NC	2.63E-01	NC	2.63E-01	NC	2.63E-01	NC
121-44-8	Triethylamine	1.01E+03	6.13E+02	NC	6.13E+00	NC	6.13E+00	NC	6.13E+00	NC
526-73-8	Trimethylbenzene, 1,2,3-	2.46E+01	4.38E+02	NC	4.38E+00	NC	4.38E+00	NC	4.38E+00	NC
95-63-6	Trimethylbenzene, 1,2,4-	2.44E+01	6.13E+02	NC	6.13E+00	NC	6.13E+00	NC	6.13E+00	NC
108-05-4	Vinyl Acetate	8.39E+03	1.75E+04	NC	1.75E+02	NC	1.75E+02	NC	1.75E+02	NC
593-60-2	Vinyl Bromide	5.23E+00	2.63E+02	NC	3.83E-01	C	2.63E+00	NC	2.63E+00	NC
75-01-4	Vinyl Chloride	2.45E+01	2.79E+03	C	2.79E+00	C	2.79E+01	C	8.76E+01	NC
108-38-3	Xylene, m-	2.98E+02	8.76E+03	NC	8.76E+01	NC	8.76E+01	NC	8.76E+01	NC
95-47-6	Xylene, o-	4.14E+02	8.76E+03	NC	8.76E+01	NC	8.76E+01	NC	8.76E+01	NC
106-42-3	Xylene, P-	3.11E+02	8.76E+03	NC	8.76E+01	NC	8.76E+01	NC	8.76E+01	NC
1330-20-7	Xylenes	4.14E+02	8.76E+03	NC	8.76E+01	NC	8.76E+01	NC	8.76E+01	NC

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